

- NOTES:
1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN IS BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY ERROR OR OMISSION IN THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
 2. DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. WSP ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 3. WHOLE NUMBERS INDICATE MILLIMETRES; DECIMALIZED NUMBERS INDICATE METRES.
 4. TEMPORARY BENCHMARK - REBAR LOCATED IN THE FIELD AT GROUND ELEVATION NEAR THE SOUTHEAST CORNER OF THE FOURTH HYDRO TOWER EAST OF THE MILE ROAD BETWEEN 33-15-9 EPM AND 34-15-9 EPM EL. 99.965m
- TESTPITS (TP)



CONSULTANT:
RECORD DRAWING
 DATE 2018/12/18 BY J.S.B.
 REVIEWED BY R.W.W.

SEAL:
 ORIGINAL DRAWING
 SEALED BY
 R.W. WEBSTER
 AND DATED
 2014-12-03

CLIENT:
 BRIGHTSTONE COLONY

CLIENT REF. #:
 PROJECT:
 BRIGHTSTONE COLONY
 LAGOON CONSTRUCTION

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
4	2018/12/18	RECORD DRAWINGS
3	2014/11/28	CONSTRUCTION
2	2011/07/06	ALTERATION NOTIFICATION
1	2009/02/06	EAP SUBMISSION

IS	RE	DATE	DESCRIPTION
PROJECT NO:	071-12389-00 (OLD # 07-159)	DATE:	2014/11/28
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	J.S.B.		
DRAWN BY:	J.S.B.		
CHECKED BY:	R.W.W.		

DISCIPLINE: ENVIRONMENTAL INFRASTRUCTURE
 TITLE: LOCATION AND SITE PLAN

SHEET NUMBER: C01
 SHEET #: 1 OF 4
 ISSUE: RECORD DRAWINGS
 DATE OF: 2018/12/18
 REV # 3

CONSULTANT:
RECORD DRAWING
 DATE 2018/12/18 BY J.S.B.
 REVIEWED BY R.W.W.

SEAL:
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 R.W. WEBSTER
 AND DATED
 2014-12-03

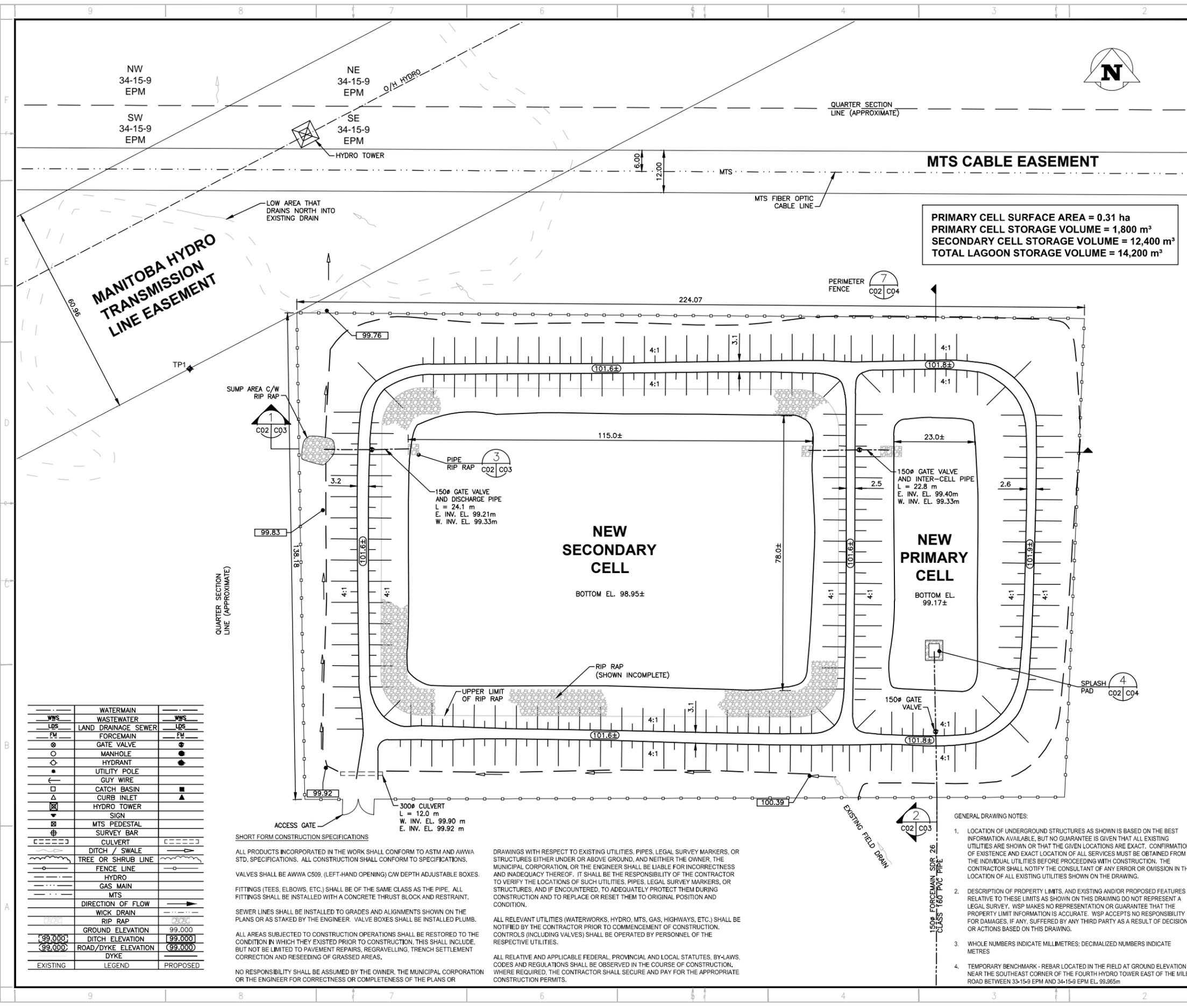
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 BRIGHTSTONE COLONY

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PROJECT NO:	DATE:
071-12389-00 (OLD # 07-159)	2014/11/28
ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
1:500	
DESIGNED BY:	DRAWN BY:
J.S.B.	J.S.B.
CHECKED BY:	DISCIPLINE:
R.W.W.	ENVIRONMENTAL INFRASTRUCTURE
TITLE:	PROPOSED SITE PLAN
SHEET NUMBER:	C02
SHEET #:	2 OF 4
ISSUE:	RECORD DRAWINGS
DATE OF:	2018/12/18
REV #:	3



PRIMARY CELL SURFACE AREA = 0.31 ha
PRIMARY CELL STORAGE VOLUME = 1,800 m³
SECONDARY CELL STORAGE VOLUME = 12,400 m³
TOTAL LAGOON STORAGE VOLUME = 14,200 m³

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
WWS	WATERMAIN	WWS	WASTEWATER
LDS	LAND DRAINAGE SEWER	LDS	LAND DRAINAGE SEWER
FM	FORCEMAIN	FM	FORCEMAIN
○	GATE VALVE	○	GATE VALVE
○	MANHOLE	○	MANHOLE
○	HYDRANT	○	HYDRANT
○	UTILITY POLE	○	UTILITY POLE
○	GUY WIRE	○	GUY WIRE
□	CATCH BASIN	□	CATCH BASIN
△	CURB INLET	△	CURB INLET
△	HYDRO TOWER	△	HYDRO TOWER
▽	SIGN	▽	SIGN
⊕	MTS PEDESTAL	⊕	MTS PEDESTAL
⊕	SURVEY BAR	⊕	SURVEY BAR
⊕	CULVERT	⊕	CULVERT
⊕	DITCH / SWALE	⊕	DITCH / SWALE
⊕	TREE OR SHRUB LINE	⊕	TREE OR SHRUB LINE
⊕	FENCE LINE	⊕	FENCE LINE
⊕	HYDRO	⊕	HYDRO
⊕	GAS MAIN	⊕	GAS MAIN
⊕	MTS	⊕	MTS
⊕	DIRECTION OF FLOW	⊕	DIRECTION OF FLOW
⊕	WICK DRAIN	⊕	WICK DRAIN
⊕	RIP RAP	⊕	RIP RAP
⊕	GROUND ELEVATION	⊕	GROUND ELEVATION
⊕	DITCH ELEVATION	⊕	DITCH ELEVATION
⊕	ROAD/DYKE ELEVATION	⊕	ROAD/DYKE ELEVATION
⊕	DYKE	⊕	DYKE
⊕	EXISTING	⊕	LEGEND
⊕	LEGEND	⊕	PROPOSED

SHORT FORM CONSTRUCTION SPECIFICATIONS

ALL PRODUCTS INCORPORATED IN THE WORK SHALL CONFORM TO ASTM AND AWWA STD. SPECIFICATIONS. ALL CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS.

VALVES SHALL BE AWWA C509, (LEFT-HAND OPENING) C/W DEPTH ADJUSTABLE BOXES. FITTINGS (TEES, ELBOWS, ETC.) SHALL BE OF THE SAME CLASS AS THE PIPE. ALL FITTINGS SHALL BE INSTALLED WITH A CONCRETE THRUST BLOCK AND RESTRAINT.

SEWER LINES SHALL BE INSTALLED TO GRADES AND ALIGNMENTS SHOWN ON THE PLANS OR AS STAKED BY THE ENGINEER. VALVE BOXES SHALL BE INSTALLED PLUMB.

ALL AREAS SUBJECTED TO CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE CONDITION IN WHICH THEY EXISTED PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO PAVEMENT REPAIRS, REGRAVELLING, TRENCH SETTLEMENT CORRECTION AND RESEEDING OF GRASSED AREAS.

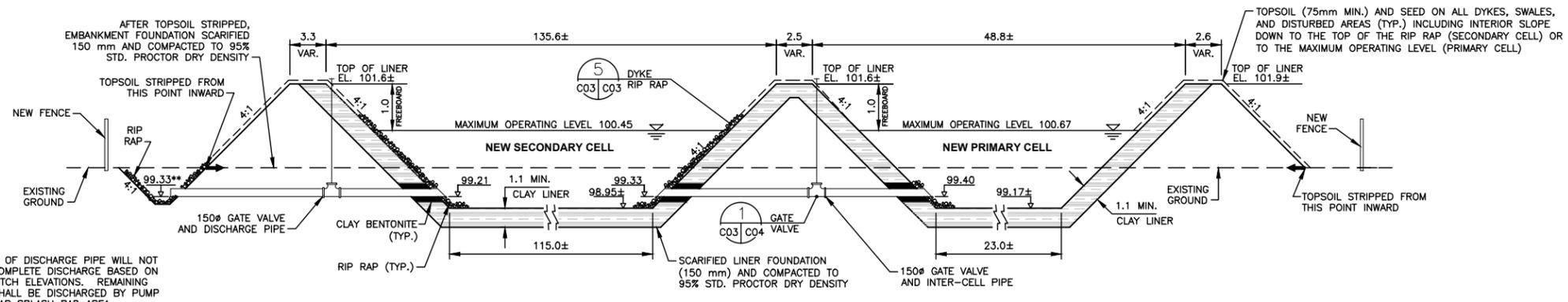
NO RESPONSIBILITY SHALL BE ASSUMED BY THE OWNER, THE MUNICIPAL CORPORATION OR THE ENGINEER FOR CORRECTNESS OR COMPLETENESS OF THE PLANS OR

DRAWINGS WITH RESPECT TO EXISTING UTILITIES, PIPES, LEGAL SURVEY MARKERS, OR STRUCTURES EITHER UNDER OR ABOVE GROUND, AND NEITHER THE OWNER, THE MUNICIPAL CORPORATION, OR THE ENGINEER SHALL BE LIABLE FOR INCORRECTNESS AND INADEQUACY THEREOF. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF SUCH UTILITIES, PIPES, LEGAL SURVEY MARKERS, OR STRUCTURES, AND IF ENCOUNTERED, TO ADEQUATELY PROTECT THEM DURING CONSTRUCTION AND TO REPLACE OR RESET THEM TO ORIGINAL POSITION AND CONDITION.

ALL RELEVANT UTILITIES (WATERWORKS, HYDRO, MTS, GAS, HIGHWAYS, ETC.) SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTROLS (INCLUDING VALVES) SHALL BE OPERATED BY PERSONNEL OF THE RESPECTIVE UTILITIES.

ALL RELATIVE AND APPLICABLE FEDERAL, PROVINCIAL AND LOCAL STATUTES, BY-LAWS, CODES AND REGULATIONS SHALL BE OBSERVED IN THE COURSE OF CONSTRUCTION. WHERE REQUIRED, THE CONTRACTOR SHALL SECURE AND PAY FOR THE APPROPRIATE CONSTRUCTION PERMITS.

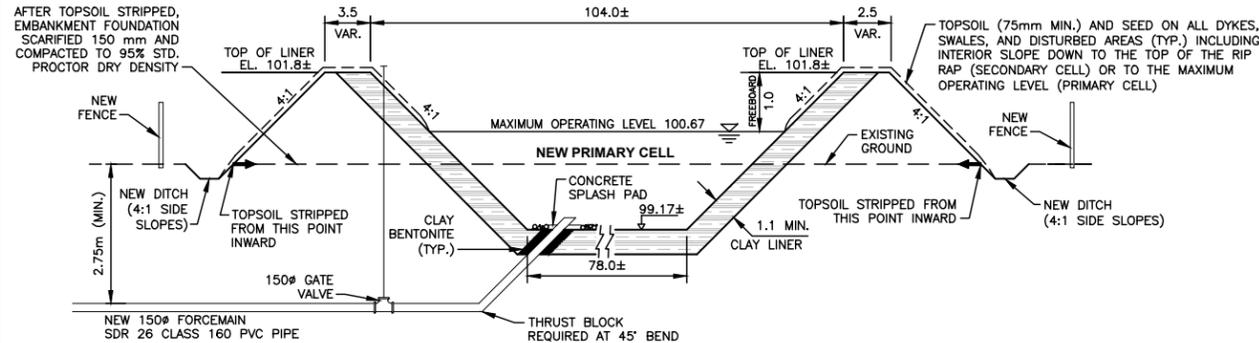
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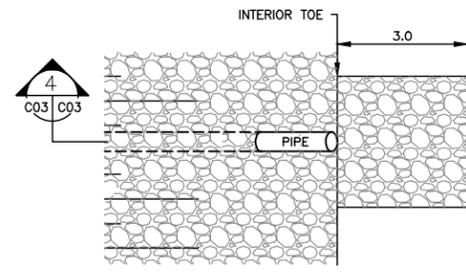
**ELEVATION OF DISCHARGE PIPE WILL NOT PERMIT A COMPLETE DISCHARGE BASED ON DRAINAGE DITCH ELEVATIONS. REMAINING EFFLUENT SHALL BE DISCHARGED BY PUMP TO A RIP RAP SPLASH PAD AREA.

PROPOSED CLAY LINER
HYDRAULIC CONDUCTIVITY < 1x10⁻⁷ cm/s

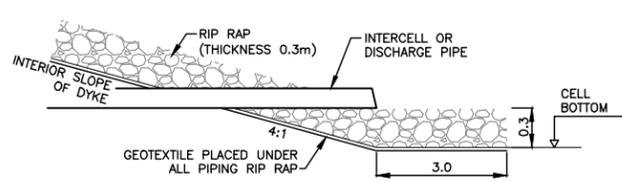
1 W/E SECONDARY AND PRIMARY CELL SECTION
N.T.S.



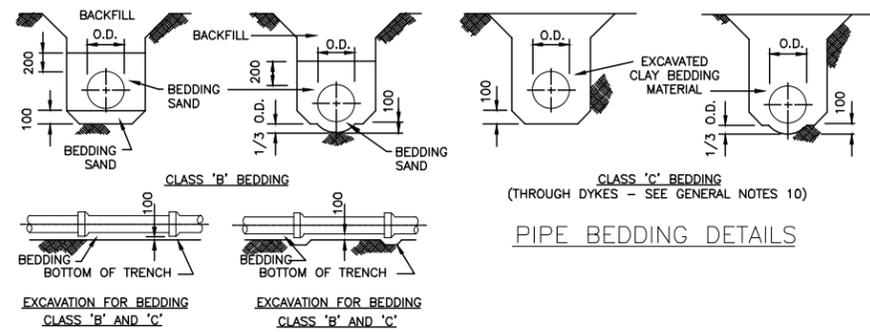
2 S/N PRIMARY CELL SECTION
N.T.S.



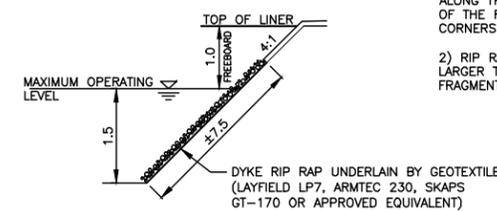
3 PIPE RIP RAP DETAIL
N.T.S.



4 PIPE RIP RAP SECTION
N.T.S.



PIPE BEDDING DETAILS



5 DYKE RIP RAP AND GEOTEXTILE
N.T.S.

- GENERAL NOTES:
- CONTRACTOR RESPONSIBLE FOR THE MANAGEMENT OF ALL WATER EXPERIENCED DURING CONSTRUCTION OF THE LAGOON, INCLUDING DEWATERING, TRENCHING, PUMPING, MATERIAL DRYING AND ALL OTHER METHODS NECESSARY TO CONSTRUCT THE CLAY LINER, EMBANKMENTS AND CONTROL ALL DRAINAGE WORKS AFFECTED BY CONSTRUCTION.
 - CONTRACTOR TO IMPLEMENT EFFECTIVE EROSION CONTROL MEASURES TO PREVENT ANY SEDIMENT OR SOILS FROM LEAVING THE CONSTRUCTION SITE.
 - TOPSOIL TO BE REMOVED AND STOCKPILED IN OWNER APPROVED LOCATIONS FROM ALL APPLICABLE AREAS, PRIOR TO EXCAVATION.
 - THE CONTRACTOR SHALL OBTAIN A PROCTOR ANALYSIS, BY A QUALIFIED SOILS LABORATORY, OF THE SOIL TO BE USED IN THE CONSTRUCTION OF THE CLAY LINER AND THE OTHER EMBANKMENT AREAS, IF DIFFERENT.
 - CONTRACTOR TO EXCAVATE TO DESIGN GRADES AND PRIOR TO PLACEMENT OF ANY EMBANKMENT, SCARIFY UNDERLYING MATERIAL TO A DEPTH OF 150mm AND COMPACT TO 95% STANDARD PROCTOR DRY DENSITY. THE CELL BOTTOMS AND SLOPES SHALL BE COMPACTED TO THESE SPECIFICATIONS AS WELL.
 - EMBANKMENT MATERIAL SHALL BE PLACED AND COMPACTED IN 150mm (MAX.) LIFTS UNTIL THE DENSITY ACHIEVED IS 95% OF STANDARD PROCTOR DRY DENSITY. THE MOISTURE CONTENT OF THE EMBANKMENT MATERIAL SHALL BE MINUS ONE PERCENT TO PLUS THREE PERCENT OF OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR TEST. MATERIAL USED FOR EMBANKMENT SHALL NOT CONTAIN FROZEN LUMPS, WEEDS, SOD, ROOTS, LOGS, STUMPS, TRASH OR ANY OTHER OBJECTIONABLE MATERIAL.
 - THE PROPOSED CELLS ARE TO BE CONSTRUCTED WITH A CLAY LINER WITH THE USE OF SUITABLE CLAY MATERIAL UNSUITABLE MATERIAL REMOVED FROM THE EXCAVATION OF THE LINER MAY BE USED IN THE CONSTRUCTION OF THE EXTERIOR AREAS OF THE PERIMETER DYKES. CLAY LINER TO MEET 1.1 METRE THICKNESS AND HYDRAULIC CONDUCTIVITY OF < 1x10⁻⁷ cm/s.
 - THE CONTRACTOR SHALL USE EXCAVATED CLAY MATERIAL THAT HAS BEEN SCARIFIED, MIXED, COMPACTED AT MINUS ONE PERCENT TO PLUS THREE PERCENT OF OPTIMUM MOISTURE CONTENT TO ACHIEVE THE REQUIRED SOIL HYDRAULIC CONDUCTIVITY OF THE CLAY LINER. IF REQUIRED, A SUITABLE CLAY SOURCE SHALL BE OBTAINED FROM A BORROW AREA.
 - THE COMPLETED EXCAVATED FOUNDATION SHALL BE SUBJECT TO REVIEW BY THE ENGINEER.
 - ALL BACKFILL AND BEDDING MATERIAL THROUGH DYKES SHALL BE CLAY HAVING THE SAME PROPERTIES AS THE CLAY LINER AND COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY. WASTEWATER SEWER PIPE THROUGH CLAY LINER SHALL BE EMBEDDED IN CLAY BENTONITE PELLETS (NOT POWDER) PACKED FOR THE WIDTH OF THE PIPE TRENCH.
 - COMPACTION TESTING MUST BE PERFORMED ON THE SCARIFIED AND COMPACTED NEW DYKE FOUNDATION AND REGULARLY ON THE DYKE EMBANKMENTS, BOTH ON THE CLAY LINER AND DYKE MATERIAL. COMPACTION TESTING MUST ALSO BE PERFORMED DURING THE INITIAL STAGES OF EXCAVATION/EMBANKMENT TO CONFIRM AN ADEQUATE LEVEL OF EFFORT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCARIFYING AND RE-COMPACTING ANY MATERIAL WHICH DOES NOT MEET THE MINIMUM SPECIFIED DENSITY.
 - IF THE SURFACE OF ANY PORTION OF THE EMBANKMENT DURING CONSTRUCTION SHOULD BECOME TOO DRY, IT SHALL BE SCARIFIED, WATERED AND RE-COMPACTED.
 - IF THE EMBANKMENT MATERIAL IS TOO WET, IT SHALL BE DISCED AND DRIED BEFORE COMPACTION.
 - GENERALLY, COMPACTION SHALL BE BY NONVIBRATORY ROLLERS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - THE COST OF THE PROCTOR/COMPACTION REVIEW AND TESTING, INCLUDING CLAY LINER TESTING AS STIPULATED IN THE ENVIRONMENT ACT LICENCE WILL BE BORNE BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL PAY THE COST OF ANY RE-TESTS AND ASSOCIATED COSTS, INCLUDING EARTHWORK AND CLAY LINER, REQUIRED IN THE EVENT OF THE FAILURE OF THE INITIAL TESTS.
 - ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN PREVIOUS.
 - WASTEWATER SEWER AND FORCEMAIN PIPE SHALL IS PVC CLASS 160 (SDR 26). PRESSURE TESTING OF THE FORCEMAIN SHALL BE DONE ACCORDING TO MWSB CONSTRUCTION SPECIFICATIONS.
 - ALL PERIMETER DITCH GRADING TO BE FINALIZED DURING CONSTRUCTION. GENERALLY GRADING SHALL BE COMPLETED TO PREVENT ANY PONDING OF WATER AROUND THE DEVELOPMENT.
 - ANY BORROW AREA PERIMETER EDGES THAT REMAIN AFTER BACKFILLING ARE TO BE FINISHED GRADED AT 4:1 WITH DRAINAGE OPENING TO THE NEAREST DRAIN.
 - TEMPORARY BENCHMARK (TBM) TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - WWSW TO BE CONSTRUCTED IN ACCORDANCE WITH ENVIRONMENT ACT LICENCE, NOTICE OF ALTERATION(S), DESIGN DRAWINGS AND THE ENVIRONMENT ACT PROPOSAL REPORT CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE MINIMUM REQUIREMENTS OF THE AFOREMENTIONED DOCUMENTS AND THESE DESIGN DRAWINGS THE LATTER SHALL GOVERN.

- RIP RAP NOTES:
- DYKE RIP RAP SHALL BE PLACED TO A TOTAL WIDTH OF 7.5 METRES WITH A THICKNESS OF 0.3 METRES ALONG THE INTERIOR SLOPE OF THE DYKE. THE WIDTH OF THE RIP RAP WILL BE EXTENDED IN THE CELL CORNERS TO PROVIDE THE NECESSARY COVERAGE.
 - RIP RAP SHALL BE 100-200mm DIAMETER WITH 75% LARGER THAN 150mm DURABLE FIELDSTONE OR ROCK FRAGMENTS, OR DURABLE WHITE CRYSTALLINE LIMESTONE



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LAGOON CONSTRUCTION

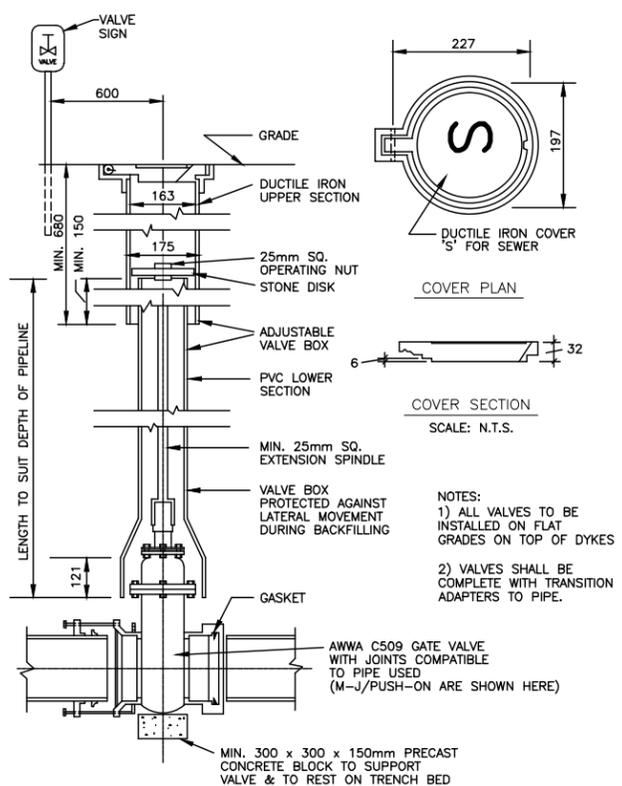
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071-12389-00 (OLD # 07-159)
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ORIGINAL SCALE:
NTS
DESIGNED BY:
JSB
DRAWN BY:
JSB
CHECKED BY:
RWW

DISCIPLINE:
ENVIRONMENTAL INFRASTRUCTURE
TITLE:
PROPOSED CELL SECTIONS, RIP
RAP AND PIPE BEDDING DETAILS

SHEET NUMBER:
C03
SHEET #:
3 OF 4
RECORD DRAWINGS
DATE OF: 2018/12/18
REV #:
3

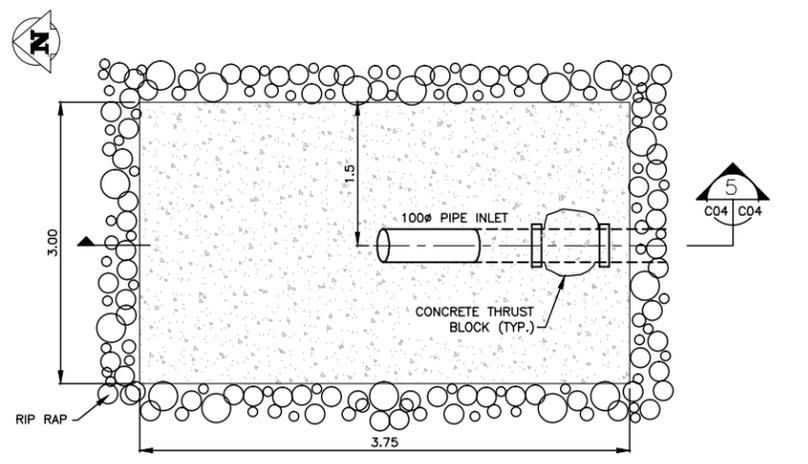


1 GATE VALVE INSTALLATION
N.T.S.

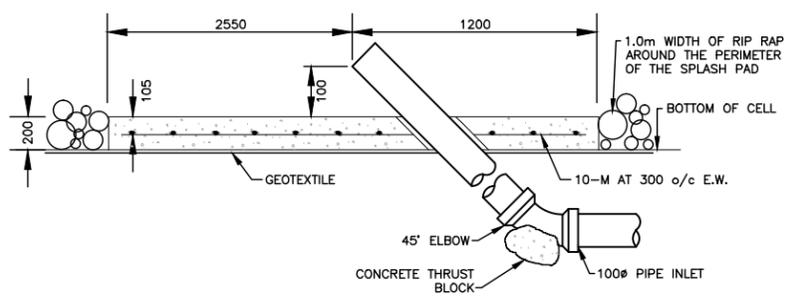
COVER PLAN
SCALE: N.T.S.

COVER SECTION
SCALE: N.T.S.

NOTES:
1) ALL VALVES TO BE INSTALLED ON FLAT GRADES ON TOP OF DYKES
2) VALVES SHALL BE COMPLETE WITH TRANSITION ADAPTERS TO PIPE.



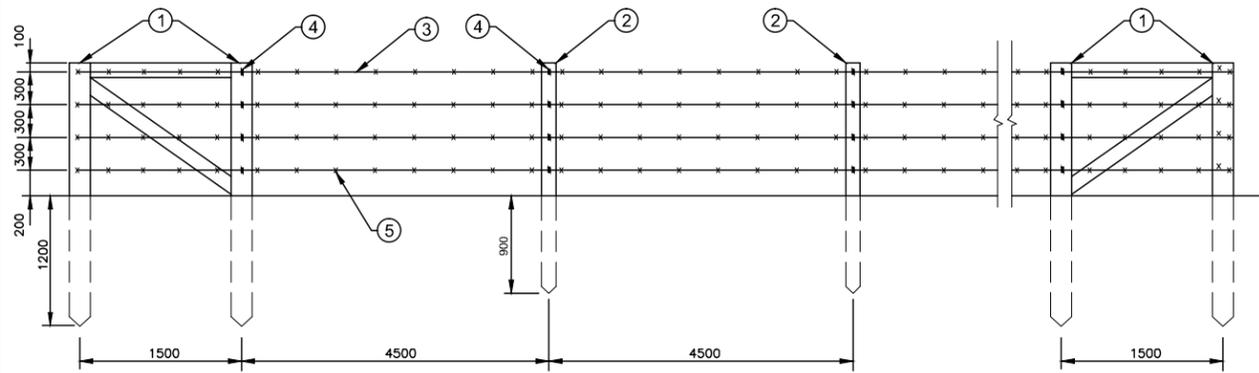
4 SPLASH PAD DETAIL
N.T.S.



5 SPLASH PAD SECTION
N.T.S.

SPLASH PAD NOTES:

- IF PVC OR PE PIPE IS PRECAST INTO CONCRETE PIPE WALL IN CONTACT WITH CONCRETE IT SHALL BE ROUGHED BY APPLYING SOLVENT WELD CEMENT AND ROLLING IN FINE SAND.
- IF PIPE IS NOT PRECAST INTO CONCRETE, GAP BETWEEN PIPE AND PAD SHALL BE FILLED WITH MASTIC.
- CONCRETE SUPPLIER TO PROPORTION CONCRETE MIX TO GIVE THE FOLLOWING PROPERTIES: CLASS OF EXPOSURE: A-3; MAXIMUM COARSE AGGREGATE: 20 mm; 30 MPa @ 28 d



NOTES:

- CORNER POSTS: 100X100 TREATED WOOD POST, 2400mm LONG
- REGULAR POSTS: 100mm TREATED WOOD POST, 2100mm LONG
- 2 STRAND 2# GALVANIZED WIRE (TYP.)
- WIRE FENCE STAPLES (TYP.)
- 4 POINT BARBS (TYP.)

7 PERIMETER FENCE DETAIL
N.T.S.



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DESIGNED BY: JSB
DRAWN BY: JSB
CHECKED BY: RWW
DISCIPLINE: ENVIRONMENTAL INFRASTRUCTURE
TITLE: GATE VALVE, SPLASH PAD AND PERIMETER FENCE DETAILS

SHEET NUMBER: C04
SHEET #: 4 OF 4
RECORD DRAWINGS
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REV # 3