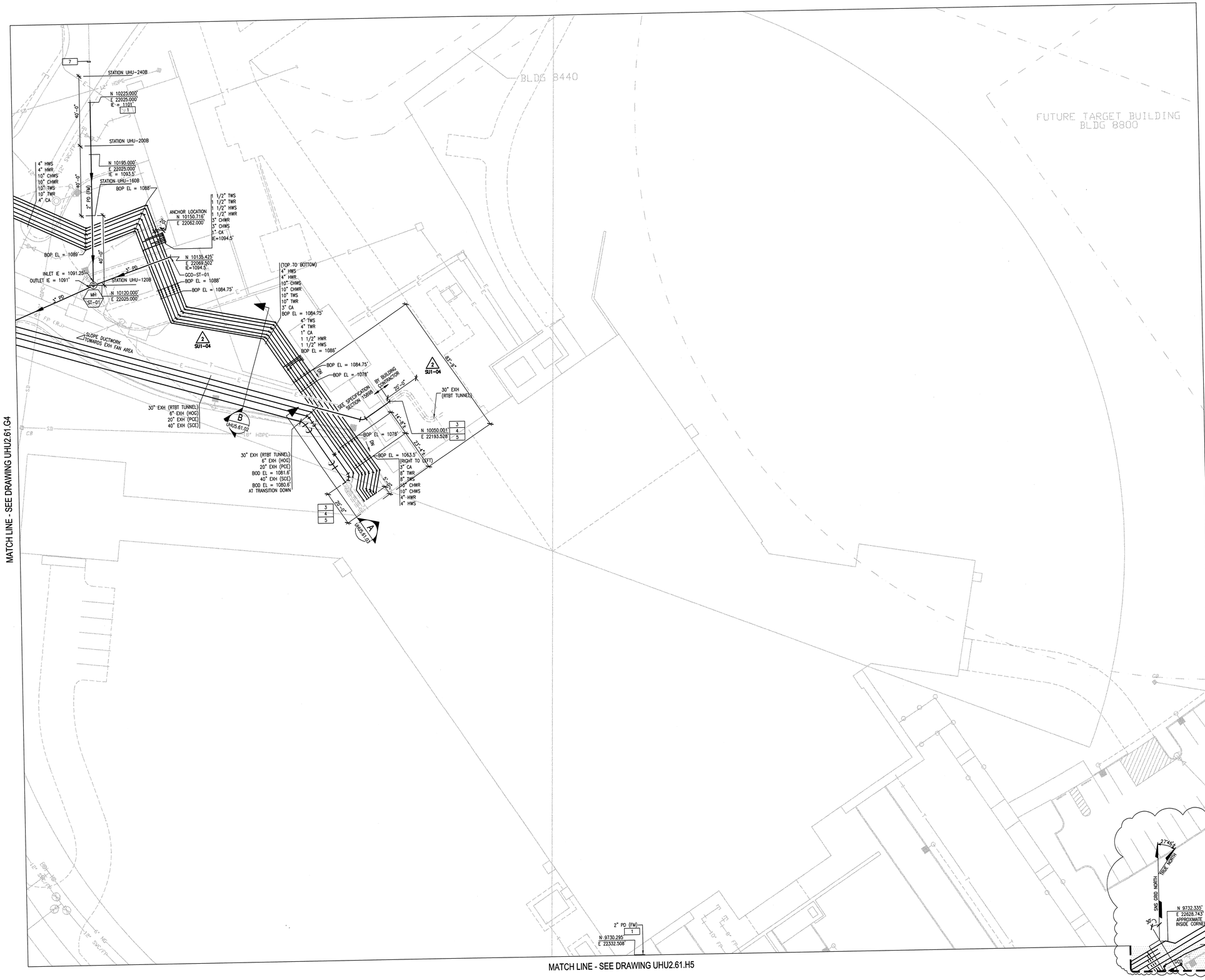



## GENERAL NOTES:

A. SITE CONTOURS AND STORM DRAINAGE CONFIGURATION ARE LOCATED IN THE INITIAL SITE PREPARATION PACKAGE. SNS CONTRACT NUMBER: 00F-1823-01, REFERENCE LATEST REVISION.

B. SANITARY WASTE DRAIN, STORM DRAIN, POTABLE WATER AND FIRE WATER PIPING IS SHOWN HERE FOR REFERENCE ONLY. SEE CIVIL DRAWINGS UHT3.34.H4 AND USS3.34.H4 FOR ROUTING OF THESE SERVICES.

C. ELECTRICAL DUCT BANKS AND MAN HOLES ARE SHOWN HERE FOR REFERENCE ONLY. SEE ELECTRICAL DRAWING UEL2.61.H4 FOR ROUTING OF THESE SERVICES.

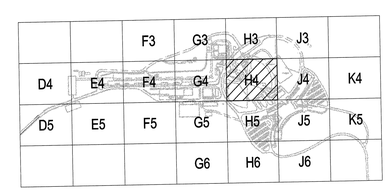
D. SEE SHEET UHU8.61.01 FOR PIPING PROFILES.

E. SEE DETAIL 2, SHEET UHU6.61.01 FOR TRENCHING AND COMPACTING REQUIREMENTS.

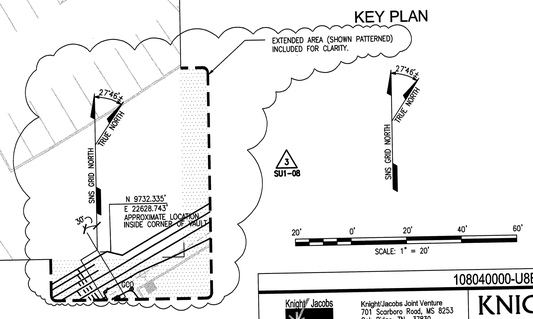
F. THE PIPING CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER THE INSTALLATION OF ALL PIPING AT LOCATIONS OF INTERFACE WITH THE RESPECTIVE BUILDING PACKAGE.

## KEYNOTES:

1. CAP END OF PIPE FOR HYDROSTATIC TESTING AND FUTURE CONNECTION.
2. SEE SHEET UHU6.61.05 FOR PIPING ANCHORAGE DETAILS.
3. FURNISH AND INSTALL CAP AT END OF DUCT FOR LEAK TESTING AND FUTURE CONNECTION.
4. SITE UTILITIES TERMINATION POINT FORE EXHAUST DUCTWORK (PCE, HOG, SCE AND RTBT TUNNEL TO BE 20'-0" FROM EXTERIOR WALL OF BUILDING.
5. EXHAUST DUCT TO WITHIN 20' OF BUILDINGS BY OTHERS.
6. N AND E COORDINATES TO CENTER OF PRECAST PD MANHOLE.
7. CONTINUATION OF PD PIPING TO RING SERVICE BUILDING BY OTHERS.
8. NOT USED.
9. N AND E COORDINATES TO CENTER LINE OF HWS PIPE.




## KEY PLAN




108040000-U8E-8000-A041

Knight/Jacobs Joint Venture
701 Scarboro Road, MS 8253
Oak Ridge, TN 37830
865-241-9433
fax 865-241-3400

**KNIGHT**
Knight Advanced Technology
4710 E. Elwood, Bldg. 1, Fl
Phoenix, AZ 85040

UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725
UT-BATTELLE, LLC. ● Oak Ridge, Tennessee

PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCE
SITE UTILITIES
MECHANICAL PLAN
BLOCK H4

| 1 | 48 | 49 | 50 | PLANT | BLDG | FL | SH. | OF | TYPE | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | U | X | X | 8 | 8000 | | 1 | 1 | P | U |
| 51 | | 52 | | 53 | | | | | | REV |
| NC | | NA | | | 1.8.4 | | UHU2.61.H4 | | | 3 |

| | | |
|---|---|---|
| DSN | C. FILLER | 7/13/01 |
| DRW | C. FILLER | 7/13/01 |
| CHK | B. JOHNSON | 7/13/01 |
| DEPT | | |
| PF | JB SCHUBERT | 7/16/01 |
| PJ | T.McLAUGHLIN | 7/16/01 |
| REQ | | |
| UTB | J.LAWSON | 7/16/01 |

DRAWING APPROVALS

REF. 3 REV. 12/9/02 DATE

BRUCE W. JOHNSON REGISTERED ENGINEER AGRICULTURE NO. 0019 STATE OF TENNESSEE

| ST | CV | EC | EE | EM | IE | M | PD | SE | AR |
|---|---|---|---|---|---|---|---|---|---|
| -- | BN | -- | VS | -- | -- | -- | JW | -- | -- |
| RW | BN | -- | AK | -- | BJ | -- | JH | -- | WS |
| RW | AW | BS | AK | BS | BJ | -- | BS | -- | WS |
| RW | AW | BS | AK | BS | BJ | -- | BS | -- | WS |

SQUAD CHECK

| REV | CHANGE TYPE | CHANGE CONTROL SYSTEM | CHANGE CONTROL NUMBER | DESCRIPTION | DSN | CHK | DEPT |
|---|---|---|---|---|---|---|---|
| 3 | A | 4 | 8 | CNMS REVISIONS – DCN T1-SU1-08 – 12/09/02 | CF | JW | |
| 2 | A | 4 | 4 | LAND IMPROVEMENTS REVISIONS – 2/8/2002 | CF | JW | |
| 1 | | | | BASIS OF AWARD – 10/30/2001 | PCG | JW | |
| 0 | | | | CERTIFIED FOR CONSTRUCTION – 7/13/01 | CF | BS | |

REVISION OR ISSUE PURPOSE

| DATE | PE | DATE | PJ | DATE | REQ | DATE | UTB | DATE | RPE | RPE NO | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | BWJ | 105869 | 12/9/02 |
| | | | | | | | | | BWJ | 105869 | 2/8/02 |
| | CG | 2/02 | TM | 2/14/02 | | | | | | | |
| | CG | 11/15/01 | TM | 11/15/01 | | | JL | 11/15/01 | BWJ | 105869 | 10/30/01 |
| | JS | 7/16/01 | TM | 7/16/01 | | | JL | 7/16/01 | BWJ | 105869 | 7/13/01 |

REVISION APPROVALS

NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM
ENGINEERING PROCEDURE

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

AutoCAD