

Appendix A Drawings



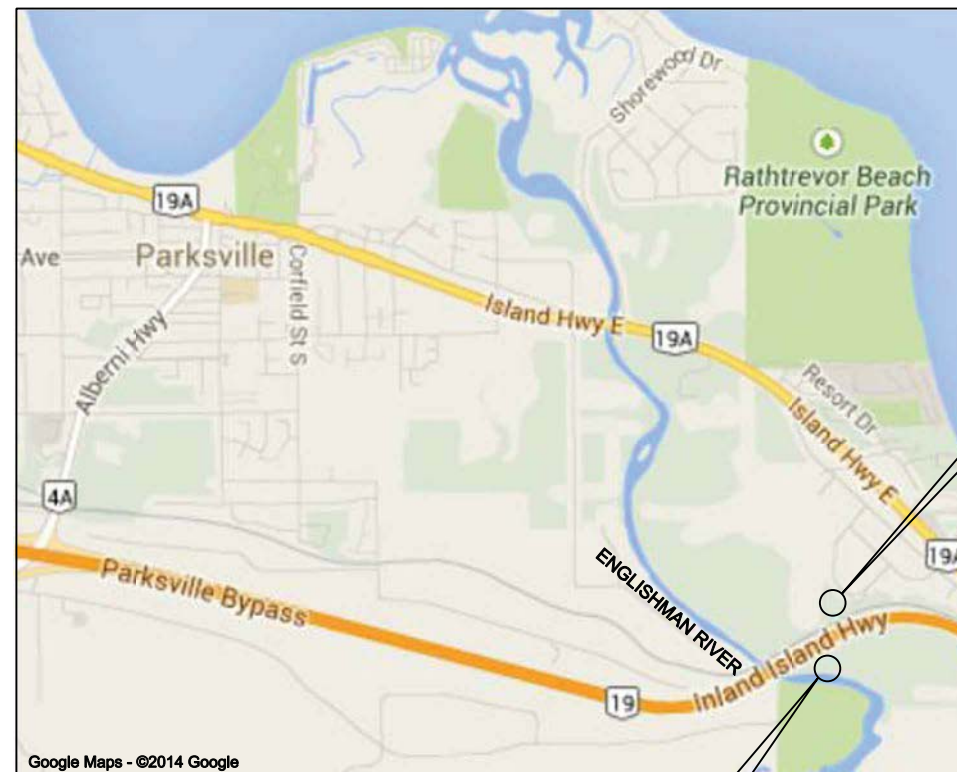
englishman river
WATER SERVICE

ENGLISHMAN RIVER WATER SERVICE INTAKE TREATMENT PLANT AND SUPPLY MAINS

PRE-DESIGN DRAWINGS
MAY 2014

DRAWING INDEX

DWG NO.	DRAWING TITLE
GENERAL	
G-001	COVER SHEET, DRAWING INDEX AND LOCATION MAP
G-003	OVERALL SITE PLAN
CIVIL	
C-110	ACCESS ROAD AND UTILITIES - PLAN AND PROFILE - SHEET 1
C-111	ACCESS ROAD AND UTILITIES - PLAN AND PROFILE - SHEET 2
C-115	WATER TREATMENT PLANT - SITE SERVICING PLAN
C-130	DISTRIBUTION MAIN UPGRADES - OVERALL PLAN
LANDSCAPE	
L-001	RAW WATER INTAKE AND PUMP STATION - SITE LAYOUT
L-002	WATER TREATMENT PLANT - SITE LAYOUT
PROCESS	
P-001	WATER TREATMENT PLANT - SCHEMATIC PROFILE
P-002	WATER TREATMENT PLANT - PROCESS FLOW DIAGRAM
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M-100	RAW WATER INTAKE AND WEIR - SITE PLAN
M-101	RAW WATER INTAKE AND WEIR - SECTIONS
M-102	RAW WATER INTAKE AND WEIR - DETAILS
M-110	RAW WATER PUMP STATION - SITE PLAN
M-110	RAW WATER PUMP STATION - FOUNDATION LEVEL PLAN
M-121	WATER TREATMENT PLANT - GRADE LEVEL PLAN
M-122	WATER TREATMENT PLANT - SECOND LEVEL PLAN
M-123	WATER TREATMENT PLANT - ROOF PLAN
M-124	WATER TREATMENT PLANT - SECTIONS - SHEET 1
M-130	WATER TREATMENT PLANT - SECTIONS - SHEET 2
M-131	WATER TREATMENT PLANT - SECTIONS - SHEET 3
M-132	WATER TREATMENT PLANT - SECTIONS - SHEET 3
ARCHITECTURAL	
A-120	WATER TREATMENT PLANT - GRADE LEVEL PLAN
A-121	WATER TREATMENT PLANT - SECOND LEVEL PLAN
A-125	WATER TREATMENT PLANT - SECTIONS - SHEET 1
ELECTRICAL	
E-001	SINGLE LINE DIAGRAM - SHEET 1
E-002	SINGLE LINE DIAGRAM - SHEET 2
INSTRUMENTATION	
I-001	NETWORK BLOCK DIAGRAM

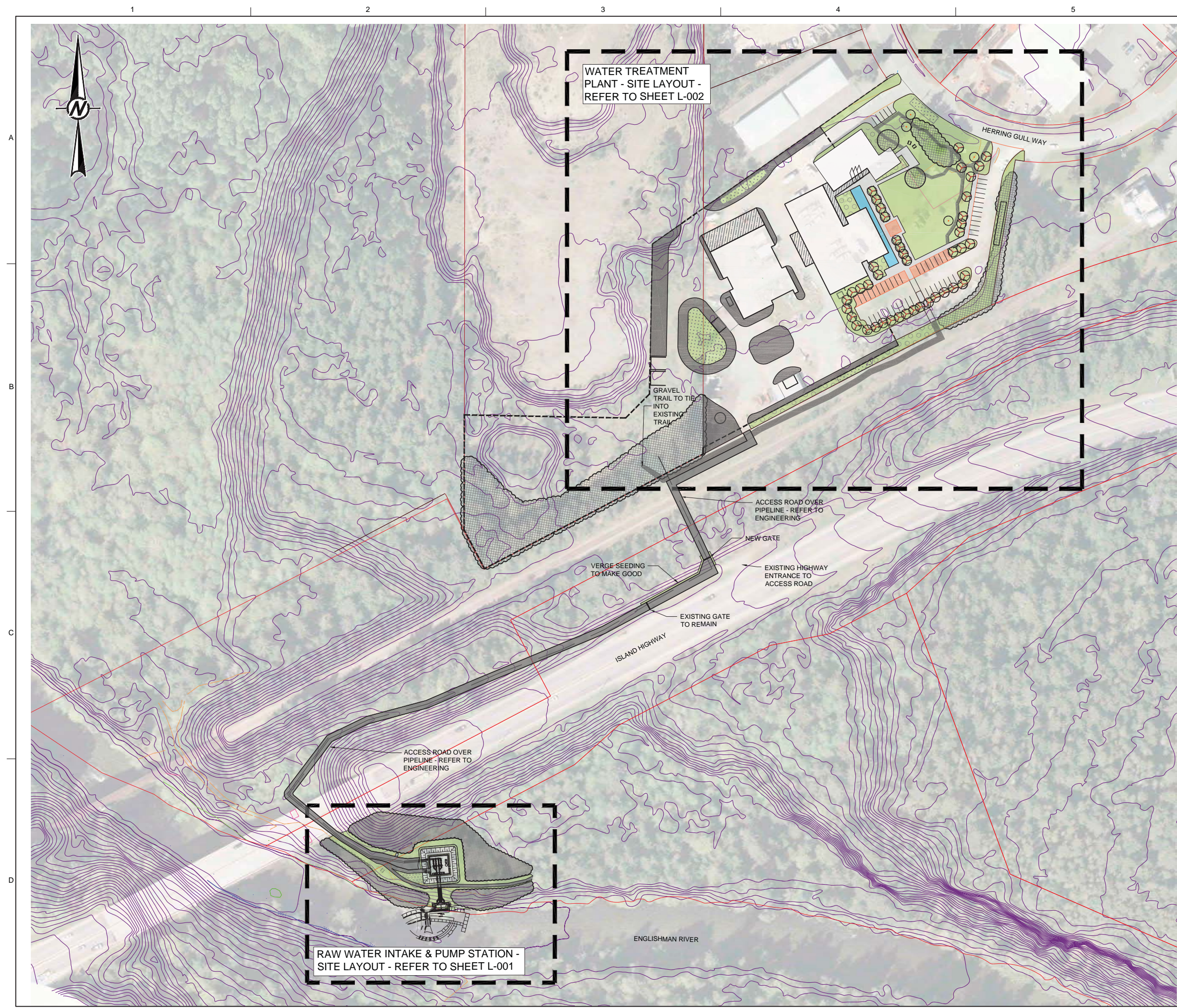


PROPOSED WTP

PROPOSED INTAKE
AND PUMP STATION

LOCATION MAP
NTS

CH2MHILL®



REFERENCES
 ALL BASE FACILITY LINEWORK FROM DIALOG CONSULTING LTD., DRAWING ESRW PLAN STUDY, DATED APRIL 14, 2014.
 BASE AERIAL IMAGERY, CONTOURS AND LEGAL BOUNDARIES PROVIDED BY KERR WOOD LEIDAL.

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NO.	DATE	DR	SP	DESIGNER	CHECKED-BY	SEALNAME
A	05/12/2014	ISSUED FOR PRE-DESIGN REVIEW	JZ			
			BY			
			APVD			

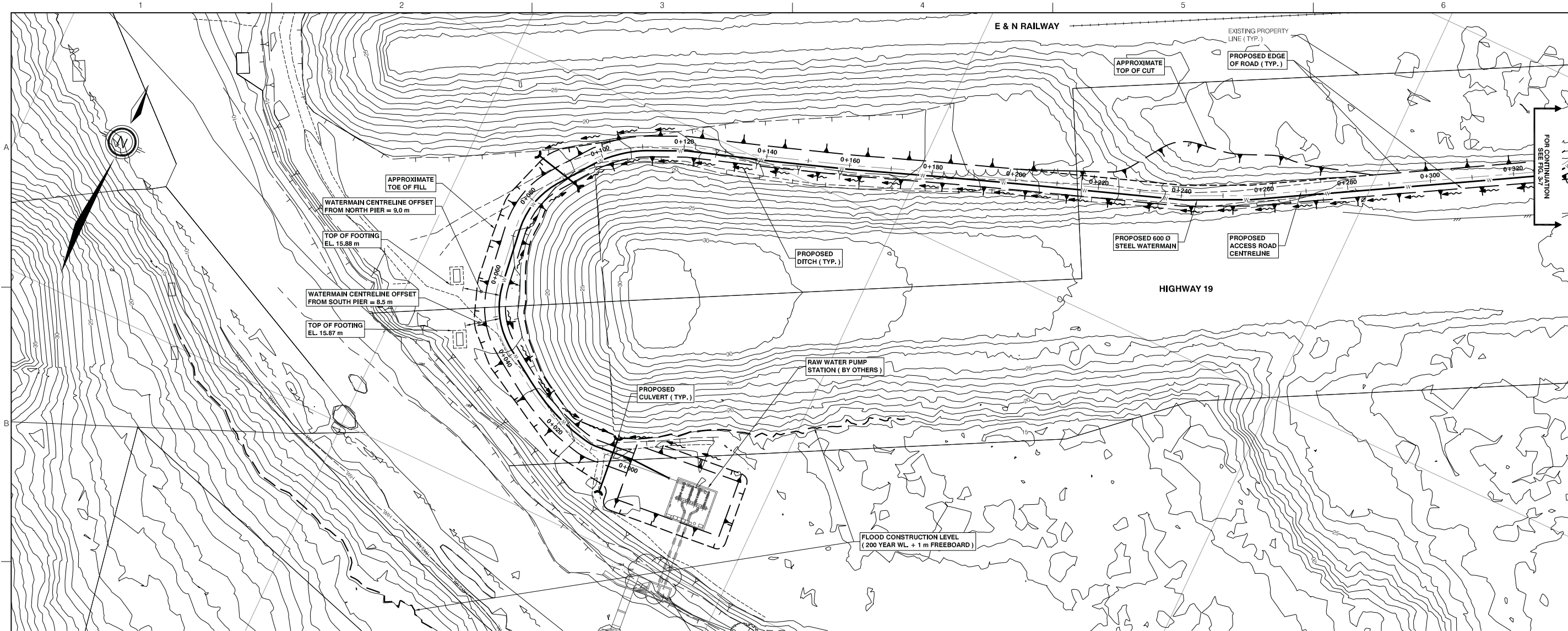
englishman river WATER SERVICE
 ENGLISHMAN RIVER WATER SERVICE INTAKE, TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL
 LANDSCAPE ARCHITECTURE
OVERALL SITE PLAN

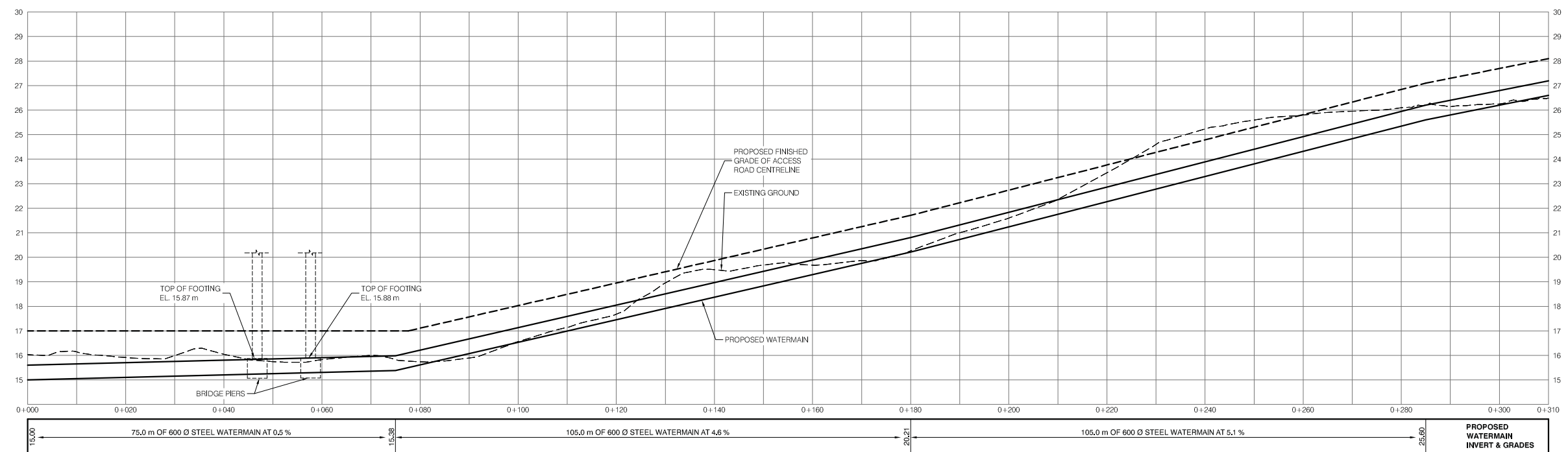
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 BAR IS ONE 25mm ON ORIGINAL DRAWING

DATE	2014/05/05
PROJ	13-1477-0018
DWG	G-003
SHEET	02 of 27

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PLAN
Scale: 1:500



PROFILE
Scale: H: 1:500 V: 1:100

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NO.	DATE	REVISION	CHK	MP	APVD
D	2014/05/09	REVISED WATERMAIN SIZE AND TYPE			
C	2014/02/21	UPDATE WTP LOCATION, REVISED ACCESS ROAD LOCATION			
B	2014/01/21	PRELIMINARY DESIGN - ADDED BRIDGE FOOTINGS			
A	2013/12/09	PRELIMINARY DESIGN			



CH2MHILL KERR WOOD LEIDAL
CONSULTING ENGINEERS

CIVIL
ACCESS ROAD AND UTILITIES PLAN AND PROFILE SHEET 1

1" = X'

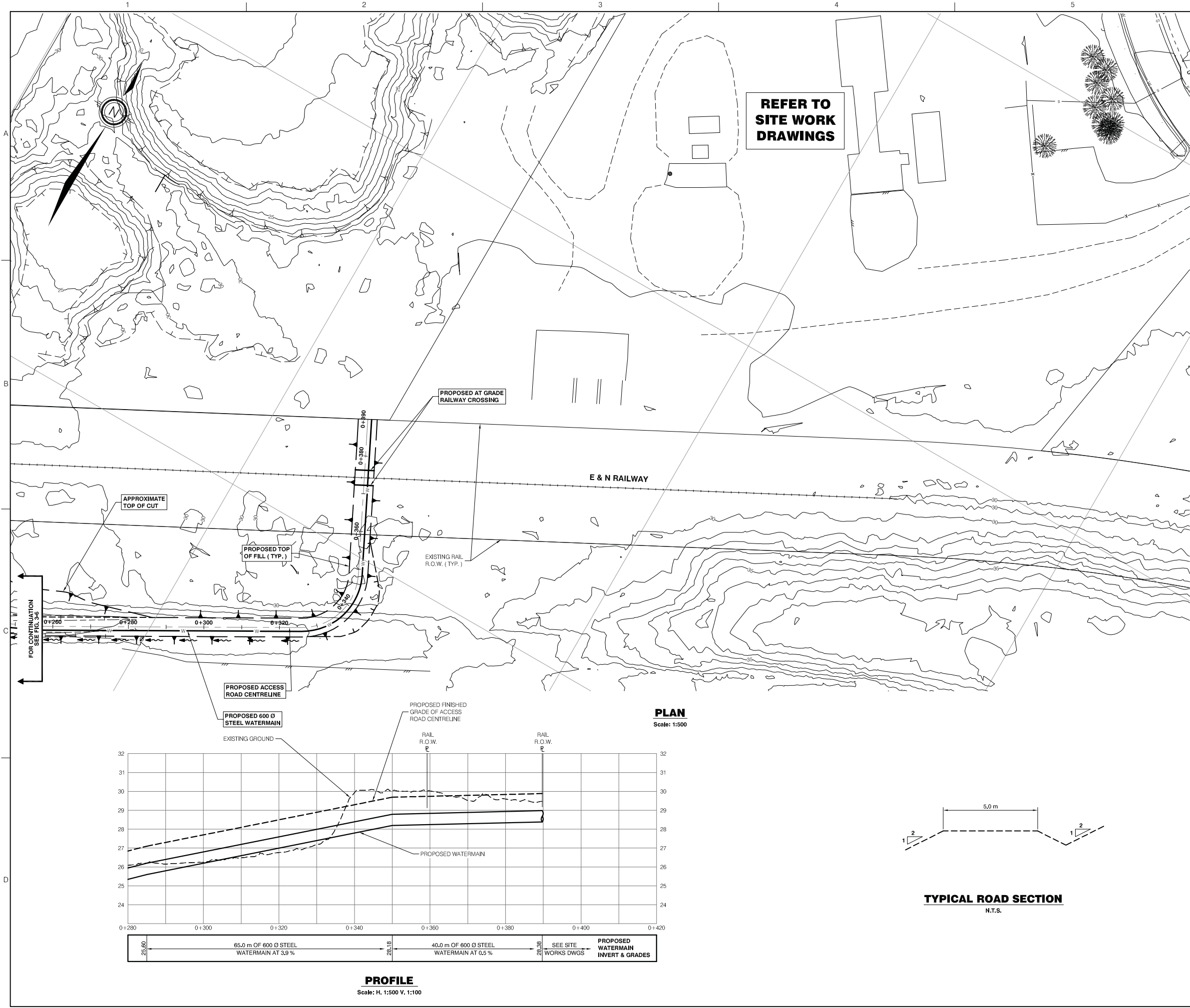
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BAR IS ONE 25mm ON ORIGINAL DRAWING
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DATE	2014/05/09
PROJ	468-010
DWG	C-110
SHEET	3 of 27

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NO.	DATE	REVISION	CHK	MP	DR	MDM	BY	APVD
D	2014/05/09	REVISED WATERMAIN SIZE AND TYPE						
C	2014/04/30	REVISED ACCESS ROAD ALIGNMENT UP TO ROW						
B	2014/02/14	UPDATE WTP LOCATION, REVISED ACCESS ROAD ALIGNMENT						
A	2013/12/23	PRELIMINARY DESIGN						



CH2MHILL

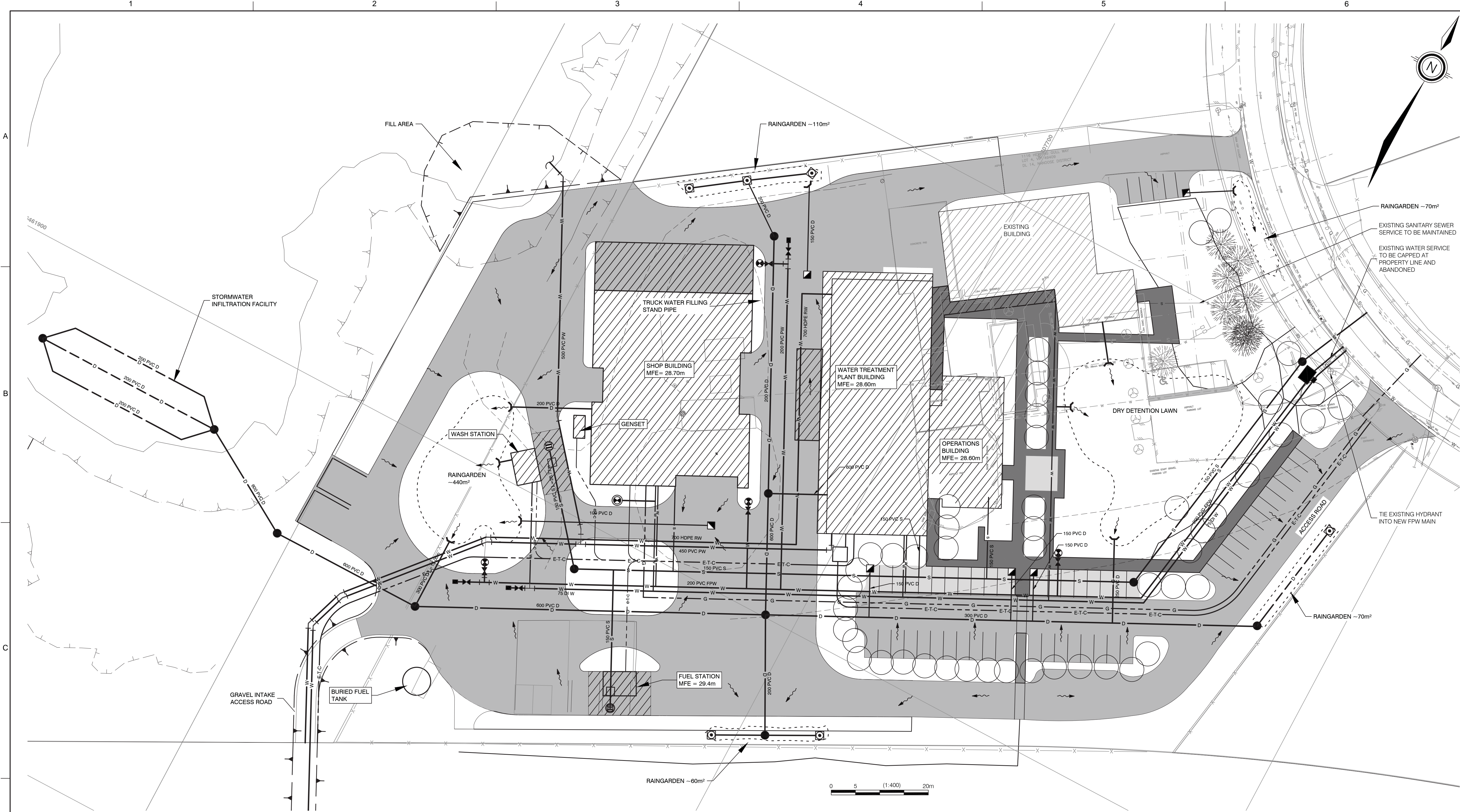
CIVIL
ACCESS ROAD AND UTILITIES PLAN AND PROFILE SHEET 2

1" = 1'

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DATE	2014/05/09
PROJ	468-010
DWG	C-111
SHEET	4 of 27

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A	2014/05/08	ISSUED FOR PRE-DESIGN REVIEW			EM

2014/05/08
 A
 ISSUED FOR PRE-DESIGN REVIEW
 REVISION
 CHK
 AF
 APVD
 EM

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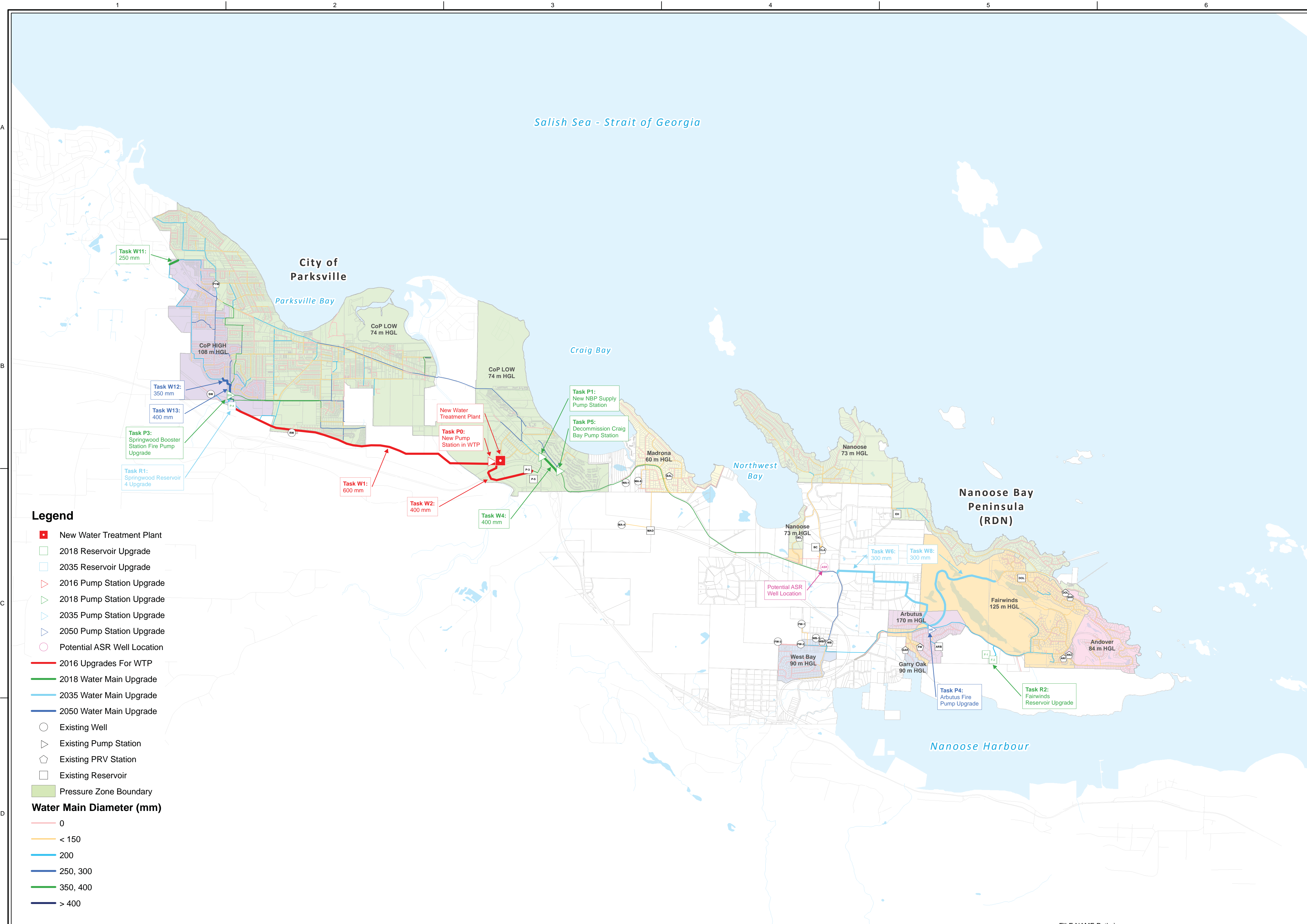
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CH2MHILL CIVIL
englishman river
WATER SERVICE
 ENGLISHMAN RIVER
 WATER SERVICE INTAKE,
 TREATMENT PLANT AND SUPPLY MAINS

1:400
 VERIFY SCALE
 BAR IS ONE 25mm ON ORIGINAL DRAWING
 DATE 2014/05/08
 PROJ 476148
 DWG C-115
 SHEET 5 of 27

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED						
UTILITIES				STORM				STRUCTURES					
--- E-T-C ---	--- E-T-C ---	--- D ---	--- D ---	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
--- G ---	--- G ---	--- d ---	--- d ---	▨	▨	---	---	---	---	---	---	---	---
⊠	■	⊠	⊠	---	---	---	---	---	---	---	---	---	---
HYDROLOGY				VEGETATION				SURFACE TREATMENTS					
~	~	⊙	⊙	▨	▨	---	---	---	---	---	---	---	---
~	~	○	○	▨	▨	---	---	---	---	---	---	---	---
~	~	○	○	▨	▨	---	---	---	---	---	---	---	---
WATER				SANITARY									
---	---	⊠	⊠	---	---	---	---	---	---	---	---	---	---
---	---	⊠	⊠	---	---	---	---	---	---	---	---	---	---
---	---	⊠	⊠	---	---	---	---	---	---	---	---	---	---
---	---	⊠	⊠	---	---	---	---	---	---	---	---	---	---



- Legend**
- New Water Treatment Plant
 - 2018 Reservoir Upgrade
 - 2035 Reservoir Upgrade
 - △ 2016 Pump Station Upgrade
 - △ 2018 Pump Station Upgrade
 - △ 2035 Pump Station Upgrade
 - △ 2050 Pump Station Upgrade
 - Potential ASR Well Location
 - 2016 Upgrades For WTP
 - 2018 Water Main Upgrade
 - 2035 Water Main Upgrade
 - 2050 Water Main Upgrade
 - Existing Well
 - △ Existing Pump Station
 - ◇ Existing PRV Station
 - Existing Reservoir
 - Pressure Zone Boundary
- Water Main Diameter (mm)**
- 0
 - < 150
 - 200
 - 250, 300
 - 350, 400
 - > 400

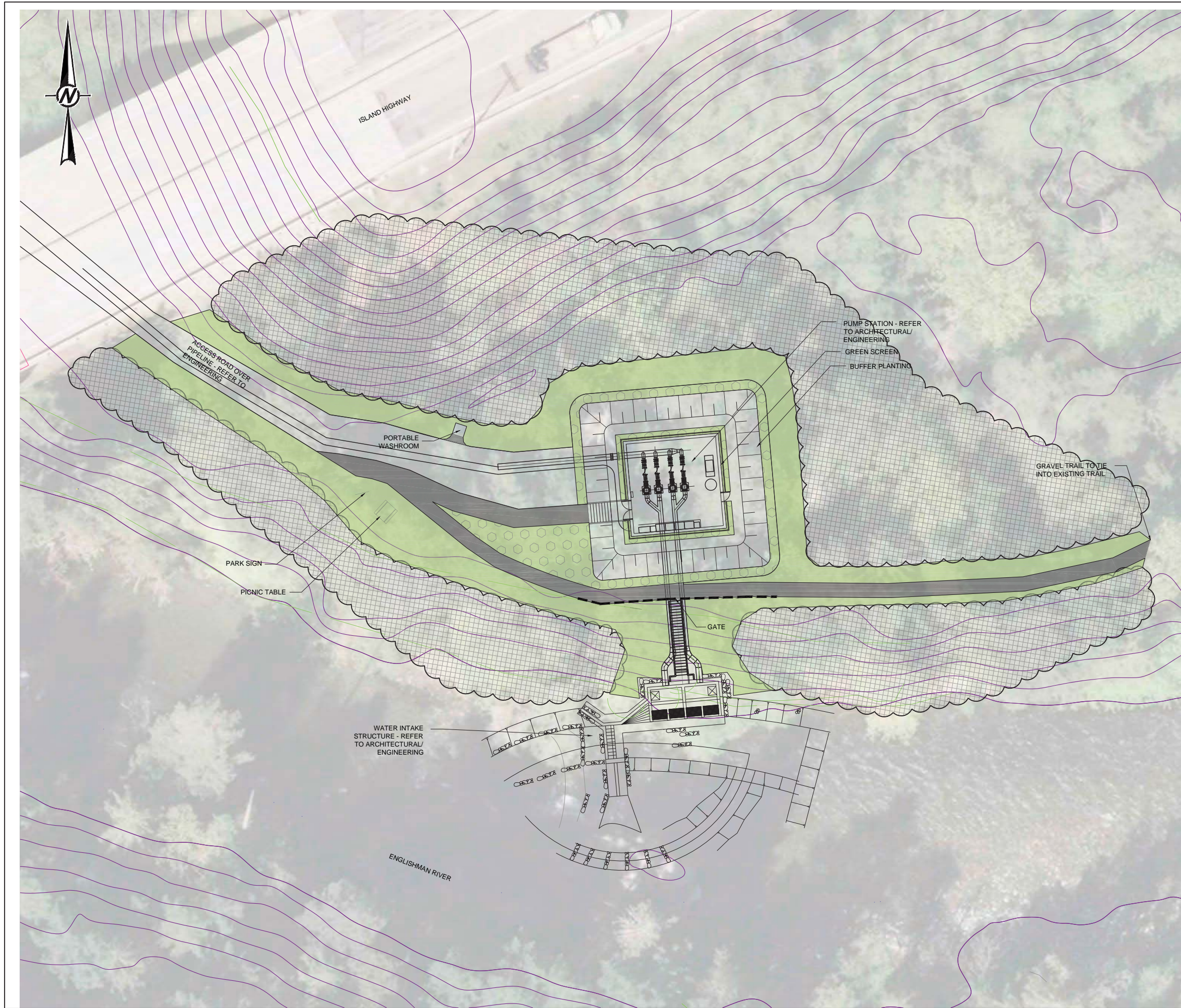
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PRE-DESIGN
REPORT

NO.	DATE	REVISION	CHK	DR	APVD
B	06/02/2014	ISSUED FOR FINAL PRE-DESIGN REPORT	RS	EM	E.MORRIS
A	05/12/2014	ISSUED FOR PRE-DESIGN REVIEW	RS	EM	E.MORRIS

englishman river
WATER SERVICE
INTAKE, TREATMENT PLANT
AND SUPPLY MAINS

KERR WOOD LEIDAL consulting engineers	
CH2MHILL	
DISTRIBUTION MAIN UPGRADES	
1:30,000	
VERIFY SCALE	
BAR IS ONE 25mm ON ORIGINAL DRAWING	
DATE	2014/06/02
PROJ	476148
DWG	C-130
SHEET	6 of 27

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LEGEND

- 1m CONTOUR LINE
- TIMBER RAILING WITH SIGN
- CRUSHED GRAVEL PAVING
- NATIVE SEED MIX AREA
- NATIVE SHRUB AND PERENNIAL PLANTING AREA
- EXISTING TREES TO BE PROTECTED

NOTES

REFER TO CIVIL ENGINEERING DRAWINGS FOR ACCESS ROAD MATERIALS, PAVING AND ALL GRADING.

REFERENCES

ALL BASE FACILITY LINEWORK FROM DIALOG CONSULTING LTD., DRAWING ESRW PLAN STUDY, DATED APRIL 14, 2014.

BASE AERIAL IMAGERY, CONTOURS AND LEGAL BOUNDARIES PROVIDED BY KERR WOOD LEIDAL.

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A	05/12/2014	ISSUED FOR PRE-DESIGN REVIEW				SP	JZ	

englishman river WATER SERVICE
 ENGLISHMAN RIVER
 WATER SERVICE INTAKE,
 TREATMENT PLANT AND SUPPLY MAINS

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CH2MHILL
 LANDSCAPE ARCHITECTURE

RAW WATER INTAKE & PUMP STATION SITE LAYOUT

1:200 METRIC
 VERIFY SCALE
 BAR IS ONE 25mm ON ORIGINAL DRAWING

DATE	2014/05/05
PROJ	13-1477-0018
DWG	L-001
SHEET	07 of 27



LEGEND

- LEGAL BOUNDARY
- 1m CONTOUR LINE
- PROPOSED FENCE LINE
- CONCRETE PAVING
- CRUSHED GRAVEL PAVING
- PERVIOUS PAVING
- TURF SEEDING AREA
- NATIVE SHRUB AND PERENNIAL PLANTING AREA
- RAIN GARDEN AREA
- NEW TREE
- EXISTING TREES TO BE PROTECTED

NOTES

REFER TO CIVIL ENGINEERING DRAWINGS FOR PARKING LOT MATERIALS, PAVING AND ALL GRADING.

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TREATMENT PLANT AND SUPPLY MAINS

ENGLISHMAN RIVER WATER SERVICE INTAKE

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CH2MHILL

LANDSCAPE ARCHITECTURE

WATER TREATMENT PLANT SITE LAYOUT

1:500 METRIC

VERIFY SCALE

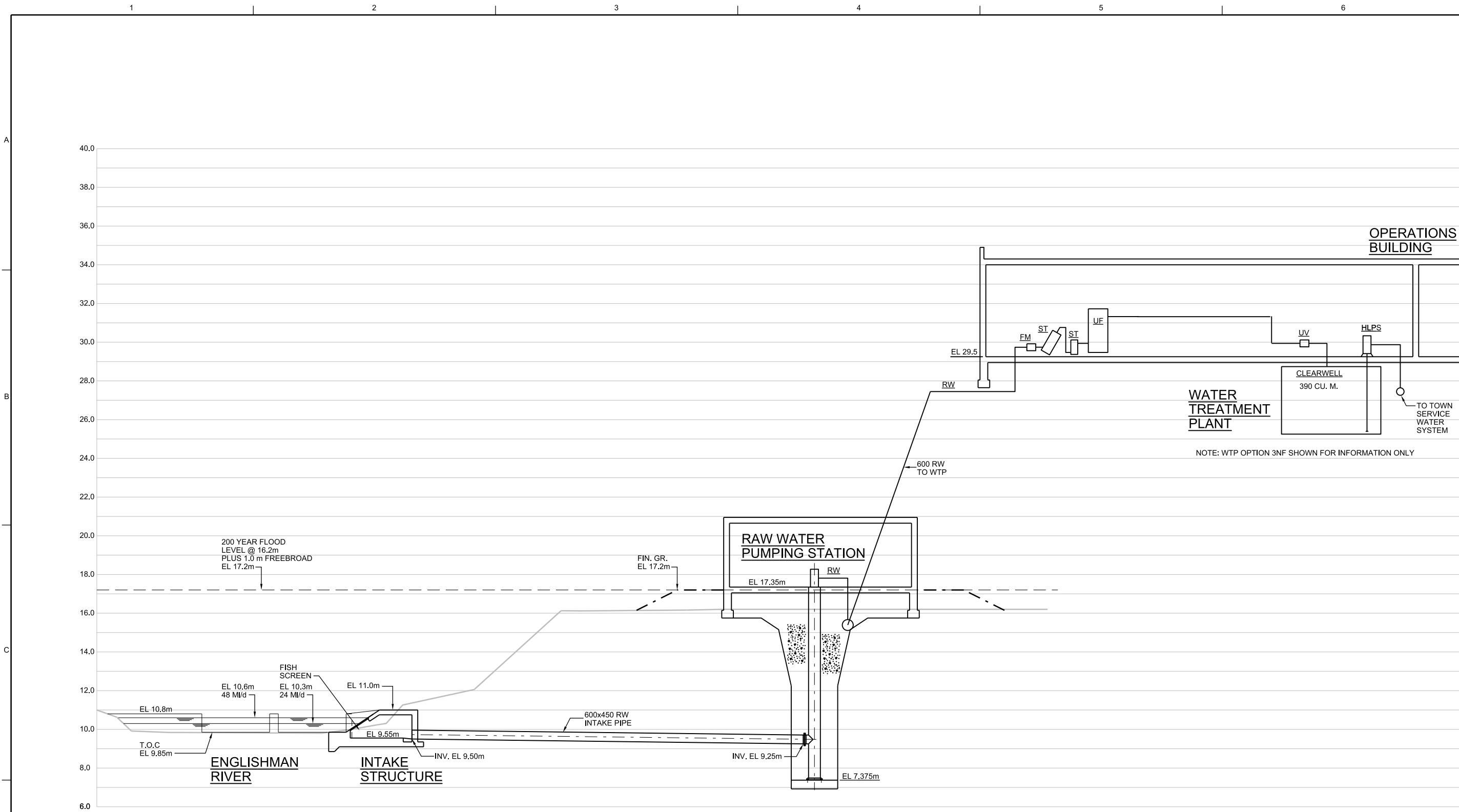
BAR IS ONE 25mm ON ORIGINAL DRAWING

DATE 2014/05/05

PROJ 13-1477-0018

DWG L-002

SHEET 08 of 27



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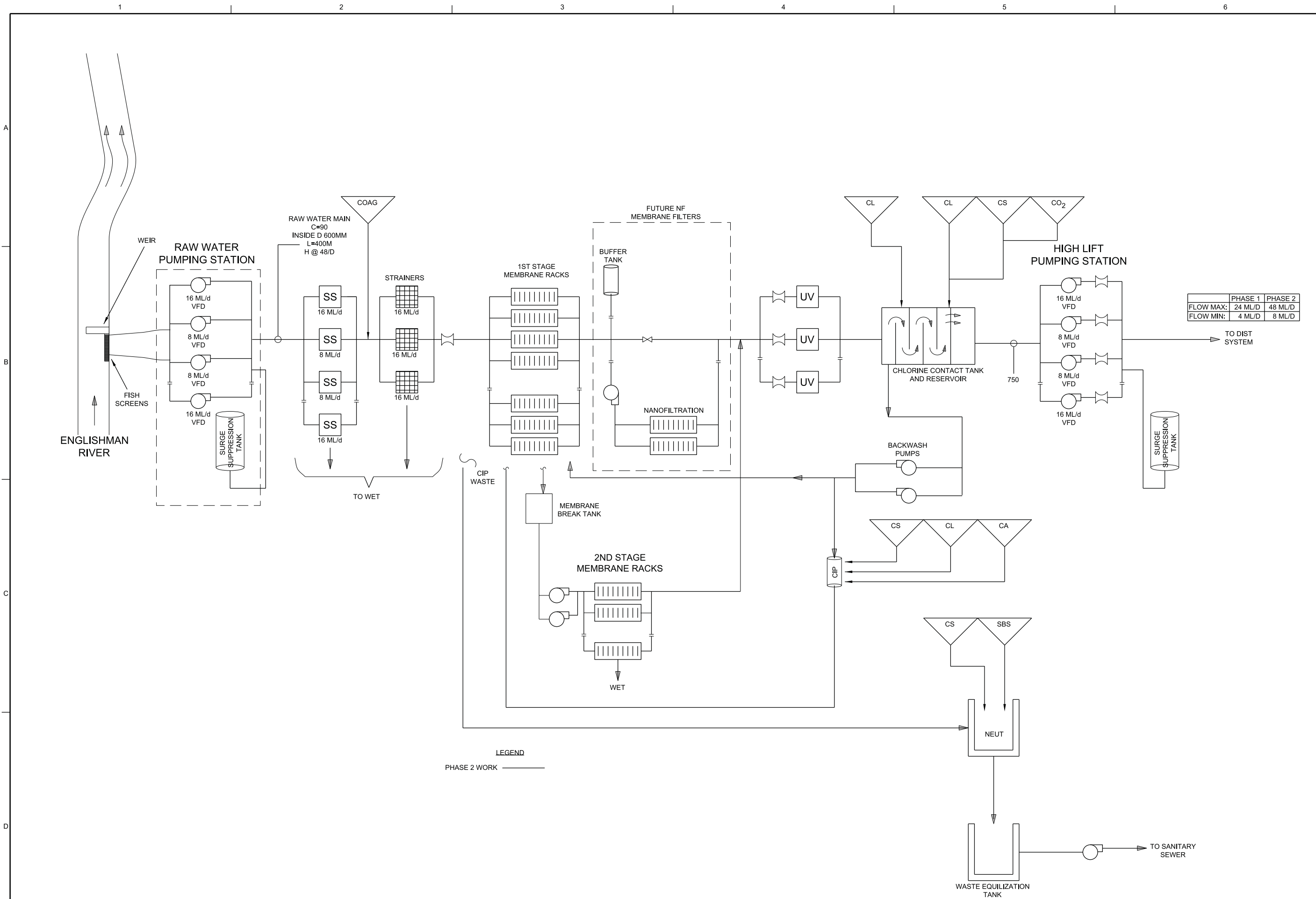
NO.	DATE	ISSUED FOR PRE-DESIGN REVIEW	BY	APVD
A	05/12/14			
NO.	DATE	REVISION	BY	APVD

CH2MHILL
 PROCESS
 WATER TREATMENT PLANT
 SCHEMATIC PROFILE

englishman river WATER SERVICE
 ENGLISHMAN RIVER
 WATER SERVICE INTAKE,
 TREATMENT PLANT AND SUPPLY MAINS

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PROJ	476148
DWG	P-00
SHEET	9 of 27



PROCESS FLOW DIAGRAM

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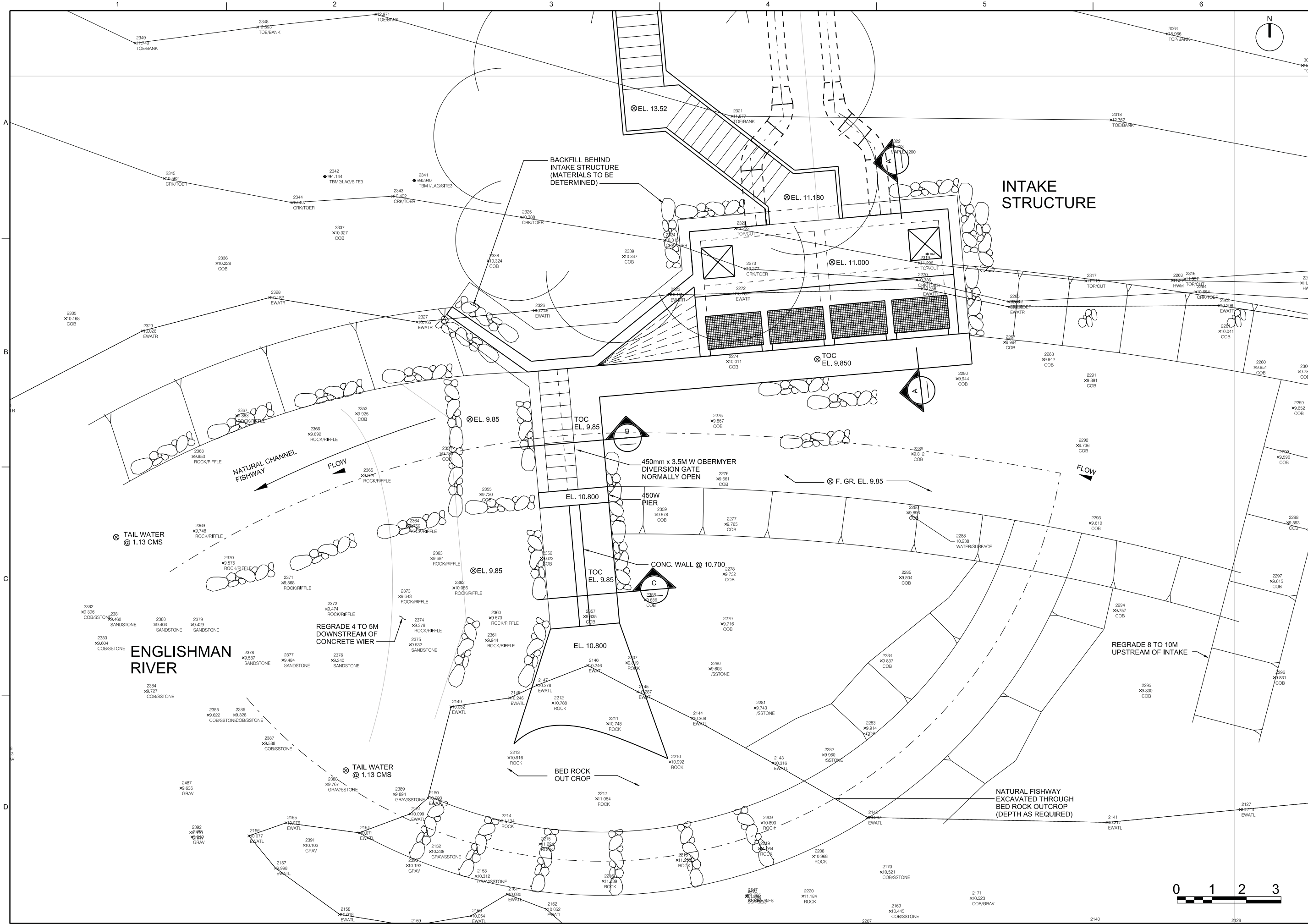
NO.	DATE	DR	CHK	APVD
A	05/12/14	J. GARCIA	N. LAMONT	B. ENGLESON
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BY	BY	BY	BY	BY
APVD	APVD	APVD	APVD	APVD

englishman river WATER SERVICE
 ENGLISHMAN RIVER WATER SERVICE INTAKE
 TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL
 PROCESS WATER TREATMENT PLANT PROCESS FLOW DIAGRAM

NOT TO SCALE
 VERIFY SCALE
 BAR IS ONE 25mm ON ORIGINAL DRAWING
 25mm

DATE: 09/19/13
 PROJ: 476148
 DWG: P-002
 SHEET: 10 of 27



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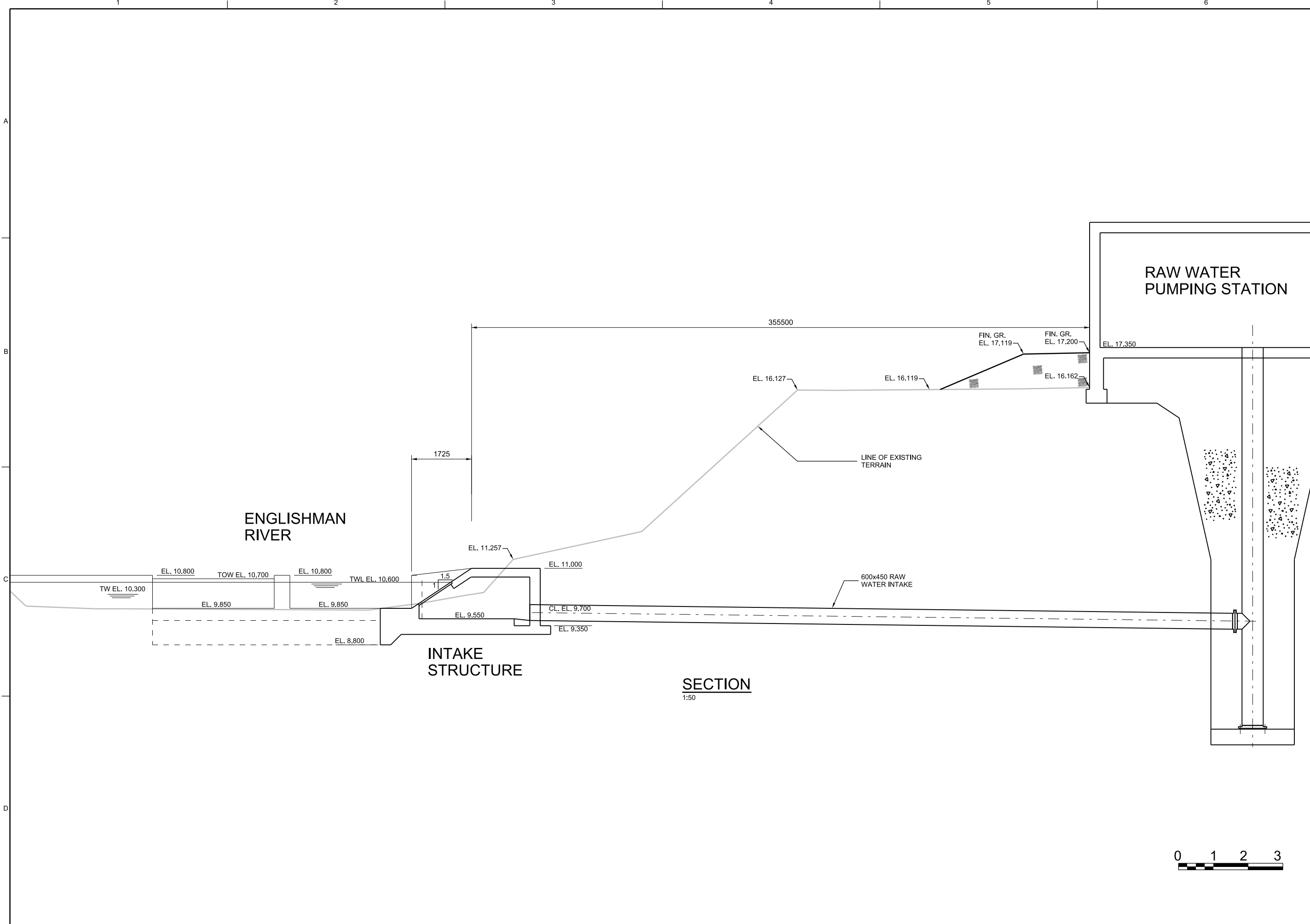
NO.	DATE	REVISION	CHK	APVD
A	05/12/14	ISSUED FOR PRE-DESIGN REVIEW	J. KANYLUCH MANS	B. COOPER

CH2MHILL
 MECHANICAL
RAW WATER INTAKE AND WEIR SITE PLAN

englishman river WATER SERVICE
 ENGLISHMAN RIVER WATER SERVICE INTAKE, TREATMENT PLANT AND SUPPLY MAINS

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DWG	M-100
SHEET	11 of 27



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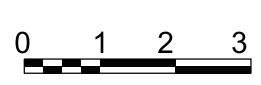
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A	05/12/14	ISSUED FOR PRE-DESIGN REVIEW	J KANYLCHIK	B COOPER	B ENGLESON

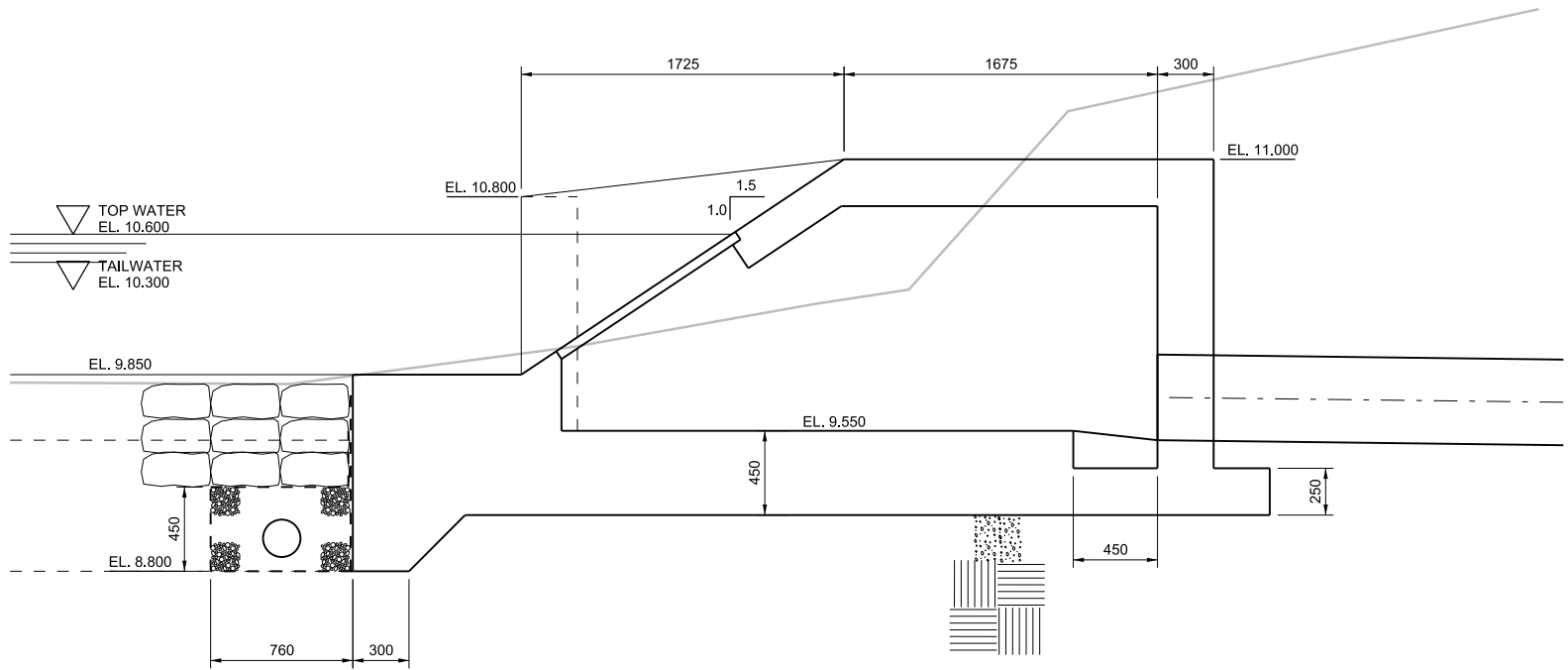
CH2MHILL®
 MECHANICAL
RAW WATER INTAKE AND WEIR SECTIONS

englishman river WATER SERVICE
 ENGLISHMAN RIVER WATER SERVICE INTAKE, TREATMENT PLANT AND SUPPLY MAINS

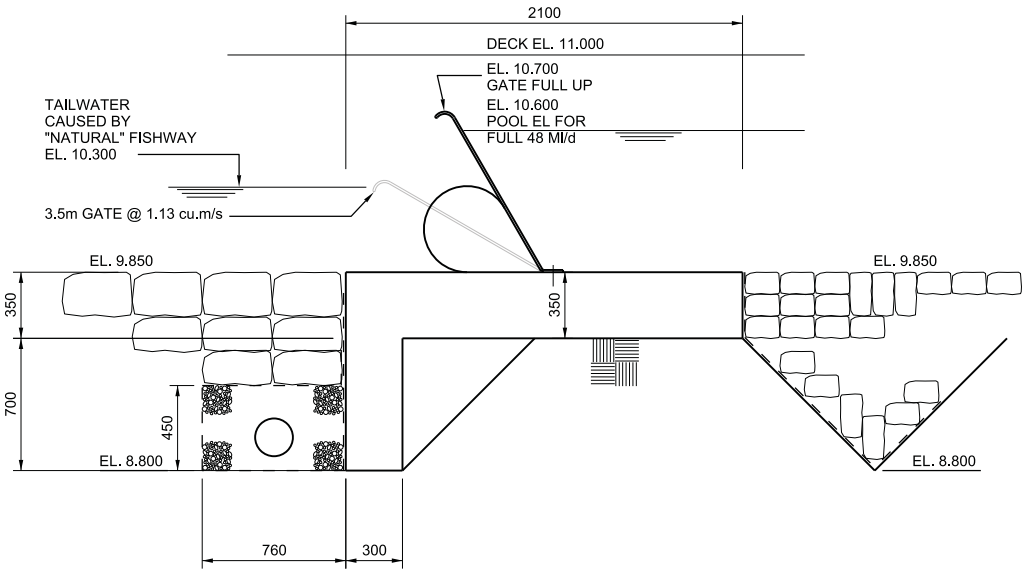
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DWG	M-101
SHEET	12 of 27

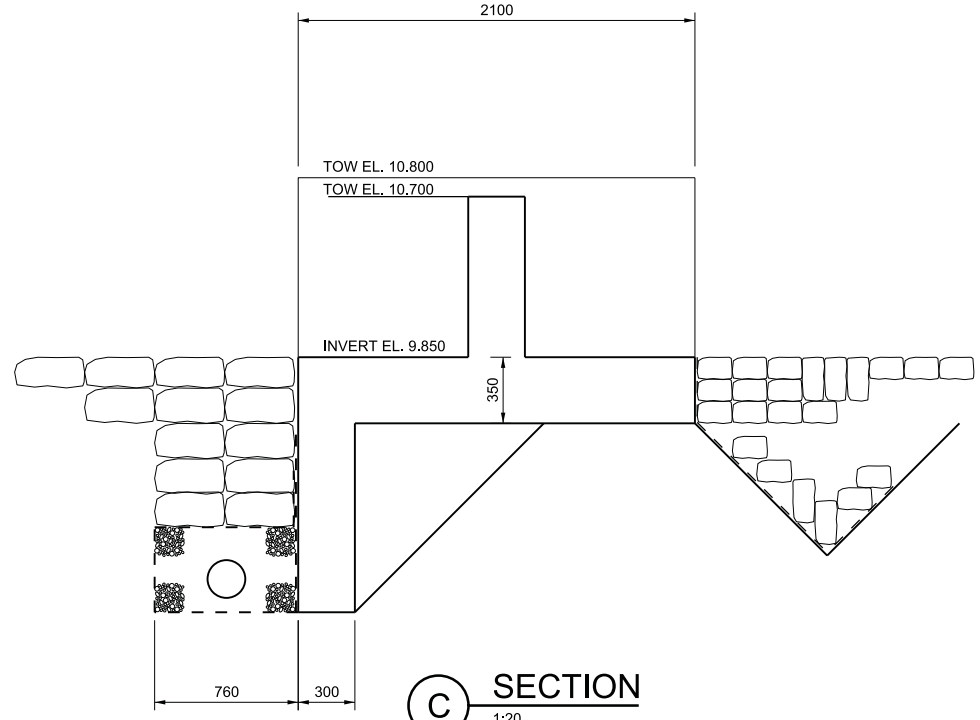




(A) SECTION
1:20



(B) SECTION
1:20



(C) SECTION
1:20

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NO.	DATE	REVISION	CHK	APVD
A	05/12/14	ISSUED FOR PRE-DESIGN REVIEW	JG/KM	BE
DSGN	J KANYUCHIK MAINS	DR	B COOPER	APVD
			J GARCIA	APVD
			B ENGLESON	APVD

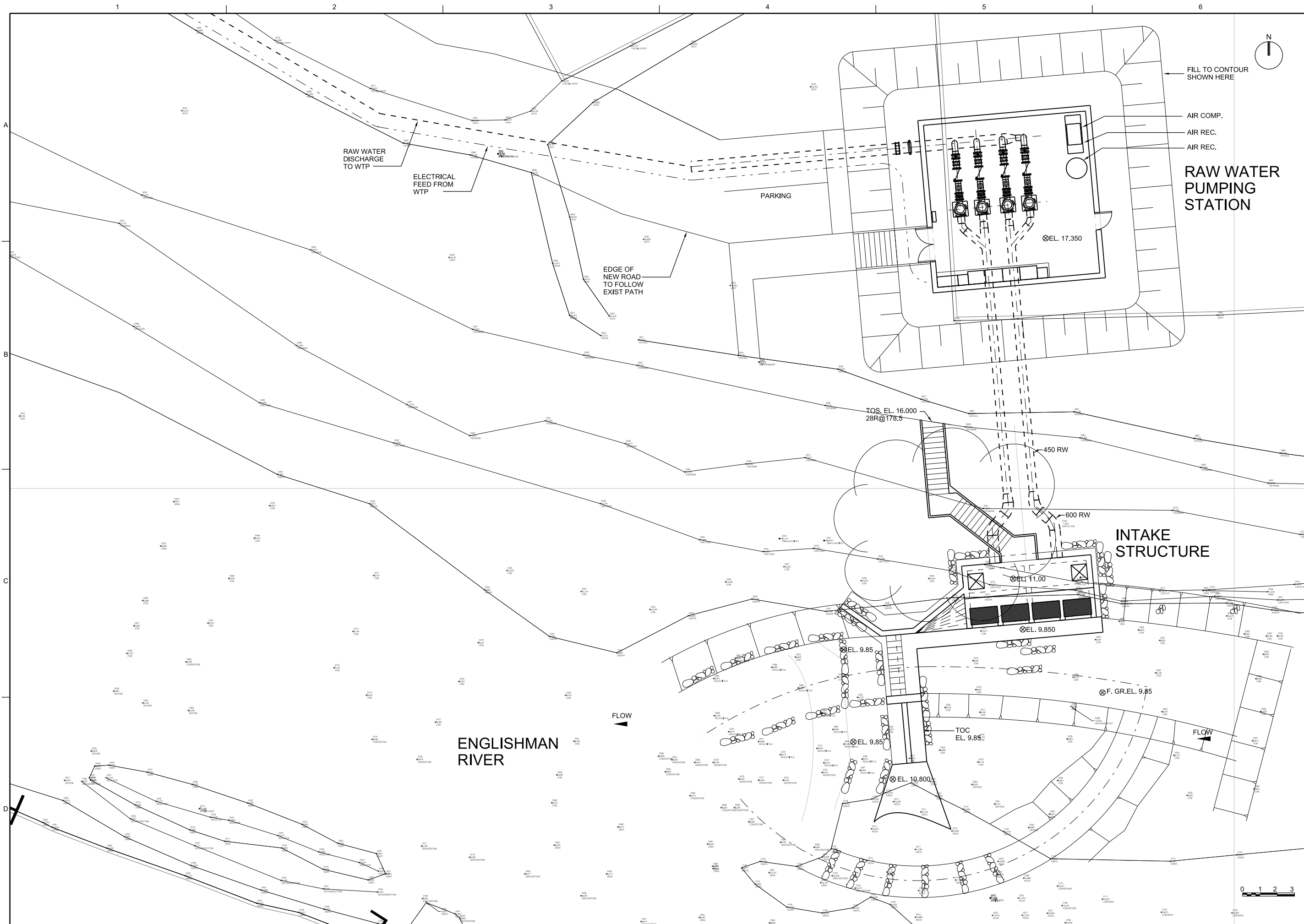


ENGLISHMAN RIVER WATER SERVICE
ENGLISHMAN RIVER WATER SERVICE INTAKE, TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL
MECHANICAL
RAW WATER INTAKE AND WEIR DETAILS

DATE	05/12/14
PROJ	476148
DWG	M-102
SHEET	13 of 27

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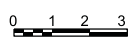
NO.	DATE	REVISION	CHK	APVD
A	05/12/14	ISSUED FOR PRE-DESIGN REVIEW	J. KANYLCHIK	B. ENGLESON

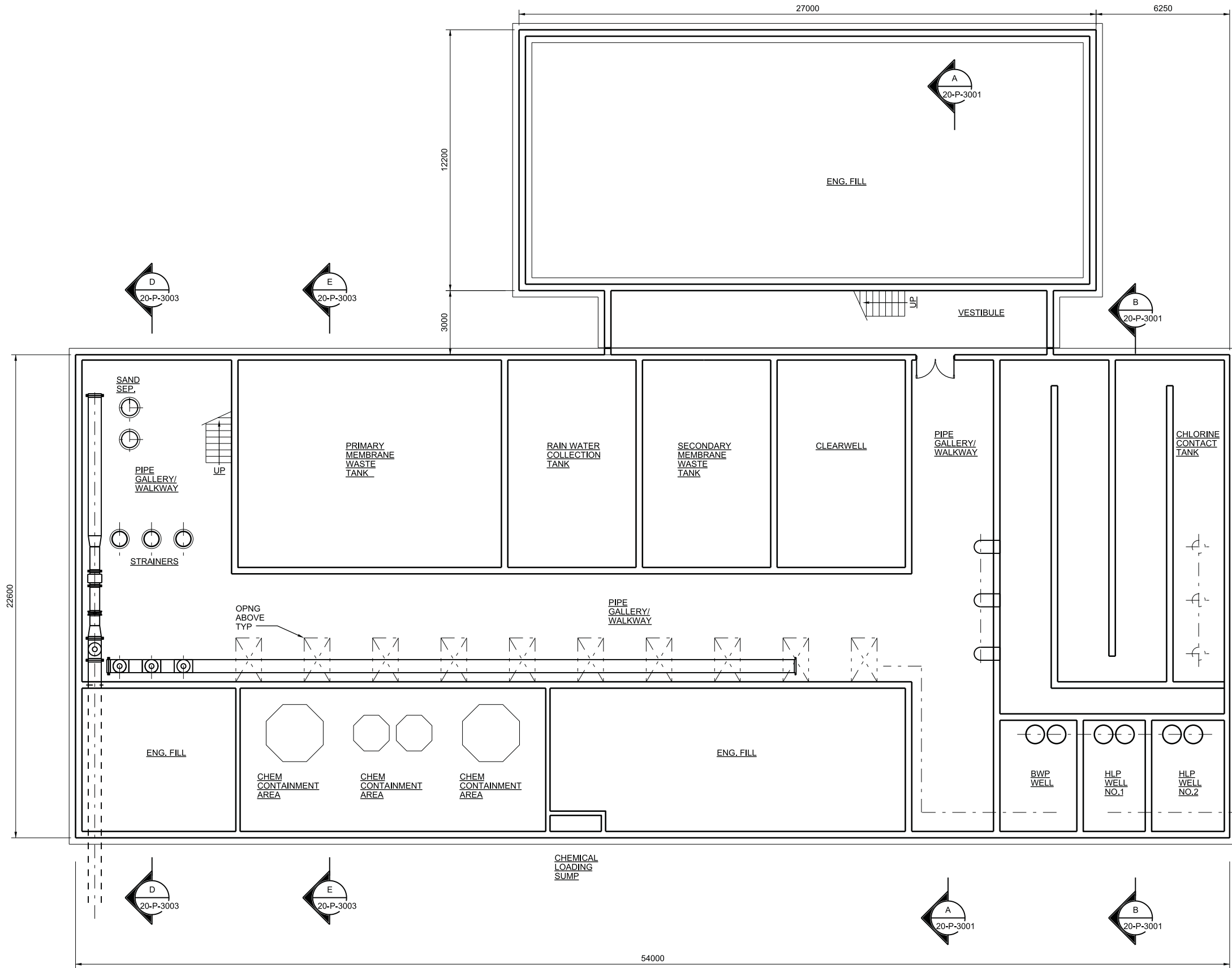
CH2MHILL
 MECHANICAL
 RAW WATER PUMP STATION
 SITE PLAN

englishman river WATER SERVICE
 ENGLISHMAN RIVER
 WATER SERVICE INTAKE,
 TREATMENT PLANT AND SUPPLY MAINS

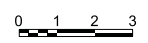
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DATE	05/12/14
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DWG	M-110
SHEET	14 of 27





FOUNDATION PLAN
1:100



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			DR	APVD
			J. GARCIA	B. ENGLESON

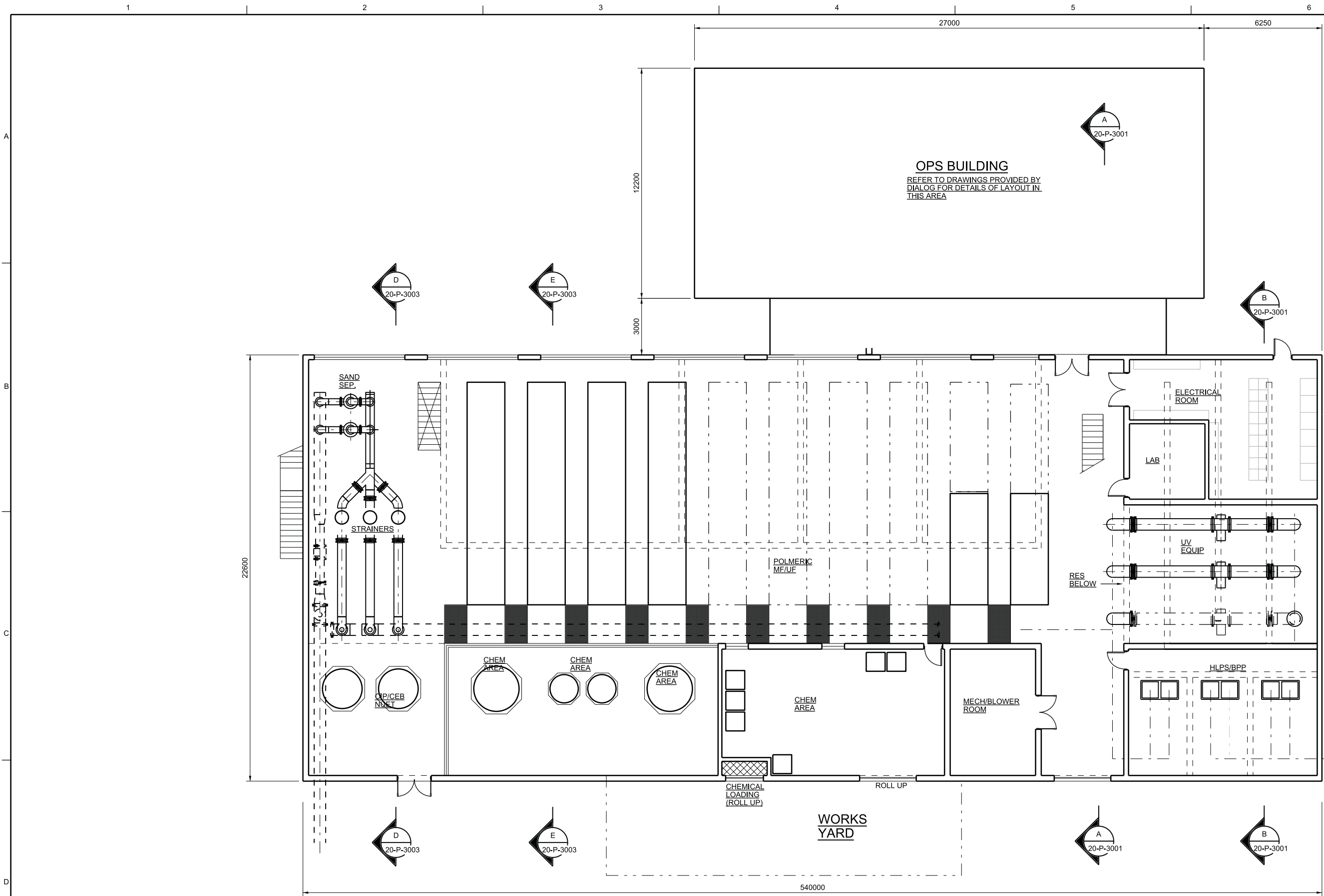
CH2MHILL
MECHANICAL
WATER TREATMENT PLANT
FOUNDATION LEVEL PLAN

englishman river WATER SERVICE
ENGLISHMAN RIVER
WATER SERVICE INTAKE,
TREATMENT PLANT AND SUPPLY MAINS

J. GARCIA MAINS
B. COOPER
DR
CHK
APVD

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PROJ	476148
DWG	M-121
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GROUND LEVEL PLAN
1:100

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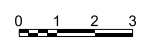
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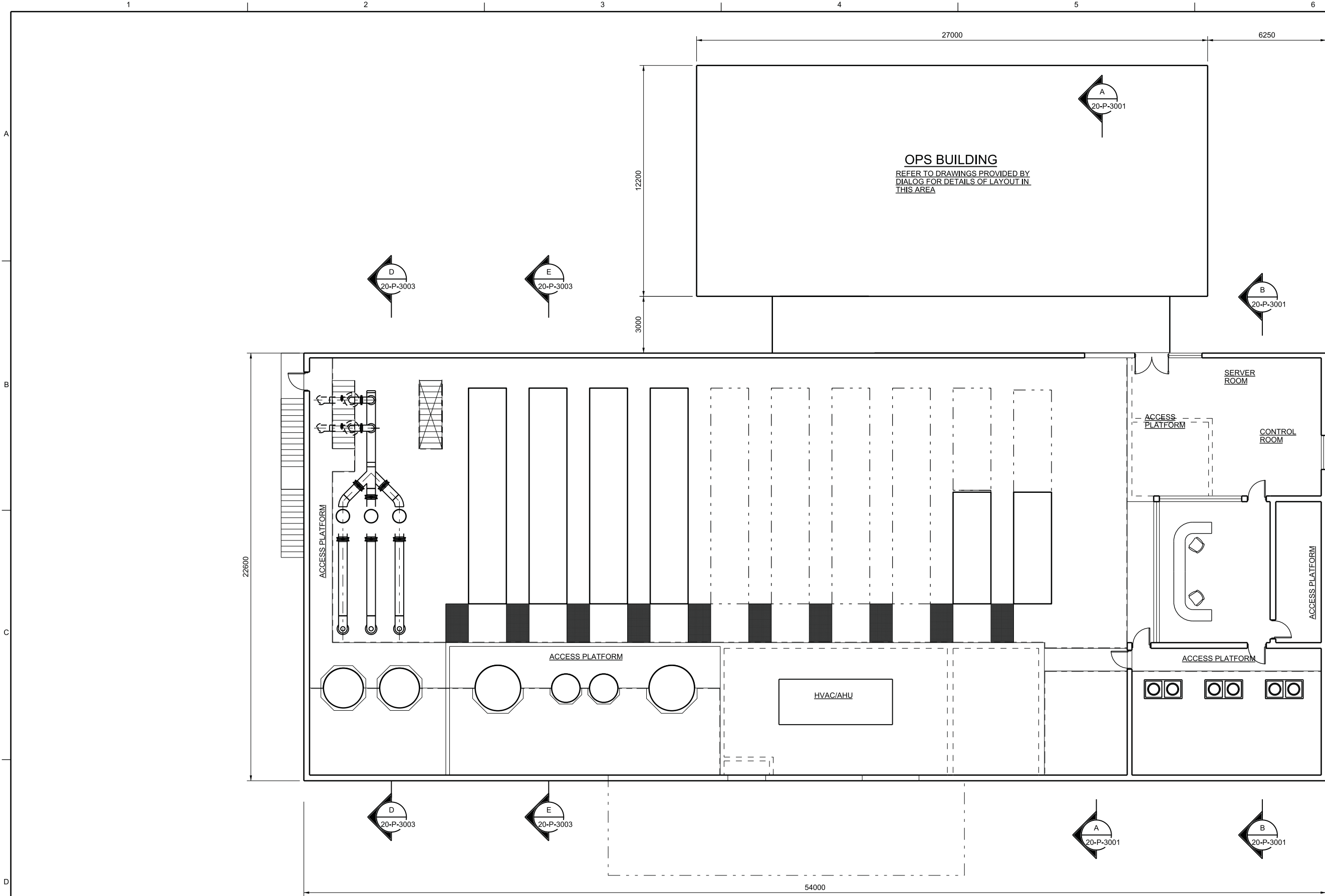
CH2MHILL®
MECHANICAL
WATER TREATMENT PLANT GRADE LEVEL PLAN

englishman river WATER SERVICE
ENGLISHMAN RIVER WATER SERVICE INTAKE.
TREATMENT PLANT AND SUPPLY MAINS

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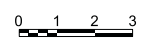
DATE	05/12/14
PROJ	476148
DWG	M-122
SHEET	16 of 27





OPS BUILDING
 REFER TO DRAWINGS PROVIDED BY
 DIALOG FOR DETAILS OF LAYOUT IN
 THIS AREA

GROUND LEVEL PLAN
 1:100



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 TENDER OR CONTRSTRUCTION

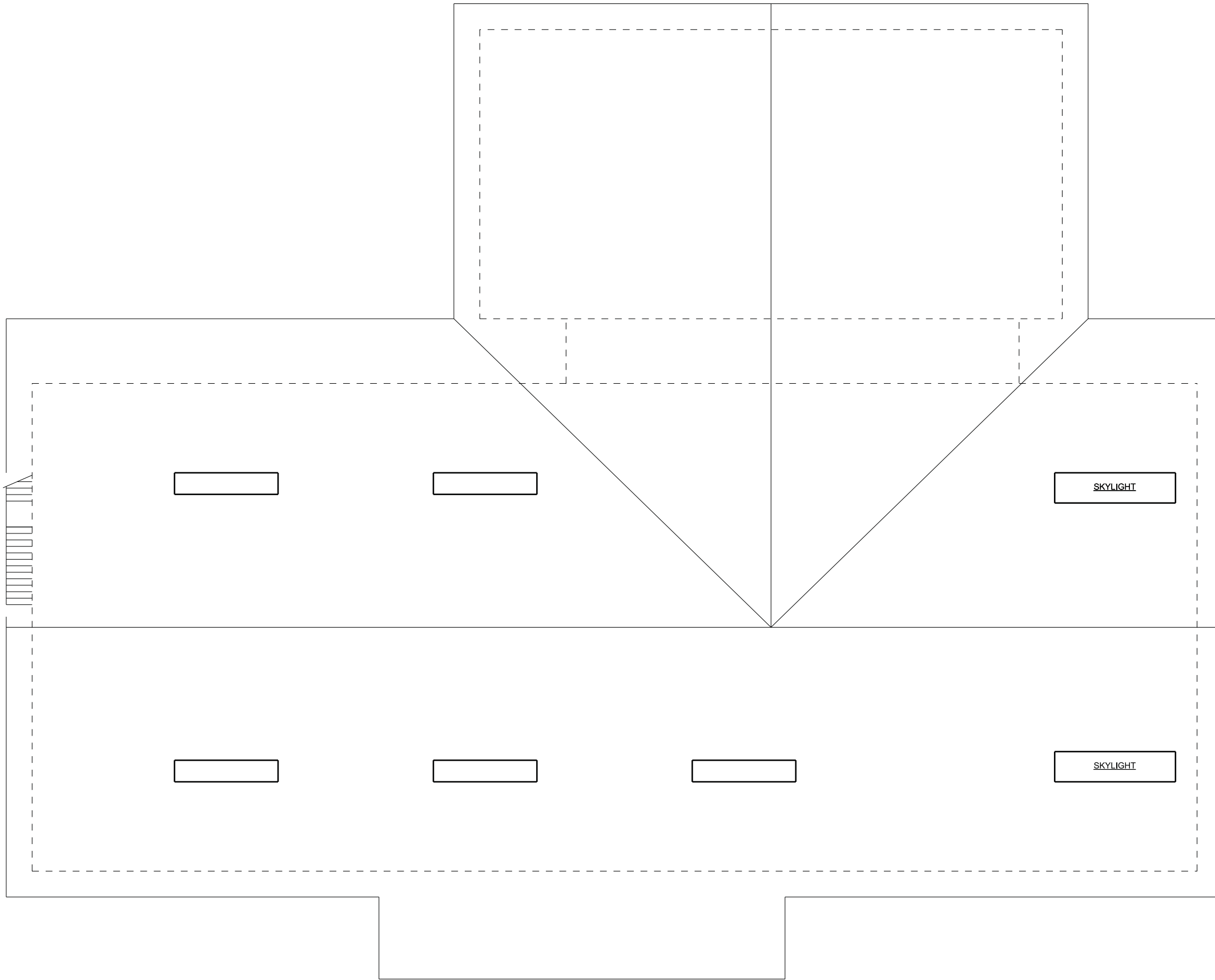
NO.	DATE	REVISION	CHK	APVD
A	05/12/14	ISSUED FOR PRE-DESIGN REVIEW	JG/KM	BE
			BY	APVD
			CHK	APVD
			DR	APVD
			J GARCIA	B ENGLESON



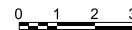
CH2MHILL®
 PROCESS
WATER TREATMENT PLANT SECOND FLOOR PLAN

DATE	05/12/14
PROJ	476148
DWG	M-123
SHEET	17 of 27

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ROOF PLAN
1:100



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A	05/12/14	ISSUED FOR PRE-DESIGN REVIEW	JG/KM	BE
DR			J GARCIA	B ENGLESON
DGN			B COOPER	

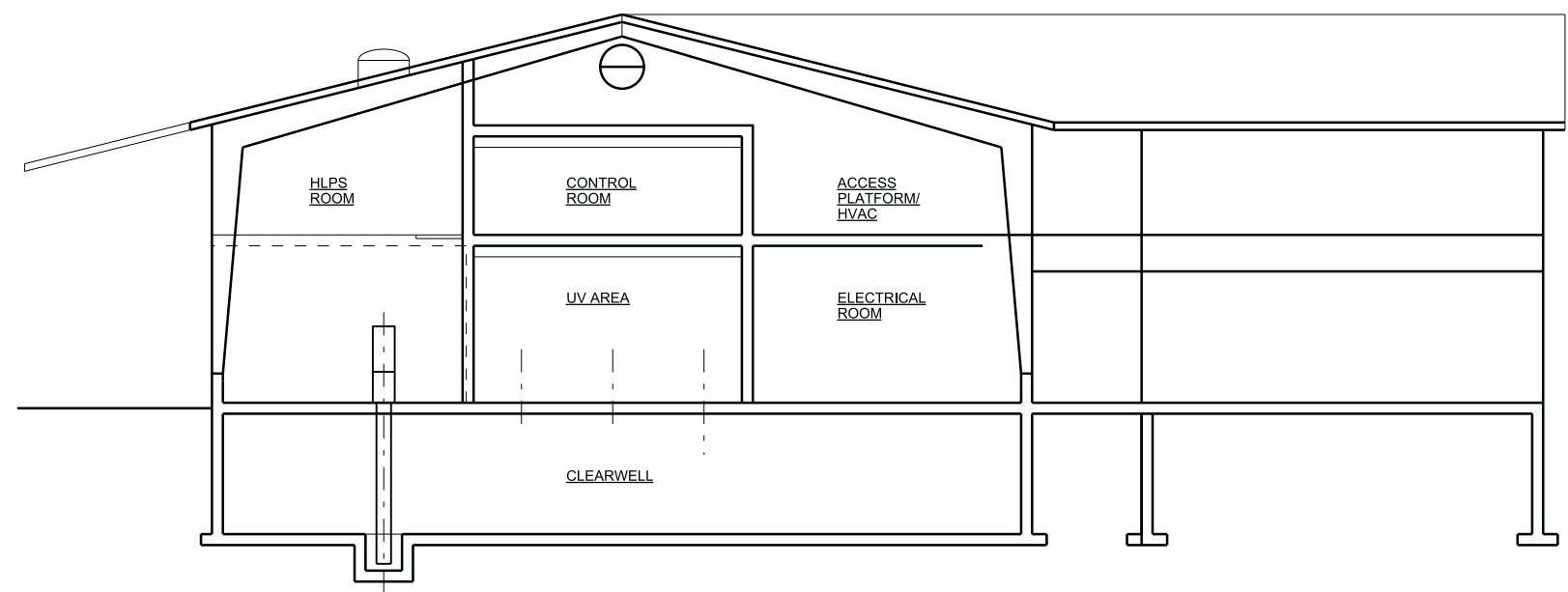
englishman river WATER SERVICE
ENGLISHMAN RIVER WATER SERVICE INTAKE,
TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL®	MECHANICAL
	WATER TREATMENT PLANT ROOF PLAN
1:100	
VERIFY SCALE	
BAR IS ONE 25mm ON ORIGINAL DRAWING	
DATE	05/12/14
PROJ	476148
DWG	M-124
SHEET	18 of 27

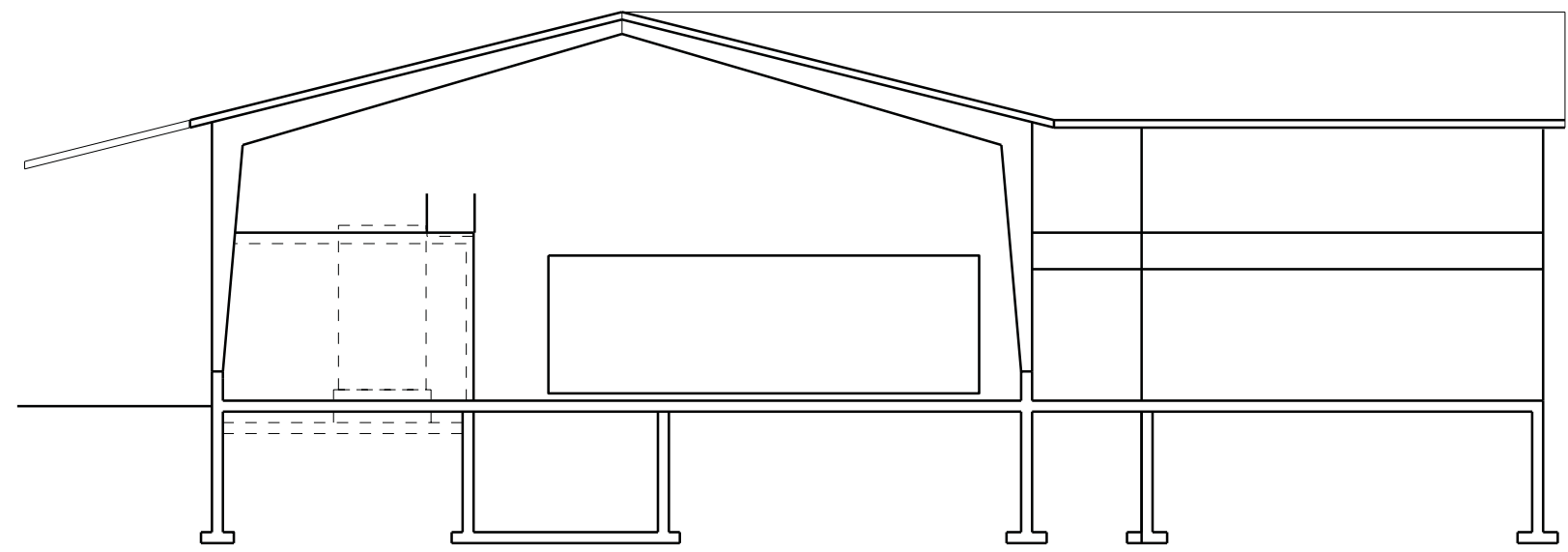
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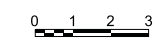
A
B
C
D



SECTION B-B
1:100



SECTION A-A
1:100



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DSGN			J GARCIA	APVD
DR			B COOPER	APVD
			J GARCIA	APVD
			B ENGLESON	APVD

englishman river
WATER SERVICE
ENGLISHMAN RIVER
WATER SERVICE INTAKE,
TREATMENT PLANT AND SUPPLY MAINS

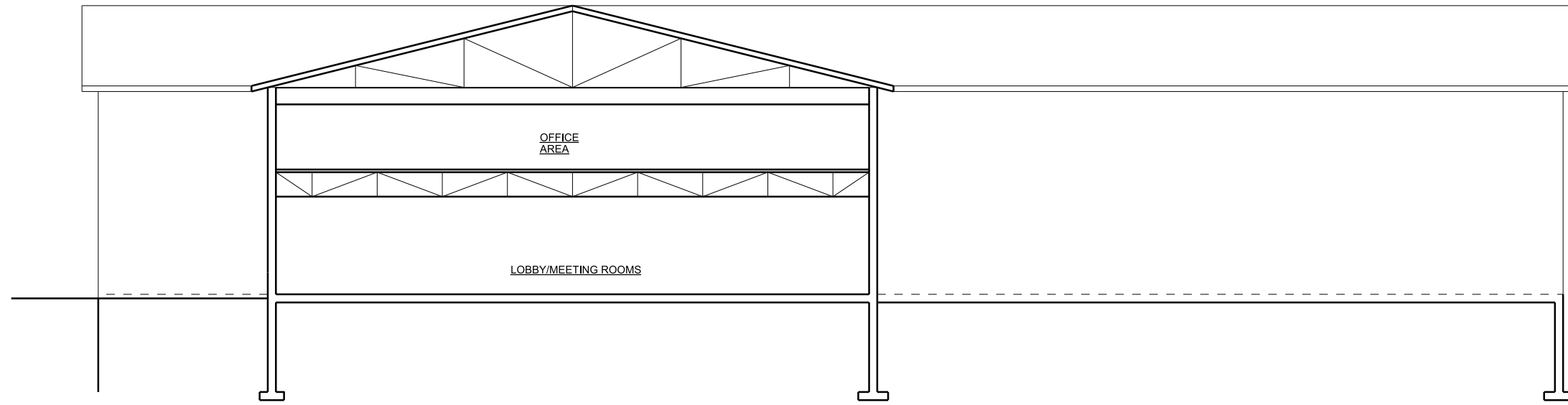
CH2MHILL®
MECHANICAL
WATER TREATMENT PLANT
SECTIONS - SHEET 1

1:100
VERIFY SCALE
BAR IS ONE 25mm ON ORIGINAL DRAWING
0 25mm

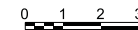
DATE 05/12/14
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DWG M-130
SHEET 19 of 27

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SECTION C-C
1:100



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			BY	APVD

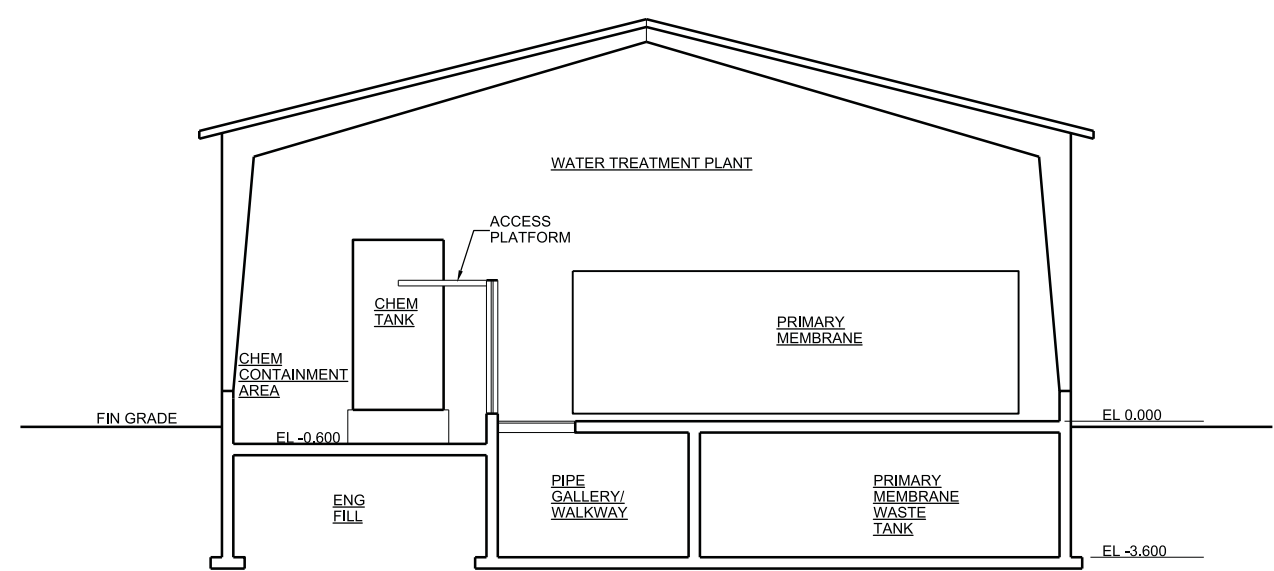
englishman river WATER SERVICE
ENGLISHMAN RIVER WATER SERVICE INTAKE,
TREATMENT PLANT AND SUPPLY MAINS

J. GARCIA MAINS DR B. COOPER J. GARCIA APVD
DGN CHK APVD

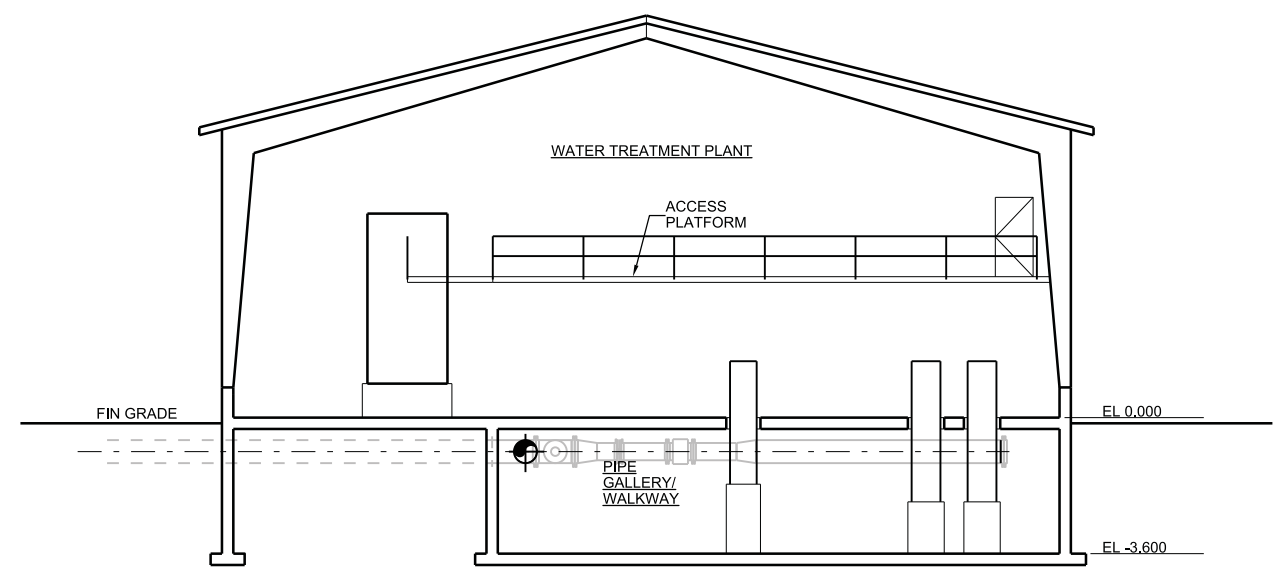
CH2MHILL®	MECHANICAL
WATER TREATMENT PLANT SECTIONS - SHEET 2	
1:100	
VERIFY SCALE	
BAR IS ONE 25mm ON ORIGINAL DRAWING	
DATE	05/12/14
PROJ	476148
DWG	M-131
SHEET	20 of 27

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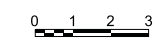
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SECTION E-E
1:100



SECTION D-D
1:100



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DGN			J GARCIA	B ENGLESON
DR			B COOPER	

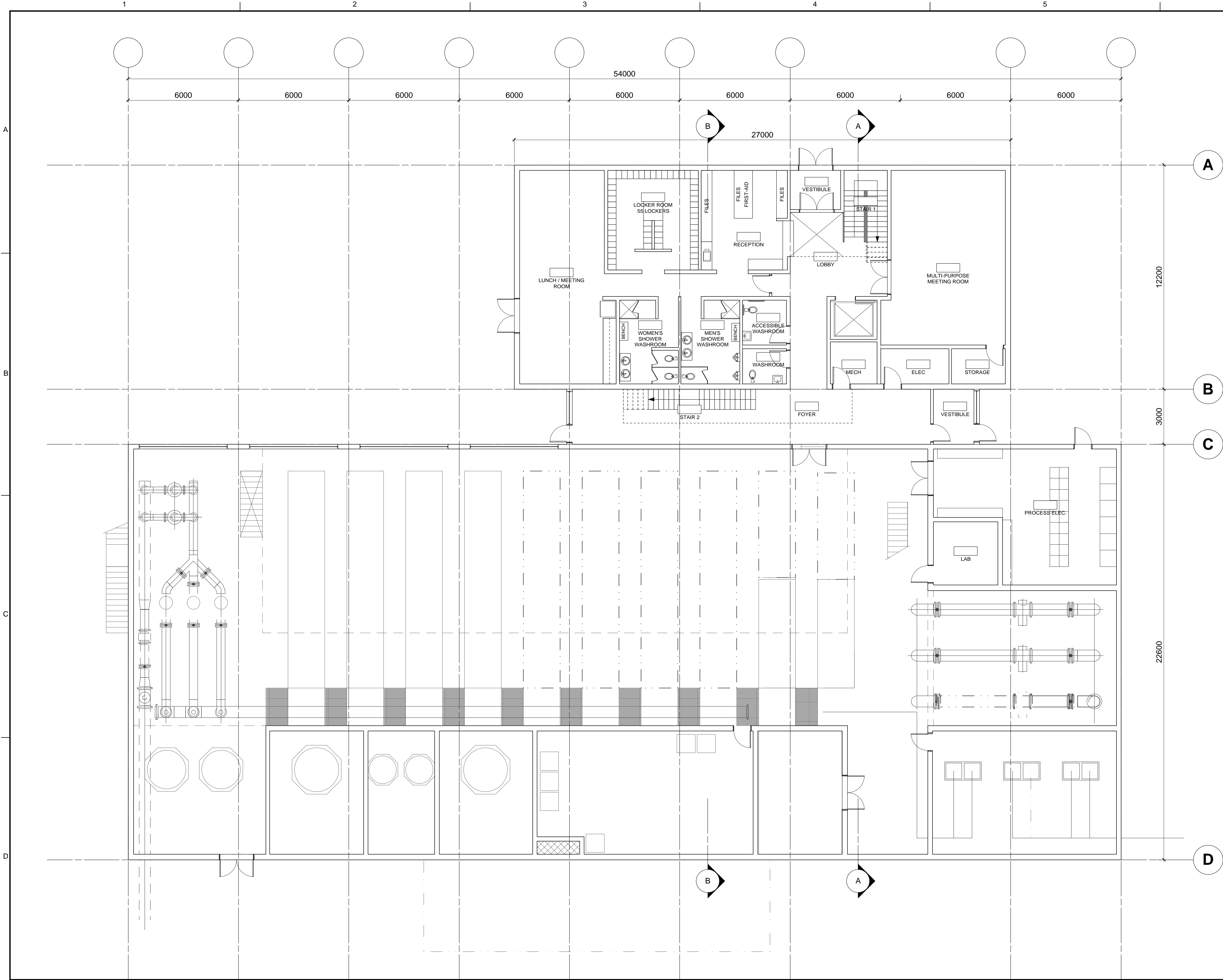
englishman river WATER SERVICE
ENGLISHMAN RIVER WATER SERVICE INTAKE.
TREATMENT PLANT AND SUPPLY MAINS

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MECHANICAL
WATER TREATMENT PLANT SECTIONS - SHEET 3

1:100
VERIFY SCALE
BAR IS ONE 25mm ON ORIGINAL DRAWING

DATE 05/12/14
PROJ 476148
DWG M-132
SHEET 21 of 27

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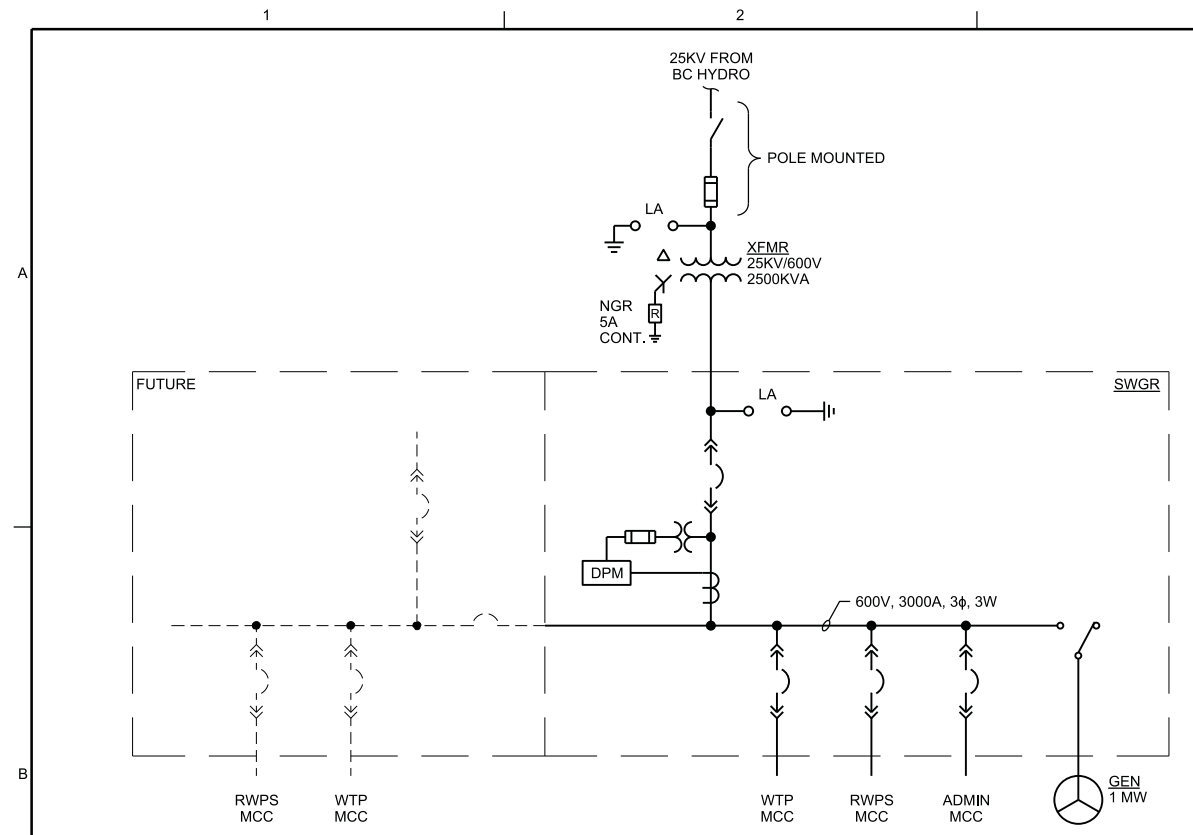
NO.	DATE	DESIGNER	DR	DS	CHK	SL	APVD	BY	APVD?	SEALNAME
A	2014/05/12	ISSUED FOR PRE-DESIGN REVIEW								

ENGLISHMAN RIVER WATER SERVICE
 INTAKE, TREATMENT PLANT AND SUPPLY MAINS

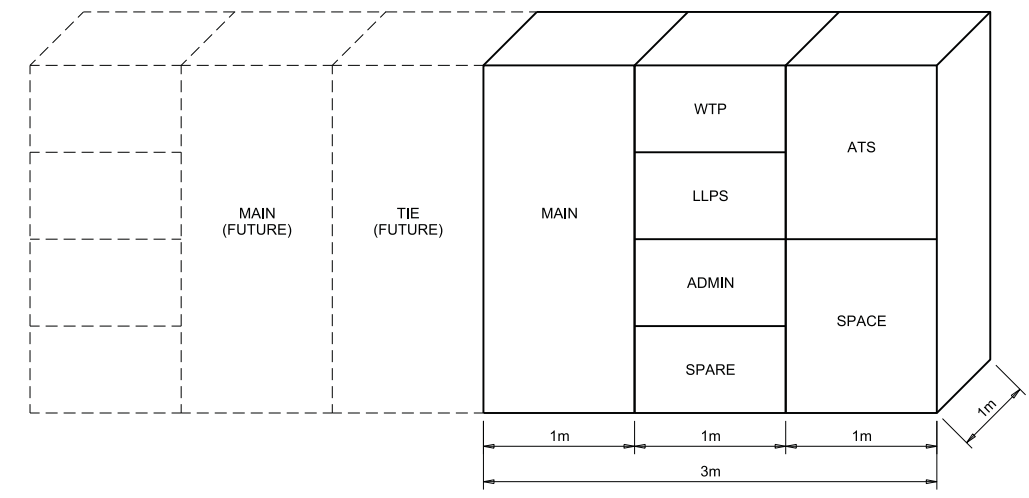
CH2MHILL DIALOG
 ARCHITECTURAL
 WATER TREATMENT PLANT GRADE LEVEL PLAN

SCALE	1:100
VERIFY SCALE	BAR IS ONE 25mm ON ORIGINAL DRAWING
DATE	2015/05/12
PROJ	476148
DWG	A-120
SHEET	22 of 27

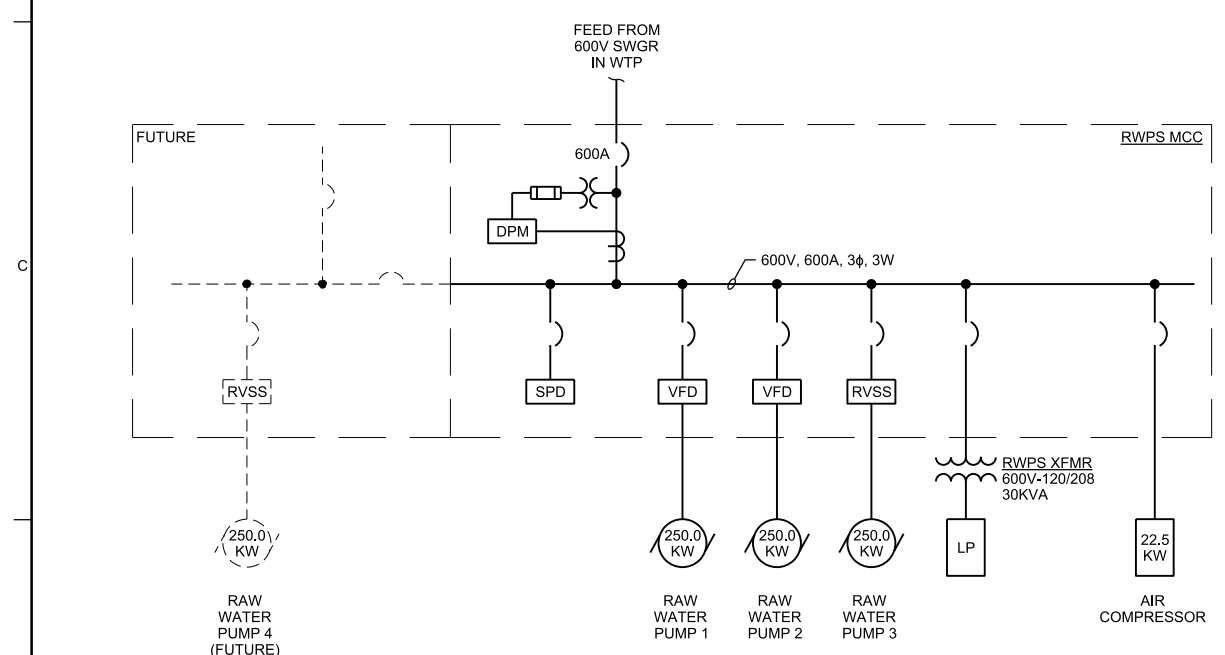
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600V SWGR SINGLE LINE DIAGRAM
NTS



600V SWGR ELEVATION
NTS



RWPS MCC SINGLE LINE DIAGRAM
NTS

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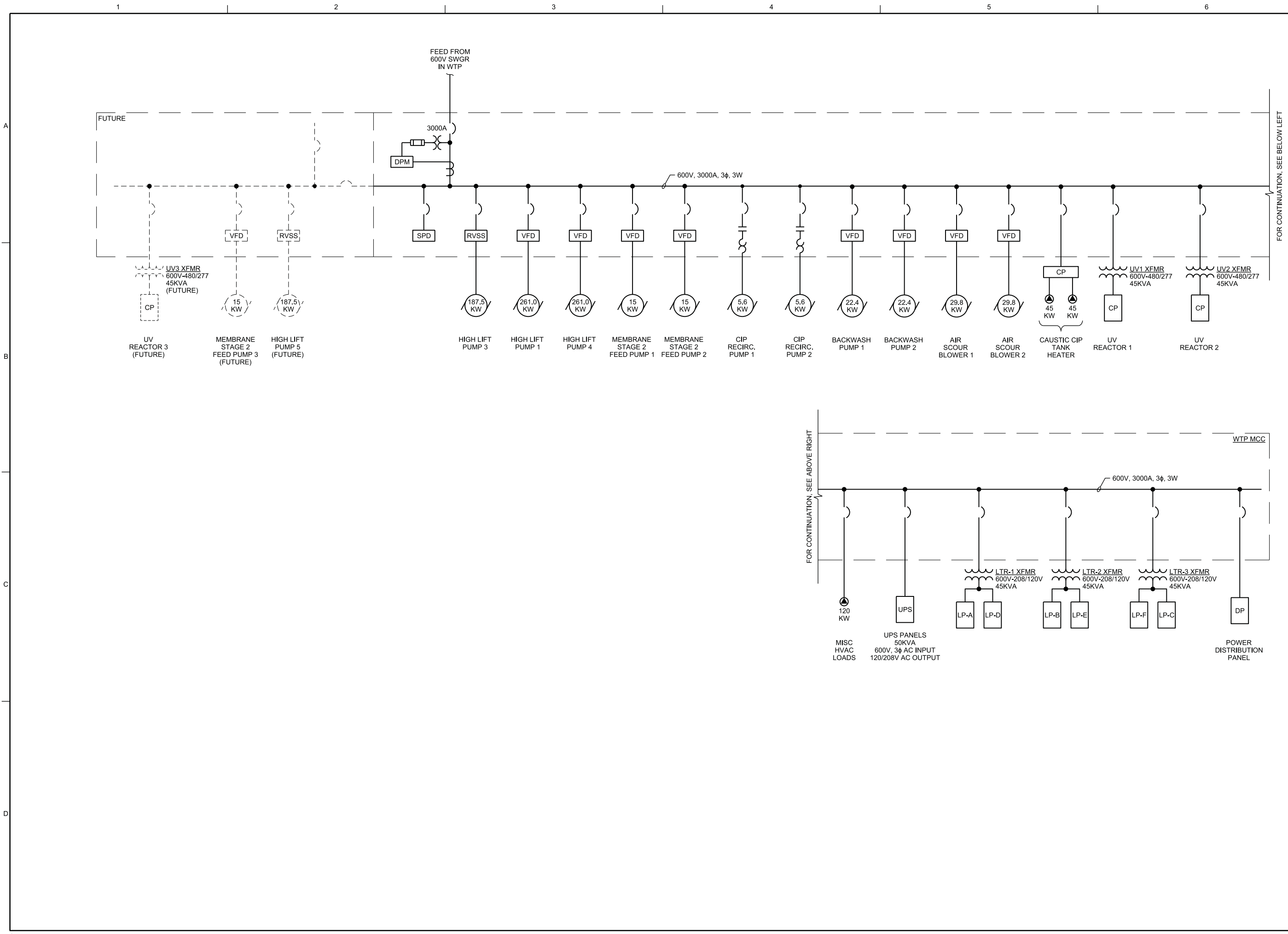
NO.	DATE	ISSUED FOR PRE-DESIGN REVIEW	REVISION	CHK	APVD
A	05/12/14			R HARBERT	B ENGLESON
DR	W THIESSEN	J HJELMBERG	R HARBERT	B ENGLESON	

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ENGLISHMAN RIVER
WATER SERVICE INTAKE,
TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL®
ELECTRICAL
SINGLE LINE DIAGRAM
SHEET 1

NOT TO SCALE
VERIFY SCALE
BAR IS ONE 25mm ON ORIGINAL DRAWING
0 25mm

DATE	05/12/14
PROJ	476148
DWG	E-001
SHEET	25 of 27



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A	05/12/14			J. HJELMBERG	R. HARBERT	B. ENGLESON

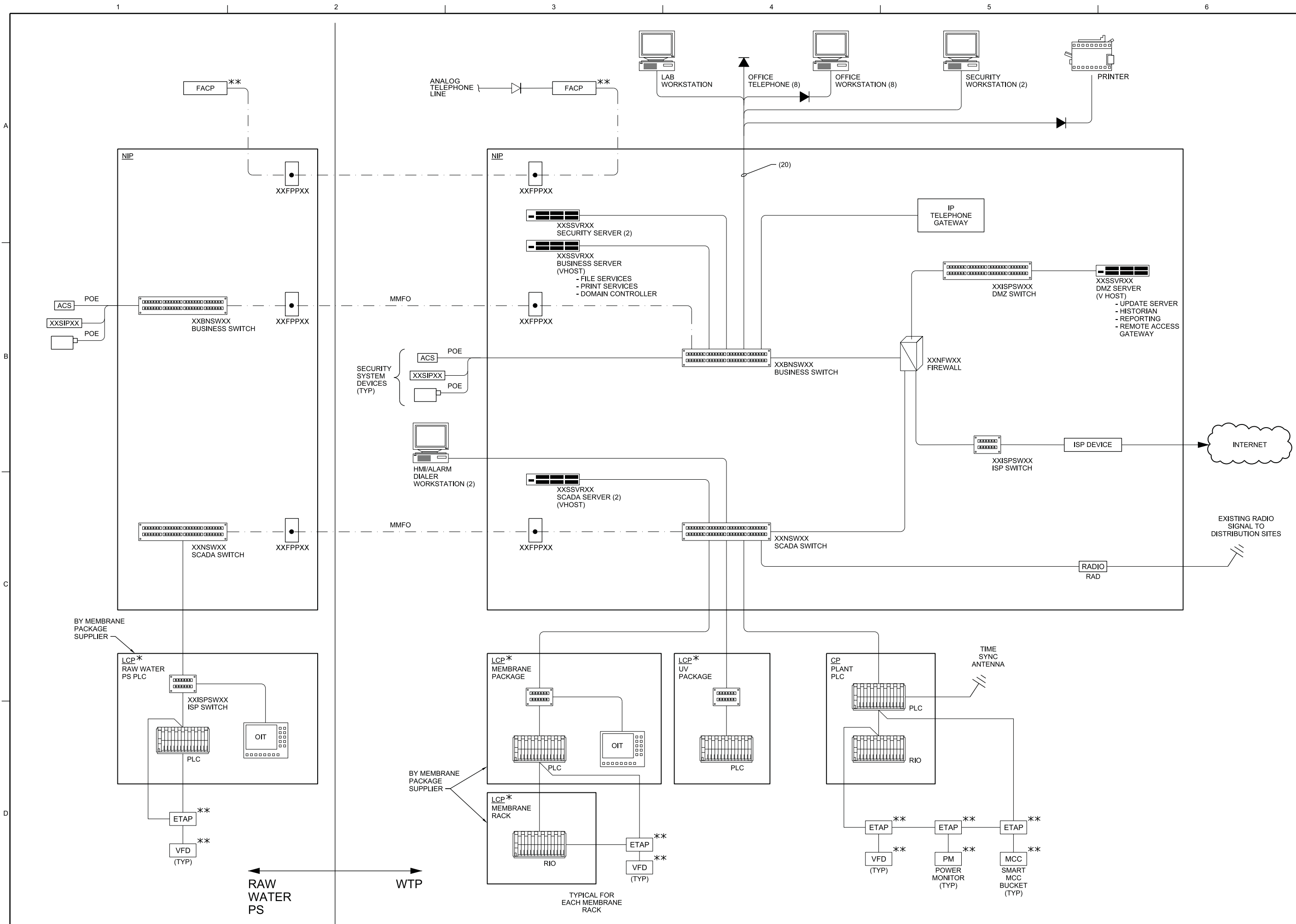
CH2MHILL®
 ENGLISHMAN RIVER WATER SERVICE
 WATER SERVICE INTAKE, TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL®
 ELECTRICAL
 SINGLE LINE DIAGRAM
 SHEET 2

NOT TO SCALE
 VERIFY SCALE
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 0 25mm

DATE 05/12/14
 PROJ 476148
 DWG E-002
 SHEET 26 of 27

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				P. HAMLIN	

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 ENGLISHMAN RIVER WATER SERVICE INTAKE, TREATMENT PLANT AND SUPPLY MAINS

CH2MHILL
 INSTRUMENTATION AND CONTROL NETWORK BLOCK DIAGRAM

NOT TO SCALE
 VERIFY SCALE
 BAR IS ONE 25mm ON ORIGINAL DRAWING
 DATE: 05/12/14
 PROJ: 476148
 DWG: I-001
 SHEET: 27 of 27