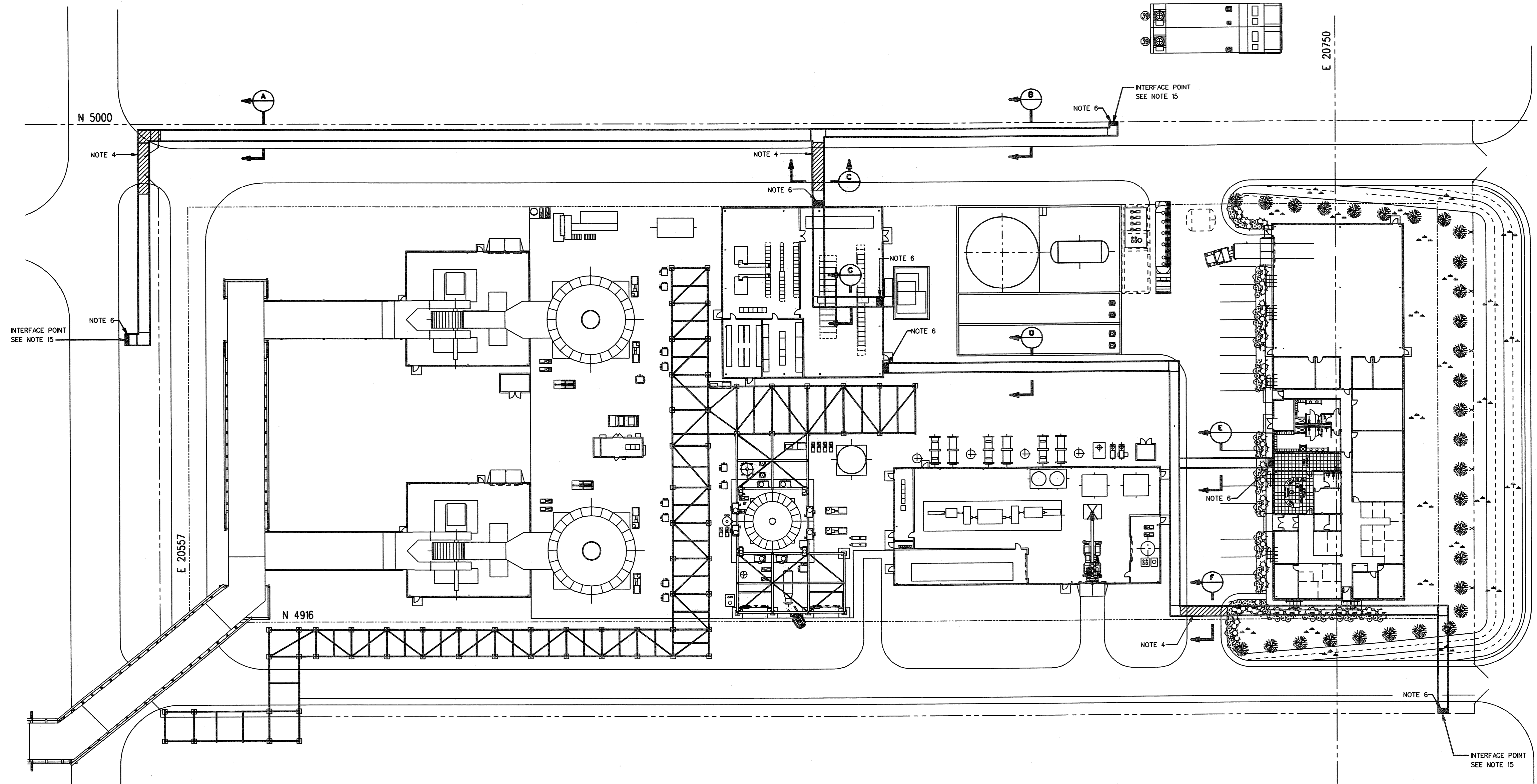
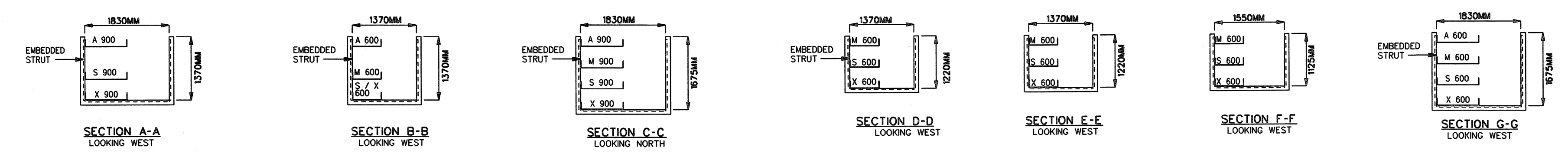


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**NOTES:**

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. CABLE TRENCHES SHALL BE PREFABRICATED WITH 100MM THICK WALLS, BOTTOMS AND WILL BE REINFORCED WITH STEEL FABRIC.
3. TRENCH LIDS SHALL BE 100MM THICK STEEL FABRIC REINFORCED CONCRETE.
4. TRENCH CROSSING PLANT ROADS SHALL BE HS-20 RATED.
5. PER IEC STANDARDS, CABLES INSTALLED IN TRENCHES IN ZONE 2, GROUP IIA AREAS WILL BE QUALIFIED TO IEC 60332-1-12 TO MINIMIZE FLAME PROPAGATION.
6. CONCRETE BARRIERS WITH SEALED CONDUIT SLEEVES WILL BE PROVIDED TO MINIMIZE THE PASSAGE OF GAS, LIQUID, OR FLAME.
7. CABLE LADDERS SHALL BE STAINLESS STEEL OR APPROVED EQUAL.
8. LADDERS SHALL BE MADE ELECTRICALLY CONTINUOUS BY INSTALLATION OF BONDING JUMPERS.
9. CABLE LADDERS ARE DESIGNED TO MAINTAIN THE FOLLOWING CABLE SEPARATION:
  - A - MEDIUM VOLTAGE POWER CABLES
  - M - LOW VOLTAGE POWER CABLES
  - S - NON-IS INSTRUMENT AND CONTROL
  - X - IS INSTRUMENT AND CONTROL
10. CABLE LADDERS ARE DESIGNED TO MAINTAIN 300MM FREE SPACE BETWEEN THE TOP OF ONE LADDER AND THE BOTTOM OF ANOTHER.
11. RACEWAY DESIGNATIONS FOR CABLE LADDER WIDTHS IS AS SHOWN BELOW:
  - 300 - 300MM WIDE
  - 450 - 450MM WIDE
  - 600 - 600MM WIDE
  - 900 - 900MM WIDE
12. CABLE LADDERS ARE IDENTIFIED BY VOLTAGE LEVEL AND SIZE.
13. CABLE LADDERS FOR INSTRUMENT AND CONTROL, BOTH IS AND NON-IS, SHALL BE INSTALLED WITH BARRIERS TO MAINTAIN SEPARATION.
14. TRENCH SHALL BE PROVIDED WITH EMBEDDED UNISTRUT IN THE WALLS AND FLOOR FOR RACEWAY SUPPORT.
15. FOR LOCATION OF INTERFACES, SEE INTERFACE REGISTRY (DOCUMENT \*10112936-FI-Z-LST-0004).
16. FOR EQUIPMENT IDENTIFICATION SEE GENERAL ARRANGEMENT DRAWINGS 25474-000-P1-0310-00002 THRU 4 (FIGHTNER DRAWINGS \*10112936-PB-G-DRW-0002 THRU 4).



PRELIMINARY

	ISSUED FOR COMMENT	CE	SWS	JFK
Owner: <b>GASSNOVA</b> Project: <b>CO2 KARSTO PROJECT</b> Drawing No: <b>10112936-PB-E-TD0-0010</b> Contractor: <b>BECHTEL POWER CORPORATION</b>	<b>ELECTRICAL ROUTING PLAN</b> <b>CABLE TRENCH</b>	Scale: <b>AS SHOWN</b> Drawing No: <b>25474</b> Rev: <b>0</b>	Job No: <b>ER-0300-00001</b>	Rev: <b>0</b>