

**DRAWING INDEX**

**OVERALL LAYOUT PLANS**

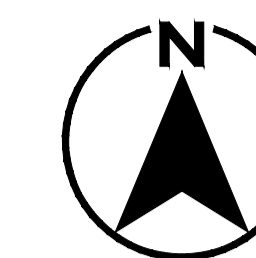
SHEET NO.	TITLE
C01	KEY PLAN AND DRAWING INDEX
C02	EXISTING CONTOURS AND OVERLAND DRAINAGE
C03	ELEVATION RANGES AND EXISTING STORM INFRASTRUCTURE

**PLAN AND PROFILE**

SHEET NO.	TITLE
D01A	DITCH PLAN AND PROFILE STA 0+100.000m TO 0+400.000m
D01B	DITCH PLAN AND PROFILE STA 0+400.000m TO 0+700.000m
D01C	DITCH PLAN AND PROFILE STA 0+700.000m TO 0+896.924m
D02	DITCH PLAN AND PROFILE STA 0+100.000m TO 0+380.163m
D03A	DITCH PLAN AND PROFILE STA 0+100.000m TO 0+364.805m
D03B	DITCH PLAN AND PROFILE STA 0+364.805m TO 0+591.766m
D04A	DITCH PLAN AND PROFILE STA 0+100.000m TO 0+400.000m
D04B	DITCH PLAN AND PROFILE STA 0+400.000m TO 0+700.000m
D04C	DITCH PLAN AND PROFILE STA 0+700.000m TO 0+985.000m
D04D	DITCH PLAN AND PROFILE STA 0+985.000m TO 1+300.000m
D04E	DITCH PLAN AND PROFILE STA 1+300.000m TO 1+556.401m
D04F	ROAD RE-GRADING PROFILE ABOVE NEW 900mm CULVERTS

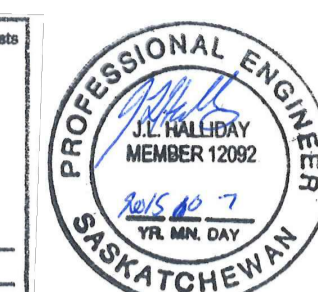
**STORMWATER STORAGE MANAGEMENT**

SHEET NO.	TITLE
D05	DETENTION POND EXPANSION
D06	DETAILS



395 MAXWELL CRESCENT  
 REGINA, SASKATCHEWAN, CANADA S4N 5X9  
 TEL: 306 585-1990 | FAX: 306 585-9113 | WWW.WSPGROUP.COM

SEAL:



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:

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IS.	RV.	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02 DATE: 2014-10-16

ORIGINAL SCALE: 1:3000

DESIGNED BY: J.D.F.

DRAWN BY: J.D.F.

CHECKED BY: J.L.H.

DISCIPLINE: MUNICIPAL INFRASTRUCTURE

TITLE:

**KEY PLAN AND DRAWING INDEX**

SHEET NUMBER: **C01**

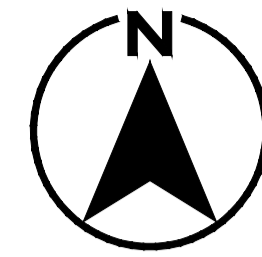
SHEET # 1 OF 17

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DATE OF: 2015/10/07

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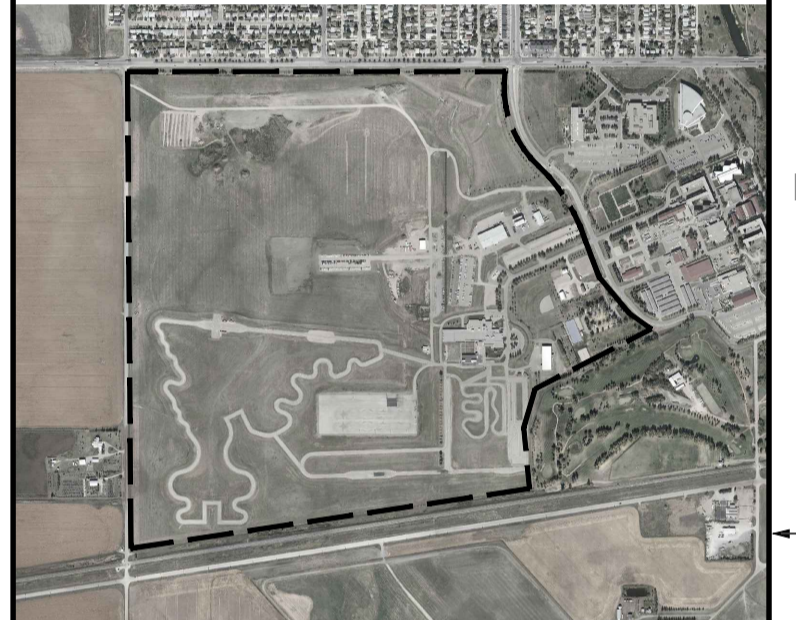
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CLIENT REF. #:

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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PROJECT NO: 14-076-02	DATE: 2014-10-16
ORIGINAL SCALE: 1:3000	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
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DRAWN BY: J.D.F.	
CHECKED BY: J.L.H.	

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

TITLE:

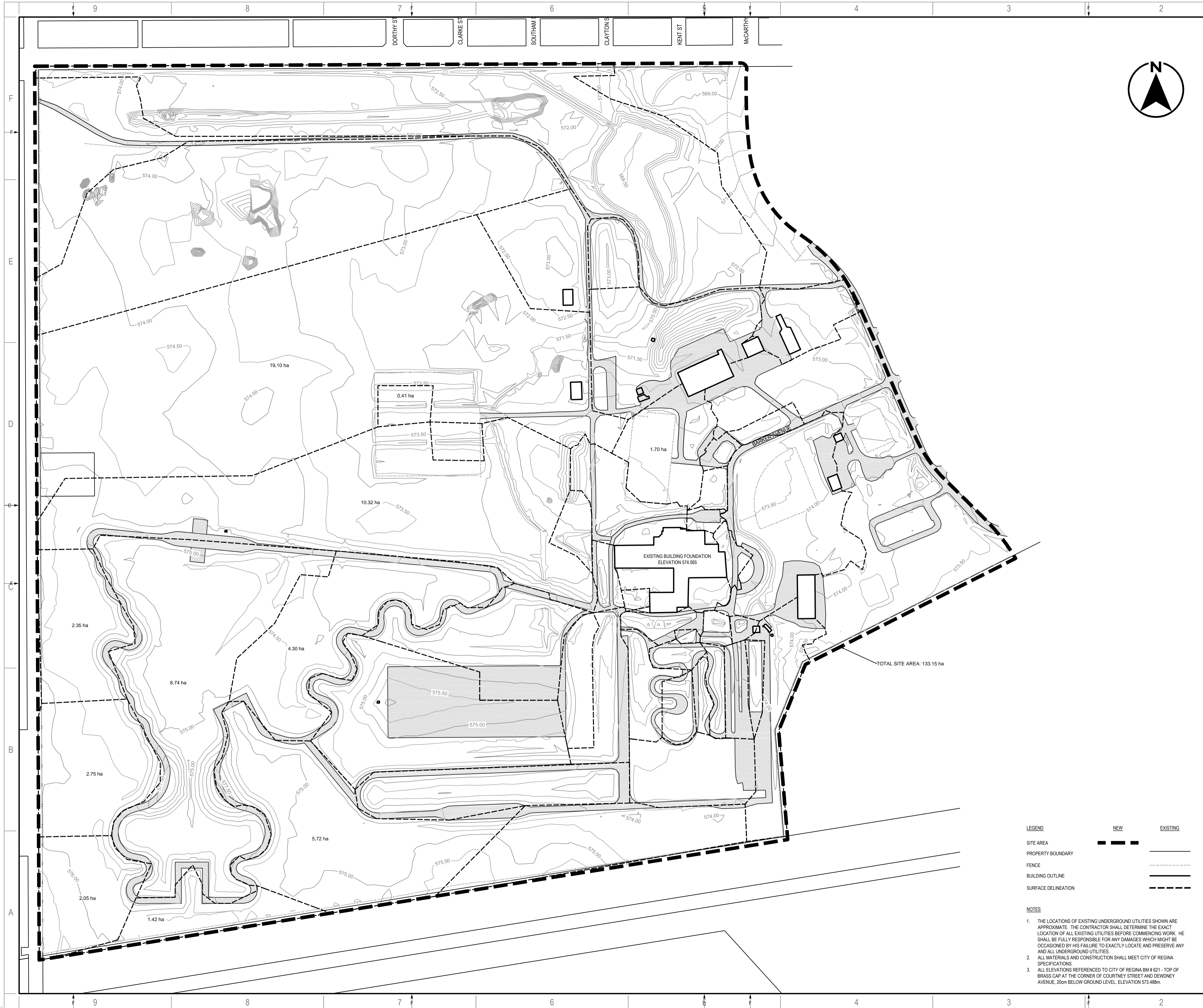
**EXISTING CONTOURS  
AND  
CATCHMENT AREAS**

SHEET NUMBER:  
**C02**

ISSUE:  
**ISSUED FOR TENDER**

DATE OF: 2015/10/07

RV. #  
**0**

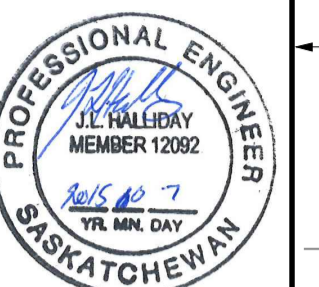


**LEGEND**

SITE AREA	---	NEW	---	EXISTING
PROPERTY BOUNDARY	---		---	
FENCE	---		---	
BUILDING OUTLINE	---		---	
SURFACE DELINEATION	---		---	

- NOTES**
1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
  2. ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.
  3. ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.

SEAL:



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #:

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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PROJECT NO:	DATE:
14-076-02	2014-10-16

ORIGINAL SCALE:	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
1:3000	

DESIGNED BY:	J.D.F.
DRAWN BY:	J.D.F.
CHECKED BY:	J.L.H.

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

TITLE: **ELEVATION RANGES AND EXISTING STORM INFRASTRUCTURE**

SHEET NUMBER: **C03**

ISSUE: **ISSUED FOR TENDER**

DATE OF: **2015/10/07**

ELEVATIONS TABLE			
INDEX	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	567.000	567.250	Blue
2	567.250	567.500	Blue
3	567.500	567.750	Blue
4	567.750	568.000	Blue
5	568.000	568.250	Blue
6	568.250	568.500	Blue
7	568.500	568.750	Blue
8	568.750	569.000	Blue
9	569.000	569.250	Blue
10	569.250	569.500	Blue
11	569.500	569.750	Blue
12	569.750	570.000	Blue
13	570.000	570.250	Blue
14	570.250	570.500	Blue
15	570.500	570.750	Blue
16	570.750	571.000	Blue
17	571.000	571.250	Blue
18	571.250	571.500	Blue
19	571.500	571.750	Blue
20	571.750	572.000	Blue
21	572.000	572.250	Blue
22	572.250	572.500	Blue
23	572.500	572.750	Blue
24	572.750	573.000	Blue
25	573.000	573.250	Blue
26	573.250	573.500	Blue
27	573.500	573.750	Blue
28	573.750	574.000	Blue
29	574.000	574.250	Blue
30	574.250	574.500	Blue
31	574.500	574.750	Blue
32	574.750	575.000	Blue
33	575.000	575.250	Blue
34	575.250	575.500	Blue
35	575.500	575.750	Blue
36	575.750	576.000	Blue
37	576.000	576.250	Blue
38	576.250	576.500	Blue
39	576.500	576.750	Blue
40	576.750	577.000	Blue
41	577.000	577.250	Blue
42	577.250	577.500	Blue
43	577.500	577.750	Blue
44	577.750	578.000	Blue
45	578.000	578.250	Blue

CULVERTS TO BE REPLACED	EXISTING DIAMETER (mm)	REPLACE WITH
C35	400	2 x 450 mm
C34	450	2 x 450 mm
C32	400	2 x 450 mm
C30	400	2 x 750 mm
C39	450	2 x 1050 mm
C42/C43	400/600	2 x 1050 mm
C45	300	3 x 900 mm
C4	300	1 x 525 mm
C5	300	1 x 600 mm
C23	300	2 x 425 mm
C24	525	1 x 750 mm
C28	425	2 x 600 mm

**LEGEND**

**SITE AREA** [Symbol]

**PROPERTY BOUNDARY** [Symbol]

**STORM SEWER CULVERT** [Symbol]

**STORM DITCH** [Symbol]

**FENCE** [Symbol]

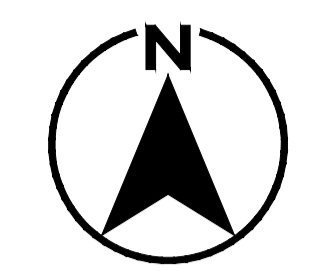
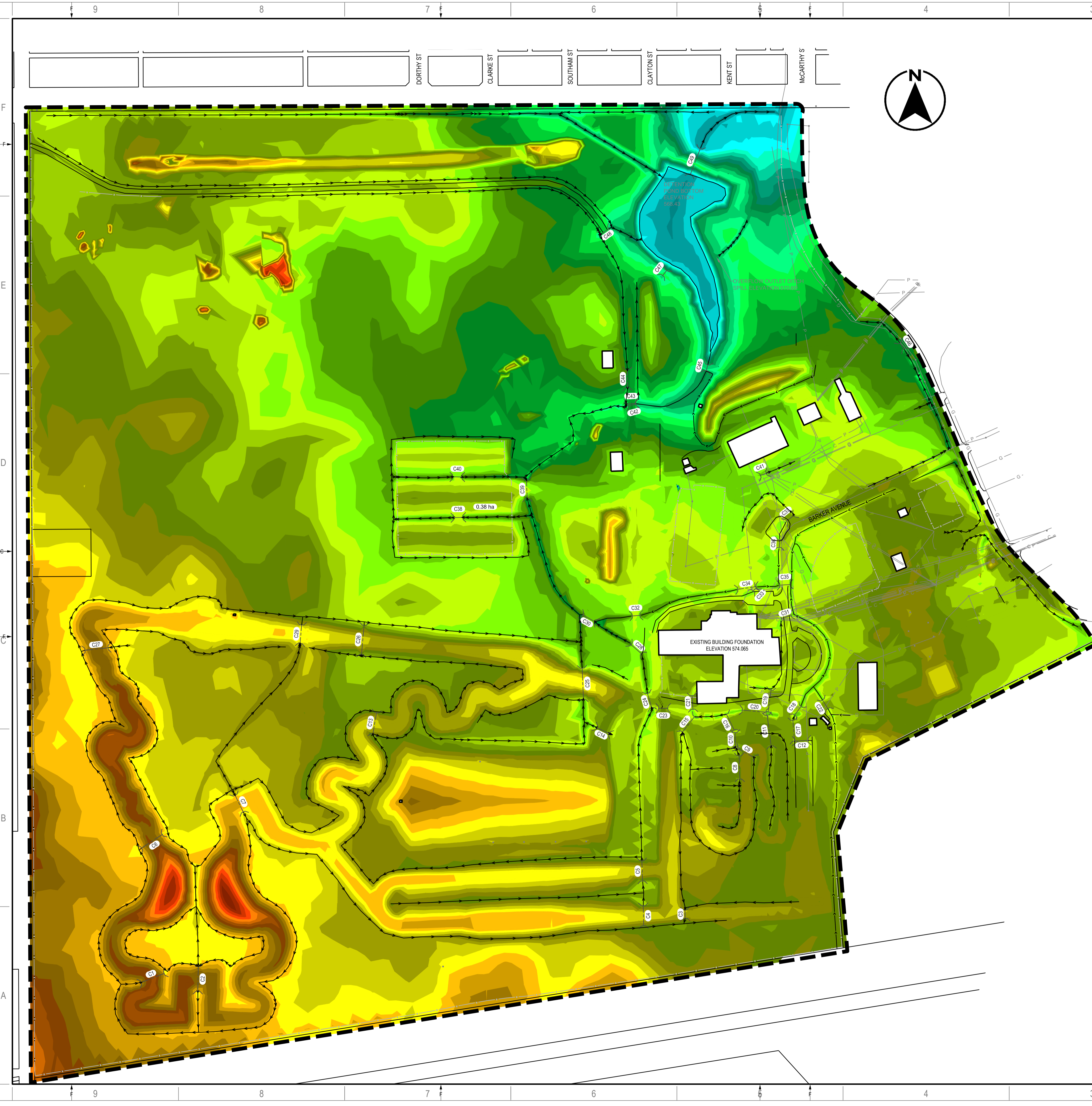
**BUILDING OUTLINE** [Symbol]

**UNDERGROUND POWER** [Symbol]

**UNDERGROUND COMMUNICATIONS** [Symbol]

**UNDERGROUND GAS** [Symbol]

- NOTES**
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
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Number Code: \_\_\_\_\_  
Permission to Consult held by: \_\_\_\_\_  
Discipline: Civil St. Reg. No. 12092 Signature: [Signature]



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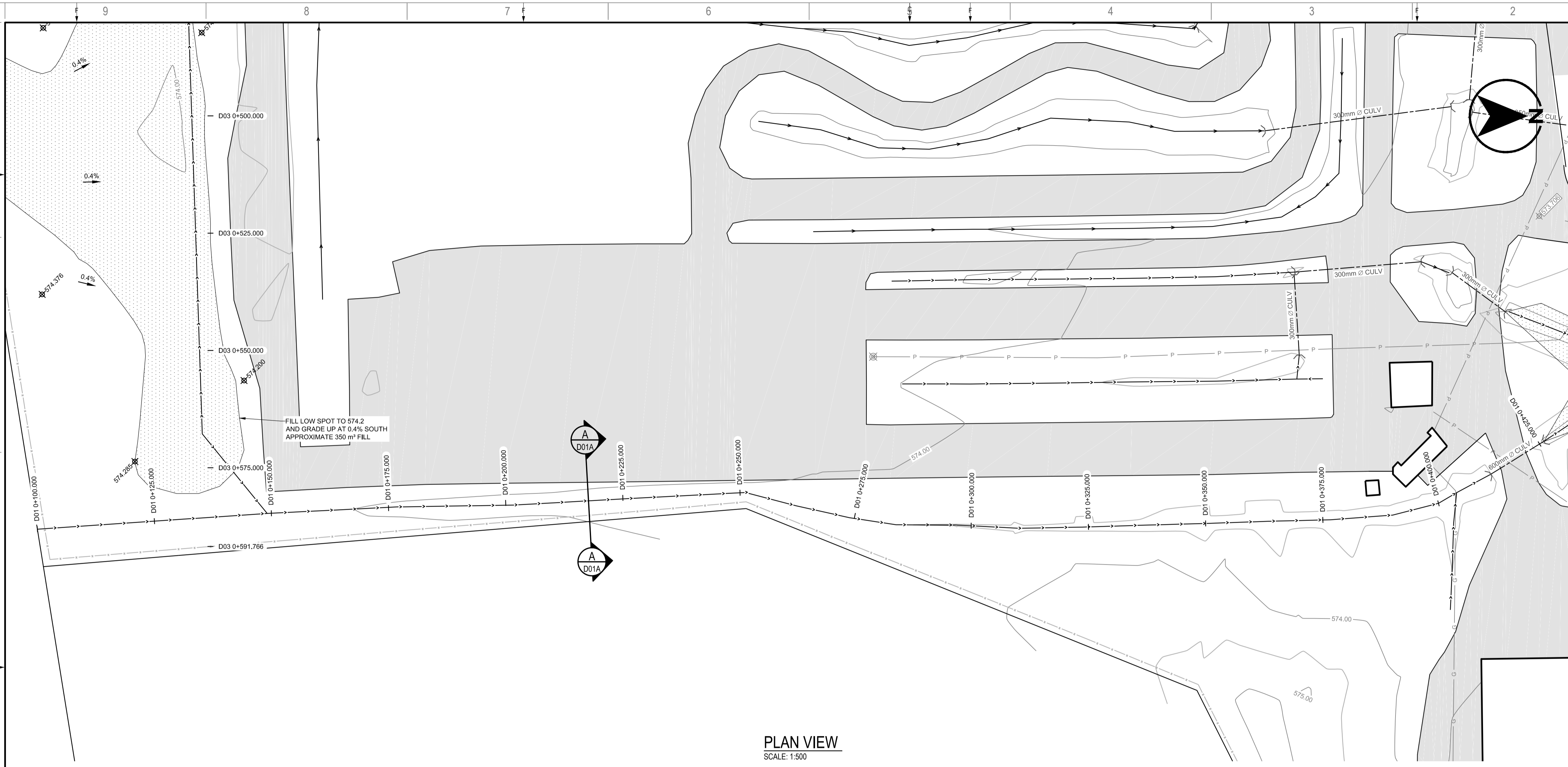
PROJECT:

**SITE DRAINAGE UPGRADES**

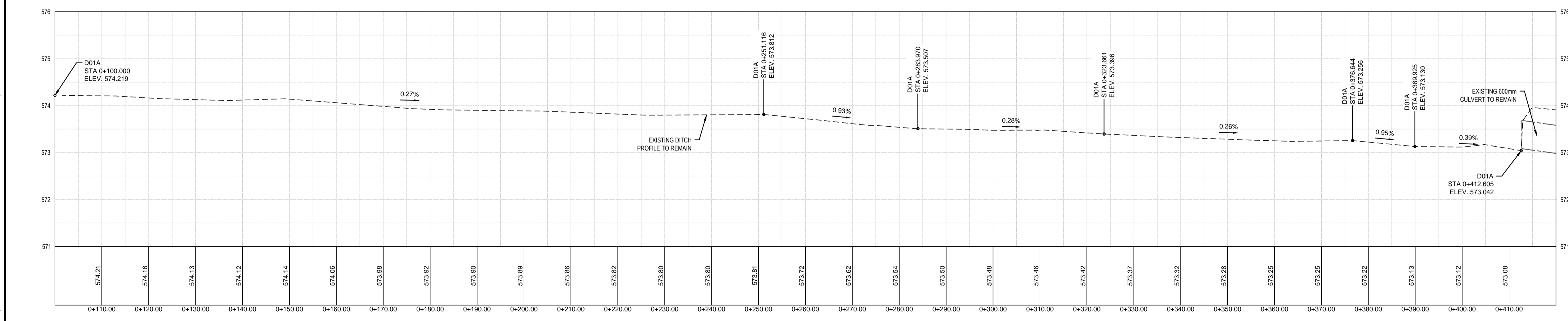
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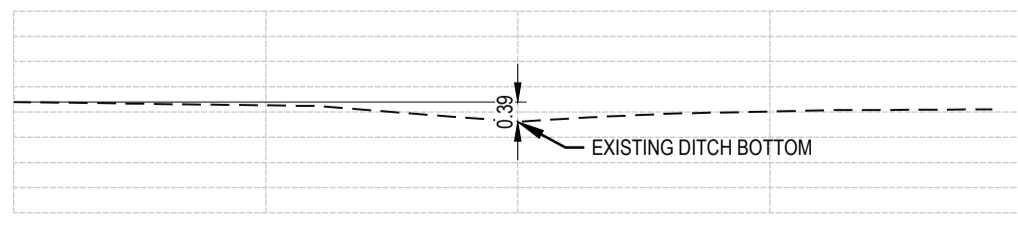
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**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50



**SECTION A-A**  
SCALE: 1:150

**LEGEND**

PROPERTY BOUNDARY	---
STORM SEWER CULVERT	---(---)
DITCH CENTERLINE	---
FENCE	--- ---
BUILDING OUTLINE	---
EXISTING ASPHALT	---(---)
AREAS WITH NO EXISTING DRAINAGE	---
UNDERGROUND POWER	P
UNDERGROUND COMMUNICATIONS	C
UNDERGROUND GAS	G

**LEGEND**

NEW	---
EXISTING	---
SLOPE DIRECTION	---
GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	---
LIGHT POLE	---

**LEGEND**

NEW	---
EXISTING	---
SLOPE DIRECTION	---
GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	---
LIGHT POLE	---

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PROJECT NO:	14-076-02	DATE:	2014-10-16
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	J.D.F.		
DRAWN BY:	J.D.F.		
CHECKED BY:	J.L.H.		

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

TITLE: **DITCH PLAN AND PROFILE  
STA 0+100.000m TO 0+420.000m**

SHEET NUMBER: **D01A**

ISSUE: **ISSUED FOR TENDER**

DATE OF: **2015/10/07**

RV.#: **0**

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Discipline: Civil St. Reg. No. 12092 Signature: [Signature]

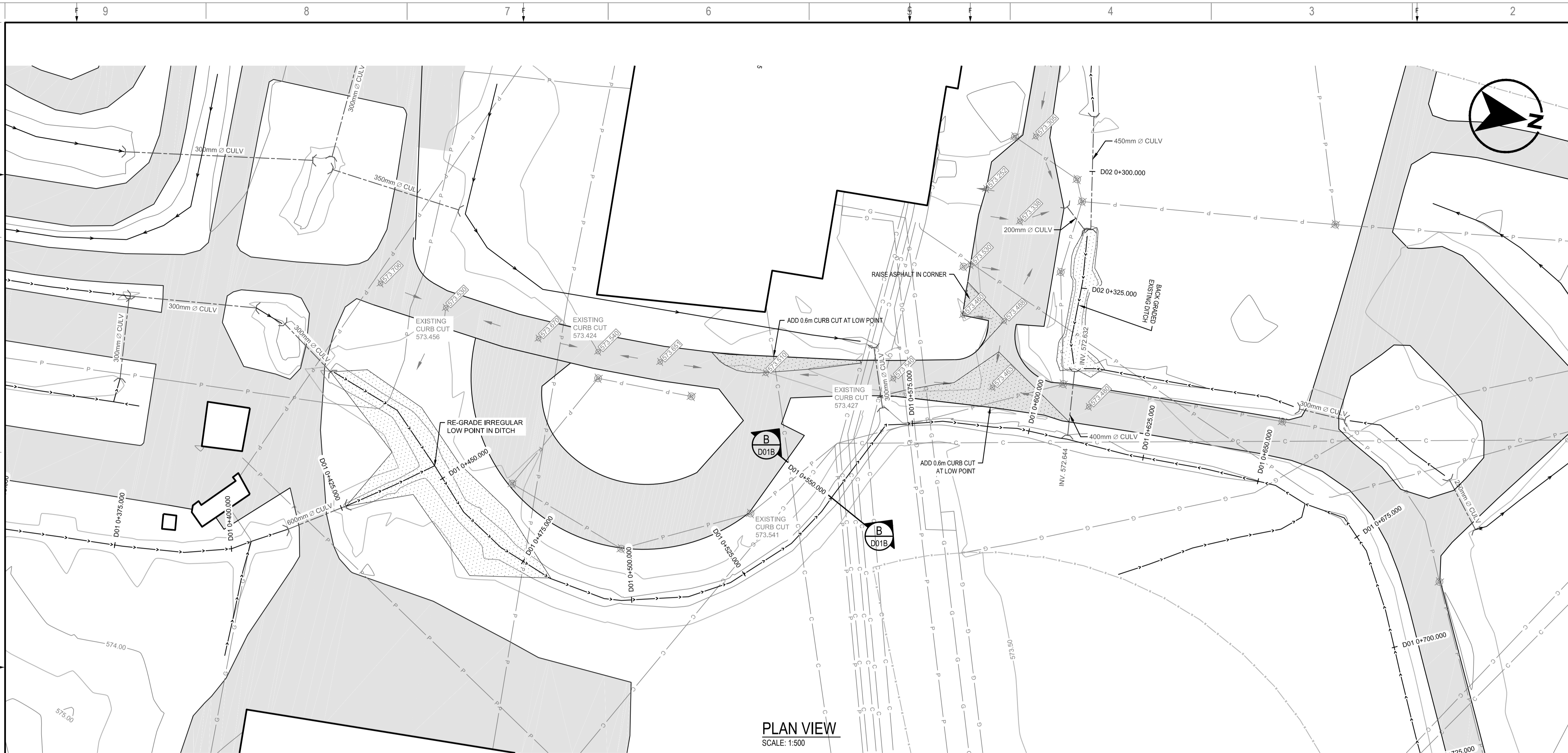
**PROFESSIONAL ENGINEER**  
J.L. HALLIBURY  
MEMBER 12092  
YR. MK. DAY

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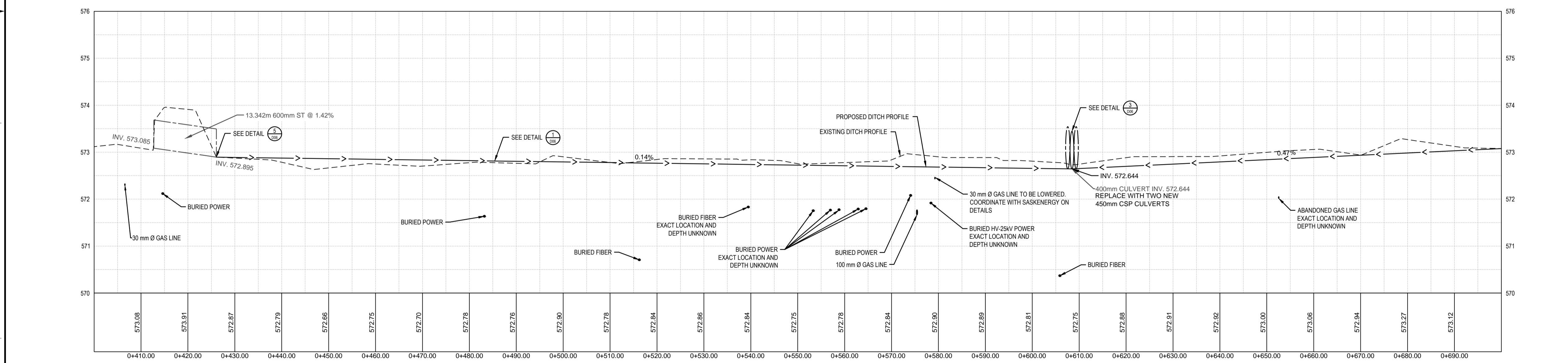
CLIENT REF. #:  
PROJECT:  
**SITE DRAINAGE UPGRADES**



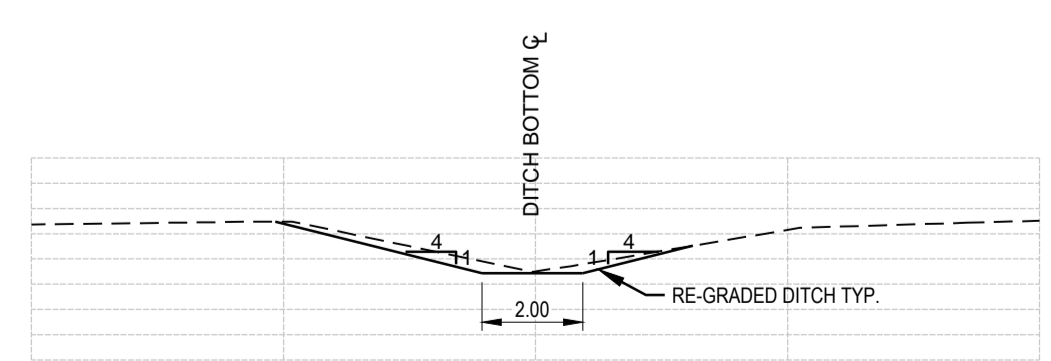
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**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50



**SECTION**  
SCALE: 1:150

**LEGEND**

NEW	EXISTING
PROPERTY BOUNDARY	---
STORM SEWER CULVERT	---
DITCH CENTERLINE	---
FENCE	---
BUILDING OUTLINE	---
EXISTING ASPHALT	---
AREAS WITH NO EXISTING DRAINAGE	---
UNDERGROUND POWER	P
UNDERGROUND COMMUNICATIONS	C
UNDERGROUND GAS	G

**LEGEND**

NEW	EXISTING
SLOPE DIRECTION	---
GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	---
LIGHT POLE	---

**NOTES**

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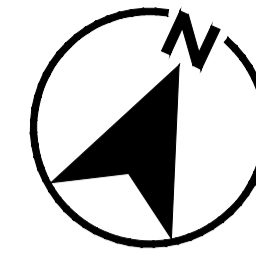
DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

TITLE:  
**DITCH PLAN AND PROFILE**  
**STA 0+400.000m TO 0+700.000m**

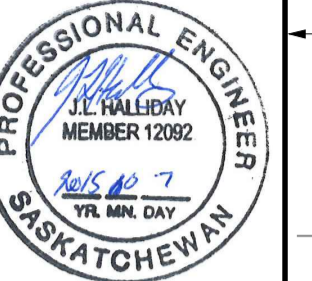
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**D01B**  
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ISSUE:  
**ISSUED FOR TENDER**  
DATE: 2015/10/07

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**0**



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CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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ORIGINAL SCALE: AS SHOWN

DESIGNED BY: J.D.F.

DRAWN BY: J.D.F.

CHECKED BY: J.L.H.

DISCIPLINE: MUNICIPAL INFRASTRUCTURE

TITLE: DITCH PLAN AND PROFILE STA 0+700.00m TO 0+896.924m

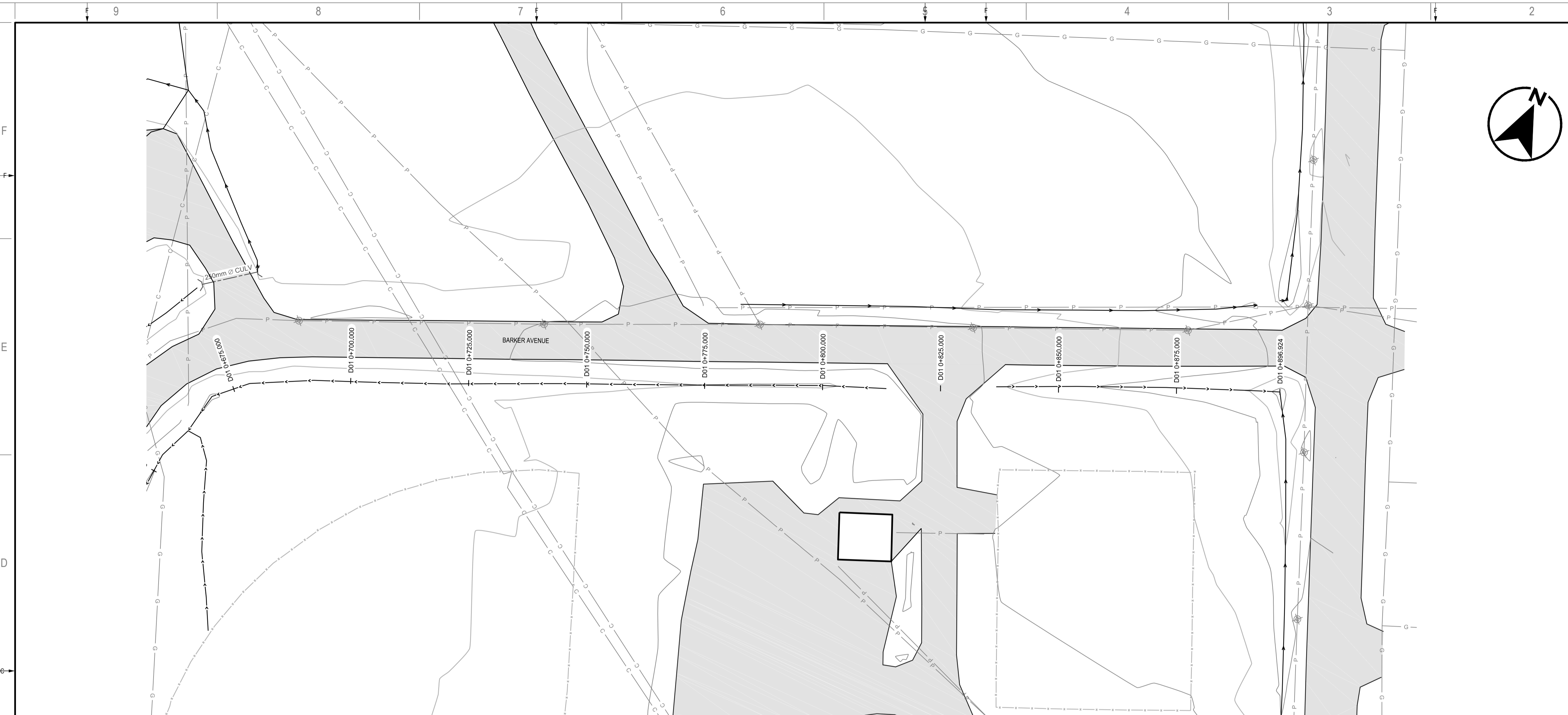
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SHEET # 6 OF 17

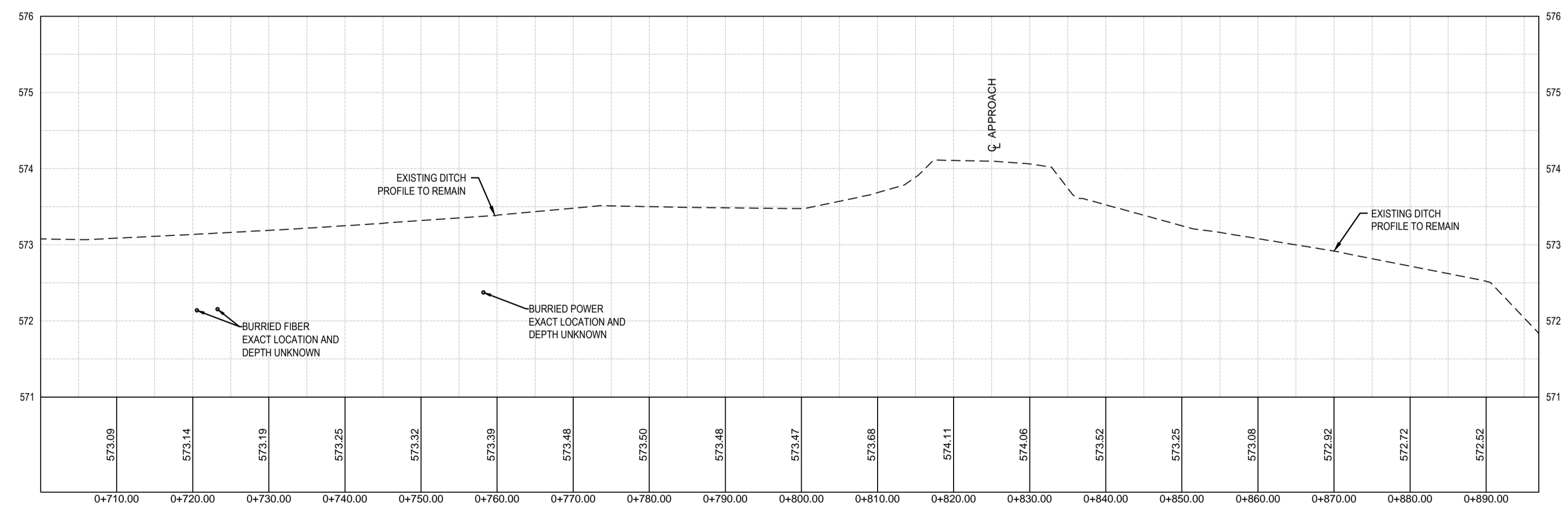
ISSUE: ISSUED FOR TENDER

DATE OF: 2015/10/07

RV # 0



**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50

LEGEND	NEW	EXISTING
PROPERTY BOUNDARY	—	—
STORM SEWER CULVERT	—	—
DITCH CENTERLINE	—	—
FENCE	—	—
BUILDING OUTLINE	—	—
EXISTING ASPHALT	—	—
AREAS WITH NO EXISTING DRAINAGE	—	—
UNDERGROUND POWER	P	P
UNDERGROUND COMMUNICATIONS	C	C
UNDERGROUND GAS	G	G

LEGEND	NEW	EXISTING
SLOPE DIRECTION	—	—
GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	—	—
LIGHT POLE	—	—
NOTES		

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Discipline: Civil St. Reg. No. 12092 Signature: [Signature]



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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DESIGNED BY: J.D.F.

DRAWN BY: J.D.F.

CHECKED BY: J.L.H.

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

TITLE: **DITCH PLAN AND PROFILE STA 0+100.000 TO 0+380.163m**

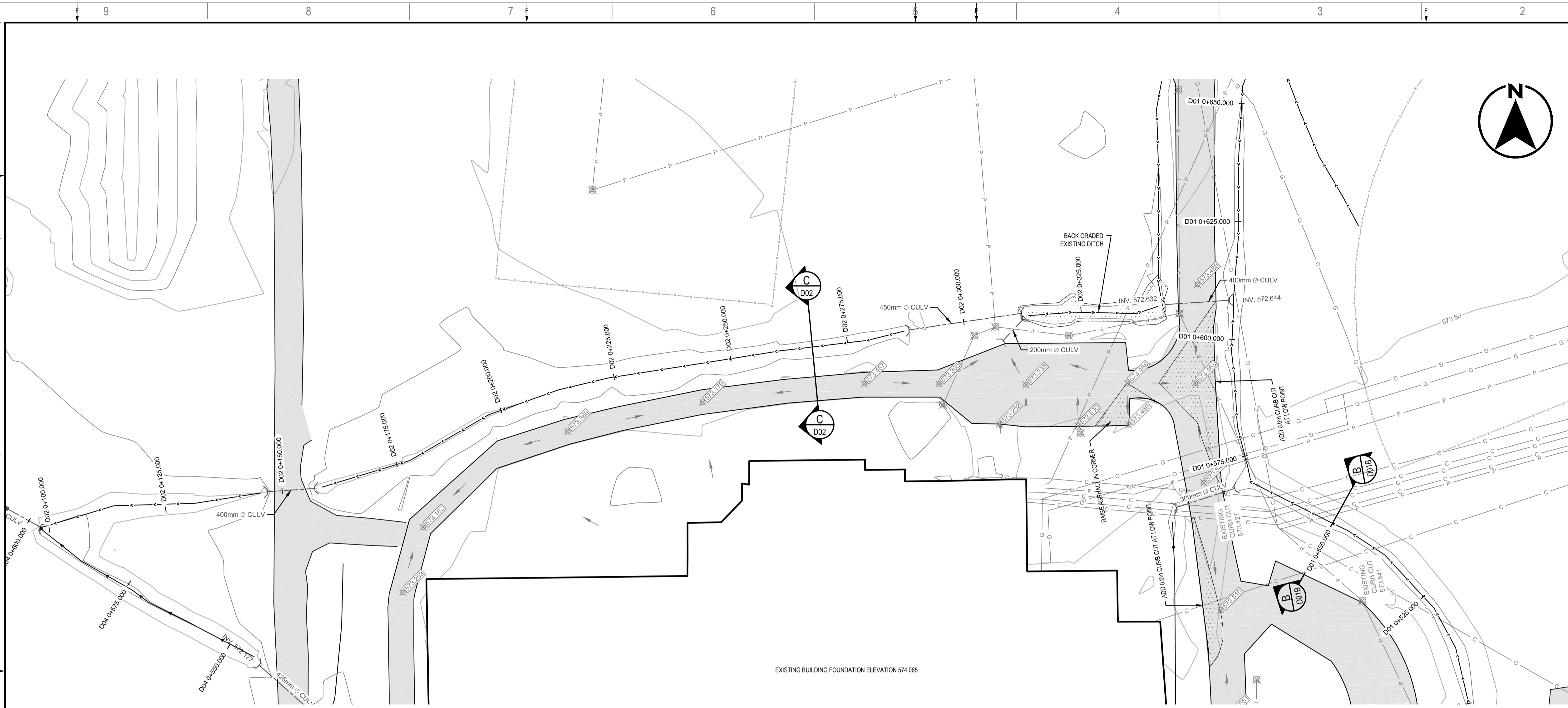
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ISSUE: **ISSUED FOR TENDER**

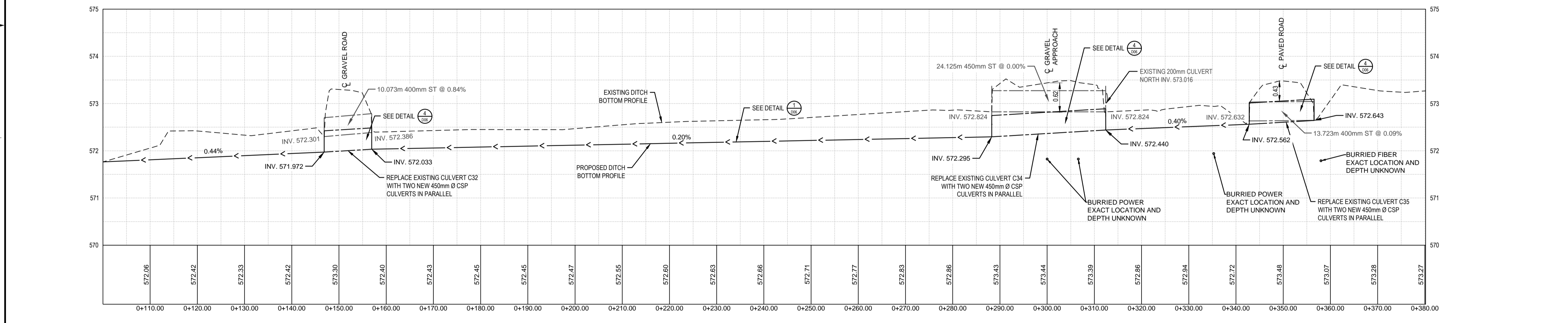
SHEET # 7 OF 17

DATE OF: 2015/10/07

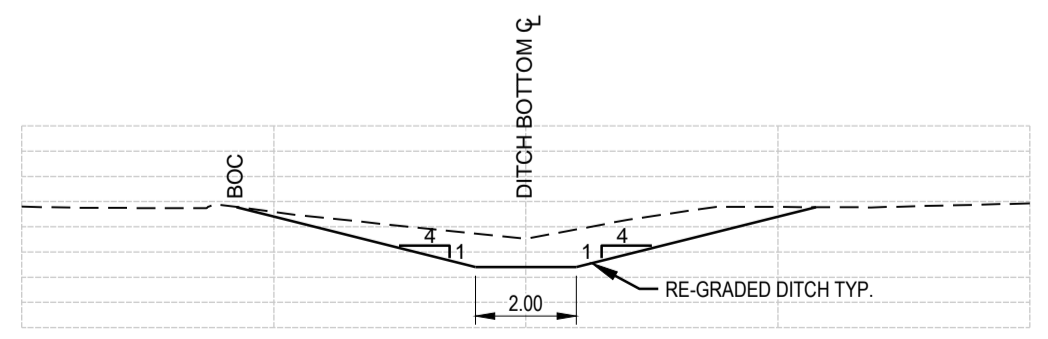
RV. # **0**



**PLAN VIEW**  
SCALE: 1:500

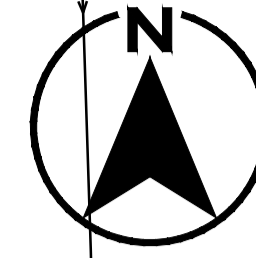


**PROFILE VIEW**  
SCALE: H=1:500 V=1:50



**SECTION C-D02**  
SCALE: 1:150

<b>LEGEND</b>	<b>NEW</b>	<b>EXISTING</b>	<b>LEGEND</b>	<b>NEW</b>	<b>EXISTING</b>
PROPERTY BOUNDARY	—	—	SLOPE DIRECTION	2% ↘	2% ↘
STORM SEWER CULVERT	—	—	GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	—	—
DITCH CENTERLINE	—	—	LIGHT POLE	—	—
FENCE	—	—	<b>NOTES</b>		
BUILDING OUTLINE	—	—	1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.		
EXISTING ASPHALT	—	—	2. ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.		
AREAS WITH NO EXISTING DRAINAGE	—	—	3. ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.		
UNDERGROUND POWER	P	P			
UNDERGROUND COMMUNICATIONS	C	C			
UNDERGROUND GAS	G	G			



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Association of Professional Engineers & Geoscientists  
of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
WSP Canada Inc.  
Number Code  
Permission to Consult held by:  
Discipline St. Reg. No. Signature  
Civil 12092



CLIENT:

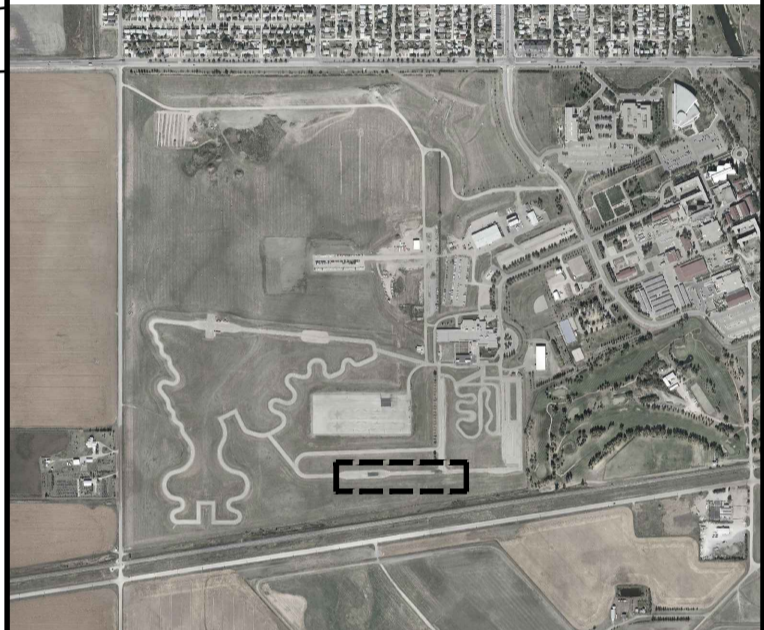
**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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ISSUED FOR - REVISION

IS.	RV.	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02	DATE: 2014-10-16
ORIGINAL SCALE: AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: J.D.F.	
DRAWN BY: J.D.F.	
CHECKED BY: J.L.H.	

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

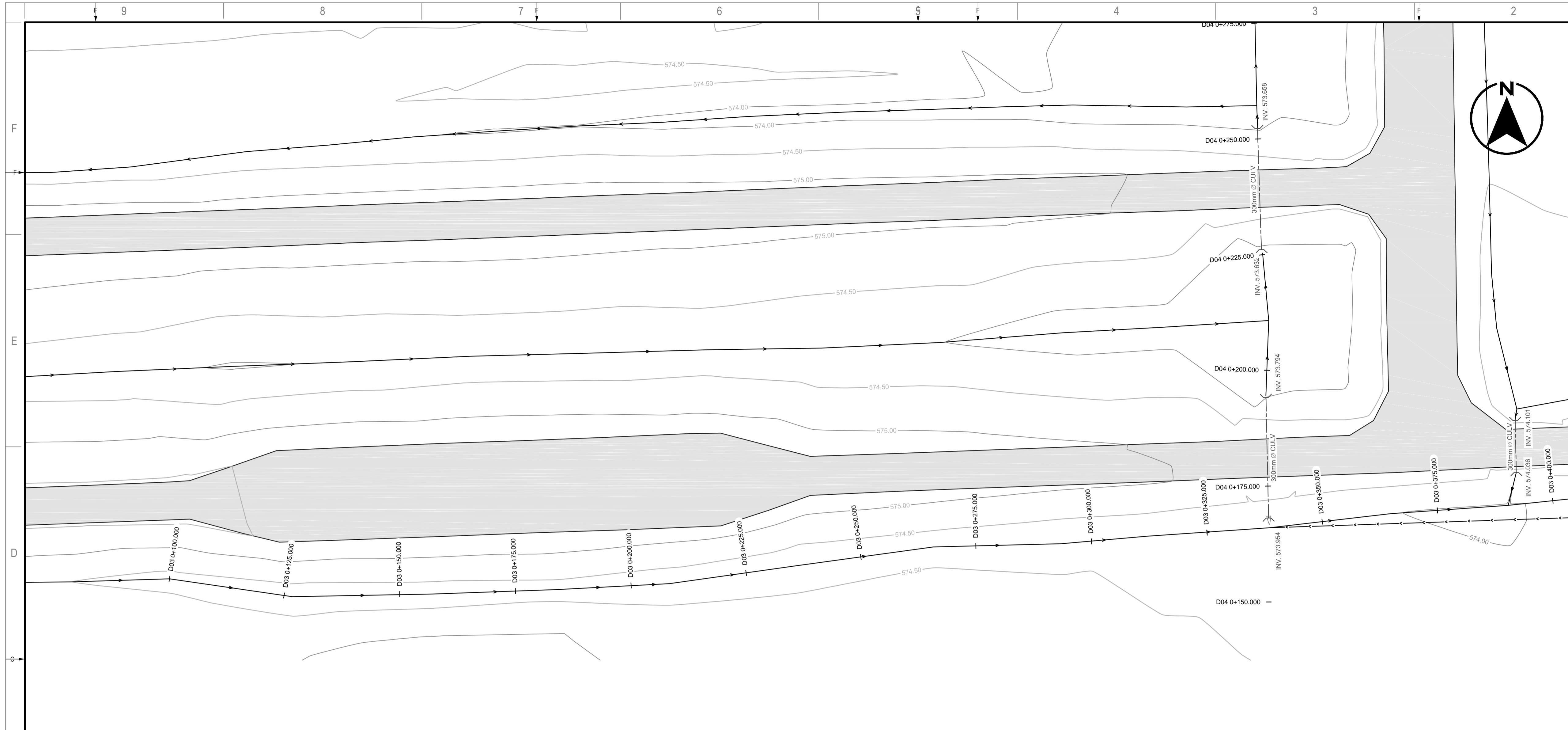
TITLE:

**DITCH PLAN AND PROFILE  
STA 0+100.000m TO 0+364.805m**

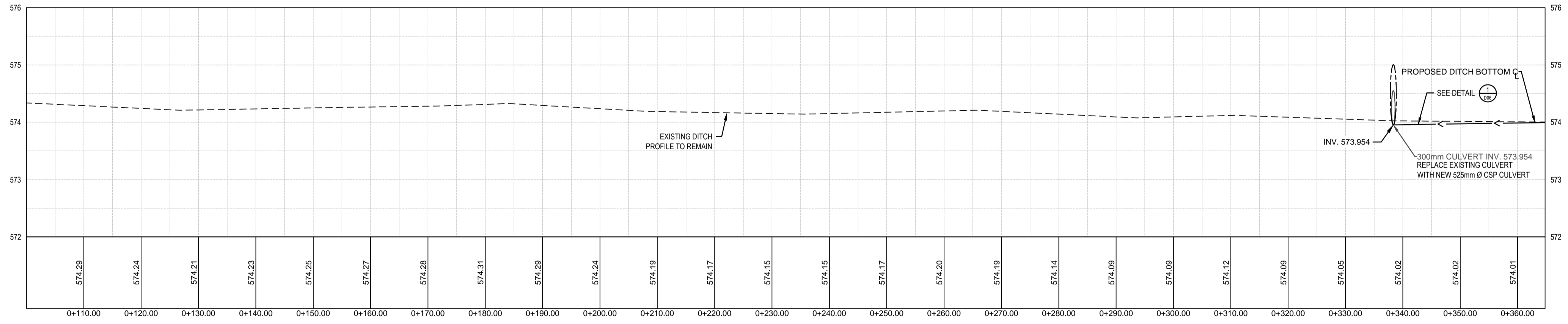
SHEET NUMBER:  
**D03A**

ISSUE:  
**ISSUED FOR TENDER**

DATE OF: 2015/10/07



**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50

**LEGEND**

PROPERTY BOUNDARY	---
STORM SEWER CULVERT	— — — — —
DITCH CENTERLINE	— — — — —
FENCE	— — — — —
BUILDING OUTLINE	— — — — —
EXISTING ASPHALT	▒
AREAS WITH NO EXISTING DRAINAGE	▒
UNDERGROUND POWER	P
UNDERGROUND COMMUNICATIONS	C
UNDERGROUND GAS	G

**LEGEND**

SLOPE DIRECTION	→
GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	—
LIGHT POLE	⊙

**NOTES**

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.
- ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.

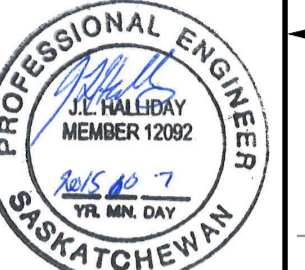
**LEGEND**

NEW	→
EXISTING	→



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WSP Canada Inc.  
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Civil 12092



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



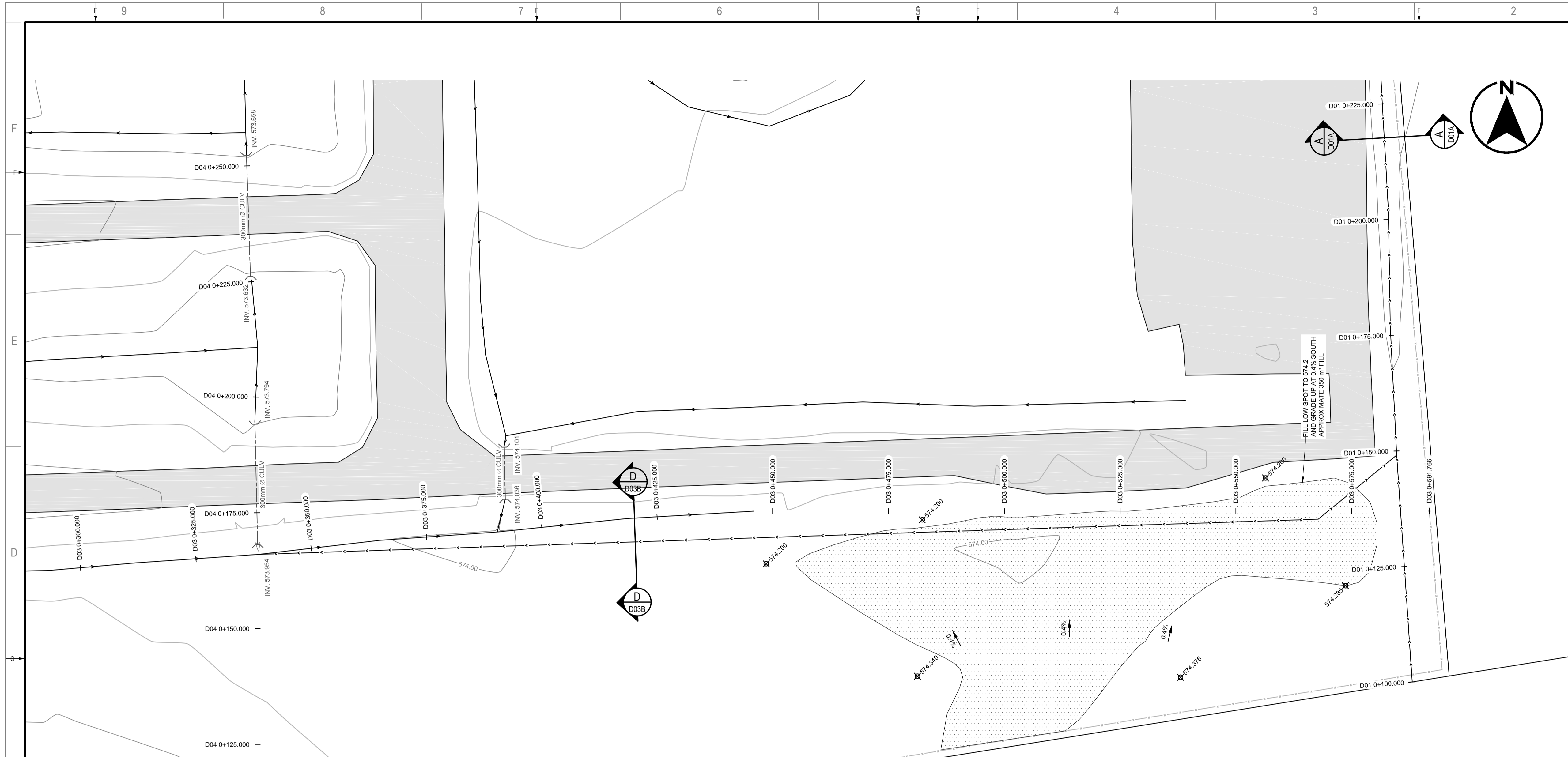
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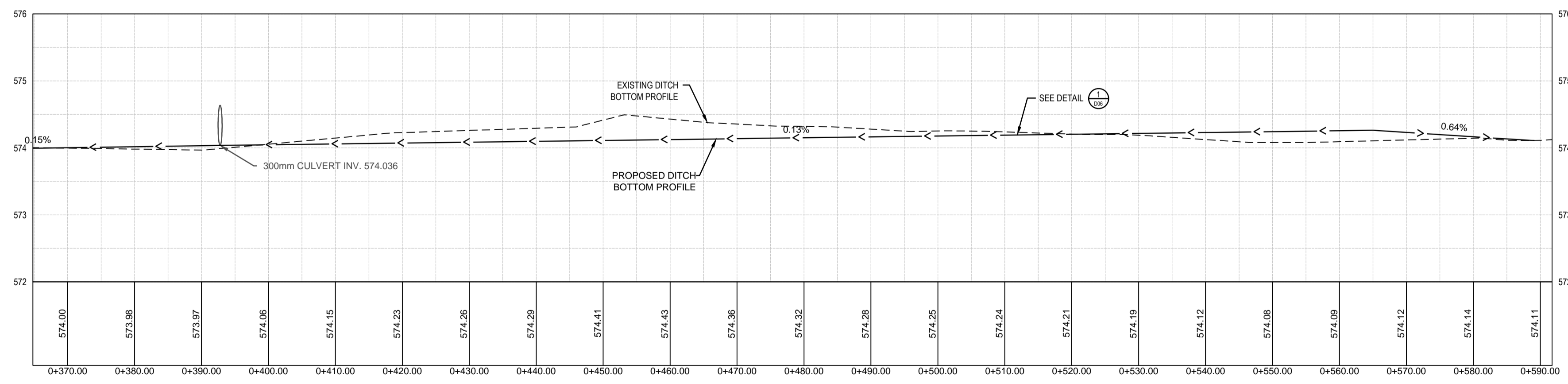
IS	RV	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02	DATE: 2014-10-16
ORIGINAL SCALE: AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: J.D.F.	
DRAWN BY: J.D.F.	
CHECKED BY: J.L.H.	

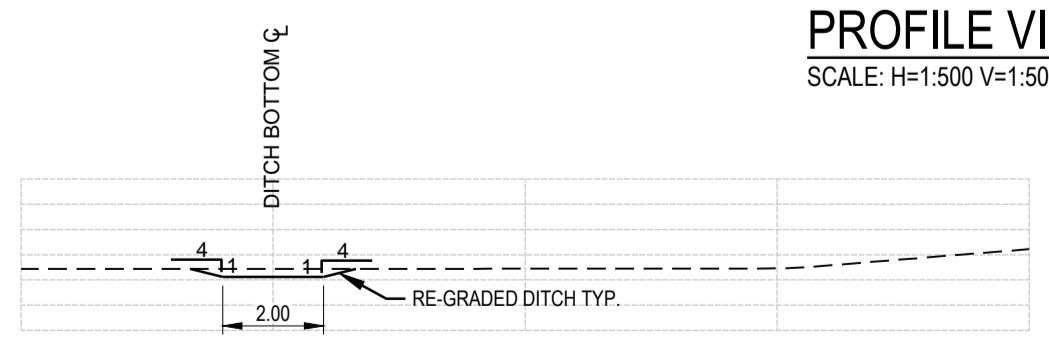
DISCIPLINE: <b>MUNICIPAL INFRASTRUCTURE</b>
TITLE: <b>DITCH PLAN AND PROFILE STA 0+364.805m TO 0+591.766m</b>
SHEET NUMBER: <b>D03B</b>
ISSUE: <b>ISSUED FOR TENDER</b>
DATE OF: 2015/10/07



**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50



**SECTION**  
SCALE: 1:150

- |                                 |            |                 |  |            |                 |
|---------------------------------|------------|-----------------|--|------------|-----------------|
| <b>LEGEND</b>                   | <b>NEW</b> | <b>EXISTING</b> | <b>LEGEND</b>  | <b>NEW</b> | <b>EXISTING</b> |
| PROPERTY BOUNDARY               | —          | —               | SLOPE DIRECTION  | 2%         | 2%              |
| STORM SEWER CULVERT             | —          | —               | GROUND OR ASPHALT ELEVATION  | 574.280    | 574.280         |
| DITCH CENTERLINE                | —          | —               | UNLESS SPECIFIED OTHERWISE   |            |                 |
| FENCE                           | —          | —               | LIGHT POLE   |            |                 |
| BUILDING OUTLINE                | —          | —               | <b>NOTES</b>   |            |                 |
| EXISTING ASPHALT                | —          | —               | 1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. |            |                 |
| AREAS WITH NO EXISTING DRAINAGE | —          | —               | 2. ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.  |            |                 |
| UNDERGROUND POWER               | P          | P               | 3. ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.   |            |                 |
| UNDERGROUND COMMUNICATIONS      | C          | C               |  |            |                 |
| UNDERGROUND GAS                 | G          | G               |  |            |                 |

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Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
WSP Canada Inc.  
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Permission to Consult held by:  
Discipline: Civil St. Reg. No. 12092 Signature: [Signature]



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #:

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



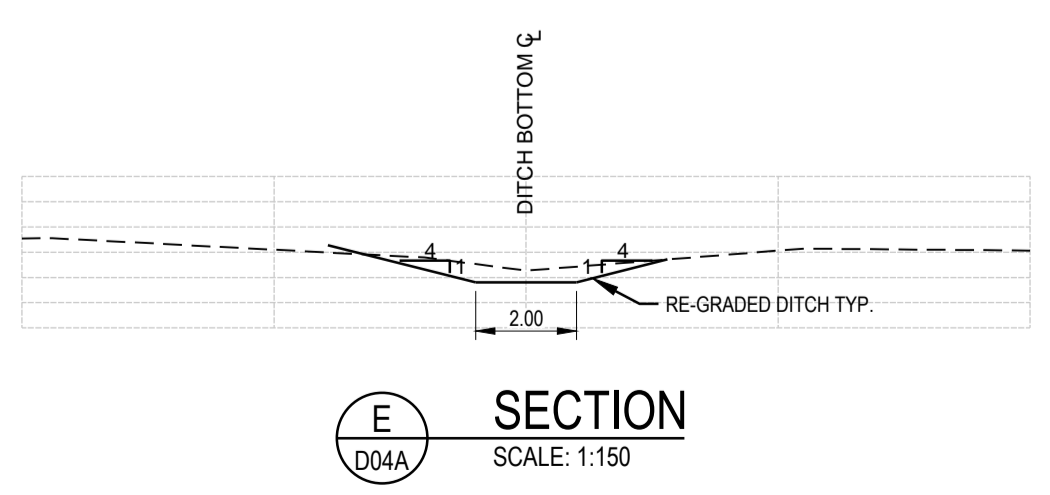
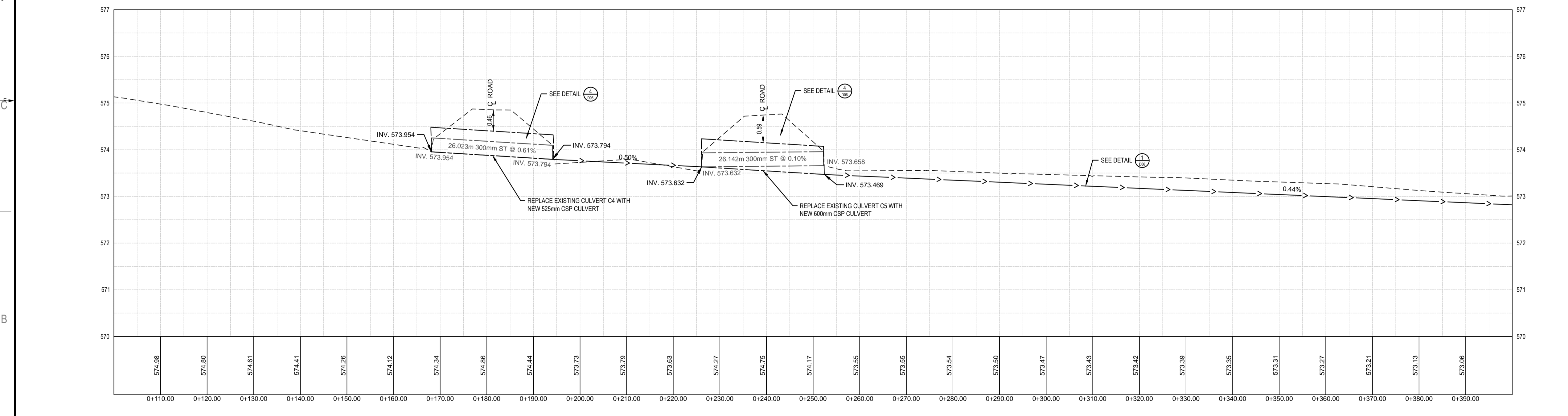
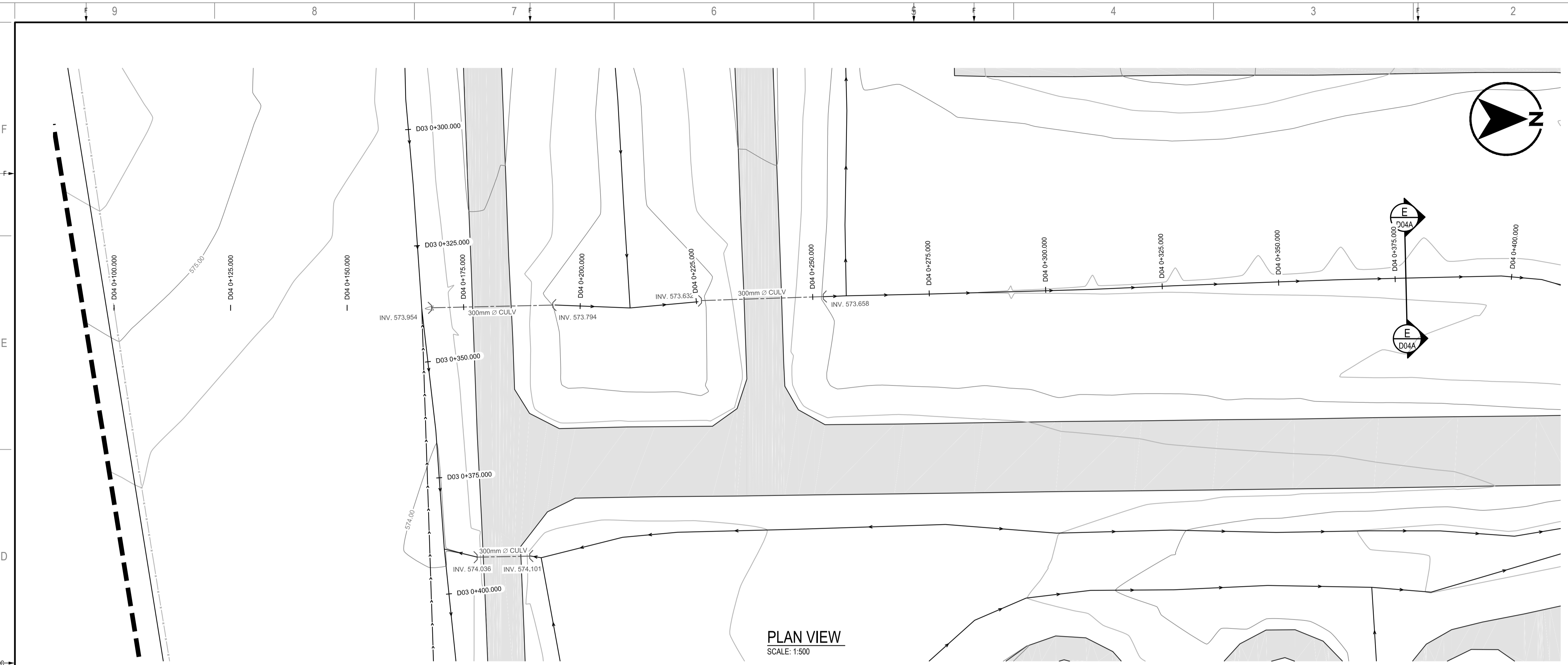
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ISSUED FOR - REVISION:

IS	RV	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02	DATE: 2014-10-16
ORIGINAL SCALE: AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: J.D.F.	
DRAWN BY: J.D.F.	
CHECKED BY: J.L.H.	

DISCIPLINE: <b>MUNICIPAL INFRASTRUCTURE</b>	
TITLE: <b>DITCH PLAN AND PROFILE STA 0+100.000m TO 0+400.000m</b>	
SHEET NUMBER: <b>D04A</b>	RV.# <b>0</b>
ISSUE: <b>ISSUED FOR TENDER</b>	
DATE OF: 2015/10/07	



- LEGEND**
- PROPERTY BOUNDARY
  - STORM SEWER CULVERT
  - DITCH CENTERLINE
  - FENCE
  - BUILDING OUTLINE
  - EXISTING ASPHALT
  - AREAS WITH NO EXISTING DRAINAGE
  - UNDERGROUND POWER
  - UNDERGROUND COMMUNICATIONS
  - UNDERGROUND GAS
- LEGEND**
- SLOPE DIRECTION
  - GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE
  - LIGHT POLE
- NOTES**
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
  - ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.
  - ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.

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Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
WSP Canada Inc.  
Number Code: 12092  
Permission to Consult held by:  
Discipline: Civil St. Reg. No. 12092 Signature: [Signature]  
**PROFESSIONAL ENGINEER**  
J.L. HALLIBURY  
MEMBER 12092  
YR. ANN. DATE: [Date]  
SASKATCHEWAN

CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

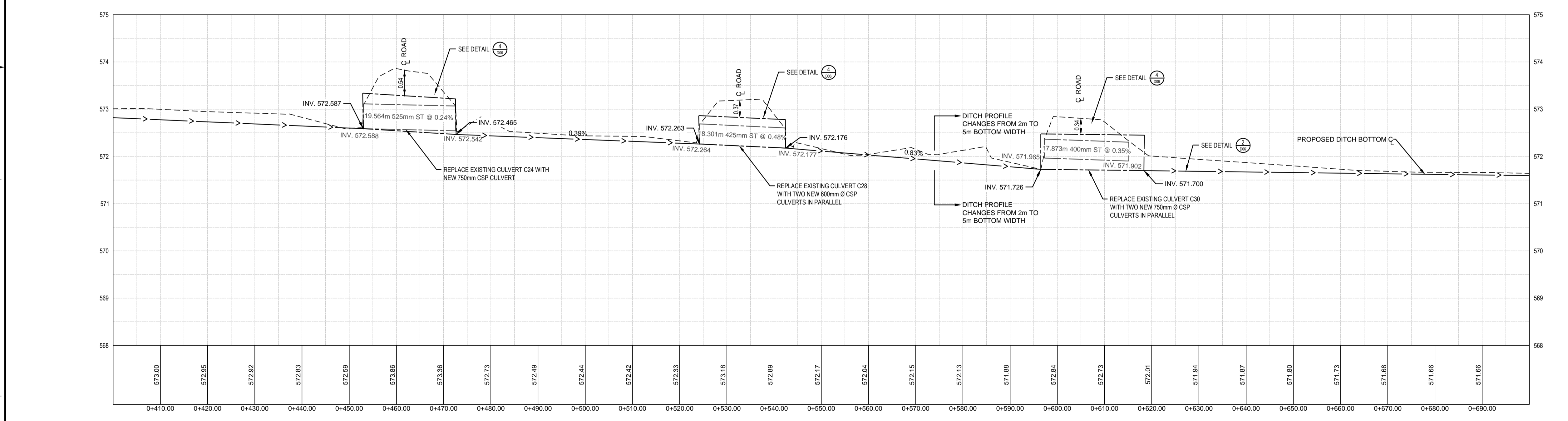
KEY PLAN:



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**PLAN VIEW**  
SCALE: 1:500

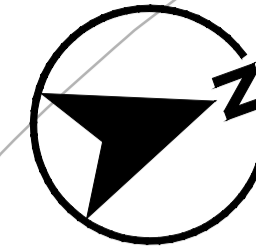


**PROFILE VIEW**  
SCALE: H=1:500 V=1:50

**LEGEND**

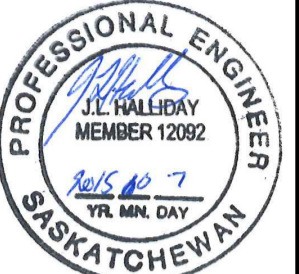
PROPERTY BOUNDARY	NEW	EXISTING	LEGEND	NEW	EXISTING
STORM SEWER CULVERT	---	---	SLOPE DIRECTION	2%	---
DITCH CENTERLINE	---	---	GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	---	---
FENCE	---	---	LIGHT POLE	---	---
BUILDING OUTLINE	---	---	NOTES		
EXISTING ASPHALT	---	---	1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.		
AREAS WITH NO EXISTING DRAINAGE	---	---	2. ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.		
UNDERGROUND POWER	P	P	3. ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.		
UNDERGROUND COMMUNICATIONS	C	C			
UNDERGROUND GAS	G	G			

ISSUED FOR - REVISION			
IS	RV	DATE	DESCRIPTION
		2015/10/07	ISSUED FOR TENDER
PROJECT NO:	14-076-02	DATE:	2014-10-16
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	J.D.F.		
DRAWN BY:	J.D.F.		
CHECKED BY:	J.L.H.		
DISCIPLINE:	<b>MUNICIPAL INFRASTRUCTURE</b>		
TITLE:	<b>DITCH PLAN AND PROFILE STA 0+400.000m TO 0+700.000m</b>		
SHEET NUMBER:	<b>D04B</b>		
SHEET #:	11	OF	17
ISSUE:	<b>ISSUED FOR TENDER</b>		RV.#
DATE:	2015/10/07		<b>0</b>



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Discipline St. Reg. No. Signature  
Civil 12092



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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ISSUED FOR - REVISION

IS	RV	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02 DATE: 2014-10-16

ORIGINAL SCALE: AS SHOWN IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.

DESIGNED BY: J.D.F.

DRAWN BY: J.D.F.

CHECKED BY: J.L.H.

DISCIPLINE: MUNICIPAL INFRASTRUCTURE

TITLE: DITCH PLAN AND PROFILE STA 0+700.000m TO 0+985.000m

SHEET NUMBER: D04C 12 OF 17

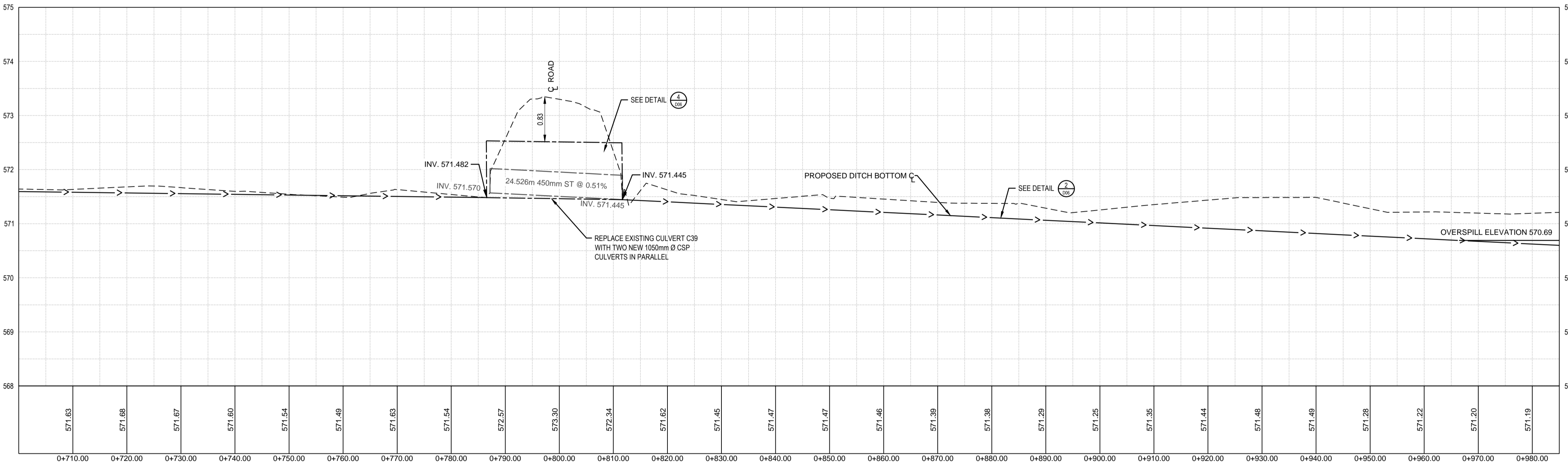
ISSUE: ISSUED FOR TENDER

DATE OF: 2015/10/07

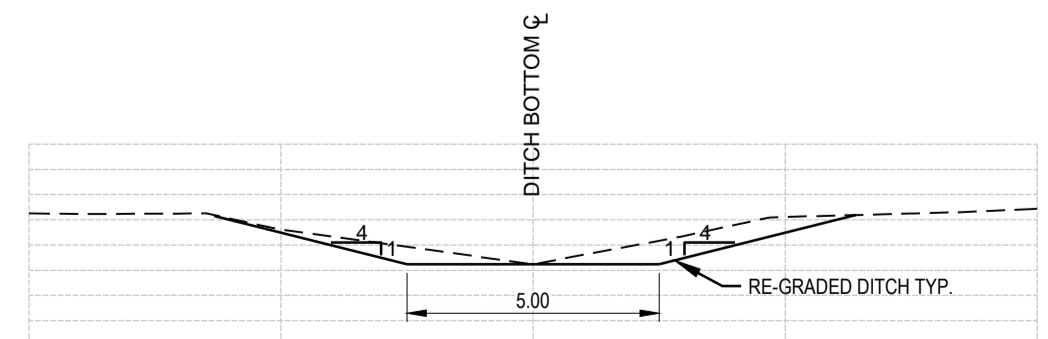
RV # 0



**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50



**SECTION**  
SCALE: 1:150

<b>LEGEND</b>	<b>NEW</b>	<b>EXISTING</b>	<b>LEGEND</b>	<b>NEW</b>	<b>EXISTING</b>
PROPERTY BOUNDARY	—	—	SLOPE DIRECTION	2%	—
STORM SEWER CULVERT	—	—	GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	571.389	571.389
DITCH CENTERLINE	—	—	LIGHT POLE	—	—
FENCE	—	—	<b>NOTES</b>		
BUILDING OUTLINE	—	—	1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.		
EXISTING ASPHALT	—	—	2. ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.		
AREAS WITH NO EXISTING DRAINAGE	—	—	3. ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.		
UNDERGROUND POWER	P	—			
UNDERGROUND COMMUNICATIONS	C	—			
UNDERGROUND GAS	G	—			

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Association of Professional Engineers & Geoscientists of Saskatchewan  
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WSP Canada Inc.  
Number Code: 12092  
Permission to Consult held by:  
Discipline: Civil St. Reg. No. 12092 Signature: [Signature]

**PROFESSIONAL ENGINEER**  
J.L. HALLIDAY  
MEMBER 12092  
YR. ANN. DATE: [Date]  
SASKATCHEWAN

CLIENT:  
**GOVERNMENT OF CANADA**

CLIENT REF. #:  
PROJECT:  
**SITE DRAINAGE UPGRADES**



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IS	RV	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02	DATE: 2014-10-16
ORIGINAL SCALE: AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: J.D.F.	
DRAWN BY: J.D.F.	
CHECKED BY: J.L.H.	

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

TITLE:  
**DITCH PLAN AND PROFILE  
STA 0+985.000m TO 1+300.000m**

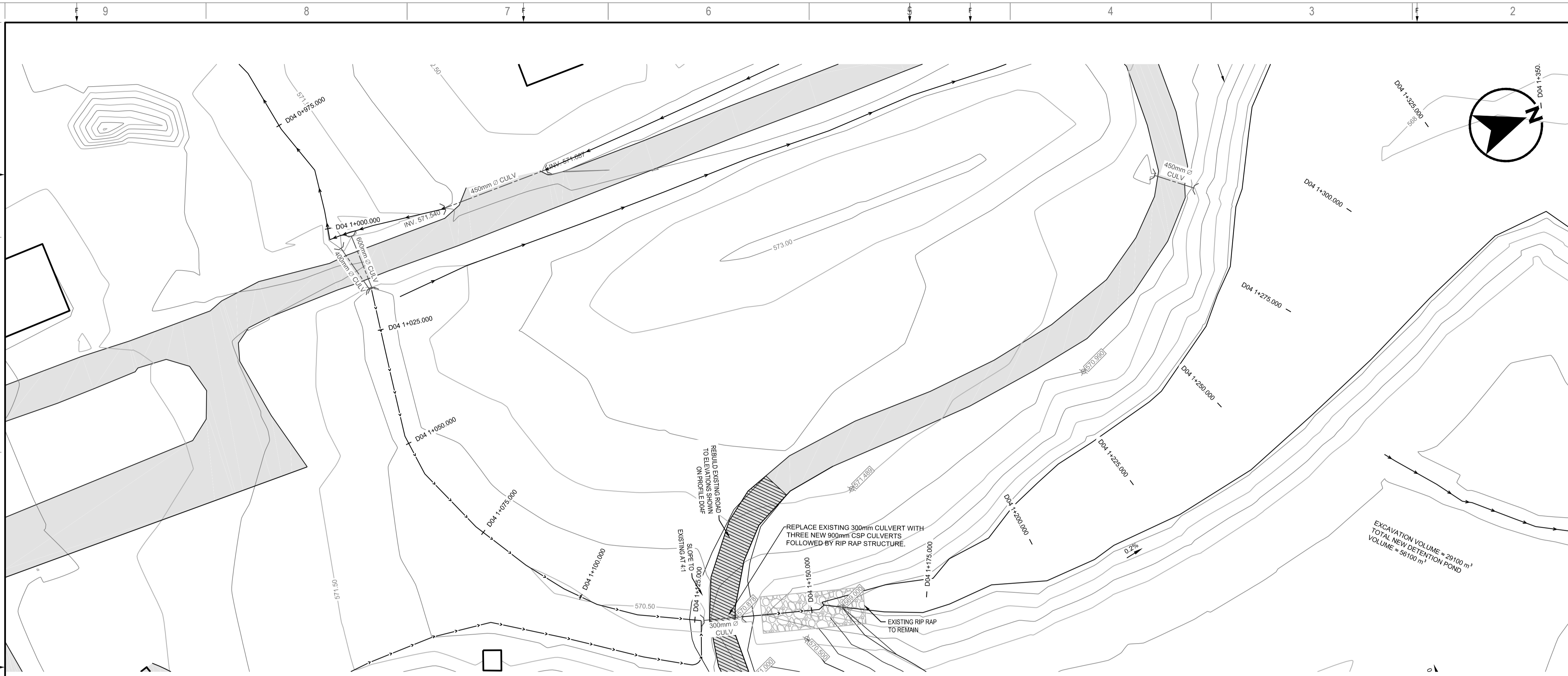
SHEET NUMBER:  
**D04D**

SHEET # **13** OF **17**

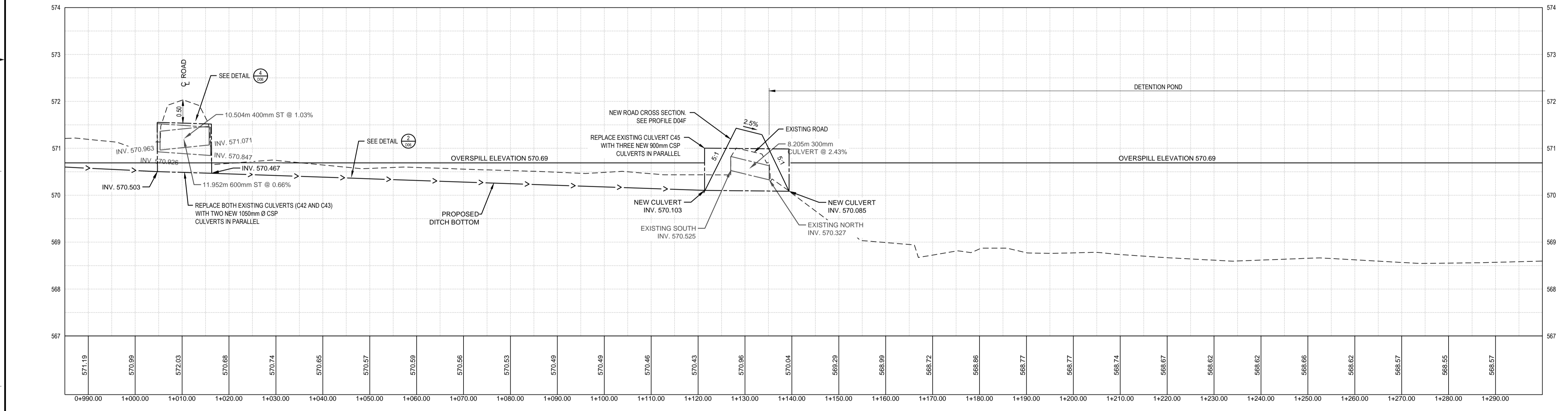
ISSUE:  
**ISSUED FOR TENDER**

DATE OF: **2015/10/07**

RV # **0**



**PLAN VIEW**  
SCALE: 1:500



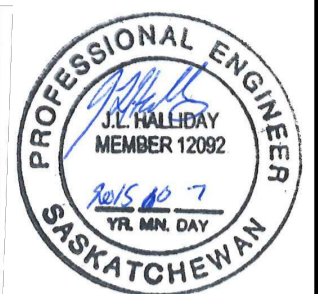
**PROFILE VIEW**  
SCALE: H=1:500 V=1:50

**LEGEND**

PROPERTY BOUNDARY	NEW	EXISTING	LEGEND	NEW	EXISTING
STORM SEWER CULVERT	---	---	SLOPE DIRECTION	2%	2%
DITCH CENTERLINE	---	---	GROUND OR ASPHALT ELEVATION	571.989	573.989
FENCE	---	---	UNLESS SPECIFIED OTHERWISE		
BUILDING OUTLINE	---	---	LIGHT POLE		
EXISTING ASPHALT	---	---	NOTES		
AREAS WITH NO EXISTING DRAINAGE	---	---	1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.		
UNDERGROUND POWER	P	P	2. ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.		
UNDERGROUND COMMUNICATIONS	C	C	3. ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.		
UNDERGROUND GAS	G	G			

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Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
WSP Canada Inc.  
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Permission to Consult held by:  
Discipline St. Reg. No. Signature



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



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ISSUED FOR - REVISION:

IS	RV	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO:	DATE:
14-076-02	2014-10-16
ORIGINAL SCALE:	
AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY:	J.D.F.
DRAWN BY:	J.D.F.
CHECKED BY:	J.L.H.

DISCIPLINE: **MUNICIPAL INFRASTRUCTURE**

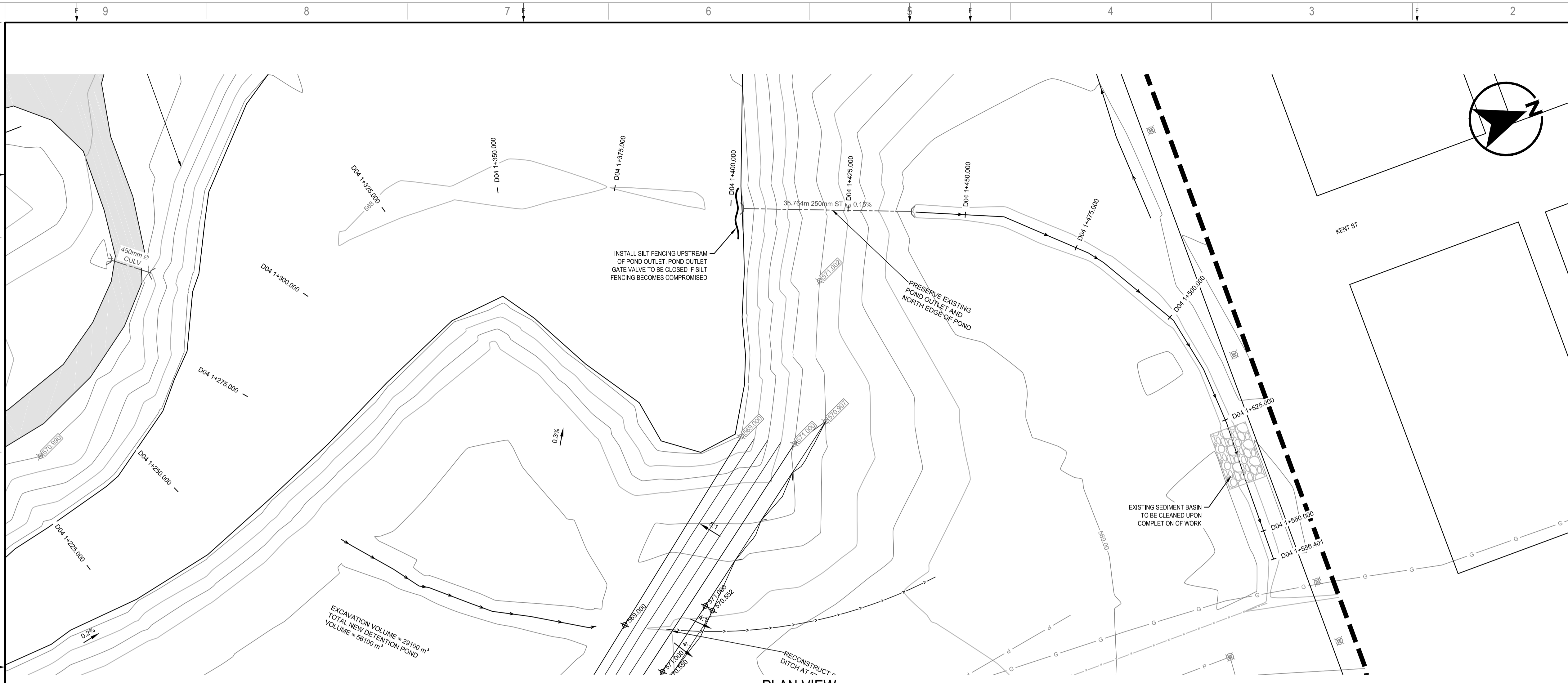
TITLE:

**DITCH PLAN AND PROFILE  
STA 1+300.000m TO 1+556.401m**

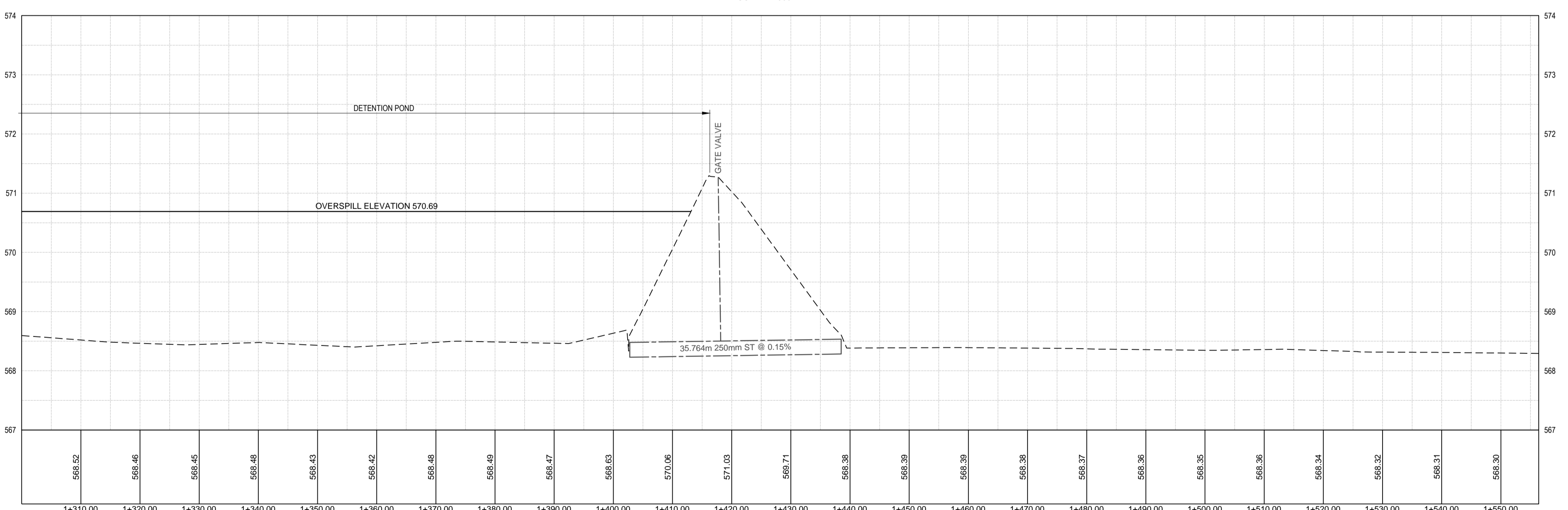
SHEET NUMBER:  
**D04E**

ISSUE:  
**ISSUED FOR TENDER**

DATE OF: 2015/10/07



**PLAN VIEW**  
SCALE: 1:500



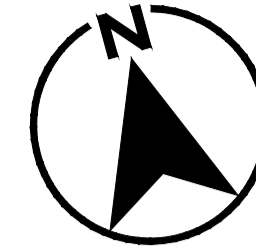
**PROFILE VIEW**  
SCALE: H=1:500 V=1:50

- LEGEND**
- PROPERTY BOUNDARY
  - STORM SEWER CULVERT
  - DITCH CENTERLINE
  - FENCE
  - BUILDING OUTLINE
  - EXISTING ASPHALT
  - AREAS WITH NO EXISTING DRAINAGE
  - UNDERGROUND POWER
  - UNDERGROUND COMMUNICATIONS
  - UNDERGROUND GAS

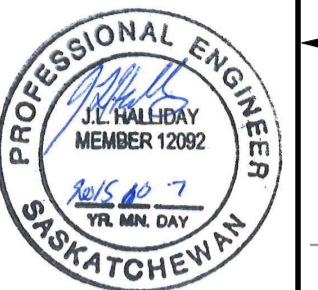
- NEW**
- 2% slope
  - 577.989
  - 573.989
- EXISTING**
- 573.989

- LEGEND**
- SLOPE DIRECTION
  - GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE
  - LIGHT POLE

- NOTES**
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
  - ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.
  - ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.



SEAL:



CLIENT:

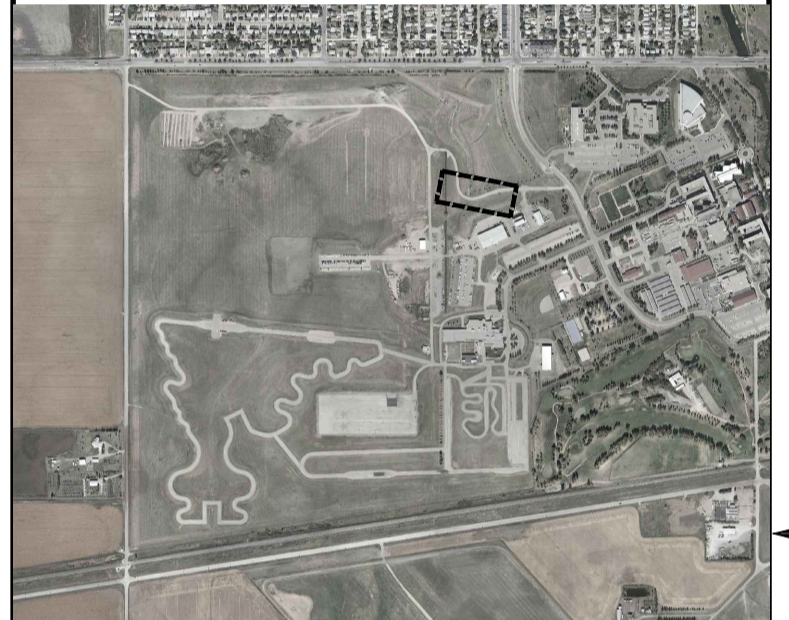
**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:



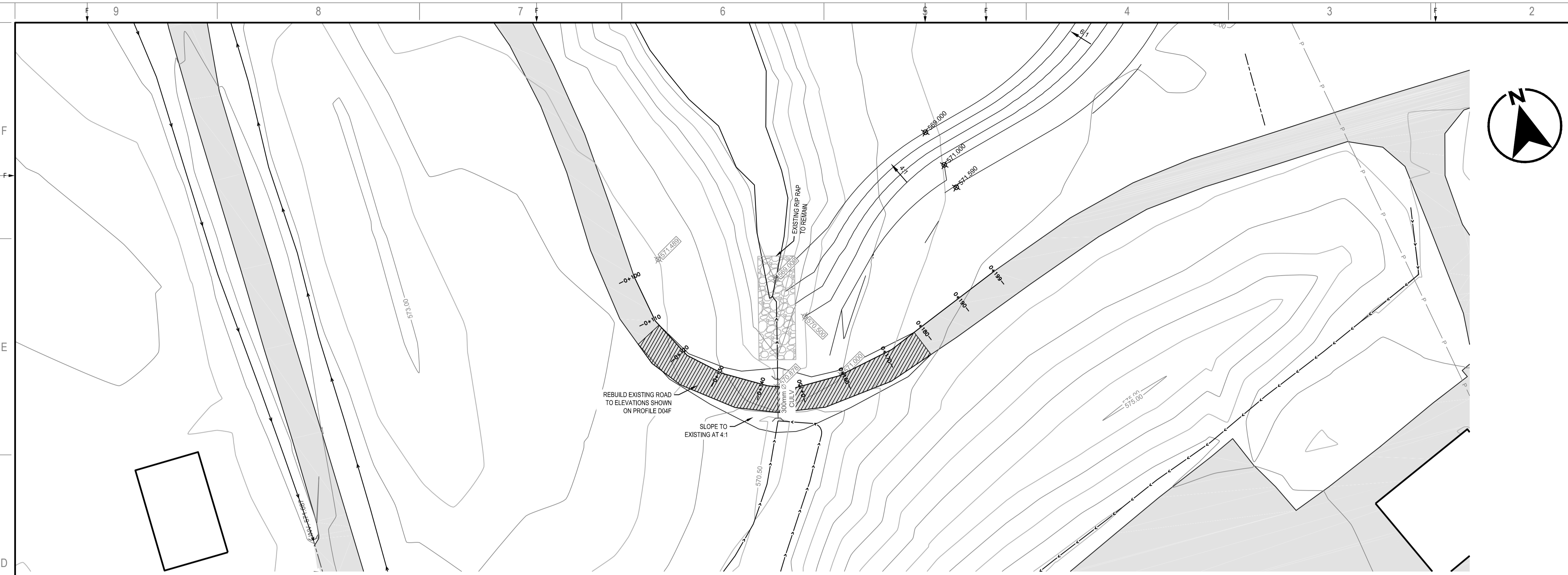
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ISSUED FOR - REVISION

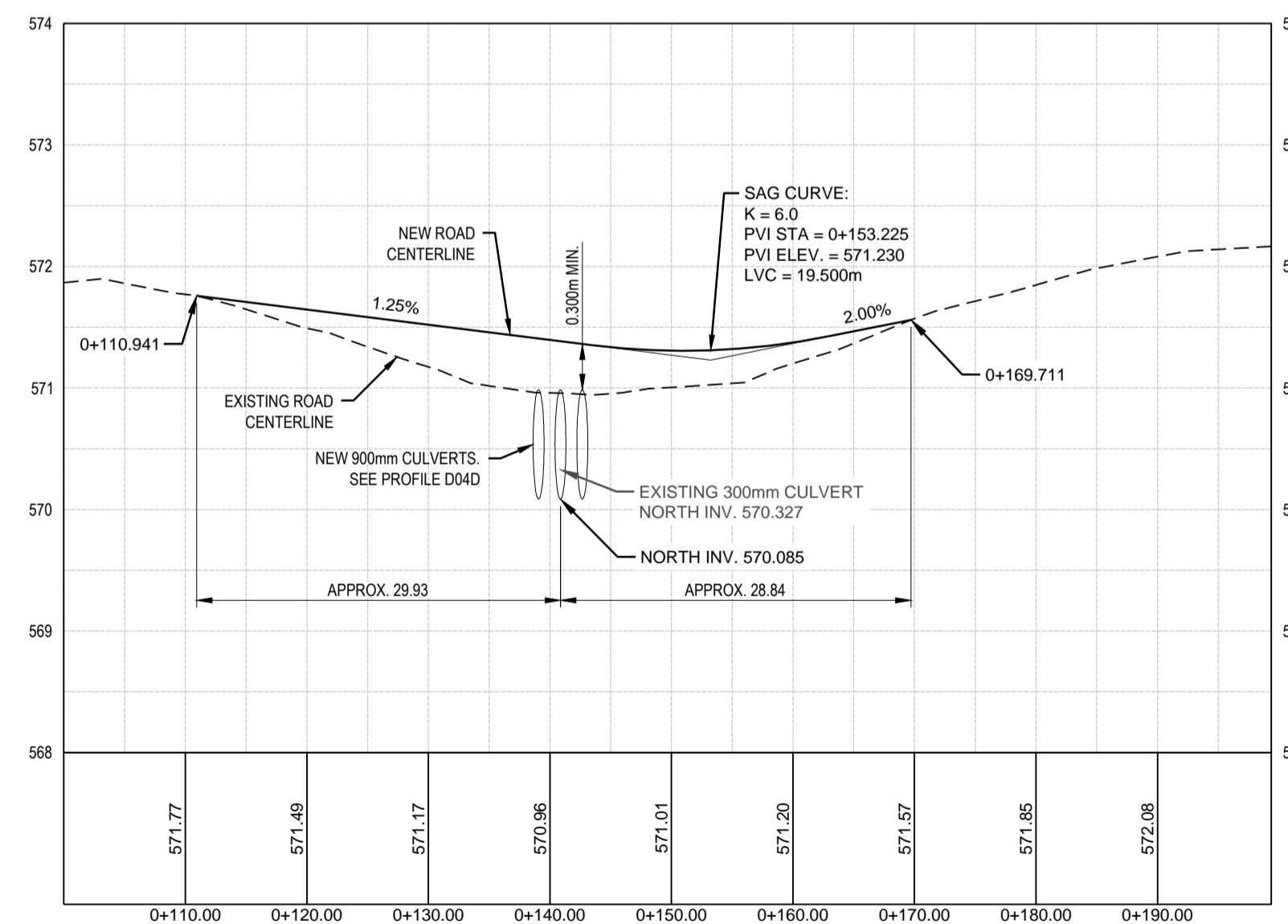
IS.	RV.	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02	DATE: 2014-10-16
ORIGINAL SCALE: AS SHOWN	IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: J.D.F.	
DRAWN BY: J.D.F. / D.R.K.	
CHECKED BY: J.L.H.	

DISCIPLINE: <b>MUNICIPAL INFRASTRUCTURE</b>	
TITLE: <b>ROAD RE-GRADING PROFILE ABOVE NEW 900mm CULVERTS</b>	
SHEET NUMBER: <b>D04F</b>	
SHEET #: 15	OF 17
ISSUE: <b>ISSUED FOR TENDER</b>	RV.#: <b>0</b>
DATE OF: 2015/10/07	



**PLAN VIEW**  
SCALE: 1:500



**PROFILE VIEW**  
SCALE: H=1:500 V=1:50

**LEGEND**

PROPERTY BOUNDARY	---
STORM SEWER CULVERT	---(---)
DITCH CENTERLINE	---
FENCE	---
BUILDING OUTLINE	---
EXISTING ASPHALT	---
AREAS WITH NO EXISTING DRAINAGE	---
UNDERGROUND POWER	P
UNDERGROUND COMMUNICATIONS	C
UNDERGROUND GAS	G

**LEGEND**

<b>NEW</b>	<b>EXISTING</b>
SLOPE DIRECTION	---
GROUND OR ASPHALT ELEVATION UNLESS SPECIFIED OTHERWISE	---
LIGHT POLE	---

**NOTES**

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL MATERIALS AND CONSTRUCTION SHALL MEET CITY OF REGINA SPECIFICATIONS.
- ALL ELEVATIONS REFERENCED TO CITY OF REGINA BM # 621 - TOP OF BRASS CAP AT THE CORNER OF COURTNEY STREET AND DEWDNEY AVENUE, 20cm BELOW GROUND LEVEL. ELEVATION 573.488m.





SEAL:



CLIENT:

**GOVERNMENT OF CANADA**

CLIENT REF. #

PROJECT:

**SITE DRAINAGE UPGRADES**

KEY PLAN:

DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION:

IS.	RV.	DATE	DESCRIPTION
0		2015/10/07	ISSUED FOR TENDER

PROJECT NO: 14-076-02 DATE: 2014-10-16

ORIGINAL SCALE: 1:500

DESIGNED BY: J.D.F.

DRAWN BY: J.D.F.

CHECKED BY: J.L.H.

DISCIPLINE: MUNICIPAL INFRASTRUCTURE

TITLE: DETAILS

SHEET NUMBER: D06

ISSUE: ISSUED FOR TENDER

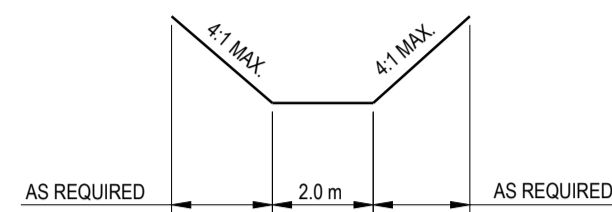
DATE OF: 2015/10/07

SHEET # 17 OF 17

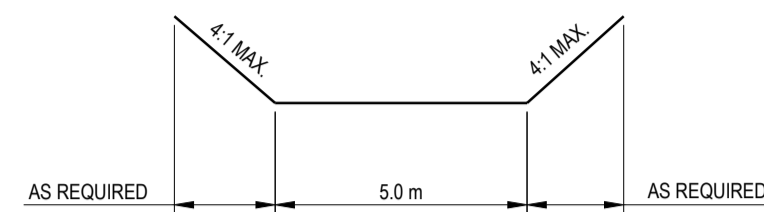
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DATE OF: 2015/10/07

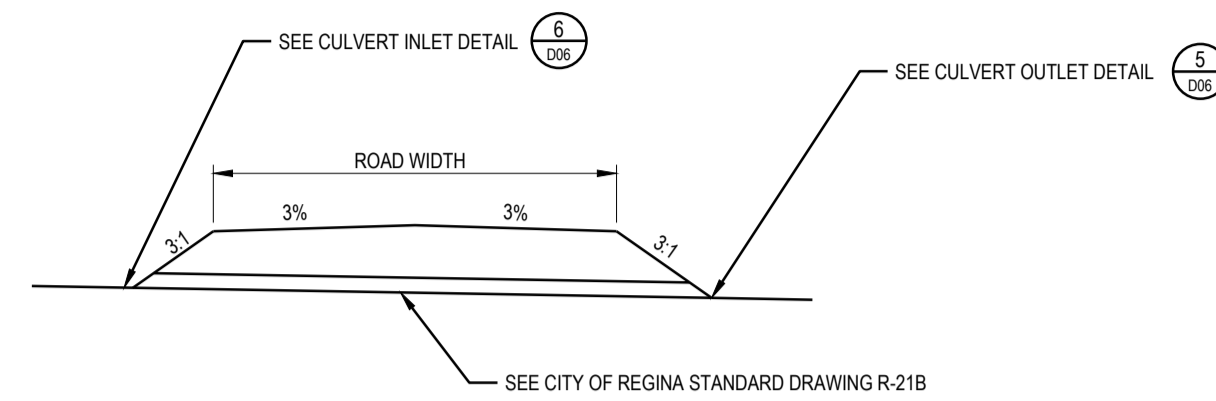
RV. # 0



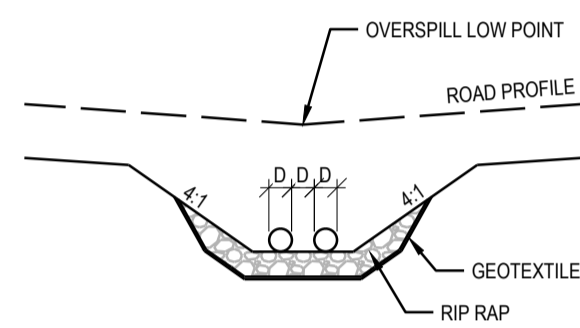
**1**  
D06  
**TYPICAL DITCH DETAIL CROSS SECTION  
UPSTREAM OF CULVERT 30**  
SCALE: N.T.S.



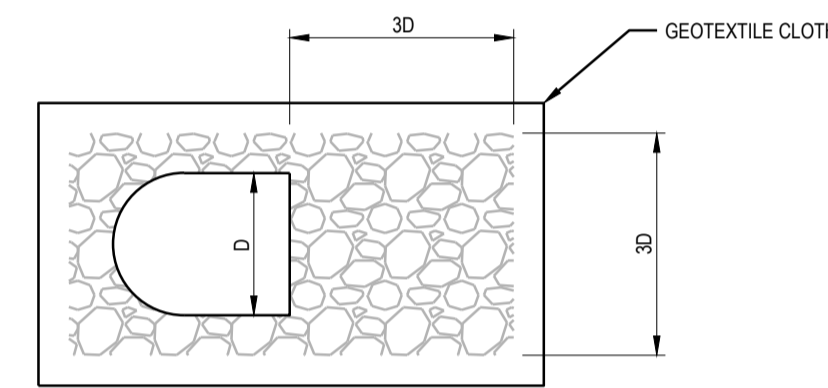
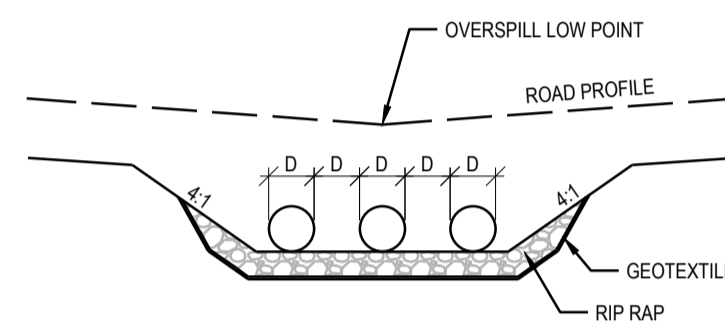
**2**  
D06  
**TYPICAL DITCH DETAIL CROSS SECTION  
DOWNSTREAM OF CULVERT C30**  
SCALE: N.T.S.



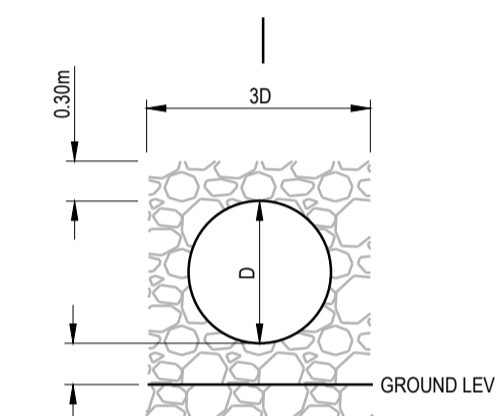
**4**  
D06  
**TYPICAL APPROACH AND APPROACH CULVERT DETAIL**  
SCALE: N.T.S.



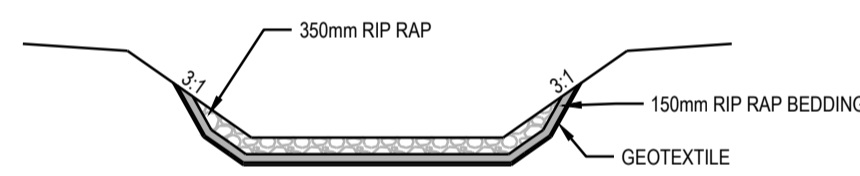
**3**  
D06  
**TYPICAL CULVERTS IN PARALLEL**  
SCALE: N.T.S.



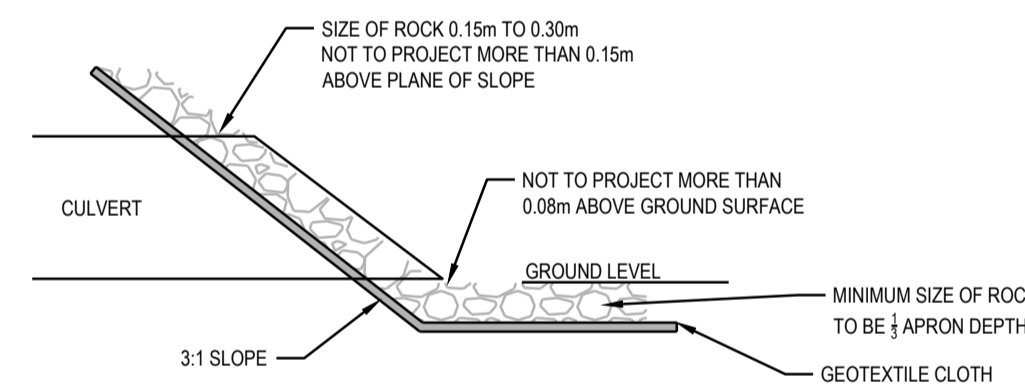
TOP VIEW



FRONT VIEW



**7**  
D06  
**GRADE CHANGE RIP RAP**  
SCALE: N.T.S.

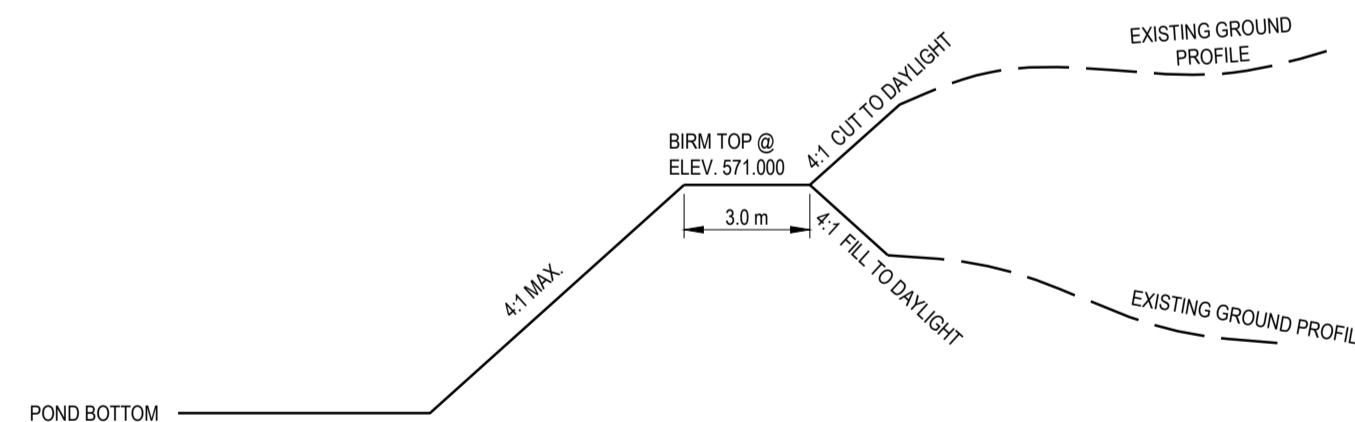


SECTION A-A

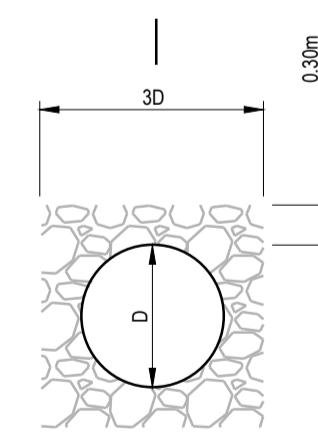
NOTE:

- RIP RAP TO BE UNDERLAIN BY MEDIUM THICKNESS GEOTEXTILE FILTER CLOTH THAT IS KEYS INTO NATIVE MATERIAL AT ALL EDGES OF CLOTH APRON DEPTH OF 0.45m
- 

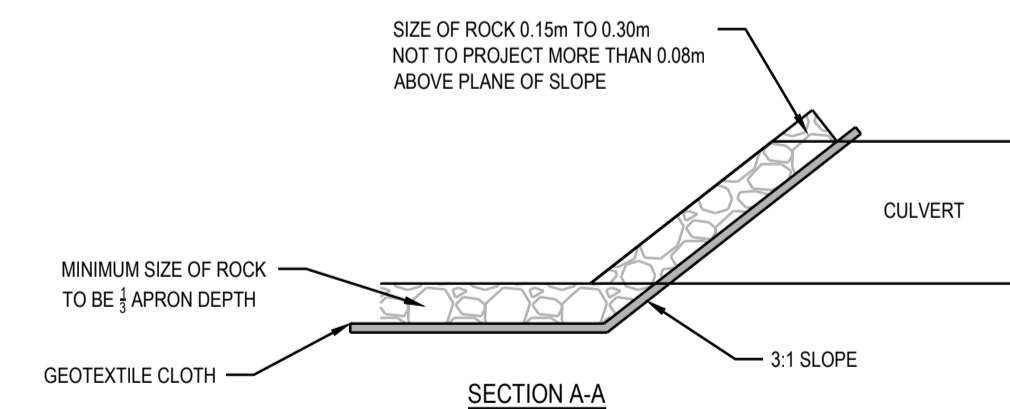
**5**  
D06  
**CULVERT OUTLET DETAIL**  
SCALE: N.T.S.



**8**  
D06  
**TYPICAL DETENTION POND EAST BIRM**  
SCALE: N.T.S.



FRONT VIEW



SECTION A-A

**6**  
D06  
**CULVERT INLET DETAIL**  
SCALE: N.T.S.