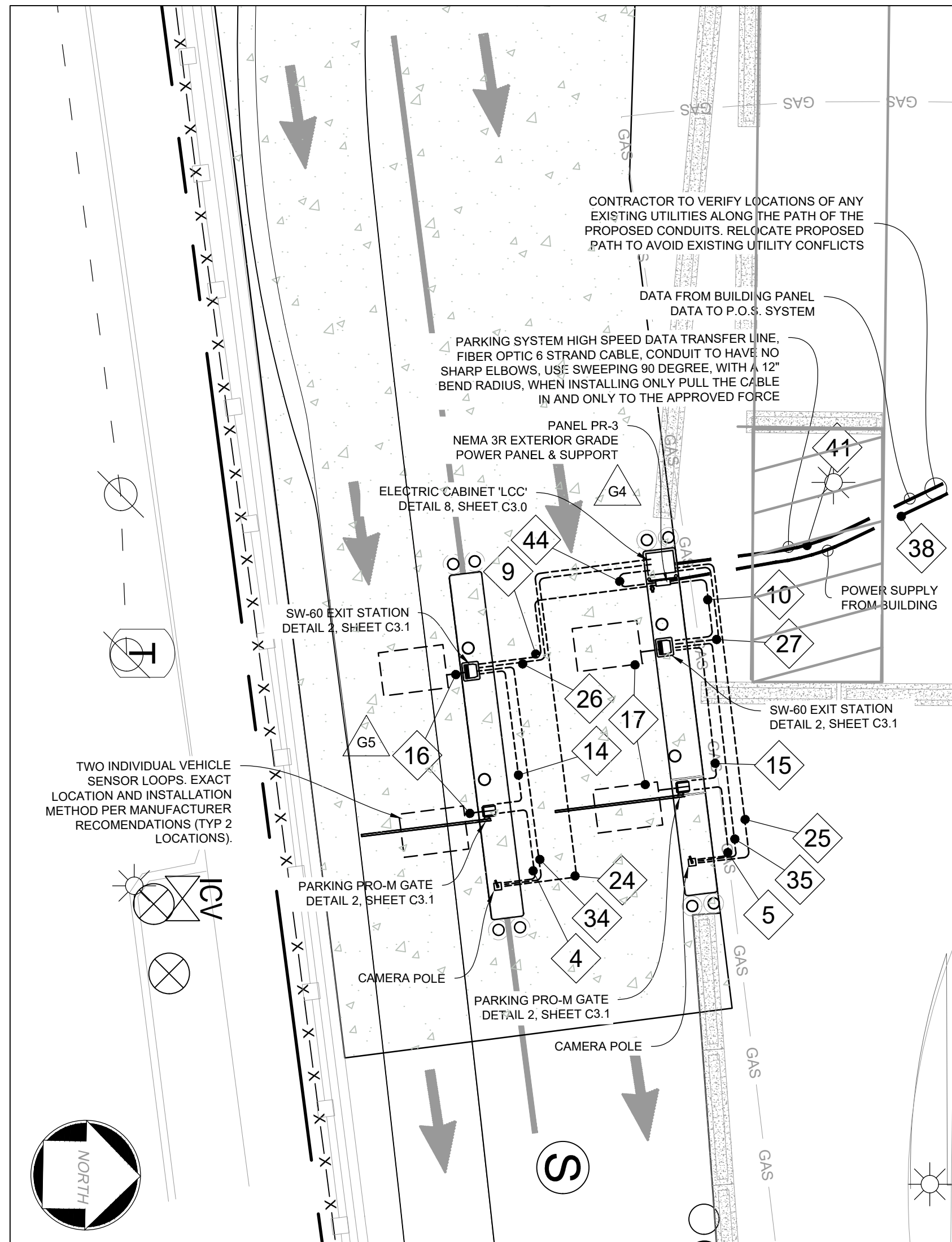
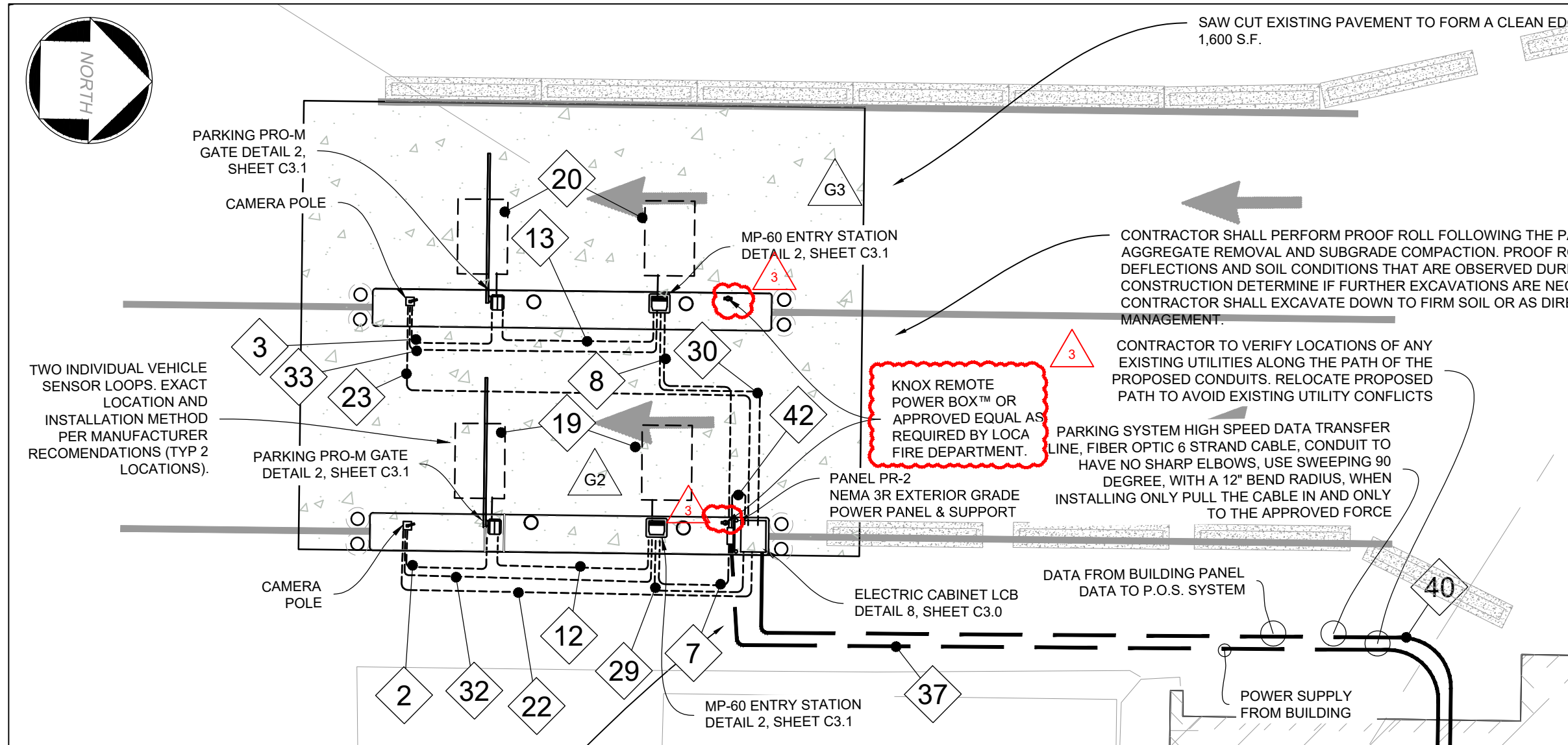


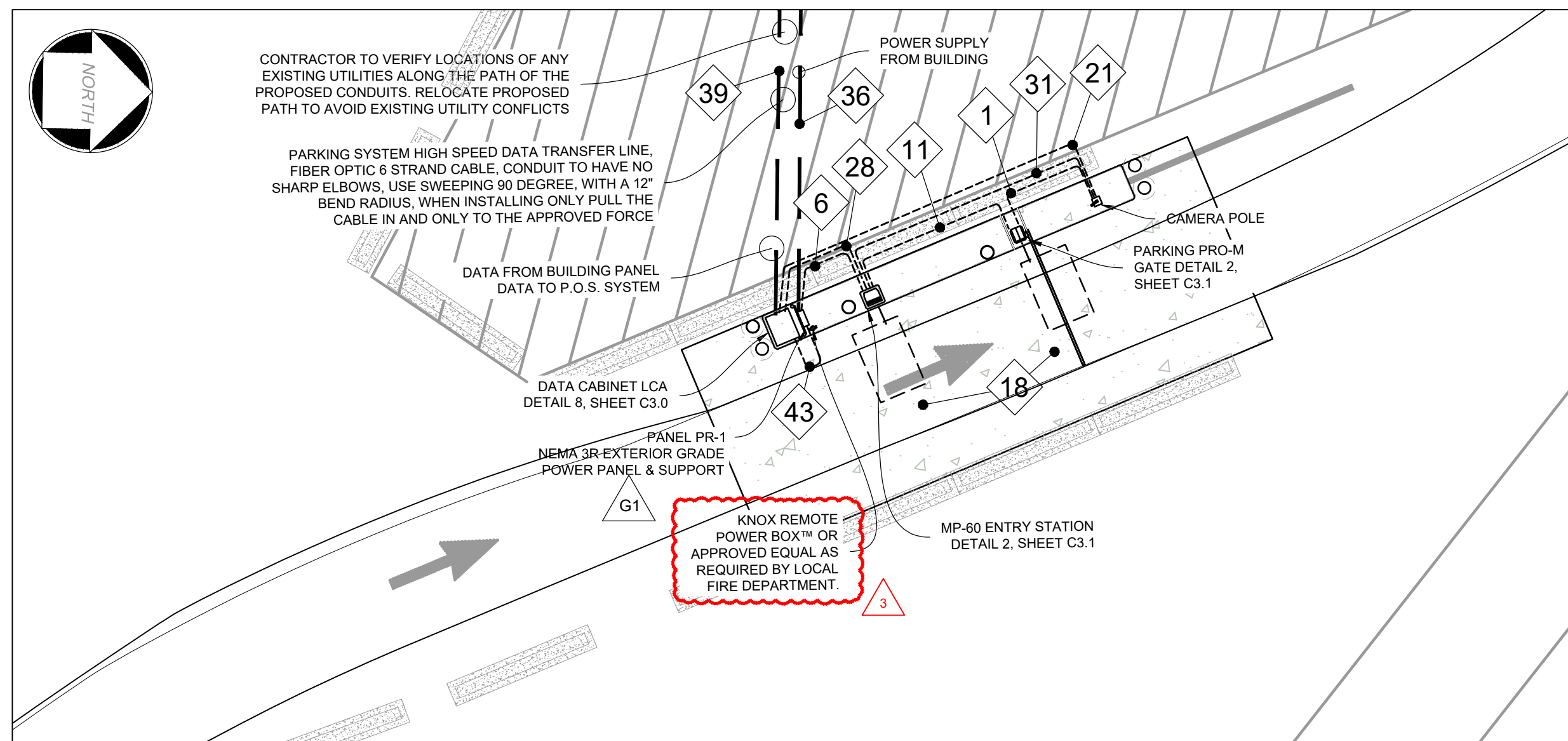
WORK AREA OVERALL CONDUIT PLAN
SCALE 1" = 60'



ENLARGED SOUTH EXIT (GATES 4 & 5) WORK AREA ROUTING CONDUIT PLAN
SCALE 1" = 10'



ENLARGED WEST ENTRANCE (GATES 2 & 3) WORK AREA ROUTING CONDUIT PLAN
SCALE 1" = 10'



ENLARGED NORTH ENTRANCE (GATE 1) WORK AREA ROUTING CONDUIT PLAN
SCALE 1" = 10'

CONDUIT SCHEDULE				
CONDUIT #	DESCRIPTION and NOMINAL SIZE	WIRE COUNT PER CONDUIT	ORIGIN	TERMINATION
1	CAMERA DATA/POWER (3/4")	(1) CAT6 DATA CABLE PER CONDUIT	GATE	CAMERA
2	CAMERA DATA/POWER (3/4")			
3	CAMERA DATA/POWER (3/4")			
4	CAMERA DATA/POWER (3/4")			
5	CAMERA DATA/POWER (3/4")			
6	MP-60 ENTRY STATION POWER (3/4")	(3) #12 AWG CONTROL WIRING WITH (1) #12 GROUND WIRE PER CONDUIT (VERIFY WIRE REQUIREMENTS FOR SENSOR PADS WITH MANUFACTURER PRIOR TO INSTALLATION)	PNL PR-1 PNL PR-2 PNL PR-2 PNL PR-3 PNL PR-3	ENTRY LANE DEVICE ENTRY LANE DEVICE EXIT LANE DEVICE EXIT LANE DEVICE
7	MP-60 ENTRY STATION POWER (3/4")			
8	MP-60 ENTRY STATION POWER (3/4")			
9	SW-60 EXIT STATION POWER (3/4")			
10	SW-60 EXIT STATION POWER (3/4")			
11	ENTRY PARKING PRO-M GATE POWER (3/4")	(2) #12 AWG CONTROL WIRING WITH (1) #12 GROUND WIRE PER CONDUIT (VERIFY WIRE REQUIREMENTS FOR SENSOR PADS WITH MANUFACTURER PRIOR TO INSTALLATION)	ENTRY LANE DEVICE EXIT LANE DEVICE EXIT LANE DEVICE/GATE ENTRY LANE DEVICE/GATE	GATE GATE SENSOR LOOPS SENSOR LOOPS
12	ENTRY PARKING PRO-M GATE POWER (3/4")			
13	ENTRY PARKING PRO-M GATE POWER (3/4")			
14	EXIT PARKING PRO-M GATE POWER (3/4")			
15	EXIT PARKING PRO-M GATE POWER (3/4")			
16	EXIT SENSOR PADS POWER (3/4")	(2) #12 AWG SENSOR WIRING WITHIN LOOP AREA (CONCRETE APRON) AND (3) #12 SHIELDED WIRE TO CONTROL UNIT (VERIFY WIRE REQUIREMENTS FOR SENSOR PADS WITH MANUFACTURER PRIOR TO INSTALLATION)	EXIT LANE DEVICE/GATE ENTRY LANE DEVICE/GATE ENTRY LANE DEVICE/GATE ENTRY LANE DEVICE/GATE	SENSOR LOOPS SENSOR LOOPS SENSOR LOOPS SENSOR LOOPS
17	EXIT SENSOR PADS POWER (3/4")			
18	ENTRY SENSOR PADS POWER (3/4")			
19	ENTRY SENSOR PADS POWER (3/4")			
20	ENTRY SENSOR PADS POWER (3/4")			
21	DATA WIRING TO CAMERA (1")	(3) CAT6 DATA CABLE PER CONDUIT	CABINET/LCA CABINET/LCB CABINET/LCB CABINET/LCC CABINET/LCC	CAMERA CAMERA CAMERA CAMERA CAMERA
22	DATA WIRING TO CAMERA (1")			
23	DATA WIRING TO CAMERA (1")			
24	DATA WIRING TO CAMERA (1")			
25	DATA WIRING TO CAMERA (1")			
26	DATA WIRING TO SW-60 EXIT STATION (1")	(3) CAT6 DATA CABLE PER CONDUIT	CABINET/LCC	EXIT LANE DEVICE
27	DATA WIRING TO SW-60 EXIT STATION (1")	(3) CAT6 DATA CABLE PER CONDUIT	CABINET/LCC	EXIT LANE DEVICE
28	DATA WIRING TO MP-60 ENTRY STATION (1")	(2) CAT6 DATA CABLE PER CONDUIT	CABINET/LCA	ENTRY LANE DEVICE
29	DATA WIRING TO MP-60 ENTRY STATION (1")	(2) CAT6 DATA CABLE PER CONDUIT	CABINET/LCB	ENTRY LANE DEVICE
30	DATA WIRING TO MP-60 ENTRY STATION (1")	(2) CAT6 DATA CABLE PER CONDUIT	CABINET/LCB	ENTRY LANE DEVICE
31	DATA WIRING TO CAMERA (1")	18/4 UNSHIELDED COPPER WIRE	ENTRY LANE DEVICE EXIT LANE DEVICE EXIT LANE DEVICE EXIT LANE DEVICE EXIT LANE DEVICE	CAMERA CAMERA CAMERA CAMERA CAMERA
32	DATA WIRING TO CAMERA (1")			
33	DATA WIRING TO CAMERA (1")			
34	DATA WIRING TO CAMERA (1")			
35	DATA WIRING TO CAMERA (1")			

CONDUIT SCHEDULE (CONT.)				
CONDUIT #	DESCRIPTION and NOMINAL SIZE	WIRE COUNT PER CONDUIT	ORIGIN	TERMINATION
36	ELECTRIC CABINET POWER (1-1/4")	(3)#2 AWG & (1)#8 AWG GND - 1 1/4" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	BUILDING POWER PANEL	PNL PR-1
37	ELECTRIC CABINET POWER (1-1/4")	(3)#2 AWG & (1)#8 AWG GND - 1 1/4" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	BUILDING POWER PANEL	PNL PR-2
38	ELECTRIC CABINET POWER (1-1/4")	(3)#2 AWG & (1)#8 AWG GND - 1 1/4" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	BUILDING POWER PANEL	PNL PR-3
39	DATA WIRING (1")	6-STRAND SINGLEMODE FIBER OPTIC CABLE	BUILDING NETWORK PANEL	CABINET/LCA
40	DATA WIRING (1")			CABINET/LCB
41	DATA WIRING (1")			CABINET/LCC
42	ELECTRIC CABINET POWER (1")	2-10 AWG & 1-10 AWG GND - 1" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	PNL PR-1	CABINET/LCA
43	ELECTRIC CABINET POWER (1")		PNL PR-2	CABINET/LCB
44	ELECTRIC CABINET POWER (1")		PNL PR-3	CABINET/LCC

*ELECTRICIAN TO DETERMINE REQUIRED WIRE AND CONDUIT SIZE BASED ON LENGTH OF RUN FROM ELECTRICAL CABINET TO BUILDING ELECTRICAL PANEL.

ELECTRICIAN TO VERIFY REQUIRED WIRE & CONDUIT SIZE BASED ON LENGTH OF RUN FROM ELECTRICAL CABINET TO BUILDING ELECTRICAL PANEL.

GENERAL NOTES

- REFER TO WELLERT CORPORATION'S CIVIL PLANS FOR ADDITIONAL DETAILS.
- THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONDUIT PENETRATIONS THRU ISLANDS AND BUILDINGS ARE DEPICTED FOR REFERENCE ONLY. ACTUAL LOCATIONS OF PENETRATIONS SHALL BE PER EQUIPMENT MANUFACTURER SPECIFICATIONS, REFERENCED DETAILS AND FIELD DETERMINATIONS.
- ALL WIRING AND CONDUIT FOR POWER AND DATA, AND RELATED EQUIPMENT TO BE PROVIDED AND INSTALLED BY PROJECT ELECTRICIAN. FOR EACH ELECTRICAL RACEWAY SYSTEM INDICATED, PROVIDE A COMPLETE ASSEMBLY OF CONDUIT WITH FITTINGS INCLUDING, BUT NOT NECESSARILY LIMITED TO, CONNECTORS, NIPPLES, COUPLINGS, EXPANSION FITTINGS, BUSHINGS, LOCKOUTS AND OTHER COMPONENTS AND ACCESSORIES AS NEEDED TO FORM A COMPLETE SYSTEM FOR THE TYPE INDICATED AND AS REQUIRED BY NFPA 70, LATEST EDITION.
- ALL CONDUITS SHALL BE RIGID NON-METALLIC CONDUIT (PVC COMPLYING WITH NFPA 70 ARTICLE 352) WHERE PERMITTED BY NFPA 70.
- PROVIDE GROUNDING AND BONDING OF ALL METAL RACEWAYS, THE METAL ARMOR OR METALLIC SHEATH ON CABLES, AND ALL NON-CURRENT-CARRYING METAL PARTS REGARDLESS OF VOLTAGE AS REQUIRED BY NFPA 70. GROUNDING AND BONDING SHALL COMPLY WITH N.E.C. REQUIREMENTS.
- VERIFY THE EXACT LOCATION AND MOUNTING HEIGHTS OF WALL, FLOOR AND CEILING MOUNTED DEVICES AND EQUIPMENT WITH THE EXISTING CONDITIONS BEFORE ROUGH-IN OF THE ELECTRICAL WORK. DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO ROUGH-IN.
- COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE CIVIL PLANS TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS AND EQUIPMENT.
- ALL WIRE FOR POWER AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE COPPER.
- INDOOR WIRING NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE RUN IN EMT THIN-WALL CONDUIT. RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT SHALL BE INSTALLED IN LOCATIONS WHERE SUBJECT TO SEVERE PHYSICAL DAMAGE. TYPE MC CABLE MAY BE INSTALLED CONCEALED WITHIN WALL AND CEILING SPACES FOR BRANCH CIRCUIT WIRING.
- UNDERGROUND WIRING SHALL BE INSTALLED IN PVC SCHEDULE 40 CONDUIT AND AT 24" MINIMUM BELOW DRIVES AND PARKING SURFACES, TRANSITION TO RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT WHEN TRANSITIONING FROM BELOW GRADE TO ABOVE GRADE.
- FIRE SEAL OPENINGS AROUND ALL CONDUIT PENETRATIONS TO BUILDINGS. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED WITH LISTED FIRE RATED MATERIALS.
- ALL COMPONENTS FOR ELECTRICAL EQUIPMENT TO BE INSTALLED WILL BE UL RATED, BEAR THE UL SEAL AND BE STATE APPROVED.
- PANEL DIRECTORIES ARE REQUIRED TO BE UPDATED BY THE ELECTRICAL CONTRACTOR PRIOR TO OBTAINING FINAL OCCUPANCY. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO TRACE EXISTING BRANCH CIRCUIT WIRING THAT IS TO BE MODIFIED AS PART OF THIS CONTRACT, UPDATE THE PANEL DIRECTORIES IN THE FIELD, AND MEASURE LOAD READINGS ON THE PANELS TO ENSURE THAT NO PANEL OR BRANCH CIRCUIT SERVING THE SPACE IS OVERLOADED.
- PROVIDE LABELS FOR NEW PANEL BOARDS TO WARN OF POTENTIAL ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16(A).
- PROVIDE LABEL TO INDICATE MAXIMUM AVAILABLE FAULT CURRENT AT SERVICE EQUIPMENT IN ACCORDANCE WITH NEC 110.24(A).
- DO NOT INSTALL ANY NEW ELECTRICAL EQUIPMENT IN EXISTING HAZARDOUS LOCATIONS.
- PARKING SYSTEMS OVER 300 FEET FROM THE NETWORK SYSTEM, THE CAT6 CABLE WILL REQUIRE A SIGNAL EXTENDER TO BE INSTALLED, CONTRACTOR TO VERIFY REQUIREMENTS AND INSTALL EQUIPMENT AS NECESSARY TO CORRECT FUNCTION.
- FIBER OPTIC CABLE TO CAT 6 CONVERTER WILL BE REQUIRED. USE TRENDNET (T1-F115FP) WITH POWER TRANSFORMER TRENDNET TI-M024, AND FIBER OPTIC CONNECTOR TRENDNET TI-MGSX.
- TIBA PARKING SYSTEMS #MP-60 ENTRY STATION, 120/208V, 1 PHASE, 0.8 KW. PROVIDE AND INSTALL 3-12 AWG & 1-12 AWG GND - 3/4" C. FOR POWER TO EQUIPMENT. ALSO PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLE TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.
- TIBA PARKING SYSTEMS #PRO-M-T PARKING GATE, 120/208V, 1 PHASE, 0.1 KW. PROVIDE AND INSTALL 3-12 AWG & 1-12 AWG GND - 3/4" C. FOR POWER TO EQUIPMENT. ALSO PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLE TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS AND WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.
- VEHICLE SENSOR LOOP, 120V, 1 PHASE, 0.2 KW PRESUMED. PROVIDE AND INSTALL 3-12 AWG - 3/4" C. FOR POWER TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS AND WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.
- CAMERA POLE, 12V D.C, 0.2 KW PRESUMED. PROVIDE AND INSTALL CAT6 CABLE - 3/4" C. FOR POWER TO EQUIPMENT. ALSO, PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLE TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.
- TIBA PARKING SYSTEMS #SW-60 EXIT STATION, 120/208V, 1 PHASE, 0.8 KW. PROVIDE AND INSTALL 3-12 AWG & 1-12 AWG GND - 3/4" C. FOR POWER TO EQUIPMENT. ALSO PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLE TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.
- PROPOSED CONDUIT ROUTING TO EXISTING ELECTRICAL ROOM. ROUTE CONDUITS OVERHEAD IN EXISTING BUILDING, AND COORDINATE EXACT ROUTING IN FIELD WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.

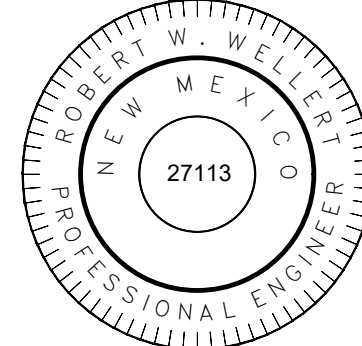
CLIENT:



CONSULTANT:



NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT
1	08/01/2024	REVISED CONCRETE PADS AND BARRIER PLACEMENT
2	10/22/2024	REVISED STORAGE TRAILERS AND TIRE STORAGE LOCATIONS
3	12/17/2024	REVISED PER CITY COMMENTS



PROJECT TITLE

TA FACILITY #081
NEW PARKING
GATE
NEW PARKING
GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

SCALE: AS STATED

DATE: 06/10/2024

DESIGNED BY: SMW

DRAWN BY: SMW

CHECKED BY: RWW

FILE NAME: 240117-C #081 Parking Gate.dwg

JOB NUMBER: 240117

DRAWING TITLE:

CONDUIT PLAN

SHEET NO:

E1.0

