PATHWAY LEGEND

- RED CONDUIT / TRENCH: RNG WEST ENTRY 1
- BLUE CONDUIT / TRENCH: RNG EAST ENTRY 1
- GREEN CONDUIT / TRENCH: RNG EAST ENTRY 2
- BLACK CONDUIT / TRENCH: NON-PRODUCTION CONDUIT DUCTBANK
- BLACK DASHED: APPROXIMATE ROOM LOCATION FOR REFERENCE. REFER TO ASSOCIATED KEYED NOTES FOR ADDITIONAL INFORMATION.

KEY NOTES

Key Number	Comments
1	EXTEND (1) 110MM CONDUIT FOR SECURITY USE FROM VAULT AS SHOWN. COORDINATE CONDUIT STUB-UP ON INTERIOR BUILDING WALL ADJACENT TO ENTRY DOOR.
2	EXTEND (3) 110MM CONDUITS FROM VAULT AS SHOWN. COORDINATE CONDUIT STUB-UP ON INTERIOR BUILDING WALL. REFER TO ENLARGED PLAN NOTED FOR ADDITIONAL INFORMATION.
3	EXTEND CONDUITS FROM VAULT AS SHOWN. REFER TO SHEET T-D-100 FOR ADDITIONAL INFORMATION.
4	CONDUIT EXTENDED FROM VAULT AS SHOWN. REFER TO ENLARGED PLAN NOTED ON THIS SHEET FOR ADDITIONAL INFORMATION.
5	EXTEND (1) 50MM CONDUIT FROM VAULT / TRENCH SHOWN TO SITE LIGHTING POLE FOR CAMERA DEVICE CABLING. COORDINATE FINAL STUB-UP WITH POLE INSTALLER PRIOR TO STARTING THIS WORK.
6	EXTEND (1) 4-STRAND SMF FROM THIS CAMERA LOCATION TO SER1 ROOM WITHIN MIL01 BUILDING. REFER TO MIL02 - T-F-200 SHEET FOR ADDITIONAL INFORMATION. REFER TO SECURITY DESIGN DRAWINGS FOR ADDITIONAL INFORMATION.
7	COORDINATE FINAL VAULT LOCATION WITH CONDUIT STUBS FROM MIL01 DESIGN PACKAGE. COORDINATE MIL01 CONDUIT CONNECTIONS TO VAULT PRIOR TO INSTALLING THIS VAULT.
8	(12) 110MM NON-PRODUCTION CONDUITS.
9	EXTEND (6) 110MM CONDUITS FROM VAULT TO SUBSTATION BUILDING AS SHOWN. COORDINATE CONDUIT STUB-UP LOCATION WITHIN SUBSTATION PRIOR TO STARTING THIS WORK. REFER TO SUBSTATION ENLARGED PLAN NOTED ON THIS SHEET FOR ADDITIONAL INFORMATION.

KEY NOTES

Key Number	Comments
10	(24) 110MM CONDUITS. CONDUITS SHOWN IN RED INDICATE THE SITE ROUTING FOR THE RED (WEST) PRODUCTION NETWORK ROUTING. CONDUITS SHOWN IN BLUE/GREEN INDICATE THE SITE ROUTING FOR THE BLUE (EAST) PRODUCTION NETWORK ROUTING.
11	EXTEND (1) 50MM CONDUIT FROM SUBSTATION #1 TO GATE AS SHOWN. COORDINATE FINAL CONDUIT STUB-UP LOCATION WITH SECURITY INSTALLER AND GATE INSTALLER PRIOR TO STARTING THIS WORK. PROVIDE CONDUIT HANDHOLES AS NECESSARY TO ACCOMMODATE BENDS AS SPECIFIED. REFER TO SECURITY AND TELECOM SPECIFICATIONS AS NECESSARY.
12	EXTEND (3) 110MM CONDUITS FROM SUBSTATION #1 TO THIS LOCATION AS INDICATED. SEE ENLARGED PLAN NOTED FOR ADDITIONAL INFORMATION.
13	EXTEND (6) 110MM CONDUITS FROM VAULT AS SHOWN. COORDINATE CONDUIT STUB-UP ON INTERIOR BUILDING WALL REFER TO ENLARGED PLAN NOTED FOR ADDITIONAL INFORMATION.
14	EXTEND (1) 50MM CONDUIT FROM SECURITY DOG BOX LOCATION TO POLE FOR CAMERA DEVICE CABLING. COORDINATE FINAL STUB-UP LOCATIONS WITH POLE INSTALLER AND SECURITY INSTALLER PRIOR TO STARTING THIS WORK. REFER TO THE AREA ENLARGED PLAN FOR ADDITIONAL INFORMATION.
15	MIL02 MMR1 (WEST) ROOM SHOWN FOR REFERENCE ONLY. REFER TO SHEET MIL02 - T-D-100 FOR ADDITIONAL INFORMATION.
16	MIL02 MMR2 (EAST) ROOM SHOWN FOR REFERENCE ONLY. REFER TO SHEET MIL02 - T-D-100 FOR ADDITIONAL INFORMATION.
17	APPROXIMATE LOCATION OF RNG WITHIN MIL01 BUILDING. REFER TO SHEET MIL01 - T-D-100 WITHIN THIS PACKAGE FOR ADDITIONAL INFORMATION.

KEY NOTES

Key Number	Comments
18	APPROXIMATE LOCATION OF IDF WITHIN MIL01 BUILDING). REFER TO SHEET MIL01 - T-D-100 WITHIN THIS PACKAGE FOR ADDITIONAL INFORMATION.
19	APPROXIMATE LOCATION OF MIL01 MMR1 (WEST). REFER TO SHEET MIL01 - T-D-100 WITHIN THIS PACKAGE FOR ADDITIONAL INFORMATION.
20	APPROXIMATE LOCATION OF MIL01 MMR2 (EAST). REFER TO SHEET MIL01 - T-D-100 WITHIN THIS PACKAGE FOR ADDITIONAL INFORMATION.
21	PROVIDE (1) 50MM CONDUIT FROM GATE AT THIS LOCATION TO THE SUBSTATION 1 BUILDING. COORDINATE WITH SECURITY INSTALLER PRIOR TO STARTING THIS WORK.
22	YELLOW LINE INDICATES SITE FENCING AND IS SHOWN FOR REFERENCE ONLY.
23	PROVIDE (1) 25MM CONDUIT FROM NEAREST TELECOM VAULT TO ELECTRIC VEHICLE CHARGING STATION. COORDINATE INSTALLATION WITH ELECTRICAL INSTALLATION PRIOR TO STARTING THIS WORK. PROVIDE (1) OUTDOOR RATED CAT6 CABLE FROM CHARGING STATION PEDESTAL TO MIL02 MMR-2 ROOM. TERMINATE THIS CABLE ON DIN RAIL MOUNTED SURGE SUPPRESSION UNIT ON WALL IN MMR ROOM. EXTEND (1) INDOOR RATED CAT6 CABLE FROM PROTECTOR BLOCK TO FCR ROOM AND TERMINATE THIS CABLE ON TOP PATCH PANEL WITHIN FCR.R2 RACK. REFER TO DETAIL 8 ON SHEET MIL02 - T-E-410 FOR ADDITIONAL INFORMATION. COORDINATE TERMINATION OF CABLING AT CHARGING STATION WITH CHARGING STATION INSTALLER.
24	PROVIDE (1) 50MM CONDUIT FROM GATE AT THIS LOCATION TO THE TELECOM VAULT T-C03A AS SHOWN. COORDINATE WITH SECURITY INSTALLER PRIOR TO STARTING THIS WORK.

KEY NOTES

Key Number	Comments
25	PROVIDE (1) 50MM CONDUIT FROM GATE AT THIS LOCATION TO THE OFFICE WITHIN WATER TREATMENT BUILDING AS SHOWN. PROVIDE SECURITY APPROVED HANDHOLES AS NECESSARY TO ACCOMMODATE BENDS AS SPECIFIED. REFER TO SECURITY AND TELECOM SPECIFICATIONS AS NECESSARY. COORDINATE WITH SECURITY INSTALLER PRIOR TO STARTING THIS WORK. REFER TO SHEET MIL02 - T-X-316 FOR ADDITIONAL INFORMATION.
26	PROVIDE (1) 110 MM CONDUIT FOR TELECOMMUNICATIONS AND (1) 110 MM CONDUIT FOR SECURITY FROM ELECTRICAL ROOM TO MV SWITCHBOARD EQUIPMENT.
27	PROVIDE (1) 110 MM CONDUIT FOR TELECOMMUNICATIONS AND (1) 50MM CONDUIT FOR SECURITY FROM ELECTRICAL ROOM TO GENERATOR EQUIPMENT.
28	PROVIDE (1) 110 MM CONDUIT FOR TELECOMMUNICATIONS AND (1) 110MM CONDUIT FOR SECURITY FROM ELECTRICAL ROOM TO TRANSFORMER EQUIPMENT.
29	PROVIDE (1) 110 MM CONDUIT FOR SECURITY FROM ADMIN ELECTRICAL ROOM TO GATE POST.
30	PROVIDE (1) 110 MM CONDUIT FOR TELECOMMUNICATIONS AND (1) 50MM CONDUIT FOR SECURITY FROM ADMIN ELECTRICAL ROOM TO GENERATOR EQUIPMENT.
31	PROVIDE (1) 110 MM CONDUIT FOR TELECOMMUNICATIONS AND (1) 110MM CONDUIT FOR SECURITY FROM ADMIN ELECTRICAL ROOM TO TRANSFORMER EQUIPMENT.
32	PROVIDE (1) 75 MM CONDUIT FROM HOLDING TANK VALVES AT THIS LOCATION TO TELECOM TRENCH AS SHOWN.

KEY NOTES

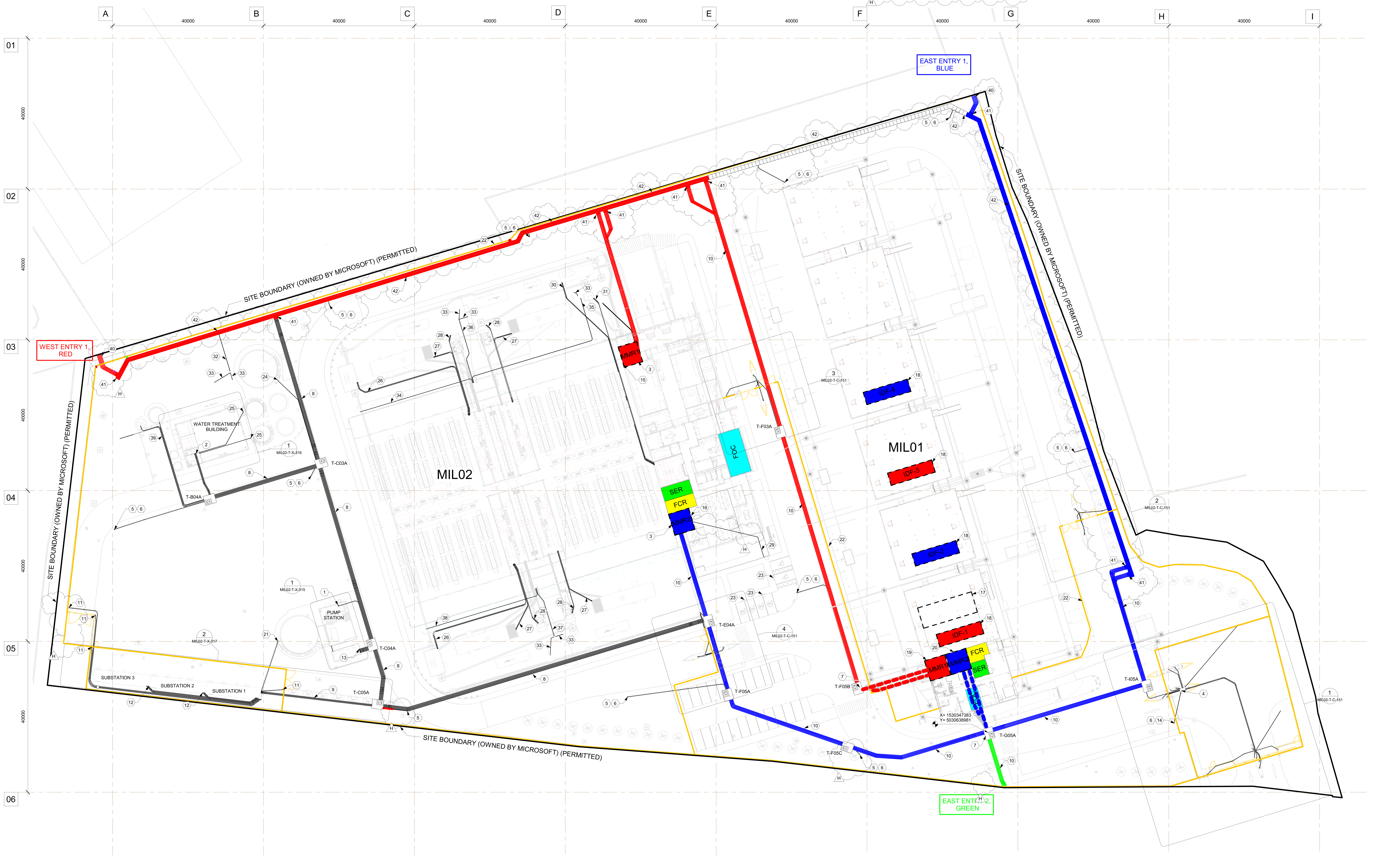
Key Number	Comments
33	PROVIDE (1) 50 MM CONDUIT FROM HOLDING TANK VALVES AT THIS LOCATION TO FLOW METER AS SHOWN.
34	PROVIDE (1) 50 MM CONDUIT FROM BLOWDOWN METER AT THIS LOCATION TO WATER RISER ROOM AS SHOWN.
35	PROVIDE (1) 75 MM CONDUIT FROM LOCKDOWN VALVE AND OIL INTERCEPTOR AT THIS LOCATION TO WATER RISER ROOM AS SHOWN..
36	PROVIDE (1) 110 MM CONDUIT FROM LOCKDOWN VALVE AND OIL INTERCEPTOR AT THIS LOCATION TO WATER RISER ROOM AS SHOWN.
37	PROVIDE (1) 110 MM CONDUIT FROM LOCKDOWN VALVE AND OIL INTERCEPTOR AT THIS LOCATION TO WATER RISER ROOM AS SHOWN.
38	PROVIDE (1) 50 MM CONDUIT FROM BLOWDOWN METER AT THIS LOCATION TO WATER RISER ROOM AS SHOWN.
39	PROVIDE (1) 75 MM CONDUIT FROM OIL SEPARATOR, RESIN AND FILTER BACK WASH TANK AT THIS LOCATION TO TELECOM VAULT AS SHOWN.
40	EXTEND (12) 110MM CONDUITS FROM TRENCH SYSTEM TO PROPERTY LINE AS SHOWN. COORDINATE WITH SERVICE PROVIDER THE INTERCEPT OF (1) OF THESE CONDUITS PRIOR TO STARTING THIS WORK. CAP THE REMAINING CONDUITS AT THE PROPERTY LINE FOR FUTURE USE. THE COLOR OF CONDUITS SHOWN AT THIS LOCATION INDICATES THE PRODUCTION BACKBONE ASSOCIATED WITH THIS PROVIDER ENTRY LOCATION. RED = WEST AND BLUE / GREEN = EAST.
41	INSTALL TRENCH SYSTEM TEE-FITTING AND 'STOP END' FITTINGS WHERE NECESSARY AT THIS LOCATION AND EXTEND (12) 110MM CONDUITS INTO 'STOP END' FITTING AS SHOWN. PROVIDE CONCRETE ENCASEMENT PER SPECIFICATIONS AND CIVIL DETAILS FOR THIS AREA.
42	INSTALL SURFACE TRENCH SYSTEM AS SHOWN. REFER TO MANUFACTURER'S INSTALLATION GUIDELINES AND CIVIL DRAWINGS REGARDING INSTALLATION DETAILS AND DIMENSIONS.

GENERAL NOTES - OSP PLAN

Key Name	Comments
A	TELECOMMUNICATIONS PATHWAYS ARE SHOWN SCHEMATICALLY. CONTRACTOR RESPONSIBLE FOR COORDINATION OF TELECOMMUNICATIONS PATHWAYS LOCATIONS AND INSTALLATION, WITH OWNER AND OTHER TRADES PRIOR TO THE START OF INSTALLATION.
B	TELECOMMUNICATIONS SYSTEMS INSTALLATIONS TO ADHERE TO LOCALLY ADOPTED CODES, AND CURRENT, PUBLISHED TIA STANDARDS.
C	SLOPE UNDERGROUND CONDUIT PATHWAYS, 100mm PER 30 LINEAR m, AWAY FROM BUILDING. LOW POINTS BETWEEN ENDS OF DUCTBANK TRENCHES, ARE NOT ACCEPTABLE.
D	DISTANCES SHOWN, ARE APPROXIMATE, AND SHOWN FOR COORDINATION PURPOSES ONLY.
E	SEAL AND CAP UNDERGROUND CONDUITS TO PREVENT MOISTURE PENETRATION.
F	DO NOT EXCEED TWO 90 DEGREE BENDS OR 180 DEGREES OF BEND RADIUS BETWEEN PULL POINTS, UON.
G	COMMUNICATIONS CONDUITS WILL BE 1m BELOW GRADE OR DEEPER.
H	PROVIDE GPS COORDINATES FOR TELECOMMUNICATIONS VAULT INSTALLATION LOCATIONS AS PART OF AS-BUILT DOCUMENTATION.
I	PROVIDE AND INSTALL VAULT EXTENSION RINGS AS REQUIRED PER SPECIFICATIONS.
J	REFER TO T-G SERIES DRAWINGS FOR OSP DETAILS.
K	ENCASE ALL UNDERGROUND CONDUIT DUCTBANKS WITH 3,500 PSI CONCRETE WITH RED DYE BROADCASTED OVER SURFACE OF WET CONCRETE. UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION 27 05 43 FOR DETAILS.
L	PRODUCTION CONDUIT TO BE INSTALLED DURING INITIAL CONSTRUCTION PHASE. NON-PRODUCTION CONDUIT TO BE INSTALLED IN CORRESPONDENCE WITH ASSOCIATED BELOW GRADE COLO CONSTRUCTION.

GENERAL NOTES - OSP PLAN

Key Name	Comments
M	WORK AREA NEAR EXISTING UNDERGROUND UTILITIES/SERVICES. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES/SERVICES LOCATION PRIOR TO THE START OF INSTALLATION. CONTRACTOR TO PROTECT IN PLACE, EXISTING UNDERGROUND UTILITIES/SERVICES AS REQUIRED.
N	REFER TO T-C-5xx SERIES DRAWINGS FOR VAULT BUTTERFLY DETAILS FOR ADDITIONAL INFORMATION.
O	AVOID ROADS KEEP HANDHOLES AND VAULTS OFF THE ROAD, AWAY FROM UTILITIES, AND ADJUST TO CIVIL FEATURES WHERE REQUIRED WHILE KEEPING PATHWAYS AS DIRECT AS POSSIBLE. MAINTAIN HANDHOLES AND VAULTS IN HIGH AREAS, BUT LOWER THAN BUILDING.
P	UNDERGROUND CONDUIT SYSTEM WILL HAVE NO 90-DEGREE SWEEPS SEPERATED BY MORE THAN 6 METERS
Q	REFER TO SPECIFICATION SECTION 27 05 43 FOR TRACER WIRE AND OTHER REQUIREMENTS ASSOCIATED WITH SCOPE ON THIS SHEET.
R	REFER TO DETAIL 2 ON SHEET MIL02 - T-C-200 FOR DUCTBANK CONDUIT UTILIZATION.
S	DUE TO HIGH-WATER TABLE FOUND ON THIS SITE, THE TELECOMMUNICATIONS VAULT INSTALLING CONTRACTOR IS TO PROVIDE VAULT UP-LIFT PREVENTION ANCHORAGE TO EACH VAULT. THIS ANCHORAGE TO BE COORDINATED AROUND OTHER BELOW GRADE UTILITIES.



1 MIL02 - SITE PLAN - PRODUCTION NETWORK - EXTERNAL
1 : 350

ALL VERTICAL DIMENSIONS ARE RELATIVE TO ASSOCIATED BUILDING SLAB LEVEL.

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Company Project No.	P.17224
M.S. Project No.	

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Revisions

No.	Date	Description
H	28/05/2021	Final IFC + DCN10
F	19/03/2021	FINAL IFC
E	05/03/2021	IFC
D	26/02/2021	IFC
C	12/02/2021	90% DESIGN REVIEW
B	15/01/2021	60% DESIGN REVIEW
A	17/11/2020	30% DESIGN REVIEW

Registration

Key Plan

TRUE NORTH

COLO1

3 1 4 2 ADMIN

Bar Code

Sheet Title/Number

SITE MASTER PLAN - PRODUCTION AND FACILITY NETWORKS

MIL02-T-C-100

MIL02-T-C-100