

# GOVERNMENT OF CANADA DRILL HALL PARKING LOT

## ELECTRICAL UPGRADES REGINA, SASKATCHEWAN

### ISSUED FOR CONSTRUCTION NOVEMBER 16, 2017

number  
10

#### ARCHITECTURAL

NUMBER TEN ARCHITECTURAL GROUP - 310 - 115 BANNATYNE AVE. - WINNIPEG, MB. R3B 0R3

A1.0 TITLE SHEET

A1.1 SITE PLANS AND DETAILS

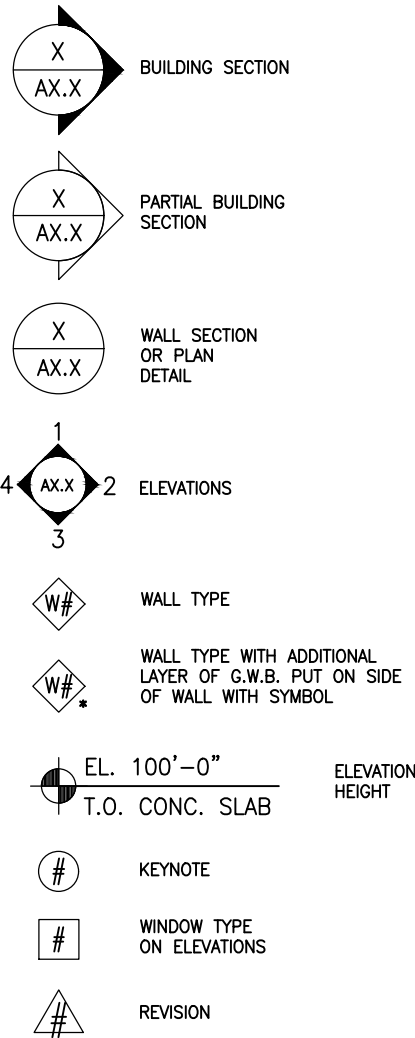
#### ELECTRICAL

RITENBURG + ASSOCIATES ENGINEERING CONSULTANTS - 2222 ALBERT STREET - REGINA, SK, S4P 2V2

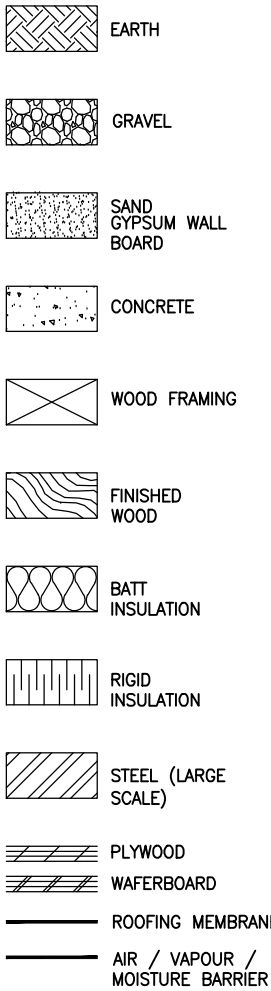
E1 ELECTRICAL SITE PLAN

E2 PARTIAL SINGLE LINE PANEL SCHEMATICS ELECTRICAL DETAILS

#### SYMBOLS AND ABBREVIATIONS

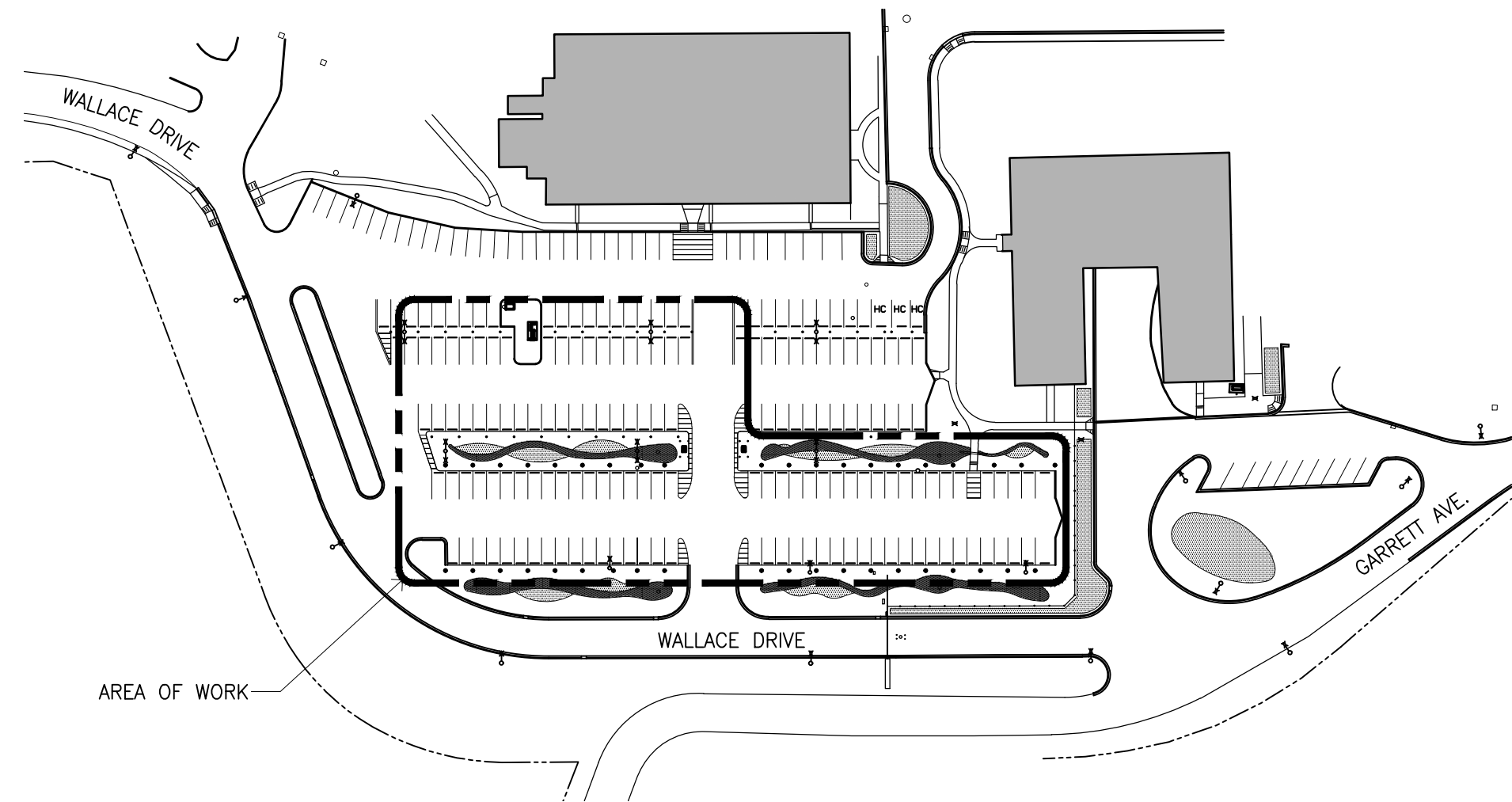


#### MATERIAL SYMBOLS LEGEND

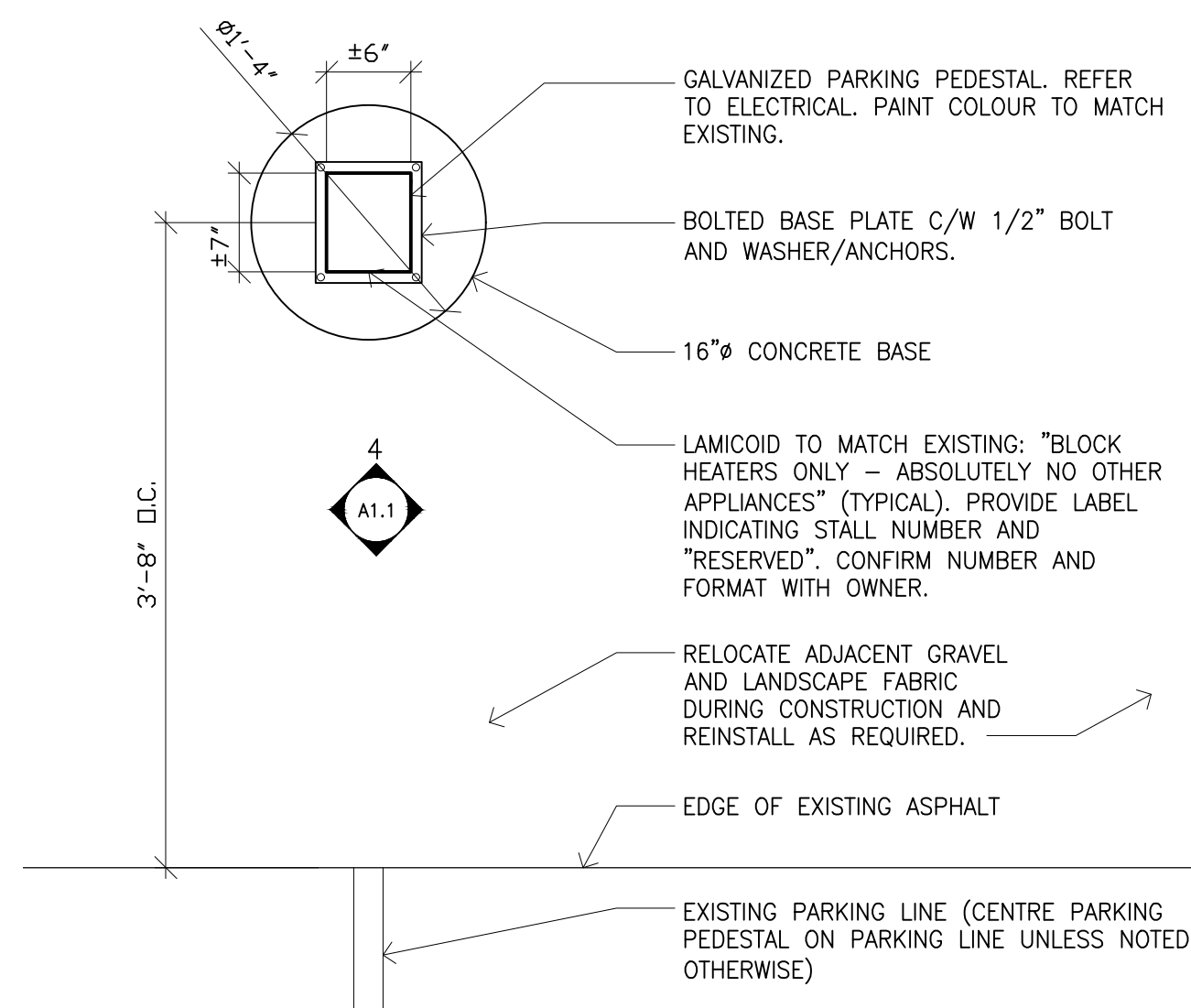


#### ABBREVIATION LEGEND

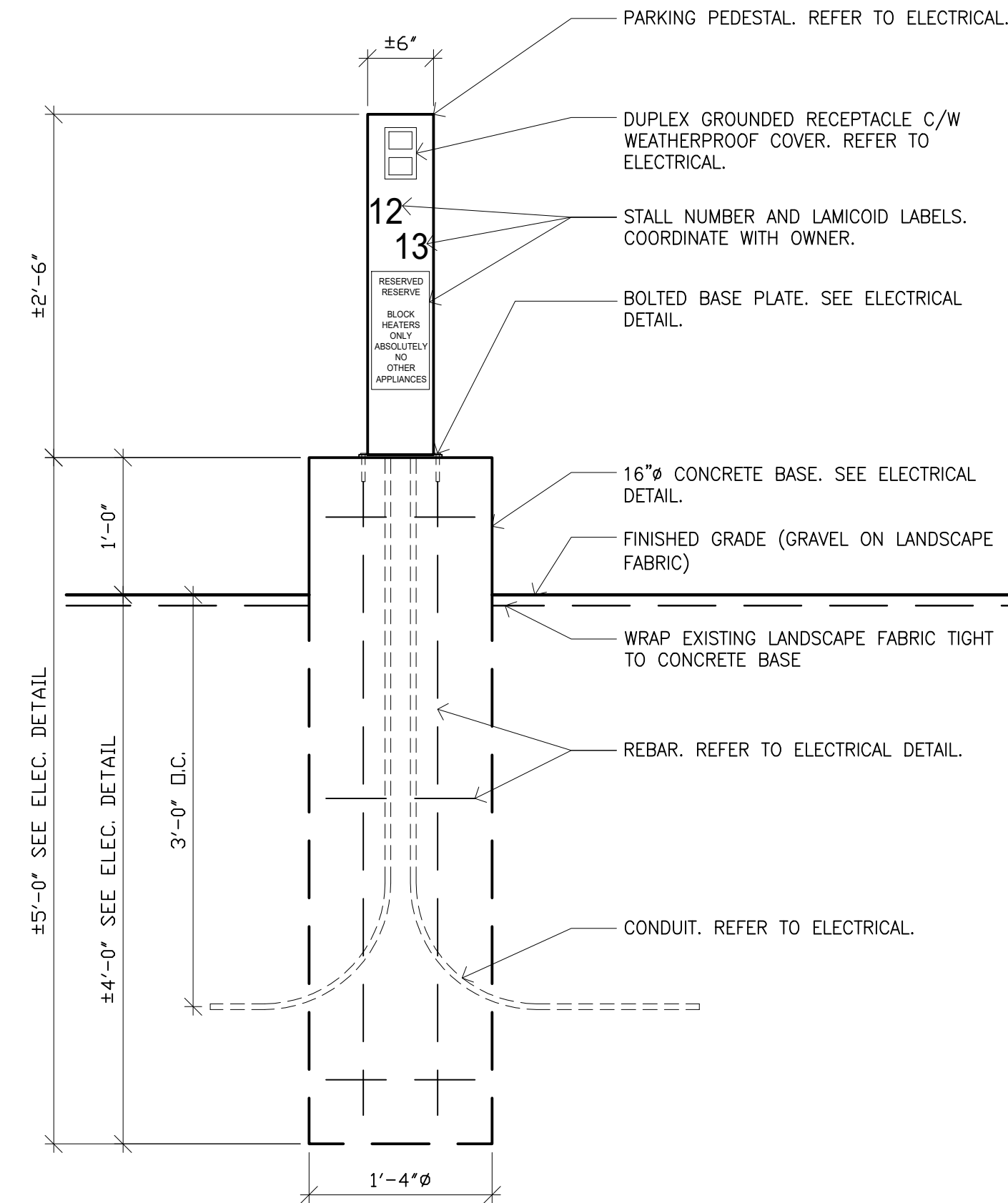
A/V	AR / VAPOUR	EPB	ENVIRONMENTAL PARTICLE BOARD	MAX	MAXIMUM	SLR	SEALER
ACT	ACOUSTIC CEILING TILE	EX	EXISTING	MDO	MEDIUM DENSITY OVERLAY	SS	STAINLESS STEEL
AF	ADJUSTABLE	EXPS	EXPOSED STRUCTURE	MIN	MAGNETIC HOLD OPEN	STL	STEEL
AP	ACOUSTIC PLASTER	F or FLR	FLOORING	N	NATURAL	STRUC	STRUCTURAL
ADJ	ADJUSTABLE	FHC	FIRE HOSE CABINET	N	NOT IN CONTRACT	SB	SAND BLASTED
AL	ALUMINUM	FR	FIRE RATED	NC	NOT TO SCALE	SC	SCORED CONCRETE BLOCK
AP	ACOUSTIC PANEL	FRP	FIBREGLAS REINFORCED PANEL	NTS	NOT TO SCALE	SFP	SAFETY FLOOR
APL	ACOUSTIC PANEL	FD	FLOOR DRAIN	N/A	NOT APPLICABLE	SFD	SPRAYED FIREPROOFING
B	BASE	FIN	FINISH	NS	NON-SLIP	ST	STAIN
BF	BROOM FINISH	PROB	FIRE RATED GYPSUM BOARD	OC	ON CENTRE	STOR	STORAGE
BL	BORROWED LIGHT	CIS	GOOD ONE SIDE	CHD	OVERHEAD DOOR	SV	SHEET VINYL
BT	BOTTOM	C2S	GOOD TWO SIDES	OF	OIL FINISH	SV	SHEET VINYL
BD	BUSH HAMMERED	GI	GALVANIZED IRON	PT	PAINT	T/O	TOP OF
BH	BUSH HAMMERED	GR	GRANITE	PB	PAVING BRICK	TB	TACKBOARD
BLDG	BUILDING	OB	GYPSSUMBOARD	PCT	PORCELAIN TILE	TEX	TEXTURED
BR	BRICK	OL	GLASS / GLAZING	PH	PREFINISHED HARDBOARD	TL	TRANSOM LIGHT
C	COMPLETE WITH	OYP	GYPSSUM	PL	PLASTER	TYP	TYPICAL
CB	CHALKBOARD	H	HOLLOW	PLY	PLYWOOD	T	TERRAZZO BLOCK
CBR	CONCRETE BRICK	HDR	HARDENER	POLY	POLYETHYLENE	TBL	TEMPERED BLOCK
CLR	CLEAR	HM	HOLLOW METAL	PS	PRESSED STEEL	TGL	TEMPERED GLASS
CL	CONTINUOUS	HP	HIGH POINT	PC	PRECAST CONCRETE	TRO	TRANSLUCENT ROOF DECK
CPL	CEMENT PLASTER	HT	HERMETICALLY SEALED DOUBLE GLASS	PART	PARTITION	TGL	TEMPERED GLASS
CT	CERAMIC TILE	HT	HEIGHT	PF	PREFINISHED	U/S	UNDERSIDE
C	C or CONC	HC	HOLLOW CORE	PO	PLATE GLASS	ULC	UNDERWRITERS LABORATORIES CANADA
CB	CONCRETE	HW	HARDWARE	PLAM	PLASTIC LAMINATE	UC	UNDERCUT
CLG	CONCRETE BLOCK	HKR	HORIZONTAL	PM	PREFINISHED METAL	UNO	UNLESS NOTED OTHERWISE
COL	COLUMN	HSC	HIGH BUILD EPOXY COAT	QT	QUARRY TILE	V	VARES
CORR	CORRIDOR	HSEC	HERMETICALLY SEALED TRIPLE GLASS	R	RISER	VCB	VENT COVE BASE
CPT	CARPET	INS/INSUL	INSULATION	RCB	RUBBER COVE BASE	VERT	VERTICAL
DET	DETAIL	INT	INTERIOR	RD	RUBBER STAR TREAD	VGB	VINYL GYPSUMBOARD
DG	DOOR GRILLE	LAM	LAMINATED	RST	RUBBER STAR TREAD	VWC	VINYL WALLCOVERING
DF	DOOR	UN	UNGLUED	RF	RUBBER	VGB	VAPOUR BARRIER
DN	DOWN	LOL	LAMINATED GLASS	R	RUBBER	VET	VINYL COMPOSITE TILE
DWG	DRAWING	LP	LOW POINT	RFB	REINFORCED GYPSUMBOARD	VEST	VESTIBULE
EP	EPOXY FLOOR	M or MTL	METAL	S	SOLID	VT	VITREOUS TILE
ELEC	ELECTRICAL	MDP	MEDIUM DENSITY FIBREBOARD	SC	SOLID CORE	W	WALL
EQ	EQUAL	MECH	MECHANICAL	SCB	SELF COVE BASE	WG	WIRE GLASS
EXP	EXPOSED	MR	MIRROR	SHT	SHEET FLOORING	W/	WITH
EXT	EXTERIOR					WDP	WOOD PANELING
EL	ELEVATION					W/O	WITHOUT
EP	EPOXY PAINT						



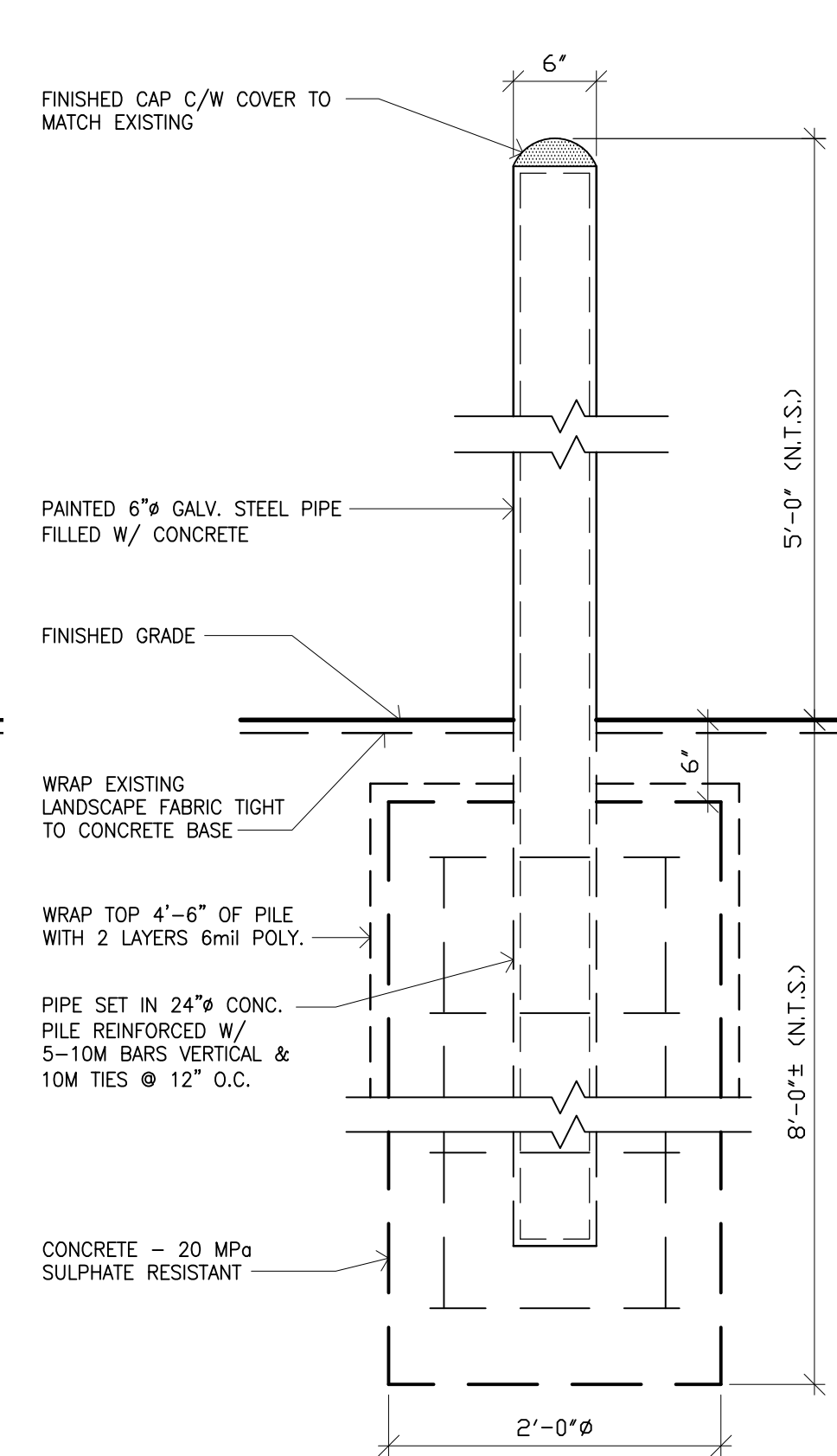
1 KEY PLAN  
A1.1 SCALE: 1" = 100'-0"



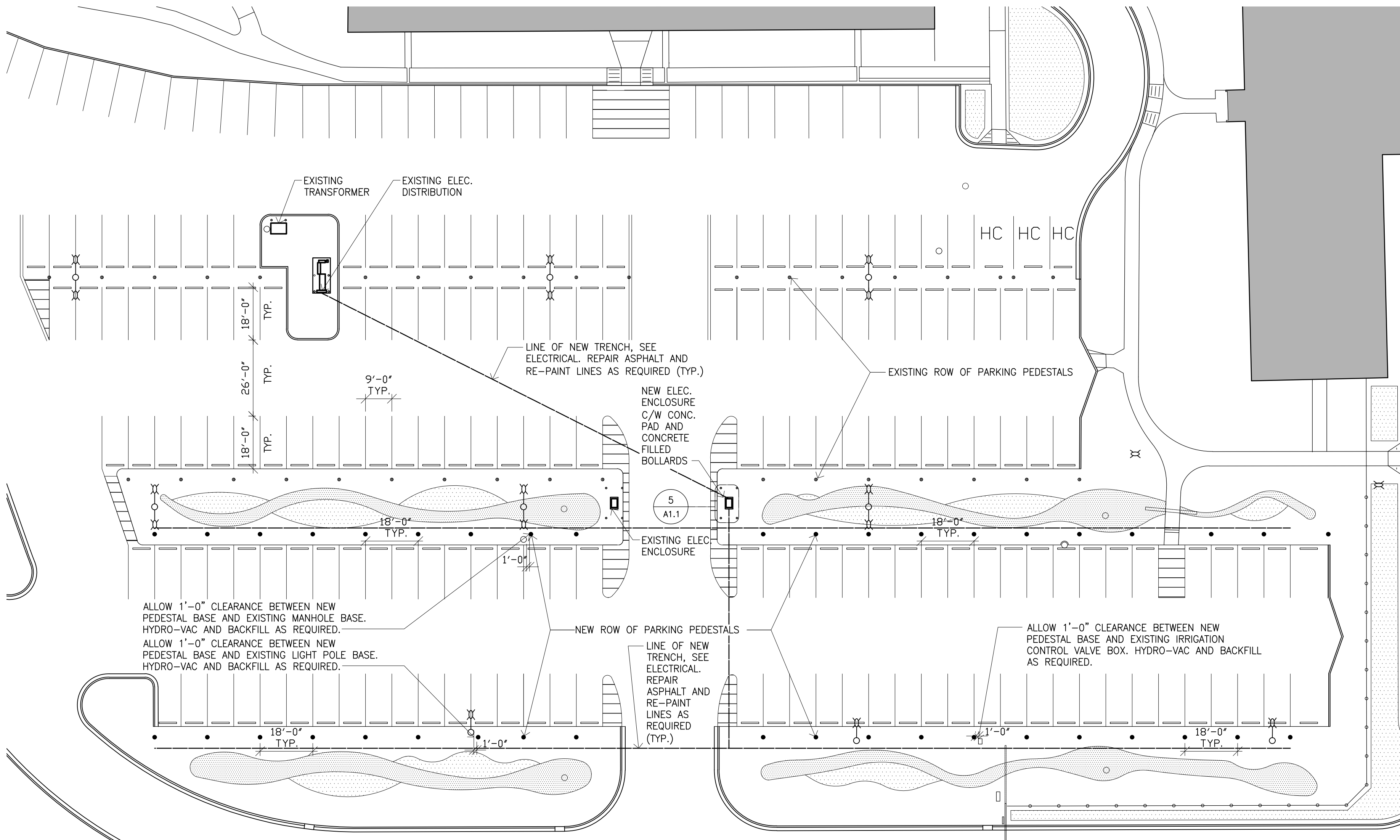
3 TYPICAL PEDISTAL PLAN DETAIL  
A1.1 SCALE: 1" = 1'-0"



4 TYPICAL PEDESTAL ELEVATION DETAIL  
A1.1 SCALE: 1" = 1'-0"



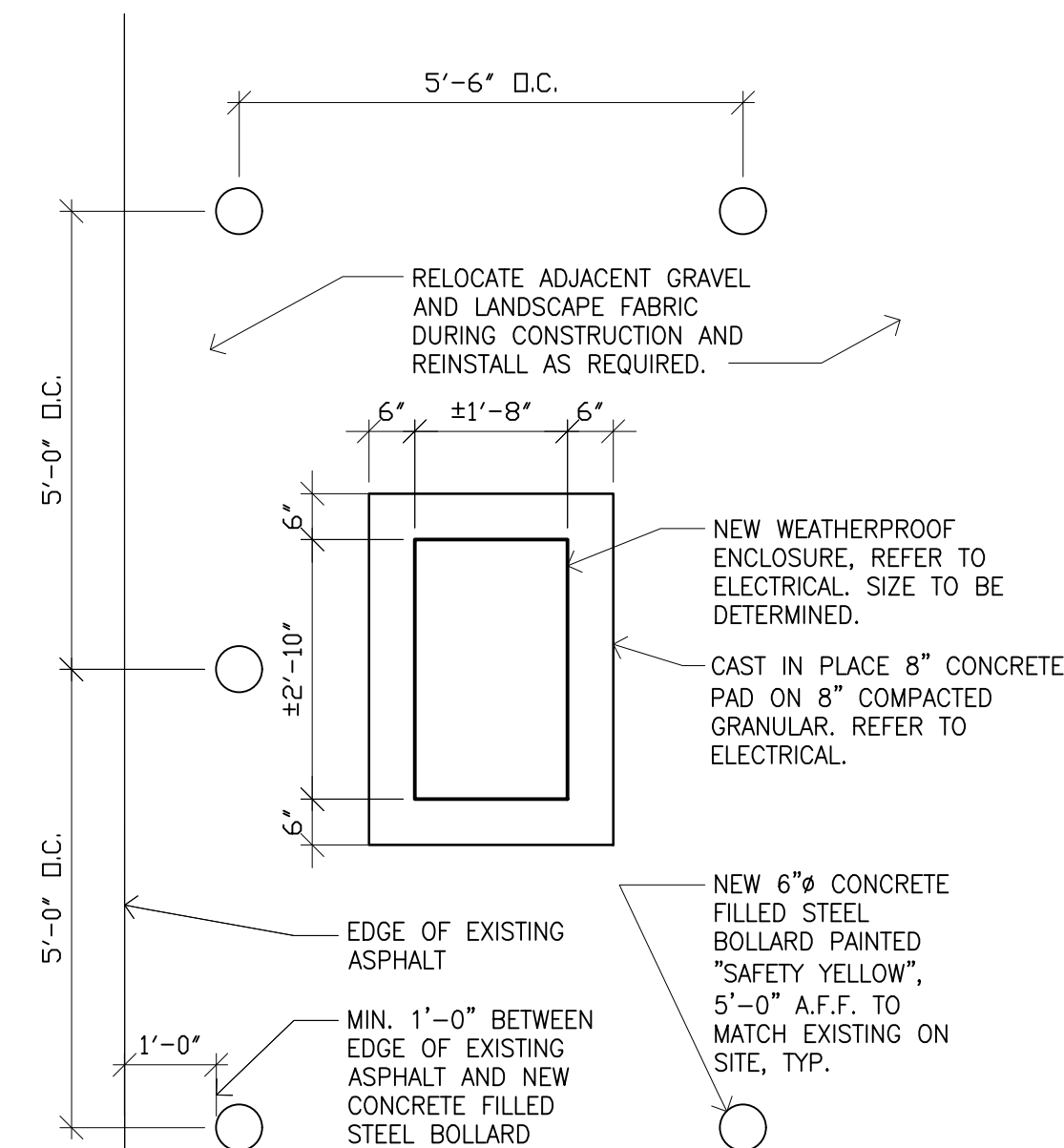
7 TYPICAL BOLLARD DETAIL  
A1.1 SCALE: 1" = 1'-0"



2 SITE PLAN  
A1.1 SCALE: 1" = 25'-0"

#### GENERAL NOTES:

- PATCH AND MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION TO MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE.
- WRAP LANDSCAPE FABRIC TIGHT TO LANDSCAPE PENETRATIONS
- COORDINATE ALL DEMOLITION AND NEW CONSTRUCTION WITH ELECTRICAL.
- CONTRACTOR RESPONSIBLE TO IDENTIFY EXISTING UNDERGROUND CABLES AND UTILITIES THAT MAY CONFLICT WITH NEW WORK. REFER TO OWNER SUPPLIED INFORMATION FOR APPROXIMATE LOCATIONS OF UNDERGROUND SERVICES.
- REMOVE AND REPLACE CONCRETE CURB AND ASPHALT AND RESTORE LANDSCAPING WHERE ELECTRICAL TRENCHING IS REQUIRED, SHOWN AS THIS:
  - NEW CONCRETE AND NEW ASPHALT TO MATCH EXISTING.
  - PUSH/TUNNEL UNDER EXISTING CONCRETE CURBS WHERE POSSIBLE.
  - LIGHT DUTY ASPHALT STRUCTURE:
    - 50mm AC
    - 150mm BASE
    - 150mm SUBBASE
    - NON-WOVEN GEOTEXTILE
- REPAINT PARKING LINES AFFECTED BY TRENCHING TO MATCH EXISTING.



5 PAD MOUNTED ENCLOSURE DETAIL  
A1.1 SCALE: 1/2" = 1'-0"

THIS DRAWING MUST NOT BE SCALED.

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO NUMBER TEN ARCHITECTURAL GROUP BEFORE PROCEEDING.

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REVISED/ ISSUED/ PLOTTED	DATE
ISSUED FOR CONSTRUCTION	NOV.16/17
ISSUED FOR 80% REVIEW	OCT.26/17

**numberTEN** architectural group

Winnipeg Office 204.942.0981  
Victoria Office 250.360.2106

**number 10**

architecture • interior design • planning

GOVERNMENT OF CANADA  
DRILL HALL PARKING LOT  
ELECTRICAL UPGRADES

project  
SITE PLANS + DETAILS

sheet title

consultant

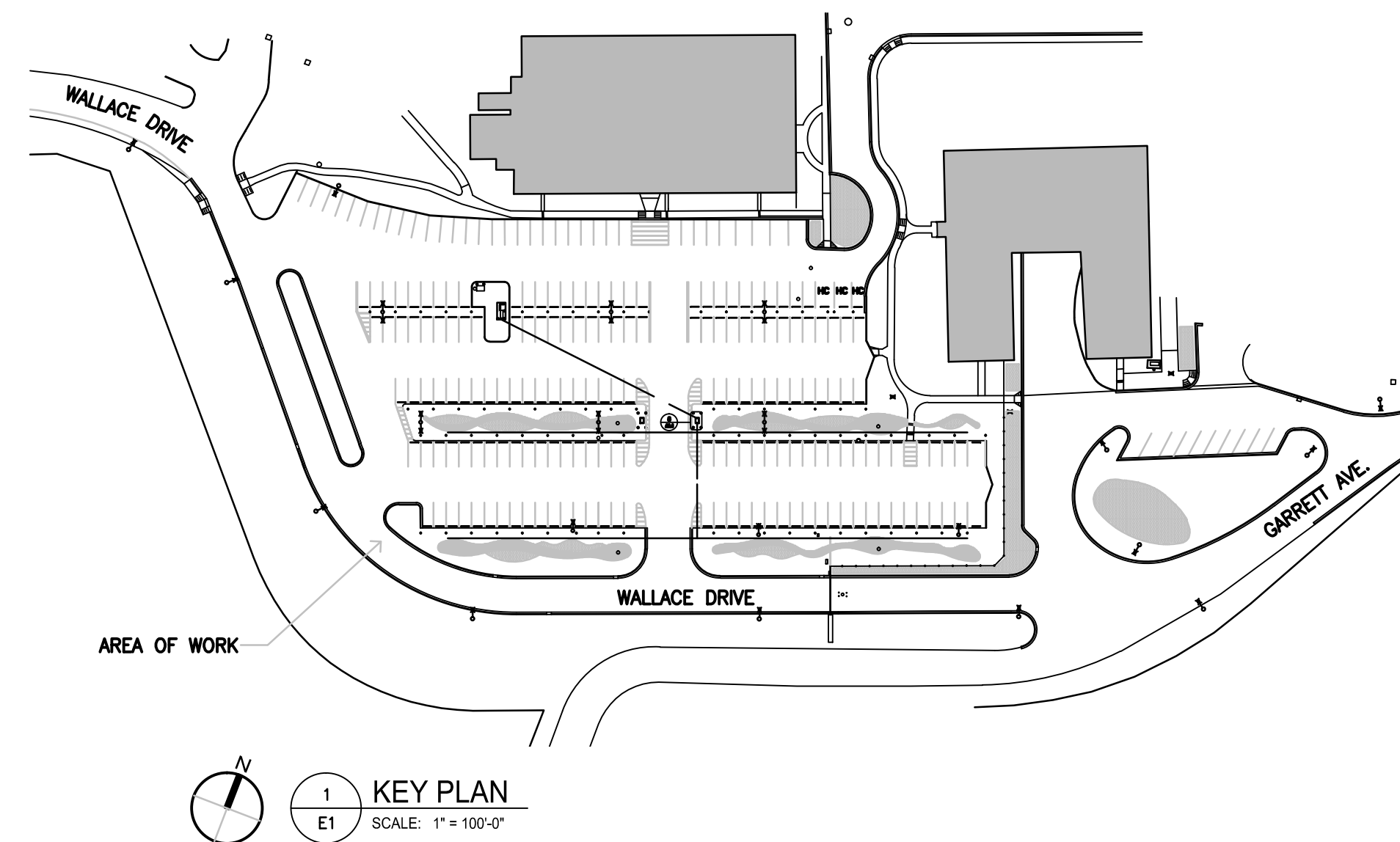
Barrie Ottenbrait  
SAA # 823 Winnipeg MB





scale: as shown  
date: NOVEMBER 16, 2017

drawn by: DR  
checked by: BO  
project no. 2017071

sheet no. **A1.1**





-  PARKING PEDESTAL C/W WITH DUPLEX GFCI RECEPTACLE. CONCRETE BASE SHALL BE LOCATED SUCH THAT CENTER OF CONCRETE PILE IS 44" FROM FRONT EDGE OF CURB. REFER TO PARKING PEDESTAL AND BASE DETAIL FOR FURTHER REQUIREMENTS.
-  EXISTING CAR PARKING PEDESTAL TO REMAIN.
-  EXISTING DOUBLE SIDED CAR PARKING PEDESTAL TO REMAIN.
-  EXISTING POLE MOUNTED SITE LIGHT TO REMAIN.
- - - - - PROPOSED TRENCH LINE. REFER TO TRENCH DETAIL FOR TRENCHING REQUIREMENTS. SEE ARCHITECTURAL FOR PATCHING AND REPAIR.

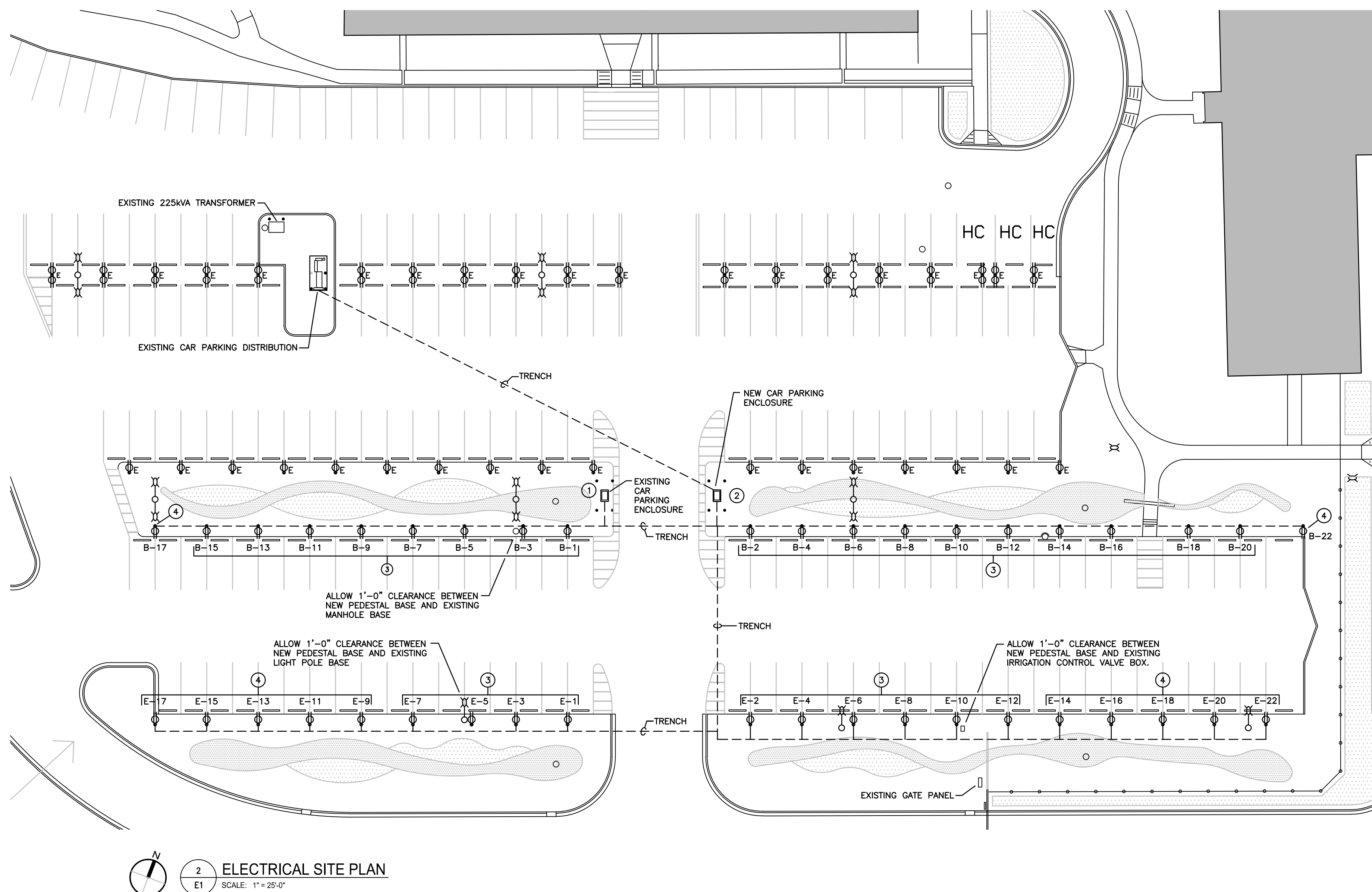
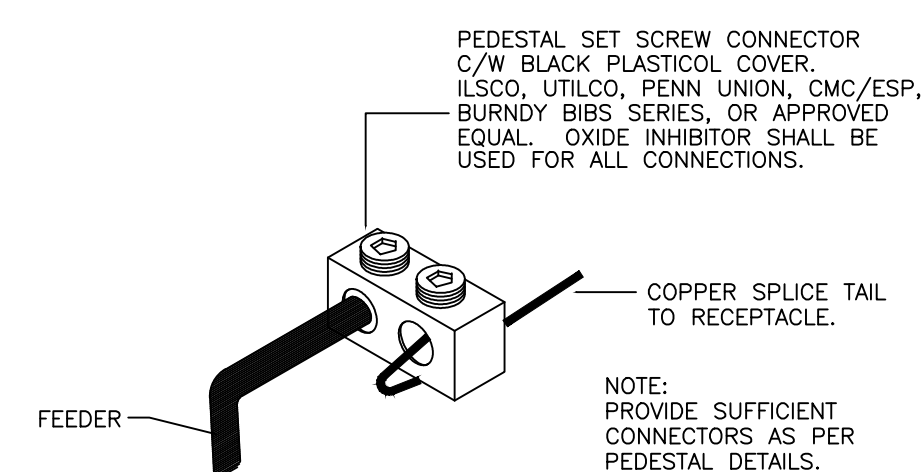
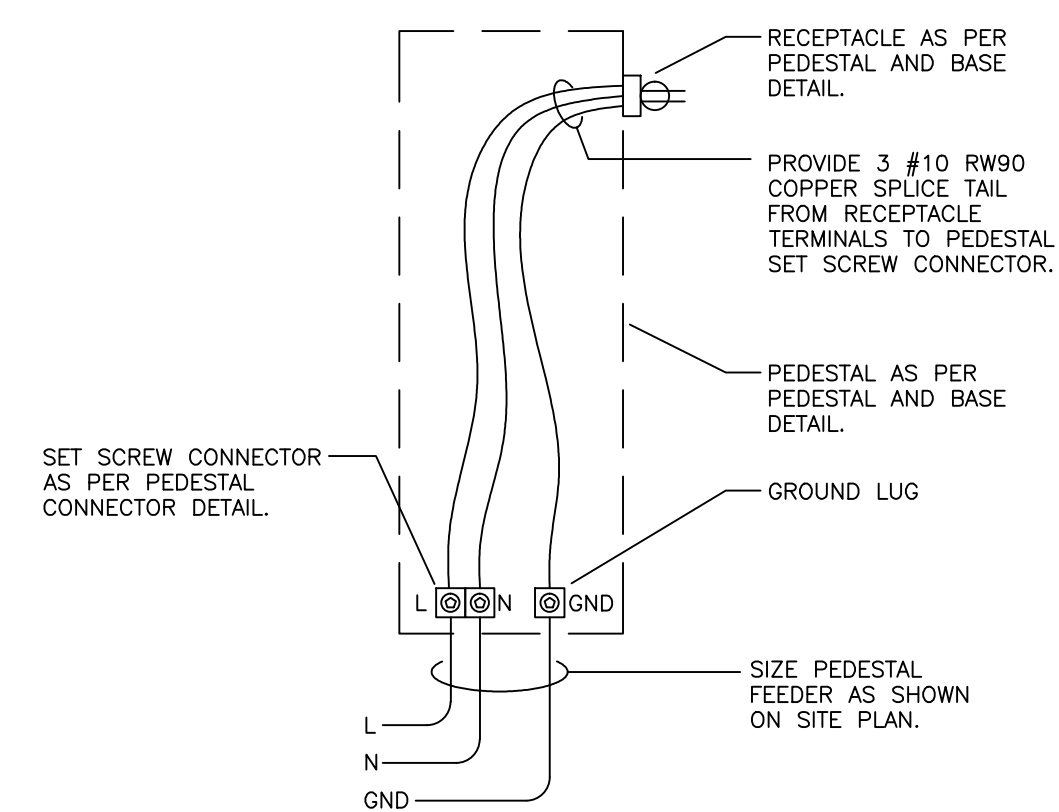
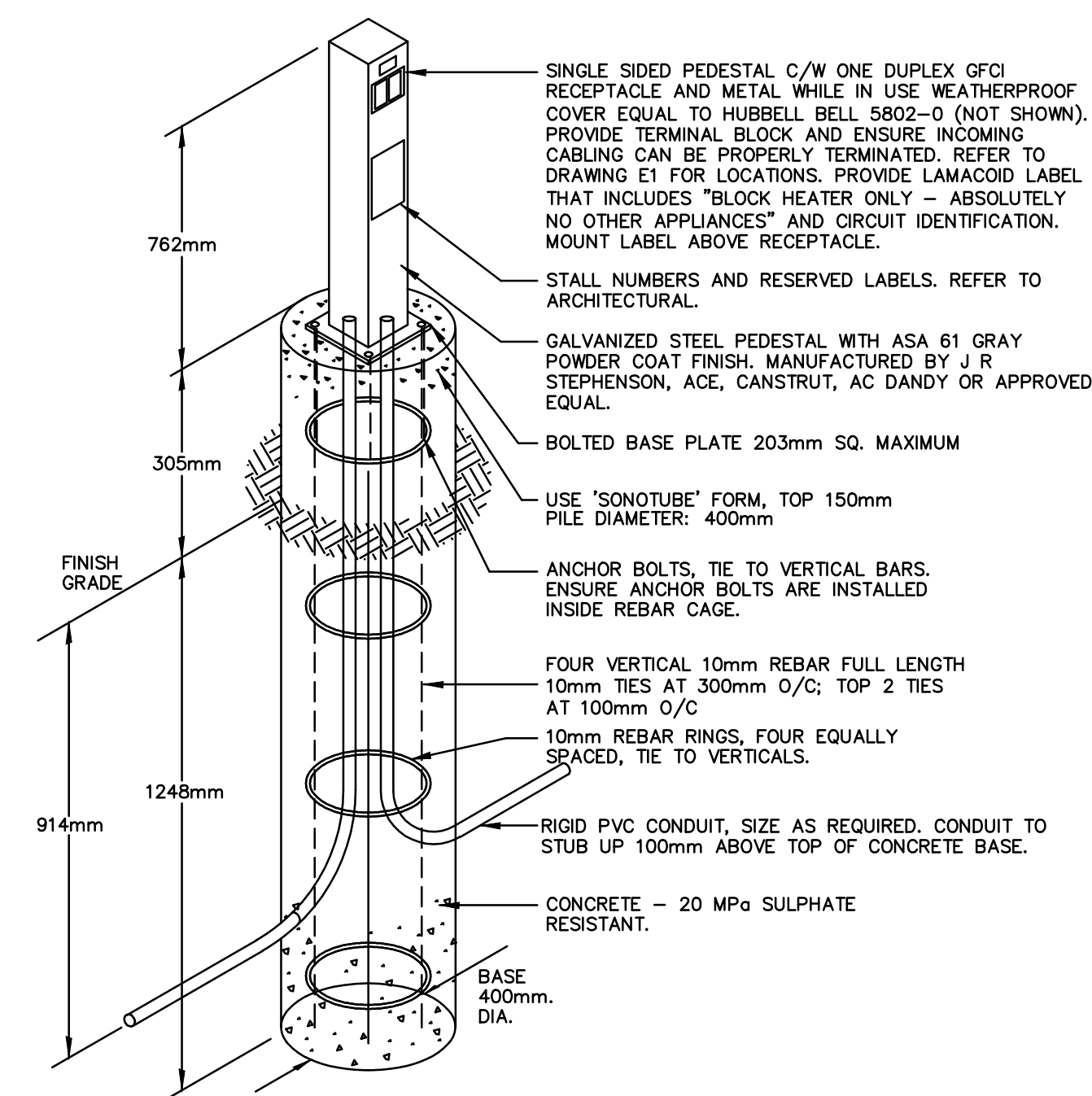
THESE DRAWINGS DEPICT UNDERGROUND CABLE  
INSTALLATION BY MEANS OF TRENCHING. REFER  
TO FRONT END DOCUMENTS FOR REQUIREMENT  
TO PROVIDE SEPARATE PRICE OPTION FOR  
INSTALLATION OF UNDERGROUND CABLES BY  
MEANS OF BOTH TRENCHING OR THE USE OF  
DIRECTIONAL BORING.

GENERAL NOTES

1. CONTRACTOR RESPONSIBLE TO IDENTIFY EXISTING UNDERGROUND CABLES AND UTILITIES THAT MAY CONFLICT INSTALLATION. FOR APPROXIMATE LOCATIONS OF UNDERGROUND SERVICES REFER TO OWNER SUPPLIED DRAWINGS: 8-4, 10-4, 14-4, AND 15-4 (PROJECT NO. R.069578.001).
2. CABLES SIZES INDICATED ON DRAWINGS ARE MINIMUM SIZES. CONTRACTOR TO CONFIRM ACTUAL CABLE LENGTHS ON SITE AND CONFIRM VOLTAGE DROP WITH CONSULTANT.

## KEYNOTES

- ① EXISTING ENCLOSURE FOR PANEL C, PANEL D, AND PARKING LOT CONTROLLER.
- ② NEW PAD MOUNTED WEATHERPROOF ENCLOSURE FOR NEW PANEL B, NEW PANEL E, AND NEW CAR PARKING CONTROLLER. REFER TO PAD MOUNTED ENCLOSURE DETAIL.
- ③ PROVIDE #8AWG 2C TCK900 + #10AWG INTEGRAL BOND TO EACH PEDESTAL 915mm BELOW GRADE. CIRCUIT NUMBERS AS SHOWN.
- ④ PROVIDE #8AWG 2C TCK900 + #8AWG INTEGRAL BOND TO EACH PEDESTAL 915mm BELOW GRADE. CIRCUIT NUMBERS AS SHOWN.



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ASSOCIATION OF PROFESSIONAL ENGINEERS  
OF SASKATCHEWAN  
CERTIFICATE OF AUTHORIZATION  
RITENBURG & ASSOCIATES LTD.

NUMBER 52

PERMISSION TO CONSULT HELD BY:

DISCIPLINE	SASK. REG. No.	SIGNATURE
ELECTRICAL	9273	

number TEN  
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**Victoria Office**  
**250.360.2106**

architecture ■ interior design ■ planning

GOVERNMENT OF CANADA  
DRILL HALL PARKING LOT  
ELECTRICAL UPGRADES

project

ELECTRICAL SITE PLAN

sheet title

consultant

seal

drawn by: KMS

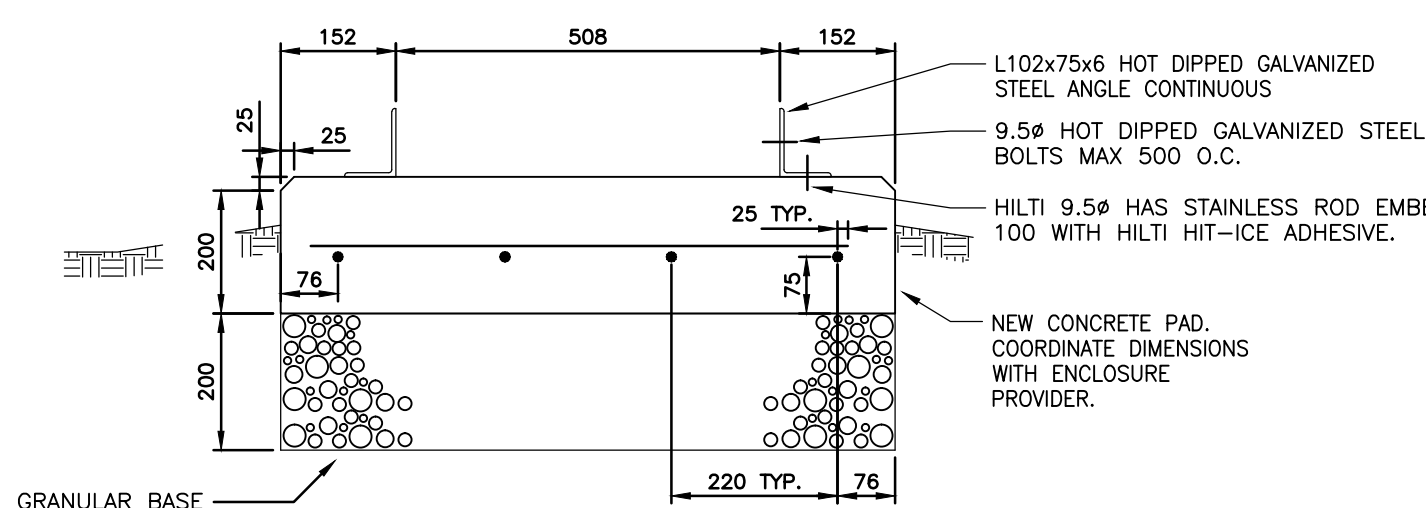
checked by: KAD

project no. 2017071

**scale:** as shown

date: NOVEMBER 16, 2017

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GRANULAR BASE:  
TYPE 33 CRUSHED BASE, COMPACTED TO 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT

3 PAD MOUNTED ENCLOSURE DETAIL  
E2 SCALE: N.T.S.



4 TRENCH DETAIL  
E2 SCALE: N.T.S.

EXISTING  
225kVA XFMR

25kV

(PAD MT'D)



AC DANDY CARTROL TYPE 5  
VALID MANUFACTURING D SERIES  
EATON POW-R-COMMAND PLP-25  
DOUGLAS LIGHTING CONTROL WTT-4944  
OR EQUAL SYSTEM APPROVED BY SASKPOWER PARKING  
LOT CONTROLLER PROGRAM AND CONSULTANT.

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sheet no. E2

sheet no. E2