

BACKGROUND:

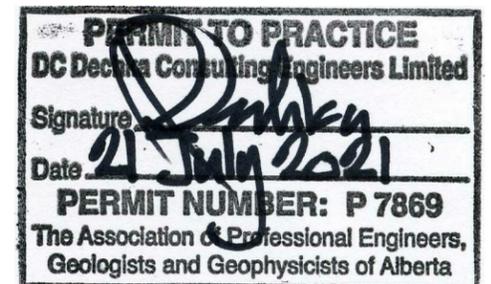
- SOUTH OF THE POOL AREA IS AN EXIST. MASS RET. WALL CONSTRUCTED FROM STONE MASONRY. REFER TO DET. 1/S1.
- THE SHORT STRAIGHT NORTH-SOUTH LEG IS APPROX. 4 M LG.. THE LONGER CURVILINEAR LEG IS APPROX. 19 M LG.. THE HEIGHT VARIES B/W 0.7 M & 3.1 M. REFER TO DET'S 1/S5 TO 1/S7.
- IN RECENT YEARS, PARKS CANADA USED THE UPPER GRADE AS A SNOW STORAGE AREA, WHICH INCREASED THE OVERBURDEN & THE HYDROSTATIC PRESS. ON THE WALL.
- THE INCREASE IN LAT'L LOAD CAUSED DAMAGE TO THE WALL, WHICH REQUIRES REMEDIATION. REFER TO DET'S 5/S2 & 6/S2.
- AS A HERITAGE SITE, PARKS CANADA IS REQUIRED TO MAINTAIN THE 'FABRIC' (OR OUTWARD APPEARANCE) OF THE WALL. AND AS SUCH, REBUILDING THE STONE MASONRY SHALL BE MINIMIZED.

OVERALL SCOPE OF WORK:

1

1. REMOVE ALL ASPHALT PAVEMENT IN THE IMMEDIATE AREA. REMOVE THE STONE PLANTER. REMOVE THE EXIST. STORMWATER DRAIN. REFER TO DET. 1/S3 (DEMOLITION PLAN).
2. EXCAVATE DOWN THE INSIDE FACE TO THE BASE OF THE STONE WALL.
3. REPOINT THE INSIDE FACE OF THE THE DAMAGED PORTION OF THE STONE WALL.
4. INSTALL A NEW C.I.P. CONC. RET. WALL ALONG THE INSIDE FACE OF THE STONE WALL. THE CONC. WALL WILL BE CAST IN 4 POURS (STRIP FTG., WALL, CANT. SLAB & CURB).
5. REPAIR THE OUTSIDE FACE OF THE DAMAGED PORTION OF THE STONE WALL.
6. INSTALL RIGID INSUL. & A DRAINAGE SYSTEM ALONG THE INSIDE FACE OF THE NEW CONC. WALL.
7. INSTALL A NEW PLANTER W/ A C.I.P. CONC. BASE & RUNDLE STONE MASONRY WALLS. (THE PLANTER WALLS SHALL MATCH THE RET. WALL).
8. INSTALL A NEW STORMWATER DRAIN.
9. INSTALL NEW ASPHALT PAVEMENT.
10. REMOVE ALL LOOSE STONES & LOOSE MORTAR FROM THE TOP OF THE STONE RET. WALL & REINSTALL ALL LOOSE STONE (APPROX. 25% OF THE STONE ALONG THE T.O. WALL).

NOTE: THE DAMAGED PORTION OF THE STONE WALL SHALL BE REPAIRED / REBUILT. THE EXTENT OF THE DAMAGE WILL BE BETTER UNDERSTOOD ONCE THE INSIDE FACE OF THE STONE WALL HAS BEEN EXCAVATED.



REV.	DESCRIPTION	DATE
1	POURS REVISED	27 JULY 2021
0	ISSUED FOR TENDER	21 JULY 2021

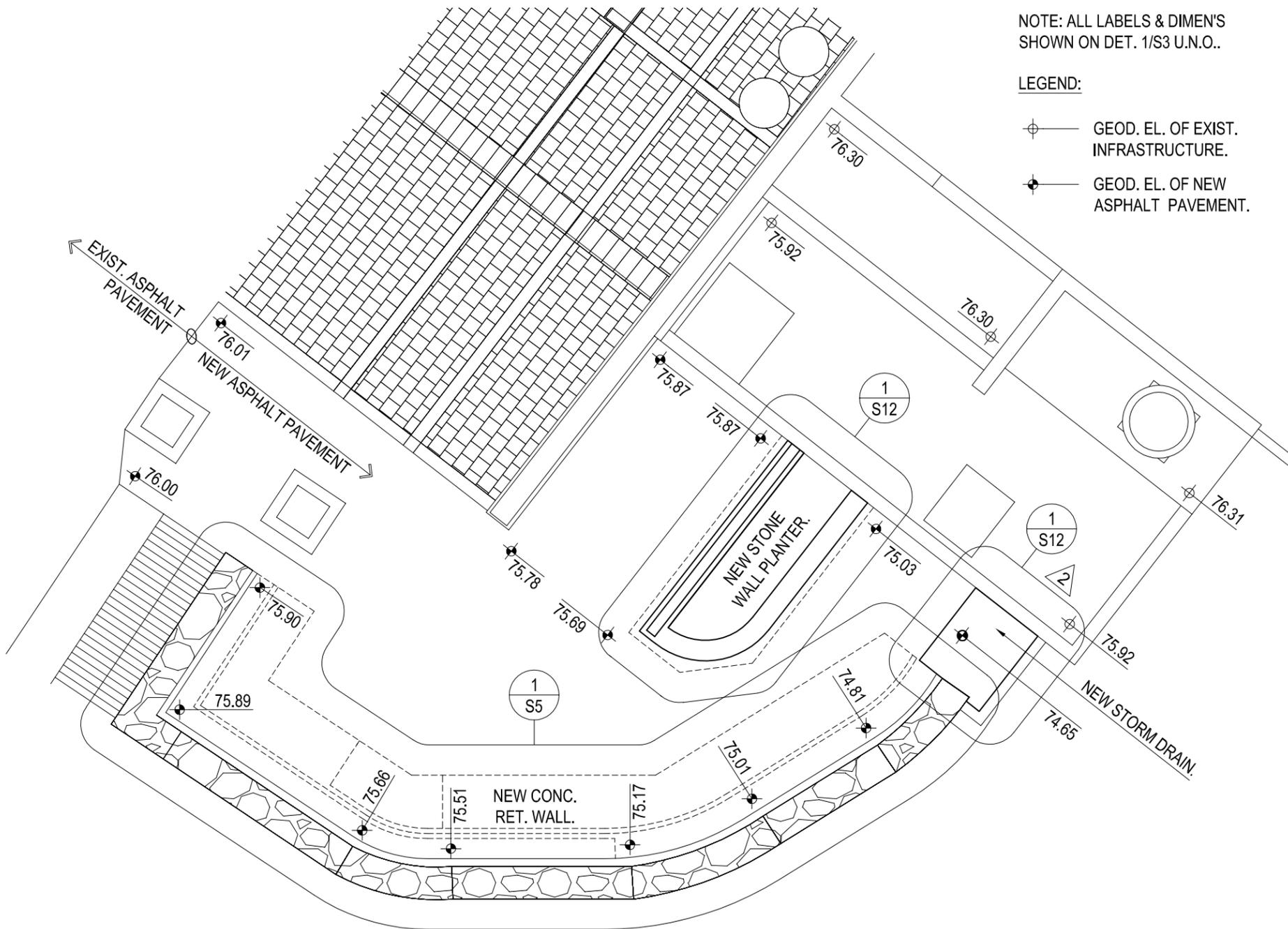
DC D.C. DECHKA CONSULTING ENGINEERS LIMITED
 27 Silverview Place N.W., Calgary, AB, T3B 3K5
 Phone: (403) 204 - 2234
 E-mail: dechka@telus.net

**PARKS CANADA - UPPER BANFF HOT SPRINGS
 STONE BLOCK RETAINING WALL UPGRADES**

KEY PLAN & OVERALL SCOPE OF WORK

PROJECT NUMBER:	21-153-01
DATE:	6 JULY 2021
SCALE:	AS SHOWN
DRAWN:	D.C.
CHECKED:	D.D.

DRAWING NUMBER:
S1



NOTE: ALL LABELS & DIMEN'S SHOWN ON DET. 1/S3 U.N.O..

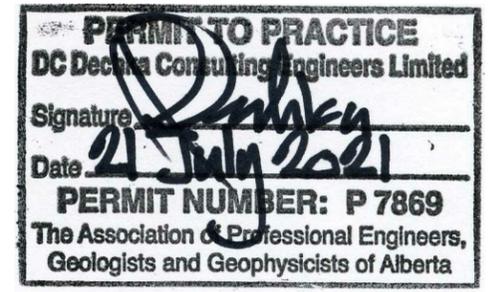
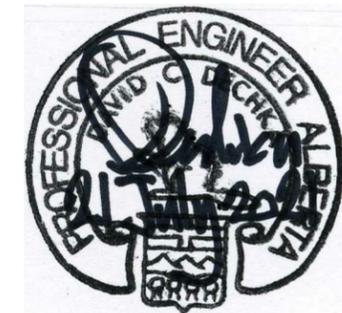
LEGEND:

- ⊕ GEOD. EL. OF EXIST. INFRASTRUCTURE.
- ⊕ GEOD. EL. OF NEW ASPHALT PAVEMENT.

SCOPE OF NEW WORK:

1. EXCAVATE DOWN THE INSIDE FACE TO THE BASE OF THE STONE WALL. EXCAVATE FOR CONC. BASE OF NEW STONE WALL PLANTER.
2. DAMAGE TO EXIST. STONE RET. WALL ALONG I.F. OF WALL SHALL BE REVIEWED BY STRUC. ENG'R, @ WHICH TIME STRUC. ENG'R WILL DETERMINE THE EXTENT THE STONE BLOCK TO BE REPOINTED FROM I.F.. REFER TO DET. 1/S15.
3. INSTALL NEW C.I.P. CONC. RET. WALL ALONG THE I.F. OF STONE WALL. THE CONC. WALL WILL BE CAST IN 4 POURS (STRIP FTG., WALL, CANT. SLAB & CURB). REFER TO DET'S 1/S5 TO 1/S7.
4. INSTALL RIGID INSUL. & WEeping TILE ALONG I.F. OF NEW CONC. WALL. WEeping TILE SHALL DAYLIGHT @ N. END OF EXIST. STONE WALL. (THRU EXIST. CONC. FDN. WALL).
5. INSTALL NEW PLANTER (W/ A C.I.P. CONC. BASE & RUNDLE STONE MASONRY WALLS). PLANTER WALLS SHALL MATCH RET. WALL. REFER TO DET. 1/S12.
6. INSTALL NEW STORMWATER DRAIN. CONN. NEW DRAIN TO EXIST. DISCHARGE LINE. REFER TO DET. 1/S12.
7. B/FILL NEW RET. WALL AS SHOWN ON DET'S 1/S7 TO 1/S11.
8. INSTALL NEW ASPHALT PAVEMENT. REFER TO GEN. NOTES FOR TYPE OF ASPHALT & TYPE OF GRAVEL BASE. REFER TO DET. 1/S5 FOR T.O. PAVEMENT EL'S.
9. REPAIR DAMAGE TO EXIST. STONE RET. WALL ALONG O.F. OF WALL. REFER TO DET. 1/S15.
10. REMOVE ALL LOOSE STONES & LOOSE MORTAR FROM T.O. STONE RET. WALL & REINSTALL LOOSE STONE (APPROX. 25% OF STONE ALONG T.O. WALL).

1 PARTIAL PLAN @ EXIST. STONE RET. WALL SHOWING NEW WORK.
S4 SCALE - 1 : 100



REV.	DESCRIPTION	DATE
2	SIZE OF STORM DRAIN SLAB INCREASED	13 SEPT. 2021
1	POURS REVISED	27 JULY 2021
0	ISSUED FOR TENDER	21 JULY 2021

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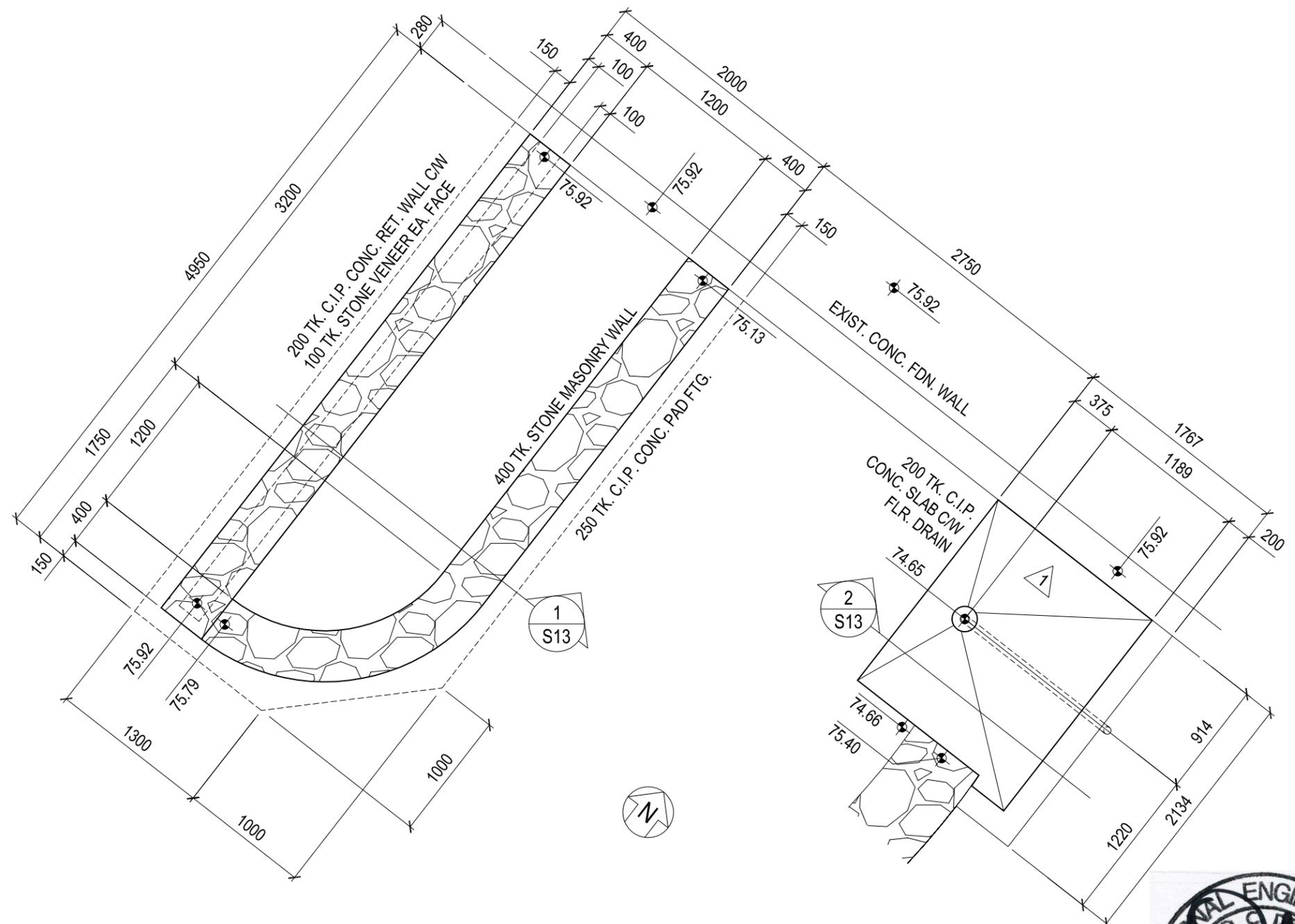
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NEW WORK PLAN

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DRAWING NUMBER:

S4



1 PARTIAL PLAN SHOWING NEW STONE WALL PLANTER & STORMWATER DRAIN.
 S12 SCALE - 1 : 40



PERMIT TO PRACTICE
 DC Dechka Consulting Engineers Limited
 Signature: *[Signature]*
 Date: 21 July 2021
PERMIT NUMBER: P 7869
 The Association of Professional Engineers,
 Geologists and Geophysicists of Alberta

REV.	DESCRIPTION	DATE
1	SIZE OF STORM DRAIN SLAB INCREASED	13 SEPT. 2021
0	ISSUED FOR TENDER	21 JULY 2021

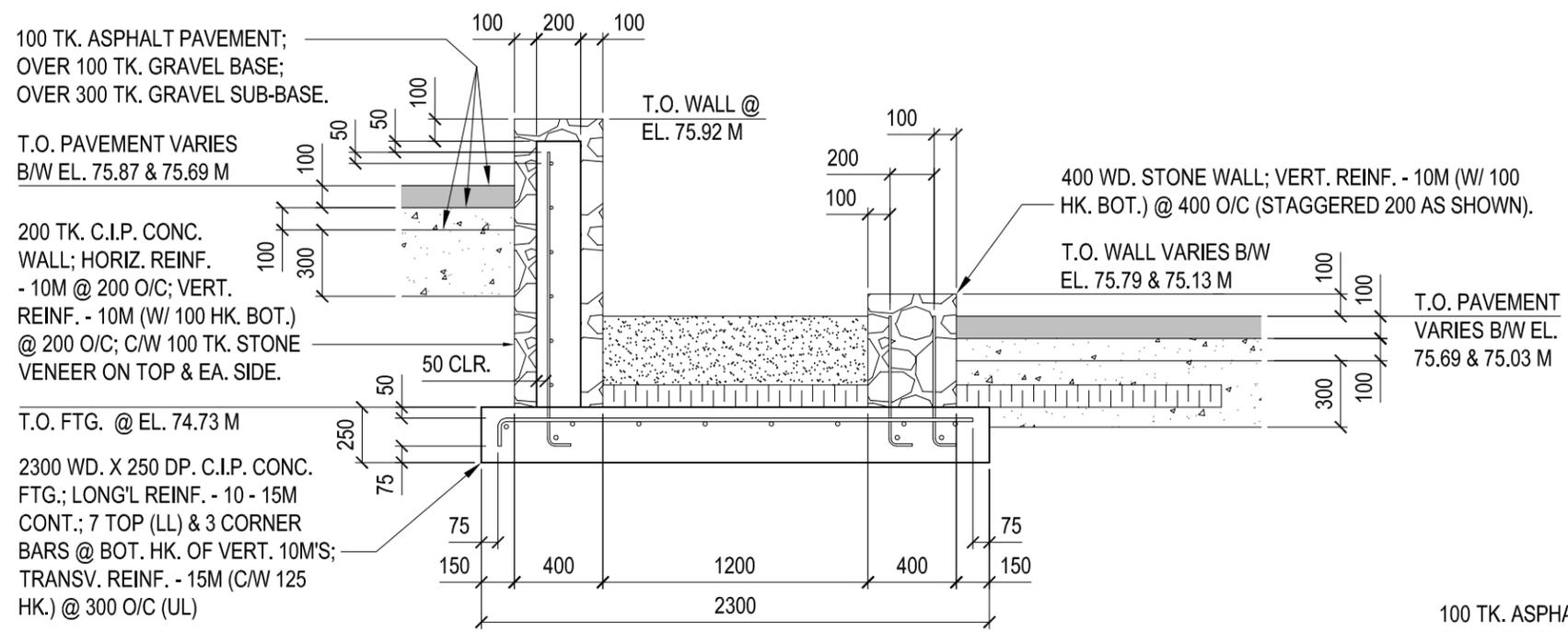
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**PARKS CANADA - UPPER BANFF HOT SPRINGS
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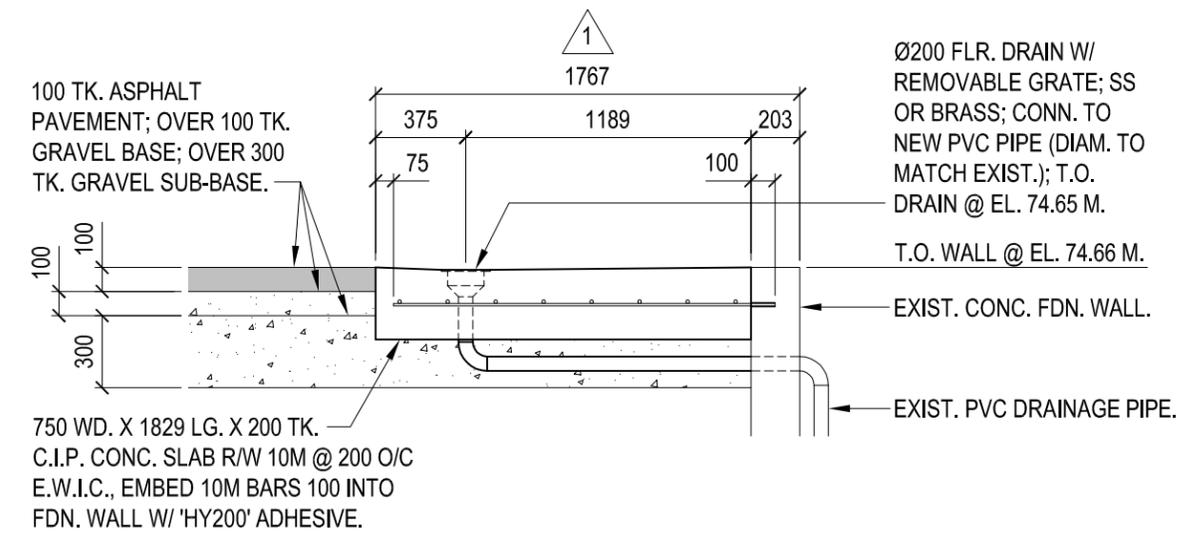
PLAN

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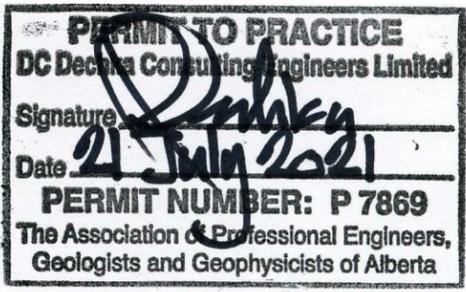
DRAWING NUMBER:
S12



1 X-SECTION THRU. STONE WALL PLANTER.
S13 SCALE - 1 : 30



2 X-SECTION THRU. STORM DRAIN.
S13 SCALE - 1 : 30



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1	SIZE OF STORM DRAIN SLAB INCREASED	13 SEPT. 2021
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CROSS-SECTIONS

PROJECT NUMBER:	21-153-01
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SCALE:	AS SHOWN
DRAWN:	D.C.
CHECKED:	D.D.

DRAWING NUMBER:

S13