# DRUMHELLER DOWNTOWN PLAZA

**ISSUED FOR: TENDER** 

FEBRUARY 15th, 2022

#### **PROJECT TEAM:**

LANDSCAPE ARCHITECTURE AND PRIME CONSULTANT:

O2 PLANNING + DESIGN INC.

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DRUMHELLER
DOWNTOWN PLAZA

MUNICIPALITY OF DRUMHELLER

CONSULTANTS

PEngineering Ltd.



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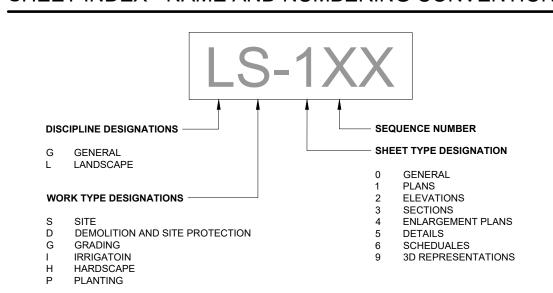
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ISSUED FOR: TENDER

DRAWING TITLE :

G-000

#### SHEET INDEX - NAME AND NUMBERING CONVENTION



### DEMOLITION LEGEND

|   | SYMBOL | 1 GENERAL CONDITIONS DESCRIPTION   | QTY        |
|---|--------|--|------------|
| +++++++++++++++++++++++++++++++++++++++ | 1-01   | CONSTRUCTION LAYDOWN AREA.   | 255.4 m²   |
|   | SYMBOL | 2 SELECTIVE DEMOLITION & RELOCATIONS DESCRIPTION   | QTY        |
|   | 2-01   | REMOVE EXISTING SURFACE AND/OR EXCAVATE TO 600MM ± DEPTH   | 117.9 m²   |
|   | 2-02   | REMOVE EXISTING CONCRETE CURB - PLANTER  | 26.7 m     |
|   | 2-03   | REMOVE EXISTING CONCRETE CURB AND GUTTER - ROAD  | 35.8 m     |
|   | 2-05   | REMOVE EXISTING CONCRETE PAVING TO 480MM ± DEPTH FOR HEAVY DUTY CONCRETE PAVING                      | 26.0 m²    |
|   | 2-06   | REMOVE EXISTING ASPHALT PAVING TO 380MM $\pm$ DEPTH REQUIRED FOR PEDESTRIAN PAVERS. REFER TO LM-100. | 278.9 m²   |
|   | 2-09   | REMOVE EXISTING PLANTING AND PLANTING SOIL TO 450MM± DEPTH FOR PEDESTRIAN PAVERS. REFER TO LM-100    | 18.4 m²    |
| $\bigotimes$                            | 2-11   | EXISTING SHRUB TO BE REMOVED   | 12         |
|   | 2-15   | REMOVE EXISTING ASPHALT PAVING TO 300MM ± DEPTH REQUIRED FOR CONCRETE PLANTER EDGE. REFER TO LM-100. | 11.4 m²    |
|   | SYMBOL | 8 ELECTRICAL DESCRIPTION   | <u>QTY</u> |
| •                                       | 8-05   | EXISTING LAMP TO BE REMOVED BY ATCO. CONTRACTOR TO COORDINATE TIMING.                                | 1          |

#### MATERIALS LEGEND

|          | SYMBOL | 3 SOFTSCAPE<br>DESCRIPTION   | QTY                 |
|----------|--------|--|---------------------|
|          | 3-01   | PLANTING SOIL TYPE 1 - 975MM DEPTH<br>- 75MM BARK MULCH<br>- 900MM TOPSOIL   | 69.63 n             |
|          | 3-02   | PLANTING SOIL TYPE 2 - 375MM DEPTH - 75MM BARK MULCH - 300MM TOPSOIL @ ROOTBALL - SOIL AMENDMENTS (REFER TO SPECS) | 15.9 m²             |
| J        | 3-03   | BARK MULCH TOPUP IN EXISTING PLANTER<br>- 75MM BARK MULCH  | 87.5 m²             |
|          | SYMBOL | 4 HARDSCAPE<br>DESCRIPTION   | QTY                 |
|          | 4-01   | PEDESTRIAN UNIT PAVING<br>- 65MM PAVERS<br>- 25MM SAND SETTING BED   | 287.2 n             |
| ·        | 4-02   | CONCRETE PAVING - LIGHT DUTY   | 12.5 m²             |
|          | 4-03   | CONCRETE PAVING - HEAVY DUTY   | 28.5 m²             |
|          | 4-04   | ASPHALT PAVING REPAIR  - 75MM ASPHALT  - 200 MM DEPTH 20MM DIAMETER CRUSH  - 300MM DEPTH PITRUN                    | 110.5 m             |
|          | 4-05   | STANDARD CURB AND GUTTER   | 34.2 m              |
|          | 4-06   | CONCRETE PLANTER CURB<br>- 200MM HEIGHT ABOVE GRADE<br>- 200MM WIDTH   | 61.2 m              |
|          | 4-08   | FLUSH HEADER AT DRIVE AISLE  | 15.4 m              |
|          | 4-09   | FLUSH CONCRETE HEADER<br>- 200MM WIDE  | 22.2 m              |
|          | SYMBOL | 5 FENCES & GATES DESCRIPTION   | QTY                 |
|          | 5-02   | WASTE BIN ENCLOSURE  | 1                   |
|          | SYMBOL | 6 SITE FURNISHINGS & FEATURES DESCRIPTION  | QTY                 |
| 0        | 6-01   | TOWN OF DRUMHELLER EXISTING PLANTERS TO BE RELOCATED FROM EXISTING STAGE AREA BY TOWN.                             | 8                   |
|          | 6-08   | WASTE RECEPTACLE   | 1                   |
|          | 6-12   | PARKING LOT LINE PAINT   | 224.8 m             |
|          | 6-13   | EXISTING BISTRO TABLE  | 5                   |
|          | 6-15   | DINOSAUR THEMED BENCHES  | 8                   |
|          | 6-16   | DINO STAGE - DESIGN BUILD, FOR INFORMATION ONLY<br>C.I.P. CONCRETE PLATFORM<br>- 150MM HIGH                        | 35.2 m <sup>2</sup> |
|          |        | CONC STEPS - 150MM HIGH - 500MM WIDE   | 24.2 m              |
|          | 6-17   | DINO STAGE - DESIGN BUILD, FOR INFORMATION ONLY CANOPY   | 1                   |
|          | SYMBOL | 8 ELECTRICAL<br>DESCRIPTION  | QTY                 |
| <b>©</b> | 8-01   | PEDESTRIAN LIGHT   | 6                   |
|          | 8-02   | PEDESTAL   | 4                   |
|          |        |  |                     |

### PLANTING LEGEND

| TREES  | CODE | BOTANICAL / COMMON NAME                                     | CONTAINER | CALIPER  | QTY        |
|--|------|---|-----------|----------|------------|
| lacksquare   | MR   | MALUS BACCATA 'ROSTHERN' / ROSTHERN CRABAPPLE               | B & B     | 75MM CAL | 16         |
| SHRUBS   | CODE | BOTANICAL / COMMON NAME                                     | CONTAINER | Ţ        | <u>QTY</u> |
| $\bigcirc$   | AX   | ARENARIA X 'WALLOWA MOUNTAINS' / WALLOWA MOUNTAINS SANDWORT | 1 GAL     | 0.3M     | 182        |
|  | AA2  | ARUNCUS AETHUSIFOLIUS / DWARF GOATSBEARD                    | 2 GAL     | 0.3M     | 66         |
| <del>}</del>   | AC   | ASTILBE X 'CAPPUCCINO' / CAPPUCCINO ASTILBE                 | 2 GAL     | 0.4M     | 118        |
| A STATE OF THE STA | ER   | ECHIUM AMOENUM / RED FEATHERS                               | 1 GAL     | 0.2M     | 176        |
| £;3  | GT   | GEUM TRIFLORUM / PRAIRIE SMOKE                              | 1 GAL     | 0.2M     | 200        |
| $\bigcirc$   | HN   | HEMEROCALLIS X 'NIGHT EMBERS' / NIGHT EMBERS DAYLILY        | 2 GAL     | 0.6M     | 77         |
| 0  | LX   | LUPINUS X 'NOBLE MAIDEN' / NOBLE MAIDEN WHITE LUPINE        | 2 GAL     | 0.5M     | 57         |
|  |      |   |           |          |            |



DRUMHELLER DOWNTOWN PLAZA

FOR MUNICIPALITY OF DRUMHELLER

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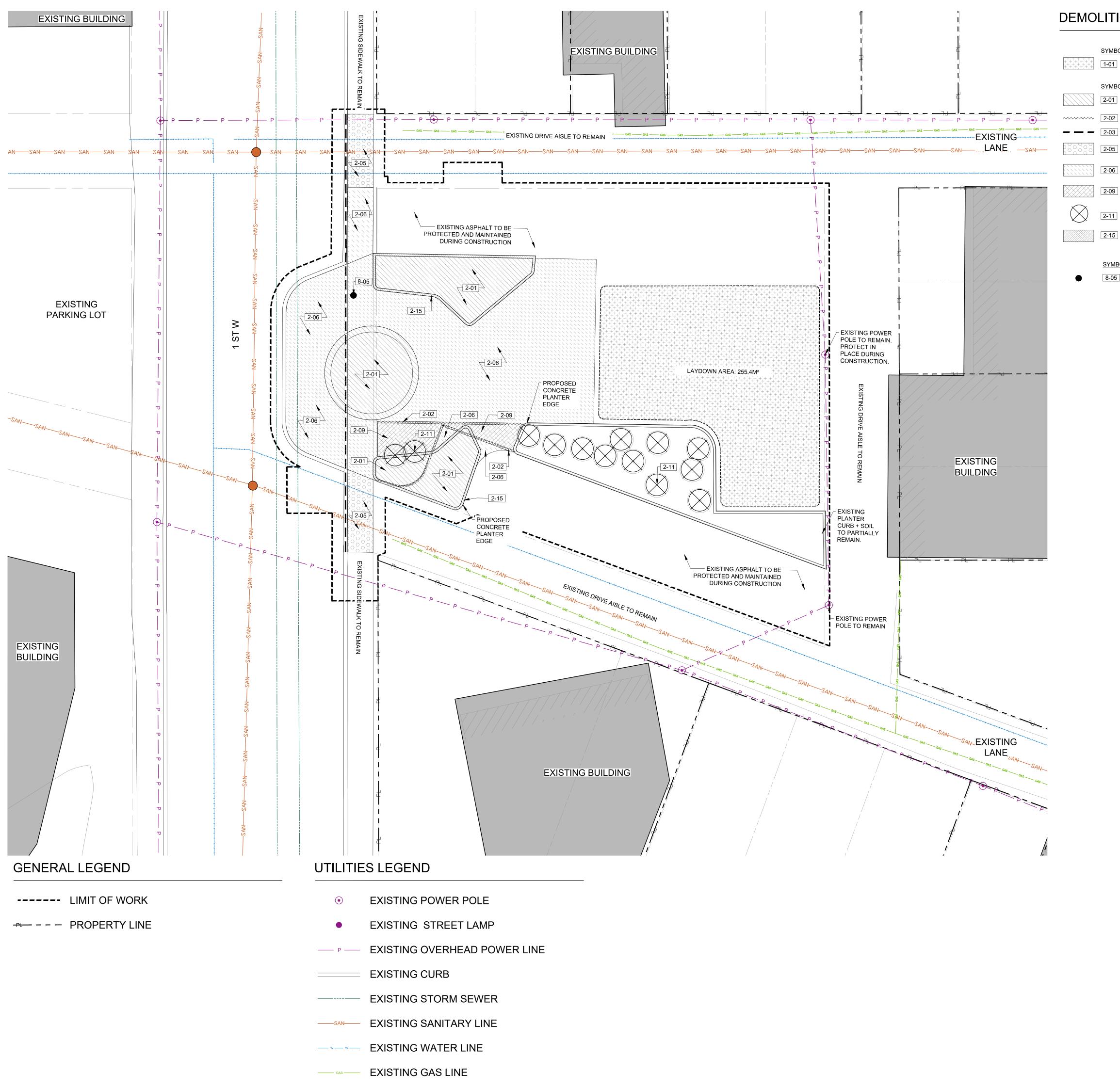
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DRAWING TITLE :
SCHEDULES

G-001

CHECKED BY: MW



#### **DEMOLITION & RELOCATIONS LEGEND**

| BOL_ | 1 GENERAL CONDITIONS DESCRIPTION   | QTY                  |
|------|--|----------------------|
|      | CONSTRUCTION LAYDOWN AREA.   | 255.4 m <sup>2</sup> |
| BOL_ | 2 SELECTIVE DEMOLITION & RELOCATIONS DESCRIPTION   | <u>QTY</u>           |
|      | REMOVE EXISTING SURFACE AND/OR EXCAVATE TO 600MM ± DEPTH   | 117.9 m²             |
| !    | REMOVE EXISTING CONCRETE CURB - PLANTER  | 26.7 m               |
| 3    | REMOVE EXISTING CONCRETE CURB AND GUTTER - ROAD  | 35.8 m               |
|      | REMOVE EXISTING CONCRETE PAVING TO 480MM ± DEPTH FOR HEAVY DUTY CONCRETE PAVING                      | 26.0 m²              |
|      | REMOVE EXISTING ASPHALT PAVING TO 380MM $\pm$ DEPTH REQUIRED FOR PEDESTRIAN PAVERS. REFER TO LM-100. | 278.9 m²             |
|      | REMOVE EXISTING PLANTING AND PLANTING SOIL TO 450MM± DEPTH FOR PEDESTRIAN PAVERS. REFER TO LM-100    | 18.4 m²              |
|      | EXISTING SHRUB TO BE REMOVED   | 12                   |
|      | REMOVE EXISTING ASPHALT PAVING TO 300MM ± DEPTH REQUIRED FOR CONCRETE PLANTER EDGE. REFER TO LM-100. | 11.4 m²              |
| IBOL | 8 ELECTRICAL DESCRIPTION   | QTY                  |
| 5    | EXISTING LAMP TO BE REMOVED BY ATCO. CONTRACTOR TO COORDINATE TIMING.                                | 1                    |



DRUMHELLER DOWNTOWN PLAZA

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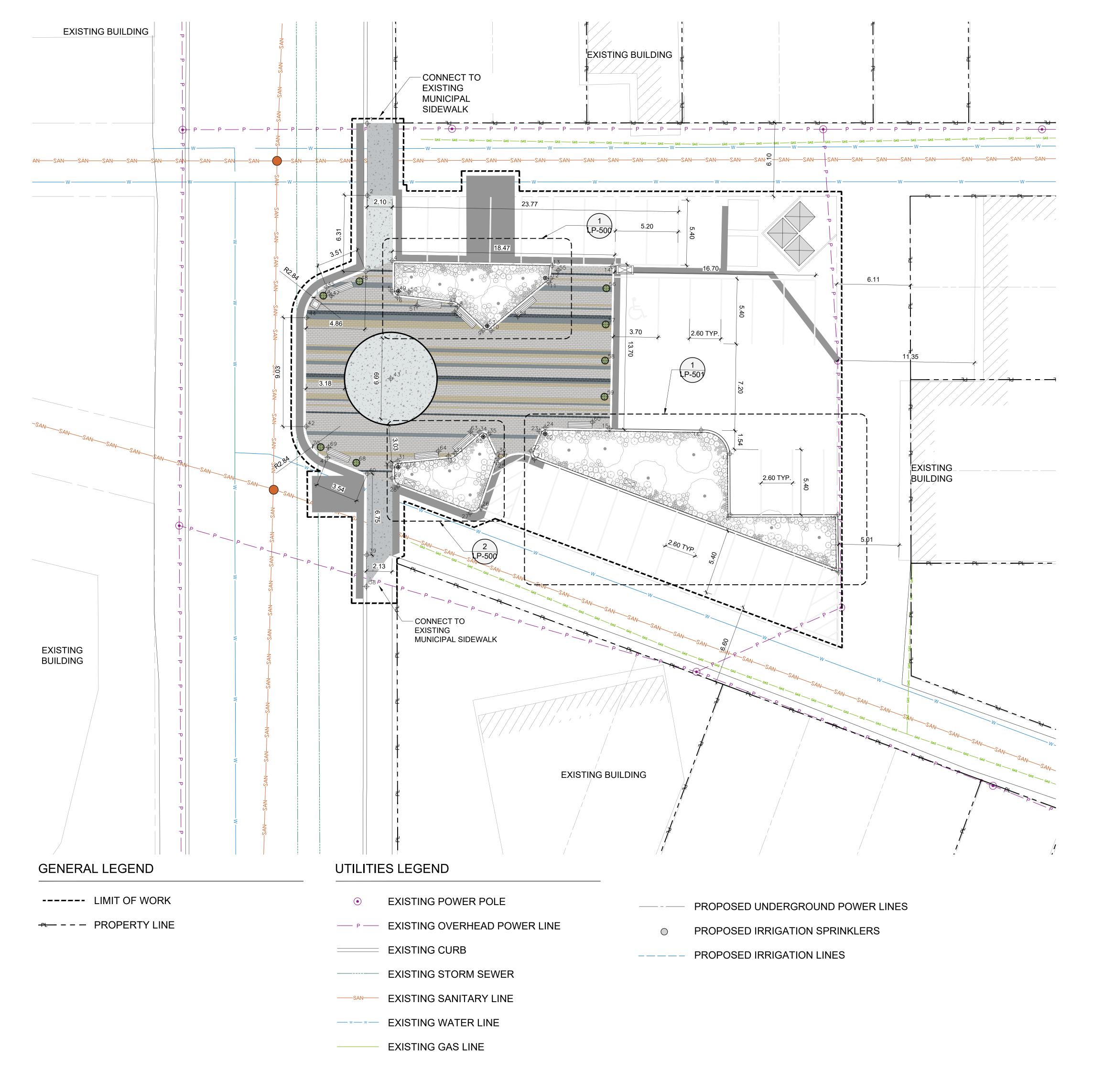
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DRAWING TITLE :

DEMO PLAN

SCALE: 1:150

LD-100



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| 3        | N 5703846.93                 | E 89700.26               |
| 4        | N 5703847.86                 | E 89702.43               |
| 5<br>6   | N 5703845.33<br>N 5703844.84 | E 89702.47<br>E 89702.93 |
| 7        | N 5703844.41                 | E 89702.93               |
| 8        | N 5703844.15                 | E 89707.93               |
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| 11       | N 5703846.30                 | E 89715.46               |
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| 17       | N 5703832.33                 | E 89730.74               |
| 18<br>19 | N 5703827.27<br>N 5703827.43 | E 89730.86<br>E 89739.80 |
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| 22       | N 5703832.27                 | E 89714.24               |
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| 24       | N 5703834.22                 | E 89715.37               |
| 25<br>26 | N 5703831.26<br>N 5703827.48 | E 89711.40<br>E 89710.16 |
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| 28       | N 5703829.16                 | E 89703.23               |
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| 31<br>32 | N 5703831.23<br>N 5703831.72 | E 89703.17<br>E 89707.39 |
| 33       | N 5703831.72                 | E 89707.91               |
| 34       | N 5703833.77                 | E 89709.91               |
| 35       | N 5703833.61                 | E 89710.69               |
| 36       | N 5703831.97                 | E 89711.49               |
| 37       | N 5703831.62<br>N 5703820.78 | E 89711.51               |
| 38<br>39 | N 5703823.40                 | E 89700.75<br>E 89700.74 |
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| 43       | N 5703838.07                 | E 89702.48               |
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| 68       | N 5703831.04                 | E 89699.74               |
| 69<br>70 | N 5703832.28                 | E 89697.42               |
| 70       | N 5703832.29                 | E 89696.76               |



DRUMHELLER DOWNTOWN PLAZA

MUNICIPALITY OF DRUMHELLER

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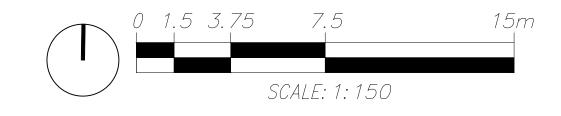
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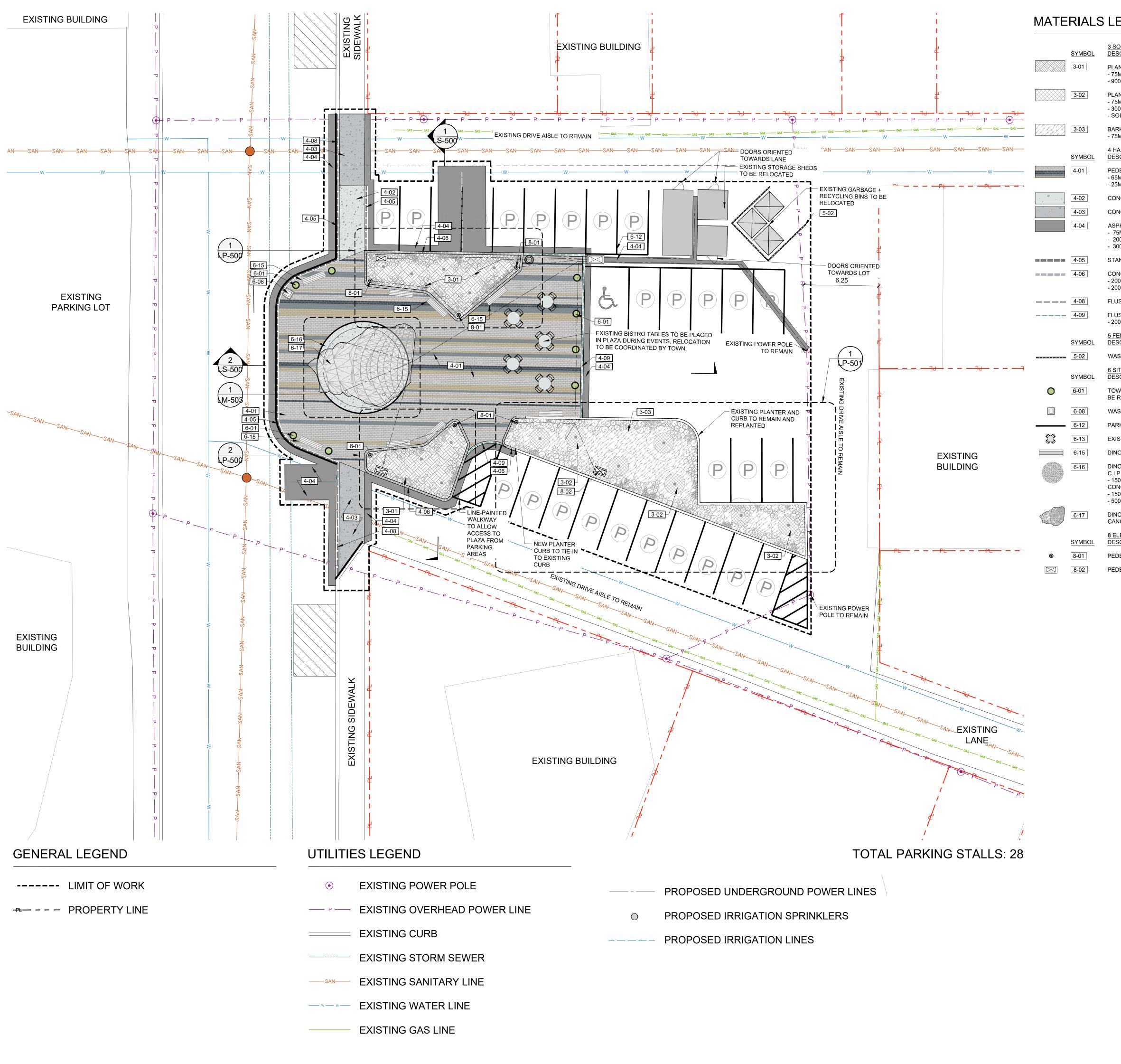
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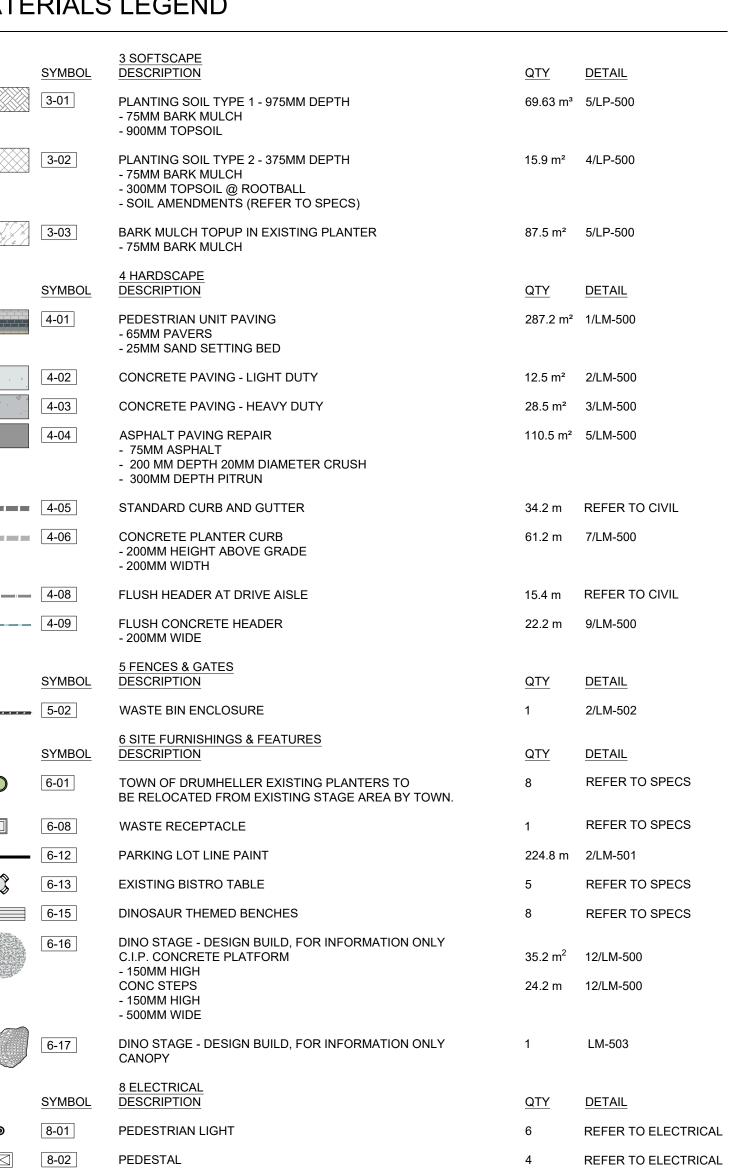
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LAYOUT PLAN

LL-100





#### MATERIALS LEGEND





## DRUMHELLER DOWNTOWN PLAZA

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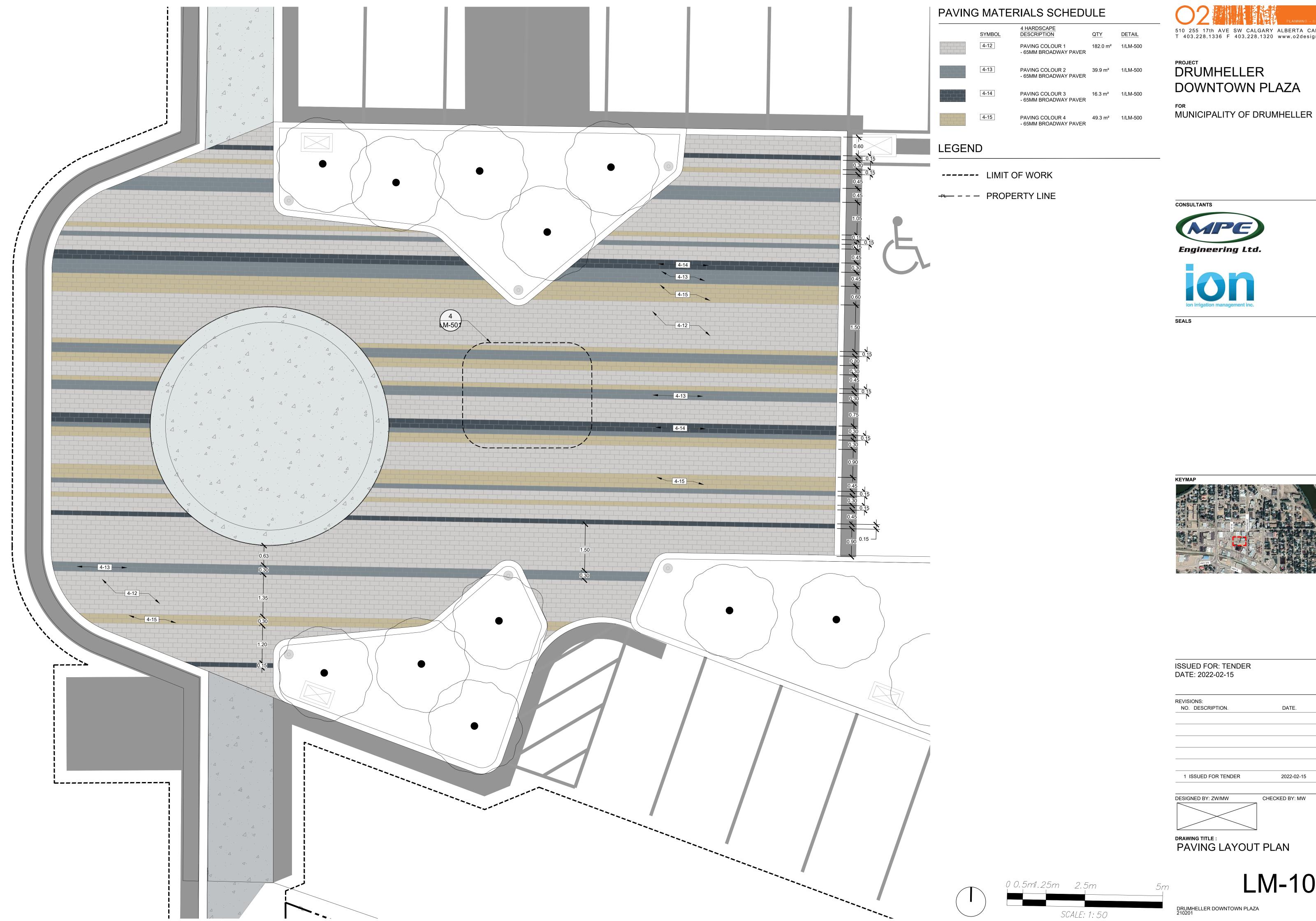
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LM-101

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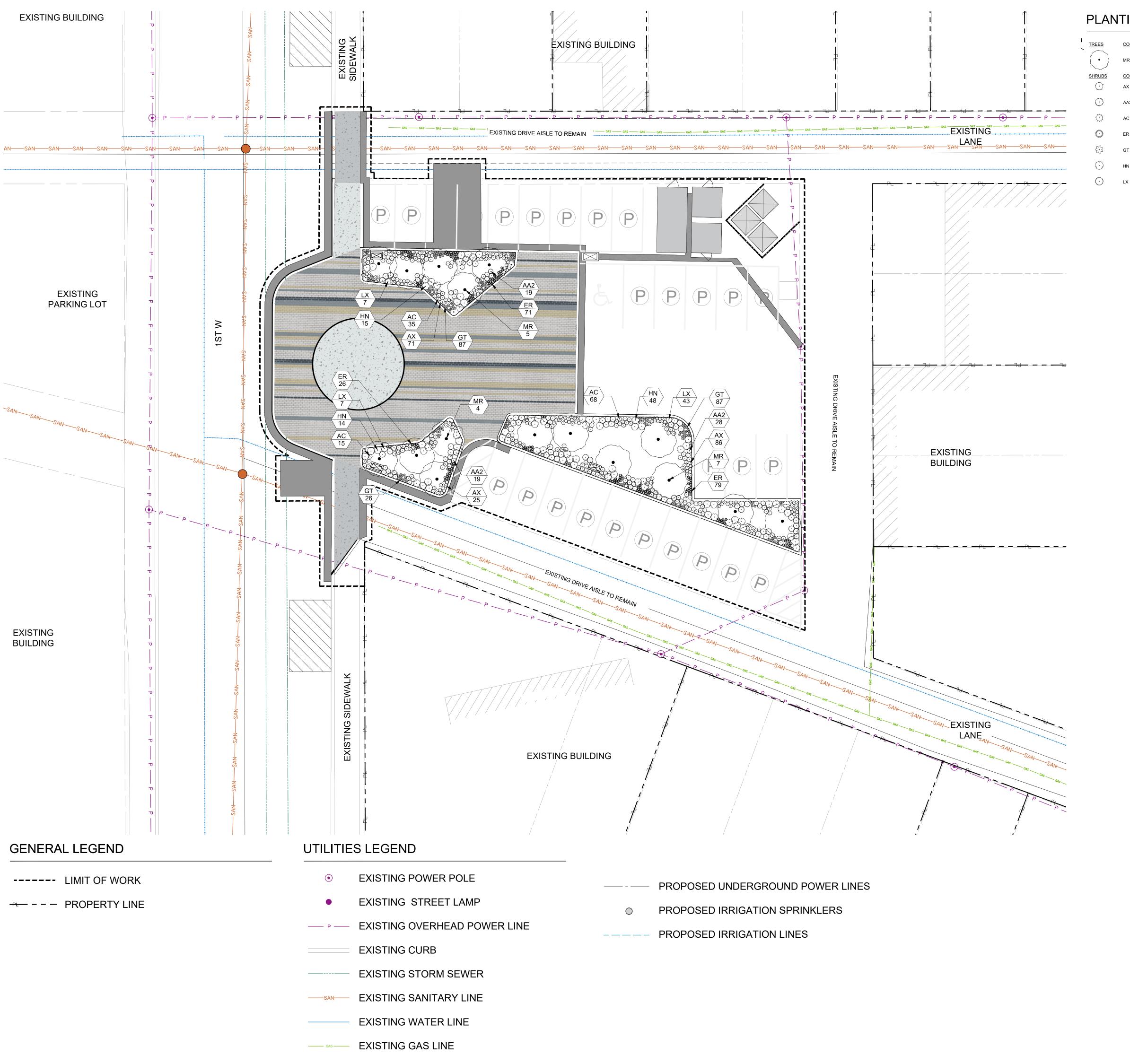
DRUMHELLER DOWNTOWN PLAZA 210201

SCALE: 1: 150



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## PLANTING LEGEND

| TREES   | CODE | BOTANICAL / COMMON NAME                                     | CONTAINER | CALIPER  |
|---|------|---|-----------|----------|
| •   | MR   | MALUS BACCATA 'ROSTHERN' / ROSTHERN CRABAPPLE               | B & B     | 75MM C   |
| SHRUBS  | CODE | BOTANICAL / COMMON NAME                                     | CONTAINER | <u>T</u> |
| $\bigcirc$  | AX   | ARENARIA X 'WALLOWA MOUNTAINS' / WALLOWA MOUNTAINS SANDWORT | 1 GAL     | 0.3M     |
| ( )   | AA2  | ARUNCUS AETHUSIFOLIUS / DWARF GOATSBEARD                    | 2 GAL     | 0.3M     |
| ***   | AC   | ASTILBE X 'CAPPUCCINO' / CAPPUCCINO ASTILBE                 | 2 GAL     | 0.4M     |
| Marin | ER   | ECHIUM AMOENUM / RED FEATHERS                               | 1 GAL     | 0.2M     |
|   | GT   | GEUM TRIFLORUM / PRAIRIE SMOKE                              | 1 GAL     | 0.2M     |
| $\odot$   | HN   | HEMEROCALLIS X 'NIGHT EMBERS' / NIGHT EMBERS DAYLILY        | 2 GAL     | 0.6M     |
|   |      |   |           |          |

LUPINUS X 'NOBLE MAIDEN' / NOBLE MAIDEN WHITE LUPINE



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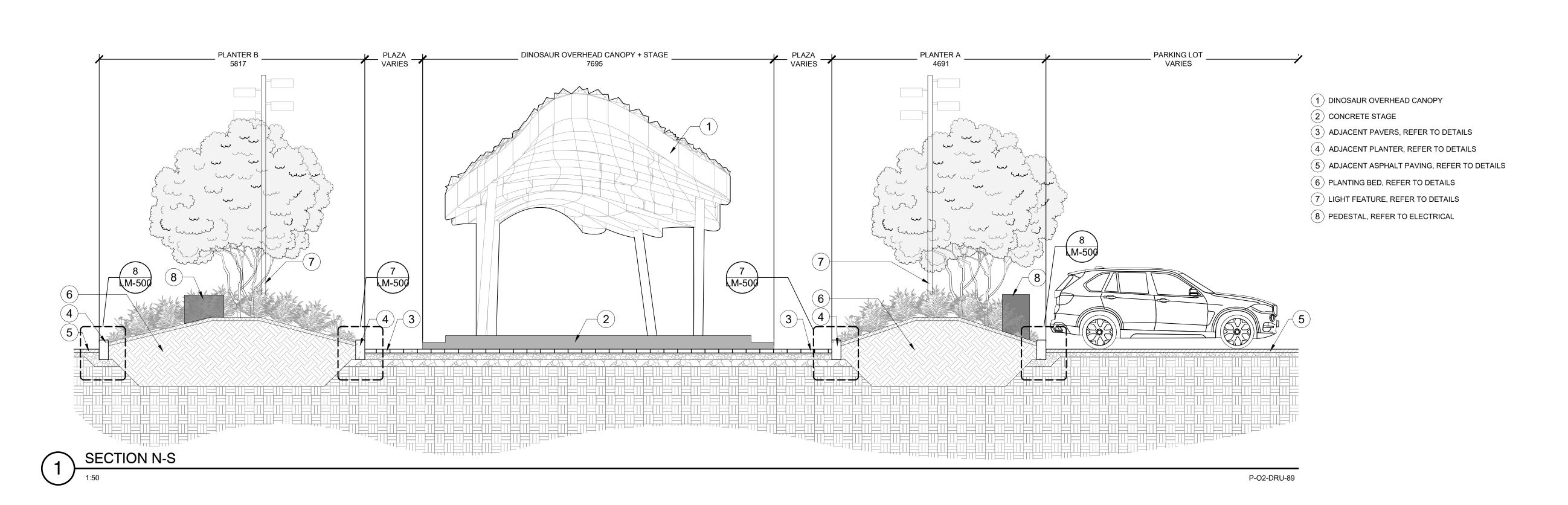
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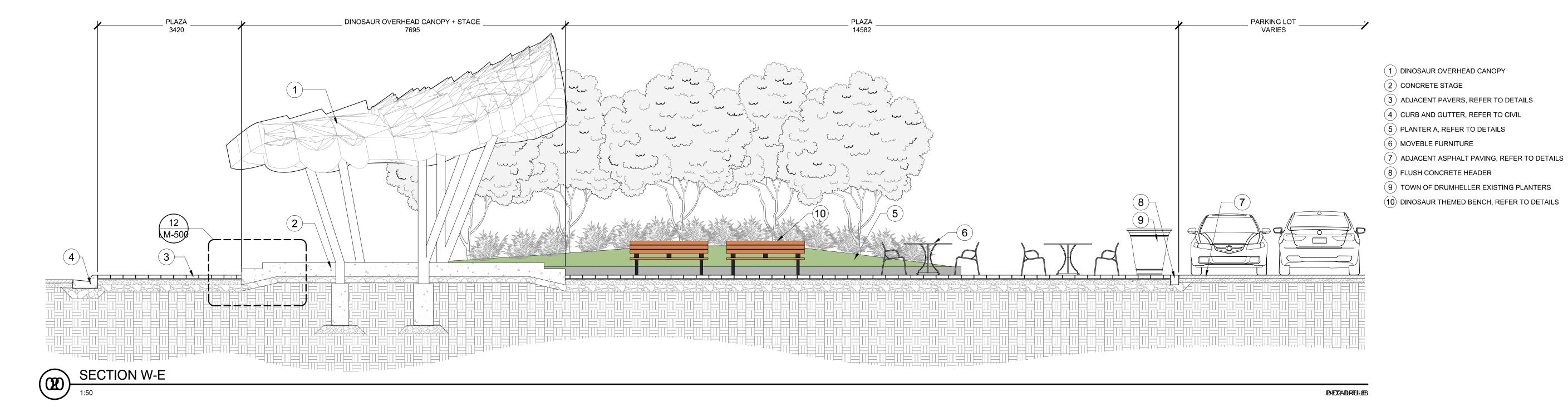
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DRUMHELLER DOWNTOWN PLAZA 210201

SCALE: 1: 150







## DRUMHELLER DOWNTOWN PLAZA

FOR MUNICIPALITY OF DRUMHELLER



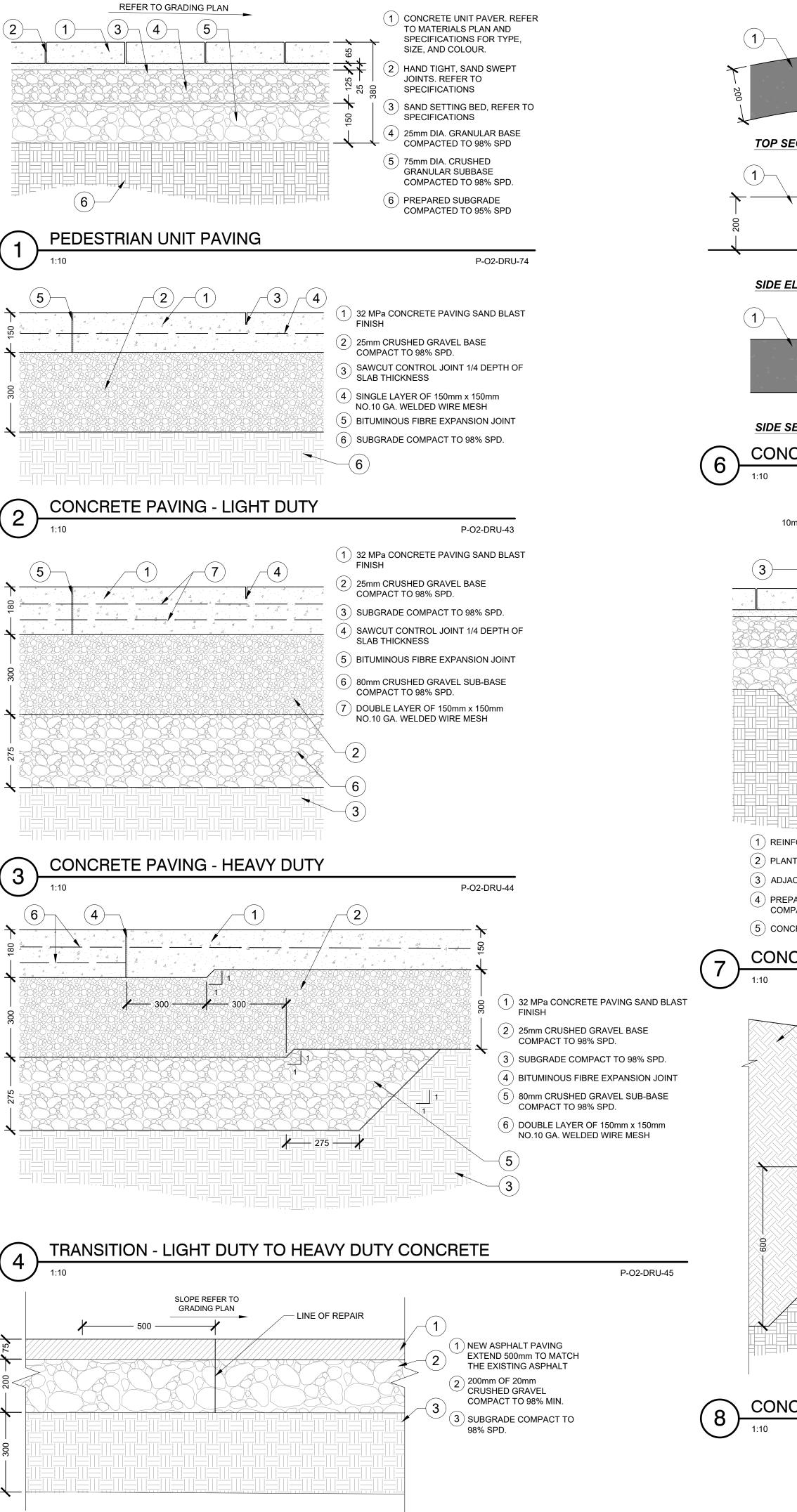


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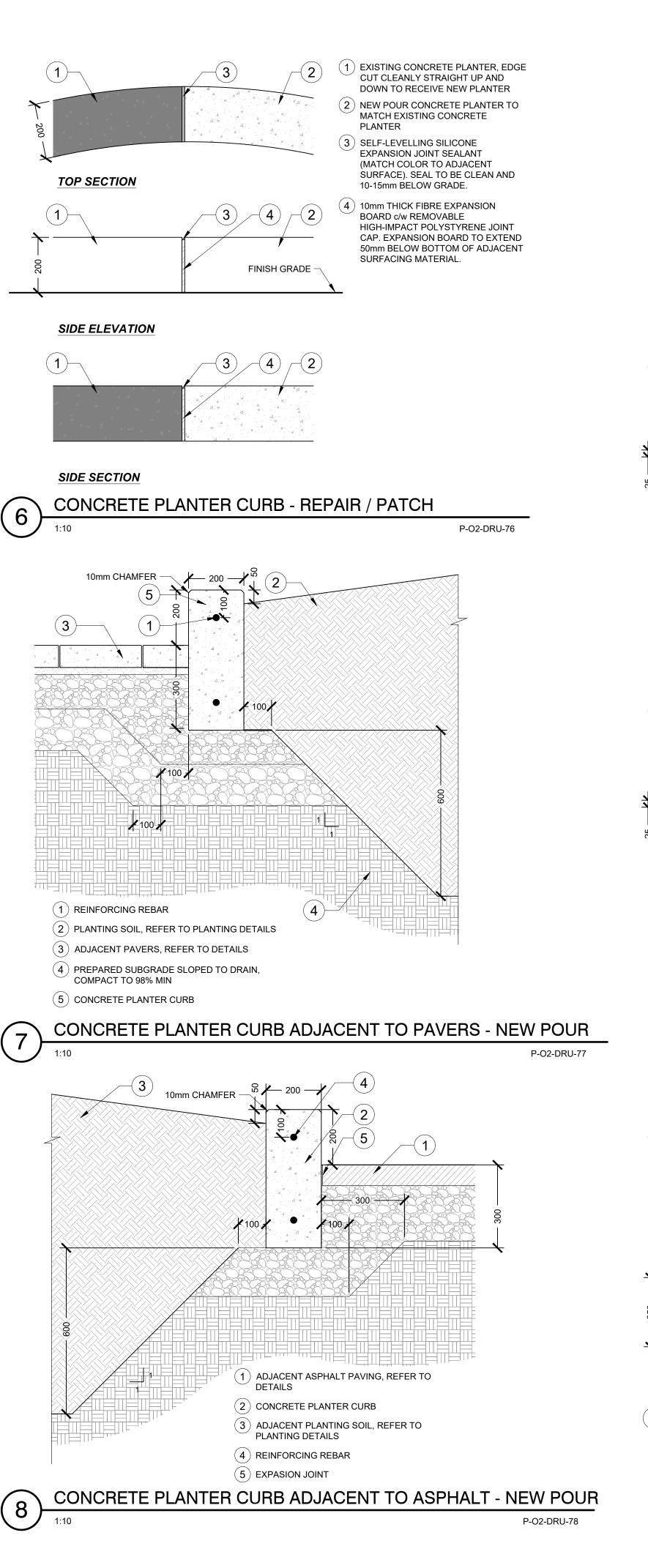


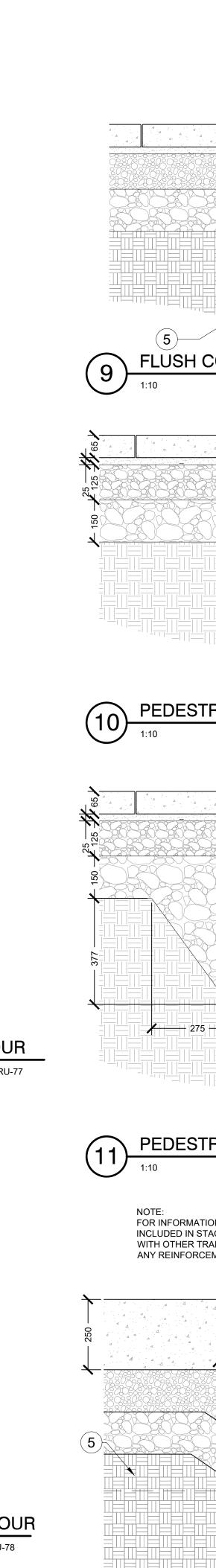
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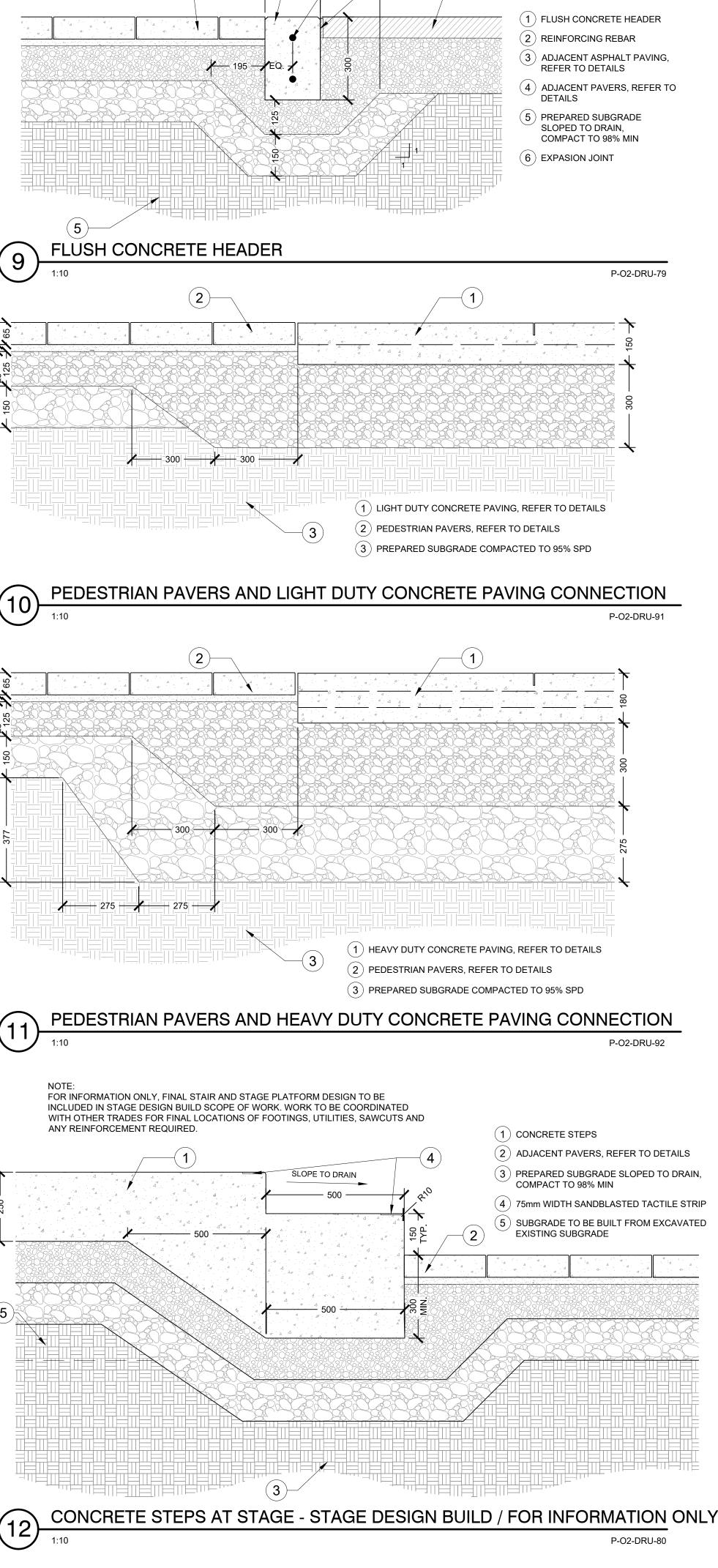


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## PROJECT DRUMHELLER **DOWNTOWN PLAZA**

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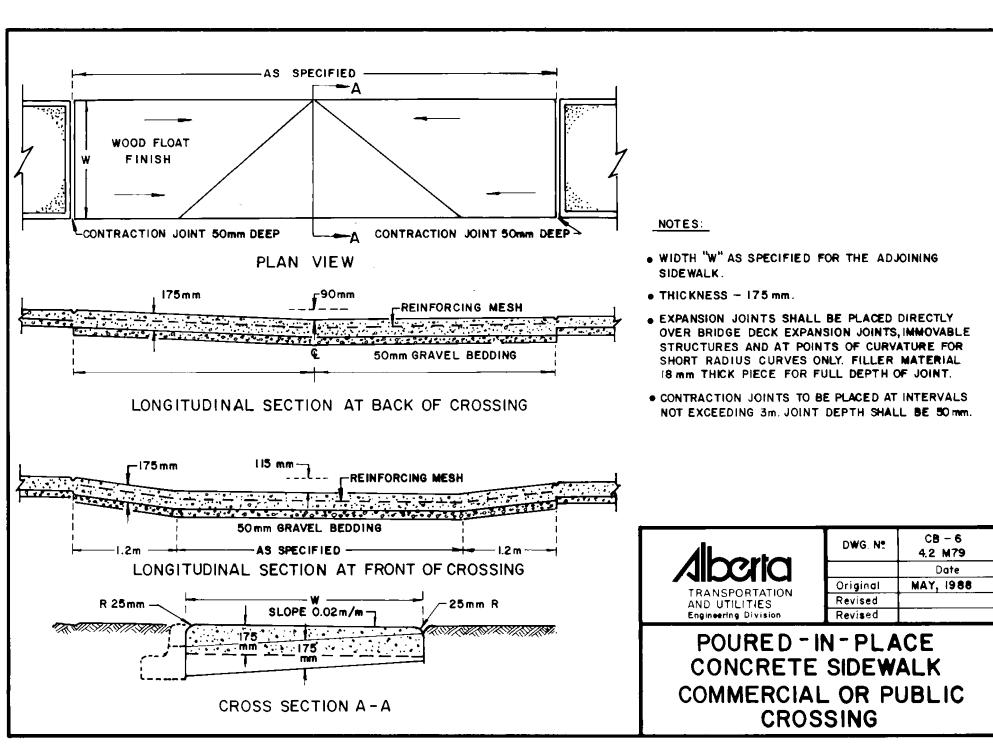
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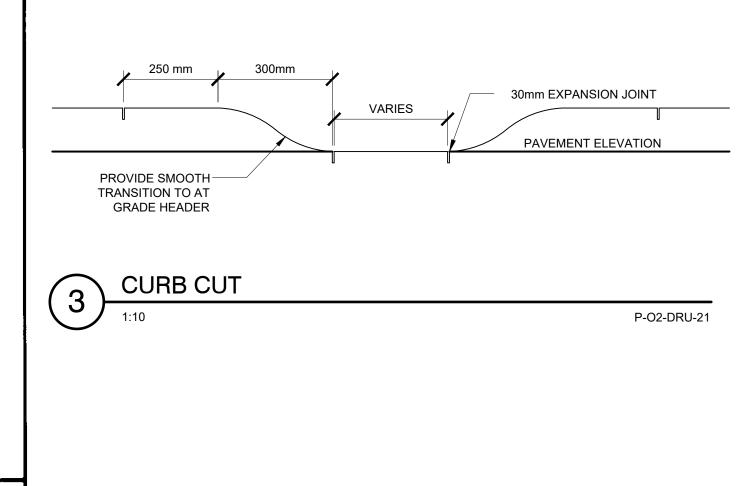


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PAVEMENT DETAILS





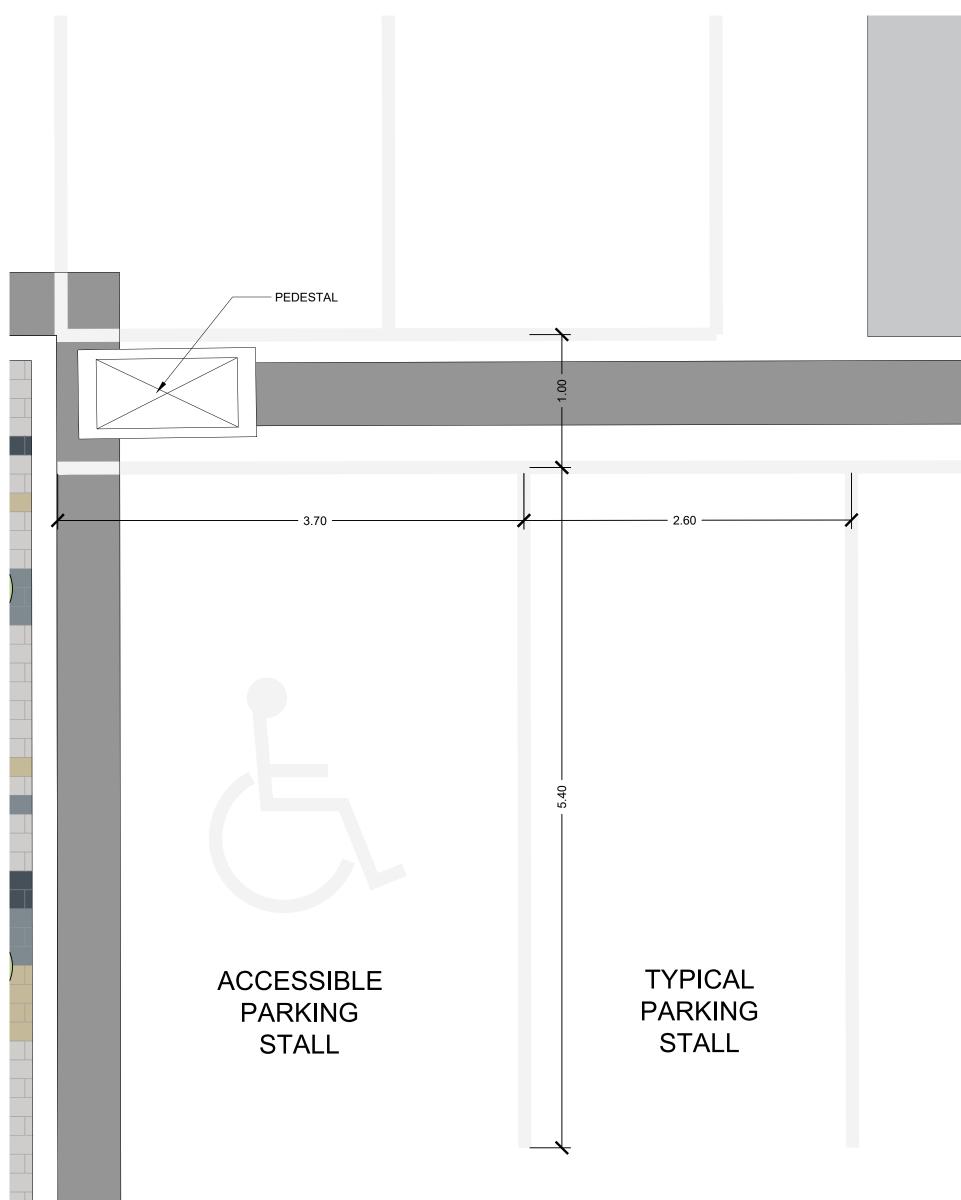
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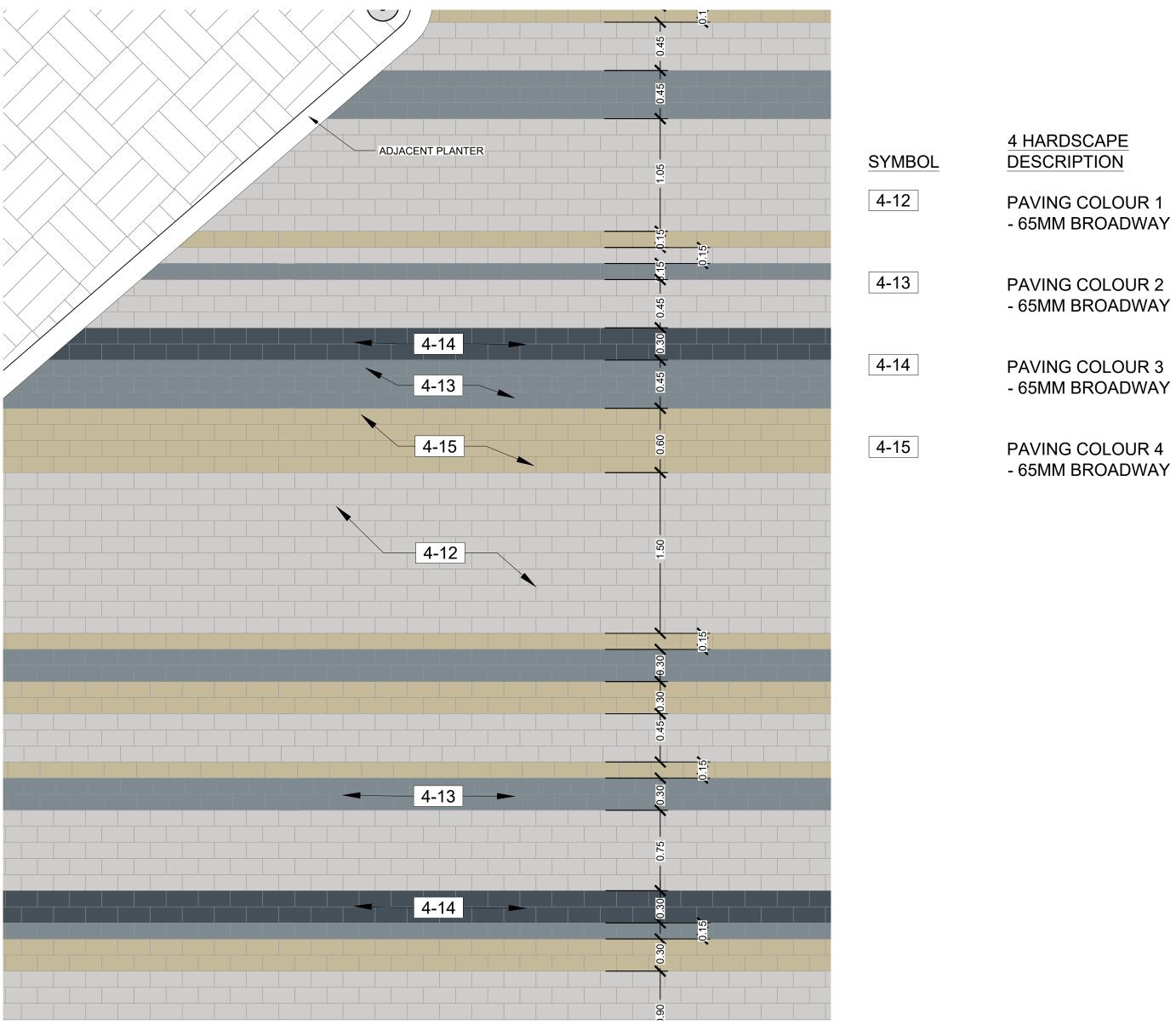
PARKING LINE PAINT

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P-02-DRU-81





PAVING ENLARGEMENT DETAIL

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## DRUMHELLER DOWNTOWN PLAZA

MUNICIPALITY OF DRUMHELLER





SEALS

4 HARDSCAPE

DESCRIPTION

**PAVING COLOUR 1** 

PAVING COLOUR 3

PAVING COLOUR 4

- 65MM BROADWAY PAVER

- 65MM BROADWAY PAVER

- 65MM BROADWAY PAVER

- 65MM BROADWAY PAVER

SYMBOL

4-12

4-14

4-15

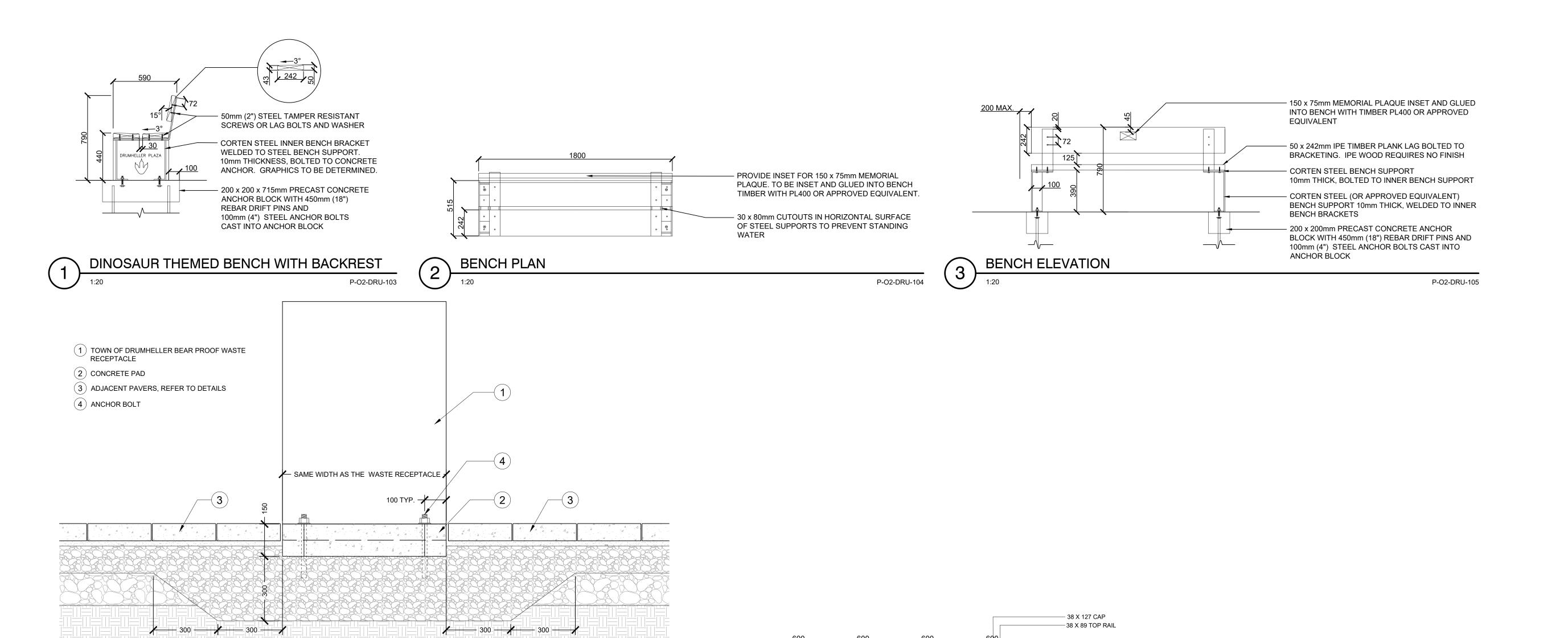
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| DESIGNED BY: ZW/MW  | CHECKED BY: MW |   |

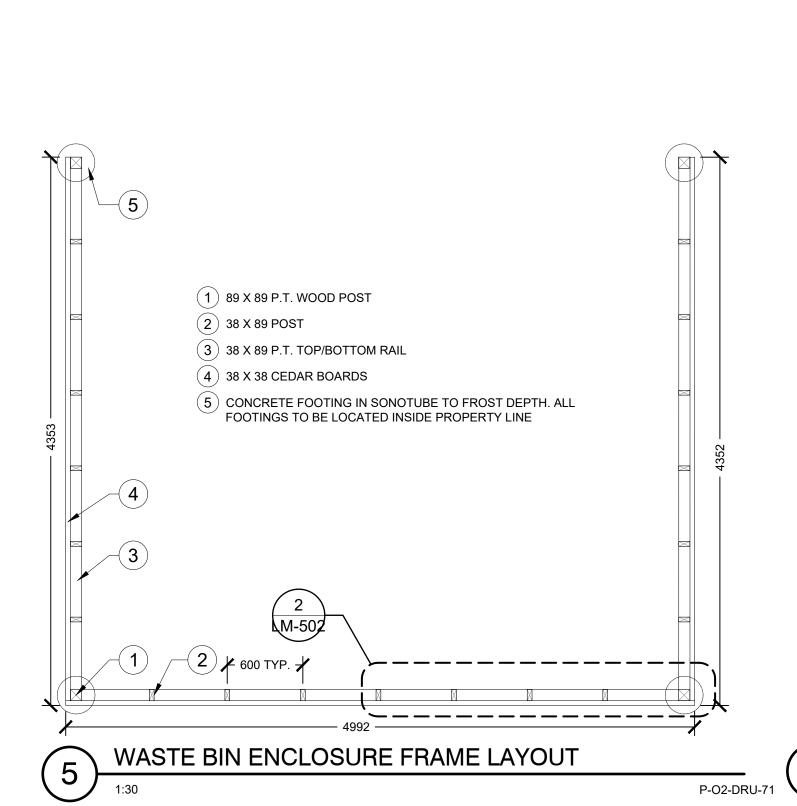
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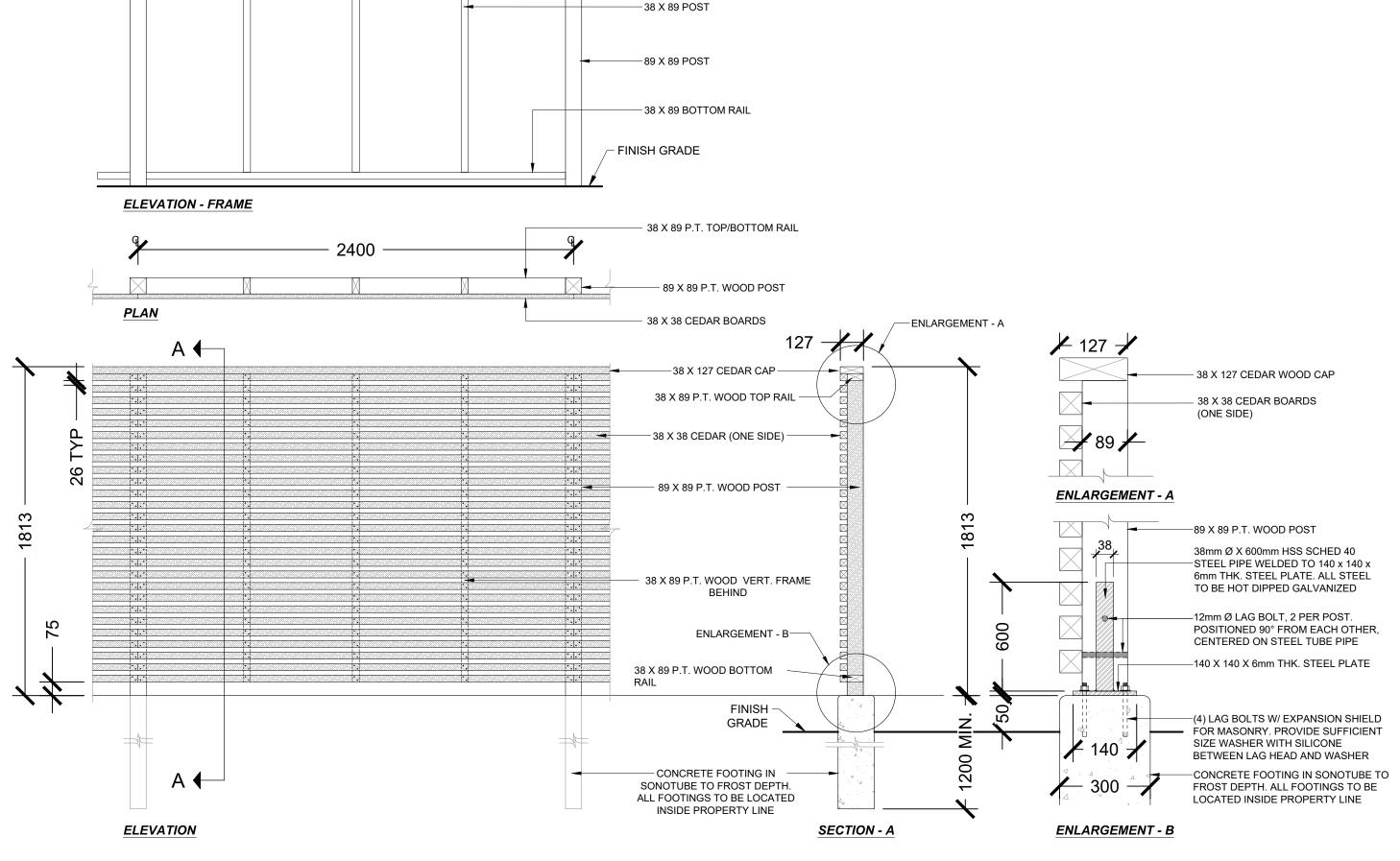
LM-501



WASTE BIN ENCLOSURE FENCE

WASTE RECEPTACLE





CONTRACTOR TO SPECIFY HARDWARE FOR WOOD CONFECTIONS FOR APPROVAL.



## DRUMHELLER DOWNTOWN PLAZA

MUNICIPALITY OF DRUMHELLER





SEALS

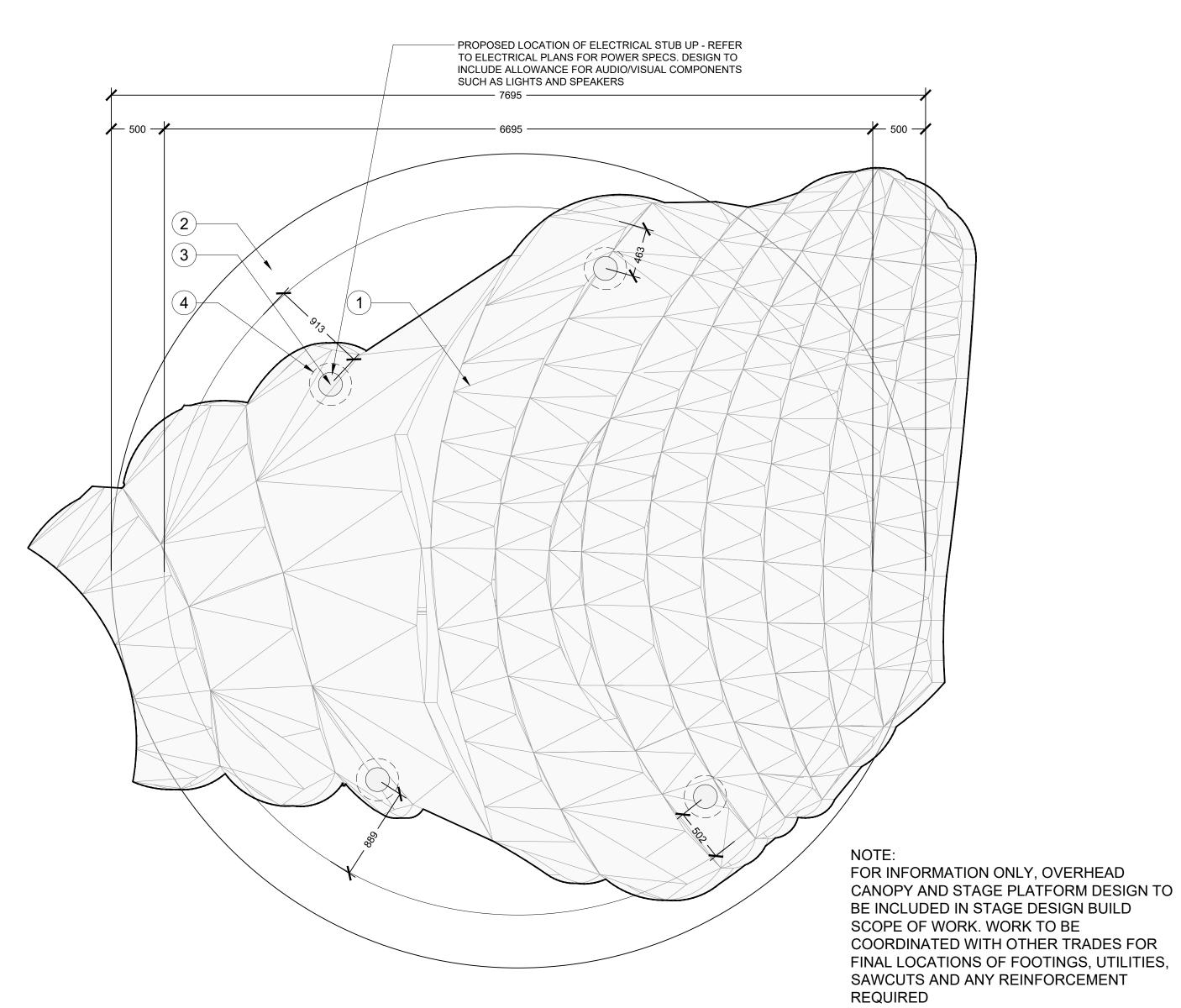


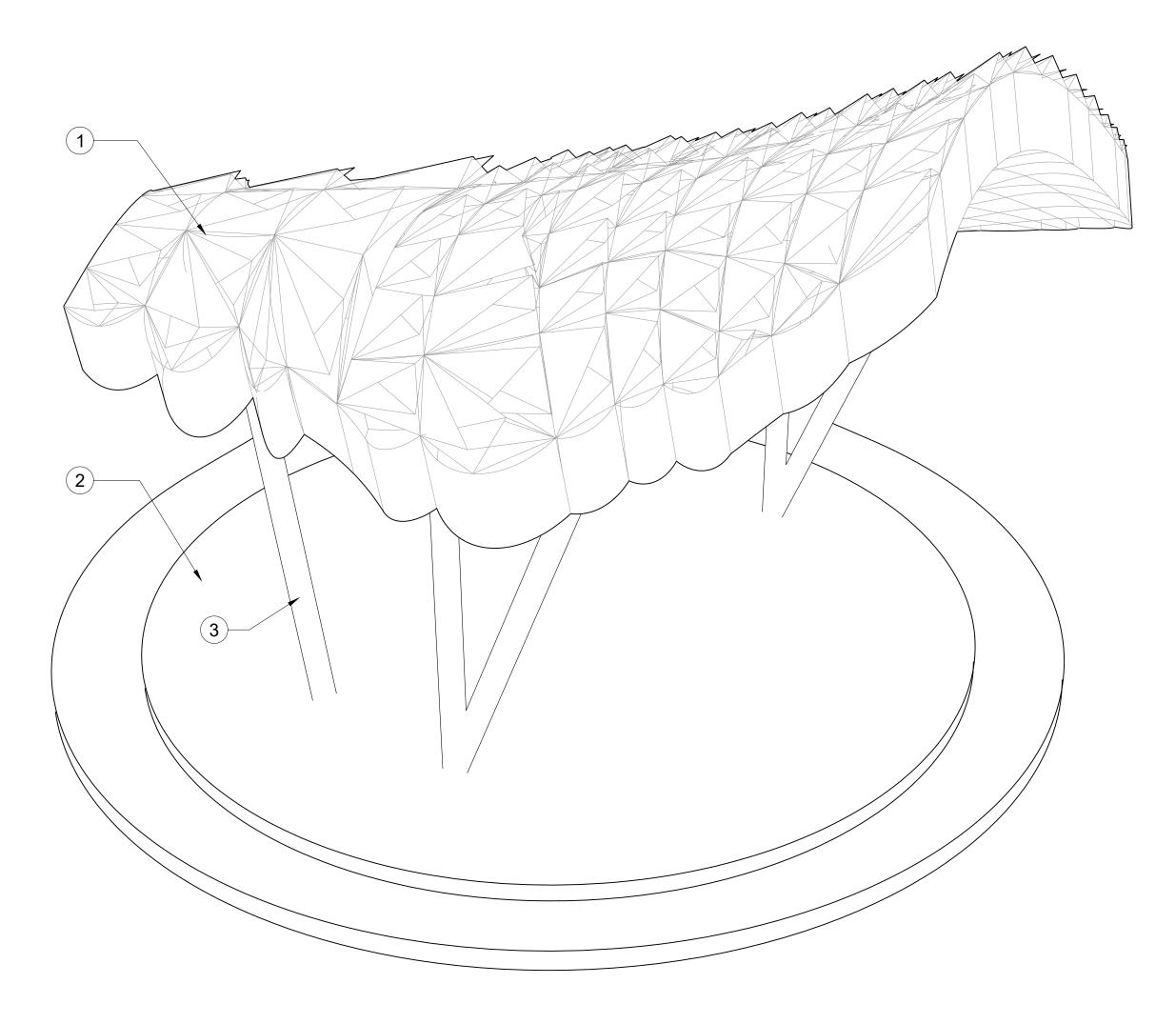
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| 1 ISSUED FOR TENDER | 2022-02-15     |
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| DESIGNED BY: ZW/MW  | CHECKED BY: MW |
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LM-502

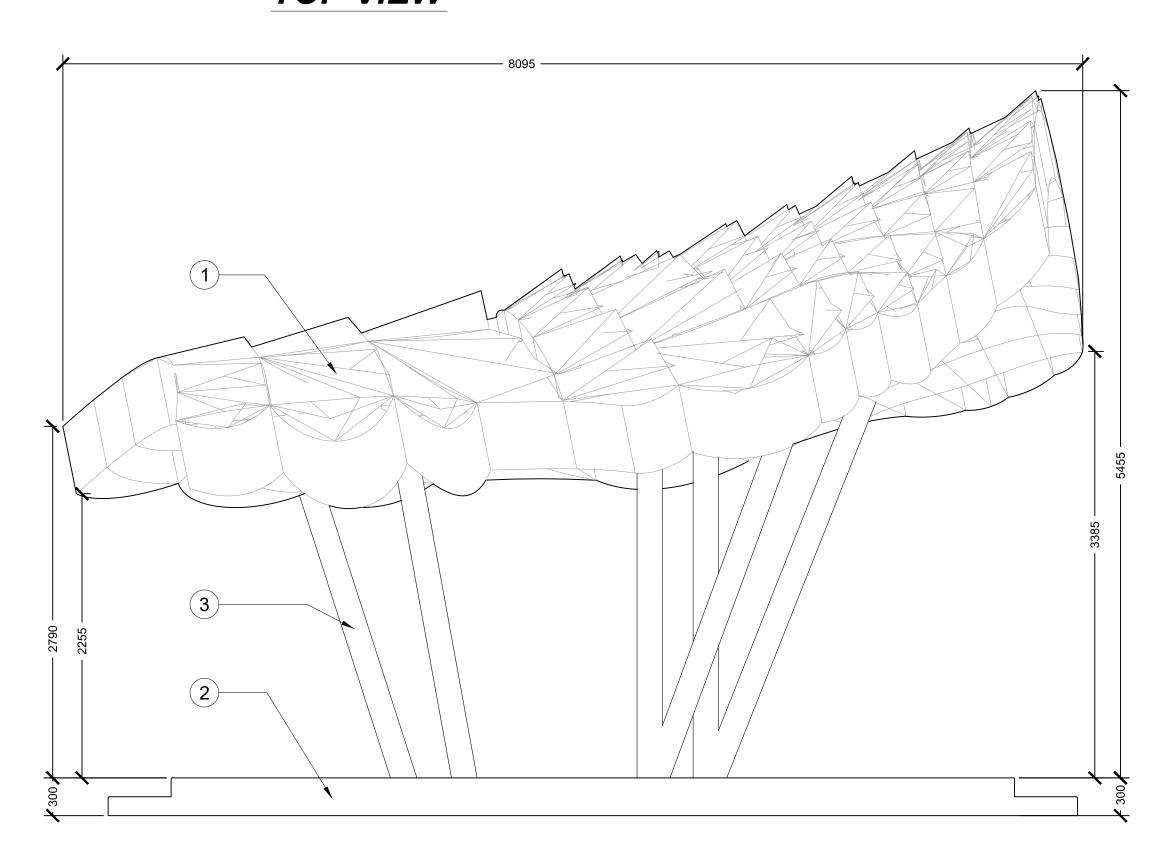
DRUMHELLER DOWNTOWN PLAZA 210201

P-O2-DRU-50

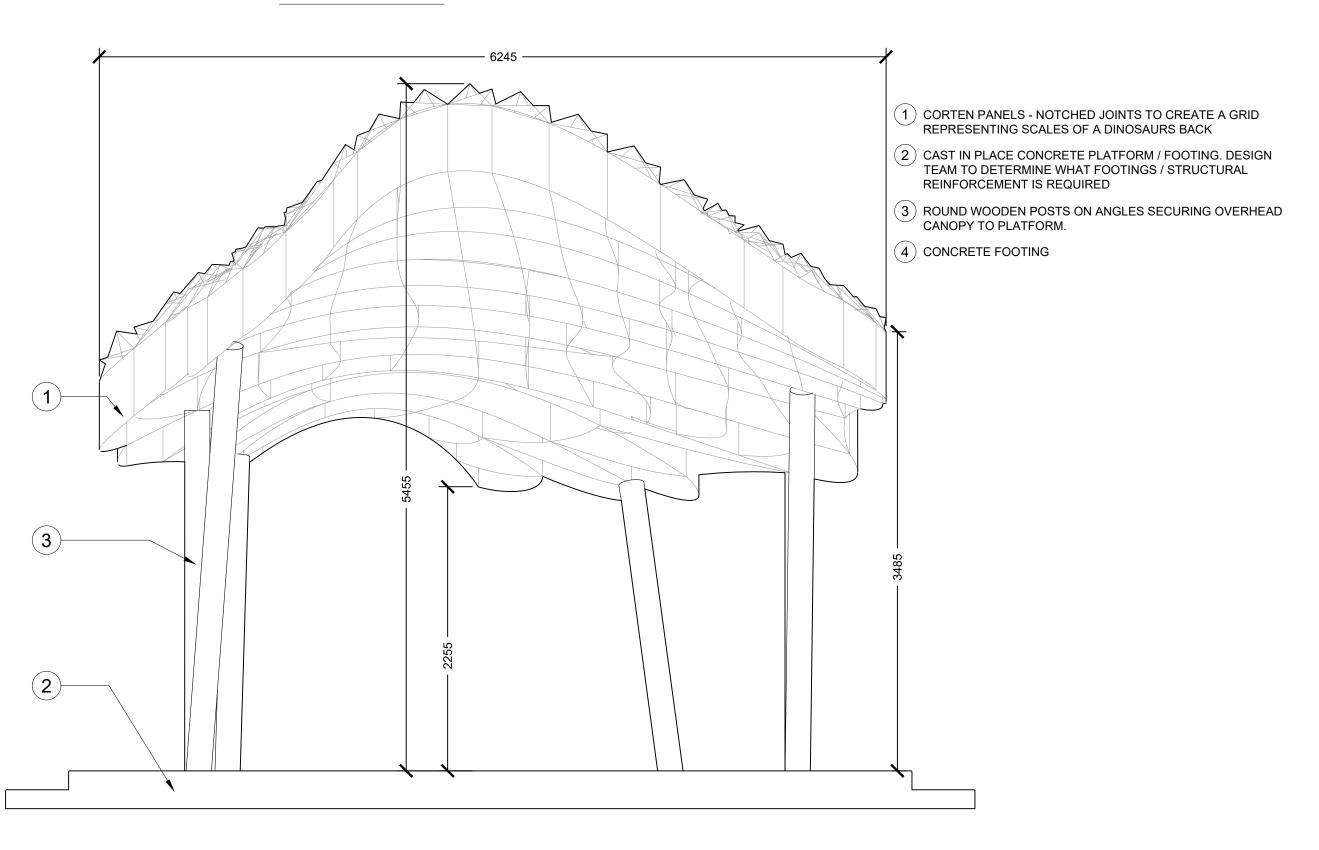




# TOP VIEW



## ISO VIEW



FRONT ELEVATION

T 403.228.1336 F 403.228.1320 www.o2design.com

## PROJECT DRUMHELLER DOWNTOWN PLAZA

MUNICIPALITY OF DRUMHELLER





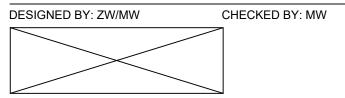
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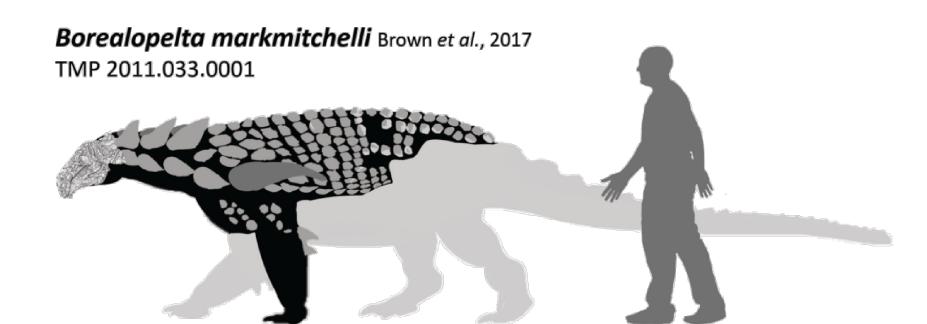
SITE FEATURES DETAILS

LM-503

DINOSAUR OVERHEAD CANOPY + STAGE - DESIGN BUILD / FOR INFORMATION ONLY

SIDE ELEVATION

P-02-DRU-90



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# PROJECT DRUMHELLER DOWNTOWN PLAZA

FOR MUNICIPALITY OF DRUMHELLER

## PRECEDENT A



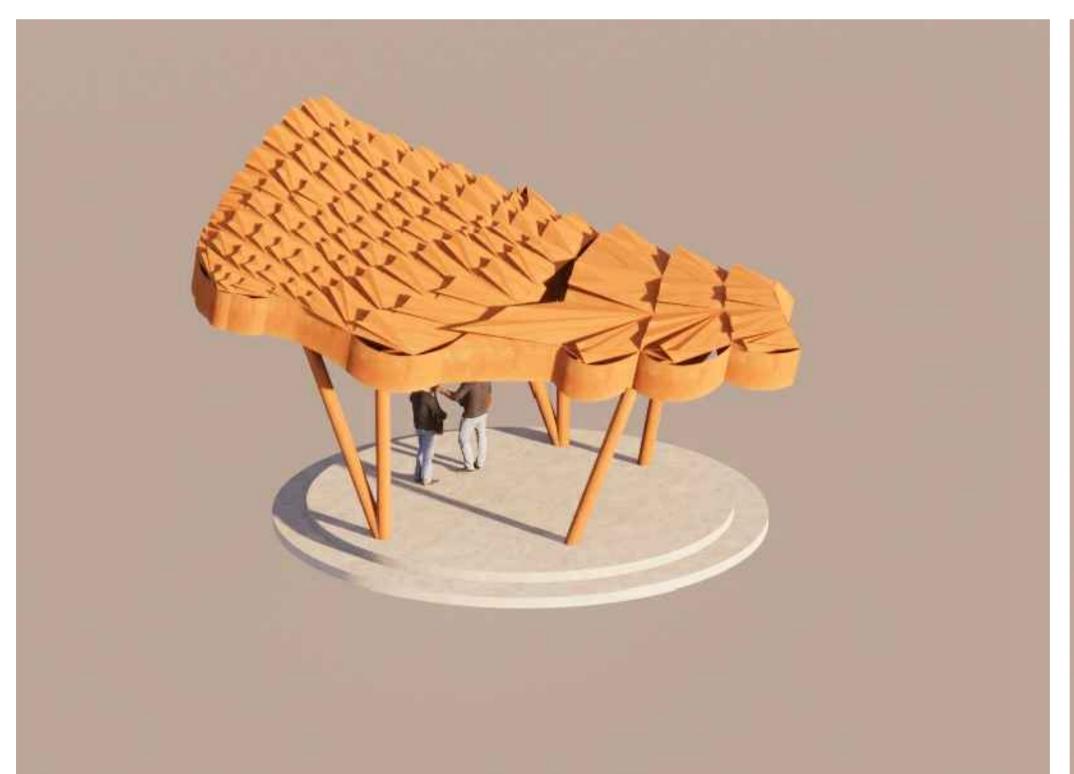






SEALS

ISO VIEW









ISSUED FOR: TENDER DATE: 2022-02-15

REVISIONS: NO. DESCRIPTION. DATE. BY.

1 ISSUED FOR TENDER

DESIGNED BY: ZW/MW

DRAWING TITLE :
SITE FEATURES DETAILS

PRECEDENT C

PRECEDENT B

LM-504

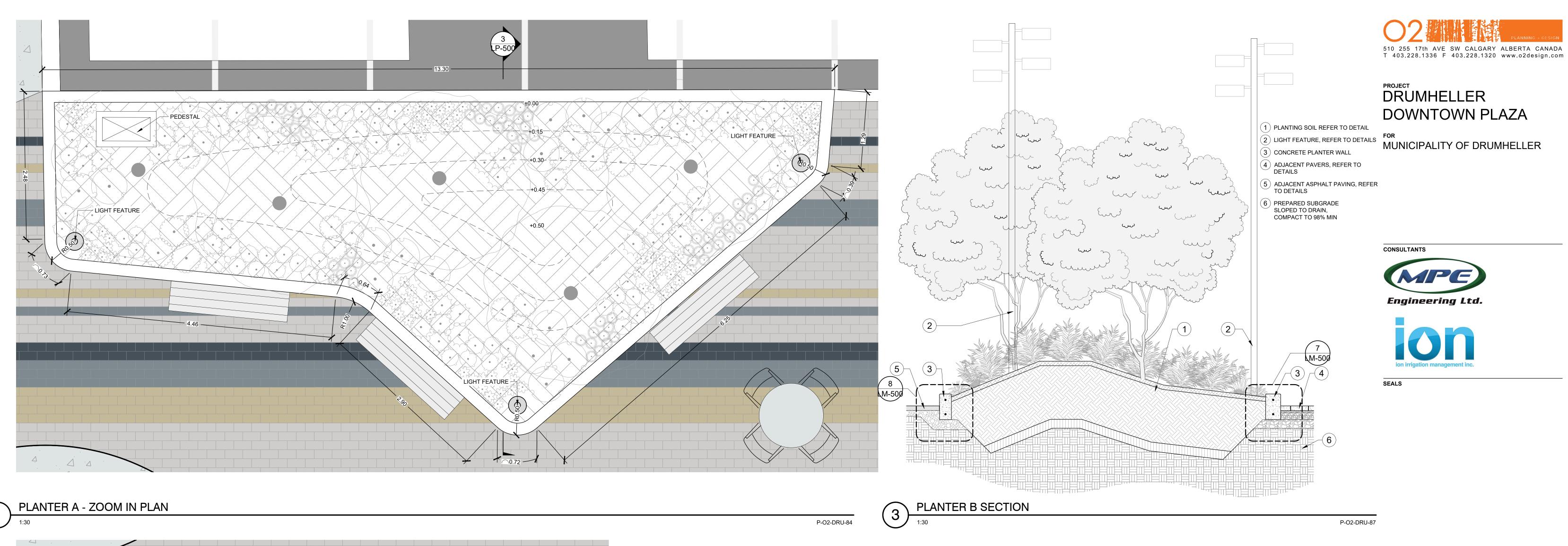
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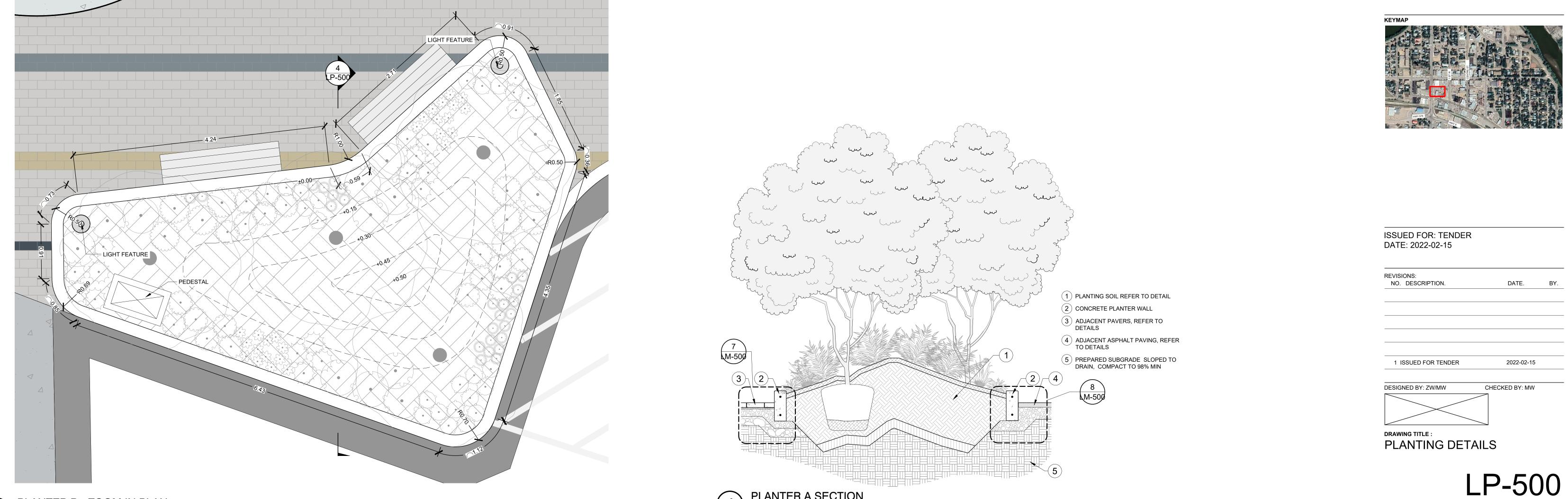
CHECKED BY: MW

SIDE VIEW

**BACK VIEW** 

TOP VIEW





PLANTER A SECTION

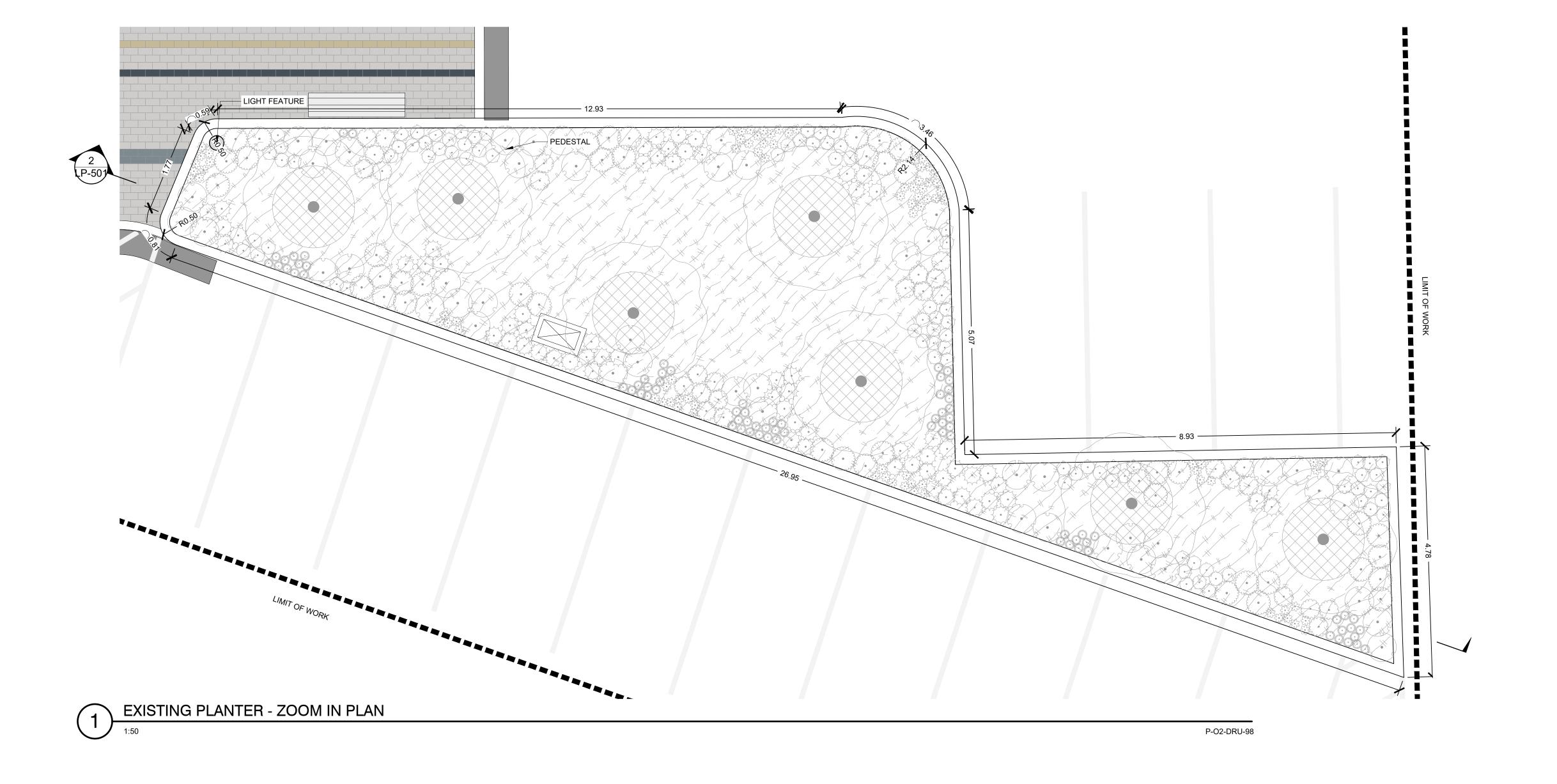
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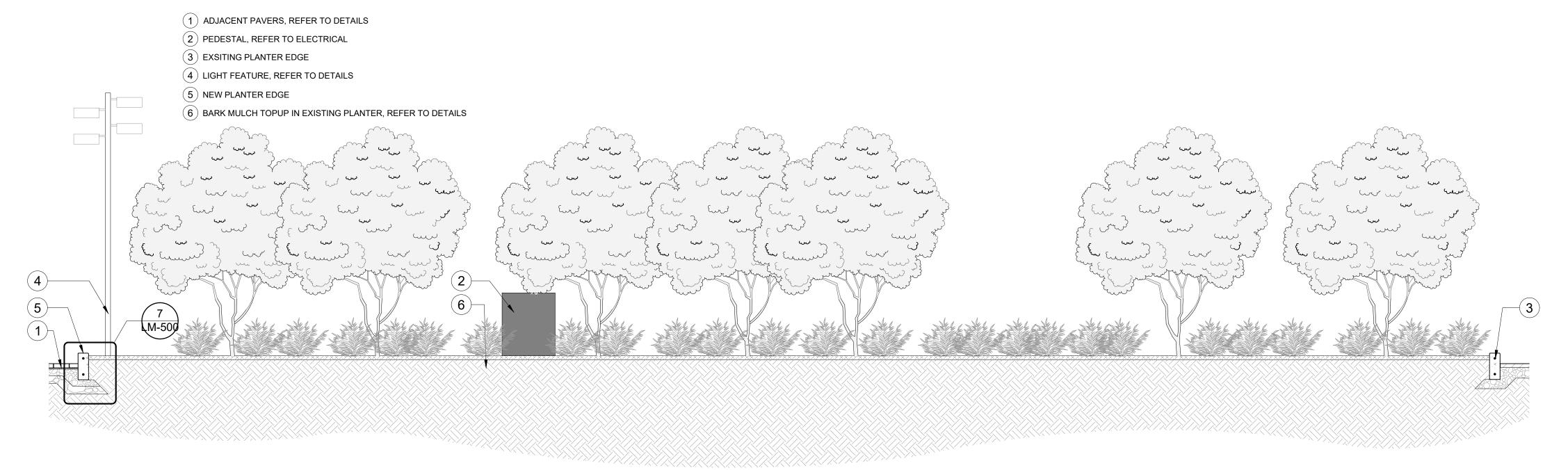
PLANTER B - ZOOM IN PLAN

1:30

DRUMHELLER DOWNTOWN PLAZA 210201

P-02-DRU-86





2 EXISTING PLANTER SECTION
1:50

P-O2-DRU-106



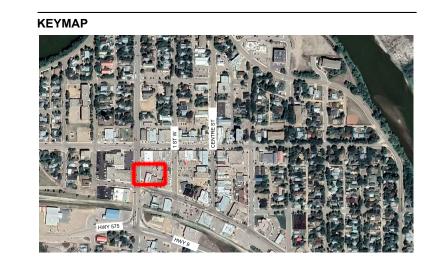
## DRUMHELLER DOWNTOWN PLAZA

FOR MUNICIPALITY OF DRUMHELLER





SEALS



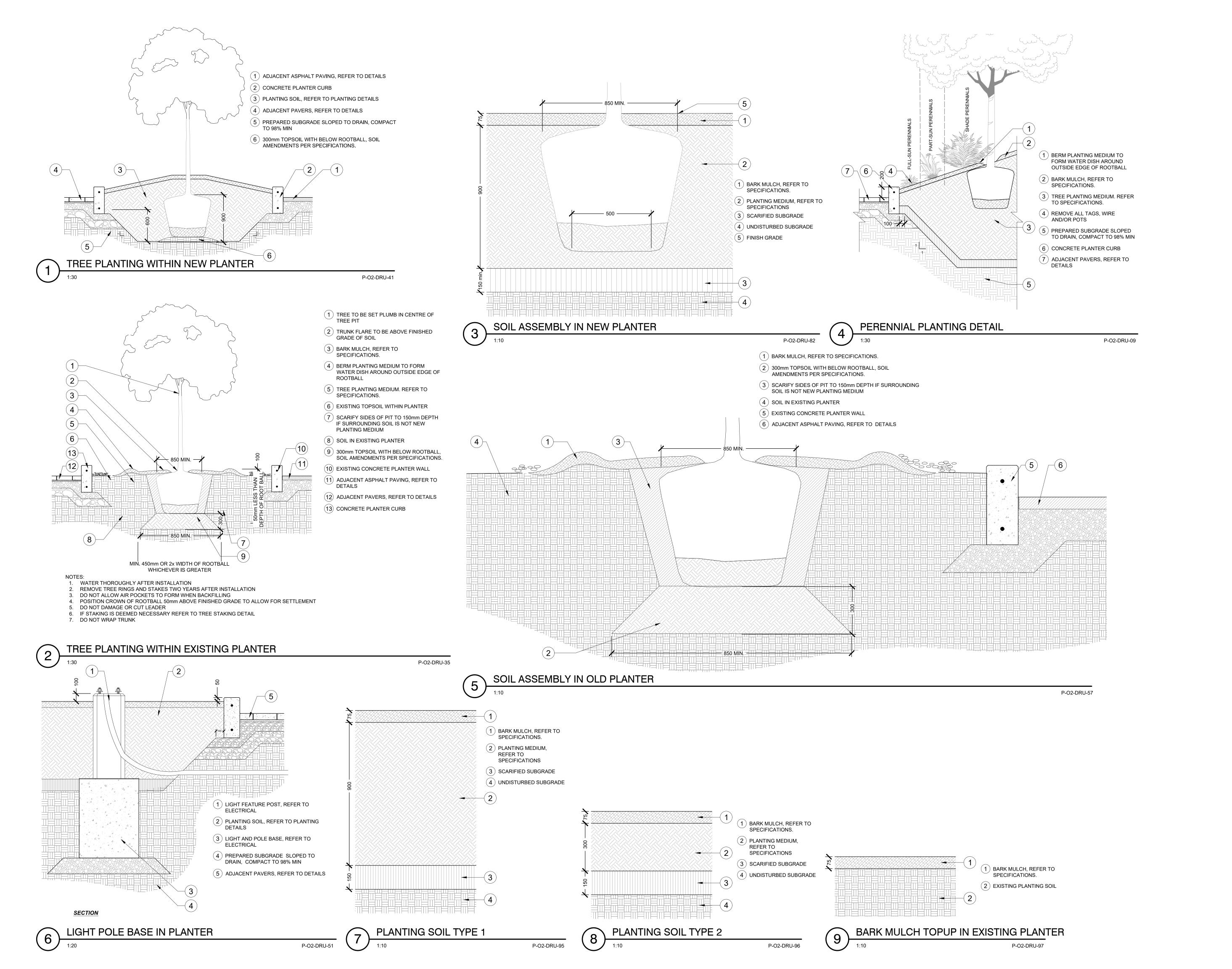
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DRAWING TITLE :
PLANTING ENLARGEMENT

LP-501





## DRUMHELLER DOWNTOWN PLAZA

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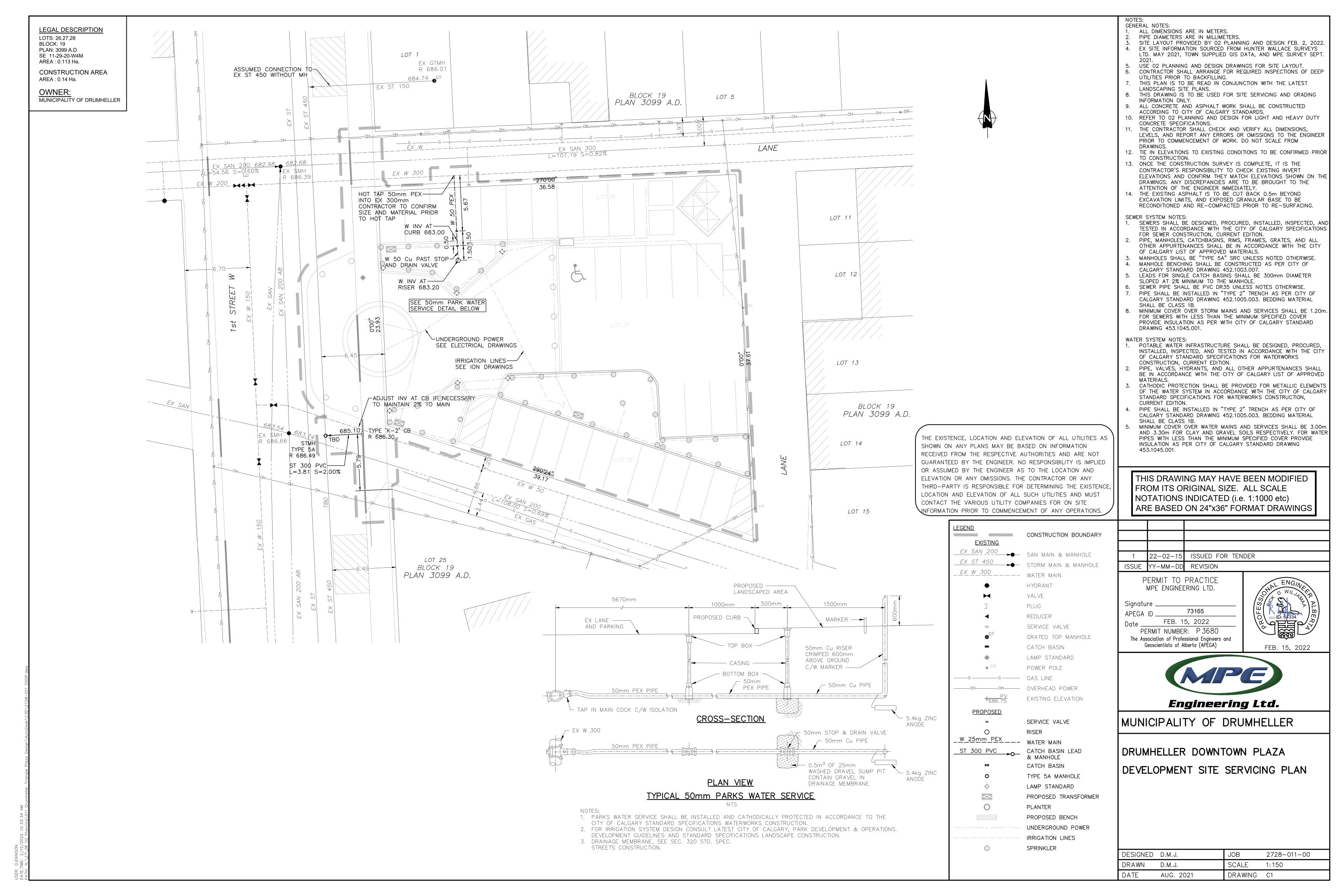


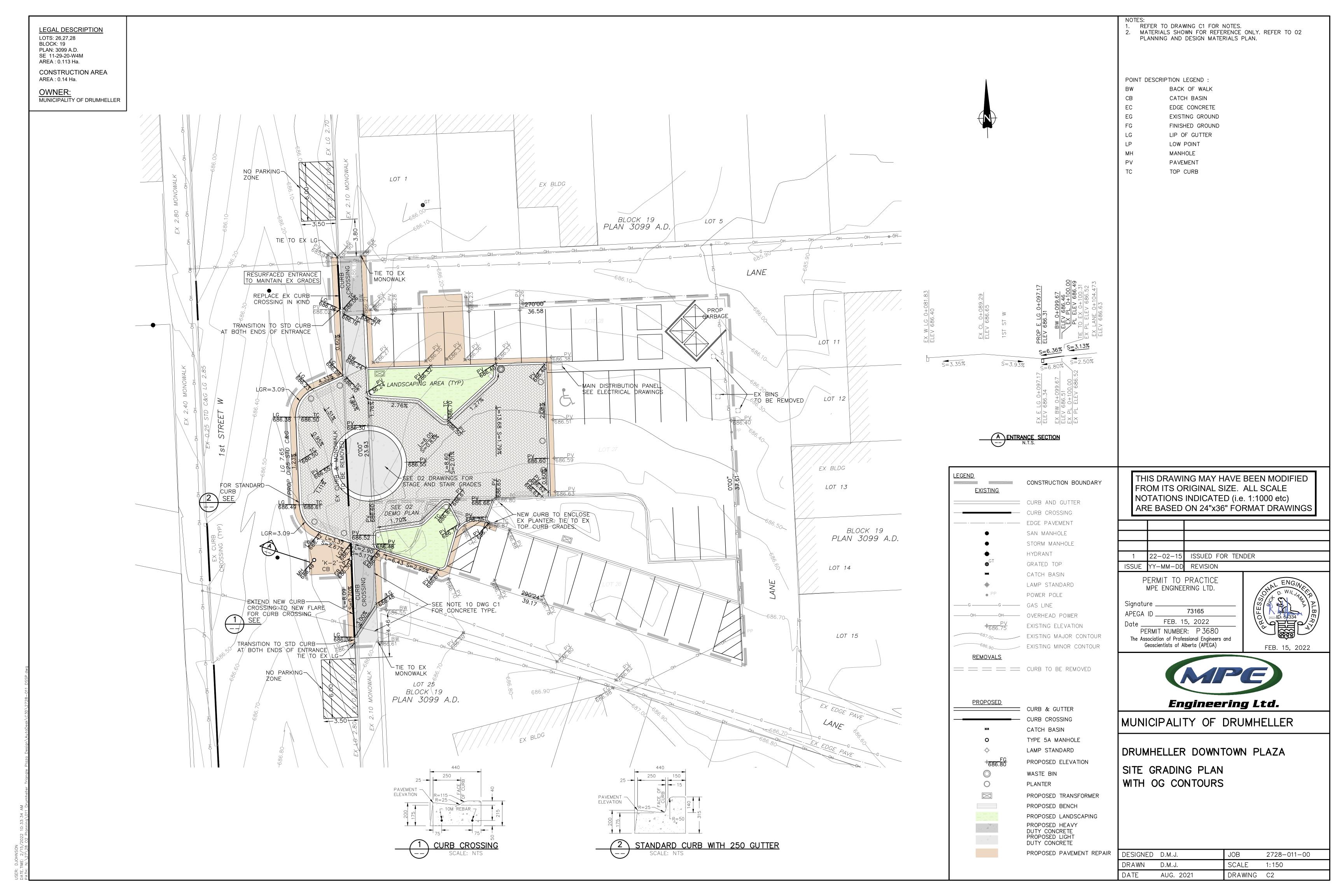
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| 1 ISSUED FOR TENDER            | 2022-02-15     |
| DESIGNED BY: ZW/MW             | CHECKED BY: MW |
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LP-502





|   | DICTRIBUTION   |                                  | DOWED CONTINUED  |   | DOWED FOUNDMENT CONTINUED  | CONI  | FROI DANEL FOLUDATAT CONTINUES   |
|---|--|----------------------------------|--|---|--|---|--|
|   | DISTRIBUTION   |                                  | POWER CONTINUED  | <br>  I   | POWER EQUIPMENT CONTINUED  | con<br>o-J/-o   | TROL PANEL EQUIPMENT CONTINUED  DRY CONTACT RELAY (NC)   |
| <u> </u>  | CONDUIT IDENTIFICATION TAG  LIGHTING/POWER PANEL   | <del>(Ω</del> M)<br>////>        | MAGNETIC MOTOR STARTER HOME RUN WITH WIRE COUNT  |   | HEATER C/W KILOWATT RATING   | o-  | DRY CONTACT RELAY (NO)   |
|   | DATA PANEL   | • <sub>WAP</sub>                 | WIRELESS ACCESS POINT  | <b>★</b>  | MOTOR CONTROL IDENTIFICATION TAG   | <b>-</b> 0  | VARIABLE RESISTOR  |
|   | INTERCOM PANEL FIRE ANNUNCIATOR PANEL  | <del>- 700000-</del>             | ELECTRICAL HEATING HEAT TRACING  |   | TRANSFER SWITCH  |   | RESISTOR   |
|   | GROUND BAR   |                                  | PIN AND SLEEVE CONNECTOR (FEMALE)  | L_~   | OF OUR TY  | TH  | THERMISTOR   |
|   | PLYWOOD BACKBOARD  | Œ                                | PIN AND SLEEVE CONNECTOR (MALE)  |   | SECURITY   | ₩ <sub>O</sub> VI   | DIODE  METAL OXIDE VARISTOR  |
|   | EXTERIOR TRANSFORMER DRY TYPE TRANSFORMER  |                                  | SWITCHES AND JUNCTIONS BOXES   | K <br>  | WALL MOUNTED SECURITY KEYPAD WALL MOUNTED CARD READER  | MOV   | METAL OXIDE VARISTOR   |
|   | METERING CABINET GREATER THAN 200A   | ₩                                | LINE VOLTAGE SWITCH  | ₩   | WALL MOUNTED MOTION SENSOR   |   | INSTRUMENTATION EQUIPMENT  |
| P   | UTILITY METER PLAN POWER METER   | <del>69</del> ₽                  | SWITCH C/W PILOT LIGHT   | H 200   | WALL MOUNTED CCTV CAMERA - FIXED WALL MOUNTED CCTV CAMERA - PAN, TILT,   | ofo   | LEVEL SWITCH (OPEN ON RISING LEVEL)  |
| M   | ELECTRIC UTILITY METER 200A AND LESS   | <del>69</del> 2                  | TWO POLE SWITCH THREE WAY SWITCH   |   | ZOOM   |   | LEVEL SWITCH (OPEN ON FALLING LEVEL)   |
| (w)<br>(G)  | WATER METER<br>GAS METER   | <del>69</del> 4                  | FOUR WAY SWITCH  |   | WALL MOUNTED CCTV CAMERA - FUTURE CEILING MOUNTED CCTV CAMERA - FIXED  | J.  | FLOW SWITCH (OPEN ON RISING FLOW)  |
|   | SPLITTER   | <del>↔</del> м                   | MANUAL MOTOR PROTECTION SWITCH C/W PILOT LIGHT   |   | CEILING MOUNTED CCTV CAMERA - PAN, TILT, ZOOM  |   | FLOW SWITCH (OPEN ON FALLING FLOW) PRESSURE SWITCH (OPEN ON RISING   |
|   | ELECTRICAL CENTRAL DISTRIBUTION PANEL (CDP)  | <del>↔</del> к                   | KEY OPERATED SWITCH - CYLINDER TYPE  |   | CEILING MOUNTED CCTV CAMERA - FUTURE   | o <u>T</u> ∘  | PRESSURE)  |
|   | ELECTRICAL MOTOR CONTROL CENTRE (MCC)  | <del>↔</del> T<br><del>↔</del> D | TIMER SWITCH<br>DIMMER SWITCH - SLIDER TYPE  | M   | MAGNETIC DOOR LOCK   | <i>₽</i> °  | PRESSURE SWITCH (OPEN ON FALLING PRESSURE)   |
|   | ELECTRICAL MAIN DISTRIBUTION BOARD TRANSFER SWITCH WITH BY-PASS  | <del>↔</del> L                   | INTERNALLY ILLUMINATED LIGHT SWITCH  | DS DS   | MAGNETIC DOOR HOLD OPEN DEVICE DOOR POSITION SWITCH (DOOR CONTACT)   | 050   | TEMPERATURE SWITCH (OPEN ON RISING TEMPERATURE)  |
|   | TRANSFER SWITCH  | <b>↔</b> R<br><del>∜</del> 1     | LOW VOLTAGE SWITCH 2 GANG SWITCH   | E   | ELECTRIC STRIKE  | ~ <u>~</u>  | TEMPERATURE SWITCH (OPEN ON FALLING TEMPERATURE)   |
| LVT<br><b>&lt;</b> ₩                              | 120/24V LOW VOLTAGE TRANSFORMER<br>WEATHER HEAD  | #                                | 3 GANG SWITCH  | BG<br>SA  | BREAK GLASS SENSOR<br>SONALERT BUZZER  | 000   | LIMIT SWITCH (NC)  |
|   |  | <b>₩</b>                         | 4 GANG SWITCH 5 GANG SWITCH  |   | COMMUNICATIONS   | ~~  | LIMIT SWITCH (NO)  |
|   | LIGHTING   | ₩                                | WALL MOUNTED PHOTOCELL   |   | WALL MOUNTED TELEPHONE OUTLET  | To  | TIME DELAY RELAY (NC)  |
| 0   | SURFACE MOUNTED LIGHT FIXTURE RECESSED LIGHT FIXTURE   |                                  | WALL MOUNTED JUNCTION BOX  |   | WALL MOUNTED TELEPHONE OUTLET WALL MOUNTED DATA OUTLET   | $\sim$  | TIME DELAY RELAY (NO)  |
|   | RECESSED LIGHT FIXTURE WITH END PLATES   | <u>기</u><br>기계                   | FLOOR MOUNTED JUNCTION BOX SQUARE CEILING MOUNTED JUNCTION BOX   | 4   | WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET   | (XXX)   | INSTRUMENTATION IDENTIFICATION TAG   |
| <b>©</b>  | SURFACE MOUNTED STRIP LIGHT FIXTURE UNDER CABINET/VALENCE STRIP LIGHT  | ①<br>①                           | THERMOSTAT   | 4   | WALL MOUNTED TELEVISION OUTLET   |   | PLC I/O  |
| 10  | FIXTURE  |                                  | NON-FUSEABLE DISCONNECT SWITCH FUSEABLE DISCONNECT SWITCH  |   | WALL MOUNTED CHIME OR BUZZER CEILING MOUNTED TELEPHONE OUTLET  | /PLC\   |  |
| α   | WALL MOUNTED CUBED LIGHT FIXTURE SURFACE MOUNTED LIGHT FIXTURE   | ⊠¬                               | COMBINATION MAGNETIC HOA STARTER   | <b>4</b>  | CEILING MOUNTED COMBINATION TELEPHONE/DATA OUTLET  | DI  | PLC/RTU DIGITAL INPUT  |
| Ø   | RECESSED LIGHT FIXTURE   | PB                               | O/H DOOR PUSH BUTTON PULL BOX  | •   | CEILING MOUNTED TELEVISION OUTLET  | PLC   | PLC/RTU DIGITAL OUTPUT   |
| ₩<br>₩  | WALL MOUNTED LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE ON   |                                  |  | <b>a</b>  | CEILING MOUNTED DATA OUTLET (No. OF OUTLETS)   | PLC   | PLC/RTU ANALOG INPUT   |
| + <b>⊠</b> EM                                     | EMERGENCY  |                                  | LIFE SAFETY  | ∭No.  | FLOOR MOUNTED DATA OUTLET (No. OF OUTLETS)   | PLC   | PLC/RTU ANALOG OUTPUT  |
| <del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del> | TRACK LIGHT C/W PENDANT HEADS<br>TRACK LIGHT C/W ADJUSTABLE HEADS  | <b>X</b>                         | CEILING MOUNTED EXIT LIGHT SINGLE FACE CEILING MOUNTED EXIT LIGHT DOUBLE FACE  | Mo.   | FLOOR MOUNTED TELEPHONE OUTLET (No. OF OUTLETS)  |   | MISCELLANEOUS AND LABELS   |
|   | BOLLARD LIGHT FIXTURE  | <b>**</b>                        |  |   | ·  |   |  |
|   | DOLE MOUNTED LIGHT CIVING  | <b>21</b> .                      | CEILING COMBINATION EXIT SIGN AND  | <b>∭</b> No.                                    | FLOOR MOUNTED TELEVISION OUTLET  | <u></u>   | REVISION NUMBER  |
| <b>←</b> □  | POLE MOUNTED LIGHT FIXTURE (ONE HEAD SHOWN)  | Ø <b>€</b>                       | ELLING COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE   |   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION   | <u></u>   | FIXTURE TYPE   |
| <b>←</b> □  |  | ₩ <b>O</b>                       | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE  | No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS)  |   |  |
| _   | (ONE HEAD SHOWN)   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE  | No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK   | <u></u>   | FIXTURE TYPE<br>MECHANICAL EQUIPMENT IDENTIFICATION TAG  |
| _   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE  | + <b>10</b>                      | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW  | No.   | (No. OF OUTLETS)  FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS)  RADIO LINK  CONTROL PANEL EQUIPMENT  |   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK   |
| _   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE  | + <b>10</b> (                    | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK   | No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO)  |   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES   |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE   | + <b>10</b>                      | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD   | No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC)   |   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK  |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN)   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY   | No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO)  |   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT  |
| _   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY   | M No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  |   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK  |
| _   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR   | No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  | - CT  | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER   |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD  | M No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  | CT U  | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE   |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR   | M No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  | CT U DW F R M   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE   |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  | M No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  | CT U DW F R   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE   |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS)   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  | CT U DW F R M G D W   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE GARBURATOR DRYER WASHER   |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD)   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER DISTRIBUTION TRANSFORMER POTENTIAL TRANSFORMER  | M No.   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  | CT U DW F R M G D   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE GARBURATOR DRYER  |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE 20A T-SLOT RECEPTACLE 20B VOLT 1PH RECEPTACLE 20B VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER POTENTIAL TRANSFORMER FUSE DRAW OUT TYPE  | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  | CT U DW F R M G D W NL GFCI IG  | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE GARBURATOR DRYER WASHER NIGHT LIGHT GROUND FAULT CIRCUIT INTERRUPTER ISOLATED GROUND  |
|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED FOURPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER POTENTIAL TRANSFORMER FUSE DRAW OUT TYPE  | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON   | CT U DW F R M G D W NL GFCI   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE GARBURATOR DRYER WASHER NIGHT LIGHT GROUND FAULT CIRCUIT INTERRUPTER  |
|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER  POTENTIAL TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE   | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  | CT U DW F R M G D W NL GFCI IG EM   | FIXTURE TYPE  MECHANICAL EQUIPMENT IDENTIFICATION TAG  KITCHEN EQUIPMENT TAG  KEY NOTES  SINGLE LINE BREAK  DOUBLE LINE BREAK  CAPPED OFF LINE OR CONDUIT  CONDUIT BREAK  CABLE TRAY  INSTALL ABOVE COUNTER  INSTALL BUILT INTO OR UNDER MILLWORK  DISH WASHER  FRIDGE  RANGE  MICROWAVE  GARBURATOR  DRYER  WASHER  NIGHT LIGHT  GROUND FAULT CIRCUIT INTERRUPTER  ISOLATED GROUND  EMERGENCY   |
|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER POTENTIAL TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED)   | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT   | CT U DW F R M G D W NL GFCI IG EM AF AT WP  | FIXTURE TYPE  MECHANICAL EQUIPMENT IDENTIFICATION TAG  KITCHEN EQUIPMENT TAG  KEY NOTES  SINGLE LINE BREAK  DOUBLE LINE BREAK  CAPPED OFF LINE OR CONDUIT  CONDUIT BREAK  CABLE TRAY  INSTALL ABOVE COUNTER  INSTALL BUILT INTO OR UNDER MILLWORK  DISH WASHER  FRIDGE  RANGE  MICROWAVE  GARBURATOR  DRYER  WASHER  NIGHT LIGHT  GROUND FAULT CIRCUIT INTERRUPTER  ISOLATED GROUND  EMERGENCY  AMP FRAME  AMP TRIP  WEATHER PROOF   |
|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH RECEPTACLE AUXILIARY RELAY CEILING MOUNTED POWER ZONE BOX   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER  DISTRIBUTION TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED) THERMAL OVERLOAD PROTECTION INTERLOCK   | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT DUPLEX RECEPTACLE   | CT U DW F R M G D W NL GFCI IG EM AF AT   | FIXTURE TYPE  MECHANICAL EQUIPMENT IDENTIFICATION TAG  KITCHEN EQUIPMENT TAG  KEY NOTES  SINGLE LINE BREAK  DOUBLE LINE BREAK  CAPPED OFF LINE OR CONDUIT  CONDUIT BREAK  CABLE TRAY  INSTALL ABOVE COUNTER  INSTALL BUILT INTO OR UNDER MILLWORK  DISH WASHER  FRIDGE  RANGE  MICROWAVE  GARBURATOR  DRYER  WASHER  NIGHT LIGHT  GROUND FAULT CIRCUIT INTERRUPTER  ISOLATED GROUND  EMERGENCY  AMP FRAME  AMP TRIP  |
|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH RECEPTACLE AUXILIARY RELAY  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER  DISTRIBUTION TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED) THERMAL OVERLOAD PROTECTION INTERLOCK CAPACITOR   |   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT DUPLEX RECEPTACLE SINGLE PHASE PLUG MAIN CONTROL PANEL FUSED TERMINAL   | CT U DW F R M G D W NL GFCI IG EM AF AT WP XP E X   | FIXTURE TYPE  MECHANICAL EQUIPMENT IDENTIFICATION TAG  KITCHEN EQUIPMENT TAG  KEY NOTES  SINGLE LINE BREAK  DOUBLE LINE BREAK  CAPPED OFF LINE OR CONDUIT  CONDUIT BREAK  CABLE TRAY  INSTALL ABOVE COUNTER  INSTALL BUILT INTO OR UNDER MILLWORK  DISH WASHER  FRIDGE  RANGE  MICROWAVE  GARBURATOR  DRYER  WASHER  NIGHT LIGHT  GROUND FAULT CIRCUIT INTERRUPTER  ISOLATED GROUND  EMERGENCY  AMP FRAME  AMP TRIP  WEATHER PROOF  EXPLOSION PROOF  EXISTING DEVICE TO REMAIN  EXISTING DEVICE TO BE REMOVED  |
|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH RECEPTACLE AUXILIARY RELAY CEILING MOUNTED POWER ZONE BOX REEL DOWN RECEPTACLE  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER  DISTRIBUTION TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED) THERMAL OVERLOAD PROTECTION INTERLOCK CAPACITOR CURRENT METER CONTACTOR   | No.  No.  O O O O O O O O O O O O O O O O O O O | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT DUPLEX RECEPTACLE SINGLE PHASE PLUG   | CT U DW F R M G D W NL GFCI IG EM AF AT WP XP E   | FIXTURE TYPE  MECHANICAL EQUIPMENT IDENTIFICATION TAG  KITCHEN EQUIPMENT TAG  KEY NOTES  SINGLE LINE BREAK  DOUBLE LINE BREAK  CAPPED OFF LINE OR CONDUIT  CONDUIT BREAK  CABLE TRAY  INSTALL ABOVE COUNTER  INSTALL BUILT INTO OR UNDER MILLWORK  DISH WASHER  FRIDGE  RANGE  MICROWAVE  GARBURATOR  DRYER  WASHER  NIGHT LIGHT  GROUND FAULT CIRCUIT INTERRUPTER  ISOLATED GROUND  EMERGENCY  AMP FRAME  AMP TRIP  WEATHER PROOF  EXPLOSION PROOF  EXISTING DEVICE TO REMAIN   |
|   | POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH RECEPTACLE AUXILIARY RELAY CEILING MOUNTED POWER ZONE BOX REEL DOWN RECEPTACLE FLOOR MOUNTED DUPLEX RECEPTACLE FLOOR MOUNTED FOURPLEX   |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER  DISTRIBUTION TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED) THERMAL OVERLOAD PROTECTION INTERLOCK CAPACITOR CURRENT METER CONTACTOR FUSE  |   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT DUPLEX RECEPTACLE SINGLE PHASE PLUG MAIN CONTROL PANEL FUSED TERMINAL BLOCK AUXILIARY FUSED TERMINAL BLOCK CIRCUIT BREAKER  | CT U DW F R M G D W NL GFCI IG EM AF AT WP XP E X ER  | FIXTURE TYPE  MECHANICAL EQUIPMENT IDENTIFICATION TAG  KITCHEN EQUIPMENT TAG  KEY NOTES  SINGLE LINE BREAK  DOUBLE LINE BREAK  CAPPED OFF LINE OR CONDUIT  CONDUIT BREAK  CABLE TRAY  INSTALL ABOVE COUNTER  INSTALL BUILT INTO OR UNDER MILLWORK  DISH WASHER  FRIDGE  RANGE  MICROWAVE  GARBURATOR  DRYER  WASHER  NIGHT LIGHT  GROUND FAULT CIRCUIT INTERRUPTER  ISOLATED GROUND  EMERGENCY  AMP FRAME  AMP TRIP  WEATHER PROOF  EXPLOSION PROOF  EXISTING DEVICE TO BE REMOVED  EXISTING DEVICE TO BE RELOCATED  RELOCATED DEVICE  WIRE COUNT  |
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|   | ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE FOURPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE 20B VOLT 1PH RECEPTACLE 20B VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH RECEPTACLE AUXILIARY RELAY CEILING MOUNTED DUPLEX RECEPTACLE PACK POLE FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED SONNECT SWITCH MOTOR WITH FUSIBLE DISCONNECT SWITCH MOTOR WITH FUSIBLE DISCONNECT |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER POTENTIAL TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED) THERMAL OVERLOAD PROTECTION INTERLOCK CAPACITOR CURRENT METER CONTACTOR FUSE DISCONNECT SWITCH  **CIRCUIT FRAME SIZE TRIP RATING  |   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT DUPLEX RECEPTACLE SINGLE PHASE PLUG MAIN CONTROL PANEL FUSED TERMINAL BLOCK AUXILIARY FUSED TERMINAL BLOCK CIRCUIT BREAKER MAIN CONTROL PANEL TERMINAL BLOCK PLC/RTU TERMINAL AUXILIARY TERMINAL BLOCK DEVICE TERMINAL BLOCK DRY CONTACT RELAY  | CT U DW F R M G D W NL GFCI IG EM AF AT WP XP E X ER RD H   | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE GARBURATOR DRYER WASHER NIGHT LIGHT GROUND FAULT CIRCUIT INTERRUPTER ISOLATED GROUND EMERGENCY AMP FRAME AMP TRIP WEATHER PROOF EXPLOSION PROOF EXISTING DEVICE TO BE REMOVED EXISTING DEVICE TO BE RELOCATED RELOCATED DEVICE WIRE COUNT CONDUIT RUN UP CONDUIT RUN UP CONDUIT RUN DOWN OVERHEAD POWER UNDERGROUND CONDUCTOR/CONDUIT FLEXIBLE CONDUIT    |
|   | (ONE HEAD SHOWN) WALL MOUNTED HID LIGHT FIXTURE  POWER  DUPLEX RECEPTACLE SPLIT FEED RECEPTACLE SPLIT FEED RECEPTACLE SWITCHED DUPLEX RECEPTACLE SWITCHED DUPLEX RECEPTACLE 20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE 208 VOLT 1PH RECEPTACLE 208 VOLT 3PH RECEPTACLE WALL MOUNTED USB PORT PEDESTAL DUPLEX RECEPTACLE WALL MOUNTED MULTI-GANG BOX WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS) WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD) CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED FOURPLEX RECEPTACLE CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED POWER ZONE BOX REEL DOWN RECEPTACLE PACK POLE FLOOR MOUNTED POUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED POWER ZONE BOX REEL DOWN RECEPTACLE PACK POLE FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS) FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE FLOOR MOUNTED MULTI-GANG BOX MOTOR MOTOR WITH DISCONNECT SWITCH MOTOR WITH FUSIBLE DISCONNECT SWITCH  |                                  | EMERGENCY LIGHT C/W BATTERY WALL MOUNTED EXIT LIGHT SINGLE FACE WALL MOUNTED EXIT LIGHT DOUBLE FACE WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY EXIT LIGHT DIRECTIONAL ARROW WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD CEILING MOUNTED EMERGENCY LIGHTING PECESSED REMOTE HEAD WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD SMOKE DETECTOR SMOKE ALARM  POWER EQUIPMENT  DELTA WYE TRANSFORMER POTENTIAL TRANSFORMER FUSE DRAW OUT TYPE CIRCUIT BREAKER DRAW OUT TYPE 3 PHASE GENERATOR (GROUNDED) THERMAL OVERLOAD PROTECTION INTERLOCK CAPACITOR CURRENT METER CONTACTOR FUSE DISCONNECT SWITCH FUSED DISCONNECT SWITCH XX CIRCUIT FRAME SIZE TRIP RATING POLE ELAPSED TIME METER  |   | (No. OF OUTLETS) FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS) RADIO LINK  CONTROL PANEL EQUIPMENT  RESET PUSH BUTTON (NO) RESET PUSH BUTTON (NC) MUSHROOM HEAD STOP  3 POSITION SELECTOR SWITCH  HAND-OFF-AUTO SELECTOR SWITCH  UP-OFF-DOWN SELECTOR SWITCH  RESET PUSH BUTTON AMBER PILOT LIGHT GREEN PILOT LIGHT RED PILOT LIGHT RED PILOT LIGHT DUPLEX RECEPTACLE SINGLE PHASE PLUG MAIN CONTROL PANEL FUSED TERMINAL BLOCK AUXILIARY FUSED TERMINAL BLOCK CIRCUIT BREAKER MAIN CONTROL PANEL TERMINAL BLOCK PLC/RTU TERMINAL AUXILIARY TERMINAL AUXILIARY TERMINAL BLOCK MCC/VFD TERMINAL BLOCK DEVICE TERMINAL BLOCK DEVICE TERMINAL BLOCK DRY CONTACT RELAY  TIME DELAY RELAY  | CT U DW F R M G D W NL GFCI IG EM AF AT WP XP E X ER RD H O UG                                      | FIXTURE TYPE MECHANICAL EQUIPMENT IDENTIFICATION TAG KITCHEN EQUIPMENT TAG KEY NOTES SINGLE LINE BREAK DOUBLE LINE BREAK CAPPED OFF LINE OR CONDUIT CONDUIT BREAK CABLE TRAY INSTALL ABOVE COUNTER INSTALL BUILT INTO OR UNDER MILLWORK DISH WASHER FRIDGE RANGE MICROWAVE GARBURATOR DRYER WASHER NIGHT LIGHT GROUND FAULT CIRCUIT INTERRUPTER ISOLATED GROUND EMERGENCY AMP FRAME AMP TRIP WEATHER PROOF EXISTING DEVICE TO BE REMOVED EXISTING DEVICE TO BE RELOCATED RELOCATED DEVICE WIRE COUNT CONDUIT RUN UP CONDUIT RUN UP CONDUIT RUN DOWN OVERHEAD POWER UNDERGROUND CONDUCTOR/CONDUIT FLEXIBLE CONDUIT EXISTING EQUIPMENT |
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THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

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The Association of Professional Engineers and Geoscientists of Alberta (APEGA)





MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL
ELECTRICAL LEGEND

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATF     | JANUARY 2022   | DRAWING | E0.1        |

BASIC ELECTRIC REQUIREMENTS

1. REGULATORY REQUIREMENTS

- 1.1. COMPLY WITH SAFETY CODES ACT AND RULES AND REGULATIONS MADE PURSUANT THERE TO INCLUDING THE CANADIAN ELECTRICAL CODE.
- 1.2. RECORD ACTUAL LOCATIONS AT ALL PULL BOXES, PANEL BOARDS, LUMINARIES, FEEDERS, ELECTRICAL EQUIPMENT AND ELECTRICAL SITE SERVICES.

- 2.1. DURING START-UP ASSIST OWNER'S REPRESENTATIVE IN DEBUGGING SYSTEM OPERATION AND CORRECT ANY DEFICIENCIES AND OMISSIONS WHICH APPEAR. 3. ELECTRICAL IDENTIFICATION
- 3.1. LAMACOID NAMEPLATES: 3mm THICK PLASTIC ENGRAVING SHEET, BLACK FACE,
  - WHITE CORE, MECHANICALLY ATTACHED, SIZES AS FOLLOWS: 3.1.1. SIZE 1: 12mm HIGH WITH 5mm HIGH LETTERS.
  - 3.1.2. SIZE 2: 20mm HIGH WITH 8mm HIGH LETTERS
- 3.1.3. SIZE 3: 25mm HIGH WITH 12mm HIGH LETTERS.
- 3.2. COLOUR IDENTIFICATION OF WIRING:
- 3.2.1. IDENTIFY No.2 AWG WIRING AND SMALLER BY CONTINUOUS INSULATION
- 3.2.2. IDENTIFY WIRING LARGER THAN No.2 AWG BY CONTINUOUS INSULATION COLOUR OR BY COLOUR BANDING TAPE APPLIED AT EACH END AND AT
- 3.2.3. MAINTAIN PHASE SEQUENCE AND COLOUR CODING THROUGHOUT EACH
- 3.3. COLOUR CODING SHALL BE IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE, AND AS FOLLOWS:

COLOUR

VOLTAGE 1. 120/208 V 3 PHASE: RED, BLACK AND BLUE

2. 120/208 V EMERGENCY: RED, BLACK AND BLUE WITH YELLOW TRACER

#### 3.4. EQUIPMENT IDENTIFICATION SCHEDULE

|     | EQUIPMENT  | SIZE |
|-----|--|------|
| .1  | MCCS   | 3    |
| .2  | ALL COMPARTMENTS ON MCCS   | 2    |
| .3  | LBTS   | 1    |
| .4  | HOA SWITCHES FOR EXHAUST FANS  | 1    |
| .5  | THERMOSTATS AND DEHUMIDISTATS  | 1    |
| .6  | ALL INSTRUMENTS AND EQUIPMENT SMALLER THAN 300mmx300mmx300mm, LISTED IN SECTION 13312 AND P&I DRAWINGS | 1    |
| .7  | ALL INSTRUMENTS AND EQUIPMENT SMALLER THAN 300mmx300mmx300mm, LISTED IN SECTION 13312 AND P&I DRAWINGS | 2    |
| .8  | ALL HVAC EQUIPMENT   | 3    |
| .9  | ALL ELECTRICAL PANELS  | 2    |
| .10 | JUNCTION BOXES OVER 100mmx100mm  | 1    |

3.5. WIRE IDENTIFICATION

3.5.1. POWER WIRING FROM ELECTRICAL PANELS TO BE LABELED WITH PANEL IDENTIFICATION AND CIRCUIT NUMBER (EG: PNL A1 CCT 7).

3.5.2. CONTROL WIRING TO BE LABELED WITH TERMINAL LABELS AS SHOWN ON PLC WIRING DIAGRAMS (EG: F301, 301C, F1203, 1203, F144, 144N, F152, 152R)

- 4.1. ALL WIRING TO BE RUN IN CONDUIT. TECK CABLE CAN BE AN ALTERNATIVE TO CONDUIT AND WIRE. TECK CABLE TO BE INSTALLED IN TRAY OR OTHER
- EQUIVALENT SUPPORT. 4.2. BUILDING WIRE TO CSA C22.2 No. 75-M1983, COPPER CONDUCTOR, 600V RW90
- X-LINK INSULATION. USE IN ALL LOCATIONS.
- 4.3. TECK 90 CABLE TO CSA C22.2 No.131-M89
- 4.4. WIRE SIZES ACCORDING TO CEC EXCEPT WHERE OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE AWG 12 FOR POWER CIRCUITS.
- 4.5. DO NOT USE METALLIC OR NONMETALLIC SHEATHED CABLES OR WIRE WITH ALUMINUM CONDUCTORS, EXCEPT WHERE SPECIFIED OR INDICATED ON DRAWINGS.
- 4.6. REMOTE CONTROL AND SIGNAL CABLE: 4.6.1. CONDUCTOR: COPPER

  - 4.6.2. INSULATION: 300V INSULATION, RATED 60° C 4.6.3. CONFIGURATION: INDIVIDUAL CONDUCTORS COVERED WITH A PVC JACKET.

CONDUIT

- 5.1. INSTALLATION ON CONDUIT, GENERAL
  - 5.1.1. FOR EXISTING BUILDINGS AND NEW PRE-FABRICATED BUILDINGS, CONDUIT SHALL BE SURFACE MOUNTED ON WALLS AND CEILINGS.
  - 5.1.2. FOR NEW BUILDINGS WITH MASONRY EXTERNAL WALLS, CONDUIT CAN BE SURFACE MOUNTED TO THE INTERIOR OR THE WALL. FOR INTERNAL STUDDED WALLS, CONDUIT IS TO BE CONCEALED IN THE WALL.
  - 5.1.3. CONDUIT ON THE OUTER EXTERIOR WALLS IS TO BE AVOIDED. WHERE CONDUIT IS NECESSARY ON THE OUTER EXTERIOR, THE AMOUNT IS TO BE
  - 5.1.4. CONDUIT SYSTEM SHALL BE WEATHERPROOF FOR OUTDOOR AREAS AND FOR INDOOR AREAS WITH PROCESS PIPING.
  - 5.1.5. EMT WITH RAINTIGHT FITTINGS WILL BE ALLOWED WEHRE IT IS NOT SUBJECT OT MECHANICAL INJURY SUCH AS ALONG WALLS AND ABOVE 1200mm FROM WALKWAY SURFACE. WHERE A CONDUIT MAY BE STEPPED ON OR BUMPED DURING TYPICAL OPERATION AND MAINTENANCE, RIGID METAL CONDUIT SHALL BE USED.
  - 5.1.6. CONDUIT SHALL BE RIGID PIPE WITH PROPER SUPPORT EXCEPT FOR FINAL CONNECTION TO FIELD INSTRUMENTS. THE FINAL 500mm CONDUIT CONNECTION INTO FIELD INSTRUMENTS AND EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METAL. THIS IS TO ALLOW EASY DISCONNECTION AND REPLACEMENT OF THE DEVICE WHEN REQUIRED.
  - 5.1.7. PLUG CONDUIT ENDS TO PREVENT ENTRY OF DIRT AND MOISTURE.
  - 5.1.8. SEAL CONDUIT WITH DUCT SEAL COMPOUND OR FIBERGLASS WHERE CONDUIT LEAVES HEATED AREA AND ENTERS UNHEATED AREA.
  - 5.1.9. PROVIDE NECESSARY FLASHING AND PITCHPOCKETS, MAKING WATERTIGHT JOINTS WHERE CONDUIT PASSES THROUGH ROOF OR WATERPROOFING
  - 5.1.10. WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS, INSTALL EXPANSION FITTING APPROVED BY AUTHORITY HAVING JURISDICTION, COMPLETE WITH GROUNDING JUMPER. PROVIDE BEND OR OFFSET IN CONDUIT ADJACENT TO BUILDING EXPANSION JOINT WHERE CONDUIT IS INSTALLED ABOVE SUSPENDED

5.2. INSTALLATION OF NON-METALLIC CONDUIT

- 5.2.1. MAKE FIELD BENDS AND SOLVENT CEMENTED JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 5.3. INSTALLATION OF EXPOSED AND SEMI-CONCEALED CONDUIT
- 5.3.1. INSTALL CONDUIT TO CONSERVE HEADROOM AND CAUSE MINIMUM
- INTERFERENCE IN SPACES THROUGH WHICH CONDUIT PASSES. 5.3.2. INSTALL CONDUIT SO AS NOT TO INTERFERE WITH CEILING INSERTS,
- LUMINARIES OR VENTILATION DUCTS OR OUTLETS.
- 5.3.3. ALTER ROUTING TO AVOID STRUCTURAL OBSTRUCTIONS, KEEPING CROSSOVERS TO A MINIMUM. 5.3.4. INSTALL EXPOSED CONDUIT AND EXTENSIONS FROM CONCEALED CONDUIT
- SYSTEMS NEATLY, PARALLEL WITH, OR AT RIGHT ANGLES TO WALLS AND STRUCTURAL MEMBERS. 5.3.5. RUN CONDUIT FOR OUTLETS ON WATERPROOF WALLS EXPOSED. SET
- ANCHORS FOR SUPPORTING CONDUIT ON WATERPROOF WALL IN WATERPROOF CEMENT.
- 5.3.6. WHERE PRACTICABLE, INSTALL CONDUIT CONCEALED IN WALLS, FLOORS, CEILINGS AND ABOVE SUSPENDED CEILING AND UNDER GROUND.

6. SERVICE AND DISTRIBUTION

- 6.1. PANEL BOARDS: TO CSA C22.2 No. 29-M1989. WITH CIRCUITS, AMPERAGE, VOLTAGE, PHASES AND BRANCH BREAKERS AS INDICATED ON DRAWINGS.
- 6.2. BREAKERS: BOLT-ON TYPE. 7. CONTROL AND INSTRUMENTATION

7.1. INSTRUMENT TAGGING

- 7.1.1. PROVIDE EACH INSTRUMENT WITH A TAG STAMPED OR ENGRAVED WITH THE INSTRUMENT NUMBER.
- 7.1.2. TAGS TO BE BRASS, STEEL OR LAMINATED PLASTIC.
- 7.1.3. AFFIX TAGS TO INSTRUMENTS WITH STRANDED STAINLESS-STEEL WIRE OR ADHESIVE. DO NOT USE ADHESIVE ON CURVED SURFACES.

8. INSTRUMENT WIRING

8.1. WIRE AND CABLE

- 8.1.1. WIRE FOR 120 VAC CONTROL TO BE A MINIMUM AWG 16 TEW STRANDED.
- 8.1.2. ALL CONTROL WIRES SHALL BE COLOUR CODED AS FOLLOWS:
  - 120 VAC HOT BLACK
  - 120 VAC NEUTRAL WHITE
  - 24 VDC POSITIVE- RED 24 VDC NEGATIVE - BLUE
- GROUND GREEN

8.2. CABLE LABELING

- 8.2.1. LABEL EACH CABLE WHERE IT ENTERS A PANEL OR INSTRUMENT WITH MACHINE-PRINTED HEAT SHRINK TAG.
- 8.2.2. WRITE ON LABELS ARE NOT ACCEPTABLE.

8.3. CONDUCTOR LABELING

- 8.3.1. CONDUCTORS TO BE LABELED AT EACH END BY MACHINE PRINTED HEAT-SHRINK LABELS.
- 8.3.2. WRITE ON LABELS ARE NOT ACCEPTABLE.

8.4. TERMINATION OF CONDUCTORS

- 8.4.1. FOR ALL CONDUCTORS No.18 AWG OR SMALLER, FERRULES SHALL BE USED FOR TERMINATIONS.
- 8.4.2. WHERE SPARE CONDUCTORS ARE PULLED INTO AN INSTRUMENT, JUNCTION
- BOX OR CONTROL PANEL THE CONDUCTORS SHALL BE LEFT LONG ENOUGH TO REACH ANY TERMINAL WITHIN THE ENCLOSURE. THE SPARE CONDUCTORS WITHIN A JUNCTION BOX OR CONTROL PANEL SHALL BE LABELED WITH CABLE DESTINATION AND TIED BACK.
- 9. CONTROL PANEL/INSTRUMENTATION

9.1. AS PER BILL OF MATERIALS

9.2. SHORTING BARS TO BE USED FOR JUMPERING. WIRE JUMPERS ARE NOT

ACCEPTABLE.

- 9.3. TERMINAL LABELING:
- 9.3.1. EACH TERMINAL TO BE LABELED WITH SNAP ON PLASTIC TAGS, PHOENIX CONTACT UC-TM TYPE.
- 9.3.2. ALL PANEL MOUNTED DEVICES TO BE LABELED BY MEANS OF ENGRAVED LAMACOID LABELS, WHITE LETTERING ON BACK
- 9.3.3. WRITE ON LABELS ARE NOT ACCEPTABLE.

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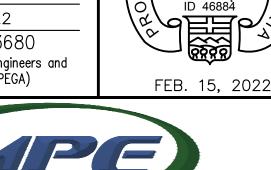
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Signature \_ 46884 APEGA ID \_ Date \_

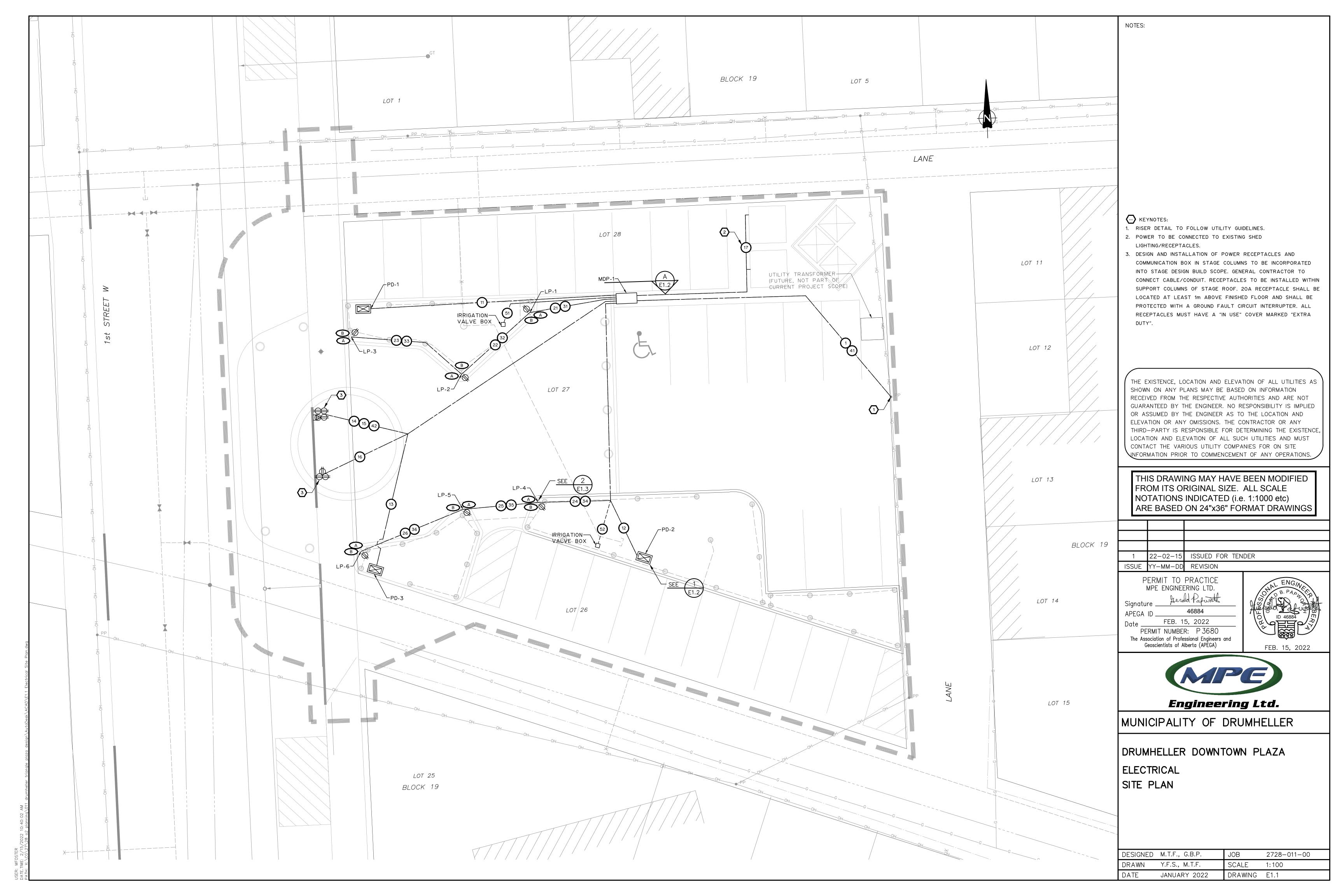
FEB. 15, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

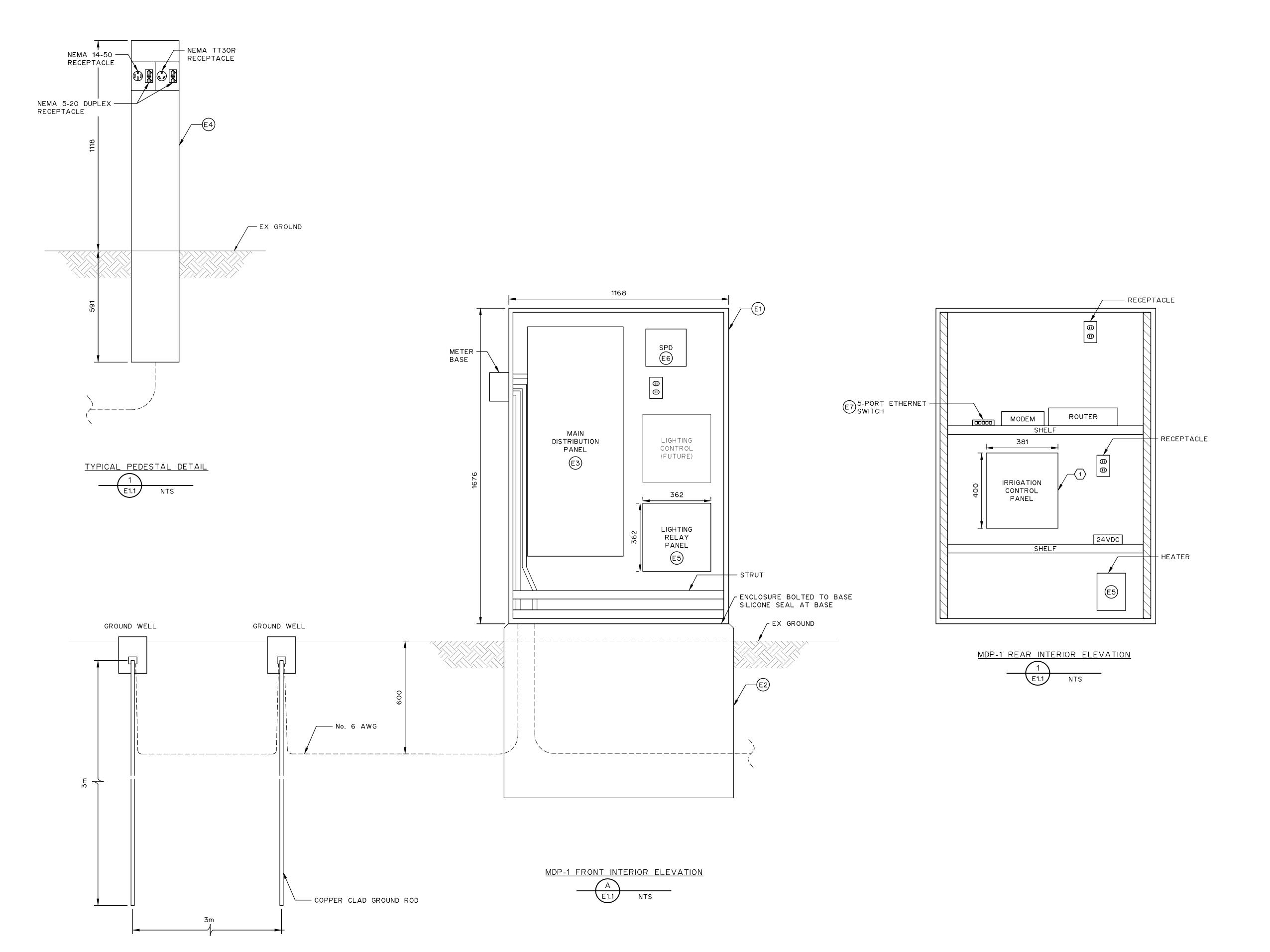


Engineering Ltd. MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA ELECTRICAL SPECIFICATIONS

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATE     | JANUARY 2022   | DRAWING | E0.2        |





- ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS.
- 2. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS OTHERWISE
- 3. MAIN DISTRIBUTION PANEL TO INCLUDE THE FOLLOWING:FOAM BOARD INSULATION ON CEILING, FLOOR, AND INTERIOR
  - INTERIOR LIGHT FOR EACH SIDE CONTROLLED BY RESPECTIVE DOOR SWITCH.

--> KEYNOTES:

1. IRRIGATION CONTROLLER PROVIDED BY OTHERS.

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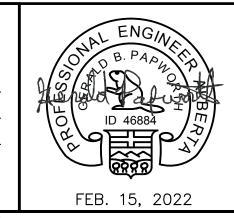
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|   | 1     | 22-02-15 | ISSUED FOR TENDER |
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Date FEB. 15, 2022

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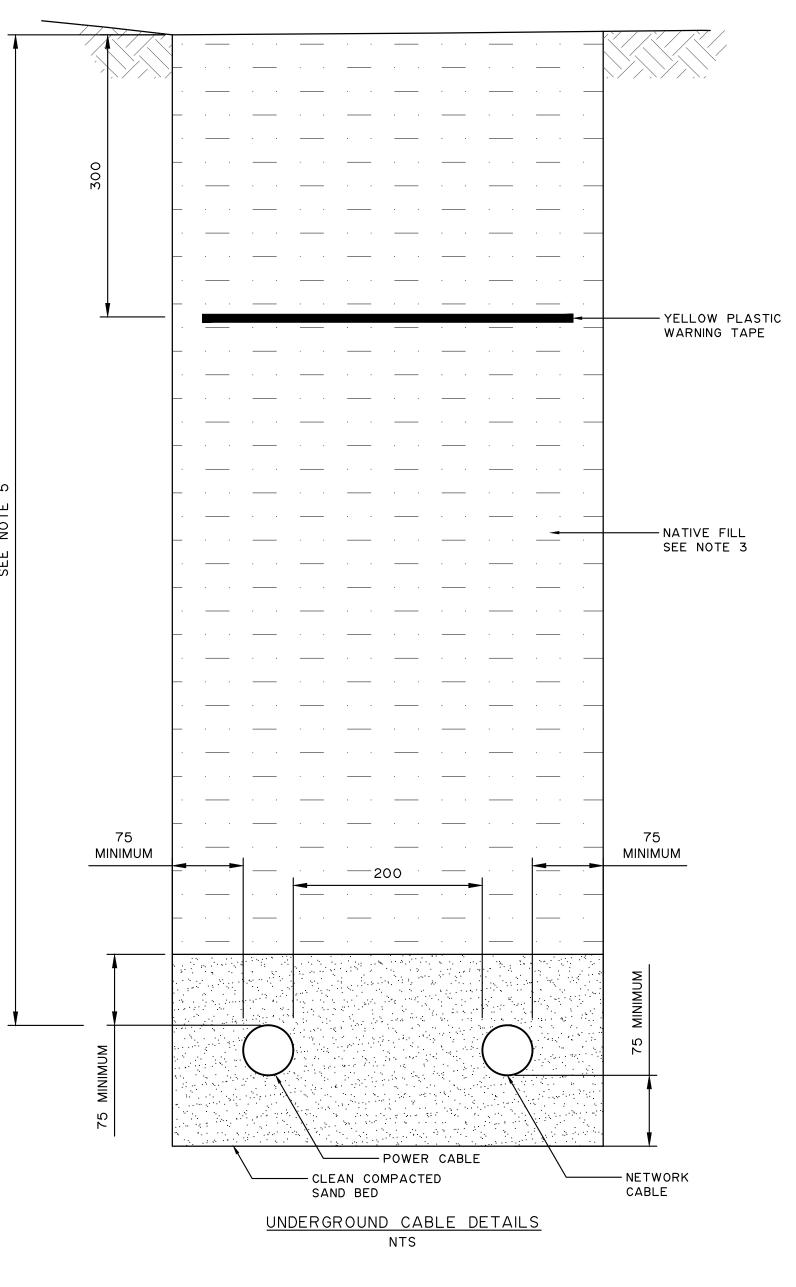


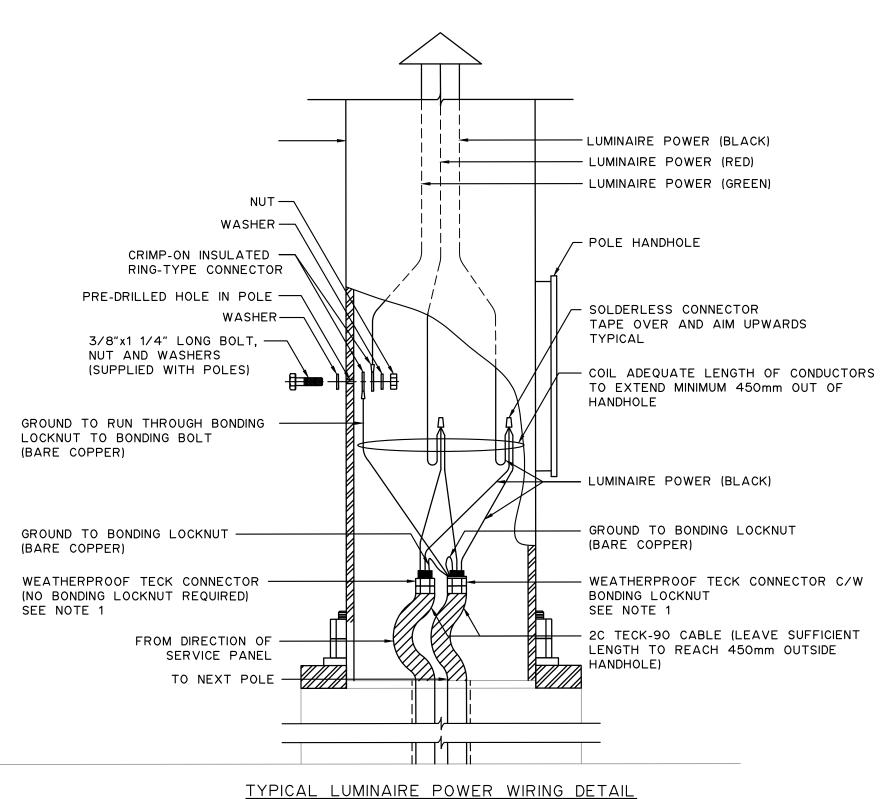
## Engineering Ltd.

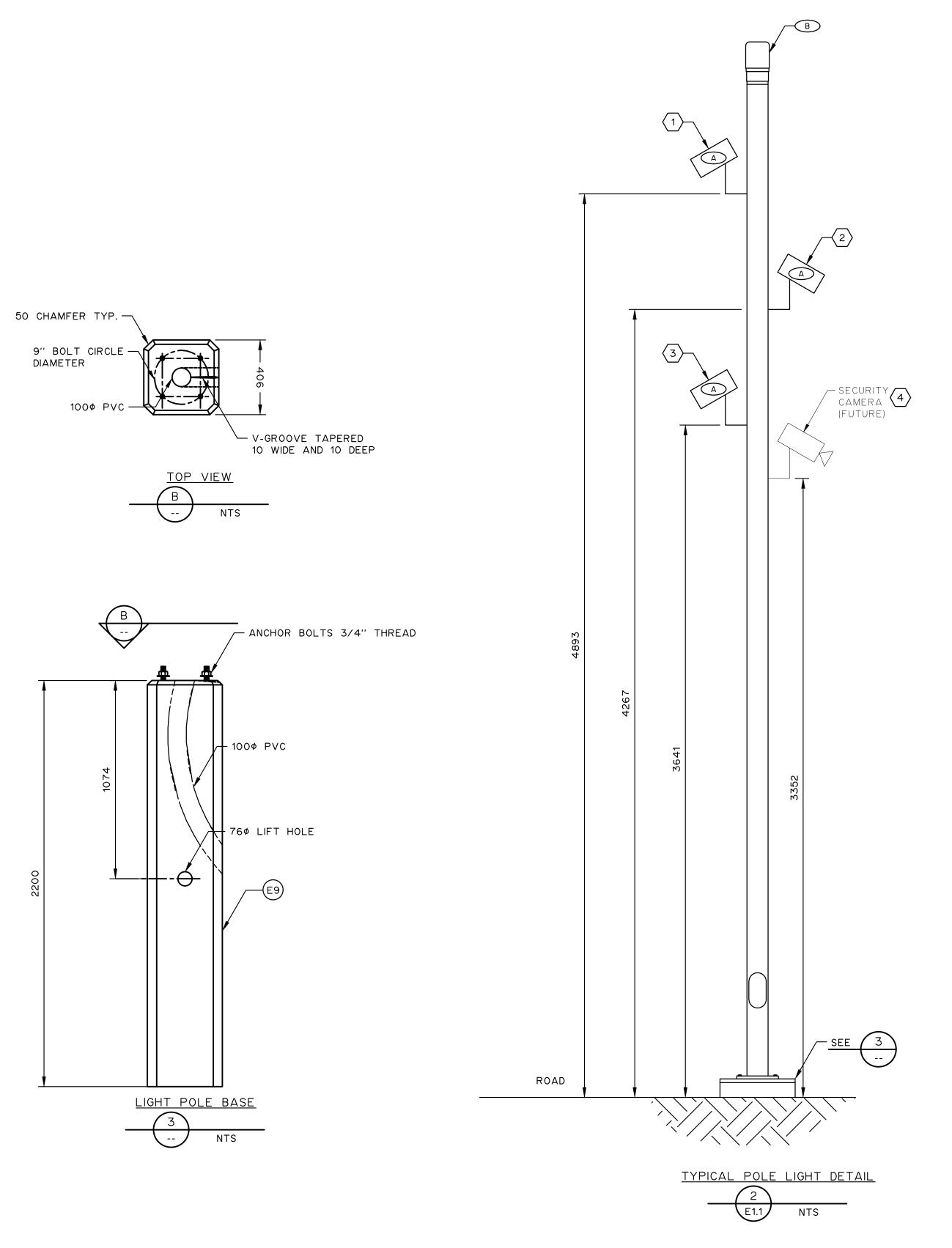
## MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL
MAIN DISTRIBUTION PANEL AND
PEDESTAL LAYOUT

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATF     | JANUARY 2022   | DRAWING | E1.2        |







- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. CONTRACTOR TO CONFIRM ALL CASINGS AND CABLE.
- 3. THE NATIVE FILL SHOULD BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 4. BURIED CONDUIT SHALL NOT CROSS EACH OTHER.
- 5. MINIMUM DEPTH 1000. DEPTH IS TO FINAL GRADE.
- 6. FOR MULTIPLE CABLES OF EACH TYPE, SEPARATE CABLES BY TWO DIAMETERS OF THE LARGER CABLE.

--> KEYNOTES:

- 1. FIXTURE TO BE MOUNTED AT 16' WITH AN ANGULAR POSITION OF O DEGREES. SEE PRODUCT DATA SHEET FOR MORE DETAILS.
- 2. FIXTURE TO BE MOUNTED AT 14' WITH AN ANGULAR POSITION OF 57.5 DEGREES. SEE PRODUCT DATA SHEET FOR MORE DETAILS.
- 3. FIXTURE TO BE MOUNTED AT 12' WITH AN ANGULAR POSITION OF
- 292.5 DEGREES. SEE PRODUCT DATA SHEET FOR MORE DETAILS.
- 4. SECURITY CAMERA ONLY TO BE INSTALLED ON TWO LIGHT POLES.

THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc) ARE BASED ON 24"x36" FORMAT DRAWINGS

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APEGA ID 46884

Date FEB. 15, 2022

PERMIT NUMBER: P 3680

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

FEB. 15, 2022



### MUNICIPALITY OF DRUMHELLER

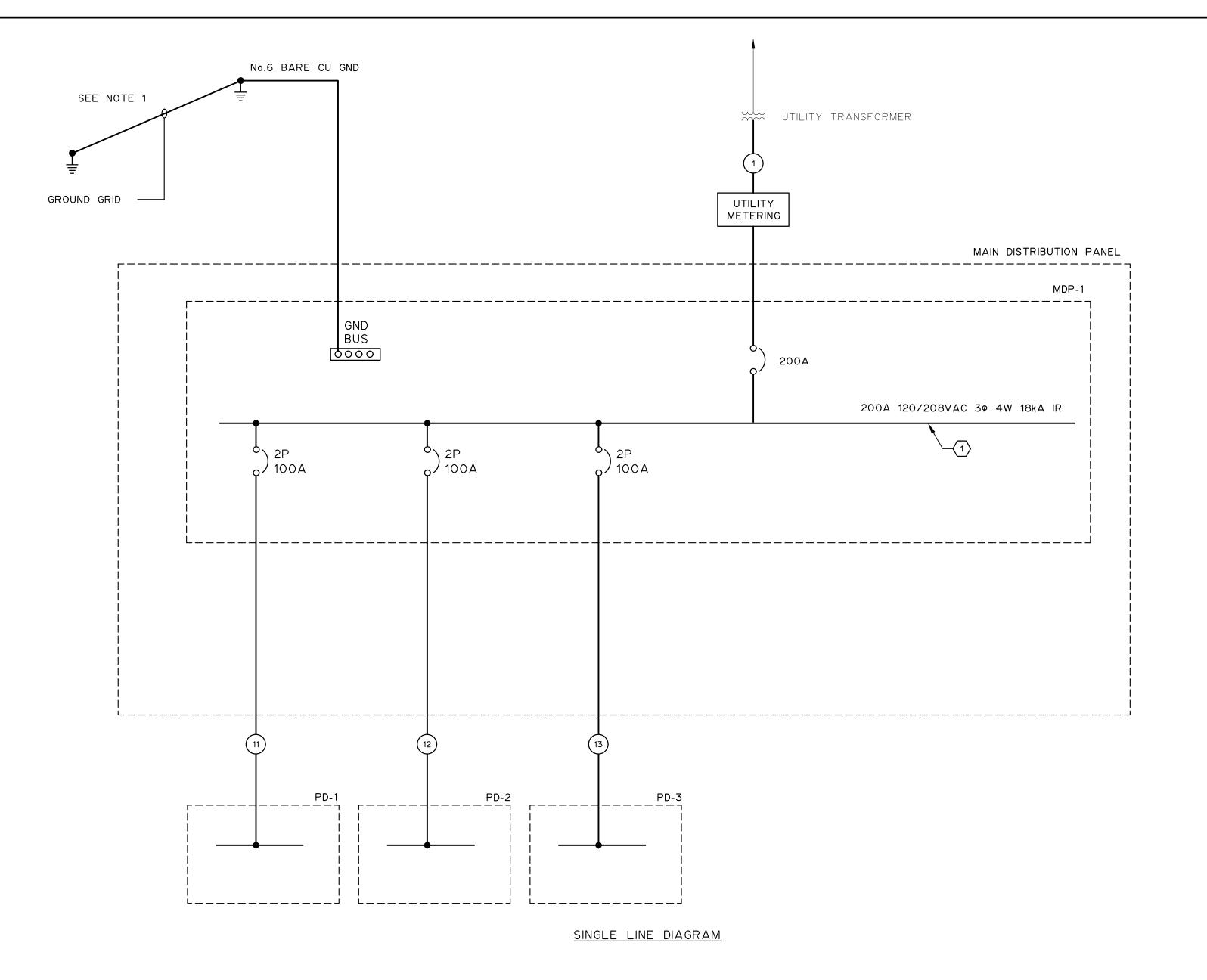
DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL

ELECTRICAL DETAILS

DESIGNED M.T.F., G.B.P. JOB 2728-011-00

DRAWN Y.F.S., M.T.F. SCALE NTS

DATE JANUARY 2022 DRAWING E1.3



|                                   |              |              | P           | ANEL: MDI | P-1         |              |              |                                     |  |  |
|-----------------------------------|--------------|--------------|-------------|-----------|-------------|--------------|--------------|-------------------------------------|--|--|
|                                   |              | LOC          | ATION:      | DRUMHEL   | LER PL      | AZA          |              |                                     |  |  |
|                                   |              |              | 120/208     | 3PH 4     | W 200       | Д            |              | _                                   |  |  |
| DESCRIPTION                       | LOAD<br>(KW) | TRIP<br>AMPS | BRK.<br>NO. | PHASE     | BRK.<br>NO. | TRIP<br>AMPS | LOAD<br>(KW) | DESCRIPTION                         |  |  |
| STAGE (50A)                       | 8.3          | 50           | 1           | A<br>B    | 2           | 100          | 16.6         | PD-1                                |  |  |
| 50A RECEPTACLE LOCAL              | 8.3          | 50           | 5           | C         | 6           | 100          | 16.6         | PD-2                                |  |  |
| 30A RECEPTACLE LOCAL              | 2.9          | 30           | 9           | В         | 10          | 100          | 46.5         | PD-3                                |  |  |
| 20A RECEPTACLE LOCAL              | 1.9          | 20           | 11          | С         | 12          | 100          | 16.6         |                                     |  |  |
| STAGE NORTH (20A)                 | 1.9          | 20           | 13          | А         | 14          | 20           | 1.9          | STAGE SOUTH (20A)                   |  |  |
| STAGE NORTH (20A)                 | 1.9          | 20           | 15          | В         | 16          | 20           | 1.9          | STAGE SOUTH (20A)                   |  |  |
| STAGE NORTH (20A)                 | 1.9          | 20           | 17          | С         | 18          | 20           | 1.9          | STAGE SOUTH (20A)                   |  |  |
| IRRIGATION CONTROL PANEL          | 1.9          | 20           | 19          | А         | 20          | 20           | 1.9          | LIGHT POLE RECEPTACLE NORTH         |  |  |
| LIGHTING CONTROL PANEL            | 1.9          | 20           | 21          | В         | 22          | 20           | 1.9          | LIGHT POLE RECEPTACLE SOUTH         |  |  |
| LIGHTS                            | 1.9          | 20           | 23          | С         | 24          | 20           | 1.9          | MDP-1 INTERIOR LIGHTS               |  |  |
| MDP-1 INTERIOR RECEPTACLE (POWER) | 1.4          | 15           | 25          | А         | 26          | 15           | 1.4          | MDP-1 INTERIOR RECEPTACLE (CONTROL) |  |  |
| HEATER                            | 0.4          | 15           | 27          | В         | 28          | 15           |              | SPARE                               |  |  |
| SPARE                             |              | 15           | 29          | С         | 30          | 15           |              | SPARE                               |  |  |
|                                   |              |              | 31          | А         | 32          |              |              |                                     |  |  |
|                                   |              |              | 33          | В         | 34          |              |              |                                     |  |  |
|                                   |              |              | 35          | С         | 36          |              |              |                                     |  |  |
|                                   |              |              | 37          | А         | 38          |              |              |                                     |  |  |
|                                   |              |              | 39          | В         | 40          |              |              |                                     |  |  |
|                                   |              |              | 41          | С         | 42          |              |              |                                     |  |  |

| MDP-1 PANEL SCHEDUL | F |
|---------------------|---|

|                |             |              | Р           | ANEL: PD | -1          |              |             |                |
|----------------|-------------|--------------|-------------|----------|-------------|--------------|-------------|----------------|
|                |             |              |             | LOCATION | :           |              |             |                |
|                |             |              | 120/208     | 3V 1PH 3 | W 100A      |              |             |                |
| DESCRIPTION    | LOAD<br>(W) | TRIP<br>AMPS | BRK.<br>NO. | PHASE    | BRK.<br>NO. | TRIP<br>AMPS | LOAD<br>(W) | DESCRIPTION    |
| 50A RECEPTACLE |             | 50           | 1           | Α        | 5           | 30           |             | 20A RECEPTACLE |
|                |             | 50           | 2           | В        | 6           | 20           |             | SPARE          |
| 30A RECEPTACLE |             | 30           | 3           | Α        | 7           |              |             | SPARE          |
| 20A RECEPTACLE |             | 20           | 4           | В        | 8           |              |             | SPARE          |

|                |             |              | Ρ.          | ANEL: PD | -2          |              |             |                |
|----------------|-------------|--------------|-------------|----------|-------------|--------------|-------------|----------------|
|                |             |              | l           | LOCATION |             |              |             |                |
|                |             |              | 120/208     | 3V 1PH 3 |             |              |             |                |
| DESCRIPTION    | LOAD<br>(W) | TRIP<br>AMPS | BRK.<br>NO. | PHASE    | BRK.<br>NO. | TRIP<br>AMPS | LOAD<br>(W) | DESCRIPTION    |
| 50A RECEPTACLE |             | 50           | 1           | С        | 5           | 30           |             | 20A RECEPTACLE |
|                |             | 30           | 2           | Α        | 6           | 20           |             | SPARE          |
| 30A RECEPTACLE |             | 30           | 3           | С        | 7           |              |             | SPARE          |
| 20A RECEPTACLE |             | 20           | 4           | А        | 8           |              |             | SPARE          |
|                |             |              |             |          |             | 1            |             |                |

|                |             |              | P           | ANEL: PD | -3          |              |             |                |
|----------------|-------------|--------------|-------------|----------|-------------|--------------|-------------|----------------|
|                |             |              | l           | OCATION  | :           |              |             |                |
|                |             |              | 120/208     | 3V 1PH 3 | W 100A      |              |             |                |
| DESCRIPTION    | LOAD<br>(W) | TRIP<br>AMPS | BRK.<br>NO. | PHASE    | BRK.<br>NO. | TRIP<br>AMPS | LOAD<br>(W) | DESCRIPTION    |
| 50A RECEPTACLE |             | 50           | 1           | В        | 5           | 30           |             | 20A RECEPTACLE |
|                |             | 50           | 2           | С        | 6           | 20           |             | SPARE          |
| 30A RECEPTACLE |             | 30           | 3           | В        | 7           |              |             | SPARE          |
| 20A RECEPTACLE |             | 20           | 4           | С        | 8           |              |             | SPARE          |

- 1. NEW GROUND GRID AS FOLLOWS:
- THERE MUST BE TWO MANUFACTURED ROD ELECTRODES C/W
  GROUND WELL AND CLAMP.
- EACH ROD SHALL BE MINIMUM 19mm DIAMETER AND 3m LENGTH.
- THE RODS MUST BE SPACED 3m APART.
- THE RODS MUST BE BONDED TOGETHER BY BARE No.6 GROUNDING CONDUCTOR.
- GROUND WELL TO BE ACE MANUFACTURING MODEL AGW.

KEYNOTES:

1. LOADS SMALLER THAN 100A NOT SHOWN ON SINGLE LINE. SEE MDP-1 PANEL SCHEDULE FOR ALL LOADS.

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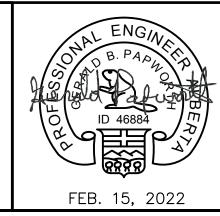
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Signature Leval Paparat

Date FEB. 15, 2022

PERMIT NUMBER: P 3680

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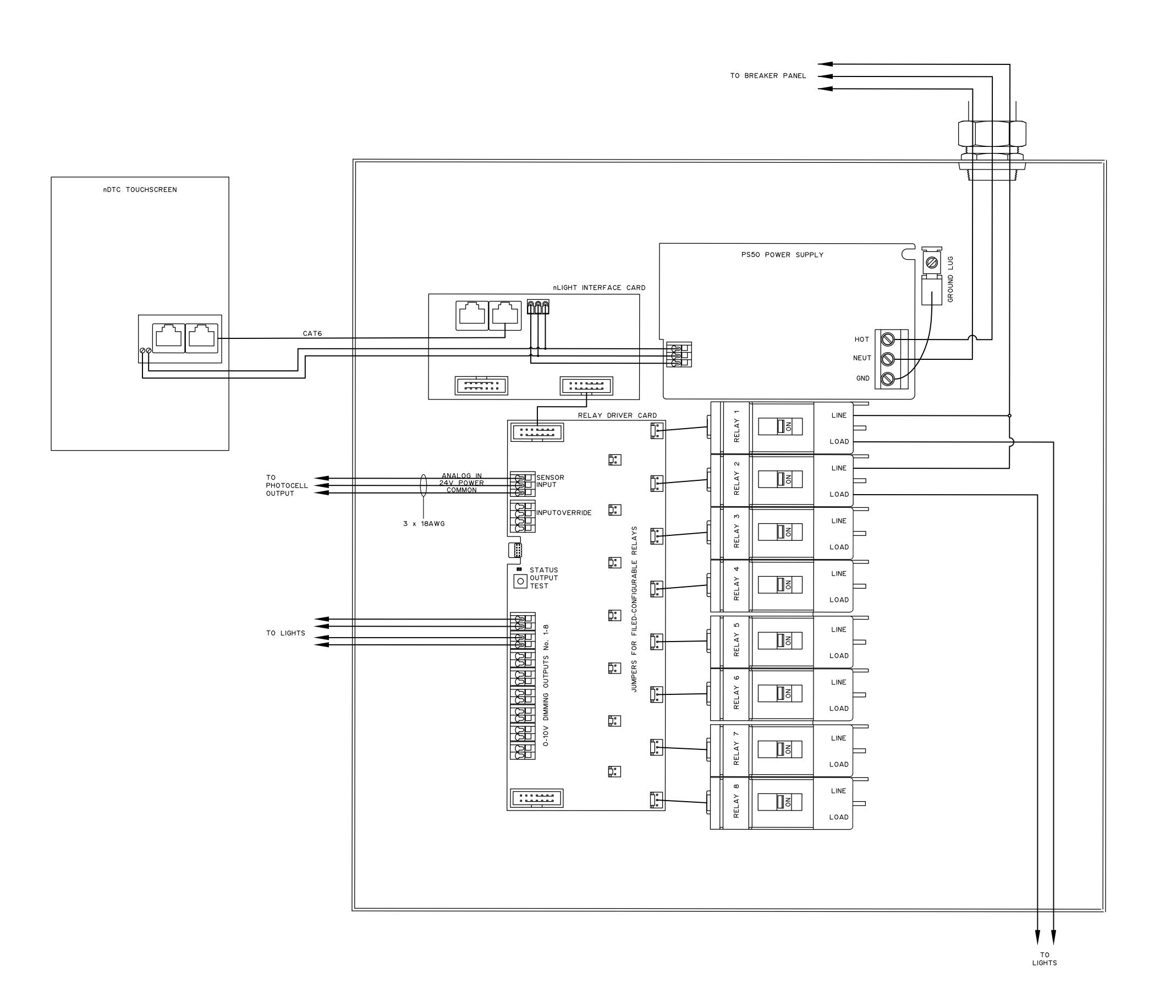


Engineering Ltd.

MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL
SINGLE LINE DIAGRAM

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATE     | JANUARY 2022   | DRAWING | F21         |



1. PHOTOCELL TO BE MOUNTED ON THE SIDE OF MDP-1 AND SHALL BE CONNECTED TO THE INPUT OF THE RELAY DRIVER CARD. ENSURE MOUNTING LOCATION OF PHOTOCELL IS ABSENT OF ARTIFICIAL LIGHT.

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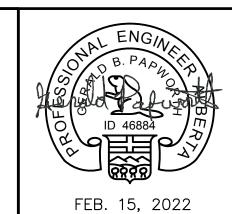
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APEGA ID

46884

Date FEB. 15, 2022
PERMIT NUMBER: P 3680
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)





## MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL

LIGHTING CONTROLS

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATE     | JANUARY 2022   | DRAWING | F23         |

|     | LUMINAIRE SCHEDULE   |   |                 |      |                   |                         |                       |            |      |            |   |  |
|-----|----------------------|---|-----------------|------|-------------------|-------------------------|-----------------------|------------|------|------------|---|--|
| TAG | DESCRIPTION          | MANUFACTURER/MODEL (OR APPROVED EQUIVALENT) | MOUNTING HEIGHT | LAMP | LENS              | FIXTURE LUMEN<br>OUTPUT | COLOUR<br>TEMPERATURE | MOUNTING   | VOLT | LIFESPAN   | REMARKS   |  |
| А   | POLE MOUNTED FIXTURE | LUMINIS SC655L1L15R55120VGRTK3HLPCST        | 12',14',16'     | LED  | HEXCELL<br>LOUVER | 1599                    | 3000K                 | POLE MOUNT | 120  | 60,000 HRS | 3 LIGHTS MOUNTED AT DIFFERENT<br>HEIGHTS ON EACH POLE |  |
| В   | LIGHT POLE 18'       | LUMINIS PAA518-1 GRT CGF                    |                 |      |                   |                         |                       |            |      |            | 18' POLE  |  |

|     |           |           |           |             | CABLE             | SCHEDULE |               |         |          |                                |
|-----|-----------|-----------|-----------|-------------|-------------------|----------|---------------|---------|----------|--------------------------------|
| REF | CABLE TAG | FROM      | ТО        |             | CONDUCTOR DETAILS |          | CONDUIT/CABLE | VOLTAGE | LENGTH   | NOTES                          |
|     |           | EQUIP TAG | EQUIP TAG | NO. OF COND | SIZE AWG          | TYPE     |               |         | (METERS) |                                |
| 1   | MDP-1     | UTILITY   | MDP-1     | 4           | 250               | ACWU90   |               | 208VAC  | TBD      | UTILITY                        |
| 11  | PD-1      | MDP-1     | PD-1      | 3           | 1/0               | ACWU90   |               | 208VAC  | TBD      | PEDESTAL 1                     |
| 12  | PD-2      | MDP-1     | PD-2      | 3           | 1/0               | ACWU90   |               | 208VAC  | TBD      | PEDESTAL 2                     |
| 13  | PD-3      | MDP-1     | PD-3      | 3           | 1/0               | ACWU90   |               | 208VAC  | TBD      | PEDESTAL 3                     |
| 14  | STG-N2    | MDP-1     | STG-N     | 3           | 8                 | TECK90   |               | 208VAC  | TBD      | STAGE NORTH 50A RECEPTACLE     |
| 15  | STG-N1    | MDP-1     | STG-N     | 6           | 10                | TECK90   |               | 120VAC  | TBD      | STAGE NORTH 20A RECEPTACLES    |
| 16  | STG-S1    | MDP-1     | STG-S     | 6           | 10                | TECK90   |               | 120VAC  | TBD      | STAGE NORTH 20A RECEPTACLES    |
| 17  | SHD       | MDP-1     | SHD       | 4           | 12                | TECK90   |               | 120VAC  | TBD      | SHED POWER                     |
| 21  | LP-1P     | MDP-1     | LP-1      | 4           | 12                | TECK90   |               | 120VAC  | TBD      | LIGHT POLE 1 LIGHTS/RECEPTACLE |
| 22  | LP-2P     | LP-1      | LP-2      | 4           | 12                | TECK90   |               | 120VAC  | TBD      | LIGHT POLE 2 LIGHTS/RECEPTACLE |
| 23  | LP-3P     | LP-2      | LP-3      | 4           | 12                | TECK90   |               | 120VAC  | TBD      | LIGHT POLE 3 LIGHTS/RECEPTACLE |
| 24  | LP-4P     | MDP-1     | LP-4      | 4           | 12                | TECK90   |               | 120VAC  | TBD      | LIGHT POLE 4 LIGHTS/RECEPTACLE |
| 25  | LP-5P     | LP-4      | LP-5      | 4           | 12                | TECK90   |               | 120VAC  | TBD      | LIGHT POLE 5 LIGHTS/RECEPTACLE |
| 26  | LP-6P     | LP-5      | LP-6      | 4           | 12                | TECK90   |               | 120VAC  | TBD      | LIGHT POLE 6 LIGHTS/RECEPTACLE |
| 31  | LP-1C     | MDP-1     | LP-1      | 1PR         | 18                | SHLD     | C31           | 10VDC   | TBD      | LIGHT POLE 1 LIGHT CONTROL     |
| 32  | LP-2C     | LP-1      | LP-2      | 1PR         | 18                | SHLD     | C32           | 10VDC   | TBD      | LIGHT POLE 2 LIGHT CONTROL     |
| 33  | LP-3C     | LP-2      | LP-3      | 1PR         | 18                | SHLD     | C33           | 10VDC   | TBD      | LIGHT POLE 3 LIGHT CONTROL     |
| 34  | LP-4C     | MDP-1     | LP-4      | 1PR         | 18                | SHLD     | C34           | 10VDC   | TBD      | LIGHT POLE 4 LIGHT CONTROL     |
| 35  | LP-5C     | LP-4      | LP-5      | 1PR         | 18                | SHLD     | C35           | 10VDC   | TBD      | LIGHT POLE 5 LIGHT CONTROL     |
| 36  | LP-6C     | LP-5      | LP-6      | 1PR         | 18                | SHLD     | C36           | 10 VDC  | TBD      | LIGHT POLE 6 LIGHT CONTROL     |

|     |             |           |           |     | CONDUIT SCHEDULE |      |         |          |                           |
|-----|-------------|-----------|-----------|-----|------------------|------|---------|----------|---------------------------|
| REF | CONDUIT TAG | FROM      | ТО        |     | CONDUIT DETAILS  |      | VOLTAGE | LENGTH   | NOTES                     |
|     |             | EQUIP TAG | EQUIP TAG | QTY | SIZE             | TYPE |         | (METERS) |                           |
| 31  | C31         | MDP-1     | LP-1      | 1   | 21               | HDPE | 24VDC   | TBD      | CONTROL/NETWORK           |
| 32  | C32         | LP-1      | LP-2      | 1   | 21               | HDPE | 24VDC   | TBD      | CONTROL/NETWORK           |
| 33  | C33         | LP-2      | LP-3      | 1   | 21               | HDPE | 24VDC   | TBD      | CONTROL/NETWORK           |
| 34  | C34         | MDP-1     | LP-4      | 1   | 21               | HDPE | 24VDC   | TBD      | CONTROL/NETWORK           |
| 35  | C35         | LP-4      | LP-5      | 1   | 21               | HDPE | 24VDC   | TBD      | CONTROL/NETWORK           |
| 36  | C36         | LP-5      | LP-6      | 1   | 21               | HDPE | 24VDC   | TBD      | CONTROL/NETWORK           |
| 41  | C41         | ISP       | MDP-1     | 1   | 35               | HDPE | 24VDC   | TBD      | INTERNET PROVIDER         |
| 42  | C42         | MDP-1     | STG-N     | 1   | 21               | HDPE | 24VDC   | TBD      | NETWORK STAGE             |
| 51  | C51         | MDP-1     | VLV-N     | 1   | 35               | HDPE | 24VDC   | TBD      | IRRIGATION VALVE BOX NORT |
| 52  | C52         | MDP-1     | VLV-S     | 1   | 35               | HDPE | 24VDC   | TBD      | IRRIGATION VALVE BOX SOUT |

|      |          | EQUIPMENT S                   | CHEDULE              |                   |                                 |
|------|----------|-------------------------------|----------------------|-------------------|---------------------------------|
| ITEM | QUANTITY | DESCRIPTION                   | MAKE                 | MODEL             | NOTES                           |
| E1   | 1        | KIOSK                         | VALID                | DSKA664628-220155 | INCLUDE INSULATION AND LIGHTING |
| E2   | 1        | KIOSK PRECAST CONCRETE BASE   | WESTCON              | W2-05             |                                 |
| E3   | 1        | DISTRIBUTION PANEL 42 CIRCUIT | EATON                | PRL1a             |                                 |
| E4   | 3        | PEDESTAL C/W 50A, 30A, 2X20A  | VALID                | СРВ-РМ-МВ-НВ      |                                 |
| E5   | 1        | LIGHTING RELAY PANEL          | ACUITY BRANDS nLIGHT | 8SPR              |                                 |
| E6   | 1        | SURGE PROTECTION DEVICE       | SURGE PURE           | M2-1208-4         |                                 |
| E7   | 1        | ETHERNET SWITCH 5 PORT        |                      |                   |                                 |
| E8   | 1        | HEATER 400W                   | HAMMOND              | FLHTF400A115      |                                 |
| E9   | 6        | LIGHT POLE BASE               | WESTCON              | W4-07             | 9" BOLT CIRCLE DIAMETER         |

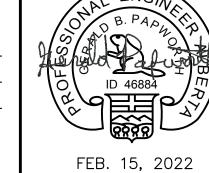
- 1. THE CONDUIT AND CABLE SCHEDULE IS INTENDED TO SHOW THE MAJORITY OF THE POWER AND INSTRUMENTATION CABLE RUNS. INSTALL AND CONNECT ALL CABLES AND CONDUIT TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 2. SEE ELECTRICAL PANEL AND MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL WIRING REQUIREMENTS.
- 3. LIKE VOLTAGE WIRING CAN BE COMBINED IN COMMON CONDUIT PROVIDING MINIMUM 25% SPARE IN ACCOUNTED FOR IN ADD IN TO CEC CONDUIT FILL REQUIREMENTS. SEPARATE CONDUITS ARE REQUIRED FOR 120VAC, 24VDC, ANALOG SIGNALS, COMMUNICATION.
- 4. ALL IN CONCRETE SLAB RIGID ALUMINUM (ALUM) CONDUIT TO HAVE OUTSIDE OF CONDUIT COVERED WITH CORROSION PROTECTIVE COATING BITUMASTIC, ASPHALT BASED PAINT OR PVC COATING.
- 5. IN CONCRETE SLAB CONDUITS TO BE RPVC OR RIGID ALUMINUM.
- ALUMINUM.
- 6. IN CEILING CONDUITS TO BE EMT.
- 7. SURFACE MOUNT CONDUITS TO BE RPVC AND ARE ONLY PERMITTED FOR VERTICAL RUNS INTO CEILING SPACE AND HORIZONTAL RUNS LESS THAN 600. INSTALL ALL CONDUITS IN WALLS, CEILINGS AND FLOORS UNLESS OTHERWISE INDICATED.
- 8. ALL CABLING SIZE BASED ON 75° TERMINATION
- TEMPERATURE.
- 9. PROVIDE AND INSTALL APPROPRIATELY SIZED GROUND CABLE FOR ALL CABLE RUNS.
- 10. ALL CABLES ARE TO BE COPPER UNLESS OTHERWISE NOTED.
- 11. GROUND WIRE NOT SHOWN.

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| 1     | 22-02-15                | ISSUED FOR TEN | IDER      |
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| ISSUE | YY-MM-DD                | REVISION       |           |
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MPE ENGINEERING LTD.

Signature Herold Papurit



The Association of Professional Engineers and
Geoscientists of Alberta (APEGA)

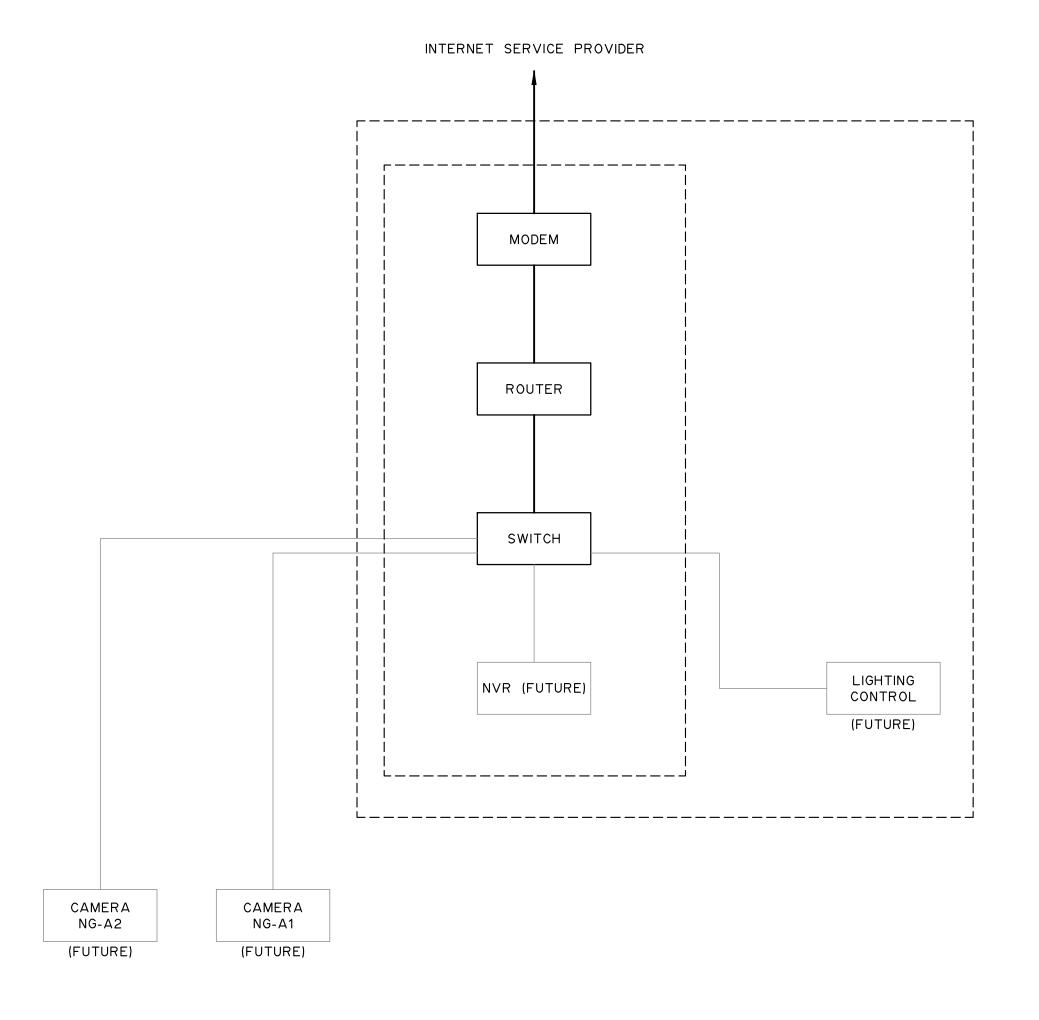
FEB. 15, 202



## MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL
SCHEDULES

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATE     | JANUARY 2022   | DRAWING | E2.4        |



1. ALL LINES CAT6 UNLESS OTHERWISE NOTED.

2. ALL CABLES EXTERIOR TO BUILDINGS/ENCLOSURES TO BE ARMOURED AND SUITABLE FOR DIRECT BURIAL.

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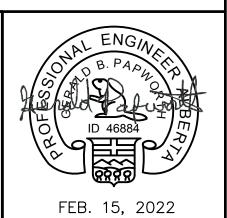
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Signature Herold Papuroth
APEGA ID 46884

Date FEB. 15, 2022

PERMIT NUMBER: P 3680

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

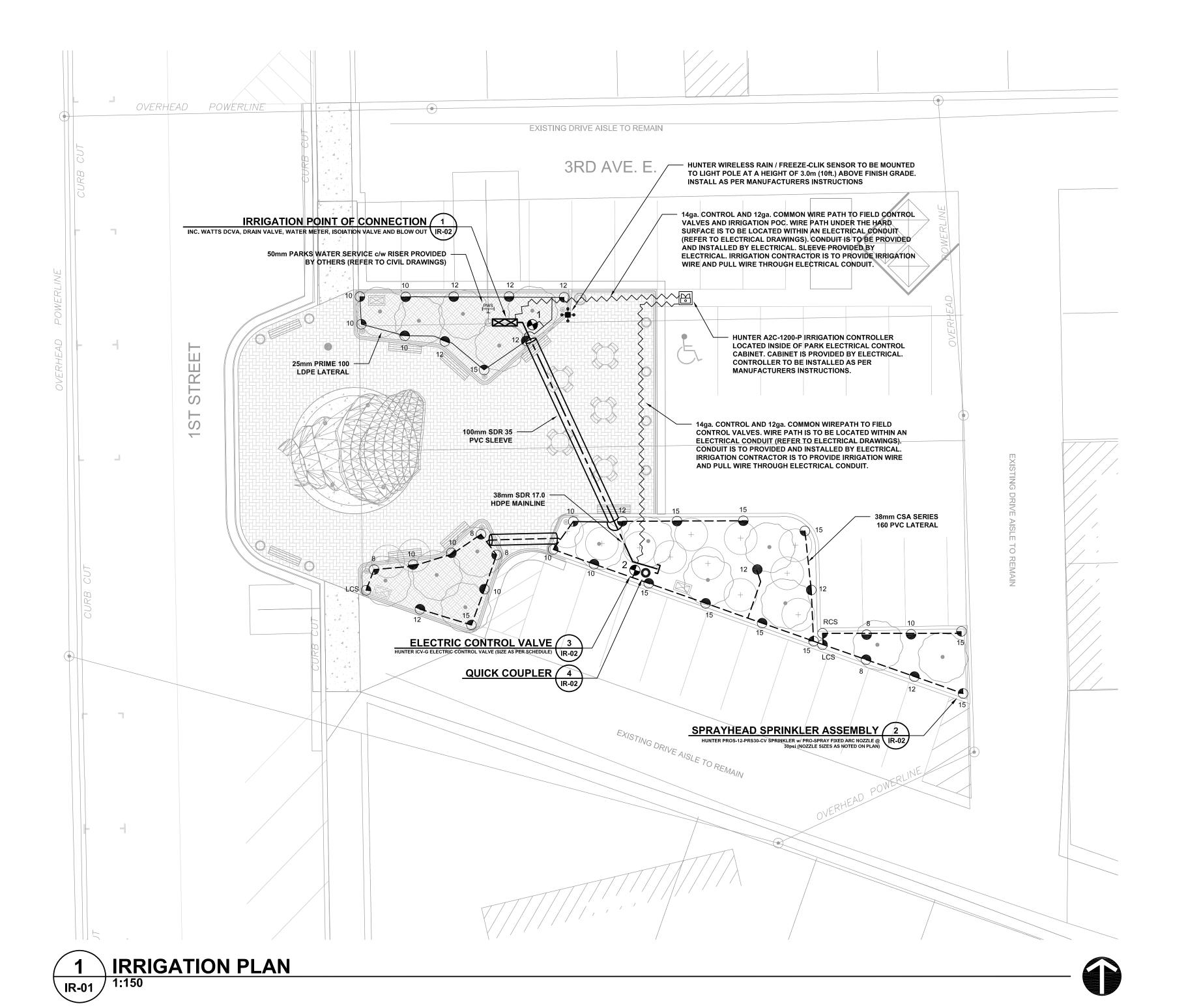




## MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA
ELECTRICAL
NETWORK ARCHITECTURE

| DESIGNED | M.T.F., G.B.P. | JOB     | 2728-011-00 |
|----------|----------------|---------|-------------|
| DRAWN    | Y.F.S., M.T.F. | SCALE   | NTS         |
| DATE     | JANUARY 2022   | DRAWING | F3.1        |



| Item ID                                  | Flow            | Length (ft)              | Loss Per/100ft                                 | Loss per Ite |
|--|-----------------|--------------------------|--|--------------|
| Zone 2                                   | gpm             | Ft                       | psi  | psi          |
| 38mm Series 160 PVC Lateral              | <u> </u>        | (use manufacturer's cat  | alog pressure loss chart)                      | •            |
| Hunter Pro-spray                         | 0.97            | 15                       | 0.02   | 0.003        |
| Hunter Pro-spray                         | 2.27            | 12                       | 0.03   | 0.004        |
| Hunter Pro-spray                         | 2.74            | 8                        | 0.05   | 0.004        |
| Hunter Pro-spray                         | 3.24            | 14                       | 0.16   | 0.022        |
| Hunter Pro-spray                         | 8.47            | 2                        | 0.37   | 0.007        |
| Hunter Pro-spray                         | 12.9            | 15                       | 0.44   | 0.066        |
| Hunter Pro-spray                         | 17.4            | 2                        | 0.52   | 0.010        |
| Hunter Pro-spray                         | 19.69           | 12                       | 0.71   | 0.085        |
| Hunter Pro-spray                         | 21.67           | 15                       | 1  | 0.150        |
| Hunter Pro-spray                         | 29.9            | 2                        | 1.75   | 0.035        |
|  | Pr              | essure Loss per Tota     | Lateral Pipe Length                            | 0.387        |
|  | Pre             | ssure Loss per Latera    | al Pipe Fittings @ 10%                         | 0.039        |
|  |                 | Total Pressu             | re Loss per Lateral                            | 0.426        |
|  |                 |                          | •  |              |
| Electric Control Valve                   |                 | (use manufacturer's cat  | alog pressure loss chart)                      |              |
| 38mm Hunter ICV                          | 29.9            |                          | essure Loss per Valve                          | 1.600        |
| Comminanter 10 v                         | 20.0            |                          | sure Loss per Valve                            | 1.600        |
|  |                 | TOTAL FIESS              | sure Loss per vaive                            | 1.000        |
| Mainline                                 |                 | (use manufacturer's cat  | alog pressure loss chart)                      |              |
| 38mm SDR 17.0 HDPE Mainline              | 29.9            | 66                       | 3  | 1.980        |
|  | Pres            | ssure Loss per Total I   | Mainline Pipe Length                           | 1.980        |
|  |                 |                          | e Pipe Fittings @ 10%                          | 0.198        |
|  |                 | Total Pressure           | e Loss per Mainline                            | 2.178        |
|  |                 |                          |  |              |
| Water Meter                              |                 |                          | alog pressure loss chart)                      |              |
| 25mm Neptune Mach 10                     |                 |                          | Loss per flow sensor                           | 3.200        |
| 29.9gpm                                  | Total Pre       | essure Loss per Me       | eter & Master Valve                            | 3.200        |
| DCVA                                     |                 | (                        | talan muaasima laas ah anti                    |              |
| 38mm Zurn Model 350                      |                 | ,                        | alog pressure loss chart) essure Loss per DCVA | 6.000        |
| ŀ  |                 |                          |  |              |
| 29.9gpm                                  |                 | l otal Press             | sure Loss per DCVA                             | 6.000        |
| Additional Fittings, Valves, etc. Losses |                 | (use manufacturer's cat  | alog pressure loss chart)                      |              |
| <u> </u>                                 | Pressure Loss   | s for Additional Fitting | gs Valves, etc. @ 7.5%                         | 1.090        |
|  |                 |                          | sure Loss per DCVA                             | 1.090        |
|  | T - 4           |                          | D  | 44.404       |
|  | 101             | tal Pressure Syste       |  | 14.494       |
|  |                 | •                        | perating Pressure                              | 30.000       |
|  | ia Dragalika Da | valuired to Operate      | Irrigation System                              | 44.494       |
| Minimum Stati                            | ic Fressure Re  | equired to Operate       | inigation system                               | 44.434       |
| Minimum Stat                             | ic Pressure Re  | equired to Operate       | Static Pressure                                | 65.000       |

## IRRIGATION LEGEND:

14GA CONTROL AND 12GA COMMON WIRE PATH

25mm PRIME 100 LDPE LATERAL

38mm CSA SERIES 160 PVC LATERAL

38mm SDR 17.0 HDPE MAINLINE

100mm SDR 35 PVC SLEEVE. TWO TIMES PIPE DIAMETER OR SUM OF PIPES PASSING THROUGH THE SLEEVE. INSTALL 50mm Ø WIRE CONDUIT ADJACENT TO MAINLINE SLEEVES TYP. @ 300mm DEPTH BELOW FINISH GRADE, SIDEWALKS AND PATHWAYS. SLEEVE @ 600mm DEPTH BELOW DRIVEWAYS AND ROADWAYS. EXTEND SLEEVING MINIMUM 300mm BEYOND EDGE OF ADJACENT HARD SURFACE.

HUNTER WIRELESS RAIN/FREEZE-CLIK SENSOR

50mm PARKS WATER SERVICE c/w RISER PROVIDED BY OTHERS

HUNTER A2C-1200-P IRRIGATION CONTROLLER LOCATED INSIDE OF PARK ELECTRICAL CONTROL CABINET. CABINET IS PROVIDED BY ELECTRICAL. CONTROLLER TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS.















#### **IRRIGATION NOTES:**

- 1. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND SERVICES PRIOR TO CONSTRUCTION.
- 2. ALL IRRIGATION PRODUCTS, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND IRRIGATION SPECIFICATIONS PROVIDED IN THE CONTRACT.
- 3. THE CONTRACTOR SHALL VERIFY STATIC PRESSURE AT THE POINT OF CONNECTIONS AND NOTIFY CONSULTANT OF READINGS.
  MINIMUM PRESSURE REQUIRED IS 50 PSI. IF THE PRESSURE IS LOWER THAN 50 PSI THEN A BOOSTER PUMP MAY BE REQUIRED.
- 4. CONTRACTOR SHALL MONITOR AND ADJUST THE WATER SCHEDULE SEASONALLY AND AS NEEDED TO ENSURE THAT PLANT WATER
- 4. CONTRACTOR SHALL MONITOR AND ADJUST THE WATER SCHEDULE SEASONALLY AND AS NEEDED TO ENSURE THAT PLANT WATER REQUIREMENTS ARE MET & NOT EXCEEDED.
- 5. IRRIGATION PLANS ARE SCHEMATIC ONLY. ALL TREES, LIGHT STANDARDS, HARD SURFACES OR AMENITIES. TAKE PRECEDENCE OVER LOCATION OF IRRIGATION COMPONENTS
- 6. SUBSTITUTION REQUESTS SHALL BE MADE IN WRITING TO THE CONTRACT ADMINISTRATOR MINIMUM 7 BUSINESS DAYS PRIOR TO CLOSE OF TENDER AND SHALL BE ACCOMPANIED BY PRODUCT LITERATURE, SHOP DRAWINGS, AND PERFORMANCE CHARTS.
- 7. WIRE SPLICES SHALL BE MADE w/ 3M DBY/R CONNECTORS & LOCATED AT ELECTRIC CONTROL ZONE VALVES.
- 8. CONTRACTOR SHALL ENSURE ALL UTILITY INSTALLATIONS HAVE BEEN COMPLETED PRIOR TO PLANTING.
- 9. ALL SPRINKLER RADII AND ARC'S ARE TO BE ADJUSTED TO AVOID OVER-SPRAY ONTO HARD SURFACES.
- 10. STATIC WATER PRESSURE: 65-75 PSI

| RRIGATION | WATERING SCHEDULE        |                    |              |                      |                          |                           |                 |             |                         |   |                     |                    |
|-----------|--------------------------|--------------------|--------------|----------------------|--------------------------|---------------------------|-----------------|-------------|-------------------------|---|---------------------|--------------------|
| ZONE      | IRRIGATION TYPE          | VALVE SIZE         | LATERAL SIZE | DESIGN FLOW<br>(gpm) | DESIGN PRESSURE<br>(psi) | PRECIPITATION RATE ("/hr) | PLANT TYPE      | SOIL TYPE   | WATERING<br>(days/week) | PEAK RUN TIME<br>(mins/day) PER<br>WATERING DAY | # CYCLES PER<br>DAY | CYCLE TIMES (mins) |
| 1         | SPRAY                    | 25mm               | 25mm         | 9.1                  | 30                       | 1.60                      | TREE'S & SHRUBS | CLAY / LOAM | 5                       | 8   | 2                   | 4                  |
| 2         | SPRAY                    | 38mm               | 38mm         | 29.9                 | 30                       | 1.60                      | TREE'S & SHRUBS | CLAY / LOAM | 5                       | 8   | 2                   | 4                  |
| ASED ON I | EAK BASE SCHEDULE FOR MO | NTH OF JULY (ET=0. | 18"/DAY)     |                      |                          |                           |                 | тот         | AL PEAK RUN TIME        | 16  |                     |                    |

The above schedule is for mature size trees and shrubs and should be adjusted to the growth stage.
 The above schedule is for the peak month of July and should be reduced to 73% for May, 84% for June, 82% for August and 56% for September.



## DRUMHELLER DOWNTOWN PLAZA

FOR MUNICIPALITY OF DRUMHELLER

MUNICIPAL ADDRESS

LEGAL DESCRIPTION
PLAN XXXX, BLOCK X, LOT X

CONSULTANTS



SEALS





| RUCTIO | NC |
|--------|----|
| DATE.  |    |
| DATE.  |    |
|        | BY |
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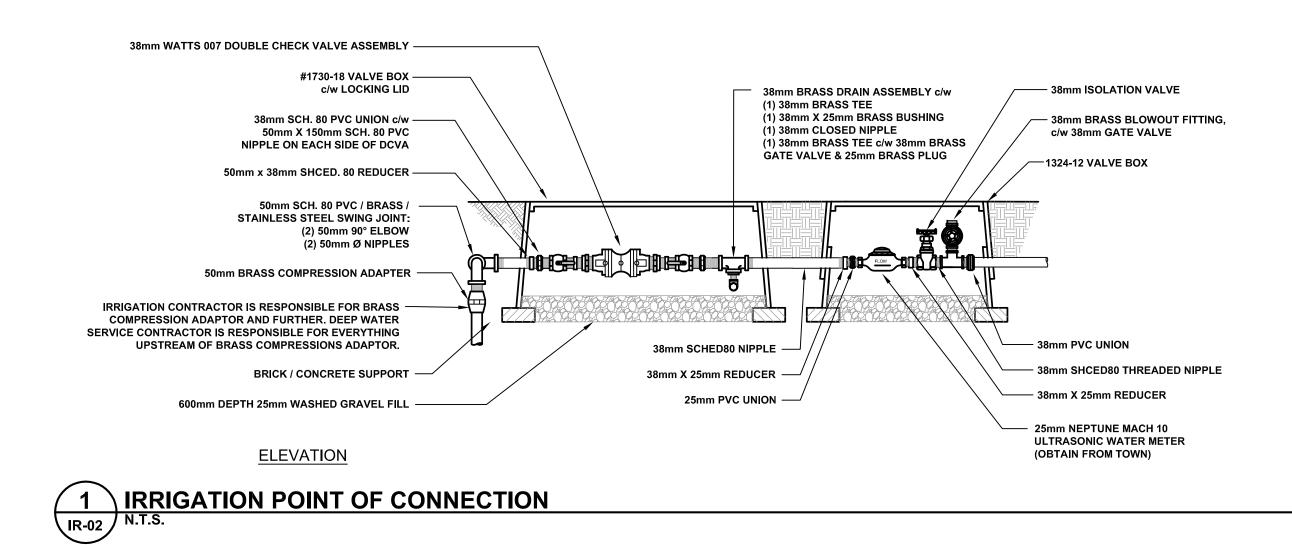
2 ISSUE FOR TENDER 2022-02-15

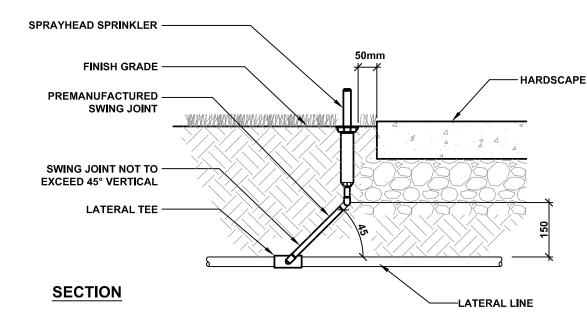
1 ISSUE REVIEW SET 2022-02-08

DESIGNED BY: DL CHECKED BY: DL

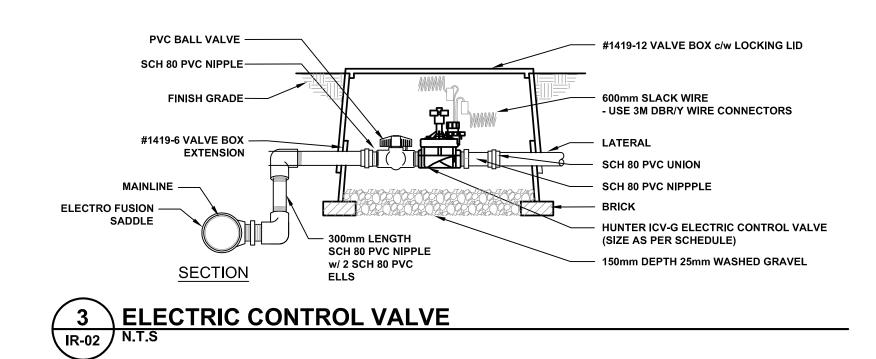
DRAWING TITLE:
IRRIGATION PLAN

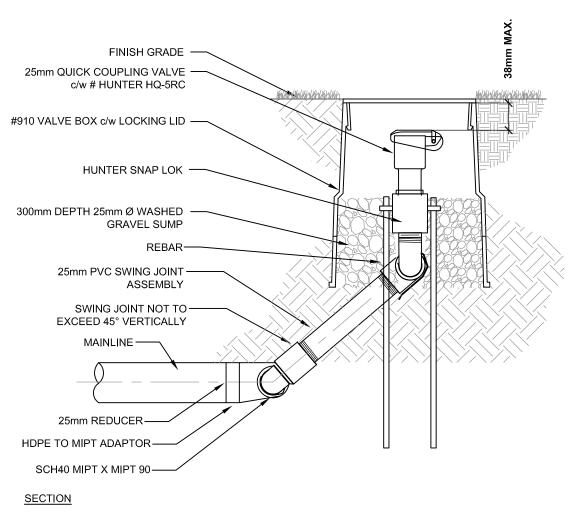
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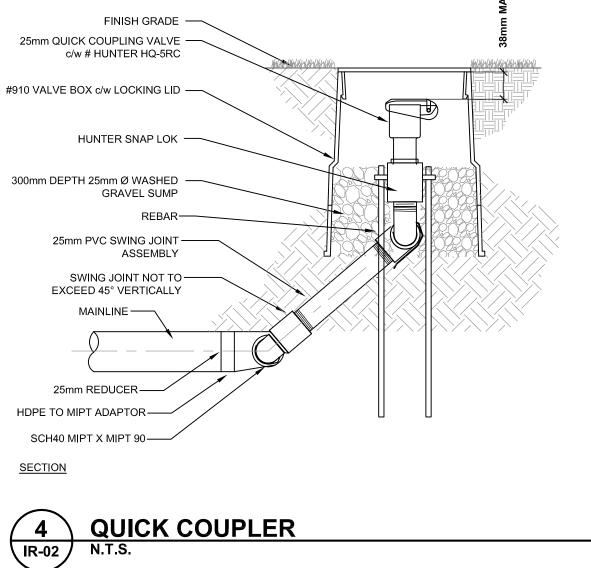














## PROJECT DRUMHELLER DOWNTOWN PLAZA

MUNICIPALITY OF DRUMHELLER

MUNICIPAL ADDRESS XXX XXX

LEGAL DESCRIPTION PLAN XXXX, BLOCK X, LOT X

CONSULTANTS



SEALS





| ISSUED FOR: TENDER<br>DATE: 2022-02-15 |            |        |
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| REVISIONS: NO. DESCRIPTION.            | DATE.      | ВҮ     |
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| 2 ISSUE FOR TENDER                     | 2022-02-15 |        |
| 1 ISSUE REVIEW SET                     | 2022-02-08 |        |
| DESIGNED BY: DL                        | CHECKED    | BY: DI |

DRAWING TITLE:
IRRIGATION DETAIL PLAN

