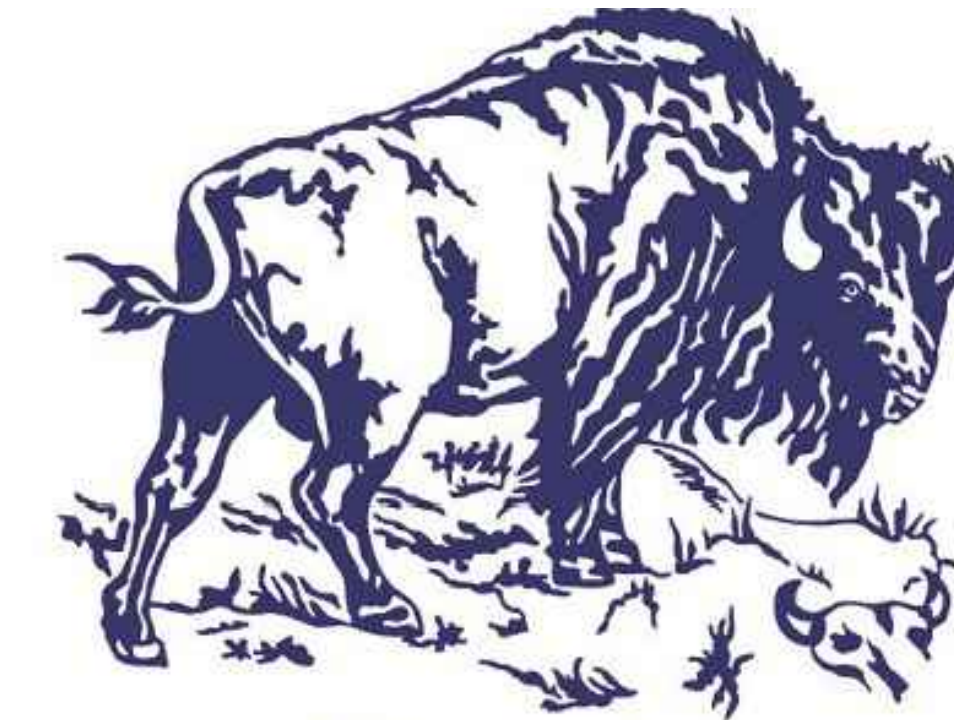
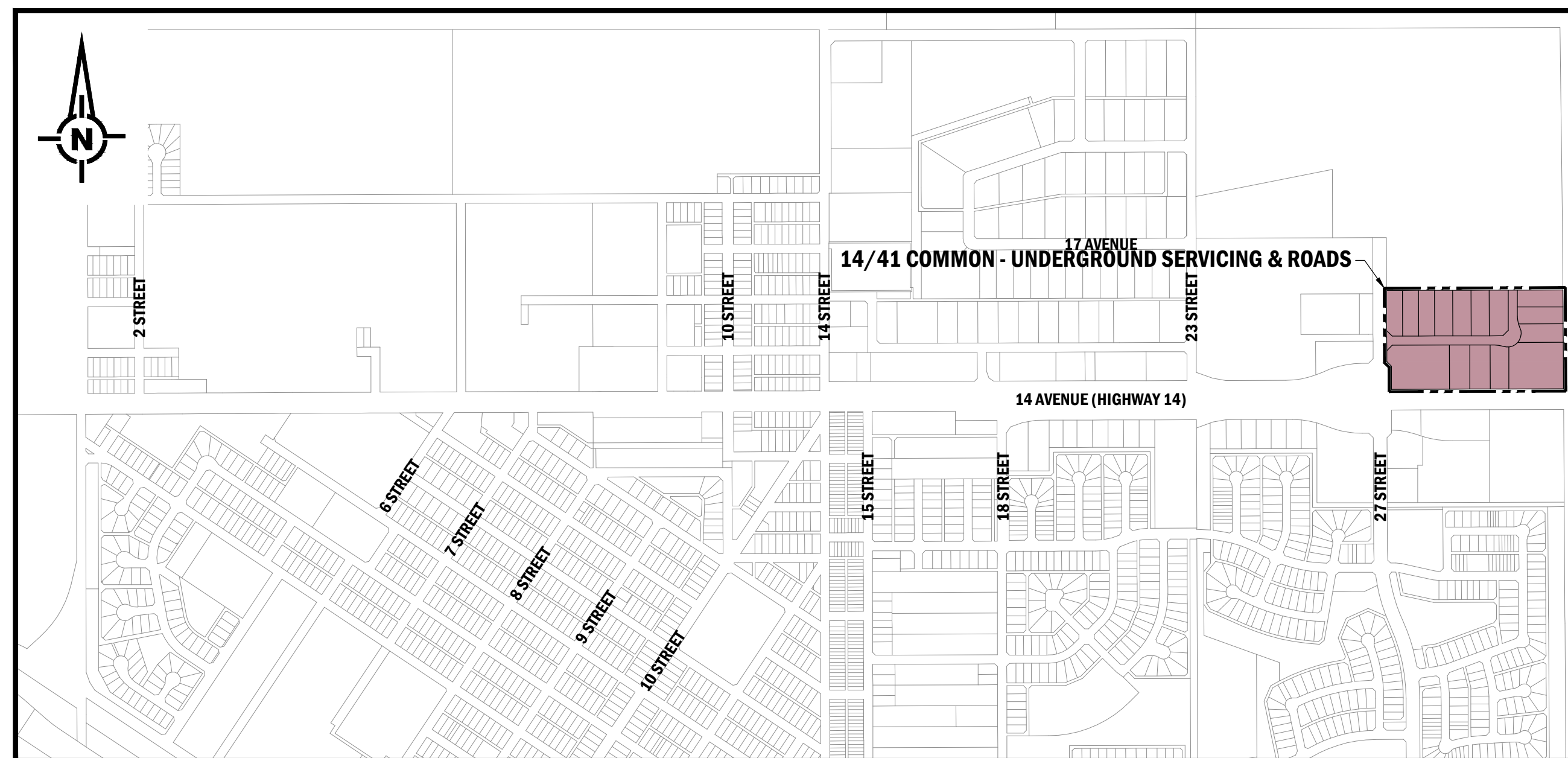
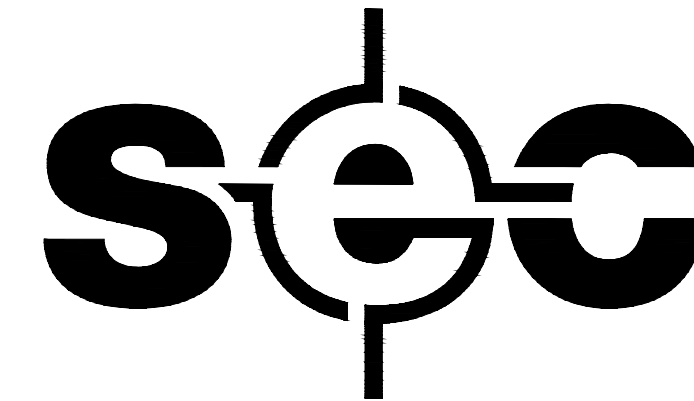


TOWN OF WAINWRIGHT

14/41 COMMON UNDERGROUND SERVICING & ROADS



Town of Wainwright
"The Buffalo Capital of Canada!"



LOCATION PLAN
SCALE 1:10000
0 100 200 300 m

LIST OF DRAWINGS

- 121-13006-2-M000 COVER SHEET AND LOCATION PLAN
- OVERALL PLANS**
 - 121-13006-2-M100 ORIGINAL TOPOGRAPHY & INDEX PLAN
 - 121-13006-2-M101 UNDERGROUND UTILITIES
 - 121-13006-2-M102 LOT GRADING
- PLAN / PROFILES**
 - 121-13006-2-M200 15 AVENUE - STA 0+000 TO 0+325
 - 121-13006-2-M201 30 STREET - STA 0+000 TO 0+200
 - 121-13006-2-M202 UTILITY EASEMENT - STA 0+000 TO 0+175
 - 121-13006-2-M203 27 STREET - STA 0+000 TO 0+250
- SECTIONS AND DETAIL PLANS**
 - 121-13006-2-M300 1 PUL SWMF SECTIONS
 - 121-13006-2-M400 DETAILS

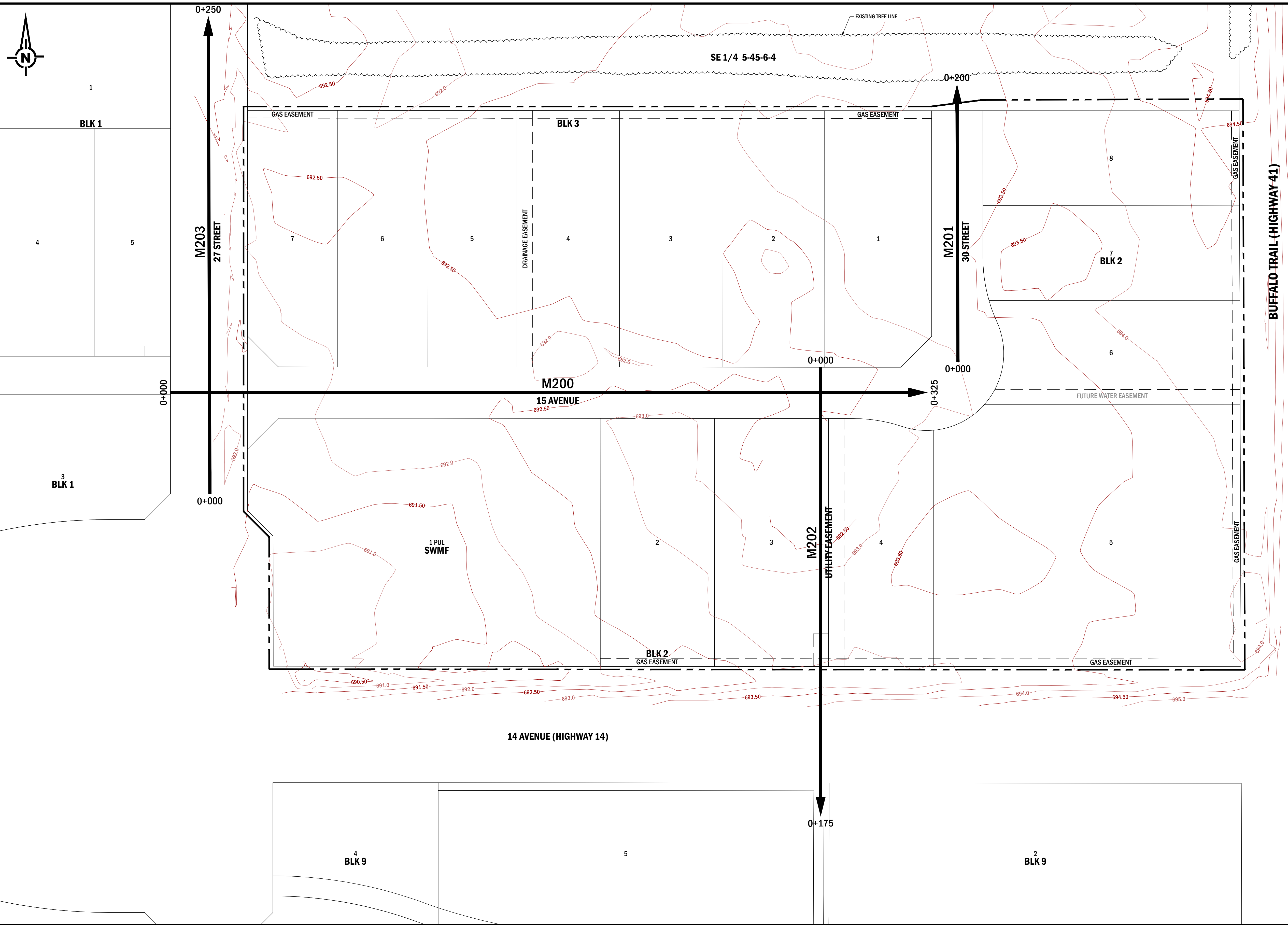
RECORD DRAWINGS

SURFACE CONTRACTOR:	BORDER PAVING LTD.
GENERAL CONTRACTOR:	BEL CONTRACTING LTD.
START DATE:	AUGUST 2014
COMPLETION DATE:	NOVEMBER 2014
<small>THIS DRAWING HAS BEEN REPLOTTED FOR RECORD DRAWING PURPOSES. FOR ACTUAL CONSTRUCTION ISSUE SEE PREVIOUS REVISION.</small>	

NOTICE:
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DECEMBER 12, 2014
ISSUE FOR RECORD
121-13006-2

FILENAME: 121-13006-2-M100.DWG SOURCE: W:\0121-TOWN OF WAINWRIGHT\121-13006-2-M100\3.3 WORKING DRAWINGS\STAGE 2 - UNDERGROUND PLOT DATE: December 15, 2014 SAVED BY: WERNERSBERG



GENERAL NOTES

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LEGEND

PROFILE SHEET START STATION: 0+200
 PLAN / PROFILE DRAWING No.: M 200
 PROFILE BASELINE: 37 AVENUE (SHEET 1 OF 2)
 PROFILE SHEET END STATION: 0+500
 PROFILE NAME / SHEET No.:

SITE FEATURES

EXISTING
 MAJOR CONTOUR (1m INTERVAL): 698
 MINOR CONTOUR (0.5m INTERVAL): 697.5
 *CONTOURS FROM SURVEYS TAKEN IN THE SUMMER OF 2012

STAGING BOUNDARY

STAGE AREA BOUNDARY: - - - - -

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RECORD DRAWING
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SCALE 1:750

0 7.5 15 22.5 m

PERMIT

SELECT ENGINEERING CONSULTANTS LTD.
 ALBERTA PERMIT No. P10261
 WAS AFFIXED TO REV. 0
 AND SIGNED BY
 KEN SADOWNYK, P.ENG.
 ON 14-03-05

REV. 0
 WAS STAMPED
 AND SIGNED BY
 JARRAD ELLIOTT
 P.ENG AB
 ON 14-03-05

ENGINEER

REV	Y	M	D	REVISION DESCRIPTION	DRN	SUPV	DES	CHK	ENG	APP
1	14	12	12	ISSUE FOR RECORD						
0	14	03	05	ISSUE FOR CONSTRUCTION						

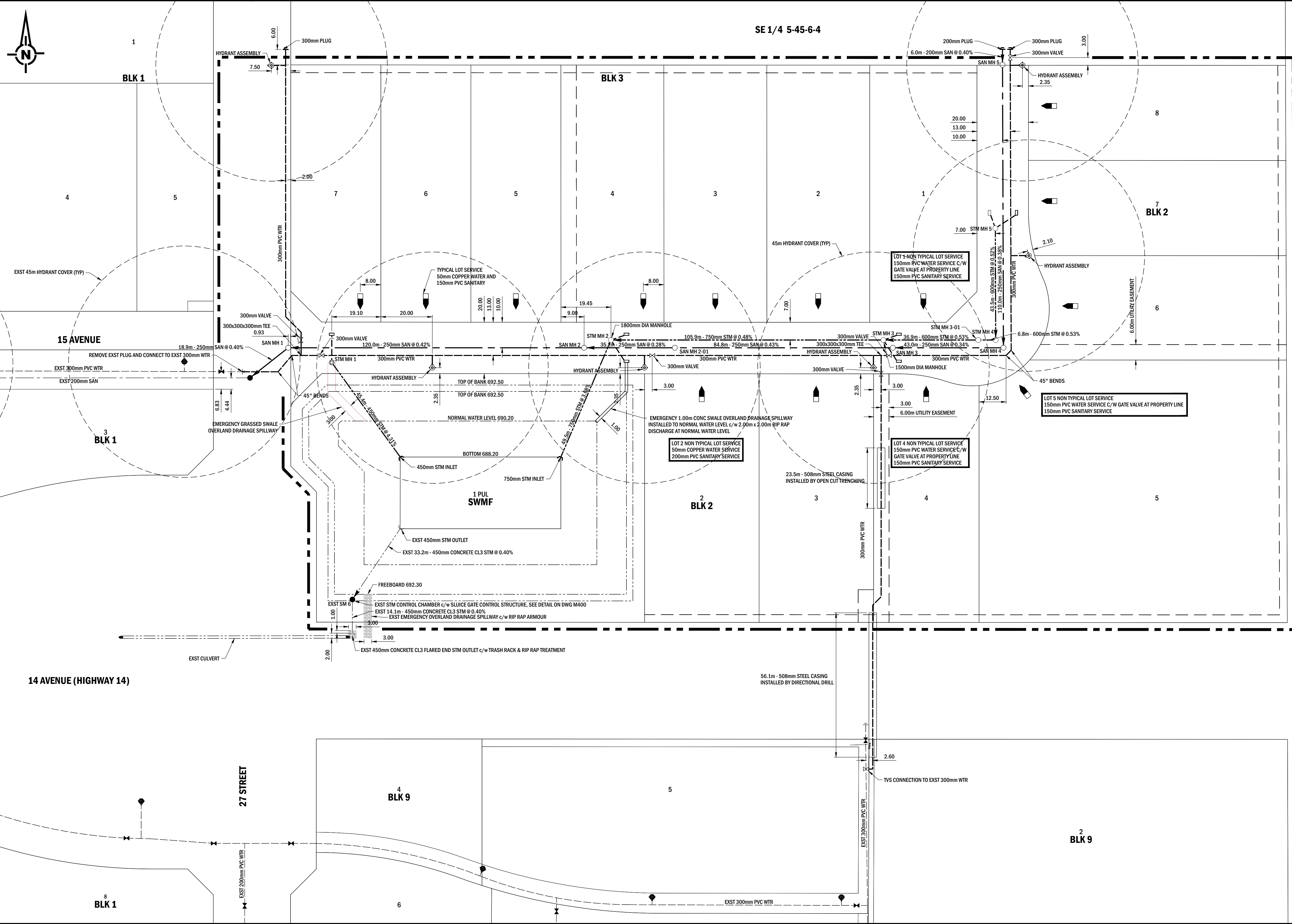
sec

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 100, 17413 -107 AVENUE
 EDMONTON AB T5S 1E5 CANADA
 TEL 780 651 5777 FAX 780 651 5757
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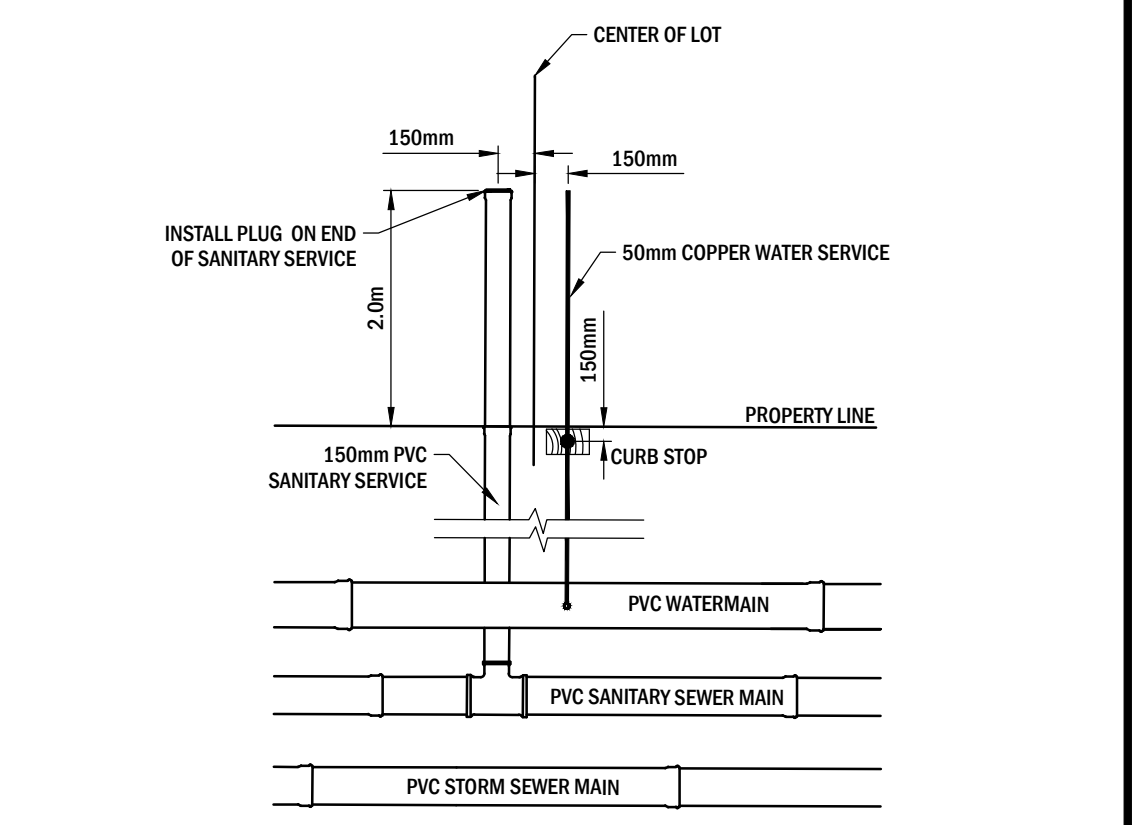
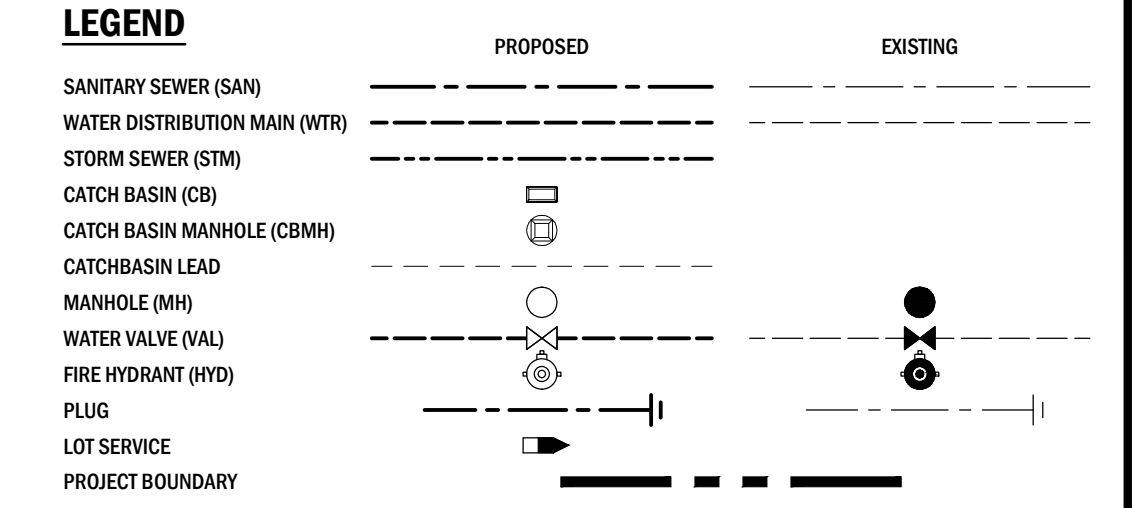
TOWN OF WAINWRIGHT
14/41 COMMON
 UNDERGROUND SERVICING & ROADS
 OVERALL PLAN
 ORIGINAL TOPOGRAPHY & INDEX PLAN

DRAWING
121-13006-2-M100

FILENAME: 121-13006-2-M101.DWG SOURCE: W:\0121-TOWN OF WAINWRIGHT\121-13006-2-M101\01.DWG DESIGN PROCESS: 3.3 ACAD, 3.3.3 WORKING DRAWINGS STAGE 2 - UNDERGROUND
 SAVED BY: WAINWRIGHT DATE: December 15, 2014



- #### GENERAL NOTES
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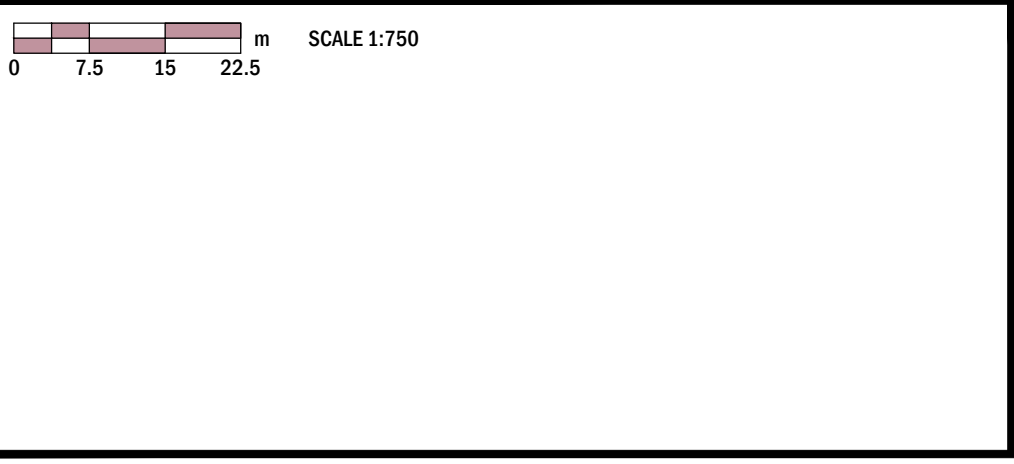
- #### NOTES
- THE TOWN ACCEPTS NO RESPONSIBILITY FOR THE CONSTRUCTION OR MAINTENANCE OF THE SERVICES BEYOND PROPERTY LINE.
 - THE END OF THE COPPER WATER SERVICE SHOULD NOT BE CRIMPED CLOSED, PERMEABLE FILTER CLOTH WILL BE USED TO PREVENT INTRUSION OF DEBRIS AND TO ALLOW TESTING FLOW OF CURB STOP.
 - MARK CURB STOP WITH A 50x100x750mm STAKE PAINTED RED.



EXST 600mm CULVERT

RECORD DRAWING
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ALBERTA PERMIT NO. P10261
WAS AFFIXED TO REV. 0
AND SIGNED BY
KEN SADOWSKY, P. ENG.
ON 14-03-05

REV. 0
WAS STAMPED
AND SIGNED BY
JARRAD ELLIOTT
P. ENG AB
ON 14-03-05

PERMIT ENGINEER

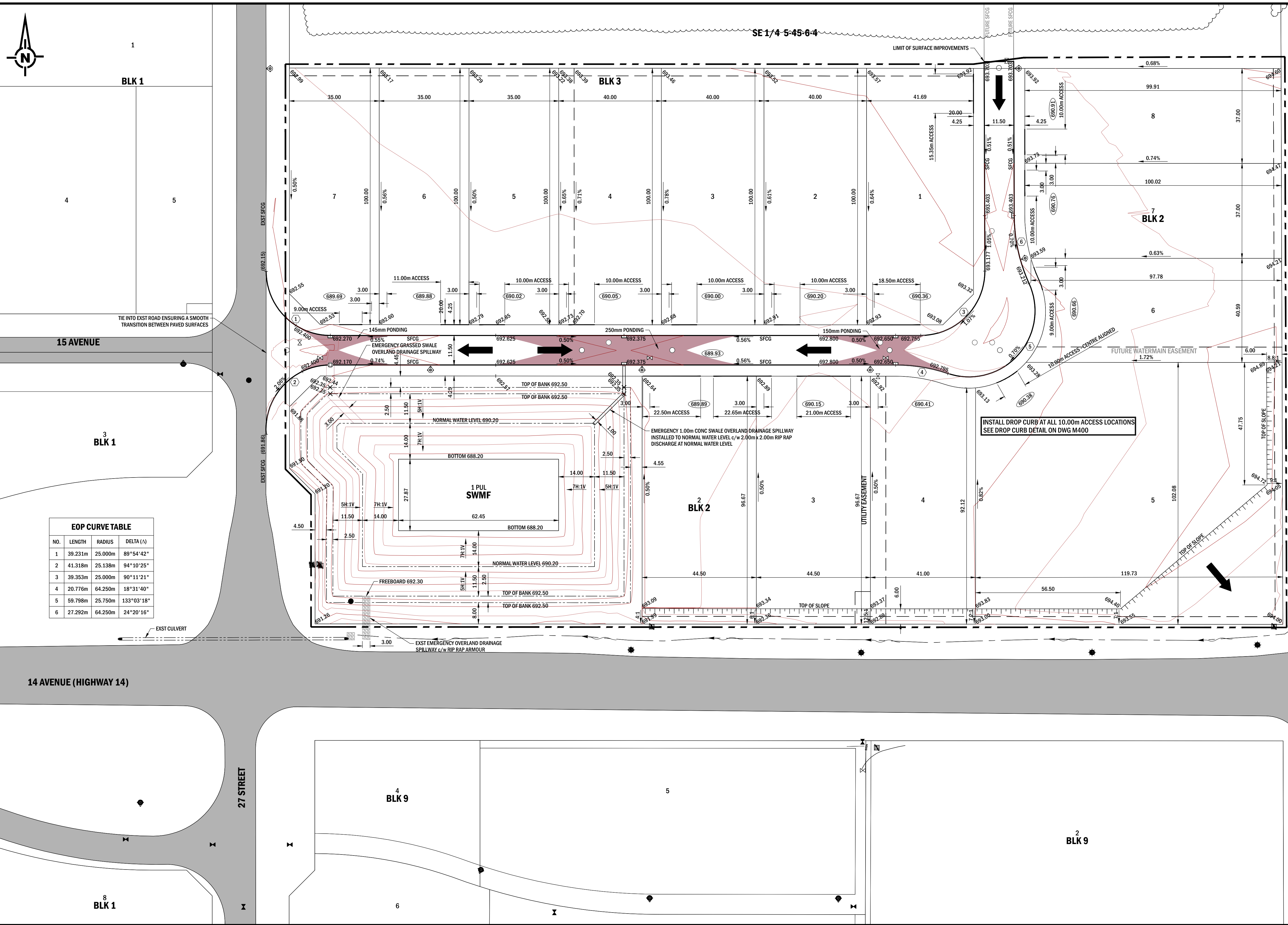
REV	Y	M	D	REVISION DESCRIPTION	DRN	SUPV	DES	CHK	ENG	APP
1	14	12	12	ISSUE FOR RECORD						
0	14	03	05	ISSUE FOR CONSTRUCTION						

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TOWN OF WAINWRIGHT
14/41 COMMON
UNDERGROUND SERVICING & ROADS
OVERALL PLAN
UNDERGROUND UTILITIES

DRAWING
121-13006-2-M101

FILENAME: 121-13006-2-M102.DWG SOURCE: W:\012-TOWN OF WAINWRIGHT\121-13006-2-M102.DWG SOURCE: W:\012-TOWN OF WAINWRIGHT\121-13006-2-M102.DWG SOURCE: W:\012-TOWN OF WAINWRIGHT\121-13006-2-M102.DWG SOURCE: W:\012-TOWN OF WAINWRIGHT\121-13006-2-M102.DWG SOURCE: W:\012-TOWN OF WAINWRIGHT\121-13006-2-M102.DWG
 SAVED BY: WREINBERG PLOT DATE: December 15, 2014



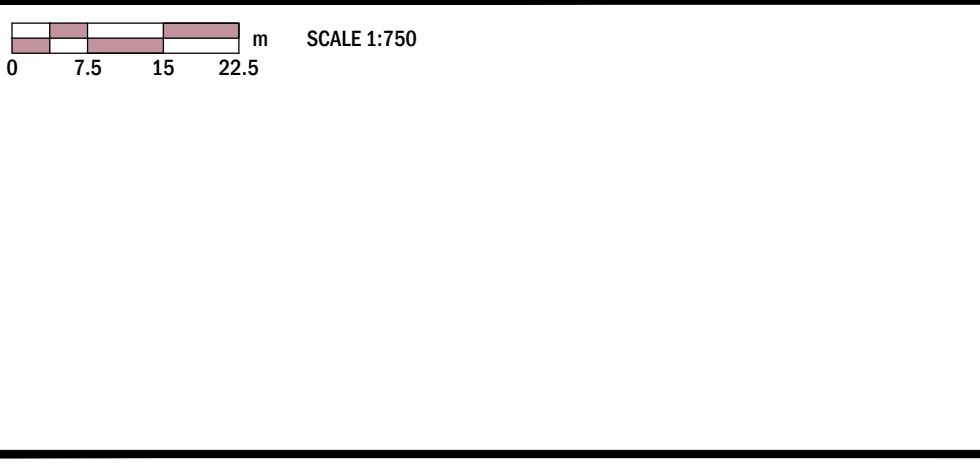
EOP CURVE TABLE

NO.	LENGTH	RADIUS	DELTA (A)
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2	41.318m	25.138m	94°10'25"
3	39.353m	25.000m	90°11'21"
4	20.776m	64.250m	18°31'40"
5	59.798m	25.750m	133°03'18"
6	27.292m	64.250m	24°20'16"

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- LEGEND**
- SITE GRADING**
- | | | | |
|----------------------------------|-------------------|-------------------|-----------------|
| LOT CORNER GRADE | PROPOSED 689.25 | EXISTING (689.25) | FUTURE (689.25) |
| LOT SERVICE SANITARY PIPE INVERT | PROPOSED (689.25) | EXISTING (689.25) | FUTURE (689.25) |
| PONDING AREA | PROPOSED | EXISTING | FUTURE |
| SWALE DRAINAGE ROUTE | PROPOSED | EXISTING | FUTURE |
| MAJOR DRAINAGE ROUTE | PROPOSED | EXISTING | FUTURE |
| FACE OF CURB (SFCG; RFCG) | PROPOSED | EXISTING | FUTURE |
- STAGING BOUNDARY**
- STAGE 1 BOUNDARY
- UNDERGROUND FEATURES**
- | | | | |
|--------------------------|----------|----------|--------|
| MANHOLE (MH) | PROPOSED | EXISTING | FUTURE |
| CATCHBASIN AND LEAD (CB) | PROPOSED | EXISTING | FUTURE |
| WATER VALVE (VAL) | PROPOSED | EXISTING | FUTURE |
| FIRE HYDRANT (HYD) | PROPOSED | EXISTING | FUTURE |

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 WAS AFFIXED TO REV. 0
 AND SIGNED BY
 KEN SADOWSKY, P.ENG.
 ON 14-03-05

REV. 0
 WAS STAMPED
 AND SIGNED BY
 JARRAD ELLIOTT
 P.ENG AB
 ON 14-03-05

PERMIT ENGINEER

REV	Y	M	D	REVISION DESCRIPTION	DRN	SUPV	DES	CHK	ENG	APP
B	14	12	12	SHOWING LOT DIMENSIONS						
0	14	03	05	ISSUE FOR CONSTRUCTION						

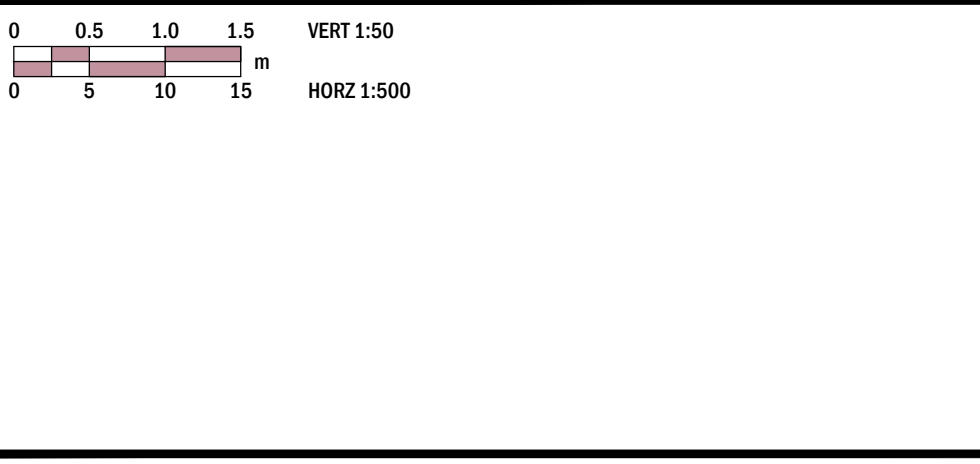
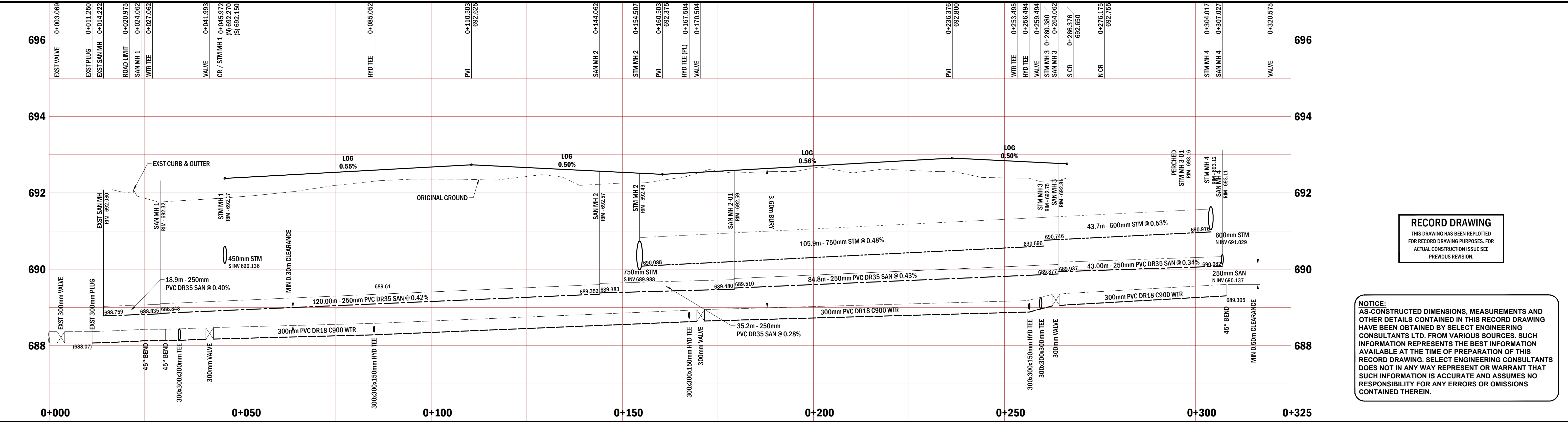
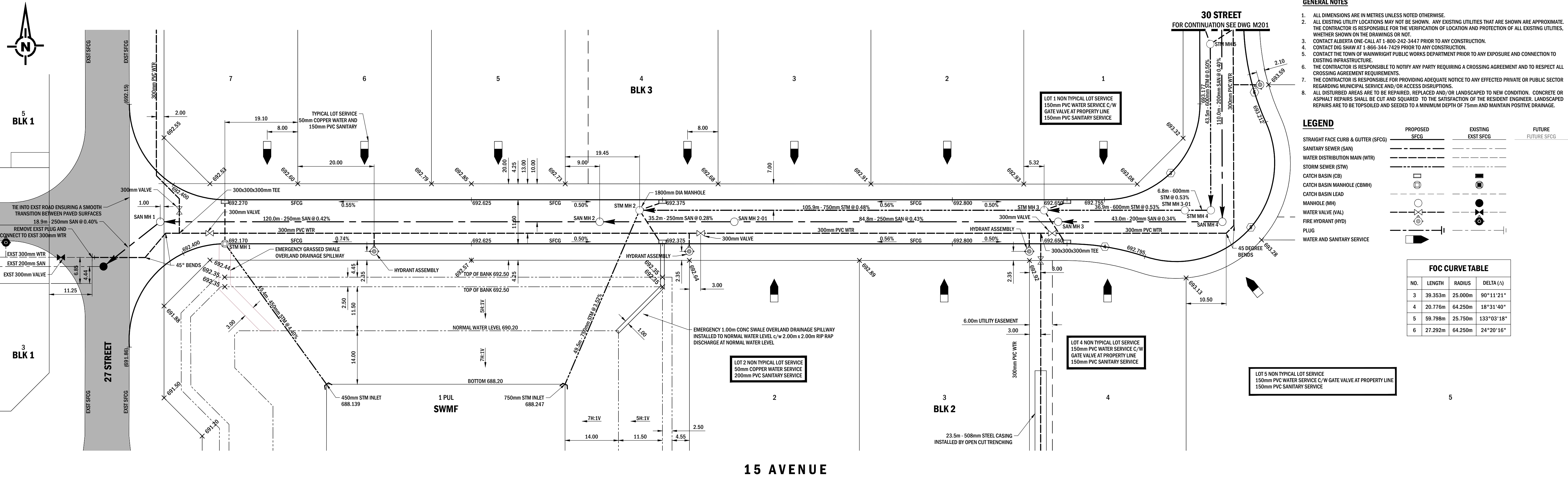
sec

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TOWN OF WAINWRIGHT
14/41 COMMON
 UNDERGROUND SERVICING & ROADS
 OVERALL PLAN
 LOT GRADING

121-13006-2-M102

FILENAME: 121-13006-2-M200.DWG
 SOURCE: W: 0121-TOWN OF WAINWRIGHT; L21-13006-ARAMES SUBDIVISION; 3.0 DESIGN PROCESS; 3.3 ACAD; 3.3.3 WORKING DRAWINGS STAGE2 - UNDERGROUND
 DRAWN BY: WAINWRIGHT; PLOT DATE: December 15, 2014



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 AND SIGNED BY
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 ON 14-03-05

REV. 0
 WAS STAMPED
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 JARRAD ELLIOTT
 P.ENG AB
 ON 14-03-05

PERMIT ENGINEER

REV	Y	M	D	REVISION DESCRIPTION	DRN	SUPV	DES	CHK	ENG	APP
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0	14	03	05	ISSUE FOR CONSTRUCTION						

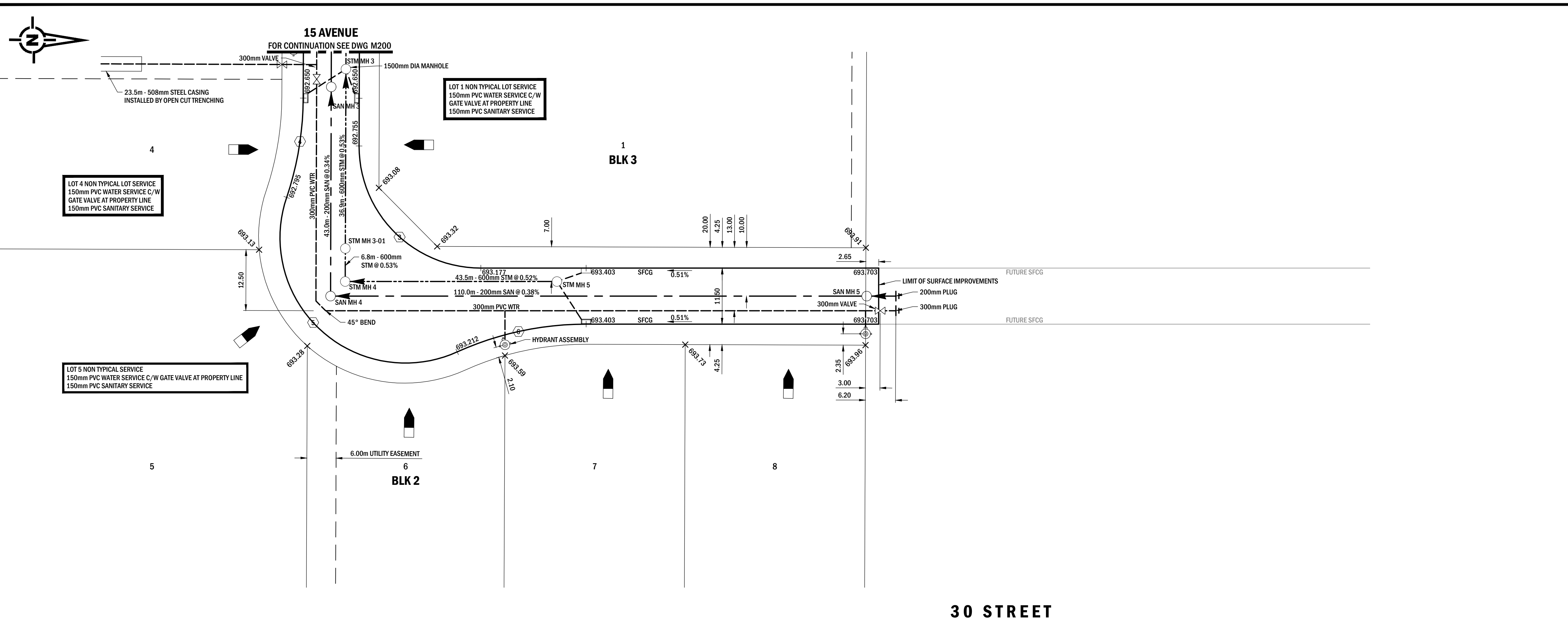
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TOWN OF WAINWRIGHT
14/41 COMMON
 UNDERGROUND SERVICING & ROADS
 PLAN / PROFILE
 15 AVENUE - STA 0+000 TO 0+325

121-13006-2-M200

FILE NAME: 121-13006-2-M201.DWG SOURCE: W:\0121-TOWN OF WAINWRIGHT\121-13006-ARABERS SUBMISSION\3.0 DESIGN PROCESS\3.3 ACAD\3.3.3 WORKING DRAWINGS\STAGE 2 - UNDERGROUND PLOT DATE: December 15, 2014
 DRAWN BY: WAINWRIGHT
 CHECKED BY: WAINWRIGHT
 DESIGNED BY: WAINWRIGHT



GENERAL NOTES

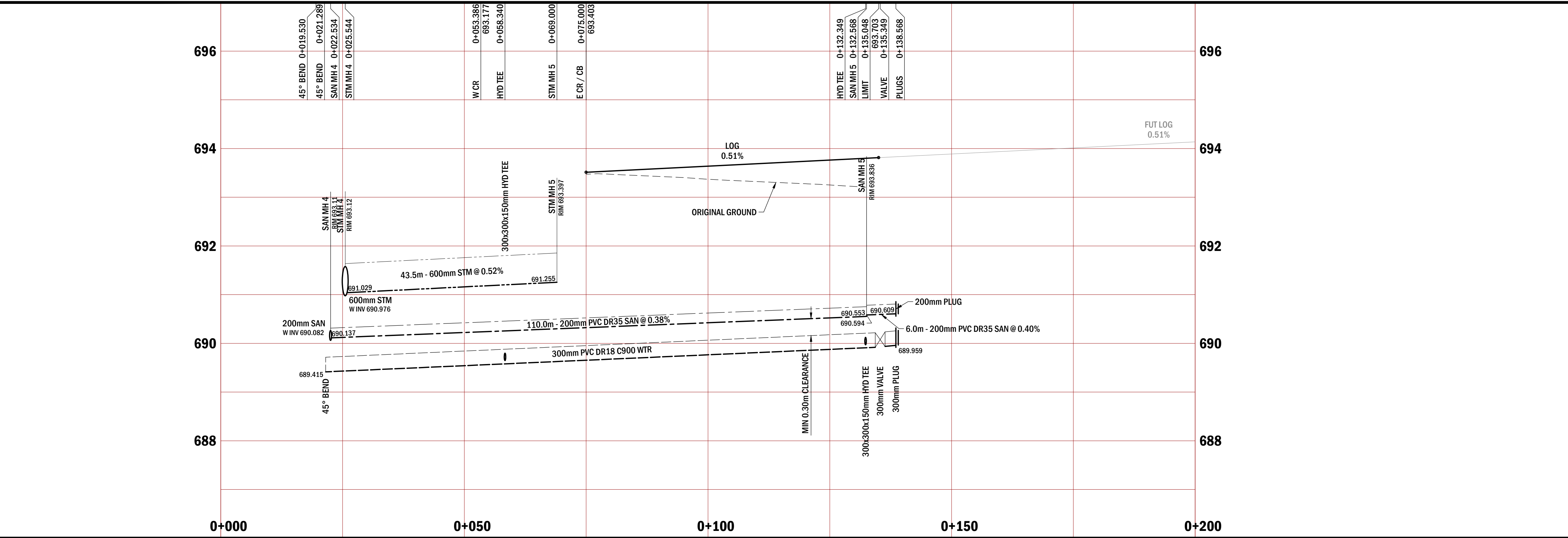
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LEGEND

	PROPOSED	EXISTING	FUTURE
STRAIGHT FACE CURB & GUTTER (SFCG)	SFCG	EXST SFCG	FUTURE SFCG
SANITARY SEWER (SAN)	---	---	---
WATER DISTRIBUTION MAIN (WTR)	---	---	---
STORM SEWER (STM)	---	---	---
CATCH BASIN (CB)	⊠	⊠	⊠
CATCH BASIN MANHOLE (CBMH)	⊠	⊠	⊠
CATCH BASIN LEAD	---	---	---
MANHOLE (MH)	⊙	⊙	⊙
WATER VALVE (VAL)	⊗	⊗	⊗
FIRE HYDRANT (HYD)	⊕	⊕	⊕
PLUG	⊖	⊖	⊖
WATER AND SANITARY SERVICE	---	---	---

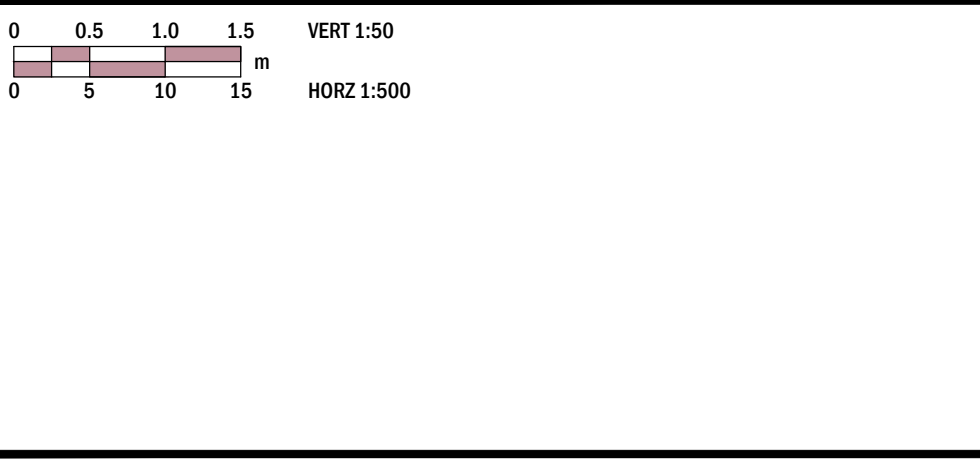
FOC CURVE TABLE

NO.	LENGTH	RADIUS	DELTA (Δ)
3	39.353m	25.000m	90°11'21"
4	20.776m	64.250m	18°31'40"
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PERMIT ENGINEER

REV	Y	M	D	REVISION DESCRIPTION	DRN	SUPV	DES	CHK	ENG	APP
1	14	12	12	ISSE FOR RECORD						
0	14	03	05	ISSUE FOR CONSTRUCTION						

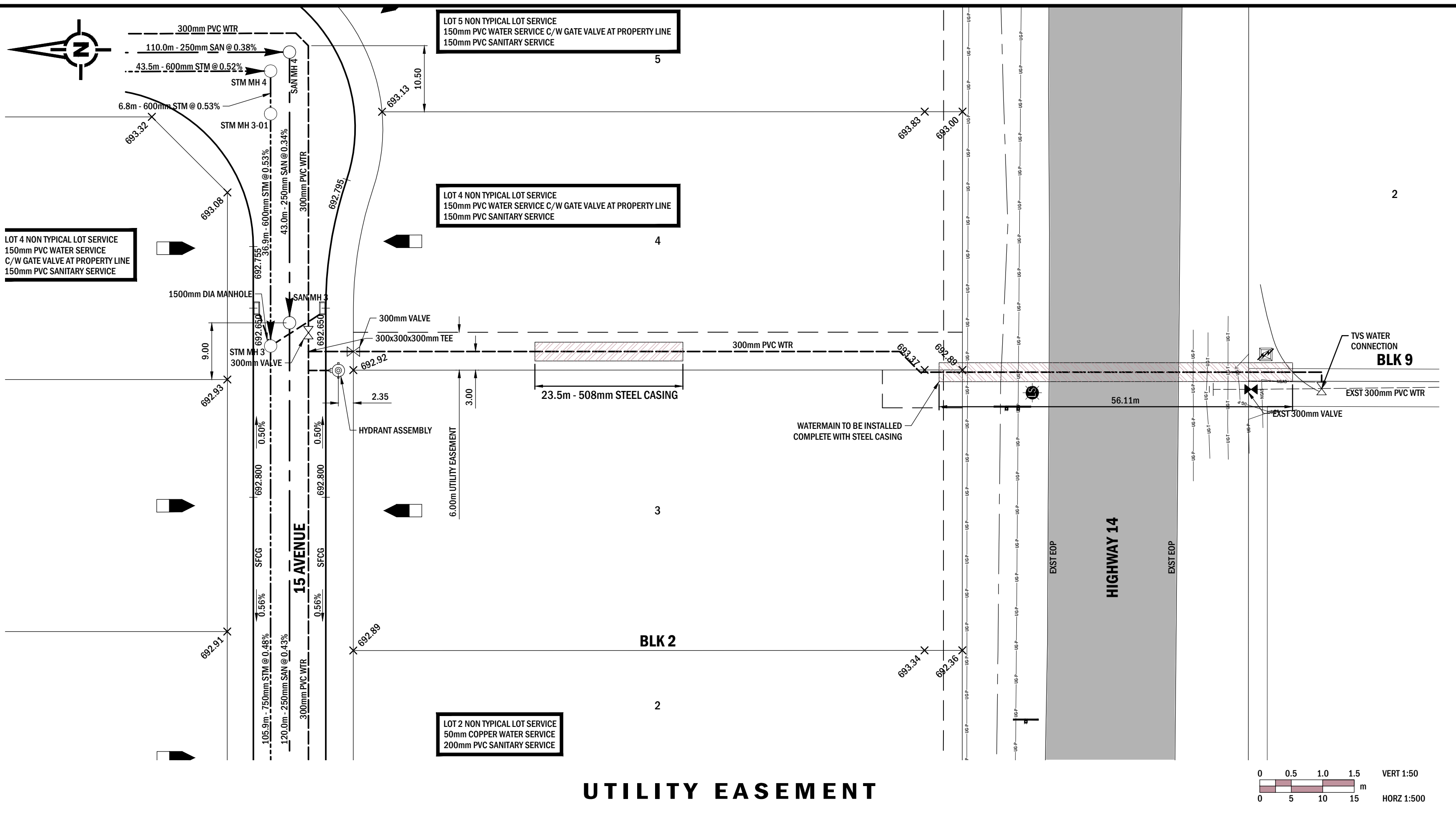
sec

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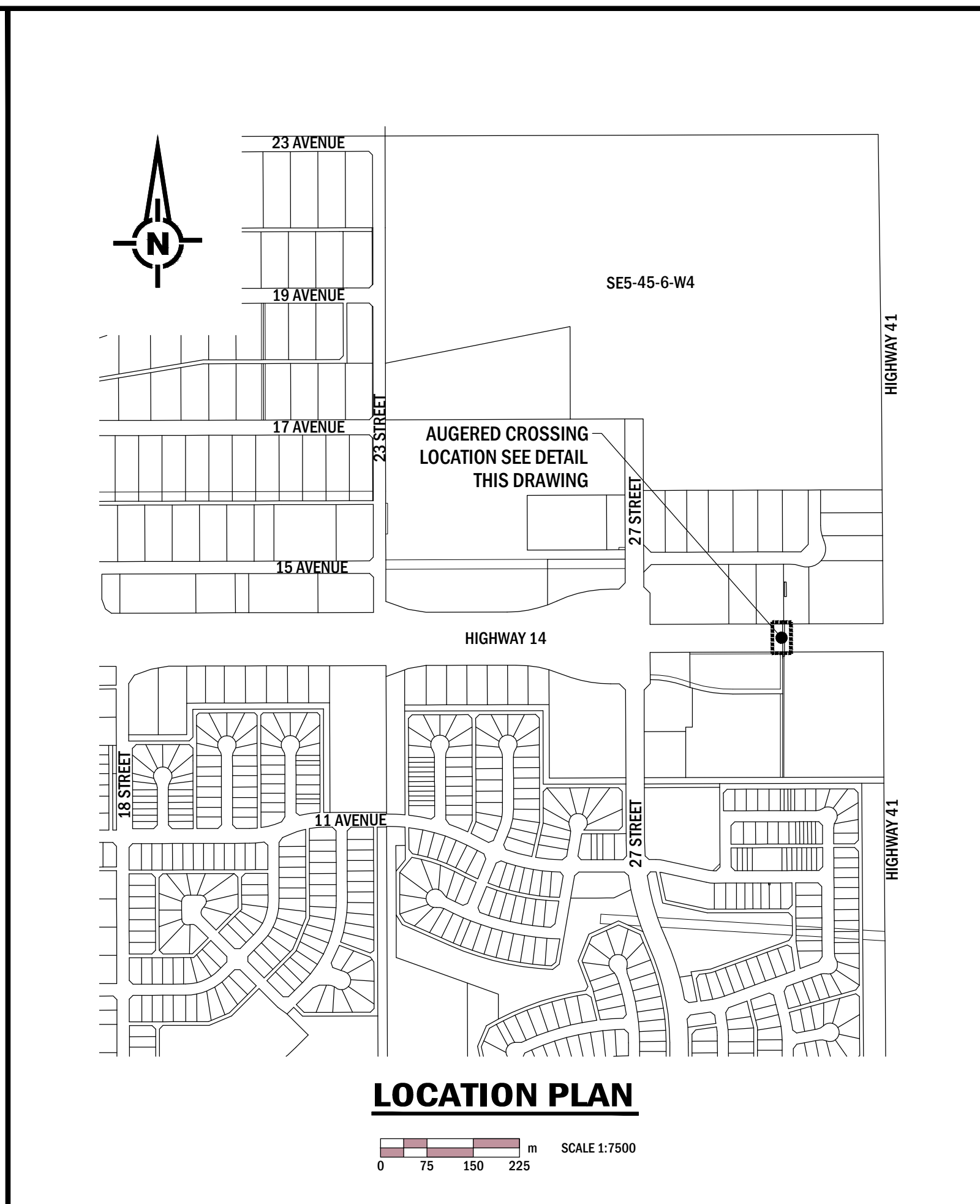
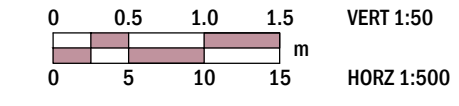
TOWN OF WAINWRIGHT
 14/41 COMMON
 UNDERGROUND SERVICING & ROADS
 PLAN / PROFILE
 30 STREET - STA 0+000 TO 0+200

DRIVING
121-13006-2-M201

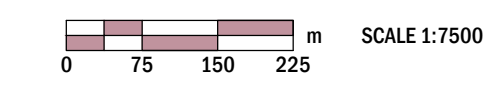
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 DRAWN BY: WAINWRIGHT DATE: December 15, 2014



UTILITY EASEMENT



LOCATION PLAN

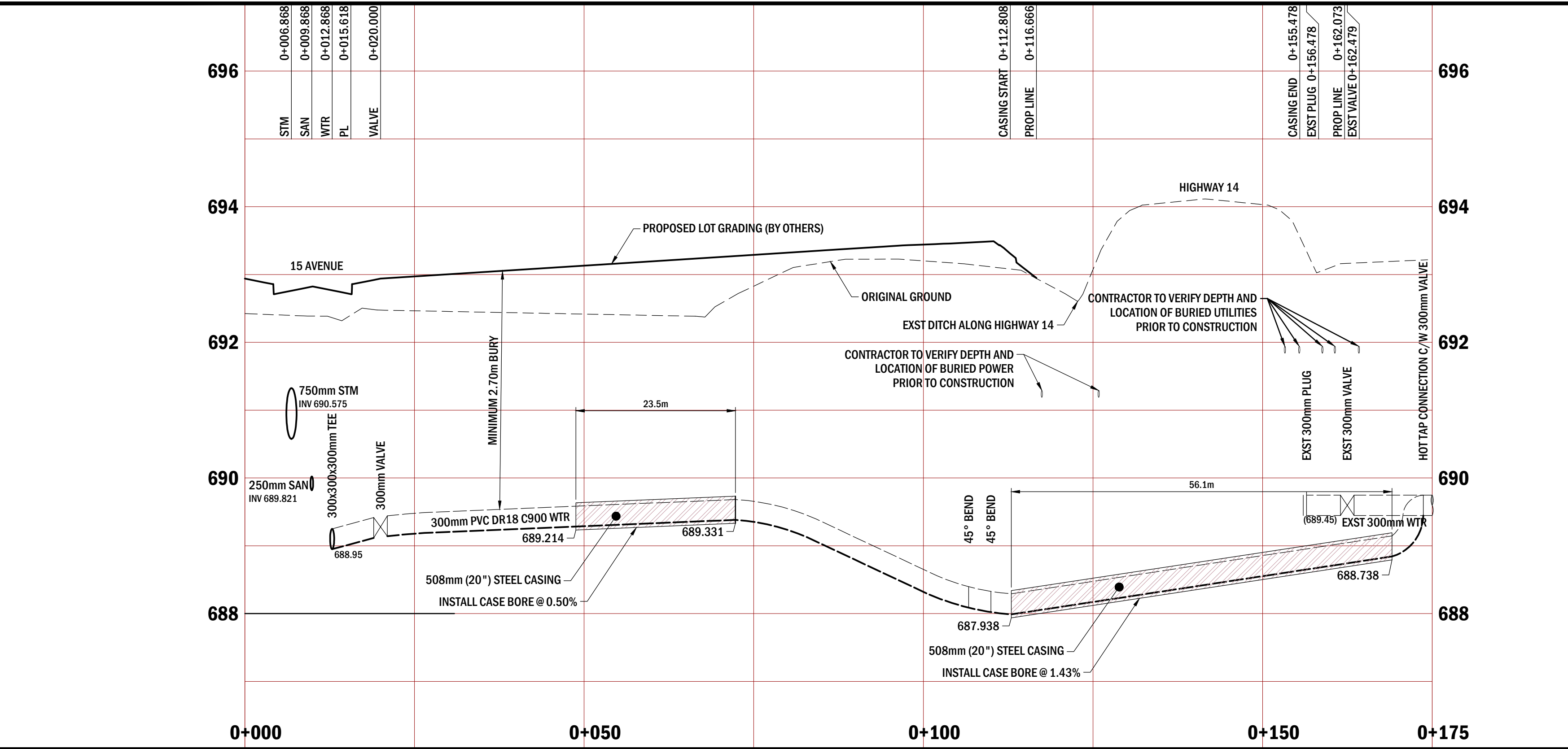


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LEGEND

	PROPOSED	EXISTING EXIST SFCG	FUTURE SFCG
STRAIGHT FACE CURB & GUTTER (SFCG)	[Symbol]	[Symbol]	[Symbol]
SANITARY SEWER (SAN)	[Symbol]	[Symbol]	[Symbol]
WATER DISTRIBUTION MAIN (WTR)	[Symbol]	[Symbol]	[Symbol]
CASED WATER MAIN (WTR)	[Symbol]	[Symbol]	[Symbol]
STORM SEWER (STW)	[Symbol]	[Symbol]	[Symbol]
CATCH BASIN (CB)	[Symbol]	[Symbol]	[Symbol]
CATCH BASIN MANHOLE (CBMH)	[Symbol]	[Symbol]	[Symbol]
CATCH BASIN LEAD	[Symbol]	[Symbol]	[Symbol]
MANHOLE (MH)	[Symbol]	[Symbol]	[Symbol]
WATER VALVE (VAL)	[Symbol]	[Symbol]	[Symbol]
FIRE HYDRANT (HYD)	[Symbol]	[Symbol]	[Symbol]
PLUG	[Symbol]	[Symbol]	[Symbol]
WATER AND SANITARY SERVICE	[Symbol]	[Symbol]	[Symbol]



WATERMAIN CROSSING SPECIFICATIONS

WATERMAIN CROSSING
 OWNER: TOWN OF WAINWRIGHT
 CONTENTS: POTABLE WATER
 INSTALLATION METHOD: STRUCTURAL CASE BORE

CASING PIPE
 OUTSIDE DIAMETER: 508 mm
 WALL THICKNESS: 9.5 mm
 TYPE: STEEL MEETING ASTM A252 STANDARDS
 TYPE OF JOINT: WELDED
 PROTECTION: CATHODIC
 LENGTH: 56.1m
 CASING PIPE TO BE LEFT OPEN ON EACH END

CARRIER PIPE
 AVERAGE OUTSIDE DIAMETER: 335 mm
 AVERAGE OUTSIDE BELL DIAMETER: 408 mm
 WALL THICKNESS: 19 mm
 MATERIAL: PVC
 GRADE: DR 18
 TYPE OF JOINT: BELL & SPIGOT
 MAXIMUM OPERATING PRESSURE: 65 psi
 CARRIER PIPE TO BE SUPPORTED WITHIN STEEL CASING

RECORD DRAWING
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 P.ENG. AB
 ON 14-03-05

REV. 0
 WAS STAMPED
 AND SIGNED BY
 JARRAD ELLIOTT
 P.ENG. AB
 ON 14-03-05

REV	Y	M	D	REVISION DESCRIPTION	DRN	SUPV	DES	CHK	ENG	APP
1	14	12	12	ISSUE FOR RECORD						
0	14	03	05	ISSUE FOR CONSTRUCTION						

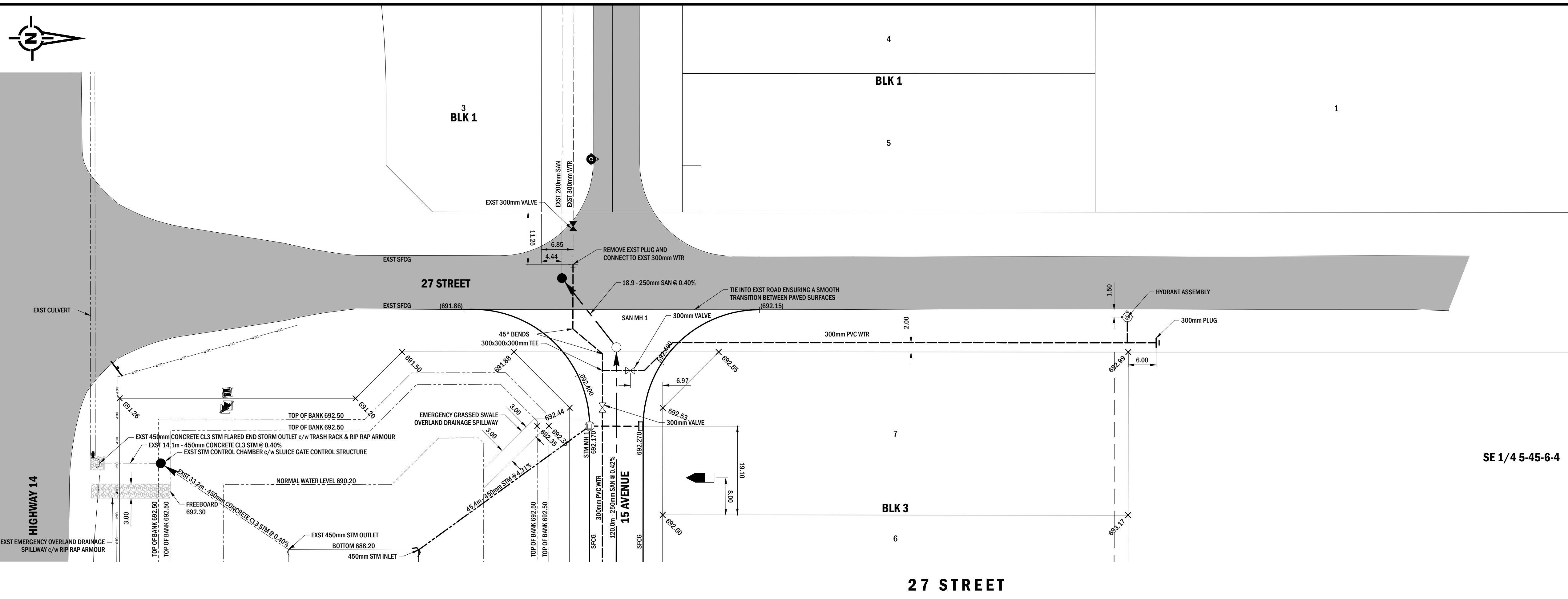


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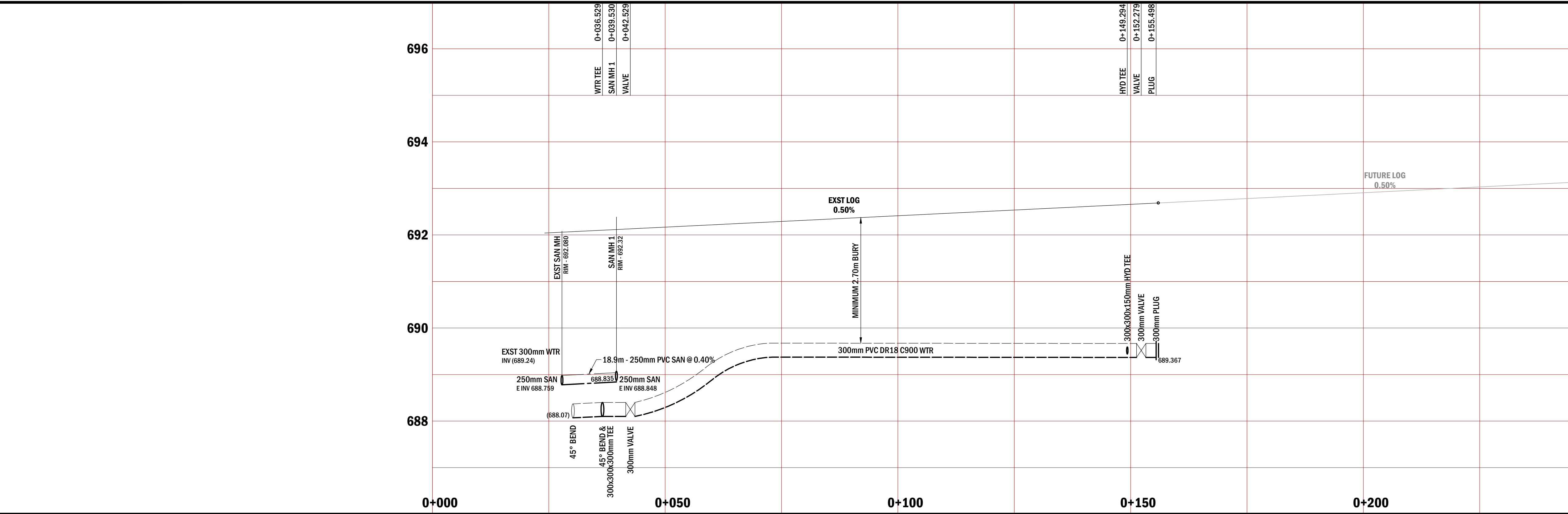
TOWN OF WAINWRIGHT
14/41 COMMON
 UNDERGROUND SERVICING & ROADS
 PLAN / PROFILE
 UTILITY EASEMENT - STA 0+000 TO 0+175

DRAWING
121-13006-2-M202

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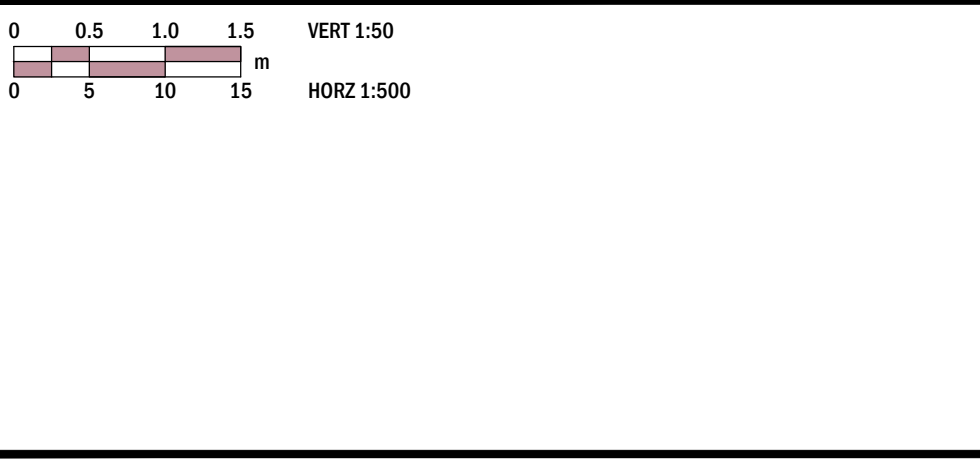


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- LEGEND**
- | | PROPOSED SFCG | EXISTING EXST SFCG | FUTURE SFCG |
|------------------------------------|---------------|--------------------|-------------|
| STRAIGHT FACE CURB & GUTTER (SFCG) | | | |
| SANITARY SEWER (SAN) | | | |
| WATER DISTRIBUTION MAIN (WTR) | | | |
| STORM SEWER (STM) | | | |
| CATCH BASIN (CB) | | | |
| CATCH BASIN MANHOLE (CBMH) | | | |
| CATCH BASIN LEAD | | | |
| MANHOLE (MH) | | | |
| WATER VALVE (VAL) | | | |
| FIRE HYDRANT (HYD) | | | |
| PLUG | | | |
| WATER AND SANITARY SERVICE | | | |



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 ON 14-03-05

REV. 0
 WAS STAMPED
 AND SIGNED BY
 JARRAD ELLIOTT
 P.ENG AB
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PERMIT
 ENGINEER

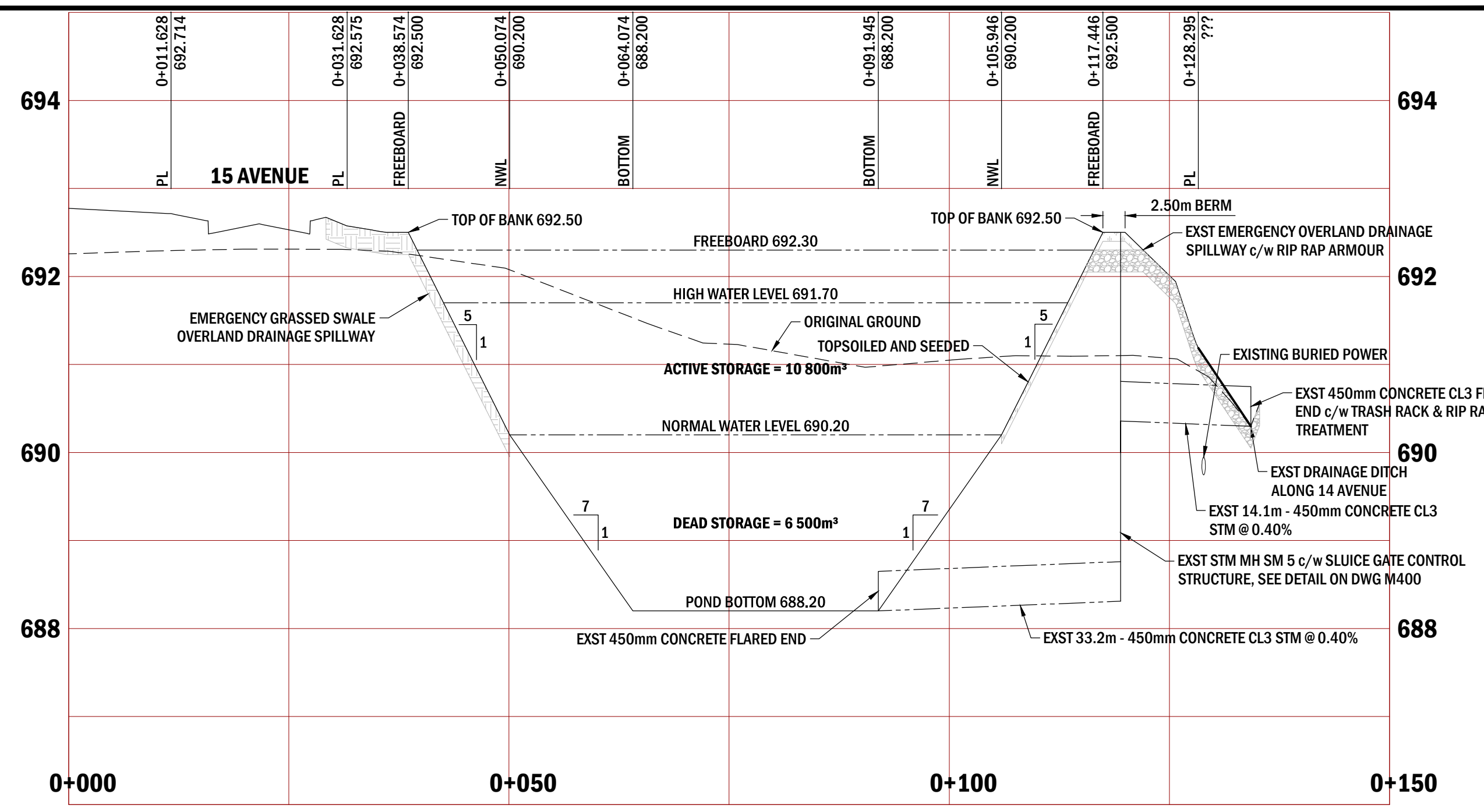
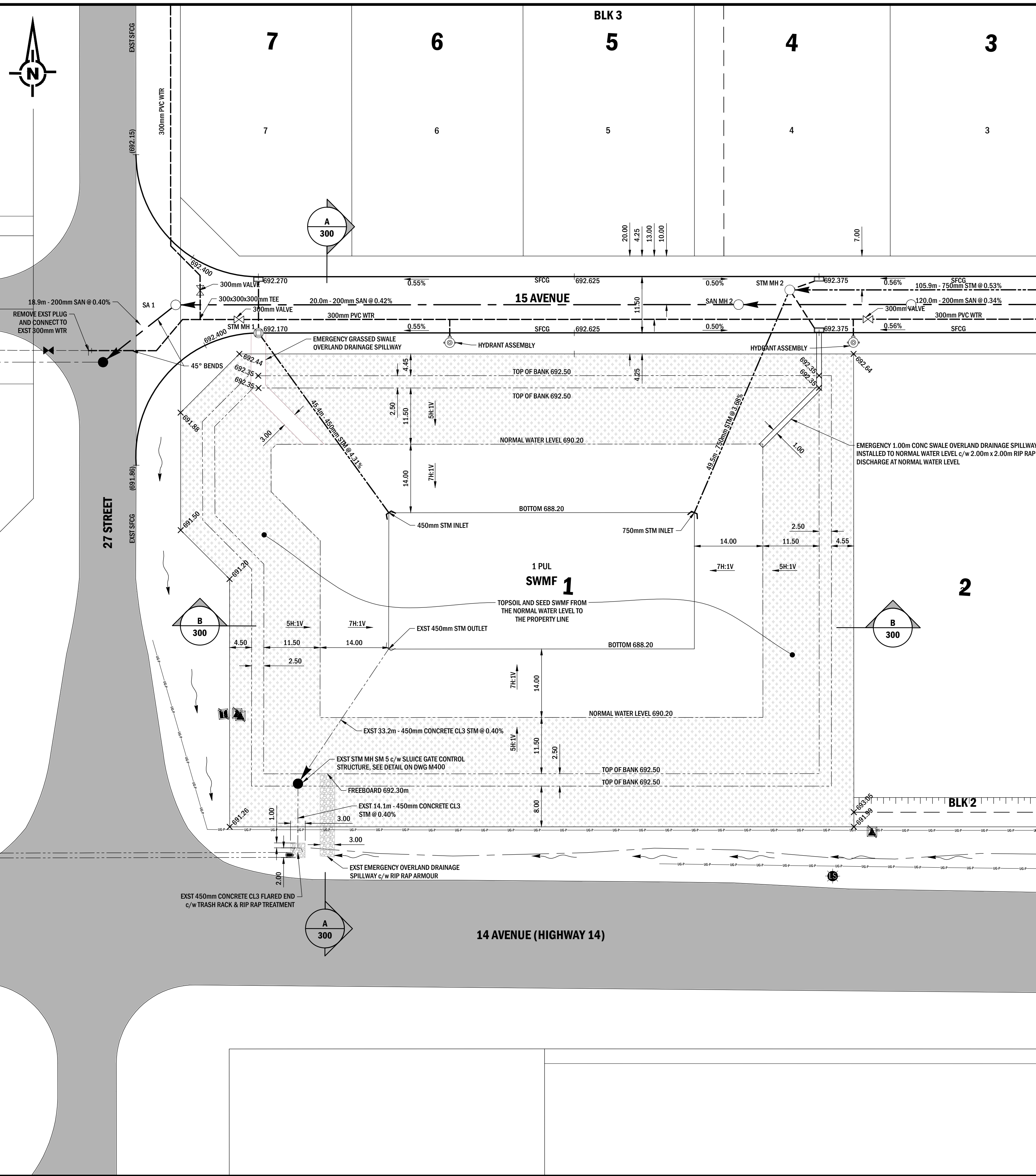
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PLAN / PROFILE
27 STREET - STA 0+000 TO 0+250

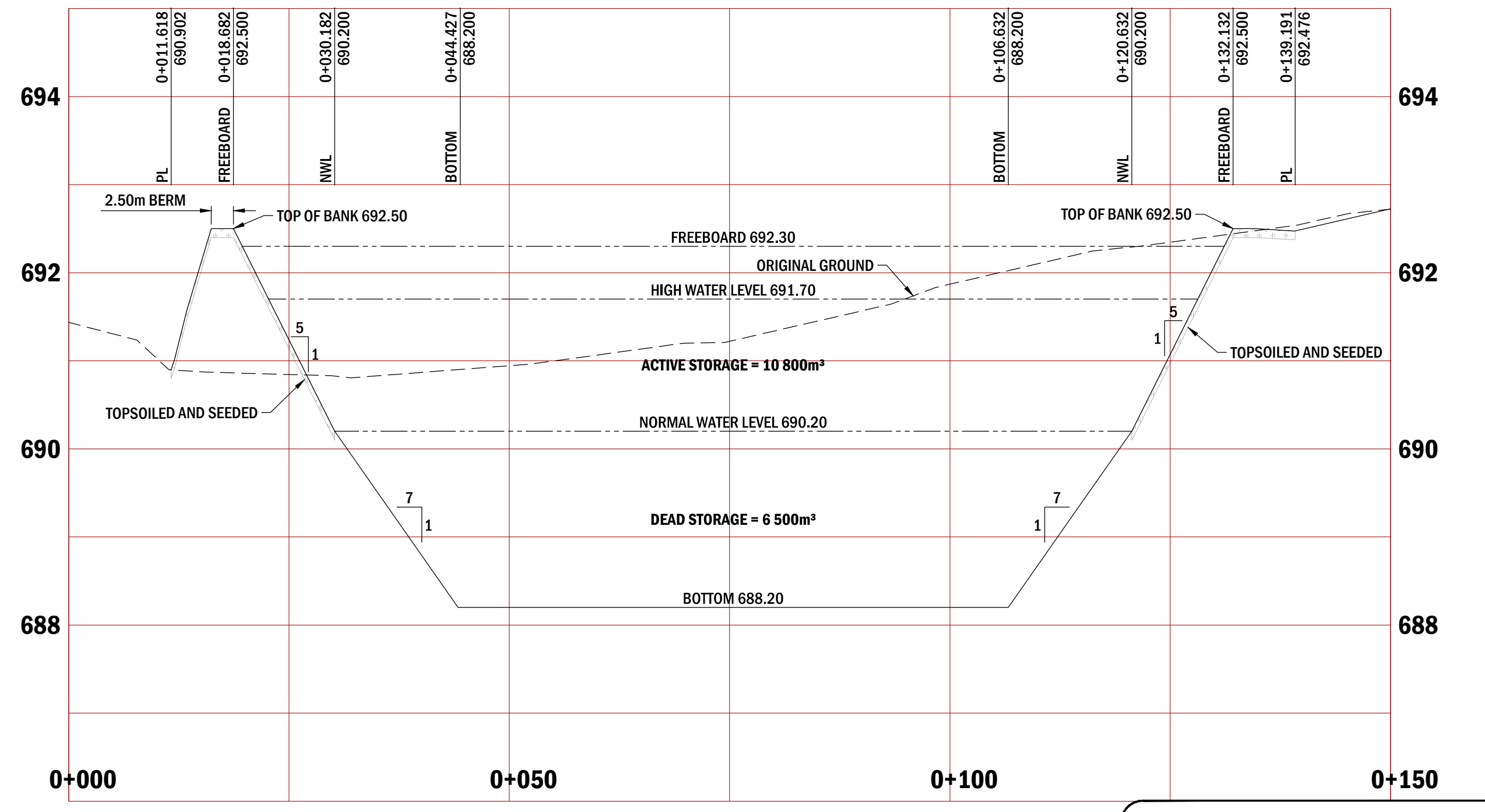
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SECTION
SWMF CROSS SECTION A

VERT 1:50
HORZ 1:500



SECTION
SWMF CROSS SECTION B

VERT 1:50
HORZ 1:500

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SCALE 1:500

0	5	10	15
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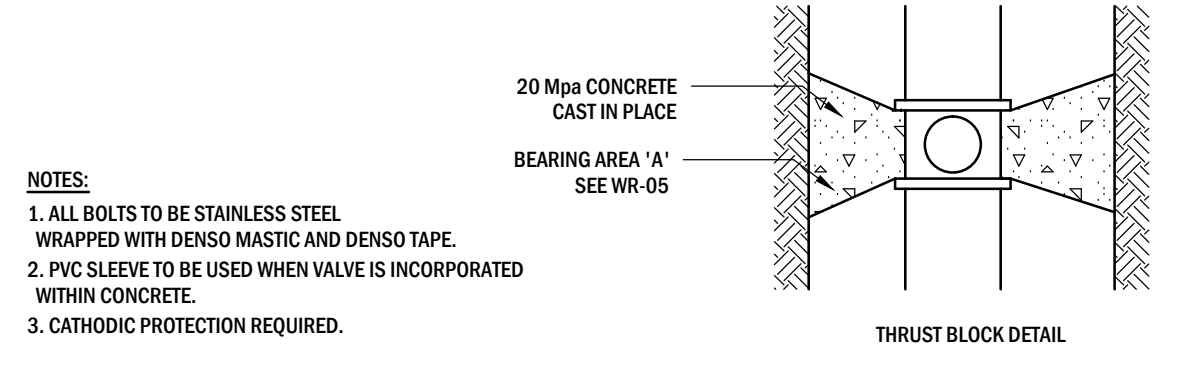
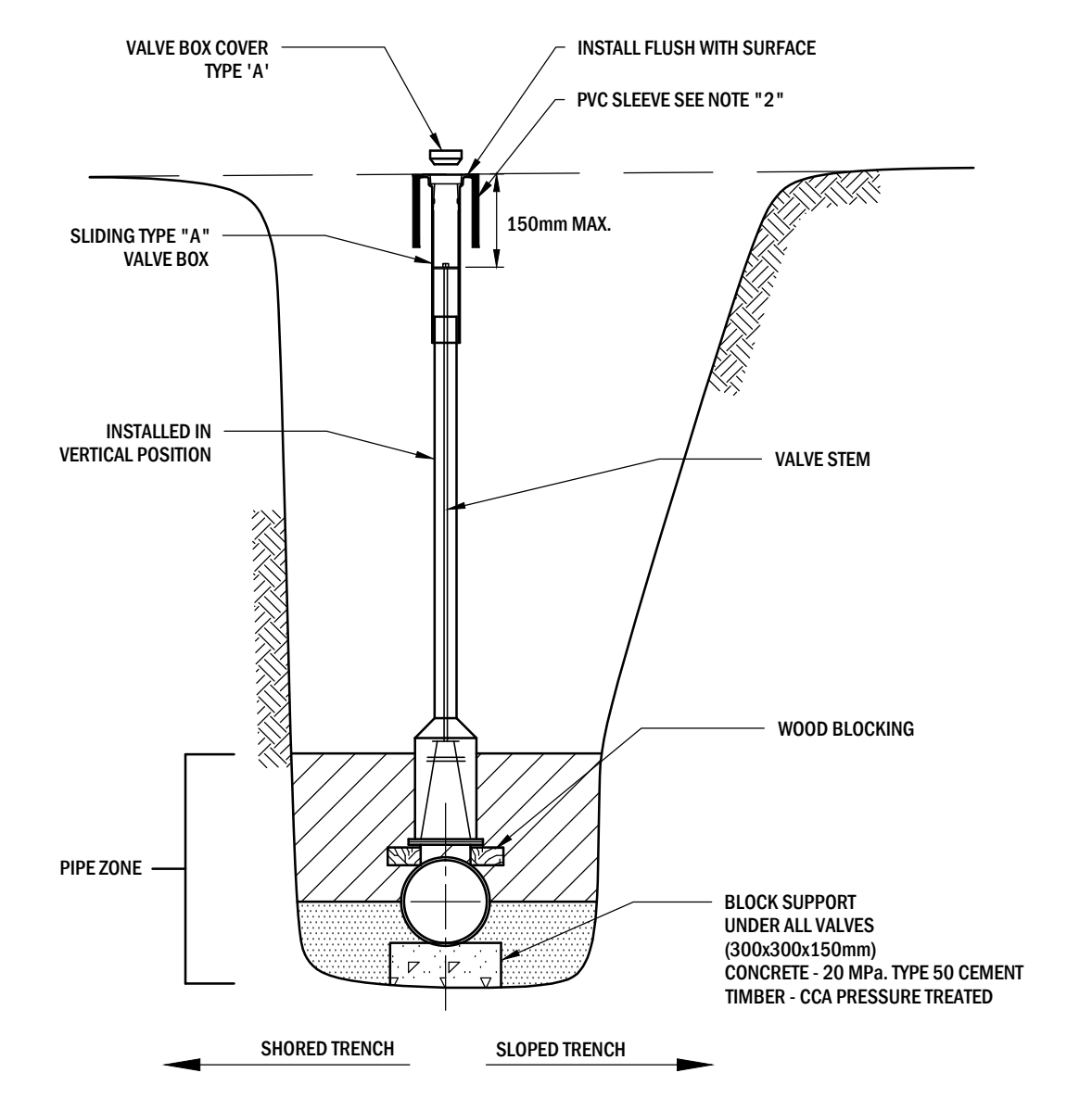


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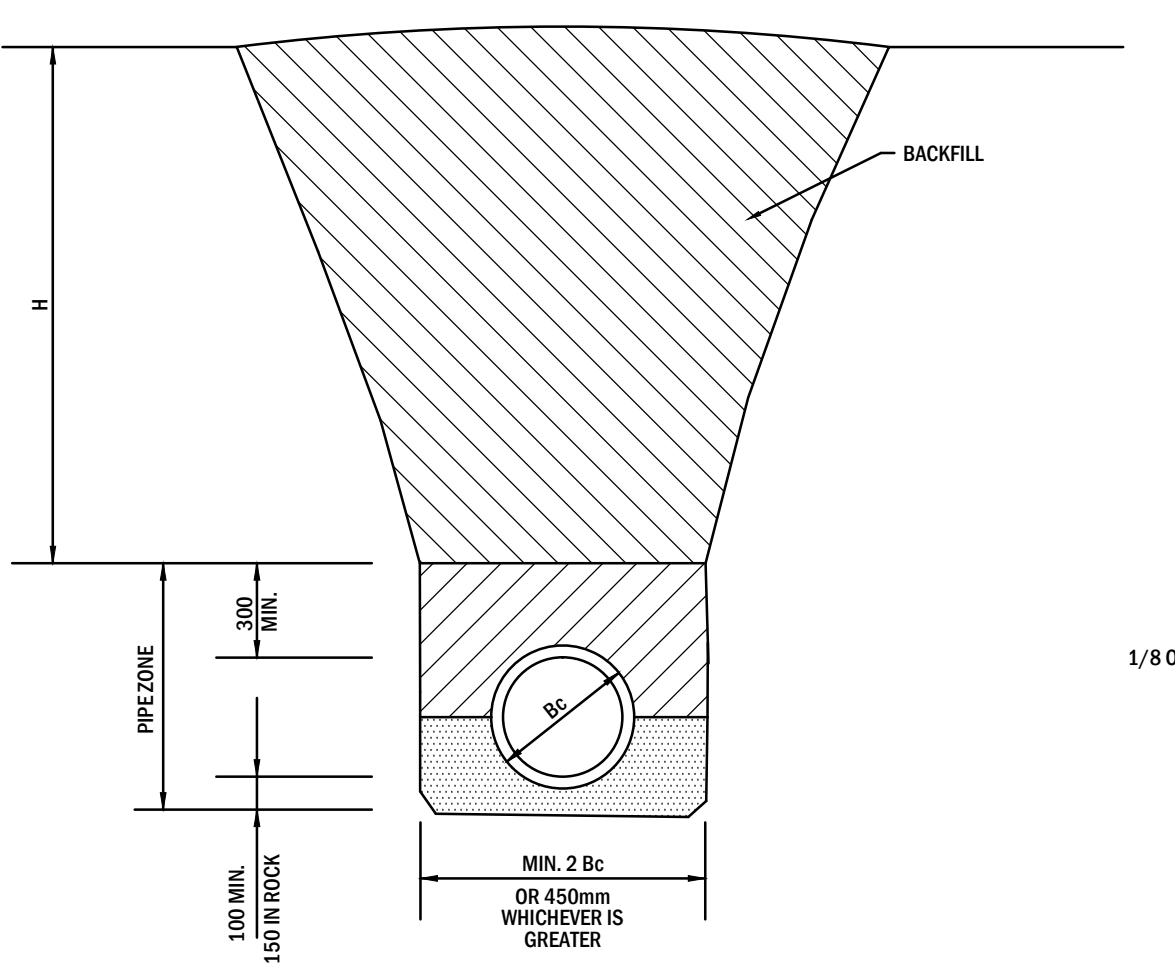
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1 PUL SWMF SECTIONS - CONSTRUCTED, FOR INFORMATION ONLY

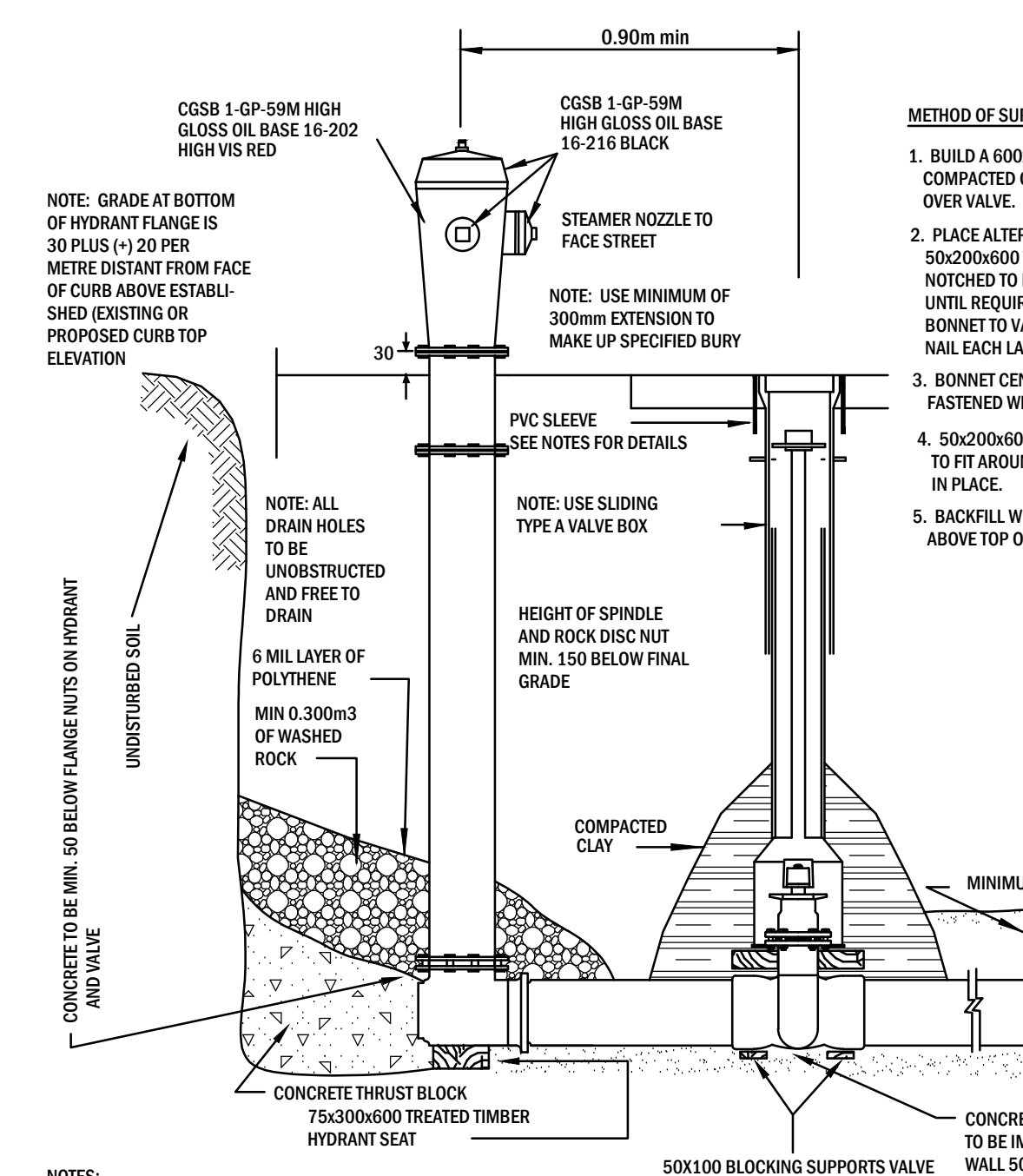
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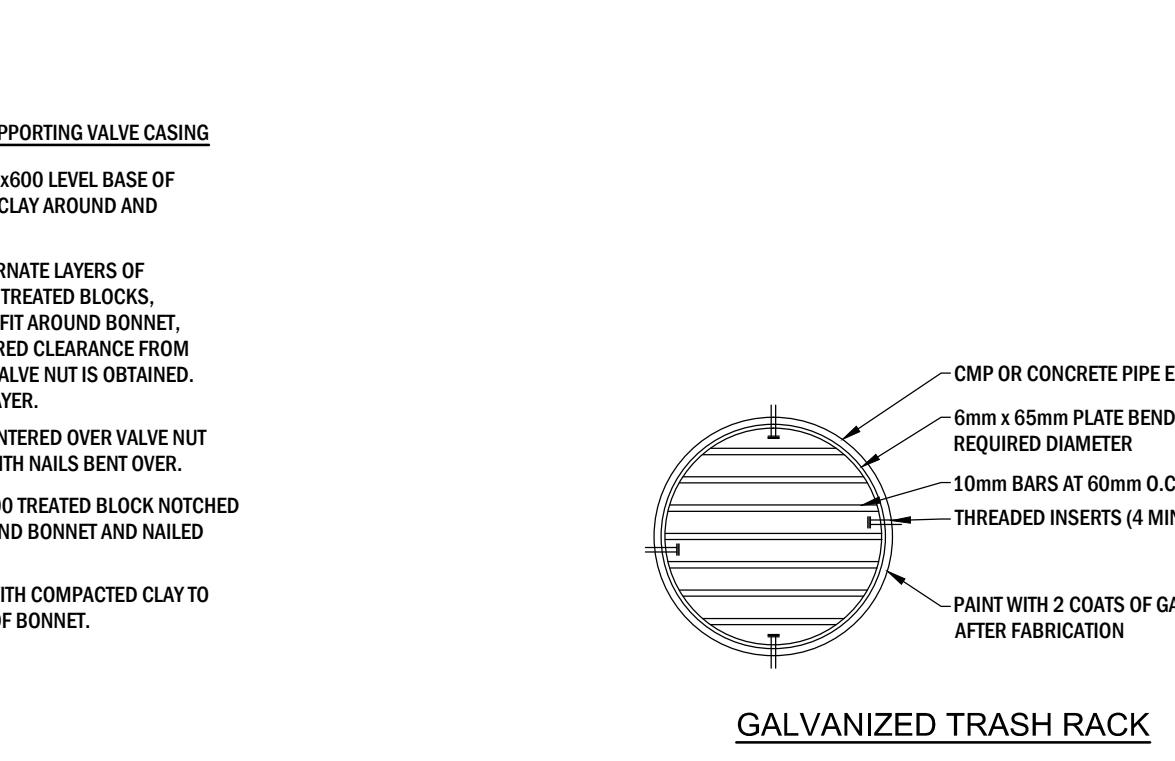
VALVE INSTALLATION DETAIL
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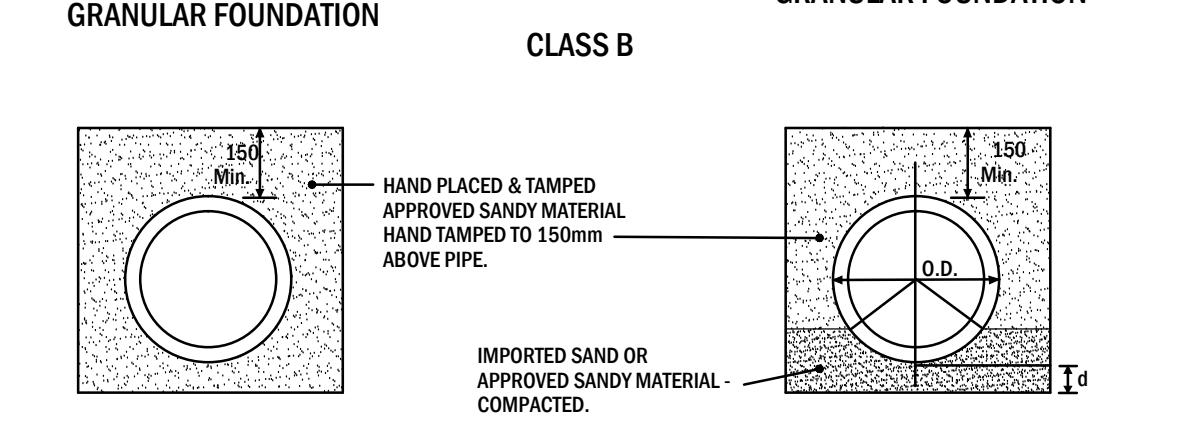
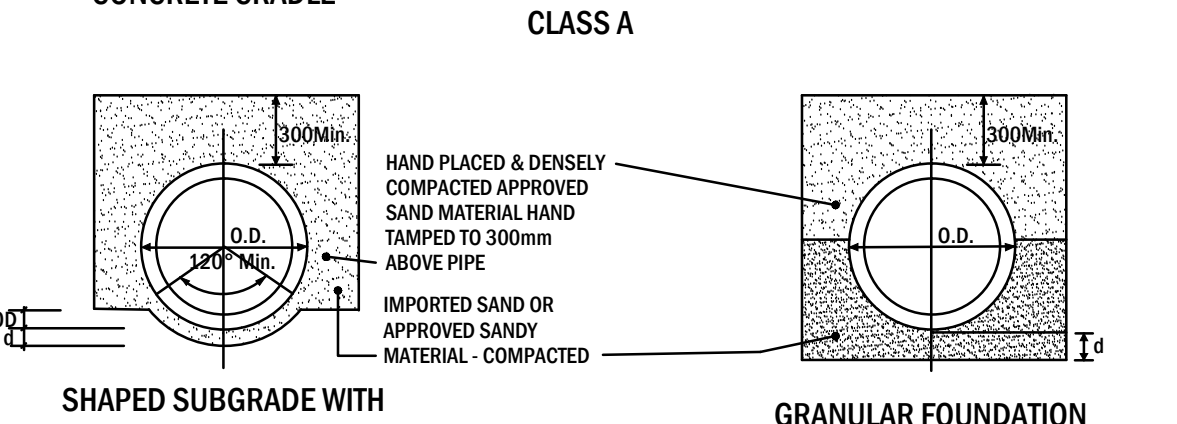
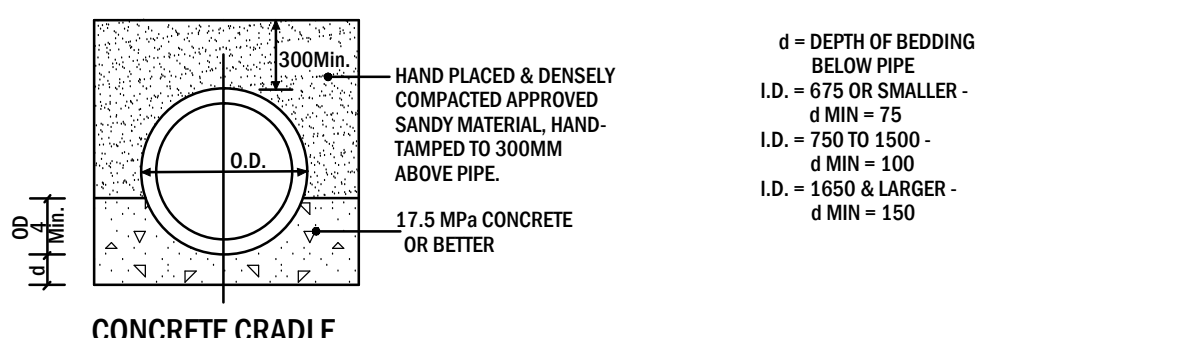
STANDARD TRENCH DETAIL
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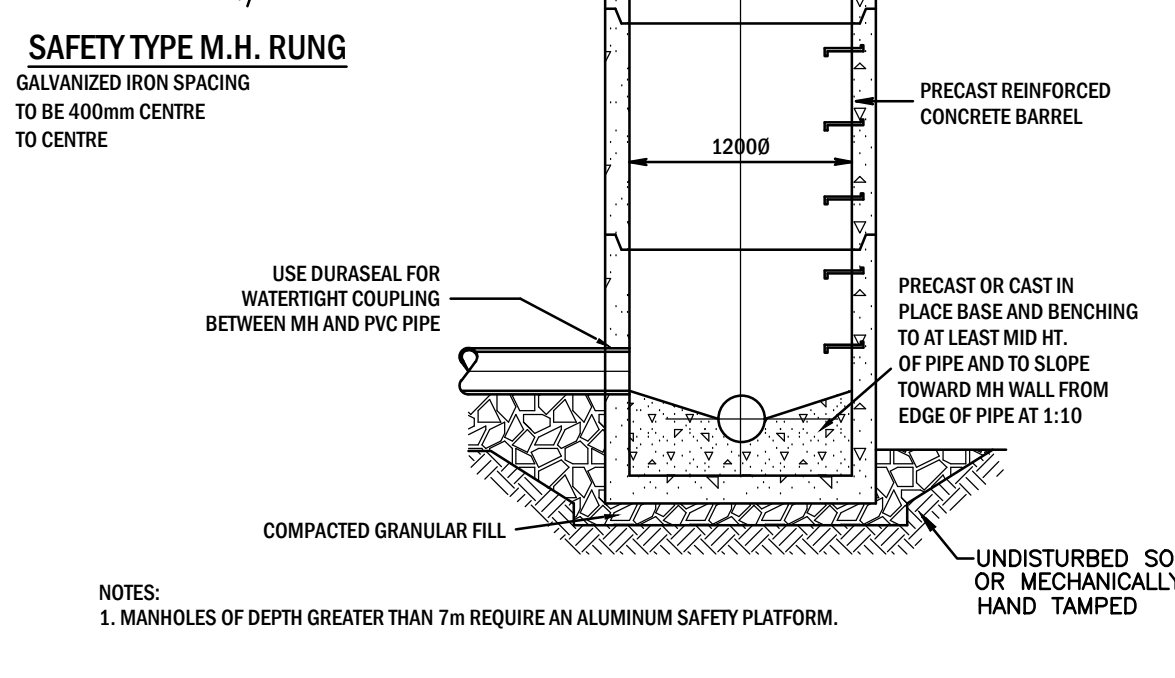
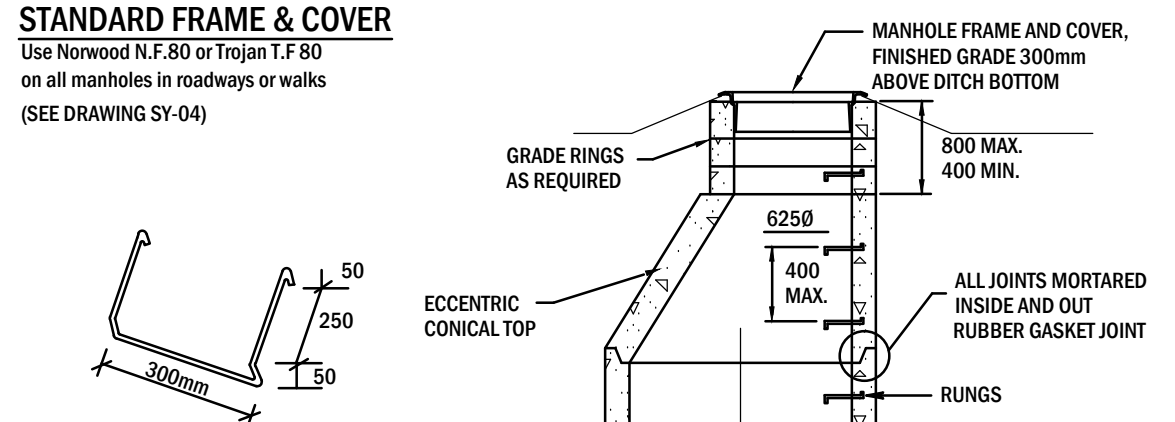
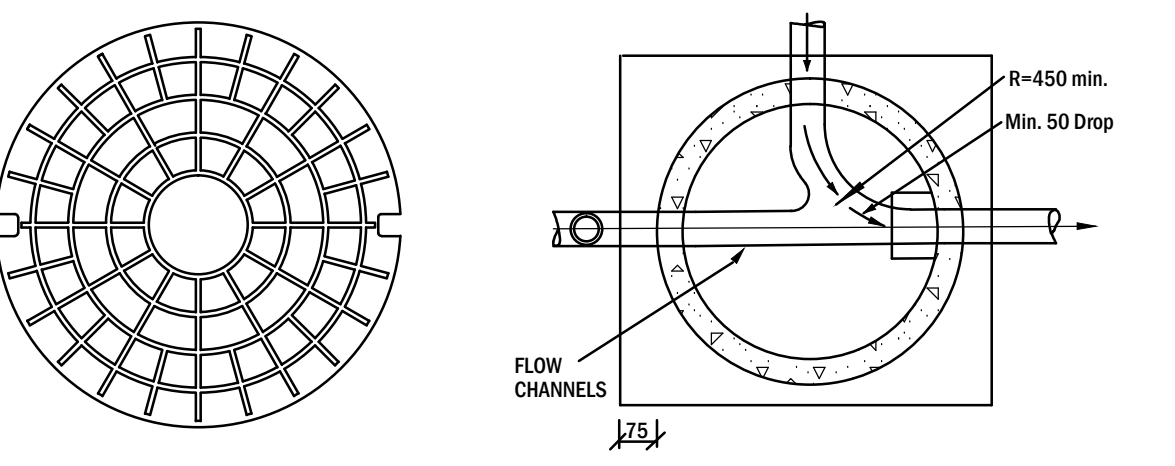
HYDRANT ASSEMBLY DETAIL
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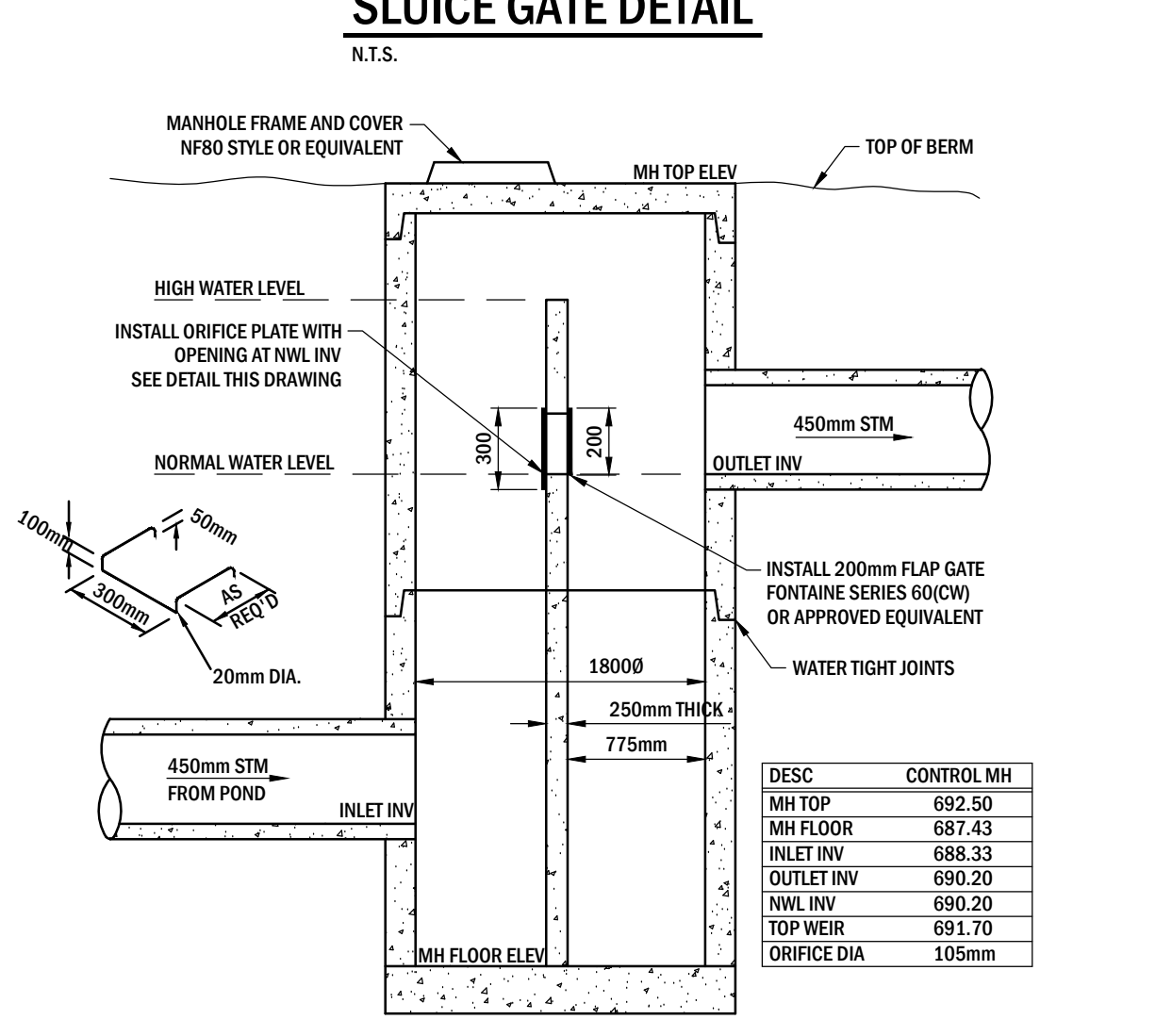
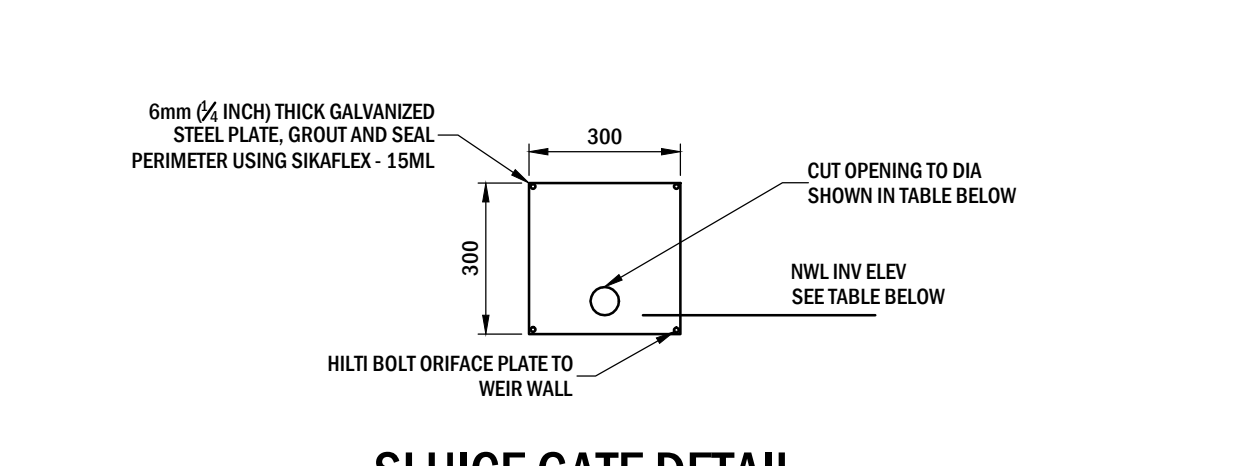
GALVANIZED TRASH RACK
PLAN VIEW



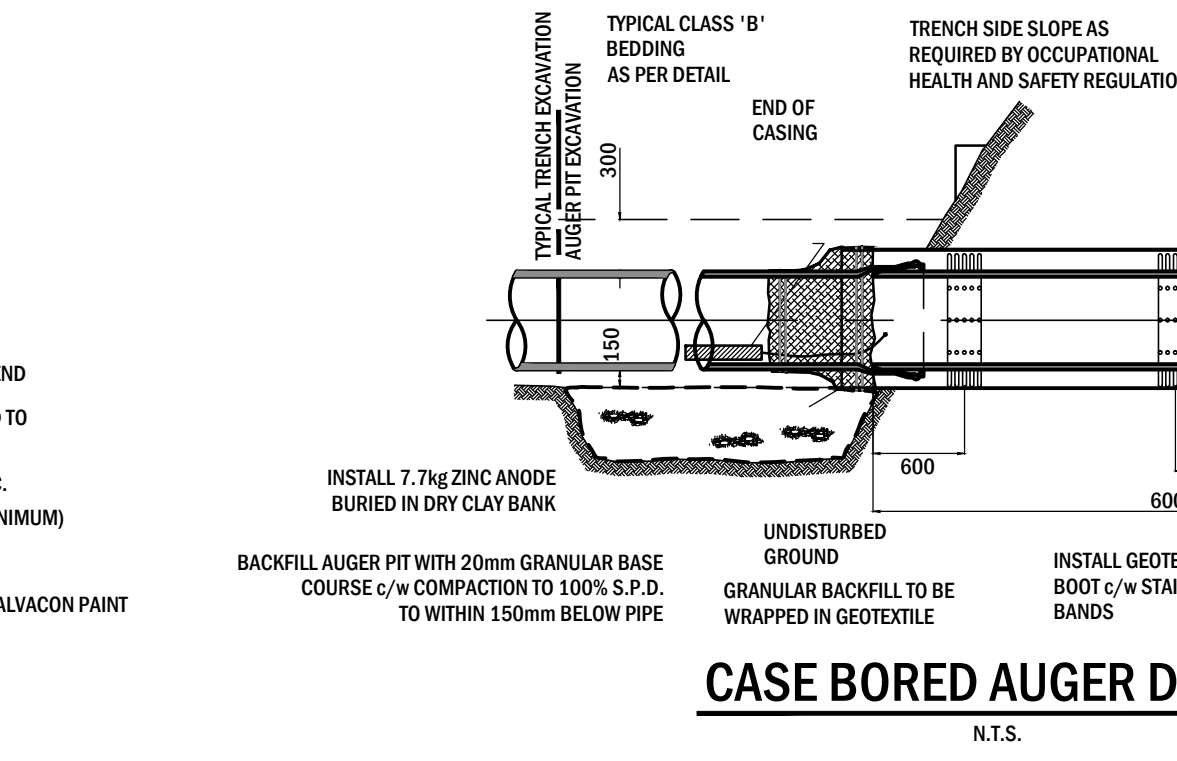
PIPE BEDDING TYPES
N.T.S.



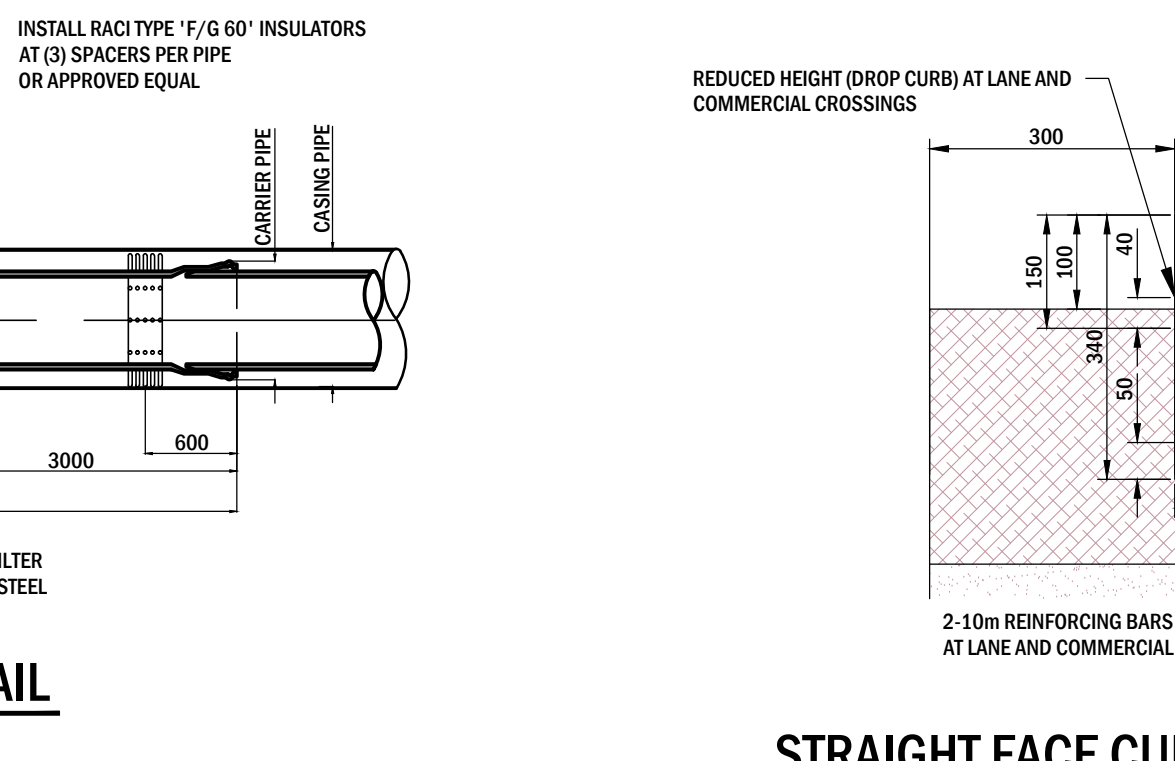
STANDARD MANHOLE DETAIL
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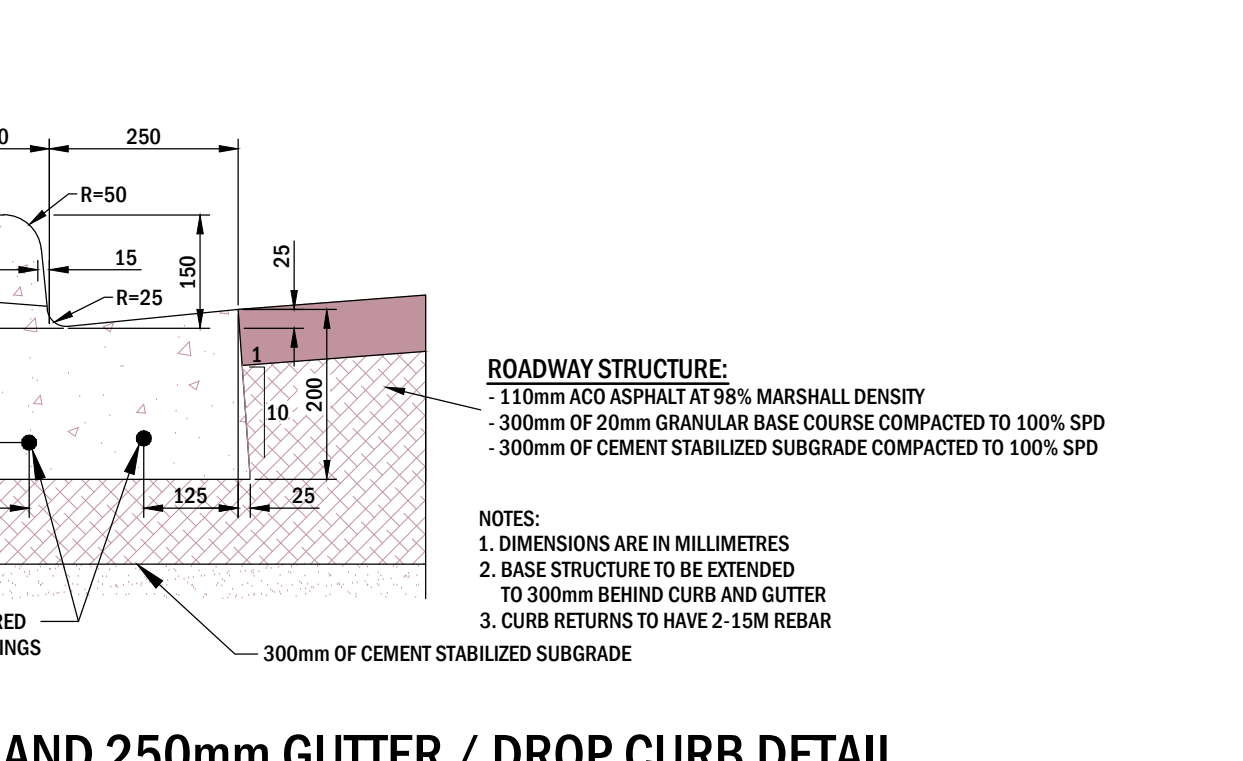
OUTLET CONTROL MANHOLE DETAIL
N.T.S.



CASE BORED AUGER DETAIL
N.T.S.



STRAIGHT FACE CURB AND 250mm GUTTER / DROP CURB DETAIL
N.T.S.



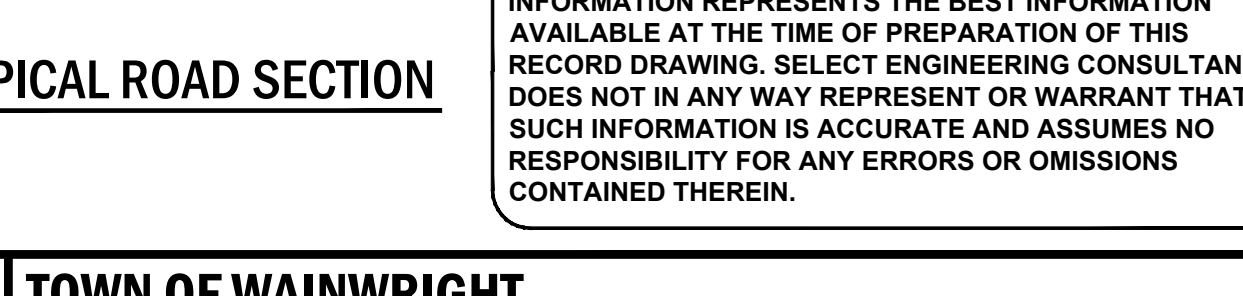
TYPICAL ROAD SECTION
N.T.S.



FLARED END DETAIL
SCALE: N.T.S.



RIP RAP ARMOUR DETAIL
SCALE: N.T.S.



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DETAILS

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