

GENERAL NOTES GENERATOR NOTES GENERATOR CLEARANCE SCHEMATICS

SITE SURVEY SITE SURVEY

SITE PLAN & UTILITIES PLAN ENLARGED SITE PLAN ANTENNA PLANS & NOTES NORTH ELEVATION WEST ELEVATION FOUNDATION PLAN & NOTES

ELECTRICAL NOTES & SYMBOLS ELECTRICAL SITE PLAN PANEL SCHEDULE & ONE LINE DIAGRAM GROUNDING PLAN AND DETAILS GROUNDING SCHEMATIC & DETAILS **ELECTRICAL & GROUNDING DETAILS** 



VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

PROJECT INFORMATION SITE NAME

## **DEN WAGON WHEEL**

4087 HARVEST LANE BRIGHTON, CO 80601

### CONSULTANT

11/09/17 CD REVIEW MKC 11/29/17 CLIENT COMMENTS MKC

1st REVIEW ERR 2nd REVIEW SGP

# CHARLES STECKEY



# LITTLETON, COLORADO 80127 OFFICE: 303.932.9974

# **NOT FOR** CONSTRUCTION

## TITLE SHEET

T1.00

<i>(</i> )					
SNOL		REVIATIONS			
PENETRATIONS	ର ଜୁ ଅ	AT CENTERLINE DEGREES DIAMETER	H.M. Horz. Hr. Ht.	HOLLOW METAL HORIZONTAL HOUR HEIGHT	
	A/C APPROX.		ILC INT.	INTEGRATED LOAD CENTER	
	ARCH. A.F.F. A.F.G.	ARCHITECTURAL ABOVE FINISH FLOOR ABOVE FINISH GRADE	L.F. LTE	LINEAR FEET LIMIT TO EXTEND	
ANTENNAS	ALU ATS AWS BBU BCEM MODULE BLDG.	ALCATEL LUCENT AUTOMATIC TRANSFER SWITCH ADVANCED WIRELESS SYSTEM BASE BAND UNIT BASE CHANNEL ELEMENT BUILDING	I MAX. MECH. MFR. MGB MIN. MSDS MTL.	MAXIMUM MECHANICAL MANUFACTURER MAIN GROUND BAR MINIMUM MATERIAL SAFETY DATA SHEET METAL	
F	B.O. CLG.	BOTTOM OF CEILING	MTS N.T.S.	MANUAL TRANSFER SWITCH NOT TO SCALE	
LEASE AREA EXISTING EASEMENT	COL. CONC.		O.C. O.D.	ON CENTER OUTSIDE DIAMETER	
LEASE AREA EXISTING EA	DBL. DIA. DIM. DISC.	DOUBLE DIAMETER DIMENSION DISCONNECT	OVP PCS	OVER VOLTAGE PROTECTION PERSONAL COMMUNICATIONS SERVICE	
LEAS	DN. DWG.	DOWN DRAWING	RAD. R.O.	RADIUS ROUGH OPENING	
	(E) EA. ELEV.	EXISTING EACH ELEVATION	RRH SHTG.	REMOTE RADIO HEAD SHEATHING	
r MENT	ELEC. EQ. EXT.	ELECTRICAL EQUAL EXTERIOR	SIM. SPEC. S.S.	SIMILAR SPECIFICATION STAINLESS STEEL	
SEMENT Y EASEMENT	F.E. FIN. FLR.	FIRE EXTINGUISHER FINISH FLOOR	STL. STRUCT. T.C.	STEEL STRUCTURAL TEMPERATURE CONTROL	
SS/UTILITY EASE CONST./UTILITY	FUT.	FUTURE	TELCO       TELCOMMUNICATIONS         T.O.       TOP OF         TYP.       TYPICAL         U.G.       UNDERGROUND         U.N.O.       UNLESS NOTED OTHERWISE		
access/utility easement gen. const./utility easen	GALV. GEN. GPS	GALVANIZED GENERATOR GLOBAL POSITIONING SYSTEM			
ACCE GEN.	GWB.	GYPSUM WALLBOARD	VERT. V.I.F.	VERTICAL VERIFY IN FIELD	BATTERY SPECIFICATION: (DEKA UNIGY) EACH CELL HAS AN IMMOBILIZE GALLONS EACH. (16) CELLS IN THIS OCCUPAN
	SYM	IBOLS LEGEND	W/	WITH	ELECTROLYTE VOLUME OF 43.2 GALLONS.
2. JNDING		EASEMENT			A. STATIONARY LEAD-ACID BATTERY SYSTEM BATTERY SYSTEMS CONTAINING MORE THAN COMPLY WITH IFC 608. THIS INSTALLATION IS
EQ. Iound				X ENLARGED VIEW	
OVP/ELEC. EQ POWER/GROU		PROPERTY L     WOODEN FEI			CONTRACTOR TO PROVIDE H ADDITIONAL PERMITS FOR BA SYSTEMS PER LOCAL F
VO DO		— X ———— СНАІМ LINK F — ОН ———— (E) OVERHEA			STSTEMS PER LOCAL P
		- OHE (E) OVERHEA		★ .	3 - BATTERY HAZMAT REVIEW
REQ.		— SS ———— (E) SANITARY	SEWER	X SECTION CUT	CONTRACTOR SHALL VERIFY ALL PLANS AND EXIST
MW/FIBER EQ. FIBER		— W — (E) WATER LI — Т (E) TELCO СА		X	THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DISCREPANCIES BEFORE PROCEEDING WITH THE W
MW/FI FIBER		FIBER (E) FIBER CAI		XX.XX EXTERIOR ELEVATION	THESE DRAWINGS ARE TO SCALE WHEN PLOTTED
			AL	X INTERIOR ELEVATION	CALL BEFORE YOU DIG - COLORADO LAW REQUIRES CONSTRUCTION PHASE.
ES		COAX (E) COAX CAE	BLE		THESE DRAWINGS MAY NOT SHOW ALL UNDERGRO CONTRACTOR SHALL EXERCISE EXTREME CARE DU CONSTRUCTION ACTIVITIES.
COAX CABLES		WORK COLOR LEGE	<u>ND</u>		UTILITY NOTIFICATION CENTER OF COLORADO - 1-80
th & COAX	DC PC FIBER				THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILIT REQUIRED FOR THIS INSTALLATION. THE CONTRACT ALL WORK WITH THE OWNER TO ENSURE NO DISRU
BBU/RRH HYBRID &	ANTEI RRH/E PENE				SUBCONTRACTORS SHALL VERIFY ALL PLANS & EXI: THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE EN DISCREPANCIES BEFORE PROCEEDING WITH THE W
	4 - ABBR	EVIATIONS, SYMBOLS	& LEGEN	ND	2 - GENERAL CONTRACTOR NOTES

A UNIGY) EACH CELL HAS AN IMMOBILIZE ELECTROLYTE CAPACITY OF 0.5 ONS EACH. (16) CELLS IN THIS OCCUPANCY RESULTING IN AN AGGREGATE TROLYTE VOLUME OF 43.2 GALLONS.

TATIONARY LEAD-ACID BATTERY SYSTEM AND VALVE-REGULATED LEAD-ACID FERY SYSTEMS CONTAINING MORE THAN 50 GALLONS OF ELECTROLYTE SHALL PLY WITH IFC 608. THIS INSTALLATION IS BELOW 50 GALLONS.

ONTRACTOR TO PROVIDE HAZMAT REPORTING & DDITIONAL PERMITS FOR BATTERY & GENERATOR SYSTEMS PER LOCAL REQUIREMENTS

### FERY HAZMAT REVIEW

OR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON ITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY VCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

AWINGS ARE TO SCALE WHEN PLOTTED ON 11X17 SHEET.

RE YOU DIG - COLORADO LAW REQUIRES 3 WORKING DAYS NOTICE FOR CTION PHASE

AWINGS MAY NOT SHOW ALL UNDERGROUND PIPING AND UTILITIES. THE OR SHALL EXERCISE EXTREME CARE DURING ALL EXCAVATION AND OTHER TION ACTIVITIES

TIFICATION CENTER OF COLORADO - 1-800-922-1987

RACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES AND UTILITY RELOCATIONS FOR THIS INSTALLATION. THE CONTRACTOR WILL SCHEDULE AND COORDINATE WITH THE OWNER TO ENSURE NO DISRUPTION TO OWNERS OPERATIONS.

ACTORS SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON ITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY NCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN. REFER TO BID PACKAGE FOR MORE DATA.

2. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRM THAT THE PROJECT MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/CONSTRUCTION ENGINEER IN WRITING

3. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS

4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

5 THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S, VENDOR'S, & VERIZON WIRELESS SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE NOTIFY CONSTRUCTION ENGINEER.

6. ALL WORK PERFORMED ON PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS. ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

7 THE STRUCTURAL COMPONENTS OF THIS PROJECT SITE/FACILITY ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE

8. NEW TOWERS ARE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION SUBCONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF PERSONNEL AND PROPERTY FROM HAZARDOUS EXPOSURE TO OVERHEAD DANGERS

9. GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF PERMITTED CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT

10. DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS. AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.

11. THE FACILITY IS CELLULAR RADIO EQUIPMENT, ANTENNAS, & SUPPORTING UTILITIES.

12 THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION UPON COMPLETION OF WORK. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY

13. CONTRACTOR SHALL ENSURE THE GENERAL WORK AREA IS KEPT CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT. DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY, PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CONSTRUCTION ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL

15. SPECIAL INSPECTION TESTING REQUIRING SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE (IBC) FOR ITEMS NOTED ON \$1.00 IF INCLUDED IN CONSTRUCTION DOCUMENTS. THE INSPECTOR SHALL BE HIRED BY THE CONTRACTOR & COORDINATION SHALL BE ARRANGED BY THE CONTRACTOR FOR REQUIRED INSPECTIONS

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3 WORF

1 - GENERAL NOTES

UNDERGROUND SERVICE ALERT ITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 WWW.UNCC.ORG

KING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

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# CHARLES STECKLY

# ARCHITECTURE

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# **NOT FOR** CONSTRUCTION

## **GENERAL NOTES**

G1

SNC			
RATIC			DIESEL GENERATOR: INDOORS EMERGENCY BACKUP POWER
PENETRATION			80KW GENERAC DIESEL GENERATOR ABOV CONTAINING 300 GALLONS OF #2D FUEL
ANTENNAS			FUEL TANK LOAD DURATION CALC: TANK SIZE = 300 PER MFR DATA FUEL FILL ALARM @ 90% = 270 GALLONS FUEL CONSUMPTION RATE = 6.3 @ 100% PE LOW FUEL ALARM SET @ 2HRs RUNTIME x 1 (6.3 GPHx 2HS x 133% = 16.758 GALS) 300 GAL TANK PROVIDED/ 6.3 GPH = 48 HR F
			1. CLEARANCES A. WORKING SPACE (NFPA 70 TABLE 11 ELECTRICAL EQUIPMENT OF 0-600 VOI FRONT/SERVICE B. INSPECTION & REPAIR SPACE (NFPA SHALL BE LEFT AROUND INDOOR TAN C. WORKING CLEARANCE (IFC 601.1.2 & OF 3FT SHALL BE MAINTAINED ON ALL 2. SIGNAGE A. "NO SMOKING OR OPEN FLAME" (IFC
LEASE AREA EXISTING EASEMENT			OF DURABLE MATERIAL ARE REQUIRE EXAMPLE AT BOT. OF NOTES) B. NFPA HAZMAT PLACARD: (IFC 5003.5 IDENTIFICATION SIGNS AS SPECIFIED GENERATOR ROOM DOOR REFLECTIN COMPOUND (SEE EXAMPLE) C. FILLING INSTRUCTIONS: (IFC 5704.2. PROVIDED AT THE FILL POINT FOR TH PROCEDURE AND TANK CALIBRATION D. EMERGENCY SHUT DOWN PROCEDU EMERGENCY SHUT DOWN PROCEDU
LITY EASEMENT L'UTILITY EASEMENT		10. DIESEL SUB BASE TANK CONSTRUCTION: (IFC 5704.2.7, NFPA 30-21.4.2.1.1, UL 142)	GENERATOR 3. TANK VENTILATION (IFC 5704.2.9.7.2 & IFC A. CLEARANCE: STORAGE TANKS MUST EMERGENCY VENTING. NORMAL TANK SHALL BE NO SHORTER THAN 12 FEET SHALL BE DISCHARGED AWAY FROM 5 VENT PIPES MUST EXIT STRUCTURE & a. CITY & COUNTY OF DENVER VEN 5' FROM BUILDING OPENINGS AND
ACCESS/UTILITY EASI GEN. CONST./UTILITY		<ul> <li>A. FUEL CONTAINMENT BASIN: SUB BASE TANK SHALL INCLUDE WELDED STEEL CONTAINMENT BASIN SIZED AT A MINIMUM OF 125% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL IN THE EVENT OF A TANK RUPTURE</li> <li>B. LEAK DETECTION SYSTEM: A FUEL CONTAINMENT BASIN LEAK DETECTOR SHALL BE SUPPLIED AND WIRED FOR ALARM CONDITION VISIBLE FOR GENERATOR CONTROL PANEL</li> <li>C. SUB BASE TANK VENTING: NORMAL EMERGENCY VENTING SHALL BE SIZED PER UL 142 SPECIFICATION FOR WETTED SURFACE AREA OF TANK.</li> <li>D. ENGINE ENVIRONMENTAL SPILL PROTECTION: TOP OF FUEL TANK BASE SHALL INCLUDE SPILL CONTAINMENT TO CATCH ANY EXCESS SPILL OR LEAKS FROM</li> </ul>	PIPE. VENT PIPES MUST NOT UTIL AS ALUMINUM, PLASTIC OR COPP B. WEATHER PROOF CAPS: (IMC 1305.7) PROVIDED ON ALL VENT PIPES WITH 1 CROSS SECTION OF THE VENT PIPE. S MESH C. VENT PIPE STATIC HEAD (IMC 1305.7) FILLED WITH OIL EXCEEDS 10 PSI THE MAXIMUM STATIC HEAD THAT WILL BE ARE 12' HIGH WHICH DO NOT EXCEED
OVP/ELEC. EQ. POWER/GROUNDING		<ul> <li>ENGINE AND COOLING SYSTEM. THIS SHALL BE SIZED FOR 125% OF ENGINE FLUIDS AND FUEL SPILL CONTAINMENT.</li> <li>11. REMOTE MANUAL STOP: (NFPA 110 5.6.5.6 &amp; 5.6.5.6.1) ROTATING PRIME MOVER EQUIPMENT (DIESEL ENGINE) SHALL HAVE A REMOTE MANUAL STOP STATION LOCATED IN AN APPROVED LOCATION. REMOTE MANUAL STOP STATION SHALL BE CLEARLY LABELED.</li> <li>12. REMOTE STATUS PANEL: (CITY &amp; COUNTY OF DENVER) (DBC AMENDMENTS 604.1.2 &amp; 907.2.13.8) CONTRACTOR IS TO COORDINATE WITH DENVER FIRE DEPARTMENT WITH GETTING FIELD APPROVAL OF FINAL LOCATION PRIOR TO INSTALLATION. ALL GENERATORS SHALL BE PROVIDED WITH A REMOTE STATUS PANEL THAT SHOWS THE FOLLOWING:</li> <li>A. OPERATING STATUS (ON-OFF) AND MALFUNCTION INDICATION PANEL (PER NFPA 110)</li> <li>B. INDICATION OF TRANSFER SWITCH POSITION (NORMAL-EMERGENCY) C. INDICATION THAT GEN. IS IN AUTOMATIC MODE</li> </ul>	a. 1 PSI = 2.31 FT OF VENT RISE b. 12FT H VENT / 2.31 FT = 5.19 PSI 4. GENERATOR EXHAUST PIPE: (IMC 501.3.1 MUST TERMINATE A MINIMUM OF 10' ABOV OPENINGS, 10' FROM PROPERTY LINES AN 5. OVERFILL PREVENTION TANKS INSIDE BL EQUIPPED WITH THE FOLLOWING: A. A FLOAT VALVE B. PRESET METER ON FILL LINE C. A VALVE ACTUATED BY THE WEIGHT D. LOW-HEAD PUMP WHICH IS INCAPAE LIQUID TIGHT OVERFLOW PIPE AT LEA PIPE AND DISCHARGING BY GRAVITY I OR TO A APPROVED LOCATION 6. HAZARDOUS MATERIALS INVENTORY STA
MW/FIBER EQ.	PERMIT & INSPECTION NOTES	<ul> <li>D. MAIN FUEL OIL STORAGE TANK LOW FUEL LEVEL ALARM. THE LOW FUEL SENSING SWITCH SHALL INDICATE WHEN LESS THAN THE MINIMUM FUEL NECESSARY FOR FULL LOAD RUNNING AS PER NFPA 110 SECTION 5.5.2 OR A MINIMUM OF 75% OF THE TANK SIZE.</li> <li>13. GENERATOR ROOM VENTILATION (IMC 915.2, NFPA 37-6.3.5.4) GENERATOR ROOM TO BE NATURALLY VENTILATED WHEN DOOR IS OPEN. GENERATOR DOOR SIZE MUST BE 4% S.F. OF THE GENERATOR ROOM.</li> <li>14. GEN. TANK MAX STATIC HEAD (IMC 1305.7) "IF THE STATIC HEAD WITH A VENT PIPE FILLED WITH OIL EXCEEDS 10 POUNDS PER SQUARE INCH (PSI) (69 KPA), THE TANK SHALL BE DESIGNED FOR THE MAXIMUM STATIC HEAD THAT WILL BE IMPOSED." VERIZON STANDARD MAX STATIC HEAD IS 5 PSI. GENERAC TANKS ARE DESIGNED TO RELEASE PRESSURE CAP LIMITING PRESSURE AT 2.5 PSI. REFER TO GENERAC TANK</li> </ul>	A. ALL HAZARDOUS CHEMICALS MUST E DEPARTMENT PRIOR TO INSPECTION. 7. FIRE EXTINGUISHER: (IFC 906.1, NFPA-10, A. FIRE EXTINGUISHER INSTALLED SHAI B. LOCATION: (NFPA 10-6.1.3.1) A FIRE E: LOCATED WHERE IT IS READILY ACCE THE EVENT OF A FIRE. C. LOCATION: (NFPA 10-6.3.1.1) A FIRE E 30' OF CLASS B LIQUID HAZARD. FIRE I WITHIN 50' OF CLASS B LIQUID HAZARD. FIRE I WITHIN 50' OF CLASS B LIQUID HAZARD. FIRE I DI HEIGHT: (NFPA 10-6.1.3.8) FIRE EXTING D. HEIGHT: (NFPA 10-6.1.3.8) FIRE EXTING THE TOP OF THE FIRE EXTINGUISHER S BUIL CONTAINED KT. (ECGA 20.2.8.8)
BBU/RRH HYBRID & COAX CABLES	<ol> <li>CONTRACTOR SHALL PROVIDE ANY INSPECTIONS REQUIRED BY LOCAL JURISDICTION PRIOR TO FUELING THE GENERATOR.</li> <li>LEGALLY REQUIRED EMERGENCY OR STANDBY GENERATORS SHALL BE ACCEPTANCE TESTED IN ACCORDANCE WITH NFPA 110. DOCUMENTATION SHALL BE PROVIDED BY CONTRACTOR TO THE LOCAL JURISDICTION OUTLINING THE NFPA 110 ACCEPTANCE TEST CONDUCTED AND RESULTS SHOWING CONFORMITY WITH NFPA 110 ACCEPTANCE TESTING REQUIREMENTS.</li> <li>CONTRACTOR SHALL INQUIRE WITH LOCAL JURISDICTION FOR ANY ADDITIONAL ANNUAL PERMITS RELATING TO GENERATORS OR COMBUSTIBLE STORAGE.</li> </ol>	<ul> <li>CUT SHEET.</li> <li>15. EMERGENCY LIGHTING (NFPA 110-7.3) BATTERY POWERED EMERGENCY LIGHTING IS REQUIRED IN THE GENERATOR ROOM WITH THE CHARGING SYSTEM AND NORMAL ROOM LIGHTING SUPPLIED WITH NORMAL POWER FROM THE LOAD SIDE OF THE GENERATOR.</li> <li>16. MAXIMUM ALLOWABLE QUANTITY HAZARDOUS MATERIALS (IFC TABLE 5003.1.1(1), 5003.9.10, 903.3.1.1) MAXIMUM ALLOWABLE QUANTITY OF CLASS II LIQUID IS 240 GALLONS WHEN STORED IN EXHAUSTED ENCLOSURE. AMOUNT INCREASES TO 480 GAL WHEN ALSO INSTALLING APPROVED FIRE SUPPRESSION SYSTEM.</li> </ul>	8. SPILL CONTAINER KIT: (IFC 5704.2.9.7.8 & A CAPACITY OF AT LEAST 5 GALLONS SHA CONNECTION. FOR TOP FILL TANKS CONT. TO TANK AND EQUIPPED WITH MANUAL DF TANK. A PORTABLE CONTAINER IS ALLOW MAX. 5' A.F.G. & MIN. 5' FROM BUILDING OF 9. INSPECTIONS: CONTRACTOR SHALL VERI INSPECTION REQUIREMENTS INCLUDING A. INSPECTION TEAM WITNESS FILLING B. INSPECTION TEAM WITNESS DEMON: OF 90% & 40 %.
	2 - PERMIT NOTES	1 - GENERATOR NOTES (CONT.)	1 - GENERATOR NOTES

VE GROUND SUB-BASE TANK

ER MFR CUT SHEET 133% = 16.758 GALS ) RUN TIME

10.26.A.1) WORKING SPACE FOR DLTS SHALL BE A MINIMUM OF 3' ON

A 37 6.3.5.1.2) AT LEAST 15" MIN. CLEARANCE NKS OF 1500 GAL. OR LESS. & NFPA 110 7.9.12.1) A MINIMUM CLEARANCE L SIDES OF FUEL TANKS.

C 5704.2.3.1) THE FOLLOWING SIGNS MADE ED ON THE GENERATOR ROOM DOOR (SEE

5 & NFPA 704) VISIBLE HAZARD 9 BY NFPA 704 SHALL BE PLACED ON NG THE HIGHEST HAZARD WITHIN THE

2.9.7.6.1) A PERMANENT SIGN SHALL BE HE TANK, DOCUMENTING THE FILLING N CHART.

**URES:** (NFPA 37.10.2.1) PROVIDE CLEAR RES FOR SAFELY DISABLING THE

C 5704.2.7.3. & NFPA 30 & DFC 5704.2.7.3.3) IT BE EQUIPPED WITH NORMAL <u>AND</u> IK VENT PIPES MUST EXIT STRUCTURE & IT ABOVE FINISHED GROUND. VAPORS IEAVES OR OBSTRUCTIONS. EMERGENCY & SHALL COMPLY WITH NFPA 30/22.7. NT PIPES MUST ALSO TERMINATE A MIN. OF D A MIN. OF 10' FROM GENERATOR EXHAUST ILIZE LOW MELTING POINT MATERIALS SUCH PER.

7) WEATHER PROOF CAPS SHALL BE THE SAME FREE OPEN VENT AREA AS THE SCREENS SHALL NOT BE FINER THEN NO.4

7) IF THE STATIC HEAD WITH A VENT PIPE E TANK SHALL BE DESIGNED FOR THE IE IMPOSED. ALL VENT PIPES AT THIS SITE D 10 PSI.

1 & NFPA 37 8.2.3) GENERATOR EXHAUST VE GRADE, 10' FROM OPERABLE BUILDING ND 3' FROM EXTERIOR WALLS AND ROOFS. **JUILDINGS:** (5704.2.9.5.1) TANKS SHALL BE

T OF THE TANKS CONTENTS BLE OF PRODUCING OVERFLOW OR A AST ONE PIPE SIZE LARGER THAN THE FILL Y BACK TO THE OUTSIDE SOURCE OF LIQUID

ATEMENT: (IFC APPENDIX H) BE REPORTED TO LOCAL COUNTY FIRE I.

., NFPA-76, OSHA 29 CGR 1910.157) ALL BE A MIN. RATING OF 4A:40B:C EXTINGUISHER SHALL BE CONSPICUOUSLY ESSIBLE AND IMMEDIATELY AVAILABLE IN

EXTINGUISHER RATED 40-B MUST BE WITHIN EXTINGUISHER RATED 80-B MUST BE

NGUISHER SHALL BE INSTALLED SO THAT R IS BETWEEN 3.5 AND 5 FT A.F.F. & IFC 5704.2.7.5.6) A SPILL CONTAINER WITH ALL BE PROVIDED WITH EACH FILL TAINER MUST BE NON-COMBUSTIBLE, FIXED DRAIN VALVE THAT DRAINS INTO PRIMARY VED WITH REMOTE FILL TANKS. MUST BE OPENINGS.

RIFY WITH LOCAL FIRE DEPARTMENT

G OF THE DIESEL TANK. NSTRATION OF FLOAT SWITCH SET POINTS verizon<sup>/</sup>

VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

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# **CHARLES** STECKES

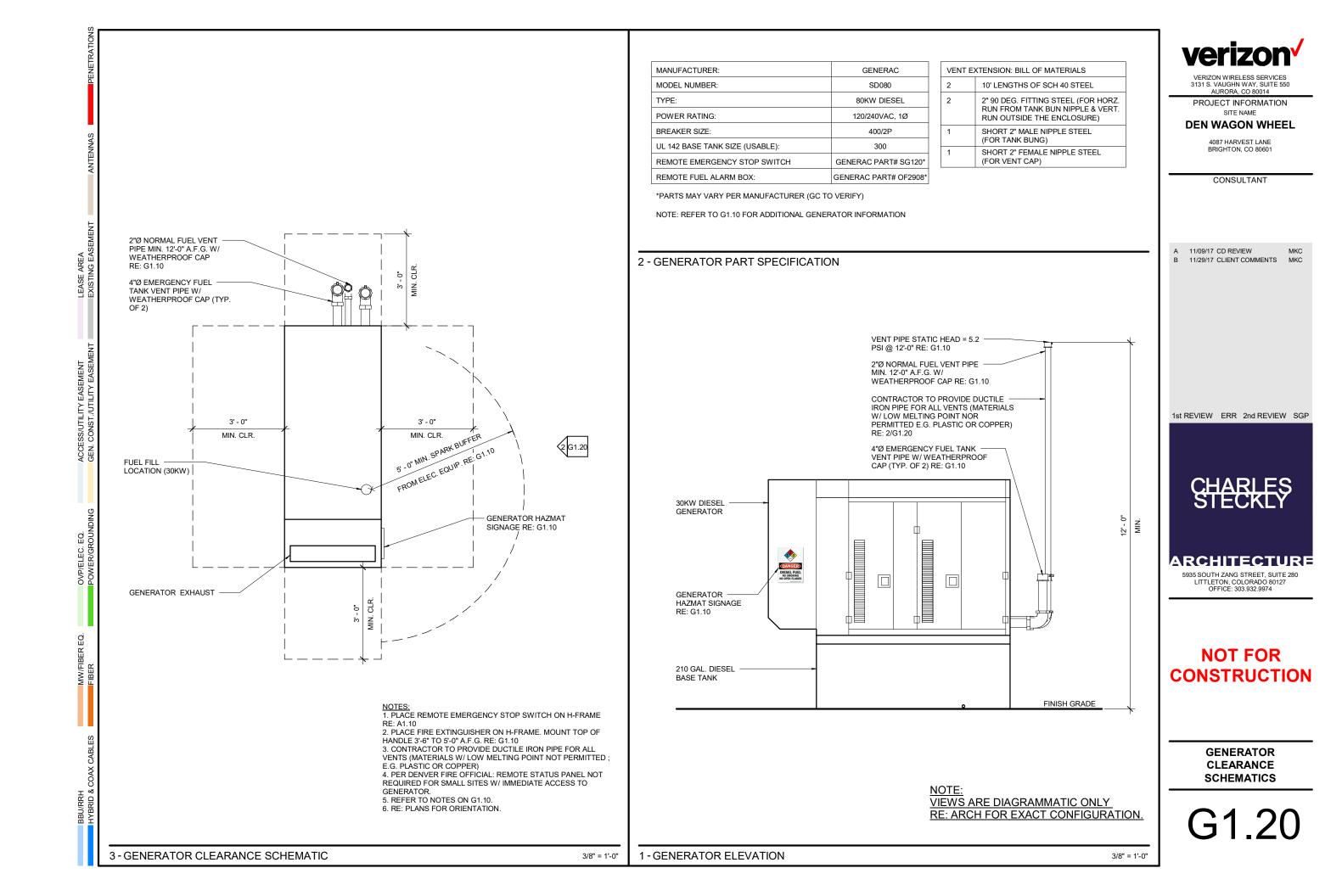
# 5935 SOUTH ZANG STREET, SUITE 280

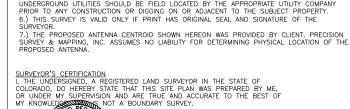
5935 SOUTH ZANG STREET, SUITE 280 LITTLETON, COLORADO 80127 OFFICE: 303.932.9974

# NOT FOR CONSTRUCTION

## **GENERATOR NOTES**

G1.10







THE SIDELINES OF SAID STRIP ARE TO BE LENGTHENED OR SHORTENED SO AS NOT TO CREATE ANY GORES OR OVERLAPS. CENTERINE LENGTH IS 17.8 FEET, MORE OR LESS.

PROPOSED 10' WIDE UTILITY EASEMENT "B": A 10.00 FOOT WIDE STRIP OF LAND BEING 5.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE; BEGINNING AT THE AFOREMENTIONED POINT "C":

THENCE ALONG A CURVE TO THE LEFT AN ARC LENGTH OF 21 71 FEFT HAVING A RADIUS OF 273 00 FEFT THROUGH A CENTRAL ANGLE OF 0433'24" AND A CHORD WHICH BEARS N84'46'28"W A DISTANCE OF 21.71 FEET TO THE POINT OF TERMINUS; WHENCE SAID NORTHWEST CORNER OF SAID TRACT W BEARS N40'37'00"W A DISTANCE OF 639.49 FEET.

BASIS OF BEARING OF THIS DESCRIPTION IS N89'23'44"E A DISTANCE OF 500.84 FEET ALONG THE NORTH LINE OF TRACT W,

BEGINNING AT A POINT WHICH BEARS \$35'49'37"W A DISTANCE OF 59.56 FEET FROM THE NORTHEAST CORNER OF SAID TRACT W

THENCE \$00'33'37"E A DISTANCE OF 1.07 FEET TO POINT "A"; THENCE CONTINUING \$00'33'37"E A DISTANCE OF 7.50 FEET; THENCE \$89'26'23"W A DISTANCE OF 37.93 TO POINT "B"; THENCE CONTINUING \$89'26'23"W A DISTANCE OF 4.09 FEET; THENCE N00'33'37"W A DISTANCE OF 8.57 FEET; THENCE N89'26'23"E A DISTANCE OF 42.02 FEET THE POINT OF BEGINNING; WHENCE THE NORTHWEST CORNER OF SAID TRACT W BEARS N84'43'36"W A DISTANCE OF 467.93 FEET.

THENCE N89'23'44"E A DISTANCE OF 27.96 FEET; THENCE S00'34'41"E A DISTANCE OF 200.09 FEET; THENCE S13'24'02"W A DISTANCE OF 250.35 FEET TO POINT "C"; THENCE CONTINUING S13'24'02"W A DISTANCE OF 5.03 FEET TO THE NORTHERLY RIGHT-OF-WAY OF HARVEST LANE AND THE POINT OF TERMINUS; WHENCE SAID NORTHWEST CORNER OF SAID TRACT W BEARS

THE SIDELINES OF SAID STRIP ARE TO BE LENGTHENED OR SHORTENED SO AS NOT TO CREATE ANY GORES OR OVERLAPS.

THENCE S44'26'23"W A DISTANCE OF 17.79 FEET TO THE POINT OF TERMINUS; WHENCE SAID NORTHWEST CORNER OF SAID

PROPOSED 15' ACCESS & UTILITY EASEMENT A 15.00 FOOT WIDE STRIP OF LAND BEING 7.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

PROPOSED 10' WIDE UTILITY EASEMENT "A": A 10.00 FOOT WIDE STRIP OF LAND BEING 5.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

BRIGHTON EAST FARMS FILING NO. 1, FILED IN THE ADAMS COUNTY CLERK AND RECORDER'S OFFICE,

SAID LANDS CONTAINING 360 SQUARE FEET, MORE OR LESS.

BEGINNING AT THE AFOREMENTIONED POINT "A";

CENTERLINE LENGTH IS 483.4 EFET. MORE OR LESS.

TRACT W BEARS N81'09'32"W A DISTANCE OF 420.65 FEET.

BEGINNING AT THE AFOREMENTIONED POINT "B"

N41'34'45"W A DISTANCE OF 658.11 FEET.

THE SIDELINES OF SAID STRIP ARE TO BE LENGTHENED OR SHORTENED SO AS NOT TO CREATE ANY GORES OR OVERLAPS

CENTERLINE LENGTH IS 21.7 FEET. MORE OR LESS.

NULES 1.) THIS SURVEY AND ACCOMPANYING DESCRIPTION(S) ARE NOT INTENDED FOR PURPOSE OF TRANSFER OF TITLE OR SUBDIVISION OF LAND. 2.) THIS IS NOT A BOUNDARY SURVEY, LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT. 3.) THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY PRECISION SURVEY & MAPPING, INC. TO DETERMINE OWNERSHIP OR EASEMENTS OF RECORD. 4.) THIS SURVEY DOES NOT PROVIDE ANY DETERMINATION CONCERNING WETLANDS, FAULT LINES, TOXIC WASTE OR ANY OTHER ENVIRONMENTAL ISSUES. SUCH MATTERS SHOULD BE DIRECTED TO AN EXPERT CONSULTANT. AN EXPERIC CURSULTANT. 5.) THERE MAY BE ADDITIONAL BURIED OR UNDERGROUND UTILITIES IN THE AREA WHICH THE SURVEYOR IS UNAWARE OF AND NO LUBILITY FOR SUCH IS ASSUMED HEREIN. ALL UNDERGROUND UTILITIES SHOULD BE FIELD LOCATED BY THE APPROPRIATE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION OR DIGGING ON OR ADJACENT TO THE SUBJECT PROPERTY.

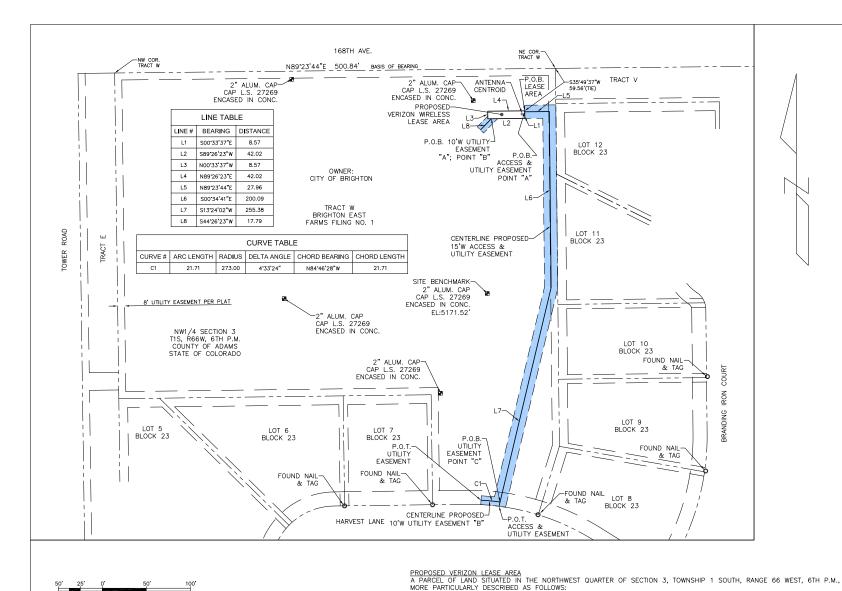
BASIS OF BEARINGS COLORADO STATE PLANE NORTH ZONE (NAD83) CLASSIFICATION-THIRE IMUM GEOMETRIC ACCURACY STANDARD: 5.0cm + 1:10,000

SITE BENCHMARK-2" ALUM CAP L.S. #27269 ENCASED IN CONCRETE GROUND ELEVATION=5171.52 (NAVD88) UTILIZING GEOID 12A WITH THE VRS NETWOR

BENCHMARK

# ANTENNA CENTROID GROUND ELEV.=5166'

NOTES



SITE

VICINITY MAP - NTS

LEGAL DESCRIPTION-PARENT PARCEL TRACT W, BRIGHTON EAST FARMS FILING NO. COUNTY OF ADAMS, STATE OF COLORADO

TITLE REPORT PREPARED BY: LAND TITLE GUARANTEE COMPANY COMPANY FILE NUMBER: AB70524515 EFFECTIVE DATE: DECEMBER 12, 2016 AT 5:00 P.M.

SCHEDULE B-EXCEPTIONS 1) RESERVATIONS BY THE UNION PACIFIC RAILWAY COMPANY OF: ALL OIL COAL AND OTHER MINERALS UNDERLYING SUBJECT PROPERTY, THE EXCLUSIVE RIGHT TO PROSPECT FOR, MINE AND REMOVE OIL, COAL AND OTHER

MINERALS, AND THE RIGHT OF INGRESS AND EGRESS AND REGRESS TO PROSPECT FOR. MINE AND

(3) THE RIGHT OF INGRESS AND EGRESS AND REGRESS TO PROSPECT FOR, MINE AND REMOVE OIL, COAL AND OTHER MINERALS, ALL AS CONTAINED IN DEED RECORDED FEBRUARY 24, 1900, IN BOOK 1287 AT PAGE 630 (OLD ADAMS COUNTY RECORDS). NOTE: DEEDS REGARDING SAID RESERVATIONS RECORDED APRIL 11, 1971 IN BOOK 1684 AT PAGE 281, NOVEMBER 23, 1998 IN BOOK 5547 AT PAGE 272 AND MAY 18, 2000 IN BOOK 6132 AT PAGE 197.

2) OIL AND GAS LEASE BETWEEN NELL J. BERGMAN AND HILIGHT DRILLING CO., RECORDED APRIL 21, 1970 IN BOOK 1593 AT PAGE 224 AND ANY AND ALL ASSIGNMENTS THEREOF, OR INTEREST THEREIN. PRODUCTION AFFIDAVIT RECORDED APRIL 20, 1973 IN BOOK 1858 AT PAGE 453. 3) AN UNDIVIDED 49% INTEREST IN AND TO AND OF ALL OF THE OIL, GAS AND OTHER MINERLAS IN, UNDER AND UNDERLYING AND THAT MAY BE PRODUCED FROM SAID LANDS, AS RESERVED IN DEED RECORDED MARCH 28, 1972 IN BOOK 1787 AT PAGE 927. NOTE: AGREEMENT RECARDING SAID RESERVATION RECORDED MARCH 28, 1972 IN BOOK 2066 AT PAGE 929 NOTE: MORE AND ROYALTY AGREEMENT RECORDED JANUARY 4, 1973 IN BOOK 2066 AT PAGE 929 NOTE: MINERAL MORE RECORDED MARCH 2, 1999 IN BOOK 2066 AT PAGE 930 NOTE: MINERAL FOR DEED RECORDED MARCH 2, 1999 IN BOOK 2066 AT PAGE 930 NOTE: MINERAL MORE RECORDED MARCH 2, 1999 IN BOOK 206 AT PAGE 930 NOTE: MINERAL MORE RECORDED MARCH 2, 1999 IN BOOK 206 AT PAGE 930 NOTE: MINERAL MORE AND ROOK 565 AT PAGE 955 929. NOTE: MINERAL DEED RECORDED MARCH 2, 1999 IN BOOK 5662 AT PAGE 965.

4) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN BROMLEY PARK PRELIMINARY P.U.D. PLAN RECORDED SEPTEMBER 05, 1984 UNDER RECEPTION NO, B525682, BROMLEY PARK P.U.D. OVERALL DEVELOPMENT PLAN RECORDED JULY 16, 1985 UNDER RECEPTION NO, B586587 AND AMENDMENTS THERETO RECORDED SEPTEMBER 9, 1988 UNDER RECEPTION NO, B538635, MAY 19, 1997 UNDER RECEPTION NO. C0281938 AND MARCH 18, 2002 UNDER RECEPTION NO. C0941925.

5) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN ANNEXATION AGREEMENT RECORDED JULY 31, 1985 IN BOOK 3300 AT PAGE 355 AND AMENDMENTS THERETO RECORDED APRIL 13, 1987 IN BOOK 3301 AT PAGE 399, NOVEMBER 11, 1994 IN BOOK 4423 AT PAGE 908, NOVEMBER 20, 1995 IN BOOK 4630 AT PAGE 395 AND 397 DECEMPTION AND ADDRESS AND A NOVEMBER 20, 2001 UNDER RECEPTION NO. C0893217.

NOTICE OF GENERAL DESCRIPTION OF AREA SERVED BY PANHANDLE FASTERN PIPELINE COMPANY CONCERNING UNDERGROUND FACILITIES RECORDED JUNE 25, 1986 IN BOOK 3162 AT PAGE 961.

TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN ZÓNING ORDINANCE RECORDED APRIL 13, 1987 IN BOOK 3301 AT PAGE 848.

8) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN AGREEMENT RECORDED AUGUST 02, 1990 IN BOOK 35697 AT PAGE 886. MEMORANDUM OF EXHIBITS RECORDED MARCH 7, 1991 IN BOOK 3756 AT PAGE 478.

TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN SETTTLEMENT AND AMENDED AND RESTATED TAP PURCHASE AGREEMENT RECORDED APRIL 29, 1991 IN BOOK 3771 AT PAGE 518.

10) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN RESOLUTION RECORDED NOVEMBER 14, 1994 IN BOOK 4423 AT PAGE 705. TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN

CONSOLIDATED SERVICE PLANS FOR BROMLEY PARK METROPOLITAN DISTRICTS RECORDED JANUARY 13, 1995 IN BOOK 4452 AT PAGE 892.

12) ANY TAX, LIEN, FEE, OR ASSESSMENT BY REASON OF INCLUSION OF SUBJECT PROPERTY IN THE BROMLEY PARK METROPOLITAN DISTRICT NO. 2, AS EVIDENCED BY INSTRUMENT RECORDED MARCH 24, 2000, IN BOOK 6074 AT PAGE 527. SPECIAL DISTRICT PUBLIC DISCLOSURE DOCUMENT RECORDED DECEMBER 23, 2014 UNDER RECEPTION NO. 2014000089997.

13) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN BEEBE DRAW WASTEWATER SERVICE AGREEMENT RECORDED NOVEMBER 21, 1997 IN BOOK 5163 AT PAGE 223.

14) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN BRIGHTON CITY COUNCIL RESOLUTION NO. 00-32 RECORDED AUGUST 24, 2001 UNDER RECEPTION NO. C0847604.

15) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN DEVELOPMENT AGREEMENT FOR BRIGHTON EAST FARMS FILING NO. 1 RECORDED NOVEMBER 30, 2001 UNDER RECEPTION NO. C0893218 AND AMENDMENT RECORDED JANUARY 31, 2011 UNDER RECEPTION NO. 2011000006975.

16) EASEMENTS, CONDITIONS, COVENANTS, RESTRICTIONS, RESERVATIONS AND NOTES ON THE PLAT OF BRIGHTON EAST FARMS FILING NO. 1 RECORDED NOVEMBER 30, 2001 UNDER RECEPTION NO. 893219. SHOWN HEREON

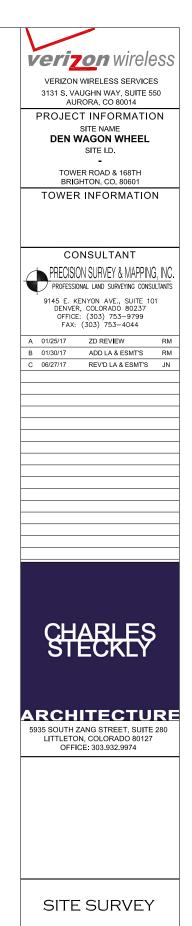
17) TERMS, CONDITIONS, PROVISIONS, BURDENS AND OBLIGATIONS AS SET FORTH IN RESOLUTION 03-31 RECORDED MAY 10, 2004 UNDER RECEPTION NO. 20040510000336710.

18) TERMS, CONDITIONS, PROVISIONS, BURDENS, OBLIGATIONS AND EASEMENTS AS SET FORTH AND GRANTED IN ASSIGNMENT AND QUIT CLAIM OD EASEMENTS RECORDED APRIL 09, 2007 UNDER RECEPTION NO. 2007000035370.

19) EXISTING LEASES AND TENANCIES, IF ANY.

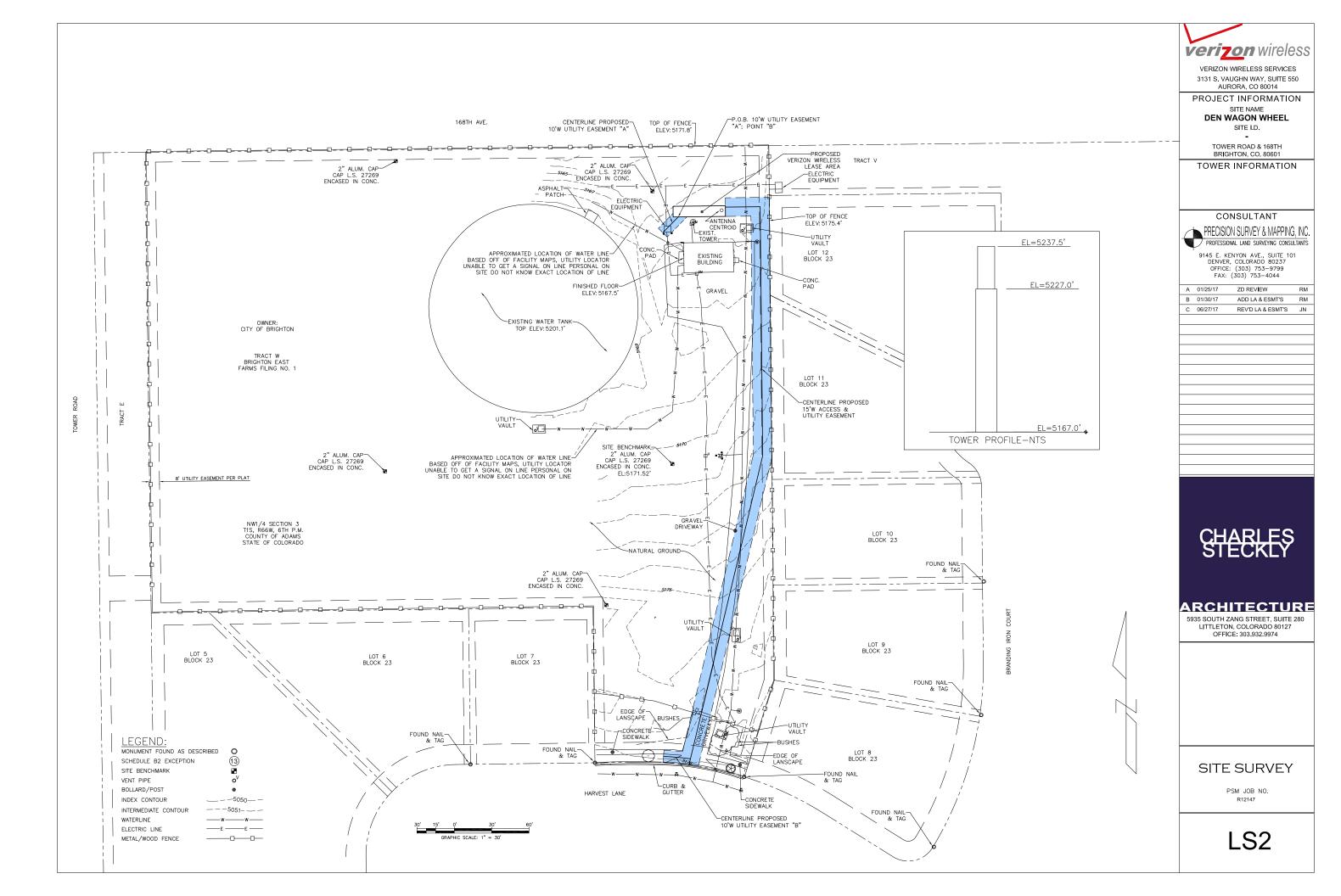
DOCUMENTS ARE BLANKET IN NATURE AN NOT PLOTTABLE UNLESS OTHERWISE NOTED

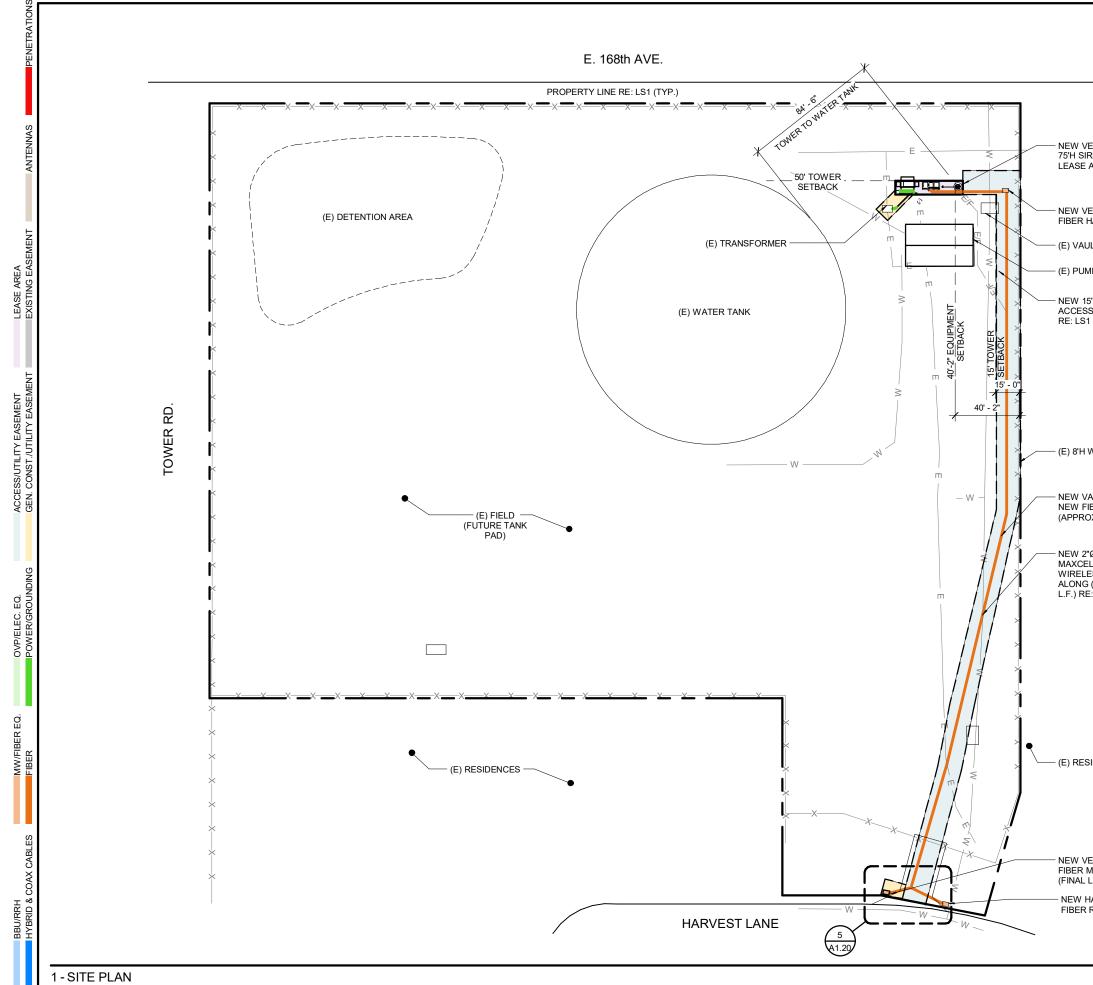




PSM JOB NO. R12147

LS1





**verizon**<sup>/</sup>

VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

PROJECT INFORMATION SITE NAME

DEN WAGON WHEEL

4087 HARVEST LANE BRIGHTON, CO 80601

CONSULTANT

Α	11/09/17 CD REVIEW	MKC
В	11/29/17 CLIENT COMMENTS	MKC

1st REVIEW ERR 2nd REVIEW SGP

# CHARLES STECKEY

ARCHITECTURE 5935 SOUTH ZANG STREET, SUITE 280 LITTLEFON, COLORADO 80127 OFFICE: 303.932.9974

# NOT FOR CONSTRUCTION

SITE PLAN & UTILITIES PLAN

A1.00

NEW VERIZON WIRELESS EQUIPMENT & 75'H SIREN TOWER WITHIN 8'-7"x42'-0" LEASE AREA RE: A1.10

NEW VERIZON WIRELESS FIBER HAND HOLE RE: 2/A1.20

- (E) VAULT W/ VENT PIPE

(E) PUMP HOUSE

- NEW 15'W VERIZON WIRELESS ACCESS & UTILITY EASEMENT RE: LS1

(E) 8'H WOOD FENCE (TYP)

NEW VACANT 4"Ø FOR CITY FIBER TO NEW FIBER BOX IN PUMP HOUSE (APPROX. 450 L.F.)

NEW 2"Ø U.G. FIBER CONDUIT W/ 3-CELL MAXCELL FIBER IN 15"W VERIZON WIRELESS ACCESS & UTILITY EASEMENT ALONG (E) GRAVEL DRIVE (APPROX. 500 L.F.) RE: 5/A1.20, LS1

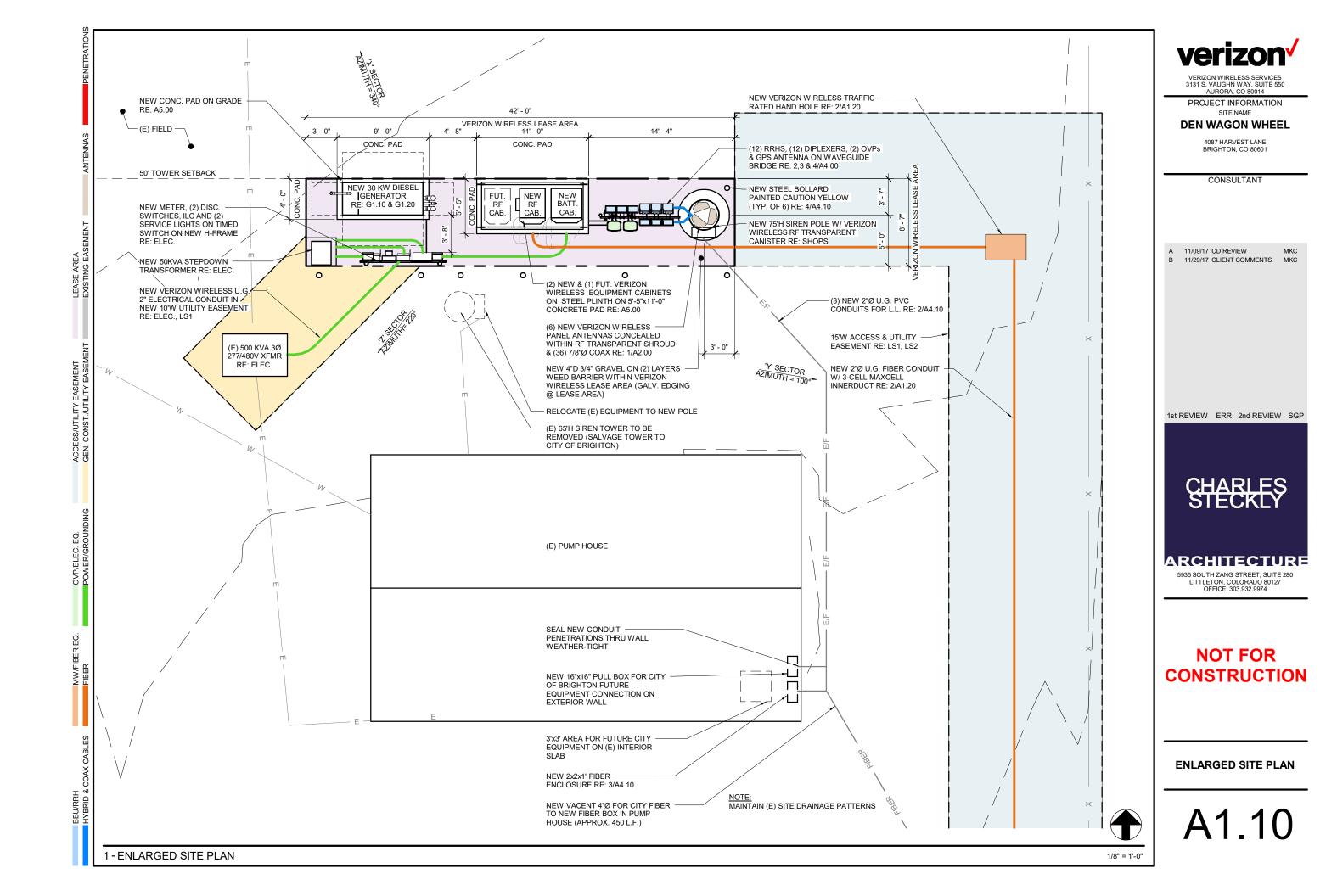
(E) RESIDENCES

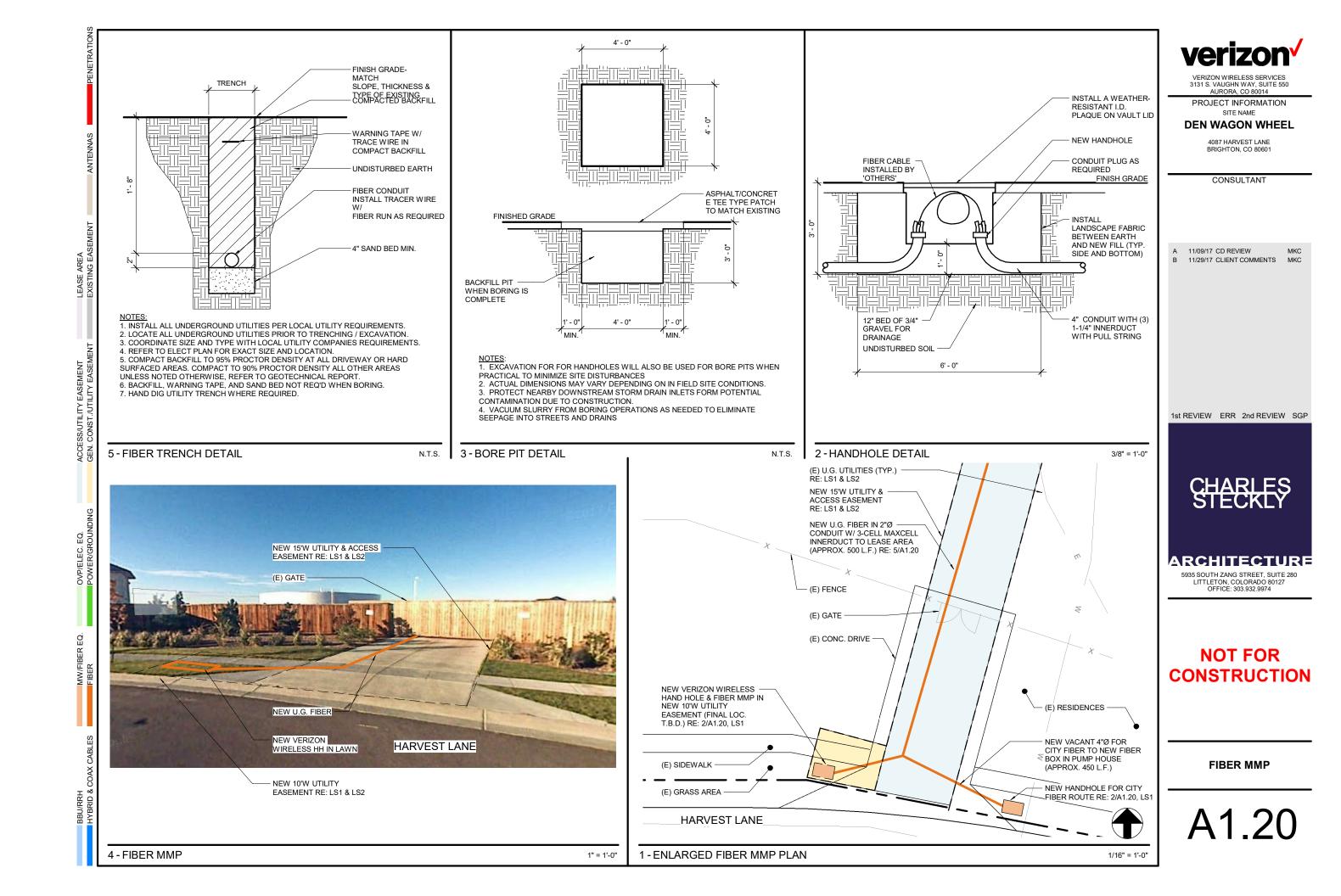
- NEW VERIZON WIRELESS HAND HOLE & FIBER MMP IN NEW 10'W UTILITY EASEMENT (FINAL LOC. T.B.D.) RE: 1/A1.20, LS1

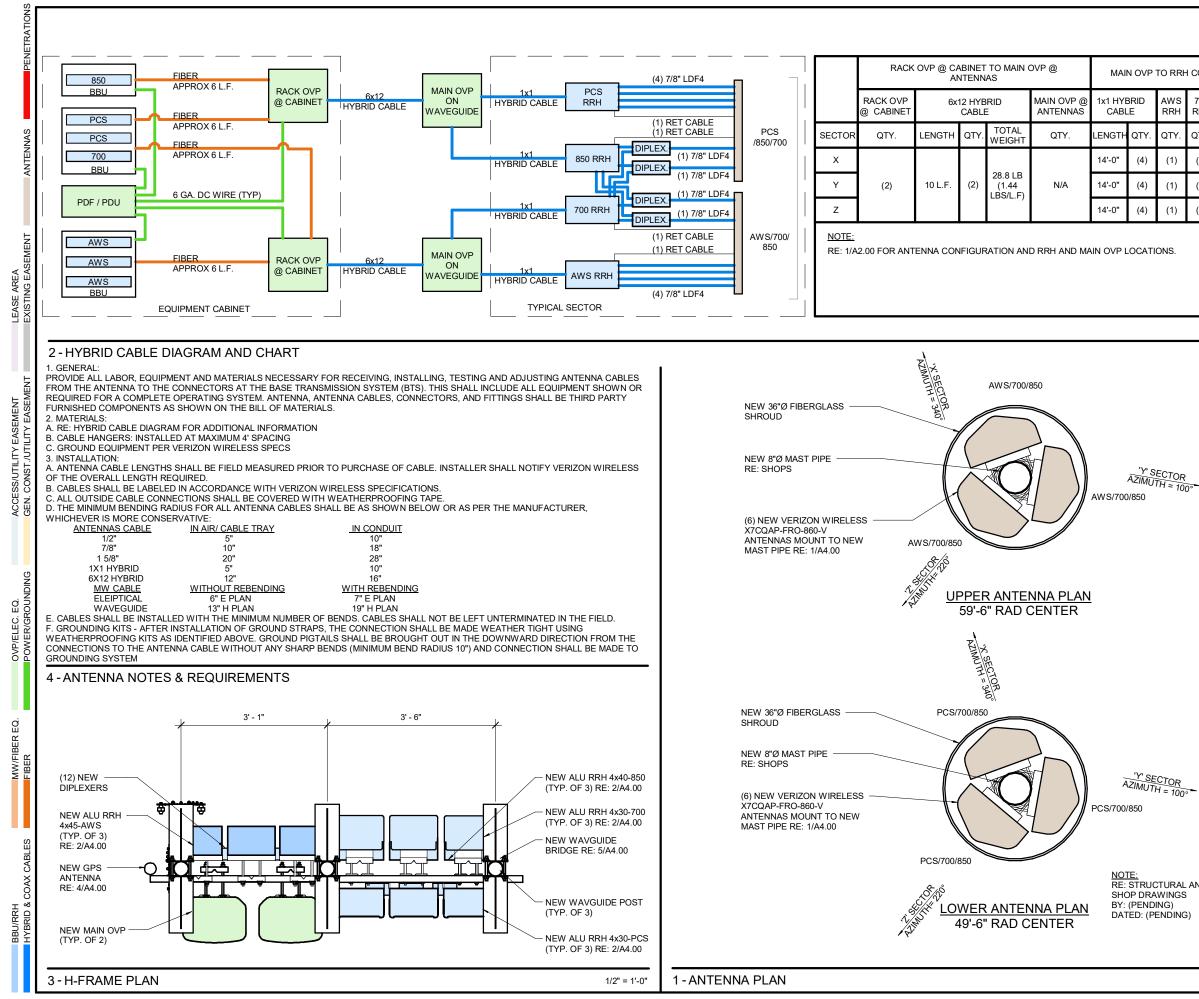
- NEW HANDHOLE FOR CITY FIBER ROUTE RE: 2/A1.20, LS1



1" = 60'-0"







	MAI	MAIN OVP TO RRH CONNECTION								
VP @ INAS	1x1 HYBRID CABLE		AWS 700 RRH RRH		PCS RRH	850 RRH				
<i>′</i> .	LENGTH	NGTH QTY.		QTY.	QTY.	QTY.				
	14'-0"	(4)	(1)	(1)	(1)	(1)				
4	14'-0"	(4)	(1)	(1)	(1)	(1)				
	14'-0"	(4)	(1)	(1)	(1)	(1)				



VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

PROJECT INFORMATION SITE NAME

## **DEN WAGON WHEEL**

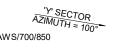
4087 HARVEST LANE BRIGHTON, CO 80601

### CONSULTANT

11/09/17 CD REVIEW MKC B 11/29/17 CLIENT COMMENTS MKC

1st REVIEW ERR 2nd REVIEW SGP

CHARLES STECKEY





ARCHITECTURE 5935 SOUTH ZANG STREET, SUITE 280 LITTLETON, COLORADO 80127 OFFICE: 303.932.9974

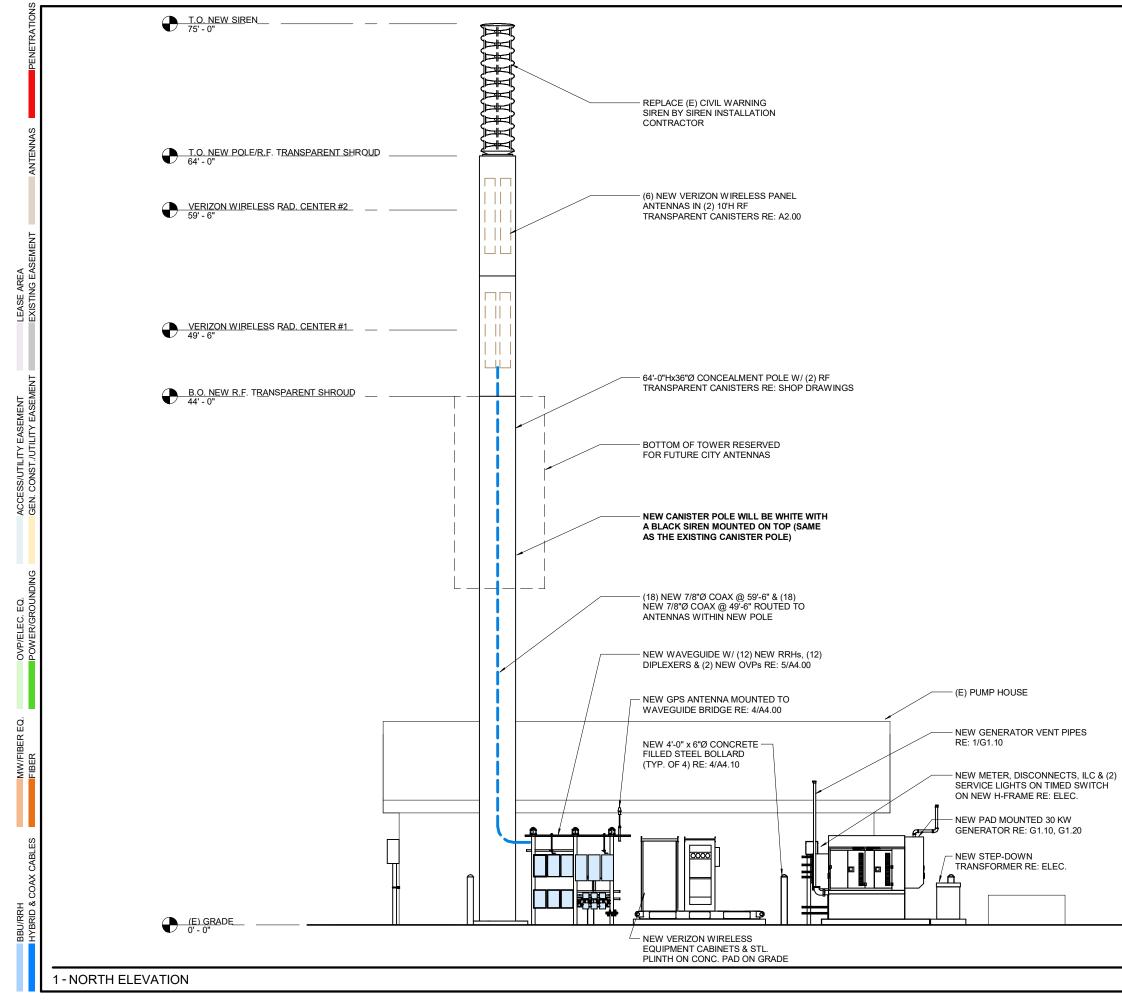
# **NOT FOR** CONSTRUCTION

**ANTENNA PLANS &** NOTES

A2.0(

NOTE: RE: STRUCTURAL ANALYSIS &





1/8" = 1'-0"



CONSTRUCTION

NORTH ELEVATION

A3.00

# CHARLES ARCHITECTURE

1st REVIEW ERR 2nd REVIEW SGP

B 11/29/17 CLIENT COMMENTS MKC

MKC

A 11/09/17 CD REVIEW

CONSULTANT



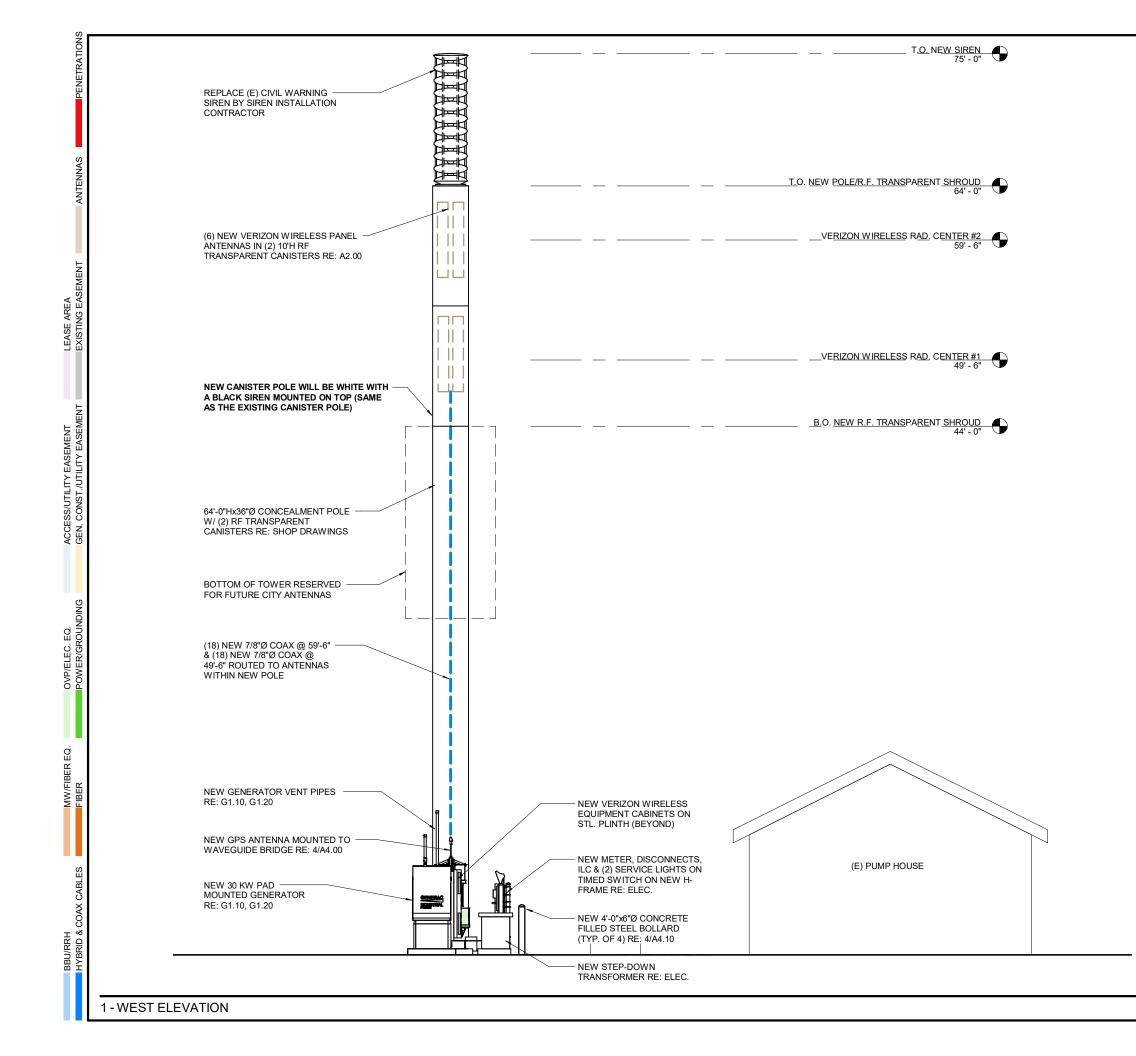
VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

PROJECT INFORMATION SITE NAME

**DEN WAGON WHEEL** 

4087 HARVEST LANE BRIGHTON, CO 80601

verizon







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4087 HARVEST LANE BRIGHTON, CO 80601

### CONSULTANT

B 11/29/17 CLIENT COMMENTS MKC

MKC

A 11/09/17 CD REVIEW

1st REVIEW ERR 2nd REVIEW SGP CHARLES STECKEY

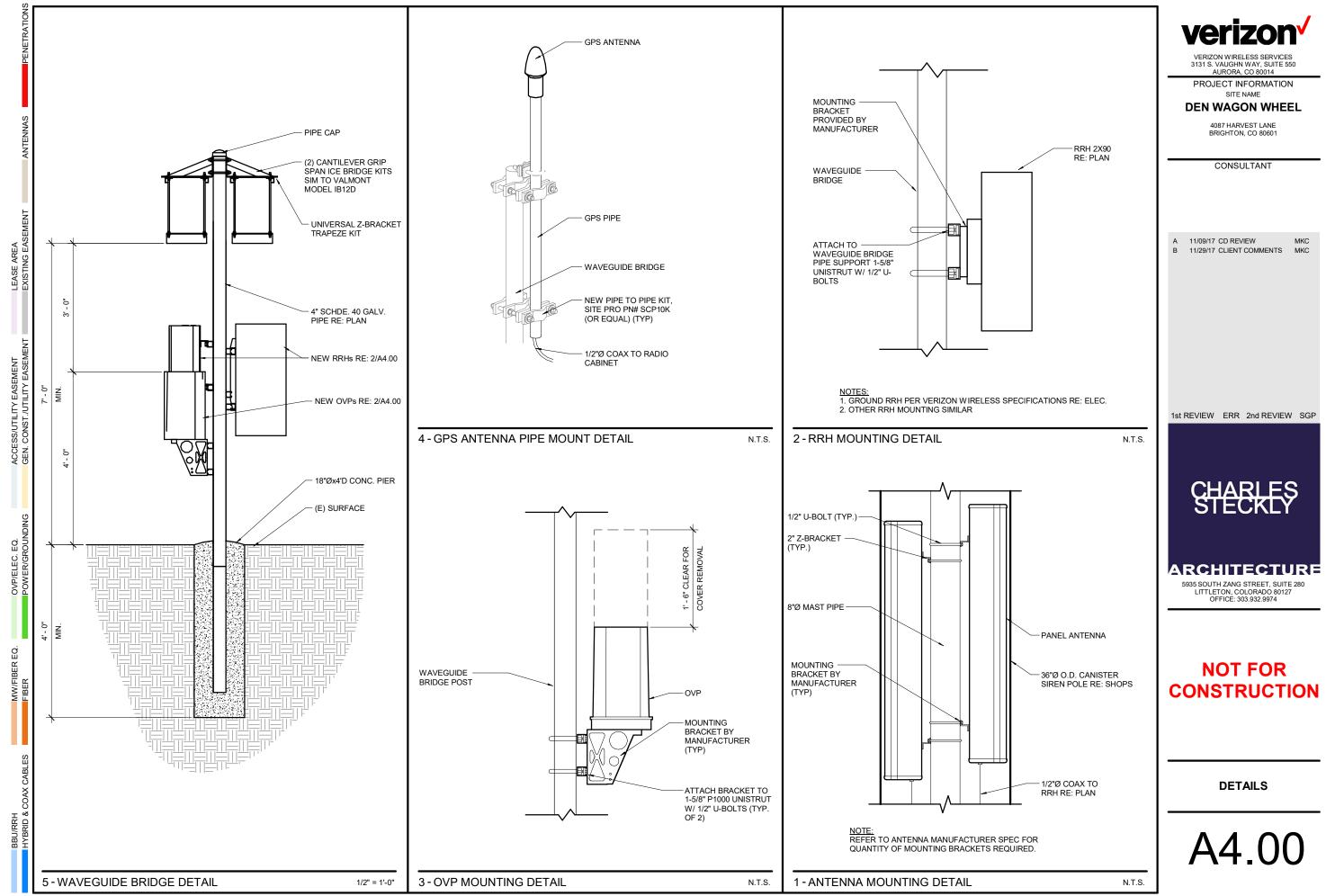
# ARCHITECTURE

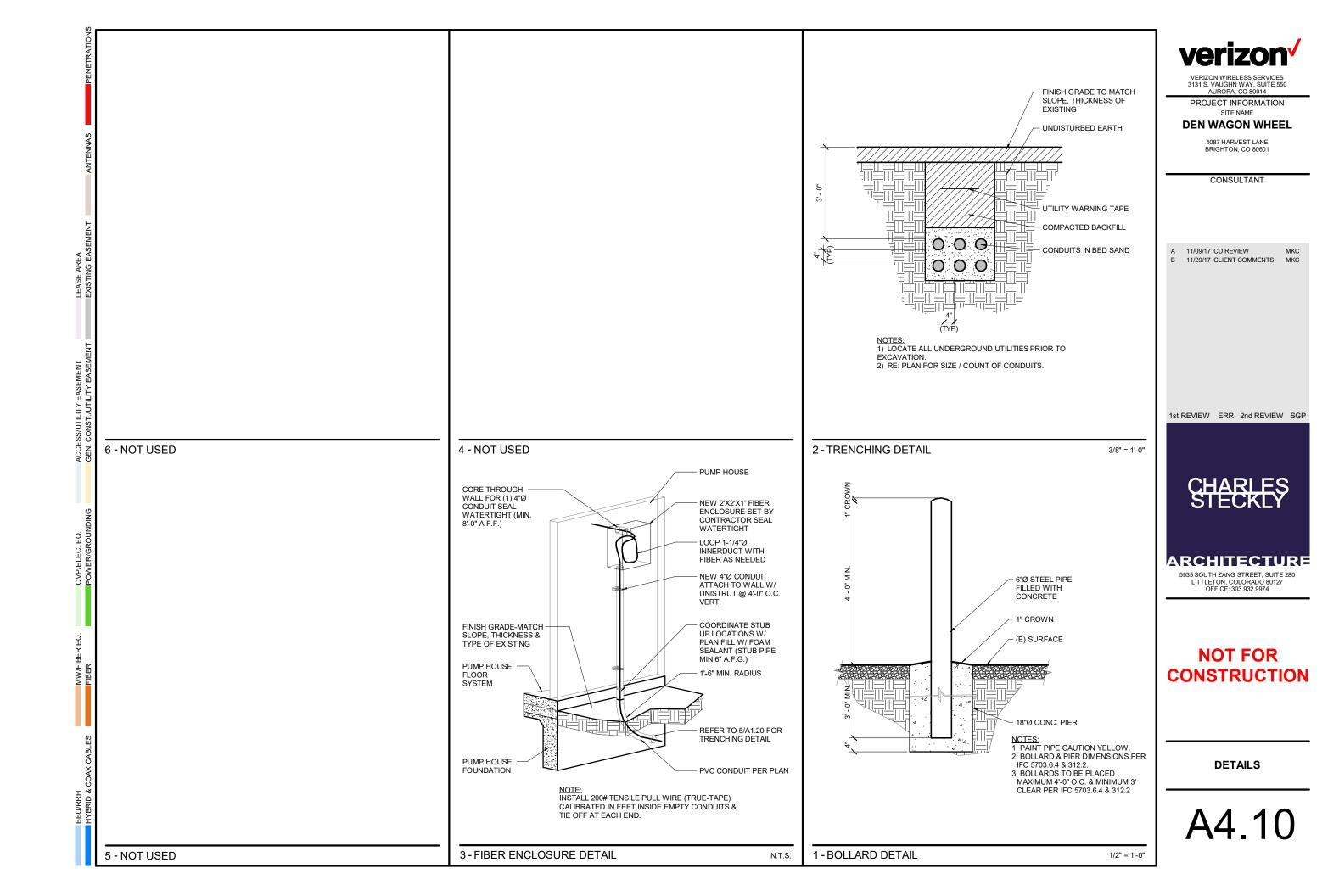
5935 SOUTH ZANG STREET, SUITE 280 LITTLETON, COLORADO 80127 OFFICE: 303.932.9974

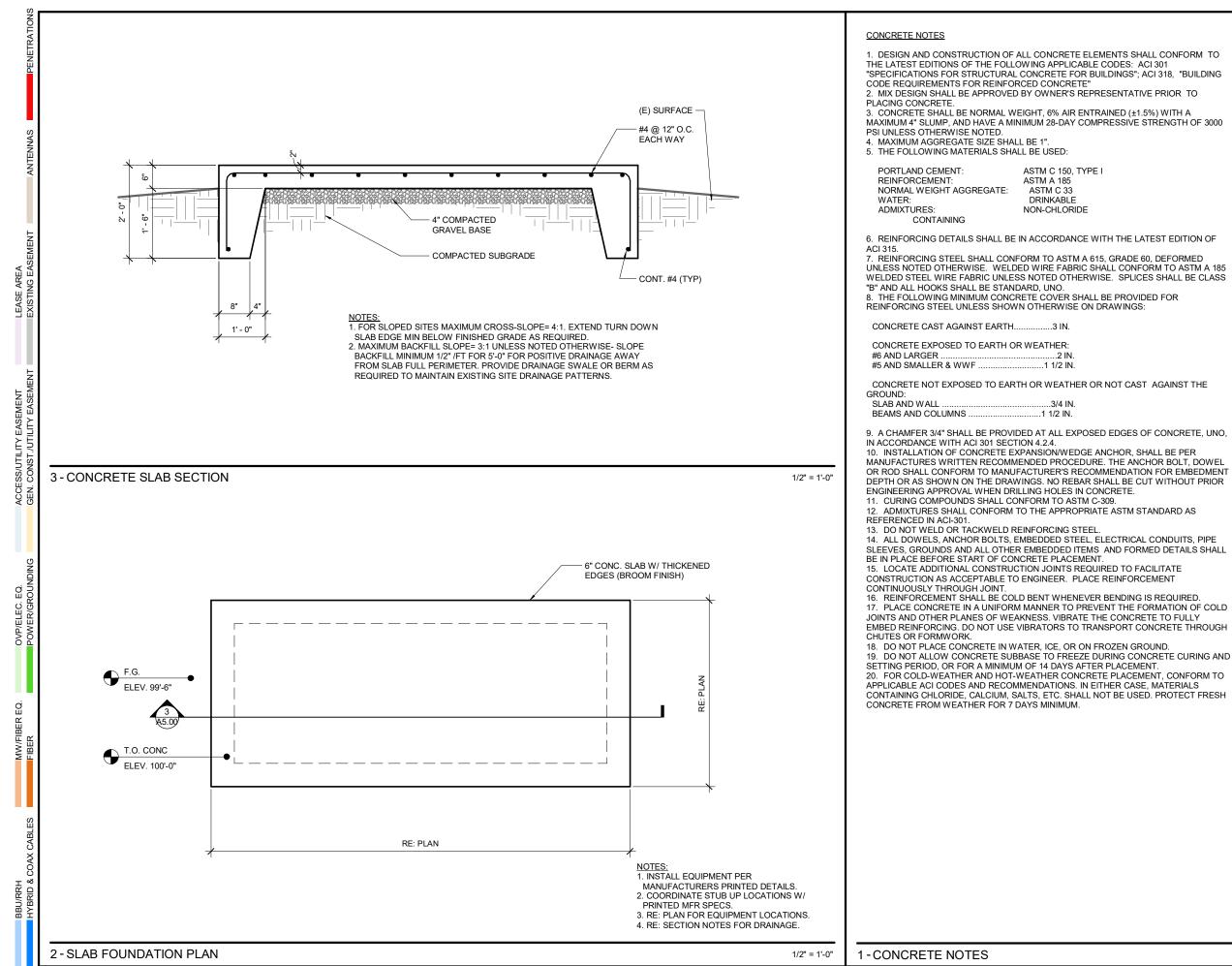
# **NOT FOR** CONSTRUCTION

### WEST ELEVATION

A3.10







"SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING

ASTM C 150, TYPE I ASTM A 185 ASTM C 33 DRINKABLE NON-CHLORIDE

UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS

3 IN

2 IN 1 1/2 IN

...3/4 IN. ...1 1/2 IN.

9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO,

MANUFACTURES WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.

14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH

CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH



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1st REVIEW ERR 2nd REVIEW SGP

# CHARLES STECKEY



LITTLETON, COLORADO 80127 OFFICE: 303.932.9974

# **NOT FOR** CONSTRUCTION

**FOUNDATION PLAN &** NOTES

A5.00

SNC		POWER PLAN SYMBOLS	GROUNDING PLAN S	YMBOLS
RATIC	1. REFER TO VERIZON WIRELESS GROUNDING SPECIFICATIONS FOR ALL GROUNDING REQUIREMENTS.	POWER CONDUCTOR	GRO	
<b>PENETRATIONS</b>	2. BOND AND GROUND ANY PROPOSED STRUCTURAL STEEL, CONCRETE REINFORCING AND OTHER METALLIC BUILDING ELEMENTS, REFER TO VERIZON WIRELESS SPECIFICATIONS FOR EXACT REQUIREMENTS.	PANELBOARD	СОМ	DUCTOR PRESSION TYPE NECTION
	3. THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL BONDING AND GROUNDING TO THE SITE'S OUTER GROUNDING SYSTEM DURING THE CONSTRUCTION PHASE OF THE BUILDING.			
0	4. CONTRACTOR IS TO CONDUCT FREQUENT INSPECTIONS DURING THE CONSTRUCTION PHASE TO ENSURE THAT ALL GROUNDING ARRANGEMENTS ARE MADE ACCORDING TO THE GROUNDING DESIGN SPECIFICATIONS.	METER		PER CLAD JND ROD (5/8"
ANTENNAS	5. DO NOT RETROFIT (OR UPGRADE) ESTABLISHED SITES THAT DO NOT MEET ALL THE REQUIREMENTS OF VERIZON WIRELESS GROUNDING STANDARD UNLESS THERE ARE DOCUMENTED OCCURRENCES OF EQUIPMENT DAMAGES AND/OR SERVICE AFFECTING CONDITIONS.	ELECTRICAL EQUIPMENT ENCLSURE GENERATOR		UND ROD WITH ECTION SLEEVE
A	6. USE ONLY VERIZON WIRELESS-APPROVED MATERIALS SUCH AS COPPER FOR MOST ELECTRICAL WORK AND ALUMINUM FOR CERTAIN APPLICATIONS FOR SITE GROUNDING SYSTEM, ELECTRICAL PROTECTION COMPONENTS AND AC WIRING.	RECEPTACLE	$\bigcirc$	
	7. USE THE SAME METAL THROUGHOUT THE GROUND SYSTEM WHEN POSSIBLE	\$ LIGHT SWITCH		I AND NUMBER ONDUCTORS
Τ	8. IF DIFFERENT METALS MUST BE CONNECTED, BOND THEM BY EXOTHERMICALLY WELDING THEM TOGETHER.			
EMEN	9. USE TINNED COPPER WHEN CONNECTING TO GALVANIZED STEEL.	QUADPLEX OUTLET	TEST	WELL
LEASE AREA EXISTING EASEMENT	10. DO NOT BOND COPPER AND ALUMINUM TOGETHER UNLESS USING SPECIFICALLY DESIGNED EXOTHERMIC MATERIALS DESIGNED FOR THIS APPLICATION ARE USED OR A BIMETALLIC TRANSITIONAL CONNECTION IS UTILIZED.			
EASE	11. MAKE ALL BONDING ATTACHMENTS TO CLEAN, UNPAINTED METAL SURFACES OR USE APPROVED PAINT PIERCING WASHERS.	2 - ELECTRIC SYMBOLS LEGEN		
	12. PAINTED SURFACES MUST BE SCRAPED, CLEANED, AND LIGHTLY COATED WITH THE APPLICABLE COMPOUND.	1. SUBMITTAL OF BID INDICATES CONTRACTO JOB SITE CONDITIONS AND WORK TO BE PERI CONTRACT. CONTRACTOR IS RESPONSIBLE F	FORMED UNDER THIS	REQUIRED BY ALL AP
IENT	13. ALL INDOOR OR OUTDOOR POWER OR GROUNDING CONNECTIONS SHALL BE PROTECTED AGAINST CORROSION BY USE OF A THIN COATING OF ANTI-OXIDATION COMPOUND. A COPPER COSMOLINE GREASE BASED COMPOUND (NO OX-ID) SHALL BE USED ON ALL COPPER TO COPPER CONNECTIONS. A ZINC BASED (GREY COLORED) COMPOUND SHALL BE USED ON ALL COPPER TO STEEL CONNECTIONS. WHERE OTHER COMPOUNDS SUCH AS KOPPER-SHIELD ETC EXIST, THEY MAY BE 'GRANDFATHERED' IN PLACE. PENTROX GREASE OR AN APPROVED EQUAL SHALL BE USED ON ALL/MINUM CONNECTIONS.	VERIFICATION. 2. THESE PLANS ARE DIAGRAMMATIC ONLY, A 3. ELECTRICAL CONTRACTOR SHALL PROVIDE		<ol> <li>PATCH, REPAIR A</li> <li>IN THE COURSE OF TH</li> <li>IN DRILLING HOLE</li> <li>OR ANCHORING PURF</li> </ol>
ACCESS/UTILITY EASEMENT GEN. CONST./UTILITY EASEMENT	14. DO NOT WELD GROUNDING CONDUCTORS TO THE STRUCTURAL MEMBERS OF TOWERS, INCLUDING DOWN GUYS AND ANCHOR RODS.	MATERIALS, INSURANCE, EQUIPMENT, INSTAL TOOLS, TRANSPORTATION, ETC. FOR A COMP OPERATIVE SYSTEM ENERGIZED THROUGHOL DRAWINGS, AS SPECIFIED HEREIN AND/OR AS	LATION, CONSTRUCTION LETE AND PROPERLY JT AND AS INDICATED ON	FLOOR FOR CONDUIT UNDERSTOOD THAT T
JTILITY EA ST./UTILIT	15. BOND ALL METALLIC OBJECTS (SUCH AS WATER PIPES, CONDUITS, METAL FUEL TANKS WITHOUT CATHODIC PROTECTION, METAL FENCES, HVAC, ETC.) THAT ARE WITHIN 6 FEET (1.8 M) OF THE GROUND RING, OR FROM ANY OTHER GROUNDED CONDUCTOR, TO GROUND RING OR TO THE GROUNDED CONDUCTOR. HARDWARE	4. ALL MATERIALS AND EQUIPMENT SHALL BI CONDITION WHEN INSTALLED AND SHALL BE AND OF THE SAME MANUFACTURER THROUG	ENEW AND IN PERFECT OF THE BEST GRADE	18. LOCATION OF TER KNOWN AND THEREF METHODS AND EQUIP ACCURATELY LOCATE
CESS/	16. ALL OUTDOOR HARDWARE (BOLTS, SCREWS, NUTS, WASHERS) SHALL BE 18-8 STAINLESS STEEL TYPE GRADE. INDOORS, GRADE 5 STEEL HARDWARE MAY BE USED. CHOOSE BOLT LENGTH TO ALLOW THE EXPOSURE OF AT LEAST TWO THREADS.	OR GROUP OF EQUIPMENT. MATERIALS SHALI APPROVED BY UNDER- WRITER'S LABORATOF INSPECTION LABEL "J" WHERE SUBJECT TO S	Y AND SHALL BEAR THE	19. PENETRATIONS IN ACCORDANCE WIT
AC	17. WHEN BONDING TO A METALLIC OBJECT WHERE ACCESS IS LIMITED TO ONLY ONE SURFACE, USE DRILLING & TAPPING OR SELF DRILLING SCREWS. DO NOT USE SHEET METAL SCREWS.	MATERIALS SHALL MEET WITH APPROVAL OF INDUSTRIAL SAFETY AND ALL GOVERNING BO	THE DIVISION OF DIES HAVING	U.L. RATED MATERIAL
	18. ALL GROUNDING CONDUCTORS SHOULD PRESERVE A DOWNWARD TO HORIZONTAL COURSE AND BE AS STRAIGHT AS POSSIBLE AND AVOID SHARP TURNS.	JURISDICTION. MATERIALS SHALL BE MANUFA ACCORDANCE WITH APPLICABLE STANDARDS NEMA, AND NBFU.		20. ELECTRICAL CON COMPANY FOR CONN POWER TO THE SITE. COSTS SHALL BE PAIL
.Q. DUNDING	19. DO NOT USE U-SHAPED GROUNDING CONDUCTOR RUNS (U-TURNS IN THE WIRING) OR BONDING LAYOUTS TO REDUCE ARC- OVERS	5. ALL CONDUIT INSTALLED SHALL BE SURFACE OTHERWISE NOTED.	CE MOUNTED UNLESS	21. ELECTRICAL CON AND/OR CATALOG CU
EC. EQ. /GROUN	20. ALL GROUNDING CONDUCTS MUST BE RUN IN NONMETALLIC CONDUIT. ROUTE ALL CONDUCTORS THROUGH NONMETALLIC SLEEVES WHEN PENETRATING FLOORS, CEILINGS, AND WALLS.	6. ELECTRICAL CONTRACTOR SHALL CARRY ( ACCORDANCE WITH ALL GOVERNING STATE, AND O.S.H.A.		MATERIALS AND EQUI COMMENCEMENT OF
OVP/ELEC. EG POWER/GROL	<ol> <li>IF THE USE OF METALLIC CONDUIT CANNOT BE AVOIDED, BOND BOTH ENDS OF THE CONDUIT TO THE GROUNDING CONDUCTOR BEING ROUTED THROUGH THE CONDUIT</li> <li>KEEP LENGTHS OF CONDUCTORS TO A MINIMUM</li> </ol>	7. ELECTRICAL CONTRACTOR SHALL SECURE ELECTRICAL PERMITS, AND PAY ALL REQUIRE		22. UPON COMPLETIC SHORT CIRCUIT, AS W SHALL BE PERFORME WRITTEN REPORT SU
L	<ol> <li>USE MULTIPLE CONDUCTING PATHS. PARALLEL PATHS ARE ONLY DESIRABLE WHEN SENSITIVE ELECTRONIC EQUIPMENT IS NOT PART OF THE CONDUCTOR PATH</li> </ol>	8. COMPLETE JOB SHALL BE GUARANTEED FO THAN ONE YEAR AFTER THE DATE OF JOB CO MATERIAL, OR EQUIPMENT FOUND TO BE FAU	MPLETION. ANY WORK,	
ä	24. KEEP BENDS IN CONDUCTORS TO A MINIMUM.	PERIOD SHALL BE CORRECTED AT ONCE, UPO NOTIFICATION, AT THE EXPENSE OF THE ELEC		AND LEAVE WORK PR CONDITION.
MW/FIBER EQ. FIBER	25. THE MINIMUM INSIDE BENDING RADIUS IS: A. 6 INCHES (0.15M) FOR CONDUCTORS UP TO #6 GAUGE. B. 12 INCHES (0.3M) FOR CONDUCTORS #6 TO #4/0 GAUGE.	9. ALL CONDUIT ONLY (C.0.) SHALL HAVE A PU TRUE TAPE.	ILL WIRE OR ROPE, AND	24. ALL EXTERIOR WA POLYSEAM SEALANT.
MW/F FIBEF	C. 24 INCHES (0.6M) FOR CONDUCTORS #4/0 GAUGE AND LARGER 25.	10. PROVIDE THE OWNER WITH ONE SET OF AND CIRCUITS, WITHIN 10 WORKING DAYS O ELECTRICAL "AS BUILT" DRAWINGS, SHOWING	F PROJECT COMPLETION	BY 1/2" P.V.C. PIPE AN
L	METAL PLATES, OR SHORT SECTIONS OF METAL CONDUIT, AND MUST NEVER BE PLACE IN THE SAME CABLE RACK AS DC POWER CABLES, HIGH FREQUENCY CABLES, ETC.	11. ALL BROCHURES, OPERATING MANUALS, DRAWINGS, ETC. SHALL BE TURNED OVER TO		26. COMPRESSION FI SCREWS).
CABLES	<ol> <li>WHEN ATTACHING PVC CONDUITS TO ANY SURFACE UTILIZE NONCONDUCTIVE FASTENERS OR NONFERROUS FASTENERS ONLY.</li> <li>IF CONNECTIONS BETWEEN ALUMINUM CONDUCTORS AND STEEL OBJECTS MUST BE MADE, TINNED LUGS AND PENTROX SHALL BE USED. WHERE THERE ARE CONCERNS THAT THE PENTROX MAY NOT PROVIDE ADEQUATE INTERFACING, THEN A</li> </ol>	JOB COMPLETION. 12. USE T-TAP CONNECTIONS ON ALL MULTI-( NEUTRAL CONDUCTOR FOR LIGHTING FIXTUR SHALL BE COPPER.		27. ALL #6 STRANDED ATTACHED WITH CRIN BOLTS AND STAR WA LUG AND BUS BAR.
COAX C	BIMETAL SPLICE BETWEEN THE ALUMINUM CONDUCTOR AND A SHORT LENGTH OF COPPER CONDUCTOR MAY BE USED.	13. THE EXTERIOR GROUND RING SHALL BE 1		28. ALL ABOVE GROU CONDUIT WITH WEAT
BBU/RRH HYBRID & C	28. ALL OF THE BONDING AND GROUNDING CONDUCTORS SPECIFIED FOR ROOFTOP CELL AND MICROWAVE SYSTEMS IS BARE WIRE. INSULATED WIRE SHALL NOT BE SPECIFIED OR SUBSTITUTED FOR THE BONDING AND GROUNDING CONDUCTORS OF ROOFTOP INSTALLATIONS.	WIRELESS SPECIFICATIONS AND SHALL HAVE EARTH OF 5 OHMS OR LESS. IF NOT NOTIFY EI	NGINEER.	29. LABEL PANEL WIT LABEL).
BBU/ HYBF		14. ALL CIRCUIT BREAKERS, FUSES AND ELEC SHALL HAVE AN INTERRUPTING RATING NOT L MAXIMUM SHORT CIRCUIT CURRENT TO WHIC SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.	ESS THAN THE	* DATE OF JOB COMP CONTRACTOR'S "NOT OWNER.
	3-GROUNDING NOTES	1-ELECTRICAL NOTES		

ONE LINE I	ONE LINE DIAGRAM SYMBOLS								
	TRANSFORMER								
G	STAND-BY GENERATOR								
M	METER								
° •	AUTOMATIC TRANSFER SWITCH								
° •	INTEGRATED TRANSFER SWITCH								
$\square$	FUSED DISCONNECT								
	LOCAL DISCONNECT								
_^	CIRCUIT BREAKER								

ELECTRICAL INSTALLATION SHALL BE GROUNDED AS LL APPLICABLE CODES.

PAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED E OF THE ELECTRICAL WORK.

HOLES INTO CONCRETE (WHETHER FOR FASTENING FURPOSES OR PENETRATIONS THROUGH THE NDUIT RUNS, PIPE RUNS, ETC.) IT MUST BE CLEARLY ITAT TENDONS AND REBARS WILL NOT BE DRILLED DAMAGED UNDER ANY CIRCUMSTANCES.

OF TENDONS AND RE-BARS ARE NOT DEFINITELY IEREFORE MUST BE SEARCHED FOR BY APPROPRIATE EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN OCATE THE REINFORCING STEEL TENDONS.

ONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED E WITH APPLICABLE LOCAL BUILDING CODES. USING FERIALS

L CONTRACTOR IS TO COORDINATE WITH UTILITY CONNECTION OF TEMPORARY AND PERMANENT 5 SITE. THE TEMPORARY POWER AND ALL HOOK-UP 8E PAID BY THE CONTRACTOR.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL EQUIPMENT, TO PROJECT MANAGER PRIOR TO IT OF THE WORK.

PLETION OF WORK, CONDUCT CONTINUITY AND , AS WELL AS, GROUNDING TEST. GROUNDING TEST ORMED BY INDEPENDENT TESTING AGENCY, WITH RT SUBMITTED TO THE PROJECT MANAGER FOR PPROVAL.

MISES DAILY OF ALL DEBRIS RESULTING FROM WORK RK PREMISES IN A COMPLETE AND UNDAMAGED

OR WALL PENETRATIONS SHALL BE SEALED WITH LANT.

IED BARE COPPER DOWNLEADS TO BE PROTECTED IPE AND SECURED.

ION FITTINGS TO BE USED ON ALL CONDUITS (NO SET

ANDED COPPER WITH GREEN INSULATION TO BE H CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, IR WASHERS TYPICAL AND NO-OX GREASE BETWEEN

GROUND CONDUIT SHALL BE EMT GALVANIZED WEATHERPROOF FITTINGS.

EL WITH AVAILABLE FAULT VALUE (PERMANENT

COMPLETION SHALL BE THE DATE ON THE S "NOTICE OF COMPLETION" SUBMITTED TO THE verizon<sup>/</sup>

VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

PROJECT INFORMATION SITE NAME

## **DEN WAGON WHEEL**

4087 HARVEST LANE BRIGHTON, CO 80601

### CONSULTANT

### VERN WILLSON P.E.

3083 W HITE OAK ST. HIGHLANDS RANCH,CO 80129 PHONE:303.883.2208

 A
 11/09/17 CD REVIEW
 MKC

 B
 11/29/17 CLIENT COMMENTS
 MKC

1st REVIEW ERR 2nd REVIEW SGP

# CHARLES STECKEY

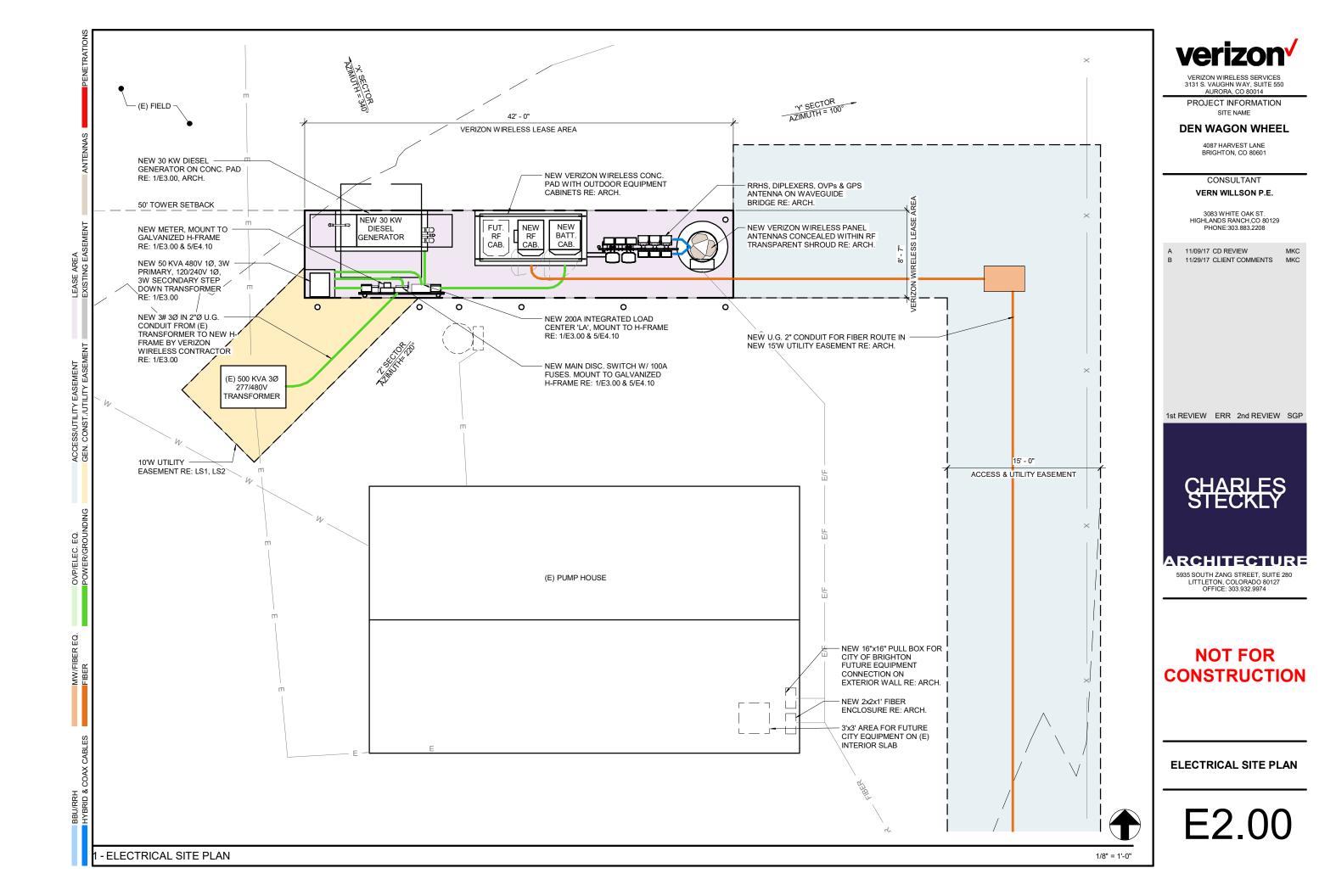
# 5935 SOUTH ZANG STREET, SUITE 280

935 SOUTH ZANG STREET, SUITE 280 LITTLETON, COLORADO 80127 OFFICE: 303.932.9974

# NOT FOR CONSTRUCTION

# ELECTRICAL NOTES & SYMBOLS

E1.00



NEL: LA

<u>120/ 240</u> VOLTS <u>1</u> PHASE <u>3</u> WIRES, SN, <u>200</u> AMP BUS <u>200</u> AMP MAIN <u>MCB</u>

10,000 A.I.C. RATING (MINIMUM), NEMA 3R ENCLOSURE, SURFACE ENCLOSURE

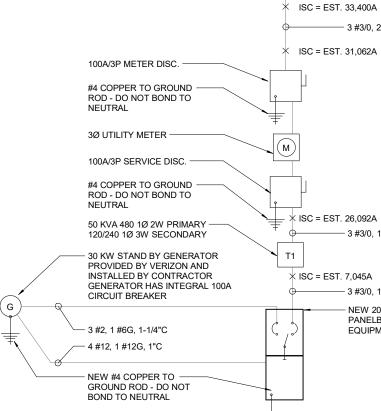
	DESCRIPTION	WIR	BKR	POLE	CKT	VA	Ø	VA	CKT	POLE	BKR	WIR	DESCRIPTION
	BATTERY CAB RECEPTACLE	# <b>F</b> 2	15	1	1	360	А	720	2	2	30	# <b>F</b> 10	BATTERY CABINET RECT 6
-	EXTERIOR LIGHTING	#12	20	1	3	600	В	720	4				
AS	BATTERY CABINET RECT 1	#10	30	2	5	720	А	720	6	2	30	#10	BATTERY CABINET RECT 7
ZZ					7	720	В	720	8				
NTENNA	BATTERY CABINET RECT 2	#10	30	2	9	720	Α	720	10	2	30	#10	BATTERY CABINET RECT 8
AN					11	720	В	720	12				
	BATTERY CABINET RECT 3	#10	30	2	13	720	Α	180	14	2	30	#12	RF CABINET A GFCI
					15	720	В	1000	16	2	20	#12	RF CABINET A AC UNIT
	BATTERY CABINET RECT 4	#10	30	2	17	720	Α	1000	18				
					19	720	В	1000	20	2	20	#12	RF CABINET B AC UNIT (FUT.)
_	BATTERY CABINET RECT 5	#10	30	2	21	720	Α	1000	22				
SEMENT					23	720	В	180	24	1	20	#12	RF CABINET B GFCI (FUT.)
Σ	BLOCK HEATER	#12	20	1	25	1000	А	-	26	-	-	-	SPARE
	BATTERY CHARGER	#12	20	1	27	1000	В	-	28	-	-	-	SPARE
ற் ப	SPACE	-	-	-	29	-	A	-	30	-	-	-	SPACE
	SPACE	-	-	-	31	-	В	-	32	-	-	-	SPACE
STIS	SPACE	-	-	-	33	-	Α	-	34	-	-	-	SPACE
EASE	SPACE	-	-	-	35	-	В	-	36	-	-	-	SPACE
	SPACE	-	-	-	37	-	Α	-	38	-	-	-	SPACE
	SPACE	-	-	-	39	-	В	-	40	-	-	-	SPACE
	SPACE	-	-	-	41	-	Α	-	42	-	-	-	SPACE

PHASE A: <u>9300</u> VOLTAMPS PHASE B: <u>9540</u> VOLTAMPS

### PANEL LOAD CALCULATIONS

SS/UTILITY EASEMENT CONST./UTILITY EASEM

LIGHTS	600	VOLTAMPS X 1.25 = <u>750</u> VOLTAMPS
RECEPTACLES- 1ST 10KVA	720	VOLTAMPS X 1.00 <u>720</u> VOLTAMPS
CABINET A AIR CONDITIONER	2000	∀OLTAMPS X 1.25 = <u>2500</u> VOLTAMPS
CABINET B AIR CONDITIONER	2000	VOLTAMPS X 1.00 = 2000 VOLTAMPS
RECTIFIER	11520	VOLTAMPS X 1.00 = <u>11520</u> VOLTAMPS
OTHER	2000	VOLTAMPS X 1.00 = 2000 VOLTAMPS
		<u>19490</u> TOTAL DEMAND
		81 AMPS,1Ø, 3W



(E) 500 KVA 3Ø 277/480V — TRANSFORMER

ACCES GEN. C	<u></u>	GROUND ROD - DO NOT BOND TO NEUTRAL
ovp/elec. Eq. Power/grounding		$\frac{FAULT CALCULATIONS}{A. SERVICE}$ $f = \frac{2 \times 20FT \times 33400A}{3 \times 13923 \times 480V} = 0.07$
MW/FIBER EQ. FIBER		$M = \frac{1}{1 + 0.07} = 0.93$ $Isc = 0.93 \times 33400A = 31062AIC$ $B. TRANSFORMER$ $f = \frac{2 \times 10FT \times 31062A}{13923 \times 480V} = 0.19$ $M = \frac{1}{1 + 0.19} = 0.84$
BBU/RRH HYBRID & COAX CABLES		$lsc = 0.84 \times 31062A = 26092AIC$ C. TRANSFORMER $f = \frac{2 \times 1.1 \times 26092A \times 240V}{50 \times 100,000} = 2.76$ $M = \frac{1}{1 + 2.76} = 0.27$
BBU/I	2-PANEL SCHEDULE	Isc = 0.27 x 26092A = 7045AIC 1 - ONE LINE DIAGRAM

ISC = EST. 33,400A

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- 3 #3/0, 2"C (EST. 20 L.F.)
- ISC = EST. 31,062A

- 3 #3/0, 1 #4G, 2"C (APPROX 10 L.F.)
- 3 #3/0, 1 #4G, 2"C (APPROX 10 L.F.)
- NEW 200A/2P ILC W/ ATS PANELBOARD "LA" FOR EQUIPMENT CABINET



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A 11/09/17 CD REVIEW MKC в 11/29/17 CLIENT COMMENTS MKC

1st REVIEW ERR 2nd REVIEW SGP

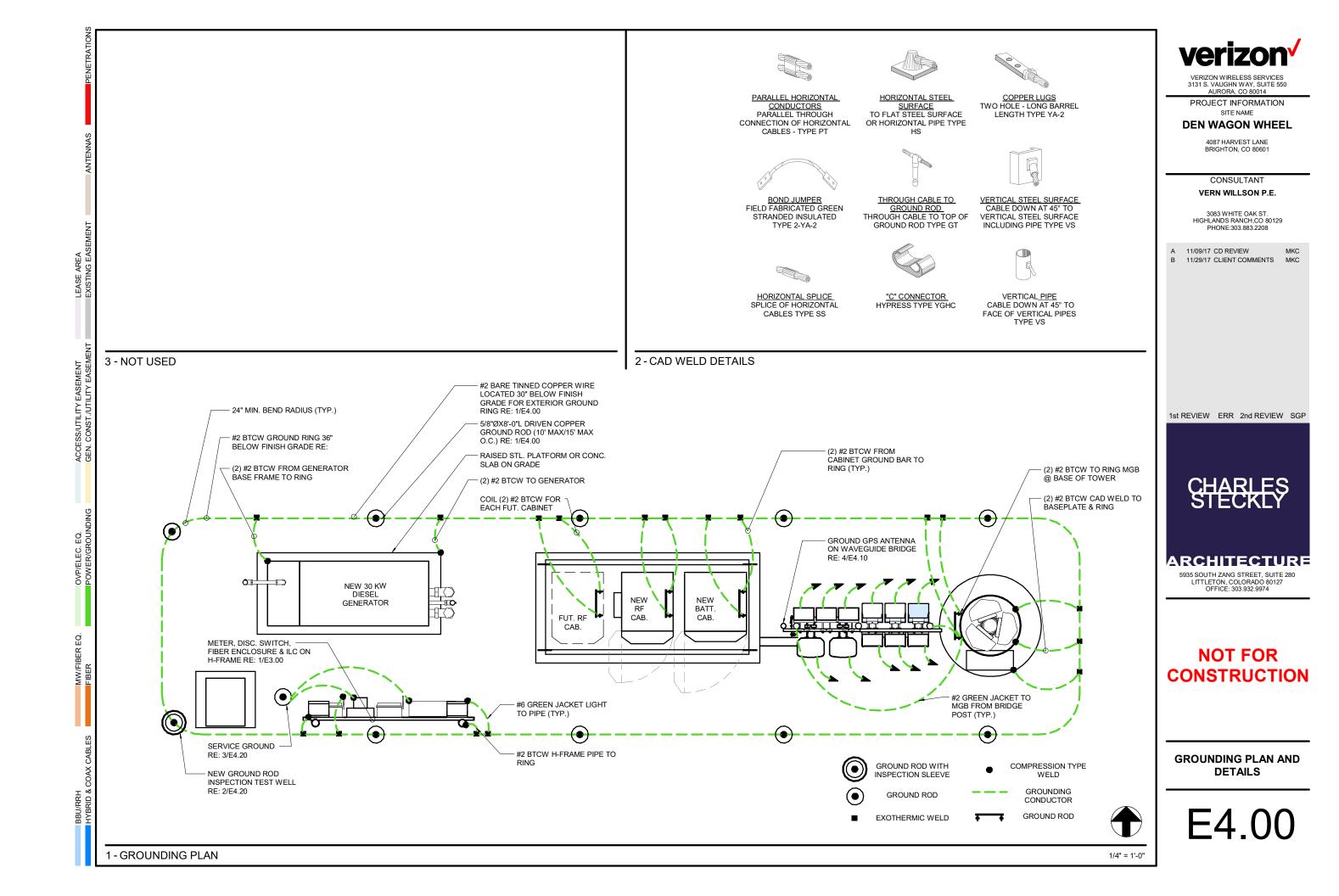
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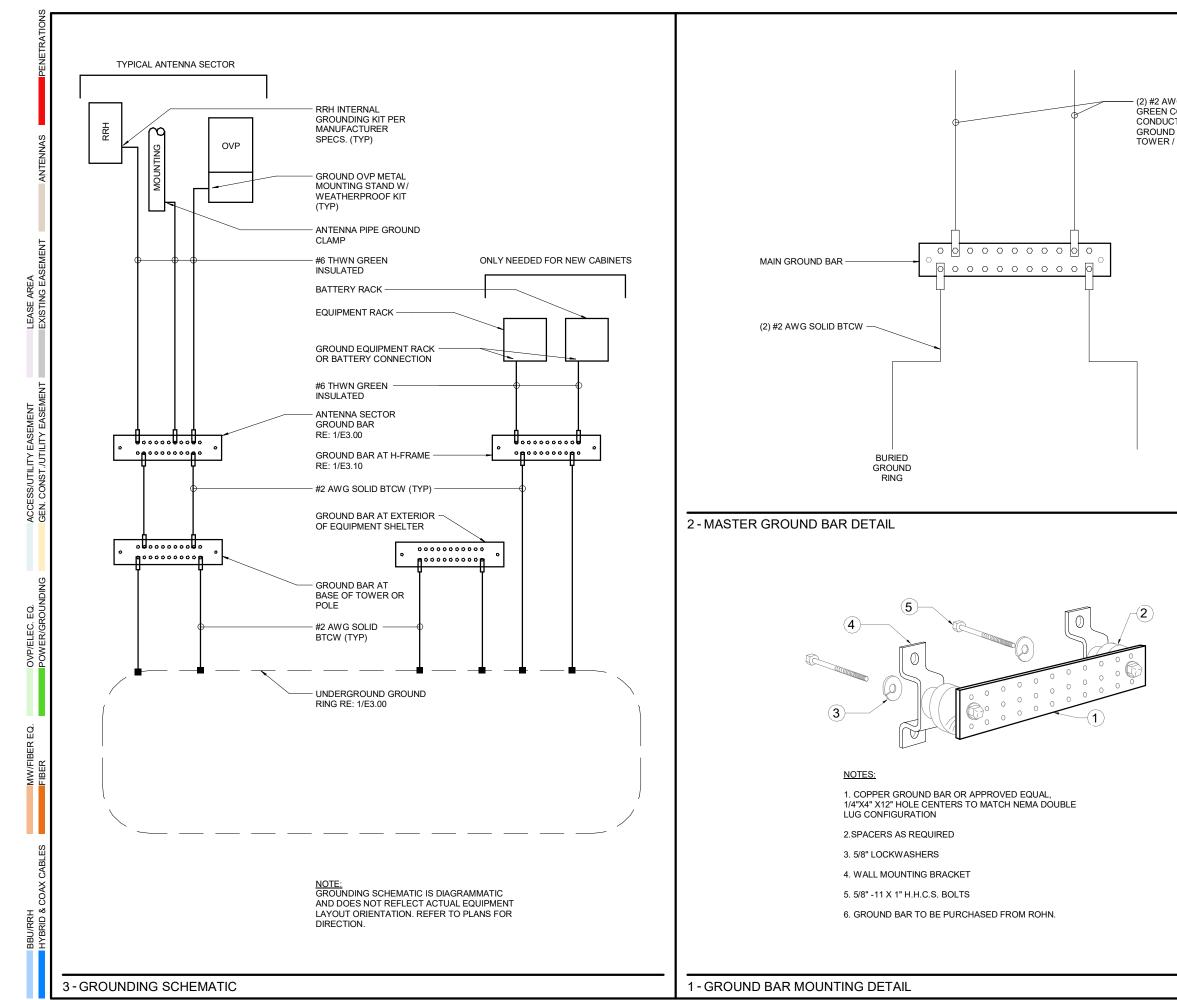


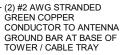
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## PANEL SCHEDULE & ONE LINE DIAGRAM

E3.00









VERIZON WIRELESS SERVICES 3131 S. VAUGHN WAY, SUITE 550 AURORA, CO 80014

PROJECT INFORMATION SITE NAME

# DEN WAGON WHEEL

4087 HARVEST LANE BRIGHTON, CO 80601

# CONSULTANT

1231'3083 W HITE OAK ST.LACE HIGHLANDS RANCH,CO 80129 IPHONE:303.883.2208'

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## GROUNDING SCHEMATIC & DETAILS

E4.10

