

CSC DRUMHELLER INSTITUTION

DRUMHELLER CONDUIT REPLACEMENT/EXPANSION R.078549.001

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ISSUED FOR TENDER

Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2018/04/17

Client: client

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT REPLACEMENT/EXPANSION

Designed by: **KAS** / Conçu par
Drawn by: **RTD** / Dessiné par

Approved by: **KAS** / Approuvé par
PWOSC Project Manager / Administrateur de Projets TPSCC

Drawing title: **ELECTRICAL DRAWING LIST**

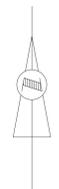
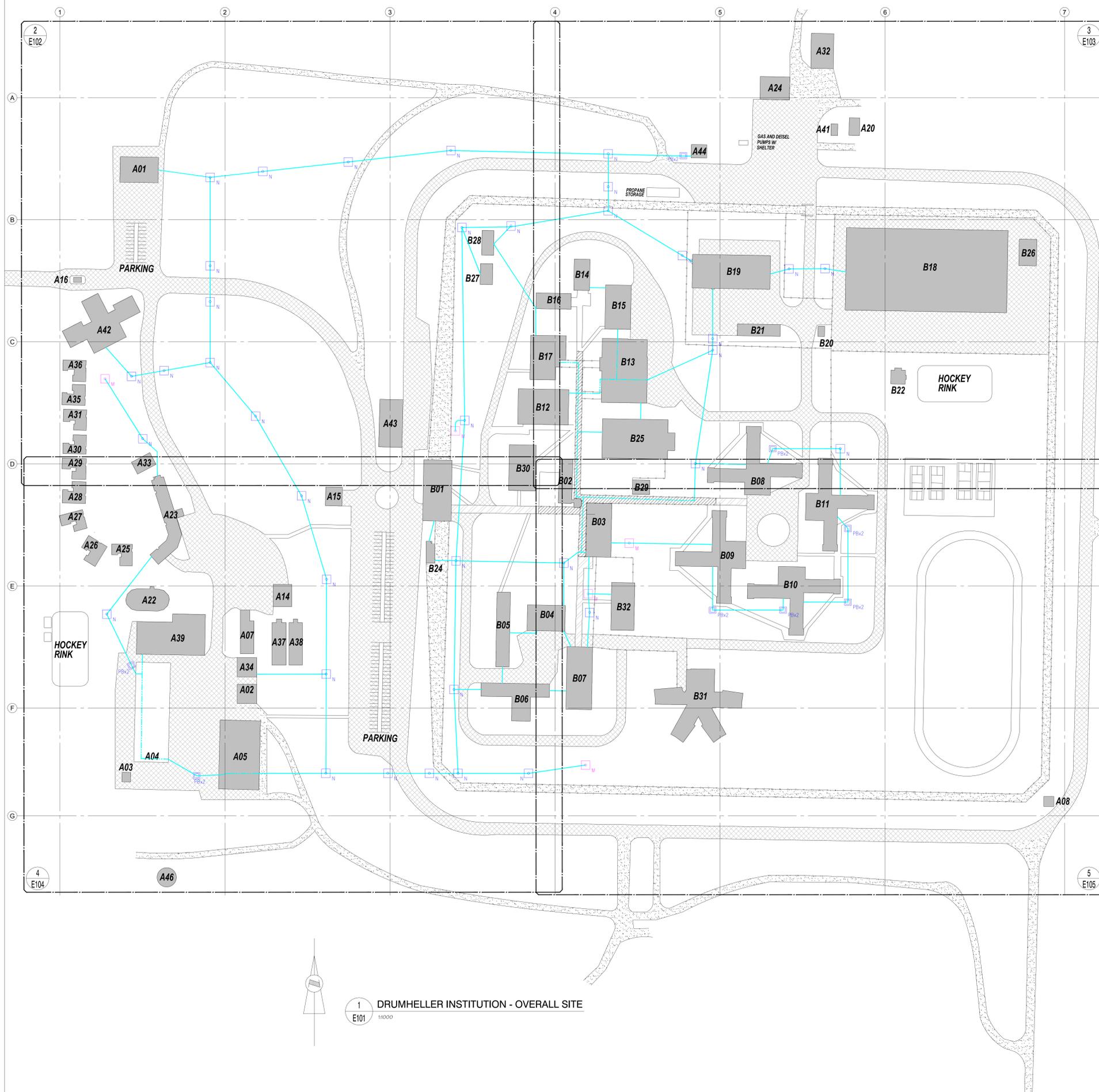
Project no./No. du projet: **R.078549.001**
Drawing no./No. du dessin: **INDEX**
Revision no.: **0**

A BUILDINGS – MINIMUM SECURITY AREA			
BUILDING USAGE	NUMBER	BUILDING USAGE	NUMBER
ADMINISTRATION	A-01	GARAGE	A-24
FIRE HALL	A-02	ANNEX HOUSE A-1	A-25
STORAGE	A-03	ANNEX HOUSE B-1	A-26
STORES	A-04	ANNEX HOUSE C-3	A-27
CENTRAL HEATING PLANT	A-05	ANNEX HOUSE D-4	A-28
STORAGE	A-06	ANNEX HOUSE E-5	A-29
OLD GREENHOUSE	A-07	ANNEX HOUSE F-6	A-30
GUARD TOWER T3	A-08	ANNEX HOUSE G-7	A-31
GUARD TOWER T1	A-09	COMPOSTER BUILDING	A-32
GUARD TOWER #2 (REMOVED)	A-10	PIV – ANNEX	A-33
GUARD TOWER #3 (REMOVED)	A-11	HOBBY SHOP	A-34
GUARD TOWER #4 (REMOVED)	A-12	ANNEX HOUSE H-8	A-35
RIFLE RANGE	A-13	ANNEX HOUSE I-9	A-36
GREENHOUSE STORAGE	A-14	GREENHOUSE	A-37
ARMOURY	A-15	GREENHOUSE	A-38
CHECKPOINT CHARLIE	A-16	MULTI-PURPOSE BUILDING	A-39
GAS HUT	A-17	SILVER STORAGE BUILDING	A-40
STAFF TRAINING CENTRE (DEMOLISHED)	A-18	STORAGE (NO SERVICE)	A-41
PWC TRAILER (DEMOLISHED)	A-19	50 BED LIVING UNIT	A-42
HAZARDOUS STORAGE (NO SERVICE)	A-20	GO BUILDING	A-43
SMOKE HOUSE	A-21	GENERATOR BUILDING	A-44
SPRUNG STRUCTURE	A-22	STORAGE BUILDING	A-45
ANNEX ADMINISTRATION	A-23	WATER TOWER	A-46

B BUILDINGS – MEDIUM SECURITY AREA			
BUILDING USAGE	NUMBER	BUILDING USAGE	NUMBER
	B-01	SCHOOL	B-17
	B-02	CORCAN	B-18
ADMINISTRATION	B-03	MAINTENANCE BUILDING	B-19
INTAKE ASSESSMENT UNIT	B-04	SALLY PORT	B-20
DISSOCIATION	B-05	MAINTENANCE STORAGE	B-21
A AND D	B-06	FIELDHOUSE SLAB ELEC-T-SUB	B-22
HEALTH CARE INTAKE UNIT	B-07	CURLING RINK (DEMOLISHED)	B-23
LIVING UNITS #8	B-08	MCCP	B-24
LIVING UNITS #9	B-09	GYMNASIUM	B-25
LIVING UNITS #10	B-10	INDUSTRIES STORAGE	B-26
LIVING UNITS #11	B-11	FAMILY VISITING #1 (S)	B-27
NATIVE CULTURAL CENTRE	B-12	FAMILY VISITING #2 (N)	B-28
KITCHEN	B-13	INMATE CANTEN (DEMOLISHED)	B-29
CATHOLIC CHAPEL	B-14	PROGRAM/ADMIN BUILDING	B-30
S.I.S.	B-15	LIVING UNIT	B-31
PROTESTANT CHAPEL	B-16	GI BUILDING	B-32

PULL BOX LEGEND									
TAG	DIMENSIONS (mm) (LxWxH)	CONDUIT CONTENT	NORTH QTY – SIZE – MAT'L	EAST QTY – SIZE – MAT'L	SOUTH QTY – SIZE – MAT'L	WEST QTY – SIZE – MAT'L	COMMENTS		
PB-P1	1520x1520x1380	POWER	4 – 101.6# – PVC	4 – 101.6# – PVC			SEE DETAIL 4 ON SHEET E107		
PB-D1	1520x1520x1380	DATA	4 – 101.6# – PVC	4 – 101.6# – PVC			SEE DETAIL 4 ON SHEET E107		
PB-P2	1520x1520x1380	POWER	4 – 101.6# – PVC			4 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		
PB-D2	1520x1520x1380	DATA	4 – 101.6# – PVC			4 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		
PB-P3	1520x1520x1380	POWER	4 – 101.6# – PVC			4 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		
PB-D3	1520x1520x1380	DATA	4 – 101.6# – PVC			4 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		
PB-P4	1520x1520x1380	POWER	4 – 101.6# – PVC		4 – 101.6# – PVC		SEE DETAIL 4 ON SHEET E107		
PB-D4	1520x1520x1380	DATA	4 – 101.6# – PVC		4 – 101.6# – PVC		SEE DETAIL 4 ON SHEET E107		
PB-P6	1520x1520x1380	POWER	4 – 101.6# – PVC	4 – 101.6# – PVC	4 – 101.6# – PVC		SEE DETAIL 4 ON SHEET E107		
PB-D6	1520x1520x1380	DATA	4 – 101.6# – PVC	4 – 101.6# – PVC	4 – 101.6# – PVC		SEE DETAIL 4 ON SHEET E107		
PB-P7	1520x1520x1380	POWER	4 – 101.6# – PVC	4 – 101.6# – PVC			SEE DETAIL 4 ON SHEET E107		
PB-D7	1520x1520x1380	DATA	2 – 101.6# – PVC	2 – 101.6# – PVC			SEE DETAIL 4 ON SHEET E107		
PB-P8	1520x1520x1380	POWER	4 – 101.6# – PVC			4 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		
PB-D8	1520x1520x1380	DATA	2 – 101.6# – PVC			2 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		
PB-P9	1520x1520x1380	POWER				8 – 101.6# – PVC	SEE DETAIL 4 ON SHEET E107		

JUNCTION BOX LEGEND									
TAG	DIMENSIONS (mm) (LxWxH)	CONDUIT CONTENT	NORTH QTY – SIZE – MAT'L	EAST QTY – SIZE – MAT'L	SOUTH QTY – SIZE – MAT'L	WEST QTY – SIZE – MAT'L	COMMENTS		
JB-A01-P1	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-A01-D1	406.4x203.2x406.4	DATA	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-A04-P1	762.0x762.0x304.8	POWER	2 – 101.6# – PVC	4 – 101.6# – PVC	4 – 101.6# – PVC	4 – 101.6# – PVC	FLOOR MOUNTED – SEE DETAIL 10 ON SHEET E106. SEE NOTE 1		
JB-A04-D1	762.0x762.0x304.8	DATA	2 – 101.6# – PVC	4 – 101.6# – PVC	4 – 101.6# – PVC	4 – 101.6# – PVC	FLOOR MOUNTED – SEE DETAIL 9 ON SHEET E106. SEE NOTE 1		
JB-A04-P2	762.0x762.0x304.8	POWER	4 – 101.6# – PVC	4 – 101.6# – PVC			FLOOR MOUNTED – SEE DETAIL 10 ON SHEET E106. SEE NOTE 1		
JB-A04-D2	762.0x762.0x304.8	DATA	2 – 101.6# – PVC	2 – 101.6# – PVC			FLOOR MOUNTED – SEE DETAIL 9 ON SHEET E106. SEE NOTE 1		
JB-A05-P1	762.0x762.0x304.8	POWER		4 – 101.6# – PVC	4 – 101.6# – PVC		FLOOR MOUNTED – SEE DETAIL 10 ON SHEET E106. SEE NOTE 1		
JB-A05-D1	762.0x762.0x304.8	DATA		2 – 101.6# – PVC	2 – 101.6# – PVC		FLOOR MOUNTED – SEE DETAIL 9 ON SHEET E106. SEE NOTE 1		
JB-A23-P1	406.4x406.4x406.4	POWER	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-A23-D1	406.4x406.4x406.4	DATA	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-A23-P2	406.4x406.4x406.4	POWER			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-A23-D2	406.4x406.4x406.4	DATA			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-A34-P1	406.4x406.4x406.4	POWER		4 – 101.6# – PVC		4 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-A34-D1	406.4x406.4x406.4	DATA		8 – 101.6# – PVC		2 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-A39-P1	406.4x406.4x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-A39-D1	406.4x406.4x406.4	DATA			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-A42-P1	406.4x406.4x406.4	POWER		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-A44-D1	406.4x406.4x406.4	DATA				8 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B01-P1	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B01-D1	406.4x203.2x406.4	DATA			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B03-P1	406.4x203.2x406.4	POWER				2 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B03-D1	406.4x203.2x406.4	DATA				2 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B03-P2	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B03-D2	406.4x203.2x406.4	DATA			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B03-D3	406.4x406.4x406.4	DATA	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B04-P1	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B04-D1	406.4x203.2x406.4	DATA	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B04-P2	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B04-D2	406.4x203.2x406.4	DATA			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B04-P3	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B04-D3	406.4x406.4x406.4	DATA					WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B05-P1	406.4x203.2x406.4	POWER		2 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B05-D1	406.4x406.4x406.4	DATA		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B05-P2	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B05-D2	406.4x406.4x406.4	DATA			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B06-P1	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B06-D1	406.4x406.4x406.4	DATA	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B06-P2	406.4x203.2x406.4	POWER		2 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B06-D2	406.4x406.4x406.4	DATA		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B06-P3	406.4x406.4x406.4	POWER		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B07-P1	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B07-D1	406.4x406.4x406.4	DATA	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B07-P2	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B07-D2	406.4x406.4x406.4	DATA	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B07-P3	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B07-D3	406.4x406.4x406.4	DATA			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B08-P1	406.4x406.4x406.4	POWER			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B08-D1	406.4x406.4x406.4	DATA			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B08-P2	406.4x406.4x406.4	POWER		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B08-D2	406.4x406.4x406.4	DATA		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B09-P1	406.4x406.4x406.4	POWER				4 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B09-D1	406.4x406.4x406.4	DATA				4 – 101.6# – PVC	WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B09-P2	406.4x406.4x406.4	POWER			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B09-D2	406.4x406.4x406.4	DATA			4 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B10-P1	406.4x406.4x406.4	POWER		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B10-D1	406.4x406.4x406.4	DATA		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B10-P2	406.4x406.4x406.4	POWER		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B10-D2	406.4x406.4x406.4	DATA		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B11-P1	406.4x406.4x406.4	POWER	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B11-D1	406.4x406.4x406.4	DATA	4 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B11-P2	406.4x406.4x406.4	POWER		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B11-D2	406.4x406.4x406.4	DATA		4 – 101.6# – PVC			WALL MOUNTED – SEE DETAIL 8 ON SHEET E106. SEE NOTE 1		
JB-B12-P1	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B12-D1	406.4x203.2x406.4	DATA	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-P1	406.4x203.2x406.4	POWER			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-D1	406.4x203.2x406.4	DATA			2 – 101.6# – PVC		WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-P2	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-D2	406.4x203.2x406.4	DATA	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-P3	406.4x203.2x406.4	POWER	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-D3	406.4x203.2x406.4	DATA	2 – 101.6# – PVC				WALL MOUNTED – SEE DETAIL 7 ON SHEET E106. SEE NOTE 1		
JB-B13-P4	406.4x406.4x203.2	POWER	2 – 101.6# – PVC		2 – 101.6# – PVC		FLOOR MOUNTED – SEE DETAIL 9 ON SHEET E106. SEE NOTE 1		
JB-B14-D4	406.4x406.4x203.2	DATA	2 – 101.6# – PVC		2 – 101.6# – PVC		FLOOR MOUNTED – SEE DETAIL 9 ON SHEET E106. SEE NOTE 1		
JB-B13-P5	406.4x406.4x203.2	POWER	2 – 10						



1 DRUMHELLER INSTITUTION - OVERALL SITE
E101 1:1000

ITEM	SYMBOL	REMARKS
MANHOLE - EXISTING & MODIFIED TO SUIT NEW CONDUIT ROUTING		
MANHOLE - NEW		
PULLBOX - NEW		PROVIDE 2 PULLBOXES AT LOCATION (FOR DATA & POWER CONDUITS)
DUCTBANK LINETYPE - NEW		
ABOVE GROUND LINETYPE - NEW		
POWER CONDUIT LINETYPE - NEW		
DATA CONDUIT LINETYPE - NEW		
BREEZE-WAY - HATCH		CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. RIMS ARE EXPOSED ABOVE GRADE.
ASPHALT ROAD SURFACE - HATCH		ALL EXISTING CONC. OR ASPHALT SURFACES TO BE INTERRUPTED BY TRENCHING MUST BE SAW CUT TO PROVIDE A CLEAN JOINT FOR THE RESURFACING AFTER BACKFILLING.
CONCRETE ROAD SURFACE - HATCH		
GRAVEL ROAD SURFACE - HATCH		
GRASSED AREA - NO HATCH		ALL WORK AREAS ARE GRASSED UNLESS OTHERWISE NOTED

GENERAL NOTES:

- REFER TO SHEET E106 & E107 FOR WALL / FLOOR MOUNTED JUNCTION BOX & CONDUIT DETAILS.
- REFER TO SHEET E108 FOR JUNCTION BOX, PULLBOX, & MANHOLE LEGENDS.
- FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2016/04/17

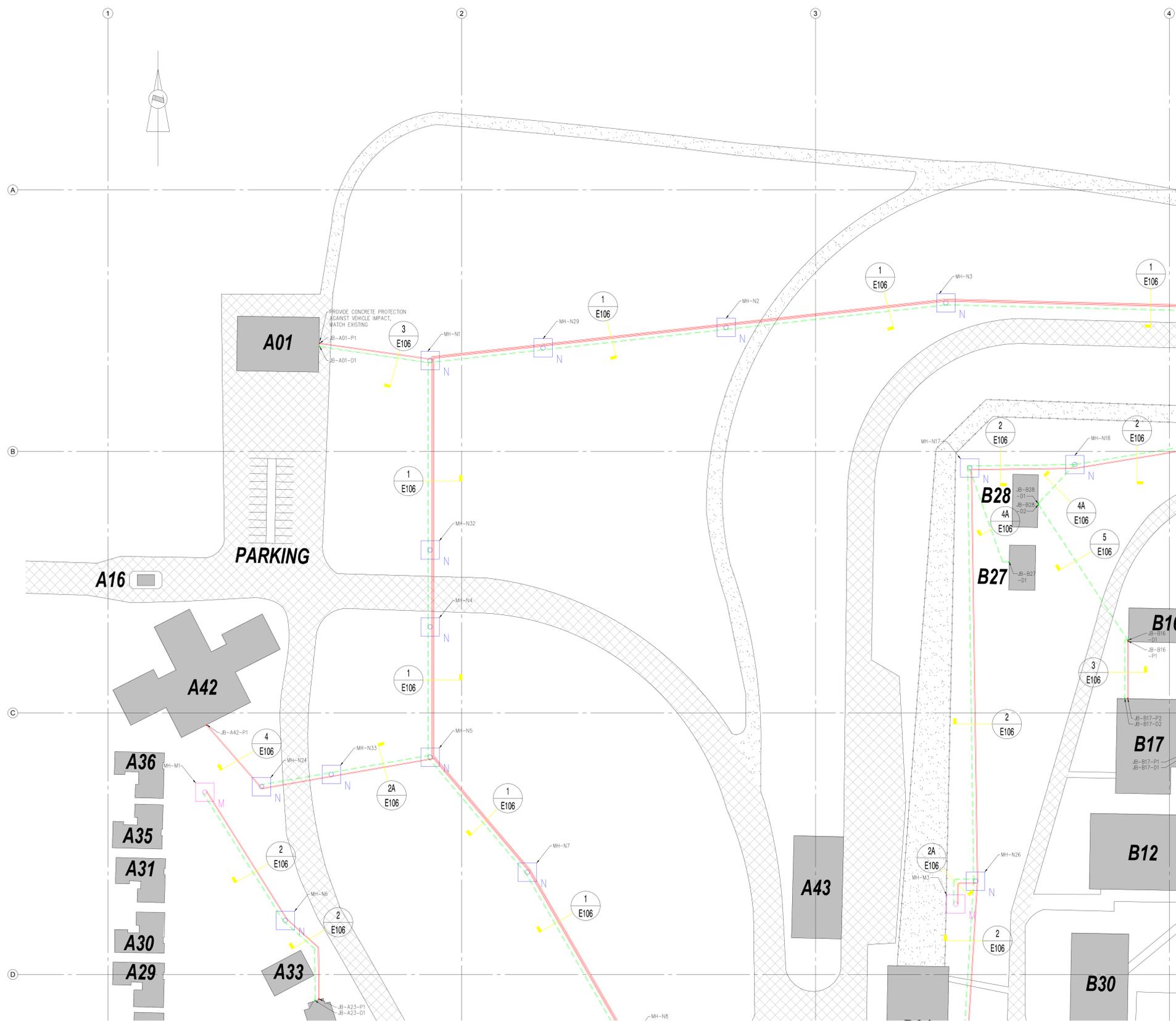
PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Project: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Designed by: **KAS**
Drawn by: **RTD/JJM**
Approved by: **KAS**
Project Manager: **KAS**
Title du dessin: **OVERALL SITE**

POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING

Project no./No. du projet: **R.078549.001**
Drawing no./No. du dessin: **E101**
Revision no.: **0**
OF 21



DRUMHELLER INSTITUTION
PARTIAL OF NORTHWEST QUARTER
1500
SHEET REF: E101

ITEM	SYMBOL	REMARKS
MANHOLE - EXISTING & MODIFIED TO SUIT NEW CONDUIT ROUTING		
MANHOLE - NEW		
PULLBOX - NEW		PROVIDE 2 PULLBOXES AT LOCATION (FOR DATA & POWER CONDUITS)
DUCTBANK LINETYPE - NEW		
ABOVE GROUND LINETYPE - NEW		
POWER CONDUIT LINETYPE - NEW		
DATA CONDUIT LINETYPE - NEW		
BREEZE-WAY - HATCH		CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. RUNS ARE EXPOSED ABOVE GRADE.
ASPHALT ROAD SURFACE - HATCH		ALL EXISTING CONC. OR ASPHALT SURFACES TO BE INTERRUPTED BY TRENCHING MUST BE SAW CUT TO PROVIDE A CLEAN JOINT FOR THE RESURFACING AFTER BACKFILLING.
CONCRETE ROAD SURFACE - HATCH		
GRAVEL ROAD SURFACE - HATCH		
GRASSED AREA - NO HATCH		ALL WORK AREAS ARE GRASSED UNLESS OTHERWISE NOTED.

GENERAL NOTES:
1. REFER TO SHEET E106 & E107 FOR WALL / FLOOR MOUNTED JUNCTION BOX & CONDUIT DETAILS.
2. REFER TO SHEET E108 FOR JUNCTION BOX, PULLBOX, & MANHOLE LEGENDS.
3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2016/04/17

PUBLIC WORKS & GOVERNMENT SERVICES

900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

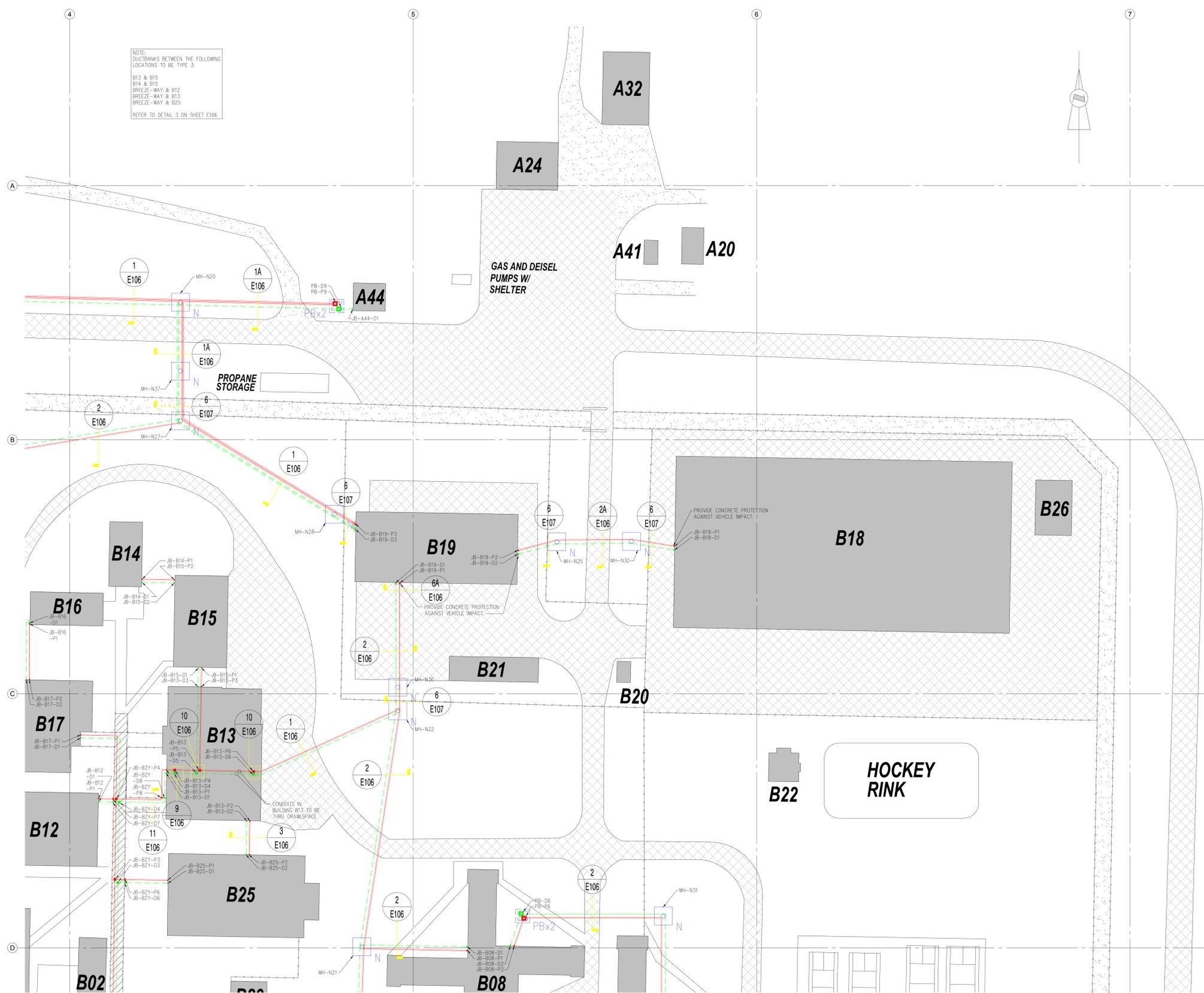
**DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT
REPLACEMENT/EXPANSION**

Designed by: **KAS**
Drawn by: **RTD/JJM**
Approved by: **KAS**

**PARTIAL SITE
POWER & COMMUNICATION
SYSTEM MANHOLES
& CONDUITS ROUTING**

Project no./No. du projet: **R.078549.001**
Drawing no./No. du dessin: **E102**
Revision no.: **0**

NOTE:
DUCTBANKS BETWEEN THE FOLLOWING LOCATIONS TO BE TYPE 3.
B13 & B15
B14 & B15
BREEZE-WAY & B12
BREEZE-WAY & B13
BREEZE-WAY & B25
REFER TO DETAIL 3 ON SHEET E106



Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2016/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Project: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Designed by: **KAS**
Drawn by: **RTD/JJM**
Approved by: **KAS**
Project Manager: **Administrateur de Projets (PMSC)**

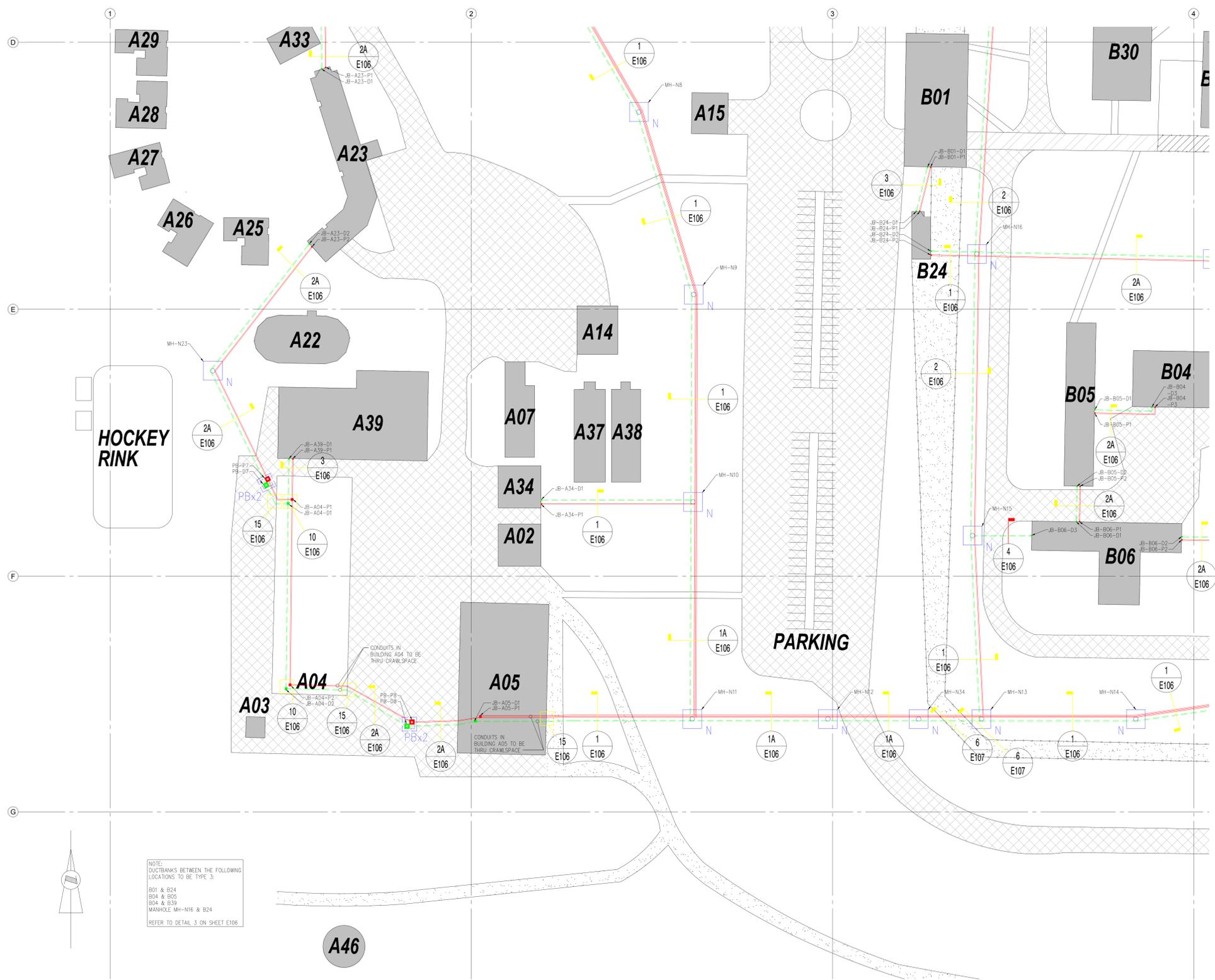
Drawing title: **PARTIAL SITE**
Project: **POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING**

Project no./No. du projet: **R.078549.001**
Drawing no./No. du dessin: **E103**
Revision no.: **0**
OF 21

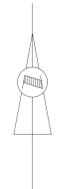
ITEM	SYMBOL	REMARKS
MANHOLE - EXISTING & MODIFIED TO SUIT NEW CONDUIT ROUTING		
MANHOLE - NEW		
PULLBOX - NEW		PROVIDE 2 PULLBOXES AT LOCATION (FOR DATA & POWER CONDUITS)
DUCTBANK LINETYPE - NEW		
ABOVE GROUND LINETYPE - NEW		
POWER CONDUIT LINETYPE - NEW		
DATA CONDUIT LINETYPE - NEW		
BREEZE-WAY - HATCH		CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. RIMS ARE EXPOSED ABOVE GRADE.
ASPHALT ROAD SURFACE - HATCH		ALL EXISTING CONC. OR ASPHALT SURFACES TO BE INTERRUPTED BY TRENCHING MUST BE SAW CUT TO PROVIDE A CLEAN JOINT FOR THE RESURFACING AFTER BACKFILLING.
CONCRETE ROAD SURFACE - HATCH		
GRAVEL ROAD SURFACE - HATCH		
GRASSED AREA - NO HATCH		ALL WORK AREAS ARE GRASSED UNLESS OTHERWISE NOTED.

GENERAL NOTES:
1. REFER TO SHEET E106 & E107 FOR WALL / FLOOR MOUNTED JUNCTION BOX & CONDUIT DETAILS.
2. REFER TO SHEET E108 FOR JUNCTION BOX, PULLBOX, & MANHOLE LEGENDS.
3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.

DRUMHELLER INSTITUTION
PARTIAL OF NORTHEAST QUARTER
1500
SHEET REF: E101



NOTE:
DUCTBANKS BETWEEN THE FOLLOWING LOCATIONS TO BE TYPE 3:
B01 & B24
B04 & B05
B04 & B39
MANHOLE MH-N16 & B24
REFER TO DETAIL 3 ON SHEET E106



DRUMHELLER INSTITUTION
PARTIAL OF SOUTHWEST QUARTER
4
E104
1500
SHEET REF: E101

ITEM	SYMBOL	REMARKS
MANHOLE - EXISTING & MODIFIED TO SUIT NEW CONDUIT ROUTING		
MANHOLE - NEW		
PULLBOX - NEW		PROVIDE 2 PULLBOXES AT LOCATION (FOR DATA & POWER CONDUITS)
DUCTBANK LINETYPE - NEW		
ABOVE GROUND LINETYPE - NEW		
POWER CONDUIT LINETYPE - NEW		
DATA CONDUIT LINETYPE - NEW		
BREEZE-WAY - HATCH		CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. RUNS ARE EXPOSED ABOVE GRADE.
ASPHALT ROAD SURFACE - HATCH		ALL EXISTING CONC. OR ASPHALT SURFACES TO BE INTERRUPTED BY TRENCHING MUST BE SAW CUT TO PROVIDE A CLEAN JOINT FOR THE RESURFACING AFTER BACKFILLING.
CONCRETE ROAD SURFACE - HATCH		
GRAVEL ROAD SURFACE - HATCH		
GRASSED AREA - NO HATCH		ALL WORK AREAS ARE GRASSED UNLESS OTHERWISE NOTED

GENERAL NOTES:
1. REFER TO SHEET E106 & E107 FOR WALL / FLOOR MOUNTED JUNCTION BOX & CONDUIT DETAILS.
2. REFER TO SHEET E108 FOR JUNCTION BOX, PULLBOX, & MANHOLE LEGENDS.
3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Project: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Designed by: **KAS**
Drawn by: **RTD/JJM**
Approved by: **KAS**
Project Manager: **RTD/JJM**

Drawing title: **PARTIAL SITE**
Project: **POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING**

Project no./No. du projet: **R.078549.001**
Drawing no./No. du dessin: **E104**
Revision no.: **0**
OF 21



NOTES:
1. DUCTBANKS BETWEEN THE FOLLOWING LOCATIONS TO BE TYPE 2:
MANHOLE MH-N19 & BREEZE-WAY
MANHOLE MH-N21 & B08
PULLBOX PB-P2/D2 & B10
PULLBOX PB-P4/D4 & B11
REFER TO DETAIL 2 ON SHEET E106
2. DUCTBANKS BETWEEN THE FOLLOWING LOCATIONS TO BE TYPE 3:
B04 & B07
MANHOLE MH-N19 & B04
REFER TO DETAIL 3 ON SHEET E106

5
E106
1500
SHEET REF: E101

ITEM	SYMBOL	REMARKS
MANHOLE - EXISTING & MODIFIED TO SUIT NEW CONDUIT ROUTING		
MANHOLE - NEW		
PULLBOX - NEW		PROVIDE 2 PULLBOXES AT LOCATION (FOR DATA & POWER CONDUITS)
DUCTBANK LINETYPE - NEW		
ABOVE GROUND LINETYPE - NEW		
POWER CONDUIT LINETYPE - NEW		
DATA CONDUIT LINETYPE - NEW		
BREEZE-WAY - HATCH		CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. ROUS ARE EXPOSED ABOVE GRADE.
ASPHALT ROAD SURFACE - HATCH		ALL EXISTING CONC. OR ASPHALT SURFACES TO BE INTERRUPTED BY TRENCHING MUST BE SAW CUT TO PROVIDE A CLEAN JOINT FOR THE RESURFACING AFTER BACKFILLING.
CONCRETE ROAD SURFACE - HATCH		
GRAVEL ROAD SURFACE - HATCH		
GRASSED AREA - NO HATCH		ALL WORK AREAS ARE GRASSED UNLESS OTHERWISE NOTED.

GENERAL NOTES:
1. REFER TO SHEET E106 & E107 FOR WALL / FLOOR MOUNTED JUNCTION BOX & CONDUIT DETAILS.
2. REFER TO SHEET E108 FOR JUNCTION BOX, PULLBOX, & MANHOLE LEGENDS.
3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.

Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

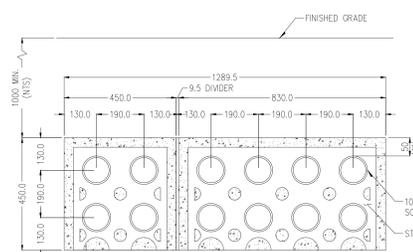
Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Project: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Designed by: **KAS**
Drawn by: **RTD/JJM**
Approved by: **KAS**

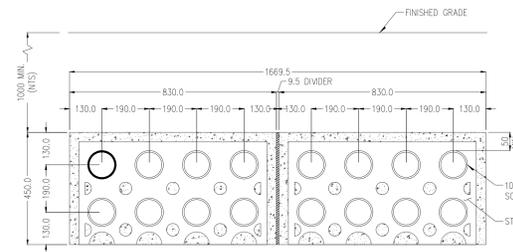
Project Manager: **Administrateur de Projets (PMSC)**
Drawing title: **PARTIAL SITE**
Title du dessin: **POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING**

Project no./No. du projet: **R.078549.001**
Drawing no./No. du dessin: **E105**
Revision no.: **0**
OF 21

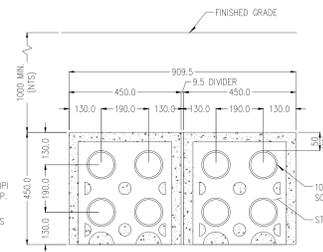




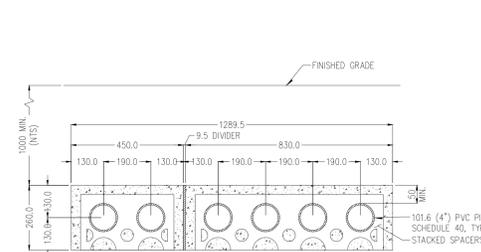
1 DUCTBANK - TYPE 1
E106
110 SHEET REF: E101, E102, E103, E104



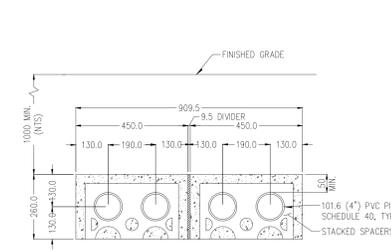
1A DUCTBANK - TYPE 1A
E106
110 SHEET REF: E101, E102, E103, E104



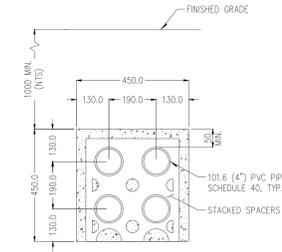
2 DUCTBANK - TYPE 2
E106
110 SHEET REF: E101, E102, E103, E104



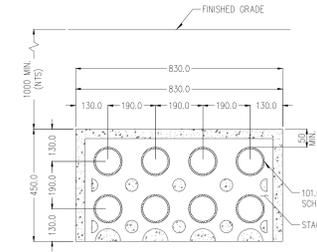
2A DUCTBANK - TYPE 2A
E106
110 SHEET REF: E101, E102, E103, E104



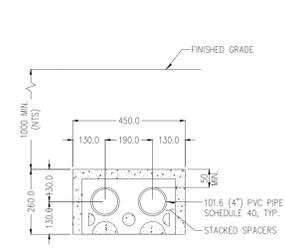
3 DUCTBANK - TYPE 3
E106
110 SHEET REF: E101, E102, E103, E104



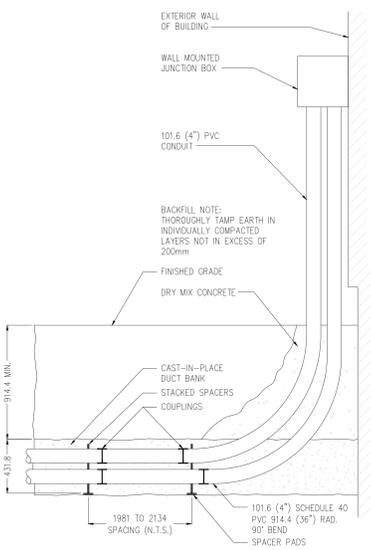
4 DUCTBANK - TYPE 4
E106
110 SHEET REF: E101, E102, E103, E104



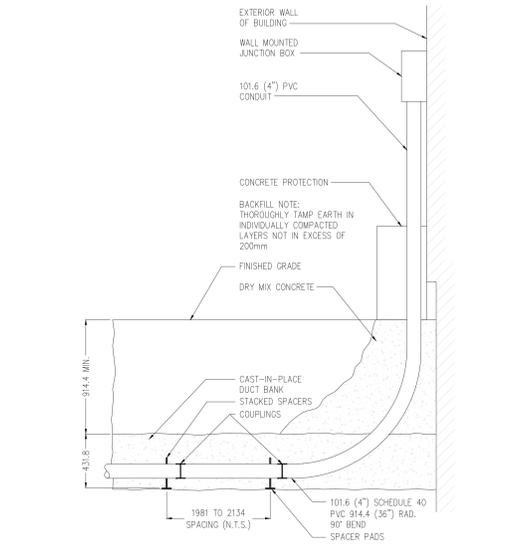
4A DUCTBANK - TYPE 4A
E106
110 SHEET REF: E101, E102, E103, E104



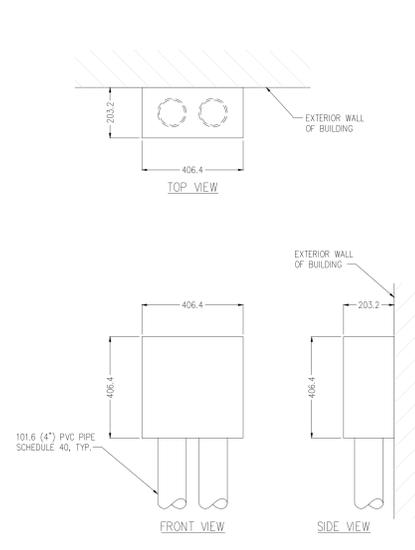
5 DUCTBANK - TYPE 5
E106
110 SHEET REF: E101, E102, E103, E104



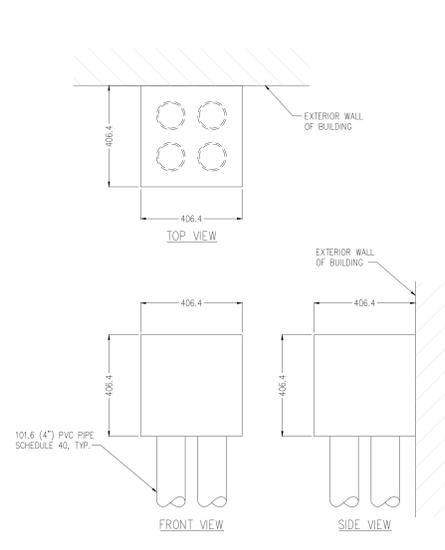
6 TURNING CONDUIT TO WALL MOUNTED JUNCTION BOX
E106
120 SHEET REF: E101, E102, E103, E104



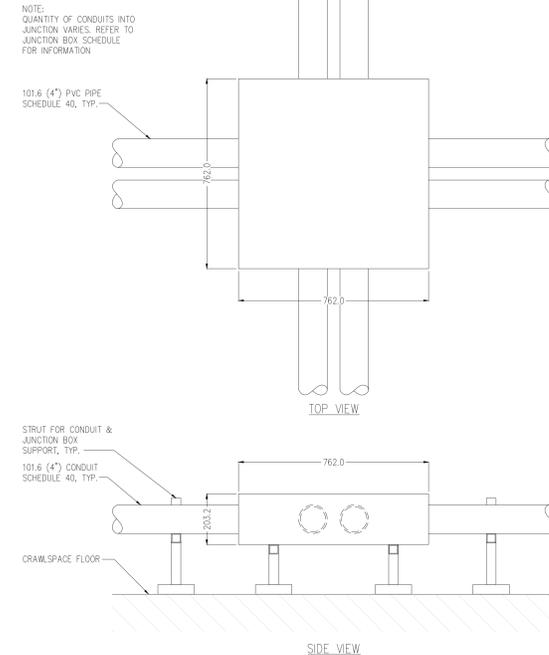
6A TURNING CONDUIT TO WALL MOUNTED JUNCTION BOX W/ CONC. PROTECTIN AGAINST VEHICLE IMPACT
E106
120 SHEET REF: E101, E102, E103, E104



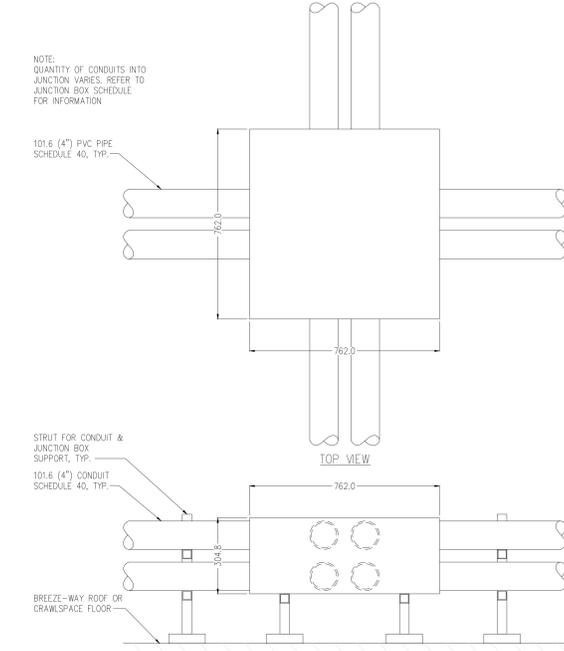
7 SMALL WALL MOUNTED JUNCTION BOX
E106
120 SHEET REF: E101, E102, E103, E104



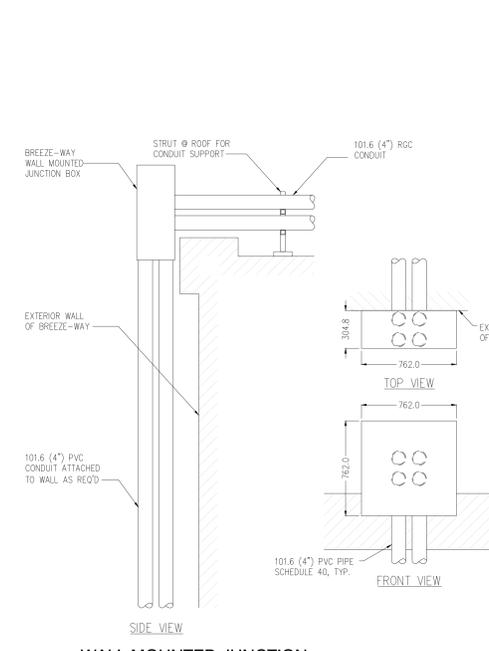
8 LARGE WALL MOUNTED JUNCTION BOX
E106
120 SHEET REF: E101, E102, E103, E104



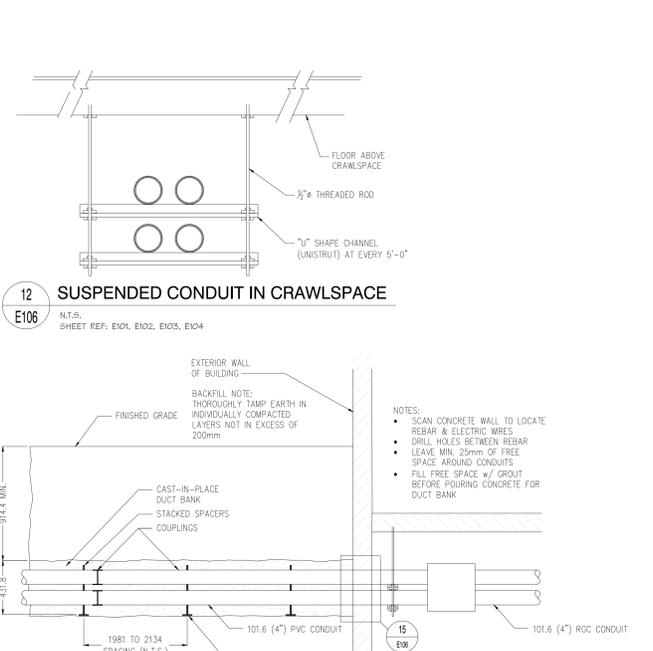
9 SMALL FLOOR MOUNTED JUNCTION BOX
E106
110 SHEET REF: E103



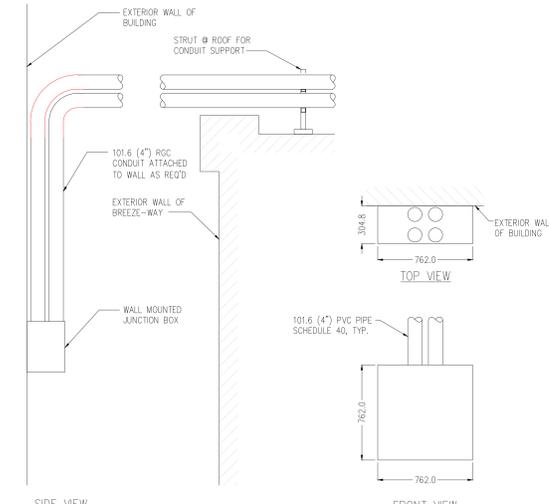
10 LARGE FLOOR MOUNTED JUNCTION BOX
E106
110 SHEET REF: E103, E104



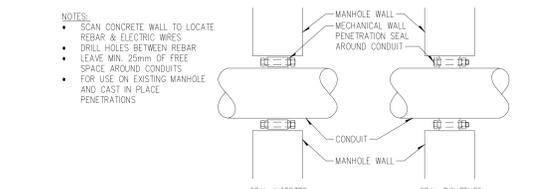
11 WALL MOUNTED JUNCTION BOX TO BREEZE-WAY ROOF
E106
120 SHEET REF: E103



12 SUSPENDED CONDUIT IN CRAWLSPACE
E106
N.T.S. SHEET REF: E101, E102, E103, E104



14 WALL MOUNTED JUNCTION BOX TO BREEZE-WAY ROOF
E106
110 SHEET REF: E103



15 CONDUIT PENETRATION SEAL
E106
115 SHEET REF: E104, E108

NOTE: QUANTITY OF CONDUITS INTO JUNCTION VARIES. REFER TO JUNCTION BOX SCHEDULE FOR INFORMATION

NOTE: QUANTITY OF CONDUITS INTO JUNCTION VARIES. REFER TO JUNCTION BOX SCHEDULE FOR INFORMATION

BACKFILL NOTE: THOROUGHLY TAMP EARTH IN INDIVIDUALLY COMPACTED LAYERS NOT IN EXCESS OF 200mm

- SCAN CONCRETE WALL TO LOCATE REBAR & ELECTRIC WIRES
- DRILL HOLES BETWEEN REBAR
- LEAVE MIN. 25mm OF FREE SPACE AROUND CONDUITS
- FILL FREE SPACE w/ GROUT BEFORE POURING CONCRETE FOR DUCT BANK

- SCAN CONCRETE WALL TO LOCATE REBAR & ELECTRIC WIRES
- DRILL HOLES BETWEEN REBAR
- LEAVE MIN. 25mm OF FREE SPACE AROUND CONDUITS
- FOR USE ON EXISTING MANHOLE AND CAST IN PLACE PENETRATIONS



Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
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1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES

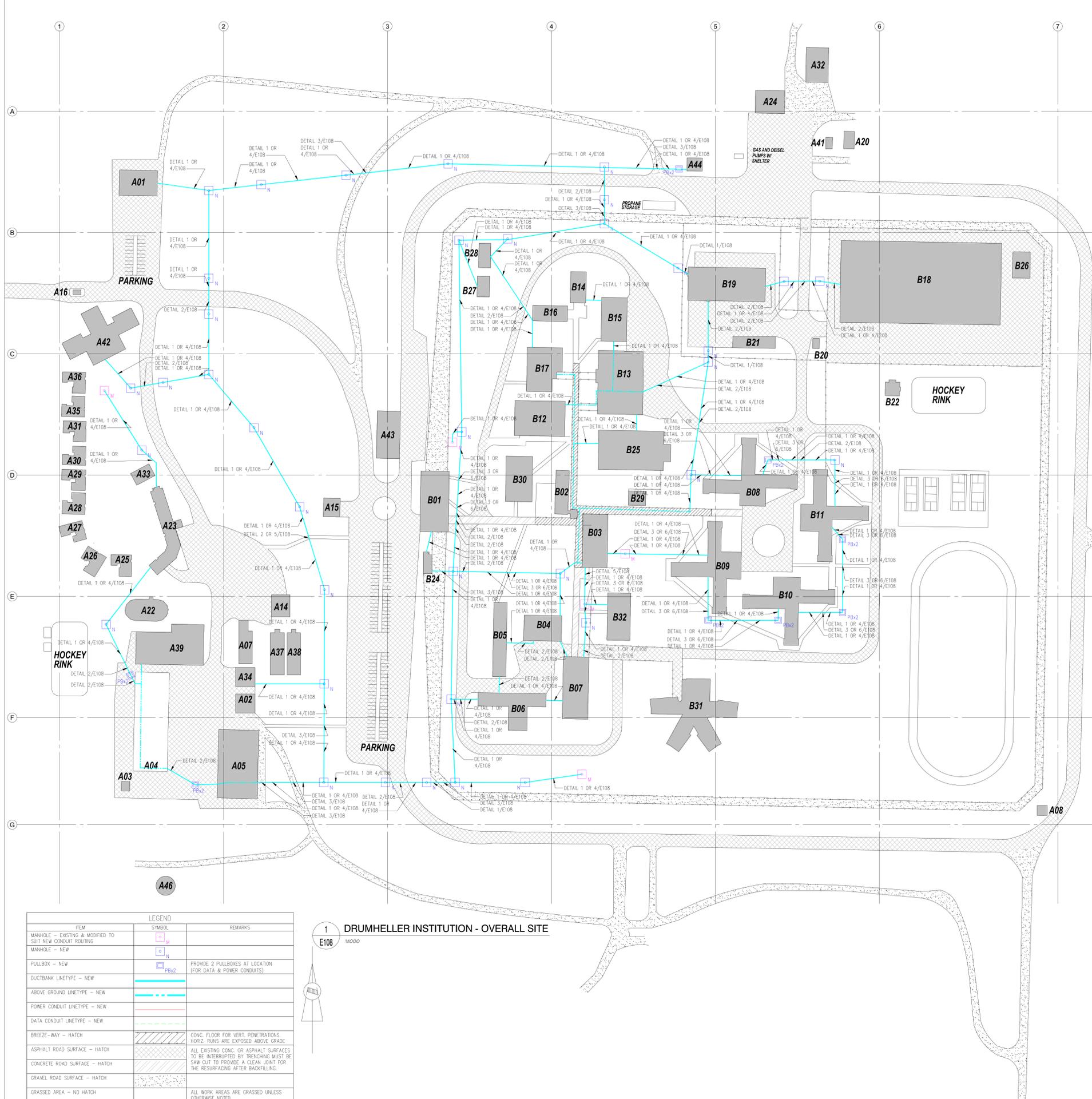
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Project: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Designed by: **KAS**
Drawn by: **RTD/JJM**
Approved by: **KAS**
Title du dessin: **DETAILS**

POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING

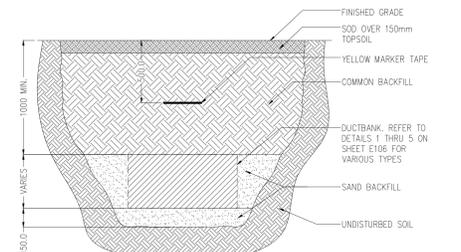
Project No./No. du projet: **R.078549.001**
Drawing No./No. du dessin: **E106**
Revision No.: **0**
OF 21



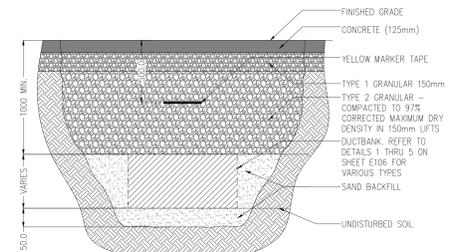
1 DRUMHELLER INSTITUTION - OVERALL SITE
1:10000

ITEM	SYMBOL	REMARKS
MANHOLE - EXISTING & MODIFIED TO SUIT NEW CONDUIT ROUTING		
MANHOLE - NEW		
PULLBOX - NEW		PROVIDE 2 PULLBOXES AT LOCATION (FOR DATA & POWER CONDUITS)
DUCTBANK LINETYPE - NEW		
ABOVE GROUND LINETYPE - NEW		
POWER CONDUIT LINETYPE - NEW		
DATA CONDUIT LINETYPE - NEW		
BREEZE-WAY - HATCH		CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. RINGS ARE EXPOSED ABOVE GRADE.
ASPHALT ROAD SURFACE - HATCH		ALL EXISTING CONC. OR ASPHALT SURFACES TO BE INTERRUPTED BY TRENCHING MUST BE SAW CUT TO PROVIDE A CLEAN JOINT FOR THE RESURFACING AFTER BACKFILLING.
CONCRETE ROAD SURFACE - HATCH		
GRAVEL ROAD SURFACE - HATCH		
GRASSED AREA - NO HATCH		ALL WORK AREAS ARE GRASSED UNLESS OTHERWISE NOTED.

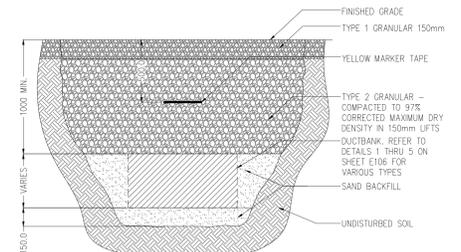
GENERAL NOTES:
 1. REFER TO SHEET E108 & E107 FOR WALL / FLOOR MOUNTED JUNCTION BOX & CONDUIT DETAILS.
 2. REFER TO SHEET E108 FOR JUNCTION BOX, PULLBOX, & MANHOLE LEGENDS.
 3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



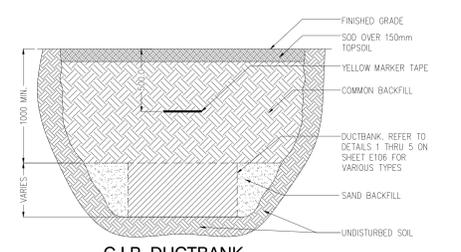
1 PRECAST DUCTBANK SOD SECTION, TYP.
E108 N.T.S.



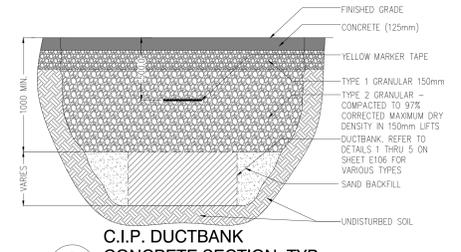
2 PRECAST DUCTBANK CONCRETE SECTION, TYP.
E108 N.T.S.



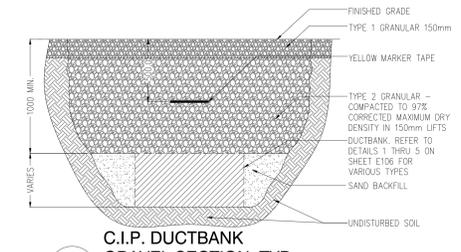
3 PRECAST DUCTBANK GRAVEL SECTION, TYP.
E108 N.T.S.



4 C.I.P. DUCTBANK SOD SECTION, TYP.
E108 N.T.S.



5 C.I.P. DUCTBANK CONCRETE SECTION, TYP.
E108 N.T.S.



6 C.I.P. DUCTBANK GRAVEL SECTION, TYP.
E108 N.T.S.



Revision	Description	Date
5	TENDER RESUBMITTAL 2018	2018/02/08
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3	100% RESUBMISSION	2017/10/16
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1	90% SUBMISSION	2017/06/30
6	ISSUED FOR TENDER	2016/04/17

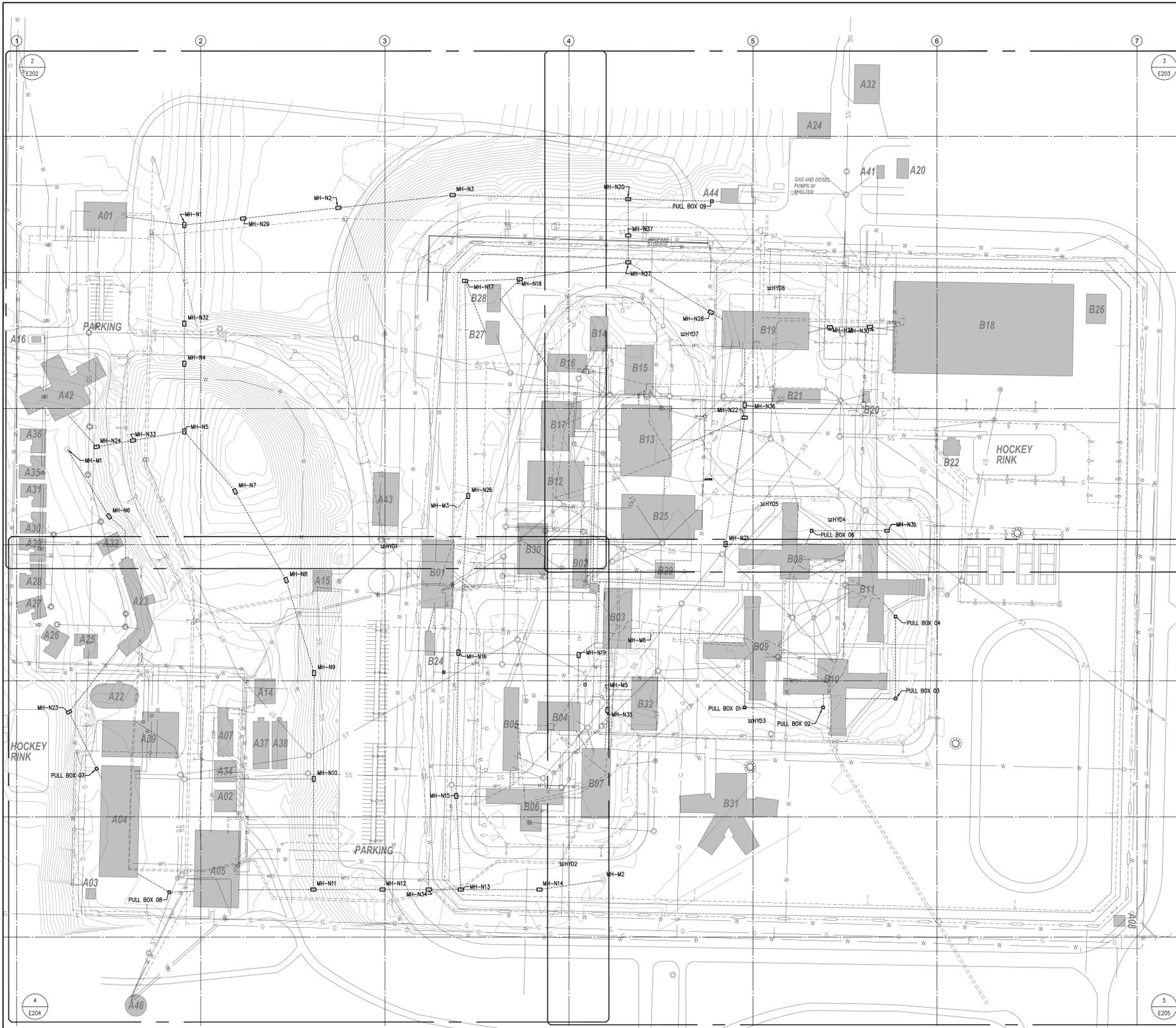
PUBLIC WORKS & GOVERNMENT SERVICES
 900 ROYAL BANK BLDG, 335 8TH AVE SW
 CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT REPLACEMENT/EXPANSION

Designed by: **KAS**
 Drawn by: **JM/RTD**
 Approved by: **KAS**
 Project Manager: **Administrateur de Projets (PM/C)**

BEDDING SECTIONS
POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING

Project No./No. du projet: **R.078549.001**
 Drawing No./No. du dessin: **E108**
 Revision No.: **0**



STRUCTURE NAME	DETAILS	NORTHING	EASTING	CONDITION
MH-M1	RM = 801.16 SE INV = 800.038	5698644.65	381835.04	MODIFIED
MH-M2	RM = 790.70 W INV = 789.300	5698375.51	382169.73	MODIFIED
MH-M3	RM = 792.85 NE INV = 791.168	5698608.11	382079.07	MODIFIED
MH-M5	RM = 792.90 S INV = 791.400 N INV = 791.552 E INV = 791.400	5698494.75	382171.65	MODIFIED
MH-M6	RM = 791.23 E INV = 789.905 W INV = 789.905	5698530.09	382200.18	MODIFIED
MH-N1	RM = 798.33 W INV = 796.378 E INV = 796.378 S INV = 796.378	5698784.75	381908.23	NEW
MH-N2	RM = 801.65 W INV = 800.434 E INV = 800.434	5698795.48	382004.43	NEW
MH-N3	RM = 792.59 W INV = 790.157 E INV = 790.157	5698803.46	382075.87	NEW
MH-N4	RM = 797.42 N INV = 795.403 S INV = 795.403	5698698.16	381908.23	NEW
MH-N5	RM = 801.82 N INV = 800.300 W INV = 800.300 SE INV = 800.300	5698655.82	381908.23	NEW
MH-N6	RM = 800.53 NW INV = 798.515 SE INV = 798.515	5698602.79	381861.19	NEW
MH-N7	RM = 805.41 NW INV = 804.019 SE INV = 804.019	5698618.42	381939.86	NEW
MH-N8	RM = 800.90 NW INV = 799.501 S INV = 799.501	5698563.00	381971.85	NEW
MH-N9	RM = 796.73 N INV = 795.333 S INV = 795.333	5698504.88	381989.31	NEW
MH-N10	RM = 796.49 N INV = 793.478 W INV = 794.328 S INV = 793.278	5698438.85	381989.07	NEW
MH-N11	RM = 797.36 N INV = 795.525 W INV = 796.145 E INV = 796.145	5698369.78	381988.81	NEW
MH-N12	RM = 791.70 W INV = 790.307 E INV = 790.307	5698369.78	382032.03	NEW
MH-N13	RM = 790.98 W INV = 788.365 E INV = 788.725 N INV = 789.165	5698369.76	382080.91	NEW
MH-N14	RM = 790.74 W INV = 789.159 E INV = 789.159	5698369.74	382130.07	NEW
MH-N15	RM = 792.04 S INV = 790.649 N INV = 790.649 E INV = 790.029	5698428.14	382078.09	NEW
MH-N16	RM = 791.92 S INV = 789.504 W INV = 788.704 E INV = 789.504 N INV = 788.704	5698517.79	382079.46	NEW
MH-N17	RM = 790.92 S INV = 788.901 E INV = 789.521 S INV = 789.521	5698749.86	382083.59	NEW
MH-N18	RM = 790.66 W INV = 789.263 E INV = 789.263 SW INV = 789.263	5698750.91	382117.78	NEW
MH-N19	RM = 792.24 W INV = 790.403 S INV = 791.023 NE INV = 791.023	5698516.22	382154.59	NEW
MH-N20	RM = 790.83 W INV = 788.831 E INV = 788.831 S INV = 788.831	5698800.86	382185.55	NEW
MH-N21	RM = 792.89 S INV = 791.458 E INV = 791.198 N INV = 791.450	5698585.50	382246.32	NEW

STRUCTURE NAME	DETAILS	NORTHING	EASTING	CONDITION
MH-N22	RM = 791.36 SW INV = 789.106 S INV = 790.106 N INV = 788.746	5698664.46	382258.34	NEW
MH-N23	RM = 803.48 SE INV = 801.828 NE INV = 801.828	5698480.62	381836.16	NEW
MH-N24	RM = 799.46 E INV = 797.465 NW INV = 798.265	5698646.23	381853.45	NEW
MH-N25	RM = 790.44 W INV = 786.927 E INV = 787.727	5698721.00	382311.56	NEW
MH-N26	RM = 792.64 S INV = 790.621 SW INV = 790.981 N INV = 791.371	5698615.54	382085.52	NEW
MH-N27	RM = 790.05 W INV = 788.230 N INV = 787.430 SE INV = 787.430	5698761.49	382185.54	NEW
MH-N28	RM = 790.18 NW INV = 786.963 SE INV = 787.143	5698730.31	382237.13	NEW
MH-N29	RM = 801.41 W INV = 800.190 E INV = 800.190	5698788.84	381944.93	NEW
MH-N30	RM = 790.81 W INV = 787.892 E INV = 787.892	5698721.17	382336.57	NEW
MH-N31	RM = 790.53 S INV = 787.910 W INV = 787.910	5698593.83	382347.24	NEW
MH-N32	RM = 797.58 N INV = 795.768 S INV = 794.968	5698723.16	381908.23	NEW
MH-N33	RM = 798.72 E INV = 796.502 W INV = 795.502	5698650.20	381876.10	NEW
MH-N34	RM = 792.28 W INV = 790.143 N INV = 790.143	5698369.76	382060.91	NEW
MH-N35	RM = 791.92 S INV = 790.524 N INV = 790.524	5698481.80	382172.57	NEW
MH-N36	RM = 791.41 S INV = 789.989 N INV = 789.889	5698672.37	382258.34	NEW
MH-N37	RM = 791.00 N INV = 788.286 S INV = 787.486	5698778.23	382185.54	NEW
Pull Box 01	RM = 791.43 N INV = 789.962 E INV = 789.962	5698483.47	382258.29	NEW
Pull Box 02	RM = 792.25 W INV = 790.784 N INV = 790.784	5698483.47	382307.35	NEW
Pull Box 03	RM = 790.63 W INV = 790.170 N INV = 789.170	5698489.01	382352.56	NEW
Pull Box 04	RM = 791.40 S INV = 789.932 NW INV = 789.932	5698540.22	382352.56	NEW
Pull Box 06	RM = 793.03 E INV = 791.563 SW INV = 791.563	5698593.83	382300.11	NEW
Pull Box 07	RM = 800.35 SE INV = 798.884 NW INV = 798.884	5698445.17	381853.44	NEW
Pull Box 08	RM = 799.70 NW INV = 798.236 E INV = 798.236	5698368.09	381898.81	NEW
Pull Box 09	RM = 790.62 W INV = 789.152 E INV = 789.152	5698799.62	382237.78	NEW

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

NO.	TENDER RESUBMITTAL 2018	DATE
5	TENDER RESUBMISSION	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES

900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Contract: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Project No.: 10112
Drawing No.: 10112-01
Revision No.: 1

OVERALL SITE

POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING ALIGNMENTS

Project No.: R.078549.001
Drawing No.: E201
Revision No.: 0

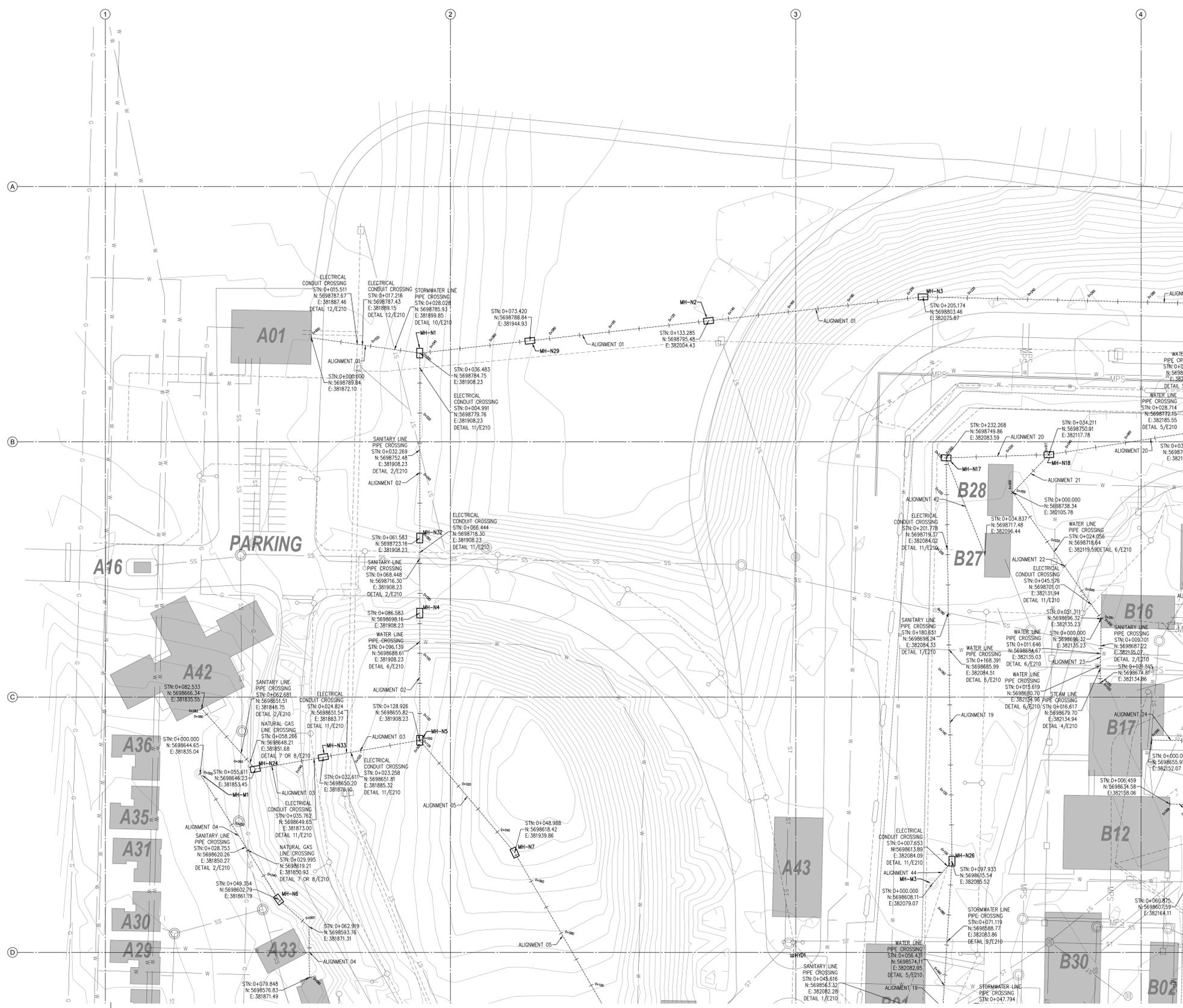
1 DRUMHELLER INSTITUTION - OVERALL SITE
E201
1:0000

ITEM	SYMBOL	REMARKS
EXISTING FENCE	---	
EXISTING WATER LINE	W	
EXISTING STEAM LINE	MS	
EXISTING STORMWATER LINE	ST	
EXISTING SANITARY LINE	SO	
EXISTING GAS LINE	G	
EXISTING ELECTRICAL CONDUIT	---	
NEW ELECTRICAL CONDUIT	---	
NEW MANHOLE OR PULLBOX	□	REFER TO STRUCTURE TABLE ON SHEET E201 FOR STRUCTURE INFORMATION
EXISTING HYDRANT (HYD)	⊗	BENCHMARK REFERENCE
EXISTING CATCH BASIN OR PIT	⊗	
EXISTING MANHOLE	⊙	
EXISTING LIGHT STANDARD	⊙	
EXISTING LAMP STANDARD	⊙	

BENCHMARK REFERENCE			
TAG	DESCRIPTION	NORTHING	EASTING
HYD1	TOP OF HYDRANT NUT	5698584.25	382032.24
HYD2	TOP OF HYDRANT NUT	5698385.84	382144.00
HYD3	TOP OF HYDRANT NUT	5698475.16	382261.73
HYD4	TOP OF HYDRANT NUT	5698600.78	382311.74
HYD5	TOP OF HYDRANT NUT	5698610.65	382269.59
HYD6	TOP OF HYDRANT NUT	5698625.95	382233.76
HYD7	TOP OF HYDRANT NUT	5698716.73	382219.68
HYD8	TOP OF HYDRANT NUT	5698745.43	382273.67

A BUILDINGS - MINIMUM SECURITY AREA		
BUILDING USAGE	NUMBER	BUILDING USAGE
ADMINISTRATION	A-01	CARAGE
FIRE HALL	A-02	ANNEX HOUSE A-1
STORAGE	A-03	ANNEX HOUSE B-1
STORES	A-04	ANNEX HOUSE C-3
CENTRAL HEATING PLANT	A-05	ANNEX HOUSE D-4
STORAGE	A-06	ANNEX HOUSE E-5
OLD GREENHOUSE	A-07	ANNEX HOUSE F-6
GUARD TOWER T1	A-08	ANNEX HOUSE G-7
GUARD TOWER T3	A-09	COMPOSTER BUILDING
GUARD TOWER #2 (REMOVED)	A-10	PFV - ANNEX
GUARD TOWER #3 (REMOVED)	A-11	HOBBY SHOP
GUARD TOWER #4 (REMOVED)	A-12	ANNEX HOUSE H-8
RIFLE RANGE	A-13	ANNEX HOUSE I-9
GREENHOUSE STORAGE	A-14	GREENHOUSE
ARMOURY	A-15	GREENHOUSE
CHECKPOINT CHARLIE	A-16	MULTI-PURPOSE BUILDING
GAS HUT	A-17	SILVER STORAGE BUILDING
STAFF TRAINING CENTRE (DEMOLISHED)	A-18	STORAGE (NO SERVICE)
PWC TRAILER (DEMOLISHED)	A-19	50 BED LIVING UNIT
HAZARDOUS STORAGE (NO SERVICE)	A-20	GO BUILDING
SMOKE HOUSE	A-21	GENERATOR BUILDING
SPRUNG STRUCTURE	A-22	STORAGE BUILDING
ANNEX ADMINISTRATION	A-23	WATER TOWER

B BUILDINGS - MEDIUM SECURITY AREA		
BUILDING USAGE	NUMBER	BUILDING USAGE
	B-01	SCHOOL
	B-02	CORCAN
ADMINISTRATION	B-03	MAINTENANCE BUILDING
INTAKE ASSESSMENT UNIT	B-04	SALLY PORT
DISSOCIATION	B-05	MAINTENANCE STORAGE
A AND D	B-06	FIELDHOUSE SLAB ELECT-SUB
HEALTH CARE INTAKE UNIT	B-07	CURLING RINK (DEMOLISHED)
LIVING UNITS #8	B-08	MCCP
LIVING UNITS #9	B-09	GYMNASIUM
LIVING UNITS #10	B-10	INDUSTRIES STORAGE
LIVING UNITS #11	B-11	FAMILY VISITING #1 (S)
NATIVE CULTURAL CENTRE	B-12	FAMILY VISITING #2 (N)
KITCHEN	B-13	INMATE CANTEN (DEMOLISHED)
CATHOLIC CHAPEL	B-14	PROGRAM/ADMIN BUILDING
S.I.S.	B-15	LIVING UNIT
PROTESTANT CHAPEL	B-16	GI BUILDING



DRUMHELLER INSTITUTION
PARTIAL OF NORTHWEST QUARTER
E202 1500 SHEET REF. E201

BENCHMARK REFERENCE			
TAG	DESCRIPTION	NORTHING	EASTING
HYD1	TOP OF HYDRANT NUT	5698584.25	382032.24
HYD2	TOP OF HYDRANT NUT	5698385.84	382144.00
HYD3	TOP OF HYDRANT NUT	5698475.16	382261.73
HYD4	TOP OF HYDRANT NUT	5698600.78	382311.74
HYD5	TOP OF HYDRANT NUT	5698610.65	382269.59
HYD6	TOP OF HYDRANT NUT	5698625.95	382233.76
HYD7	TOP OF HYDRANT NUT	5698716.73	382219.68
HYD8	TOP OF HYDRANT NUT	5698745.43	382273.67

LEGEND		
ITEM	SYMBOL	REMARKS
EXISTING FENCE	—	
EXISTING WATER LINE	—	
EXISTING STEAM LINE	—	
EXISTING STORMWATER LINE	—	
EXISTING SANITARY LINE	—	
EXISTING GAS LINE	—	
EXISTING ELECTRICAL CONDUIT	—	
NEW ELECTRICAL CONDUIT	—	
NEW MANHOLE OR PULLBOX	□	REFER TO STRUCTURE TABLE ON SHEET E201 FOR STRUCTURE INFORMATION
EXISTING HYDRANT (HYD#)	⊕	BENCHMARK REFERENCE
EXISTING CATCH BASIN OR PIT	⊕	
EXISTING MANHOLE	⊕	
EXISTING LIGHT STANDARD	⊕	
EXISTING LAMP STANDARD	⊕	

GENERAL NOTES:
1. REFER TO SHEETS E206 TO E209 FOR ALIGNMENT PROFILES.
2. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



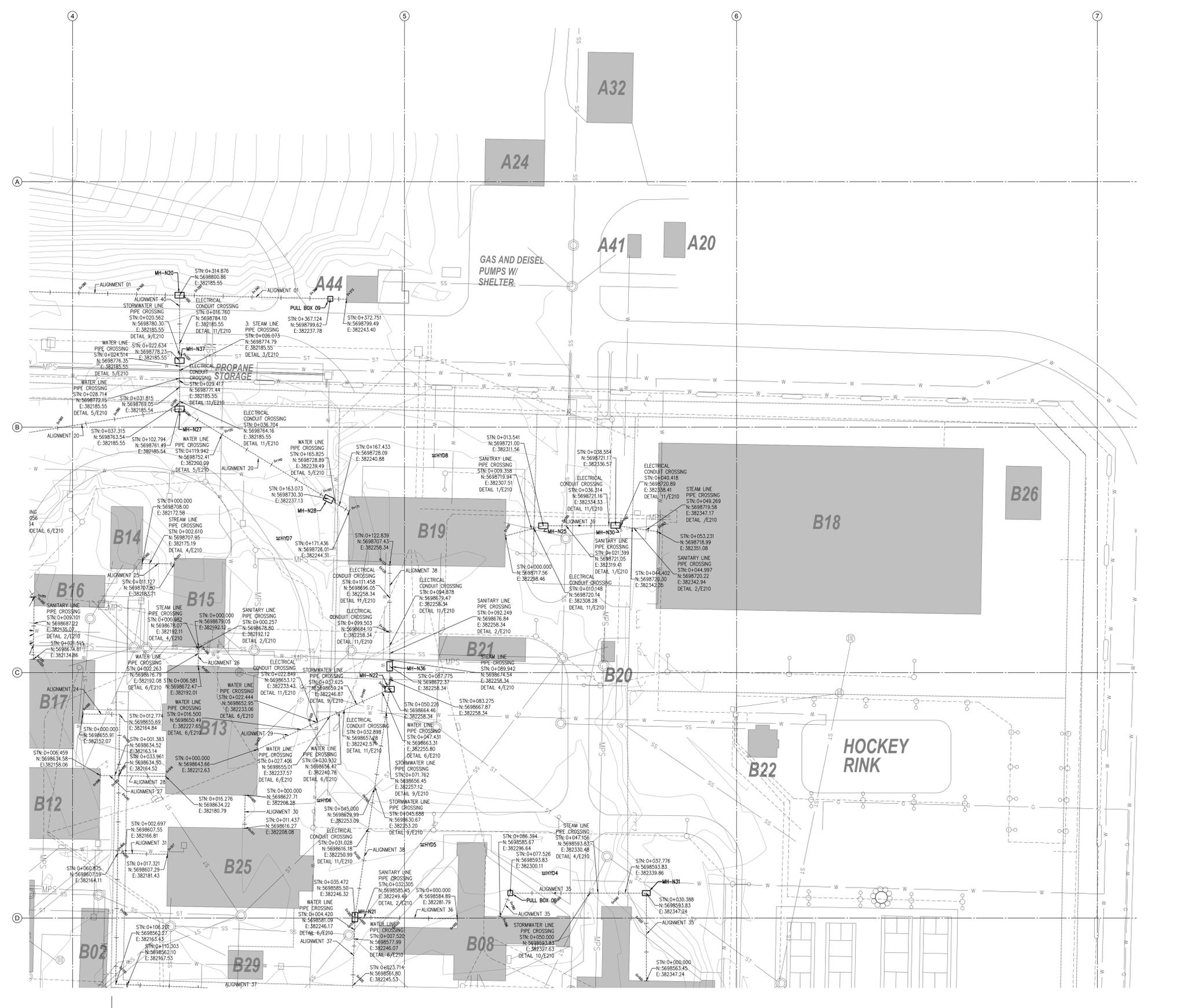
NO.	DESCRIPTION	DATE
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSIONS	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
Client: **CSC DRUMHELLER INSTITUTION**
Title: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Author: **SN**
Checked: **JJM**
Reviewed: **KAS**

Scale: **PARTIAL SITE**
Drawing No.: **POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING ALIGNMENTS**



DRUMHELLER INSTITUTION
PARTIAL OF NORTHEAST QUARTER
1500
SHEET REF. E203

BENCHMARK REFERENCE			
TAG	DESCRIPTION	NORTHING	EASTING
HYD1	TOP OF HYDRANT NUT	5698584.25	382032.24
HYD2	TOP OF HYDRANT NUT	5698385.84	382144.00
HYD3	TOP OF HYDRANT NUT	5698475.16	382261.73
HYD4	TOP OF HYDRANT NUT	5698600.78	382311.74
HYD5	TOP OF HYDRANT NUT	5698610.65	382269.59
HYD6	TOP OF HYDRANT NUT	5698625.95	382233.76
HYD7	TOP OF HYDRANT NUT	5698716.73	382219.68
HYD8	TOP OF HYDRANT NUT	5698745.43	382273.67

LEGEND		
ITEM	SYMBOL	REMARKS
EXISTING FENCE	---	
EXISTING WATER LINE	W	
EXISTING STEAM LINE	ST	
EXISTING STORMWATER LINE	STW	
EXISTING SANITARY LINE	SS	
EXISTING GAS LINE	G	
EXISTING ELECTRICAL CONDUIT	EC	
NEW ELECTRICAL CONDUIT	EC	
NEW MANHOLE OR PULLBOX	□	REFER TO STRUCTURE TABLE ON SHEET E201 FOR STRUCTURE INFORMATION
EXISTING HYDRANT (HYD#)	HYD#	BENCHMARK REFERENCE
EXISTING CATCH BASIN OR PIT	CB	
EXISTING MANHOLE	○	
EXISTING LIGHT STANDARD	○	
EXISTING LAMP STANDARD	○	

GENERAL NOTES:
1. REFER TO SHEET E201 FOR MANHOLE REFERENCES AND BENCHMARK REFERENCES.
2. REFER TO SHEETS E206 TO E209 FOR ALIGNMENT PROFILES.
3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



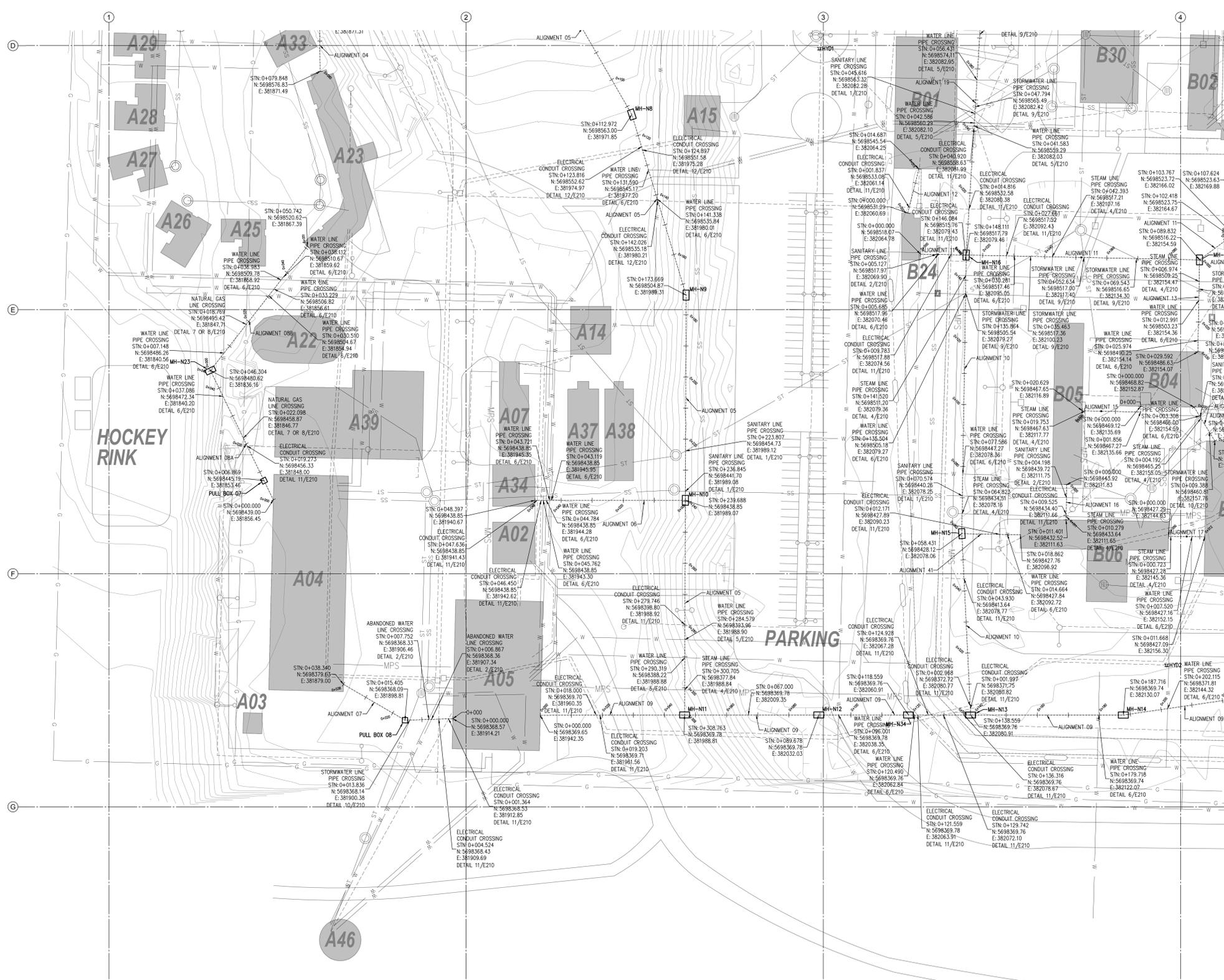
NO.	DESCRIPTION	DATE
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT REPLACEMENT/EXPANSION

Project: DRUMHELLER INSTITUTION
Client: CSC
Contract: DRUMHELLER CONDUIT REPLACEMENT/EXPANSION
Drawing No.: E203
Revision No.: 0

PARTIAL SITE
POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING ALIGNMENTS



HOCKEY RINK

PARKING



DRUMHELLER INSTITUTION
PARTIAL OF SOUTHWEST QUARTER
4
E204
1500
SHEET REF. E201

BENCHMARK REFERENCE		
TAG	DESCRIPTION	NORTHING EASTING ELEVATION (m)
HYD1	TOP OF HYDRANT NUT	569858.25 382032.24 794.31
HYD2	TOP OF HYDRANT NUT	569838.84 382144.00 791.61
HYD3	TOP OF HYDRANT NUT	569847.16 382261.73 791.52
HYD4	TOP OF HYDRANT NUT	569860.78 382311.74 793.29
HYD5	TOP OF HYDRANT NUT	569861.65 382269.59 793.06
HYD6	TOP OF HYDRANT NUT	569862.95 382233.76 793.23
HYD7	TOP OF HYDRANT NUT	569876.73 382219.68 791.99
HYD8	TOP OF HYDRANT NUT	569875.43 382273.67 792.12

LEGEND		
ITEM	SYMBOL	REMARKS
EXISTING FENCE	[Symbol]	
EXISTING WATER LINE	[Symbol]	
EXISTING STEAM LINE	[Symbol]	
EXISTING STORMWATER LINE	[Symbol]	
EXISTING SANITARY LINE	[Symbol]	
EXISTING GAS LINE	[Symbol]	
EXISTING ELECTRICAL CONDUIT	[Symbol]	
NEW ELECTRICAL CONDUIT	[Symbol]	
NEW MANHOLE OR PULLBOX	[Symbol]	REFER TO STRUCTURE TABLE ON SHEET E201 FOR STRUCTURE INFORMATION
EXISTING HYDRANT (HYD#)	[Symbol]	BENCHMARK REFERENCE
EXISTING CATCH BASIN OR PIT	[Symbol]	
EXISTING MANHOLE	[Symbol]	
EXISTING LIGHT STANDARD	[Symbol]	
EXISTING LAMP STANDARD	[Symbol]	

GENERAL NOTES:
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3. FOR CLARITY, ONLY NEW & MODIFIED ELECTRICAL EQUIPMENT ARE SHOWN ON PLANS.



No.	REVISION	DATE
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

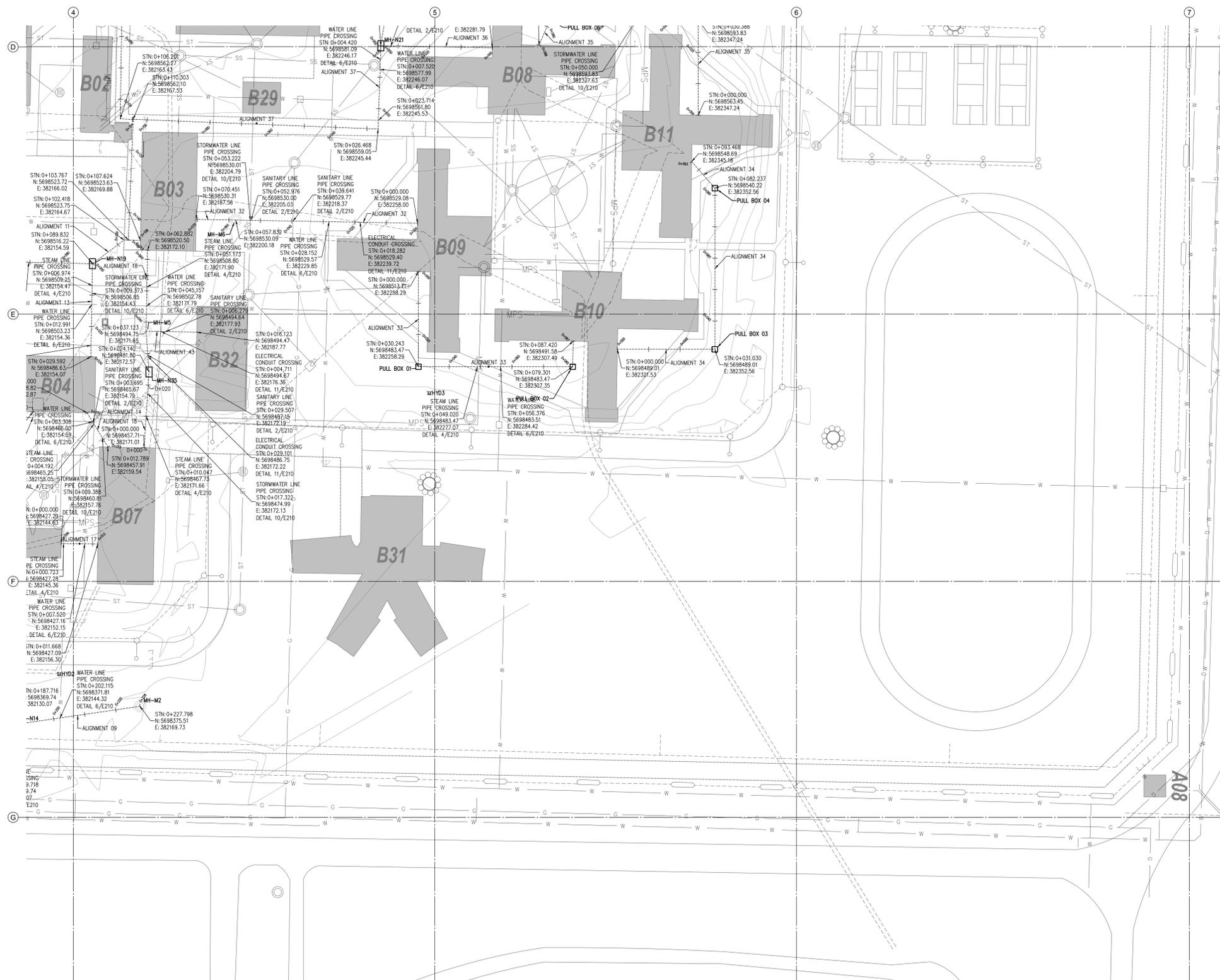
PUBLIC WORKS & GOVERNMENT SERVICES

900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

**DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT
REPLACEMENT/EXPANSION**

Client: **SN**
Designer: **JJM**
Checker: **KAS**

**PARTIAL SITE
POWER & COMMUNICATION
SYSTEM MANHOLES
& CONDUITS ROUTING ALIGNMENTS**



5
E205
1500
SHEET REF. E201

BENCHMARK REFERENCE			
TAG	DESCRIPTION	NORTHING	EASTING
HYD1	TOP OF HYDRANT NUT	5698584.25	382032.24
HYD2	TOP OF HYDRANT NUT	5698385.84	382144.00
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HYD6	TOP OF HYDRANT NUT	5698625.95	382233.76
HYD7	TOP OF HYDRANT NUT	5698716.73	382219.68
HYD8	TOP OF HYDRANT NUT	5698745.43	382273.67

LEGEND		
ITEM	SYMBOL	REMARKS
EXISTING FENCE	— — — — —	
EXISTING WATER LINE	— — — — —	
EXISTING STEAM LINE	— — — — —	
EXISTING STORMWATER LINE	— — — — —	
EXISTING SANITARY LINE	— — — — —	
EXISTING GAS LINE	— — — — —	
EXISTING ELECTRICAL CONDUIT	— — — — —	
NEW ELECTRICAL CONDUIT	— — — — —	
NEW MANHOLE OR PULLBOX	□ □	REFER TO STRUCTURE TABLE ON SHEET E201 FOR STRUCTURE INFORMATION
EXISTING HYDRANT (HYD#)	⊕	BENCHMARK REFERENCE
EXISTING CATCH BASIN OR PIT	⊕ □	
EXISTING MANHOLE	⊕	
EXISTING LIGHT STANDARD	⊕ ○ ○ ○	
EXISTING LAMP STANDARD	⊕ ○	

GENERAL NOTES:
 1. REFER TO SHEET E201 FOR MANHOLE REFERENCES AND BENCHMARK REFERENCES.
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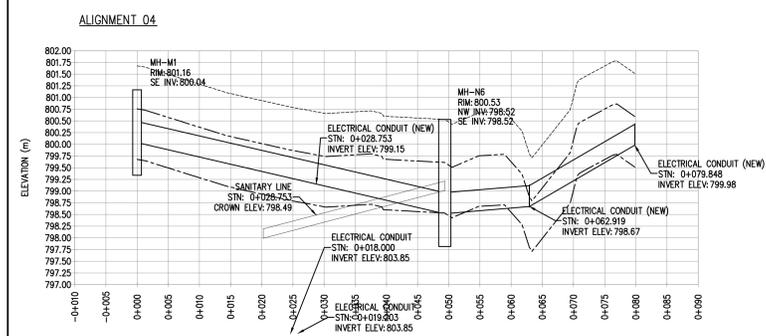
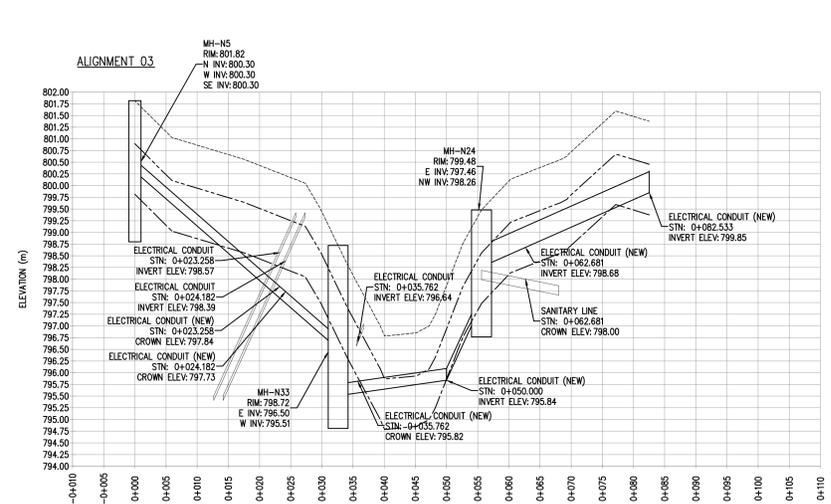
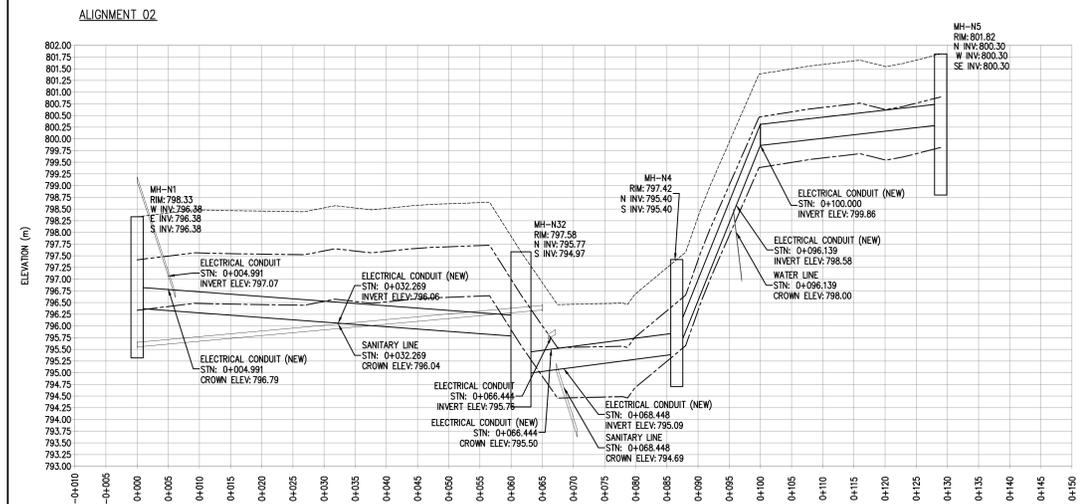
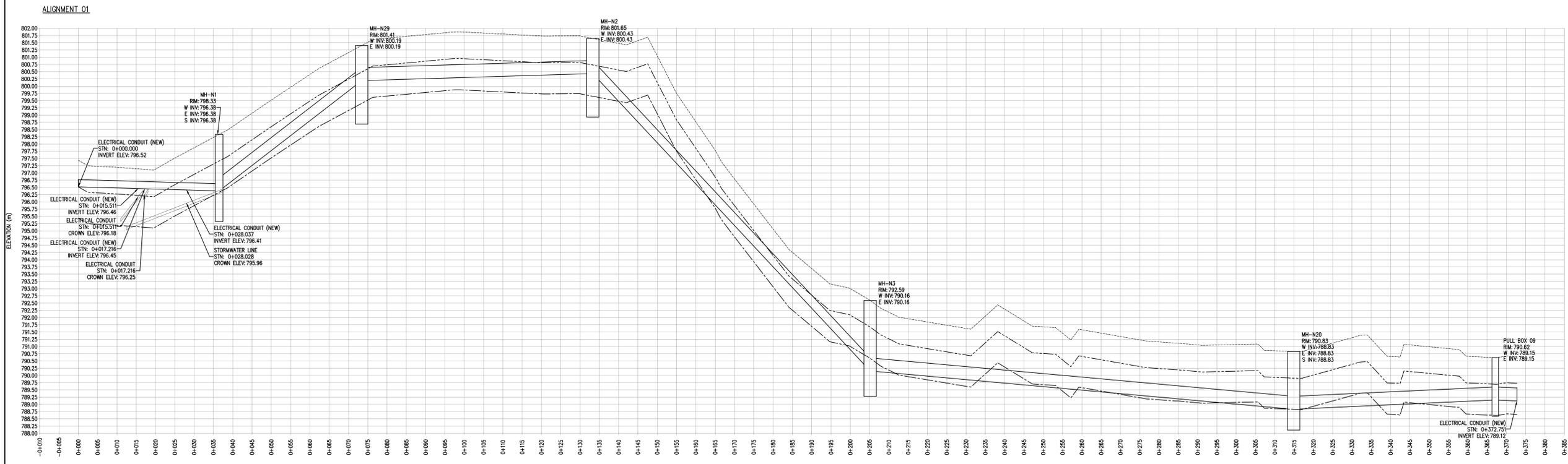
NO.	DESCRIPTION	DATE
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
 900 ROYAL BANK BLDG, 335 8TH AVE SW
 CALGARY, AB. T2P 1C9

Project: **DRUMHELLER, AB.**
 Client: **CSC DRUMHELLER INSTITUTION**
 Title: **DRUMHELLER CONDUIT REPLACEMENT/EXPANSION**

Author: **SN**
 Designer: **JJM**
 Checker: **KAS**

Scale: **PARTIAL SITE**
 System: **POWER & COMMUNICATION SYSTEM MANHOLES & CONDUITS ROUTING ALIGNMENTS**



5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT REPLACEMENT/EXPANSION

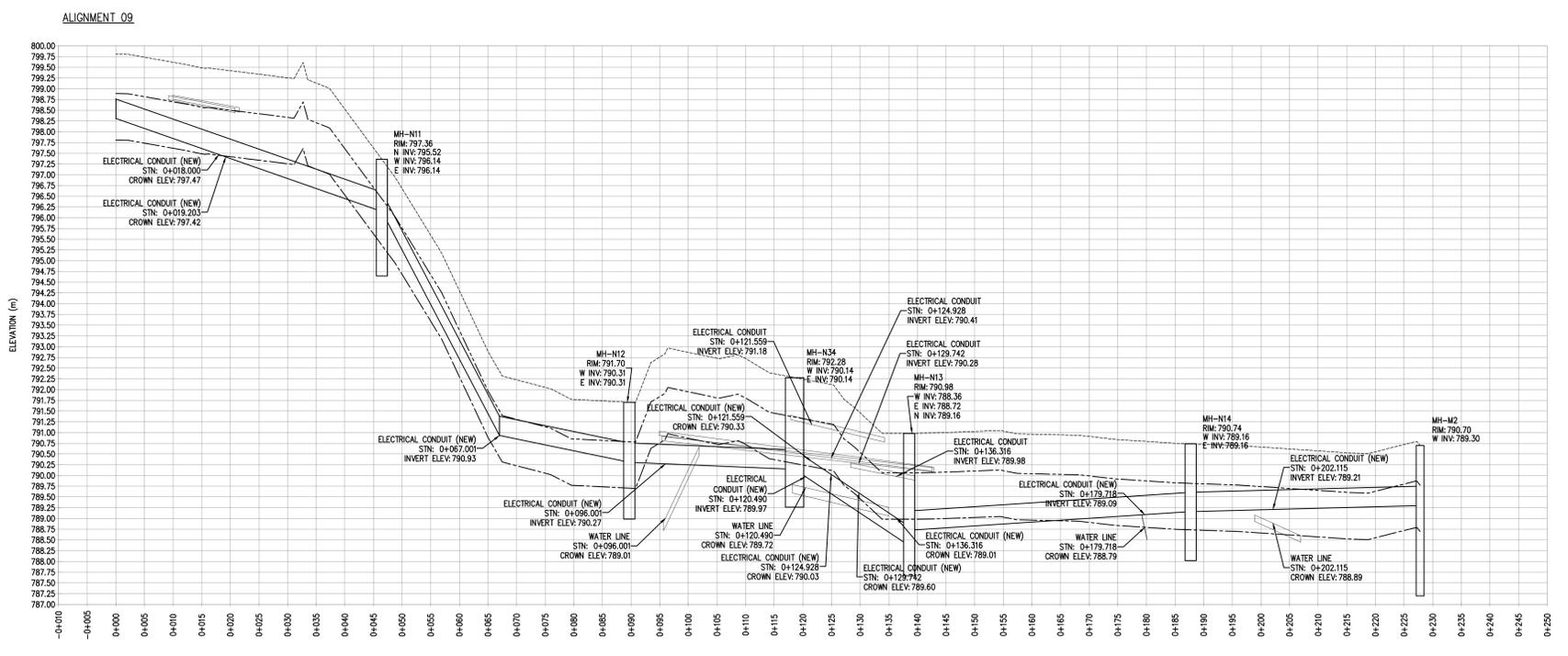
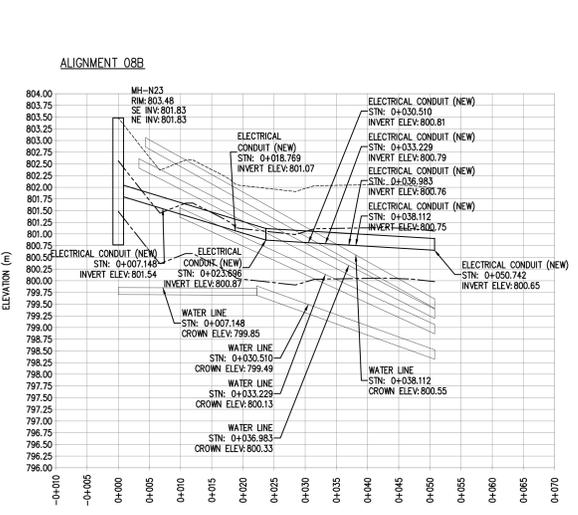
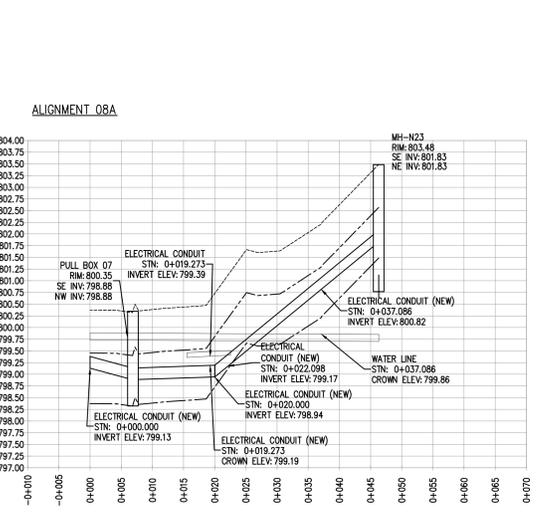
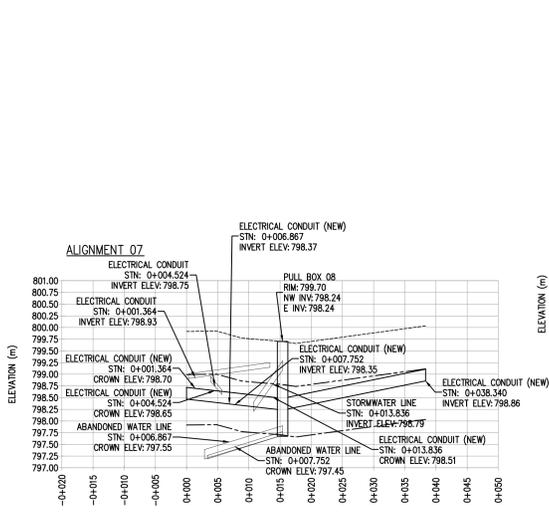
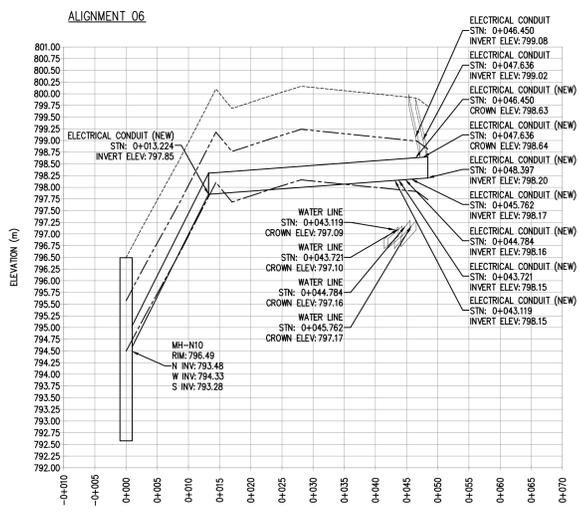
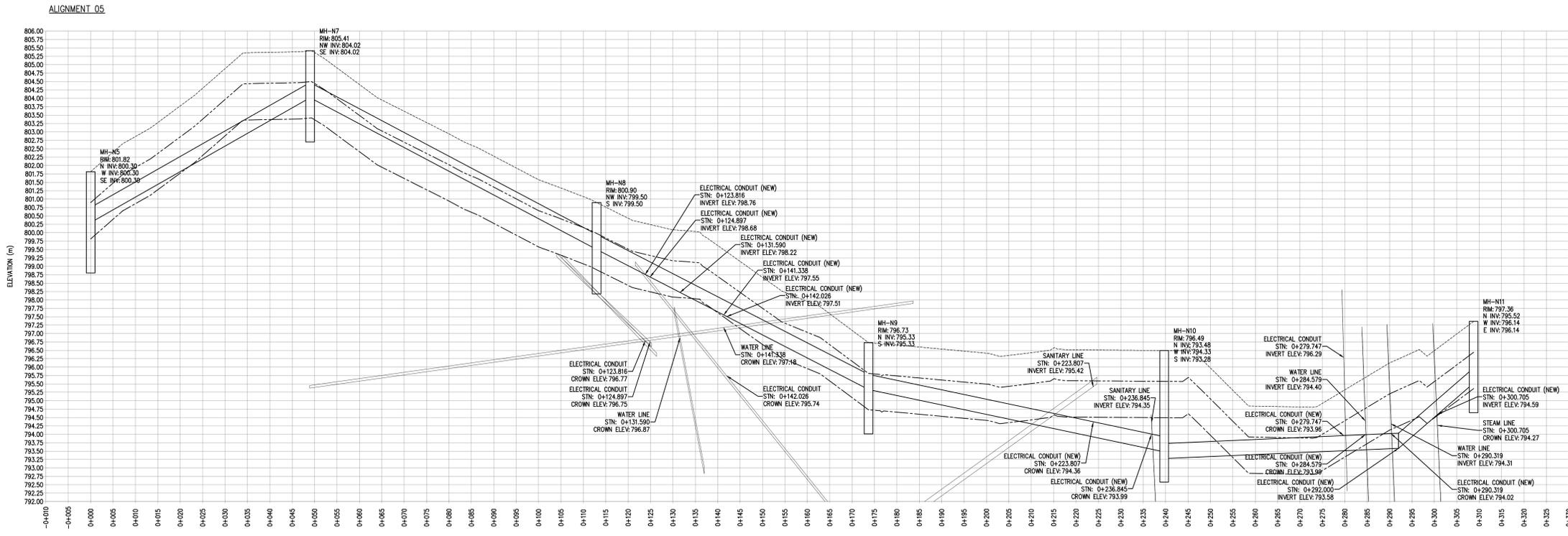
Project No. 18-01-0000-0000
Drawing No. 18-01-0000-0000-0000
Revision No. 0

ALIGNMENT PROFILES

ITEM	SYMBOL	REMARKS
PROFILE - EXISTING GRADE	---	
PROFILE - 0.92m OFFSET FROM EXISTING GRADE	---	
PROFILE - 2.00m OFFSET FROM EXISTING GRADE	---	

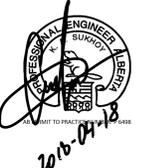
GENERAL NOTES:
1. ALL EXISTING SANITARY LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
2. ALL EXISTING STEAM LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
3. ALL EXISTING WATER LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
4. ALL EXISTING STORMWATER LINES ASSUMED 1.2m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
5. ALL EXISTING ELECTRICAL CONDUIT ASSUMED 0.9m GROUND COVER AND MINIMUM OF #100mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.

R.078549.001 **E206** 0
OF 21



ITEM	SYMBOL	REMARKS
PROFILE - EXISTING GRADE	---	
PROFILE - 0.92m OFFSET FROM EXISTING GRADE	---	
PROFILE - 2.00m OFFSET FROM EXISTING GRADE	---	

- GENERAL NOTES:**
- ALL EXISTING SANITARY LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
 - ALL EXISTING STEAM LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
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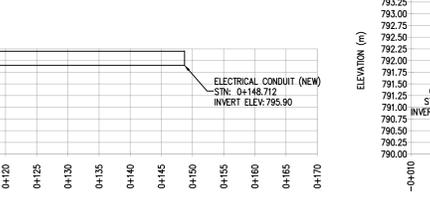
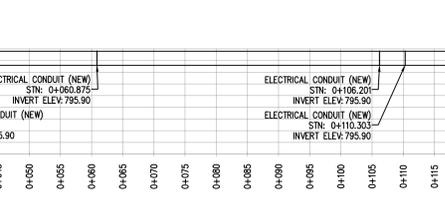
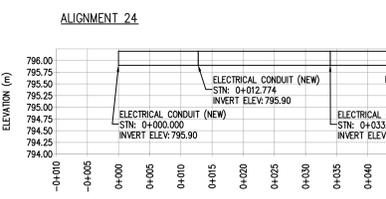
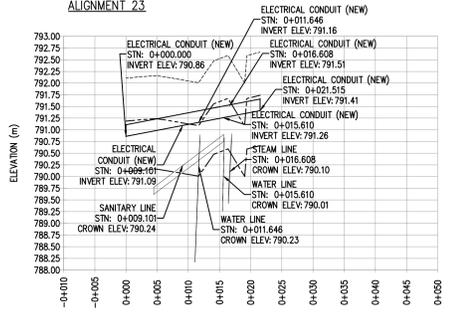
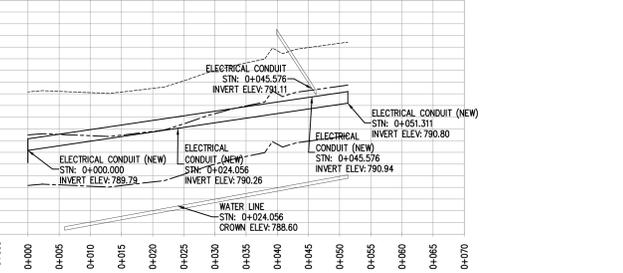
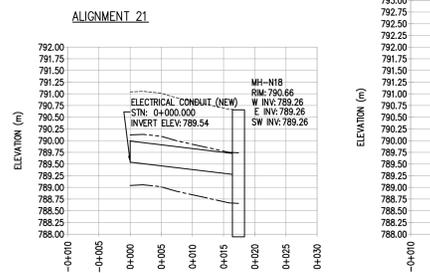
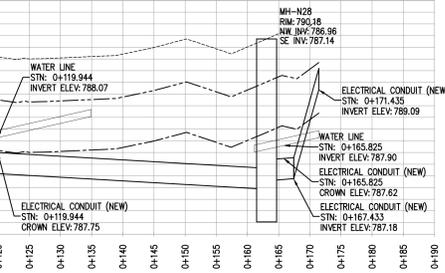
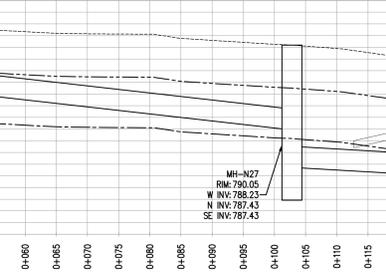
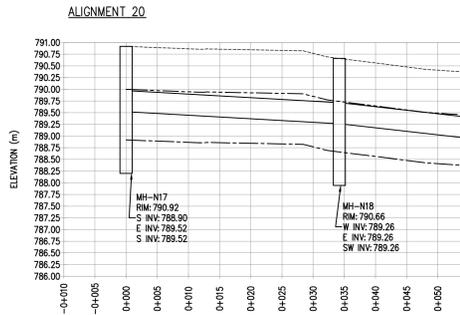
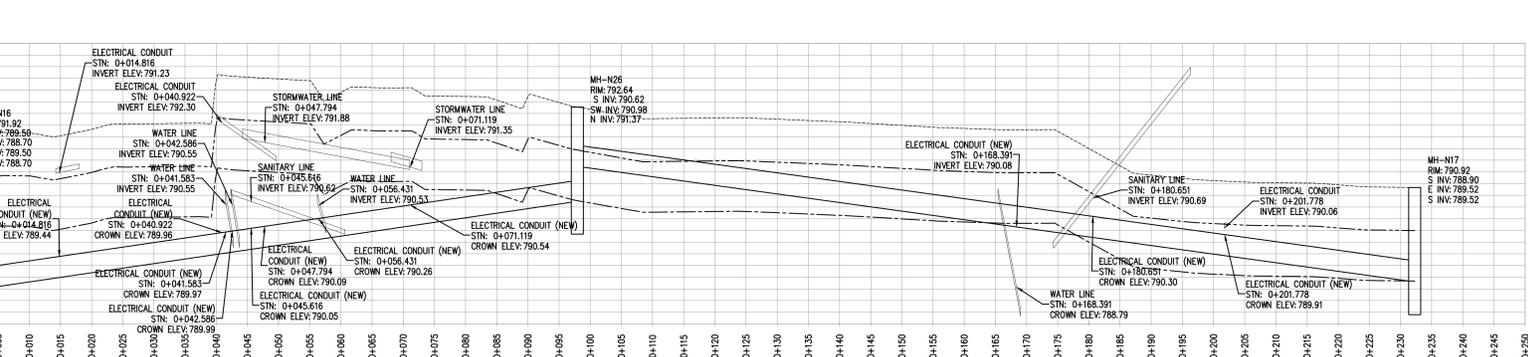
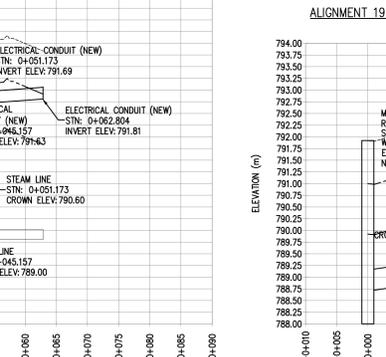
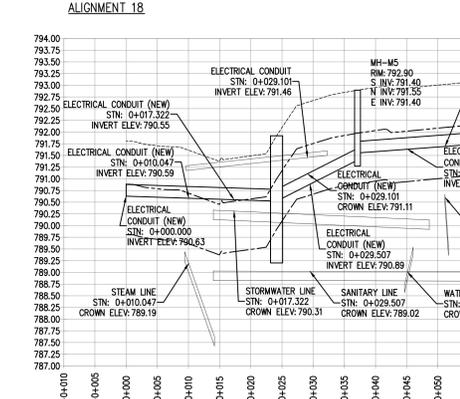
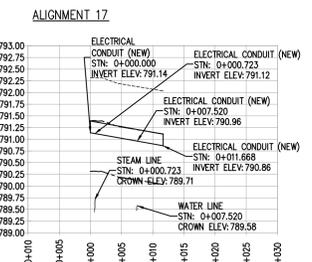
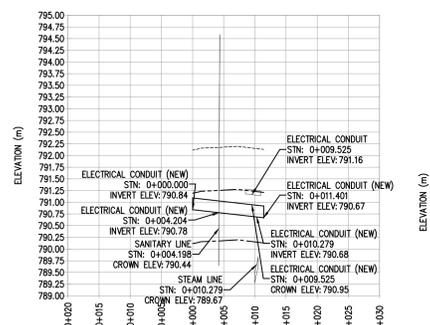
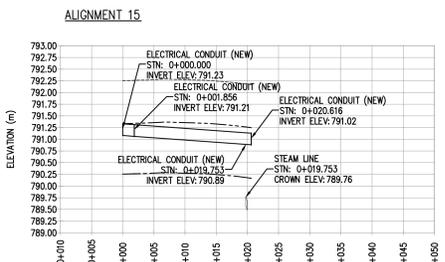
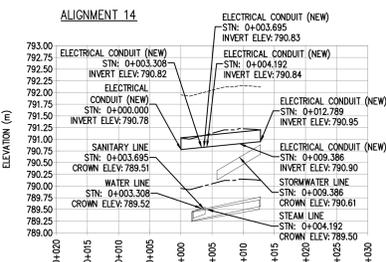
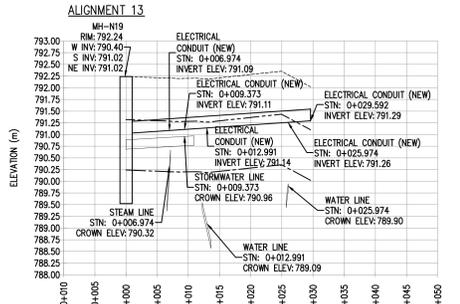
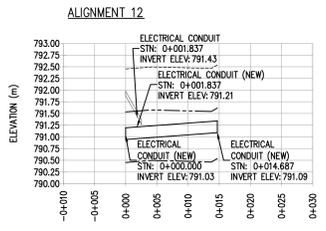
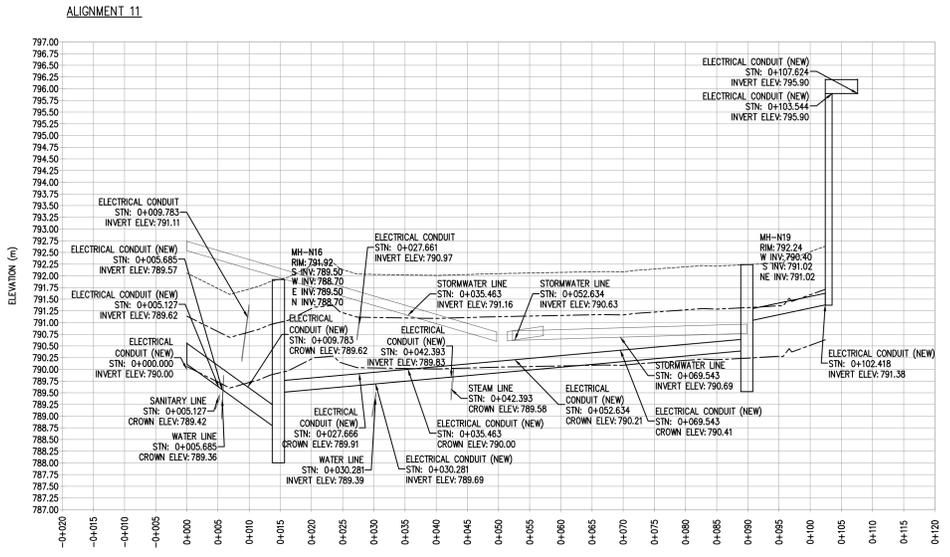
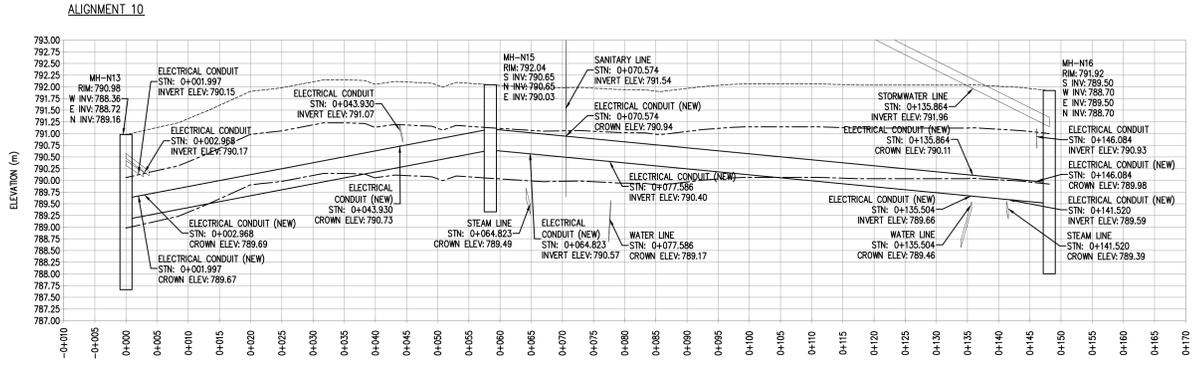
NO.	DESCRIPTION	DATE
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT REPLACEMENT/EXPANSION

Author: [Name]
Checked: [Name]
Reviewed: [Name]
Approved: [Name]

ALIGNMENT PROFILES



ITEM	SYMBOL	REMARKS
PROFILE - EXISTING GRADE	(Symbol)	
PROFILE - 0.2m OFFSET FROM EXISTING GRADE	(Symbol)	
PROFILE - 2.0m OFFSET FROM EXISTING GRADE	(Symbol)	

GENERAL NOTES:

- ALL EXISTING SANITARY LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
- ALL EXISTING WATER LINES ASSUMED 2.5m GROUND COVER AND MINIMUM OF #200mm UNLESS NOTED ON ASBUILT UTILITY SERVICE RECEIVED.
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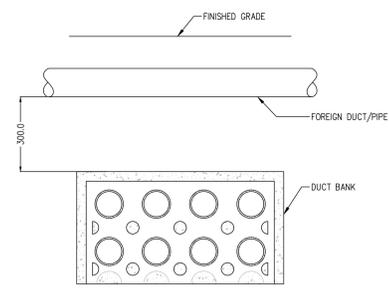
5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
6	ISSUED FOR TENDER	2018/04/17

PUBLIC WORKS & GOVERNMENT SERVICES
900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

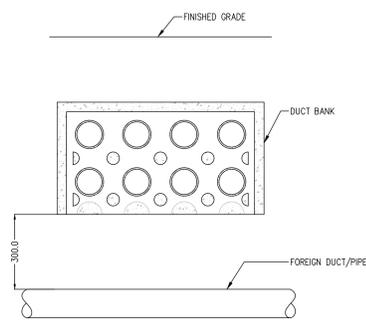
DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT REPLACEMENT/EXPANSION

SN
JMM
KAS

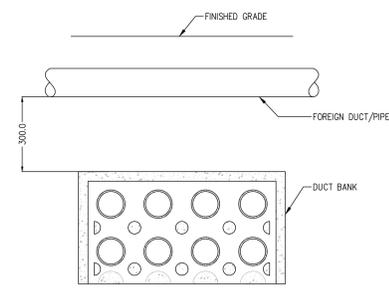
ALIGNMENT PROFILES



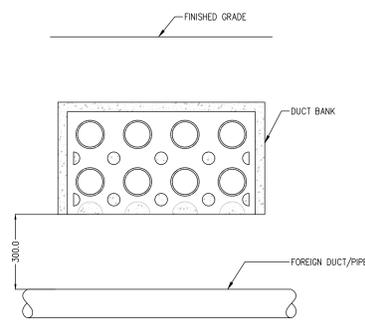
1 SANITARY PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



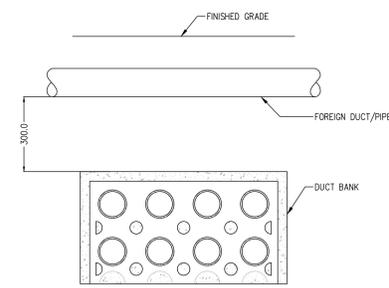
2 SANITARY PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



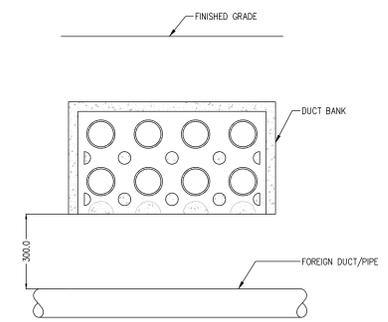
3 STEAM PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



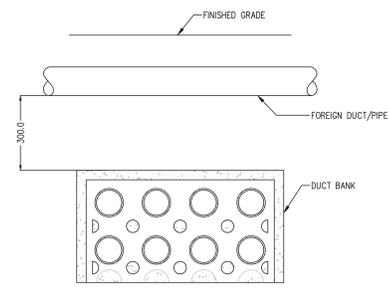
4 STEAM PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



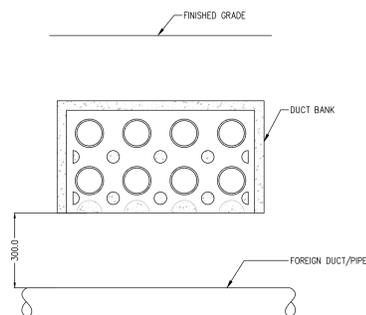
5 WATER PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



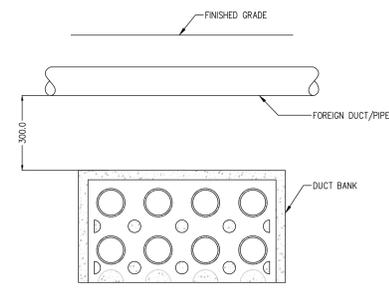
6 WATER PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



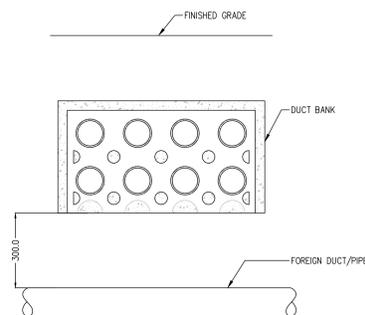
7 GAS PIPE CROSSING
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SHEET REF: E202, E203, E204, E205



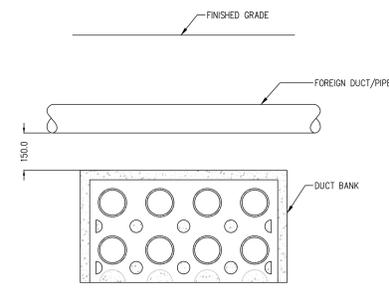
8 GAS PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



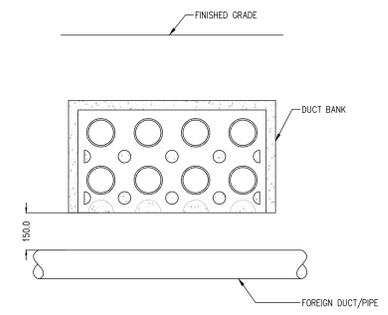
9 STORM PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



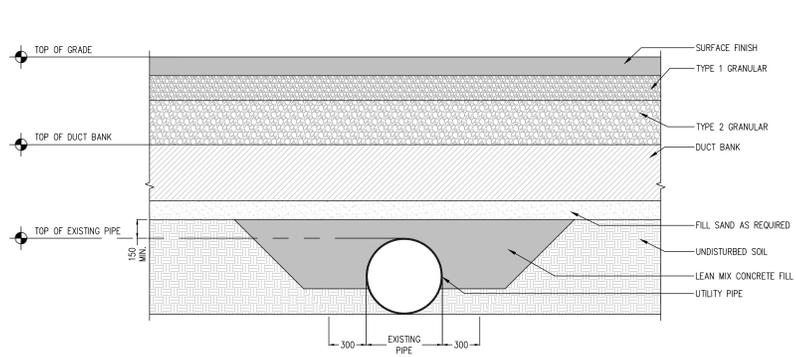
10 STORM PIPE CROSSING
E210
SHEET REF: E202, E203, E204, E205



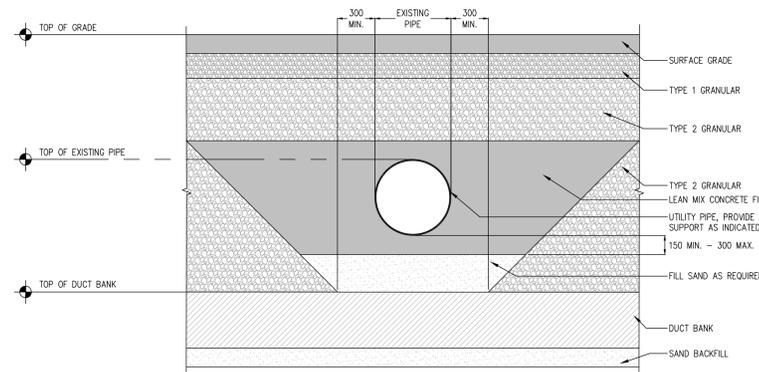
11 ELECTRICAL CONDUIT CROSSING
E210
SHEET REF: E202, E203, E204, E205



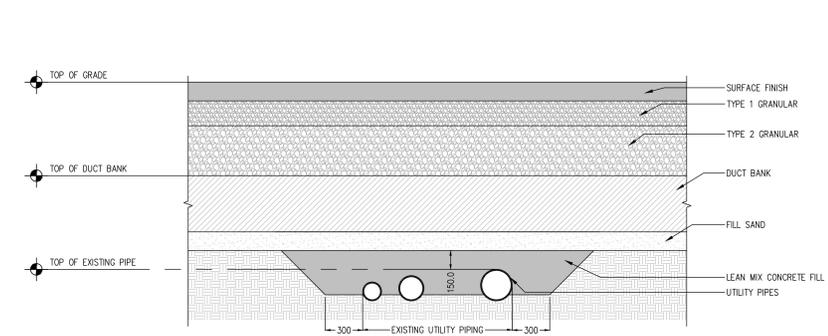
12 ELECTRICAL CONDUIT CROSSING
E210
SHEET REF: E202, E203, E204, E205



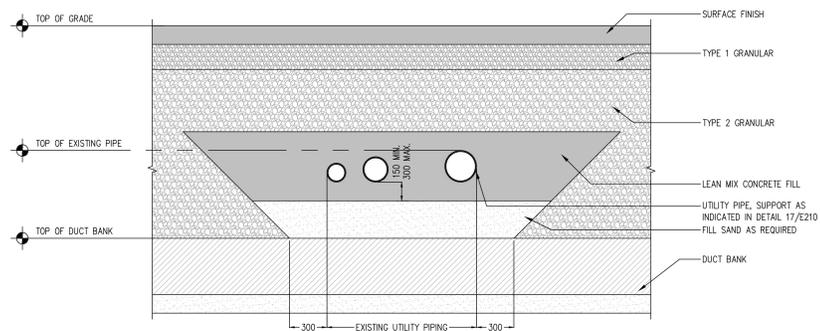
13 DUCT CROSSING WITHIN 150mm ABOVE UTILITY PIPE
E210
SHEET REF: E202, E203, E204, E205



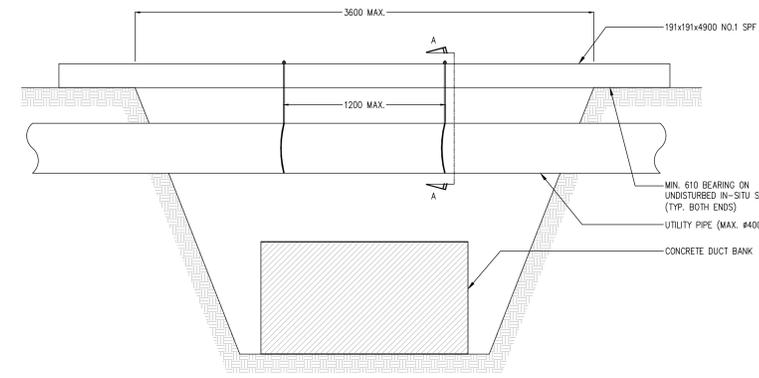
14 DUCT CROSSING BELOW UTILITY PIPE
E210
SHEET REF: E202, E203, E204, E205



15 DUCT CROSSING WITHIN 150mm ABOVE UTILITY PIPES
E210
SHEET REF: E202, E203, E204, E205

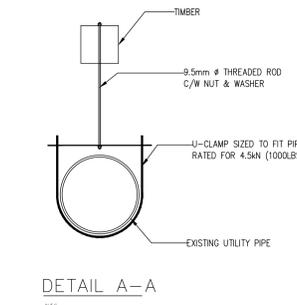


16 DUCT CROSSING WITHIN 150mm BELOW MULTIPLE PIPES
E210
SHEET REF: E202, E203, E204, E205

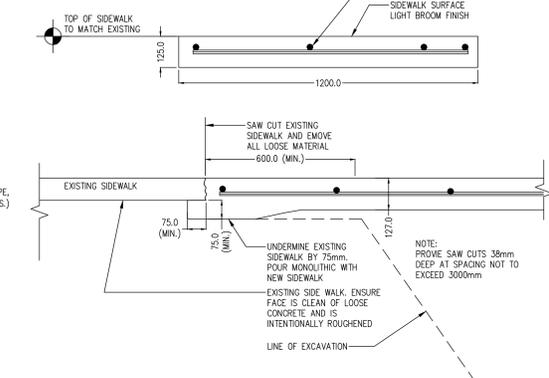


17 TEMPORARY UTILITY PIPE SUPPORT FOR DUCT BANK PASSING BELOW UTILITY PIPE
E210
SHEET REF: E202, E203, E204, E205

- NOTES:
- EXPOSE PIPE TO INVERT ELEVATION
 - INSTALL U-CLAMP & TIMBER
 - TENSION ROD TO SUPPORT PIPE
 - EXCAVATE BELOW PIPE
 - TEMPORARY SUPPORT TO REMAIN IN PLACE THROUGHOUT WORK
 - BACKFILL UTILITY PIPE WITH LEAN MIX CONCRETE AS PER DETAIL
 - CUT TENSION ROD AT TOP OF LEAN MIX CONCRETE



DETAIL A-A



18 SIDEWALK REPAIR DETAIL
E210
SHEET REF: E202, E203, E204, E205

[Signature]
2018-04-17

5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
2	100% SUBMISSION	2017/08/24
1	90% SUBMISSION	2017/06/26
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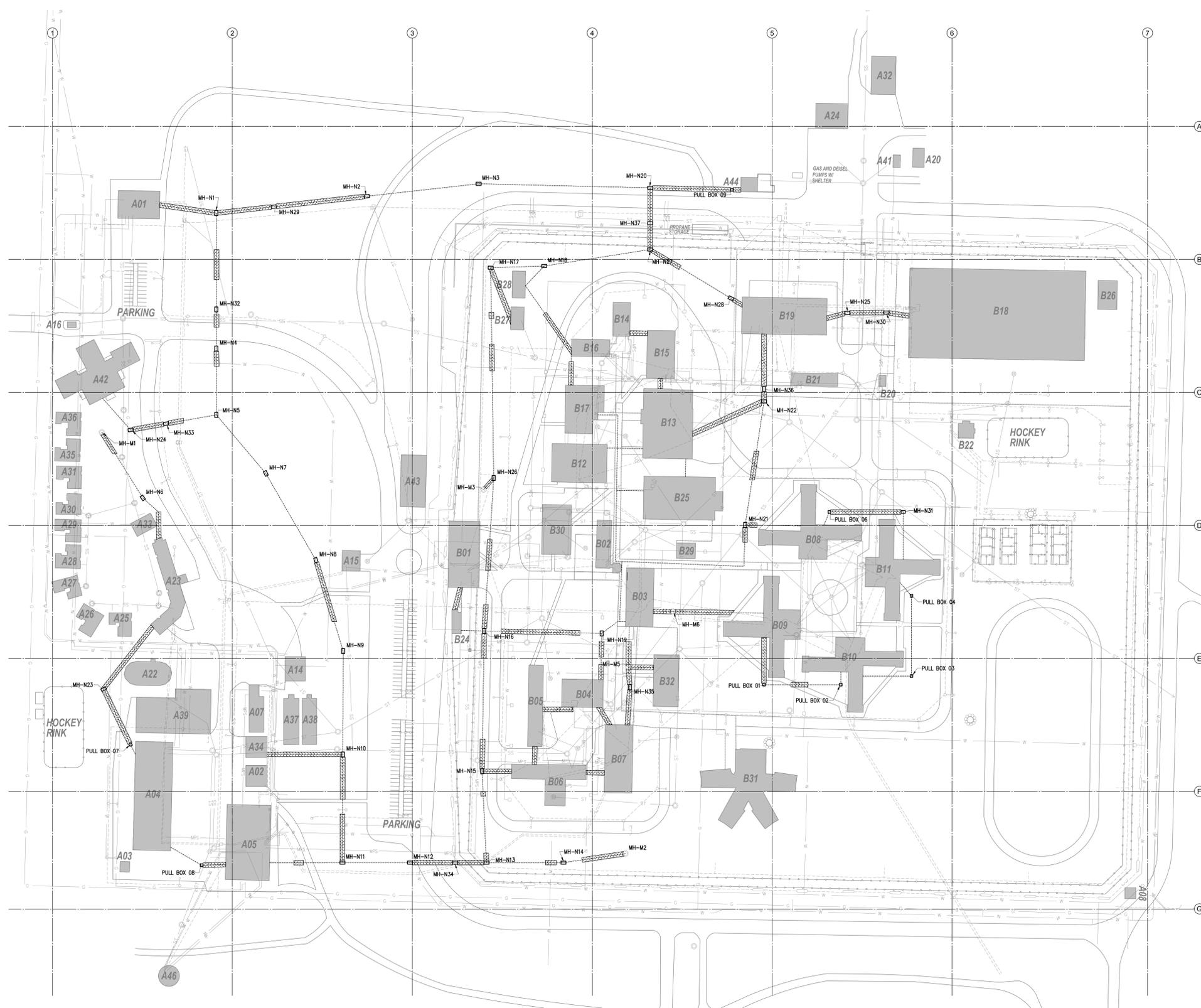
PUBLIC WORKS & GOVERNMENT SERVICES

900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT
REPLACEMENT/EXPANSION

KAS
JMM
KAS

PIPE CROSSING DETAILS



1 DRUMHELLER INSTITUTION - OVERALL SITE
E301 1/8"=1'-0"



5	TENDER RESUBMITTAL 2018	2018/02/08
4	TENDER SUBMISSION	2017/11/06
3	100% RESUBMISSION	2017/10/16
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PUBLIC WORKS & GOVERNMENT SERVICES

900 ROYAL BANK BLDG, 335 8TH AVE SW
CALGARY, AB. T2P 1C9

**DRUMHELLER, AB.
CSC DRUMHELLER INSTITUTION
DRUMHELLER CONDUIT
REPLACEMENT/EXPANSION**

Author: KAS
Checked: JIM
Approved: KAS

**OVERALL SITE
POWER & COMMUNICATION
SYSTEM MANHOLES
& CONDUITS ROUTING HYDROVAC**

ITEM	SYMBOL	REMARKS
EXISTING FENCE	—	
EXISTING WATER LINE	— W —	
EXISTING STEAM LINE	— S —	
EXISTING STORMWATER LINE	— ST —	
EXISTING SANITARY LINE	— SS —	
EXISTING GAS LINE	— G —	
EXISTING ELECTRICAL CONDUIT	— E —	
NEW ELECTRICAL CONDUIT	— E —	
NEW MANHOLE OR PULLBOX	□ □	REFER TO STRUCTURE TABLE ON SHEET E201 FOR STRUCTURE INFORMATION
EXISTING CATCH BASIN OR PIT	□ □	
EXISTING MANHOLE	○	
EXISTING LIGHT STANDARD	⊙	
EXISTING LAMP STANDARD	⊙	
BREEZE-WAY - HATCH	—	CONC. FLOOR FOR VERT. PENETRATIONS. HORIZ. RUNS ARE EXPOSED ABOVE GRADE
AREA OF HYDROVAC REQUIRED - HATCH	▨	

GENERAL NOTES:
1. THIS SHEET IDENTIFIES LOCATIONS WHERE HYDROVAC EXCAVATION IS REQUIRED WITH CERTAINTY. ALL OTHER LOCATIONS FOR DUCTBANK INSTALLATIONS REQUIRE THE CONTRACTOR TO CARRY OUT THE LOCATION AND VERIFICATION OF UNDERGROUND SERVICES PRIOR TO COMMENCING THE WORK AND DETERMINE WHERE OPEN CUT TRENCHING MAY PROCEED AND WHERE HYDROVAC EXCAVATION IS REQUIRED.