

LEGEND

WATERMAIN/FIRE	150 WM/FIRE
NEW WATERMAIN/FIRE	NEW 150 WM/FIRE
SANITARY SEWER	250 SAN SEWER
NEW SAN SEWER	NEW 250 SAN SEWER
STORM SEWER	200 STM SEWER
GAS	GAS
HYDRO (UNDERGROUND)	HYDRO DUCTS
MTS (UNDERGROUND)	MTS DUCTS
DITCH CENTRE LINE	
DITCH CULVERT	
SURVEY BOUNDARY	LIMIT OF SURVEY BOUNDARY
WATERMAIN VALVE	
FIRE HYDRANT	
WATER CURB STOP	
MANHOLE	
CATCH BASIN	
RETAINING WALL POST	
TREE	

0	ISSUED FOR TENDER	15/08/26
Revision	Description	Date
Client		client

STONY MOUNTAIN INSTITUTION

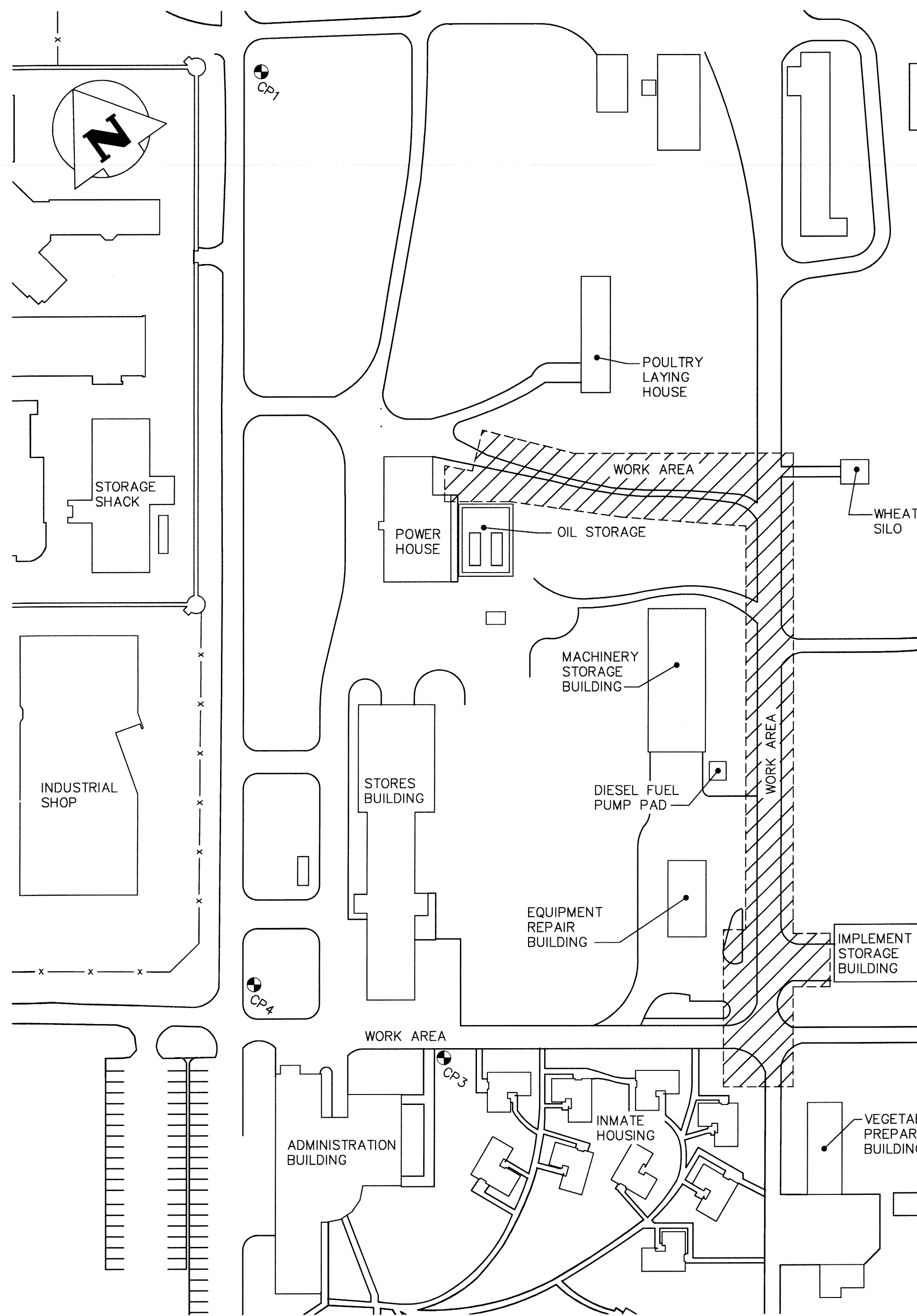
Project **STONY MOUNTAIN, MB**

WATER AND SEWER REPLACEMENTS SITE UTILITIES

Designed by MID	Conçu par
Drawn by DMW	Dessiné par
Approved by P.W.	Approuvé par
PWSC Project Manager T. L.	Administrateur de Projets TPSC
Drawing title	Titre du dessin

SANITARY SEWER AND WATERMAIN WORKS

Project no./No. du projet R.073774.001	Drawing no./No. du dessin C1	Revision no. 0
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SITE LOCATION PLAN

SCALE: NTS

GENERAL NOTES

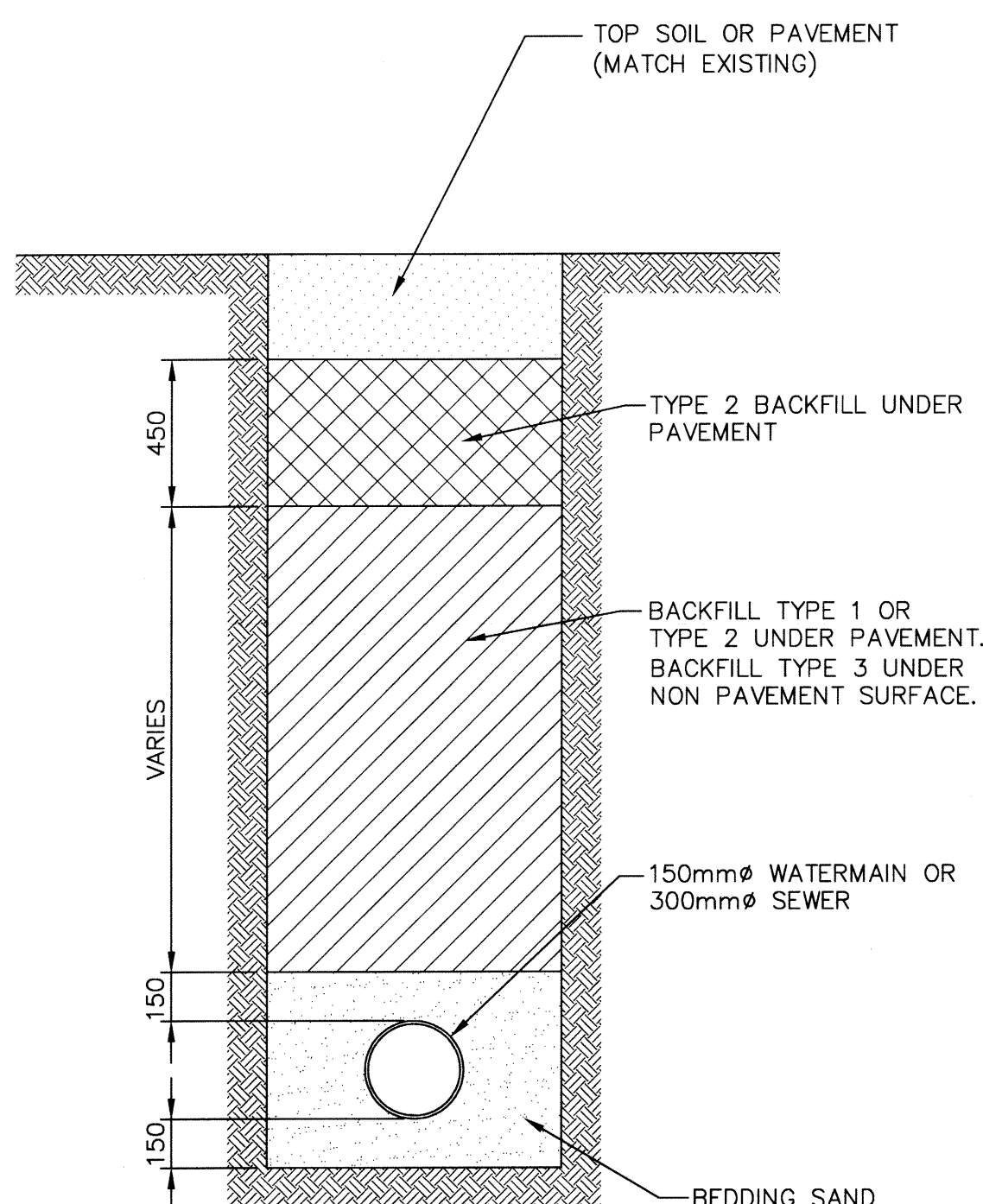
- UNDERGROUND ELEVATIONS FOR ALL MUNICIPAL AND UTILITY INFRASTRUCTURE ARE UNKNOWN EXCEPT FOR SEWERS.
- SOFT DIG AT ALL UTILITY CROSSINGS LOCATED AT NEW WATER AND SEWER INSTALLATIONS TO CONFIRM UNDERGROUND DEPTHS OF ALL AFFECTED UTILITIES

INSTALLATION PROCEDURES - WATERMAINS

- INSTALL NEW VALVES WV-5 AND WV-6 AND REINSTATE WATER. SHUT DOWN DURATION NO MORE THAN 8 HOURS.
- THEN INSTALL NEW VALVES WV-1 AND WV-2 AND REINSTATE WATER. SHUT DOWN NO MORE THAN 8 HOURS.
- USE STEEL I-BEAM FOR THRUST BLOCK BEHIND TEES.
- RE-ESTABLISH TEMPORARY TRAVEL SURFACE AT INTERSECTION OF WV-5 AND WV-6 FOR SECURITY PURPOSES
- INSTALL NEW WATERMAINS ON LINE BETWEEN WV-1, WV-2, WV-5 AND WV-6. REMOVE EXISTING PIPE AS NEW PIPE IS INSTALLED.
- CONTACT S.M.I. DEPARTMENT REPRESENTATIVE TO DETERMINE DIRECTION OF VALVE ROTATION FOR OPENING AND CLOSING OPERATIONS
- INSTALL WATERMAIN ON-LINE AT SAME ELEVATIONS AS EXISTING WATERMAIN.
- WHERE EXISTING WATERMAIN HAS LESS THAN 2.4m COVER, LOWER NEW WATERMAIN TO 2.4m COVER UNLESS IMPEDED BY BEDROCK.
- WATERMAIN ELEVATIONS ARE SHOWN AS:
GND=224.935
INV=222.535
EXISTING GROUND
DESIGN INVERT

INSTALLATION PROCEDURES - SANITARY SEWER

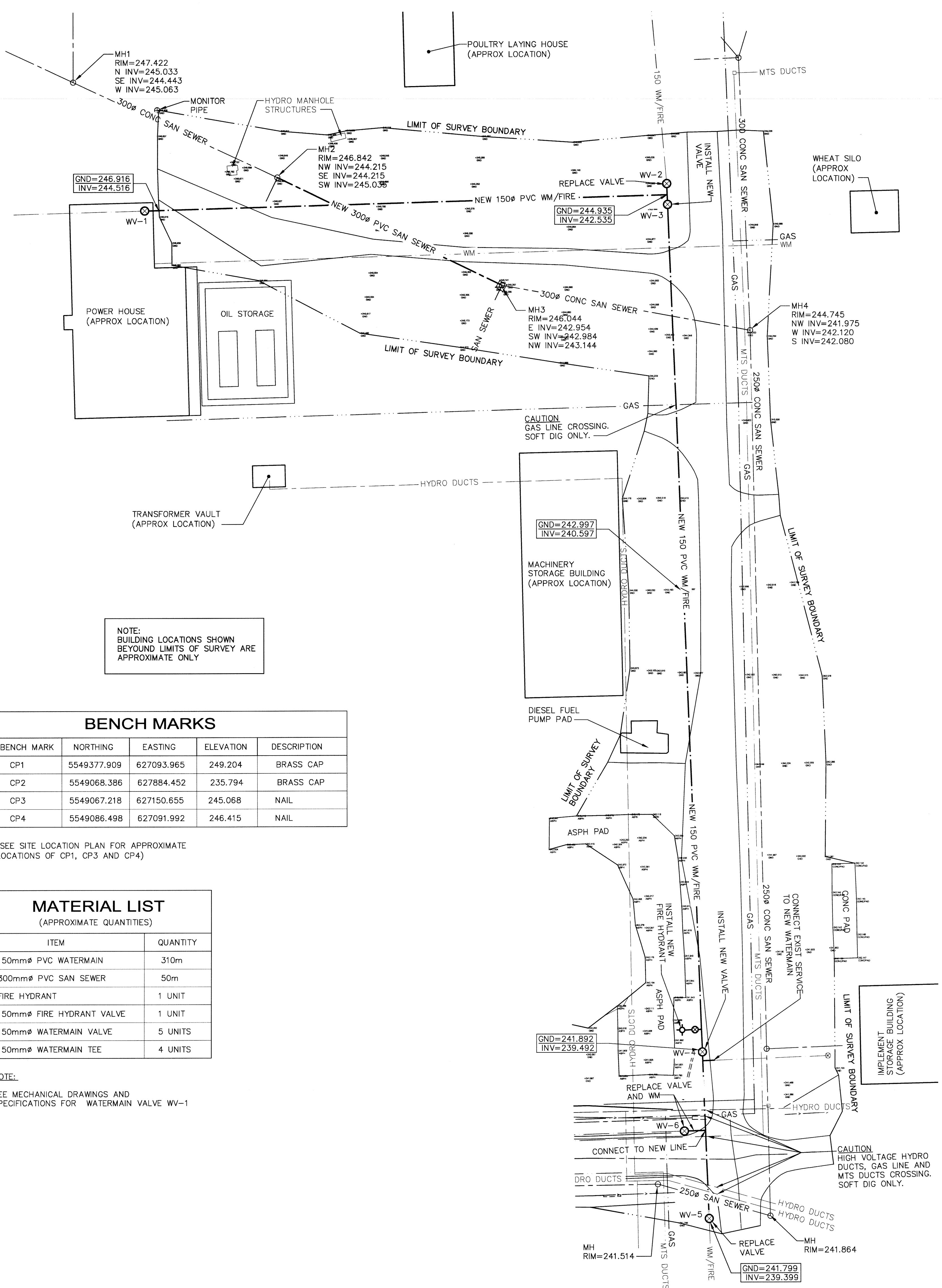
- INSTALL TEMPORARY BLOCKAGE AND BY-PASS PUMPING IN MANHOLES MH2 AND MH3. PRIOR TO NEW SANITARY SEWER INSTALLATION.
- REMOVE EXISTING SANITARY SEWER BETWEEN MH2 AND MH3 AND INSTALL NEW 300mmØ PVC SANITARY SEWER.



TRENCH DETAIL

SCALE: 1:20

SEE SPECIFICATION 33 11 16 SECT. 2.5 FOR WATER
SEE SPECIFICATION 33-31-13 SECT. 2.11 FOR SEWER



BENCH MARKS

BENCH MARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	5549377.909	627093.965	249.204	BRASS CAP
CP2	5549068.386	627884.452	235.794	BRASS CAP
CP3	5549067.218	627150.655	245.068	NAIL
CP4	5549086.498	627091.992	246.415	NAIL

(SEE SITE LOCATION PLAN FOR APPROXIMATE LOCATIONS OF CP1, CP3 AND CP4)

MATERIAL LIST

(APPROXIMATE QUANTITIES)

ITEM	QUANTITY
150mmØ PVC WATERMAIN	310m
300mmØ PVC SAN SEWER	50m
FIRE HYDRANT	1 UNIT
150mmØ FIRE HYDRANT VALVE	1 UNIT
150mmØ WATERMAIN VALVE	5 UNITS
150mmØ WATERMAIN TEE	4 UNITS

NOTE:

SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR WATERMAIN VALVE WV-1

PLAN

SCALE: 1:400



Certificate of Authorization
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