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މިނިސްޓް ރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނަރޖީ Ministry of Environment and Energy
މާލެ، ދިވެހިރާއްޖެ. Male’, Republic of Maldives.
އިއުލާން ނަންބަރ/438/2017/124:WMPC438-(IUL)
މަޝްރޫޢުގެ ނަން: ގއ. ވިލިނގިލީގައިކުނި މެނޭޖްކުރާ މަރުކަޒު އަޕްގްރޭޑް
ކުރުމުގެ މަސައްކަތް
ބީލަން ފޮތް
ބީލަން ދޫކުރާ ފަރާތް: މިނިސްޓްރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނާރޖީ
6 ޞަފްޙާގެތެރެއިން ޞަފްޙާ 1

ބީ ން ތުގަ އި ހިމެ ނޭ ބަ އި ތައް
ލަ ފޮ
ބީ ލަމާ އިއެކު ހުށަހަޅާ ސިޓީ
....
ބީ ލަމާ ބެ ހޭ އިރުޝާ
ދު ....
1.
ތަޢާރަފް
....
2. ބީ ލަންތައް އަ ގު ވަޒަންކު ރުމު ގަ އި ބަ ލާނެ މިންގަ ނޑު ތައް
....
3. ހުށައަޅާ ބީ ލަމާ އިއެކު ހުށަހަޅަންޖެ ހޭ ތަކެ ތި
....
4. ބީ ލަމާ އި ގު ޅޭ ޕްރީބި ޑް ބަ އް ދަލުވުން އަ ދި އަންދާސީ ހިސާބު ހުށަހެޅުން
....
5. ބީ ލަމާ އި ގު ޅޭ އިތުރު މަ ޢުލޫމާ ތު
....
ފޯމް 1: ކޮންޓް ރެކް ޓަ ރުގެ ޕްރޮޕޯސަ
ލް..
ފޯމް 2: މަސަ އްކަ ތުގެ ތާވަލް
....
މް 3: މަސަ އްކަ ތުގެ އަ ގު
ފޯ ....
މް 4: މަސަ އްކަ ތް ކު ރުމަށް ހުށަހަޅާ އަ ގު ގެ ޙުލާސާ
ފޯ ....
ޖަ ދުވަލް 1 : ކުން ފުނި ރަޖިސްޓް ރޭޝަން އަ ދި ޖީ. އެސް. ޓީ ރެޖިސްޓް ރޭޝަން ސެޓް ފިކެ ޓް / ދިވެހި ރައްޔިތެއްކަންއަންގަ އި ދޭ ކާ ރޑު ގެ
ކޮ
ޕީ
2
ޖަ ދުވަލް : މަސައްކަ ތާއި ގު ޅޭ ކު ރެހުންތައް
....
ވަ 3 : މަސައްކަ ތުގަ އި ބަ ން ހޭ ޓެ ކްނިކަ ސް ސި ކޭ ޝްންސް
ޖަ ދު ލް ލަ ޖެ ލް ޕެ ފި ....
ވަލް 4 : މަސައްކަ ތް ކު ރަން ހޭ ސަ ރަހައް އަންގަ އި ޗާޓެ އް
ޖަ ދު ޖެ ދު ދޭ ....
2 6
ޞަ ފްޙާ ގެ ތެރެއިން ޞަ ފްޙާ

ބީލަމާއިއެކު ހުށަހަޅާ ސިޓީ
(ހުށަހަޅާފަރާތުގެ އެޑްރެސް)
މިނިސްޓަރ އޮފް އެންވަރަޔަރަންމަންޓް އެންޑް އެނަރޖީ އޮނަރަބަލް އަލްފާޟިލް ޡޯރިޤު
އިބްރާހީމަށް
ވެދުން ސަލާމަށްފަހު ދަންނަވަމެވެ.
ގއ. ވިލިނގިލީގައި ޤާއިމުކޮށްފައިވާ ކުނި މެނޭޖްކުރާ މަރުކަޒު އަޕްގްރޭޑް ކުރުމުގެ މަސައްކަތް
އަމިއްލަ ތަކެތީގައި ކޮށްދޭނެ ފަރާތެއް ހޯދުމަށްޓަކައި .... ވަނަ ދުވަހު ކޮށްފައިވާ .... ނަންބަރު އިޢުލާނާއި
ހަވާލާދީ ދަންނަވަމެވެ.
މިބީލަމުގައި ބަޔާންކުރެވިފައިވާ މަސައްކަތް ކުރުމަށް .... ރުފިޔާއަށް އަޅުގަ ނޑު
ހުށަހަޅަމެވެ. މި މަސައްކަތްކުރުމަށް އަޅުގަ ނޑު ހުށަހަޅާ މުއްދަތަކީ ކޮންޓްރެކްޓްގައި ސޮއިކުރެވޭ ތާރީޚުން ފެށިގެން
.... ދުވަހުހެވެ.
މިބީލަމުގައި ހިމެނިފައިވާ ހުރިހާ މަޢުލޫމާތުތަކާއި މިބީލަމާއި އެކުގައި ހުށަހަޅާފައިވާ
ލިޔެކިޔުންތަކުގައިވަނީ ޞައްހަ ތެދު މައުލޫމާތުކަން އަޅުގަ ނޑު ޔަޤީންކޮށްދެމެވެ. އަދި ހުށަހަޅާފައިވާ ބީލަމުގައި އެއްވެސް
އޮޅުވާލުމެއް ނުވަތަ ދޮގު މައުލޫމާތު ތަކެއްވާނަމަ ބީލަން ބާތިލް ކުރުމުގެ އިޚްތިޔާރު ތިޔަފަރާތަށް ލިބިގެންވާކަމަށް އަޅުގަ ނޑު
ޤަބޫލުކުރަމެވެ.
އިޙްތިރާމް ޤަބޫލް ކުރެއްވުން އެދެމެވެ.
.... 2017
(ސޮއި)
....
(ނަމާއި އައި.ޑީ ކާޑު ނަންބަރު)
މިނިސްޓްރީ އޮފް އެންވަރަޔަރަންމަންޓް އެންޑް އެނަރޖީ
މާލެ،ދިވެހިރާއްޖެ
6 ޞަފްޙާގެތެރެއިން ޞަފްޙާ 3

ބީލަމާ ބެހޭ އިރުޝާދު
1. ތަޢާރަފް
މި މަޝްރޫޢުއަކީ ސާފު ރާއްޖެ އިނީޝިއޭޓިވްގެ ދަށުން، ރާއްޖޭގެ ރަށްތަކަށް ކުރިމަތިވެފައިވާ ކުނިމެނޭޖް ކުރުމުގެ
މައްސަލައަށް ޙައްލު ހޯދައިދިނުމަށް އެހީތެރިވުމަށް މި މިނިސްޓްރީން ކުރައްވަމުން ގެންދަވާ މަސައްކަތުގެ ތެރެއިން،
ގއ. ވިލިނގިލީގައި ޤާއިމުކޮށްފައިވާ ކުނި މެނޭޖުކުރާމަރުކަޒު އަޕްގްރޭޑް ކުރުމެވެ.
2. ބީލަންތައް އަގު ވަޒަންކުރުމުގައި ބަލާނެ މިންގަ ނޑުތައް
މިމަސައްކަތަށް ހުށަހަޅާ ބީލަންތައް އިވެލުއޭޓްކުރުމުގައި މާރކްސް ދެވޭނީ ތިރީގައި ބަޔާންކުރެވިފައިވާ ގޮތުގެ މަތިންނެވެ.
• އަގު – 50%
• މަސައްކަތުގެ ތަޖުރިބާ - 30%
- އިވެލުއޭޝަންގައި ބެލެވޭނީ ވޭތުވެދިޔަ 5 އަހަރު ދުވަހު ކޮށްފައިވާ މަސައްކަތްތަކަށް އެކަންޏެވެ.
- އިވެލުއޭޝަންގައި މިކަމާއި ގުޅުންހުރި މަސައްކަތްތަކަށް ދިނުމަށް ހަމަޖެހިފައިވަނީ 15 އިންސައްތައެވެ.
- އިވެލުއޭޝަންގައި ޖުމްލަކޮށް ކޮށްފައިވާ އާންމު މަސައްކަތްތަކަށް ދިނުމަށް ހަމަޖެހިފައިވަނީ 15
އިންސައްތައެވެ.
- މަސައްކަތު ތަޖުރިބާ ހުރި މިންވަރު އިވެލުއޭޓްކުރުމުގައި ބެލެވޭނެ މިންގަ ނޑަކީ، މިކަމާއި ގުޅޭ
މަސައްކަތްތަކަށްވެސް އަދި އާންމުކޮށް ކޮށްފައިވާ މަސައްކަތްތަކަށްވެސް ކޮންމެ މަސައްކަތަކަށްވެސް
ހުށަހަޅާފައިވާ ލިޔުން ފުރިހަމަ ކަމުގައިވާނަމަ، 03 ޕޮއިންޓެވެ 03(އިންސައްތަ).
• ކުންފު ނީގެ މާލީ ހާލަތު ހުރި މިންވަރު (20%)
- ވޭތުވެދިޔަ 02 އަހަރުގެ ތެރޭގައި 1,000,000/-ރ (އެއްމިލިޔަން) ދިވެހި ރުފިޔާ އަށްވުރެ މަތީގެ 03
ޕްރޮޖެކްޓް ހިންގާފައިވާ ކަމުގެ ލިޔުން (މަސައްކަތް ނިންމި ކަމުގެ ލިޔުން) ހުށަހަޅާފައިވާނަމަ މި ބަޔަށް
ހަމަޖެހިފައިވާ 20% ފުރިހަމަޔަށް ލިބޭނެއެވެ. ނުވަތަ،
- ވޭތުވެދިޔާ 02 އަހަރުގެ ތެރޭގައި 400,000ރ (ހަތަރު ލައްކަ) ދިވެހި ރުފިޔާ އާއި 1,000,000ރ
(އެއްމިލިޔަން) ދިވެހި ރުފިޔާއާއި ދެމެދުގެ 06 މަސައްކަތް ކޮށްފައިވާކަމަށް ލިޔުން (މަސައްކަތް ނިންމި
ކަމުގެ ލިޔުން) ހުށަހަޅާފައިވާނަމަވެސް މި ބަޔަށް ކަ ނޑައަޅުއްވާފައިވާ 20% ފުރިހަމަޔަށް ލިބޭނެއެވެ.
- މާލީ ހާލަތު ބަޔާންކުރުމަށް ހުށަހަޅާ ލިޔުންތަކުގެ ތެރިއިން 400,000ރ (ހަތަރު ލައްކަ) އަށް ވުރެ ދަށުގެ
އަދަދަކަށް ކޮށްފައިވާ މަސައްކަތްތަށް މިބައިގެ އިވެލުއޭޝަންގައި ނުބެލެވޭނެއެވެ.
ނޯޓް:
• މަސައްކަތު ތަޖުރިބާ ހުރި މިންވަރު ހާމަ ކުރުމުގައި އަދި މާލީ ހާލާތު ހުރި މިންވަރު ހާމަކޮށްދިނުމަށް ހުށަހަޅާ
ލިޔުމަކީ، މަސައްކަތް ކޮށްފައިވާ ތާރީޙް، މަސައްކަތުގެ ޖުމްލަ އަގު އަދި މަސައްކަތުގެ ބާވަތް ހާމަވާން ޖެހޭ ލިޔުމަކަށް
ވާންޖެހޭނެއެވެ.
6 ޞަފްޙާގެތެރެއިން ޞަފްޙާ 4

• މަސައްކަތަށް ހޮވޭނީ އިވެލުއޭޝަންއިން އެންމެ މަތިން މަރކްސް ލިބޭ ފަރާތެކެވެ.
3. ހުށަހަޅާ ބީލަމާއިއެކު ހުށަހަޅަންޖެހޭ ތަކެތި
• ކުންފުންޏެއްނަމަ، ކުންފުނީގެ ރަޖިސްޓްރީގެ ކޮޕީ.
• ޖީ.އެސް.ޓީ އަށް ރަޖިސްޓްރީ ކޮށްފައިވާ ފަރާތްތަކުގެ ޖީ.އެސް.ޓީ ރަޖިސްޓްރޭޝަން ކޮޕީ.
• މިނިސްޓްރީ އޮފް ހައުސިންގ އެންޑް އިންފްރާސްޓްރަކްޗަރގައި ކޮންސްޓްރަކްޝަން ކުންފުންޏެއްގެ ގޮތުގައި
ރަޖިސްޓަރީ ވެފައިވާ ކަމުގެ ލިޔުން.
• ދައުލަތަށް ދައްކަންޖެހޭ އެއްވެސް ފައިސާ އެއް ނެތްކަން ހާމަކޮށްދޭ ލިޔުމެއް (މޯލްޑިވްސް އިންލެންޑް
ރެވިނިއު އޮތޯރިޓީ) އިން ހޯދުމަށްފަހު.
4. ބީލަމާއި ގުޅޭ ޕްރީބިޑް ބައްދަލުވުން އަދި އަންދާސީ ހިސާބު ހުށަހެޅުން
• މިމަޝްރޫއުގެ ޕްރީ ބިޑް ބައްދަލުވުން އޮންނާނީ 06 ޖުލައި 2017 ވާ ބުރާސްފަތި ދުވަހުގެ 11:30 ގައި
މިނިސްޓްރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނަރޖީގައެވެ.
• މަސައްކަތާއި ބެހޭގޮތުން މަޢުލޫމާތު ސާފުކުރުމަށް ހަމަޖެހިފައިވަނީ 06 ޖުލައި 2017 އިން 11 ޖުލައި 2017
އާއި ދެމެދު މިނިސްޓްރީގެ އީމެއިލް އެޑްރެސް ކަމަށްވާ procurement@environment.gov.mv އަށް
އީމެއިލް ކުރައްވައިގެންނެވެ. މިމުއްދަތުގެ ފަހުން ކުރެވޭ ސުވާލުތަކަށް ޖަވާބެއް ނުދެވޭނެއެވެ.
• ބިޑު ހުޅުވުމަށް ހަމަޖެހިފައިވަނީ 12 ޖުލައި 2017 ވާ ބުދަ ދުވަހުގެ 11:30 ގައި މިނިސްޓްރީ އޮފް
އެންވަޔަރަންމަންޓް އެންޑް އެނަރޖީގައި މަސައްކަތަށް އަންދާސީ ހިސާބު ހުށަހަޅުއްވާ ފަރާތްތަކުގެ ތެރެއިން މި
ޖަލްސާގައި ބައިވެރިވެވަޑައިންނަވާ ބޭފުޅުންގެ ހާޒިރުގައެވެ.
5. ބީލަމާއި ގުޅޭ އިތުރު މަޢުލޫމާތު
• ބީލަން ހުށައަޅުއްވަން ވަޑައިގަންނަވަން ހަމަޖެހިފައިވާ ދުވަހުގެ ހަމަޖެހިފައިވާ ގަޑީގެ ފަހުން ހުށައަޅާ
ބީލަންތަށް ބަލައެއް ނުގަނެވޭނެއެވެ.
• ހުށައަޅާ ބީލަން ތަކަށް މަދުވެގެން 90 ދުވަހުގެ ވެލިޑިޓީއެއް ދޭންވާނެއެވެ.
• މަސައްކަތް ފެށުމަށްޓަކައި ކޮންޓްރެކްޓަރަށް 15 އިންސައްތަޔަށް ވާ އަދަދުގެ އެޑްވާންސް ޕޭމަންޓަކަށް
އެދެވިދާނެއެވެ. އެޑްވާންސް ޕޭމަންޓް ރައްދުކޮށްދެވޭނީ މާލިޔައްތު ޤާވާދުގައިވާ ގޮތަށް އޭގެ މިންގަ ނޑުތަކަށް
ބަލައިގެންނެވެ.
• މުޅި މަސައްކަތުގެ 5 (ފަހެއް) އިންސައްތަޔަށް ވާ ފައިސާ ރިޓެންޝަންގެ ގޮތުގައި 6 (ހައެއް) މަސްދުވަހުގެ
މުއްދަތަކަށް ހިފެހެއްޓޭނެއެވެ.
6. މަސައްކަތާއި ބެހޭ އިތުރު މަޢުލޫމާތު
• މަސައްކަތް ކުރަން ޖެހޭ ބިމުގައި ކުންޔެއް ނުހުންނާނެއެވެ.
6 ޞަފްޙާގެތެރެއިން ޞަފްޙާ 5

• މިހާރު ކުނި އަޅަމުންދަނީ މަސައްކަތް ކުރަން ޖެހޭ ސަރަޙައްދު ކައިރިއަށެވެ.
• މަސައްކަތް ކުރަން ޖެހޭ ސަރަޙައްދަށް ދެވޭނެ މަގެއް އޮންނާނެއެވެ.
• މަސައްކަތް ކުރަންވާ ސައިޓުގައި ކަރަންޓު އަދި ފެނުގެ ޙިދުމަތް ލިބޭކަށް ނުހުންނާނެއެވެ.
• ކުނި މެނޭޖުކުރާ މަރުކަޒަށް ކަރަންޓުލުމުގެ މަސައްކަތް ކުރުމަށް ހަމަޖެހިފައިވަނީ 25 އަކަ މިލިމީޓަރުގެ
ފުޅާމިނުގެ ކޭބަލުންނެވެ.
• އެޑްވާންސް ޕޭމަންޓް ފައިސާ ލިބޭނީ މިނިސްޓްރީ އޮފް ފިނޭންސް އެންޑް ޓްރެޜަރީގެ ހުއްދައާއި އެކުއެވެ.
*މި ބީލަން ފޮތުގައިވާ ފޯމް 3 ،2 ،1 އަދި 4 ކޮންމެހެން ފުރިހަމަ ކުރަންޖެހޭނެއެވެ.
6 ޞަފްޙާގެތެރެއިން ޞަފްޙާ 6

ފޯމް 1: ކޮންޓްރެކްޓަރުގެ ޕްރޮޕޯސަ ލް
ބީލަން ހުށަހަޅާ ފަރާތުގެ ފުރިހަމަ ނަން:)ކުންފުންޏެއް ނަމަ މިނިސްޓްރީ
އޮފް އިކޮނޮމިކް ޑިވޮލޮޕްމަންޓްގައި ކުންފުނި ރެޖިސްޓްރީ ކުރެވިފައިވާ
ގޮތަށް(
އައި.ޑީ ކާޑް ނަންބަރު/ކުންފުނީގެ ރެޖިސްޓްރޭޝަން ނަންބަރު
1. އަޅުގަނޑަކީ/މިކުންފުންޏަކީ މިބީލަމުގައި ބަޔަންކޮށްފައިވާ ބާވަތުގެ މަސައްކަތްކުރާ މީހަކީމެވެ/ކުންފުންޏެކެވެ.
2. ކޮންސްޓްރަކްޝަން މަސައްކަތް ކުރާ ބައެއްގެ ގޮތުގައި އަޅުގަނޑު/ކުންފުނި ހަރަކާތްތެރިވާތާ .... އަހަރު
ވެއްޖެއެވެ.
3. ބީލަމުގައި ބަޔާންކުރެވިފައިވާ މަސައްކަތްތައް ކުރުމަށް ތިރީގައި ބަޔާންކުރެވިފައިވާ މީހުން ފޯރުކޮށްދެވޭނެއެވެ.
ސްޕަރވައިޒަރ
އިންޖިނިއަރުން
ވެލްޑަރުން
ރާނާ މީހުން
ވަޑިން
މަސައްކަތު މީހުން (އެހީތެރިން)
(އެ މަސައްކަތަކާއި ގުޅޭ ގޮޅީގައި ރަނގަޅު ފާހަގަ  ޖައްސަވާށެވެ.)

ފޯމް 2: މަސައްކަތުގެ ތާވަލް
މަސައްކަތް މުޅިން ނިންމުމަށް ހުށަހަޅާ މުއްދަތު:
ހަފްތާ
މުއްދަތު
މަސައްކަތްތައް ފެށޭ ތާރީޙް ނިންމާ ތާރީޙް
(ދުވަސް) 10 9 8 7 6 5 4 3 2 1
ސައިޓް ސާފު ކުރުން
ތަކެތި ހޯދުން
ކޮނުމުގެ މަސައްކަތް
ކޮންކްރީޓް މަސައްކަތް
ރޭނުމުގެ މަސައްކަތް
ސިމެންތި ޖެހުމުގެ މަސައްކަތް
ކުލަ ލުމާއި ދަވާދުލުމުގެ މަސައްކަތް
ފުރާޅު މަސައްކަތް
ދަގަނޑުގެ މަސައްކަތް

ކަރަންޓުގެ މަސައްކަތް
ފެންވައިރިންގ މަސައްކަތް
ދޮރުތަށް ހެދުމާއި ހަރުކުރުން
ނޯޓް: ތާވަލްގައި ވަގުތު ހިމަނާނީ ބީލަމުގައި ހިމެނިފައިވާ މަސައްކަތްތަކަށް އެކަންޏެވެ.

ފޮށި 3: ކަސަރަތްތެރި ތަކެ

CONSTRUCTION OF WASTE MANAGEMENT CENTRE - GA. VILLINGILI
Bill of Quantities

No	Item	Unit	Quantity	Rate	Amount
1	**Preliminaries**				
1.1	Mobilization to site	LS	1		
1.2	Site management cost including set up of temporary services for contractor's services as maybe necessary	LS	1		
2	**Site Clearance**				
2.1	All site clean up work including removal of vegetation and relocation of existing waste to a temporary location identified by island council	LS	1		
3	**Earth works**				
	Allow for all excavation work for foundations as follows				
3.1	Collection bay isolated footings	m3	3.24		
3.2	Collection Bay wall footing	m3	16.11		
3.4	Flood light pole	m3	0.13		
3.5	Ground levelling works for ground slab works	m2	725.00		
3.6	Leachate collection tank	m3	6.00		
3.7	Setting up a ground water well in the location shown	LS	1		
4	**Concrete works**				
	Collection Bay Area				
4.1	Provide 100mm concrete floor screed for collection bay area according to the slope shown in drawing with a drain at the Sorting Area. Reinforcement for the slab shall be R6@150 BW single layer	m3	46.98		
4.2	Wall Footing of Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing	m3	4.03		
4.3	Lintel for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	1.34		
4.4	Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	20.66		

4.5	Isolated Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	2.295		
	Compost Slab				
4.6	Compost slab panels cast according to the slopes shown on drawing. Reinforcement shall be as shown on drawings.	m3	22.50		
4.7	B1 beams of compost slab cast according to drawing. Reinforcement shall be as shown on drawing.	m3	5.96		
4.8	B2 beams of compost slab cast according to drawing. Reinforcement shall be as shown on drawing.	m3	2.92		
4.9	B3 beams of compost slab with a mortar layer at an adequate slope, cast according to drawing. Reinforcement shall be as shown on drawing. Rate shall include reinforcement work, formwork, casting and mortar works.	m3	2.25		
4.10	Leachate collection tank with primary and secondary tanks as shown on drawing. Rate shall include all formwork, casting and placing of the tank	LS	1		
	Other				
4.11	Foundation for flood light pole	m3	0.29		
4.12	Ground water well casting work	LS	1		
5	**Structural steel works**				
	Collection Bay Area				
5.1	Provide 75mm G.I pipe as structural columns for collection bay area. Rate shall include all fixings at both ends of the pipe for necessary connections as shown on drawing	Nos	42		
	Other				
5.2	Provide 75mm G.I pipe as flood light fixing poles. Rate shall include installation charges as shown on drawing.	Nos	2		
6	**Masonry works**				
	Collection Bay Area walls of thickness 150mm				
6.1	Masonry works for Collection Bay Walls	m3	13.19		
7	**Plastering works**				
	Collection Bay Area				
7.1	25mm plastering Collection Bay Walls	m2	181.43		
8	**Painting works**				
	Collection Bay Area Walls				

8.1	Apply emulsion paint coating on Collection Bay walls	m2	181.43		
8.2	Apply emulsion paint coating on columns of Collection Bay	m2	105.84		
	Steel Members				
8.3	Apply emulsion paint coating on G.I columns of collection bay	LS	1		
8.4	Apply emulsion paint coating on the roof trusses, rafters and purlins	LS	1		
8.5	Apply paint coating on the metal sliding door of the Hazardous waste storage room	LS	1		
8.6	Apply paint coating on the two metal folding doors of the equipment room	LS	2		
8.7	Apply emulsion paint coating on G.I members and MS Sheets of gates	LS	1		
	Other				
8.8	Apply paint coating on flood light pole	LS	2		
8.9	Apply emulsion paint coating on the removable timber covers of the leachate collection tanks	LS	2		
9	**Roofing works**				
9.1	TR1 Truss as shown on the drawing at 3m c/c. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and setting up the truss	m	180.00		
9.2	TR2 Truss as shown on the drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and setting up the truss	m	125.00		
9.3	Provide 38mm diameter G.I Pipe at 2m c/c over truss as rafters. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and setting up the rafters.	m	250.00		
9.4	Provide 25mm diameter G.I Pipe at 1m c/c over rafters as purlins. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and setting up the purlins.	m	500.00		
9.5	Lysaght roofing sheet for Collection Bay Area. Rate shall include all necessary laps, fastening, fixtures and sealing of joints	m2	555.44		
10	**Electrical works**				
	Collection Bay Area				

10.1	Provide 3 phase 13A power sockets in equipment room. Rate shall include connection to circuit breaker using 10 square mm wire and all necessary accessories	Nos	6		
10.2	Provide 100W ceiling mount energy saving light as shown in the drawing, provide the switches near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker	Nos	9		
10.3	Provide and mount a Ceiling fan inside the Equipment Room as indicated. Rate shall include provision of switch near the circuit breaker inside the equipment room, connection to circuit breaker and all necessary accessories	Nos	1		
10.4	Supply and fix electric meter, 4 pole MCCB, Single Phase distribution board and 3 Phase distribution board as shown on drawing. Earth link and connection to earth rod with proper earth pit should be provided as well	LS	1		
10.5	Provide and mount a exhaust fan inside the Hazardous Waste Storage Room. Rate shall include provision of switch near the circuit breaker inside the equipment room, connection to circuit breaker and all necessary accessories	LS	1		
10.6	Provide 25 sqmm 4 core power supply cable from nearest existing distribution box to waste yard distribution board	m	150		
	Other				
10.7	Provide 13 A power socket for well water pump inside the Equipment Room, provide the switch for the pump near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker.	Nos	1		
10.8	Provide 200 W flood light for illuminating the waste yard. Rate shall include connecting each light to a switch near circuit breaker inside the equipment roomand providing power to the switch	Nos	2		
10.9	Provide well water pump. Rate shall include its fixing inside the Equipment Room	Nos	1		
11	**Plumbing works**				
11.1	Provide connection from pump to ground water well. Rate shall include all necessary pipes, bends, fittings and footvalve and others as maybe required.	LS	1		

11.2	Provide outlet pipes as shown on drawing. Rate shall include connection to pump, bends, fittings and others as maybe necessary.	LS	1		
11.3	Provide PVC taps at ends of outlet pipes.	Nos	3		
11.4	Supply 25mm diameter flexible hose	m	25.0		
12	**Doors and windows**				
	Metal Doors				
12.1	Provide lockable metal sliding gates for entrance to hazardous waste storage room. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the door and proper fixing of the door. Rate shall include fabrication and fixing of guide rails and wheels as well.	Nos	1		
12.2	Provide lockable metal folding gates for entrance to Equipment room. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the door and proper fixing of the door. Rate shall include fabrication and fixing of guide rails and wheels as well.	Nos	2		
12.3	Provide lockable metal gates for entrance to waste yard as specified in the drawing. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the frame and properly fixing the door to the fence.	Nos	2		
	Timber Doors				
12.4	Provide a lockable timber door of dimensions 1000mm x 1000mm with double door frames and fixed timber louvers for the ground water pump room hut. Rates shall include all materials, hinges and fixings.	Nos	1		
13	**Other Works**				
	Collection Bay Area				
13.1	Provide a 5" vinyl roof gutter with 2" x 3" downspout. Rates shall include all materials and fastenings.	LS	1		
	Compost Slab				
13.2	Provide HDPE membrane below compost slab and collection bay floor slab	m2	725.00		
13.3	Provide expansion joint in slab and fill the joint with polyethylene joint filler form and silicone as shown on drawing	m	40.00		
13.4	Provide two timber removable covers for the leachate collection tank of size 1000x2000mm. Rates shall include all materials, fastenings and handles.	LS	2		

13.5	Connection of compost slab drain to primary tank of the leachate tank including ball valve	LS	1		
13.6	Covering the 1.5m gap between the roof and masonry walls around the walls indicated in the drawing using Lysaght Sheets	m	91.00		
14	**Demobilisation Works**				
14.1	Setup sign boards on site as specified	LS	1		
14.2	Clean up site upon completion of works	LS	1		
14.3	Demobilization	LS	1		
				TOTAL	

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CONSTRUCTION OF WASTEMANAGEMENT CENTRE - GA. VILLINGILI
Bill of Quantities
SUMMARY SHEET

Bill No	Item	Amount
1	Preliminaries	
2	Site clearance	
3	Earth works	
4	Concrete works	
5	Structural steel works	
6	Masonry works	
7	Plastering works	
8	Painting works	
9	Roofing works	
10	Electrical works	
11	Plumbing works	
12	Doors and windows	
13	Other Works	
14	Demobilisation	
	Sub Total	
	GST 6%	
	GRAND TOTAL	

ޖަދުވަލް 1 : ކުންފުނި ރަޖިސްޓްރޭޝަން އަދި ޖީ.އެސް.ޓީ ރެޖިސްޓްރޭޝަން
ސެޓްފިކެޓް / ދިވެހި ރައްޔިތެއްކަންއަންގައިދޭ ކާރޑްގެ ކޮޕީ

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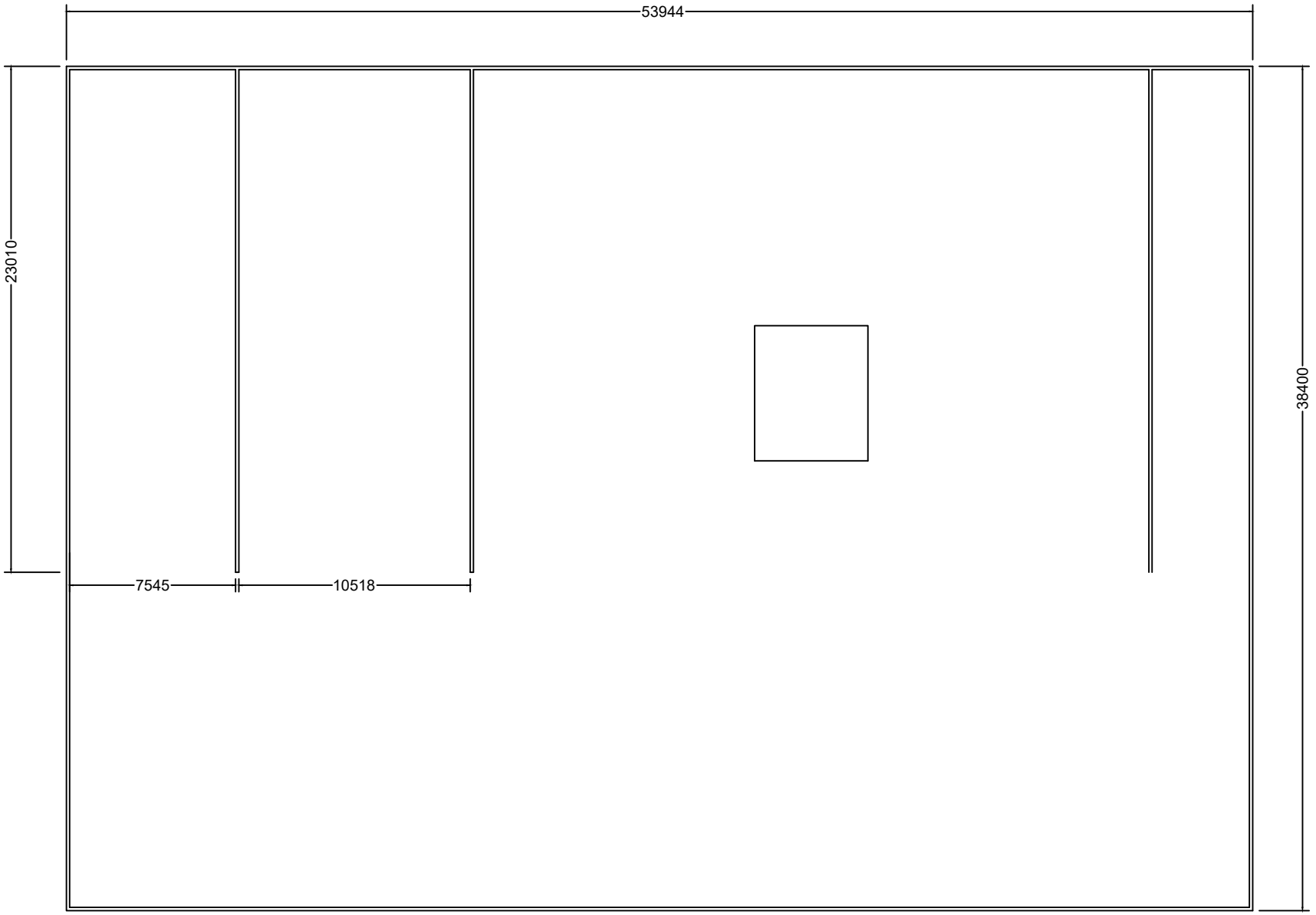
PROJECT:

CONSTRUCTION OF AN ISLAND WASTE MANAGEMENT CENTRE GA. VILLINGILI

PREPARED BY:

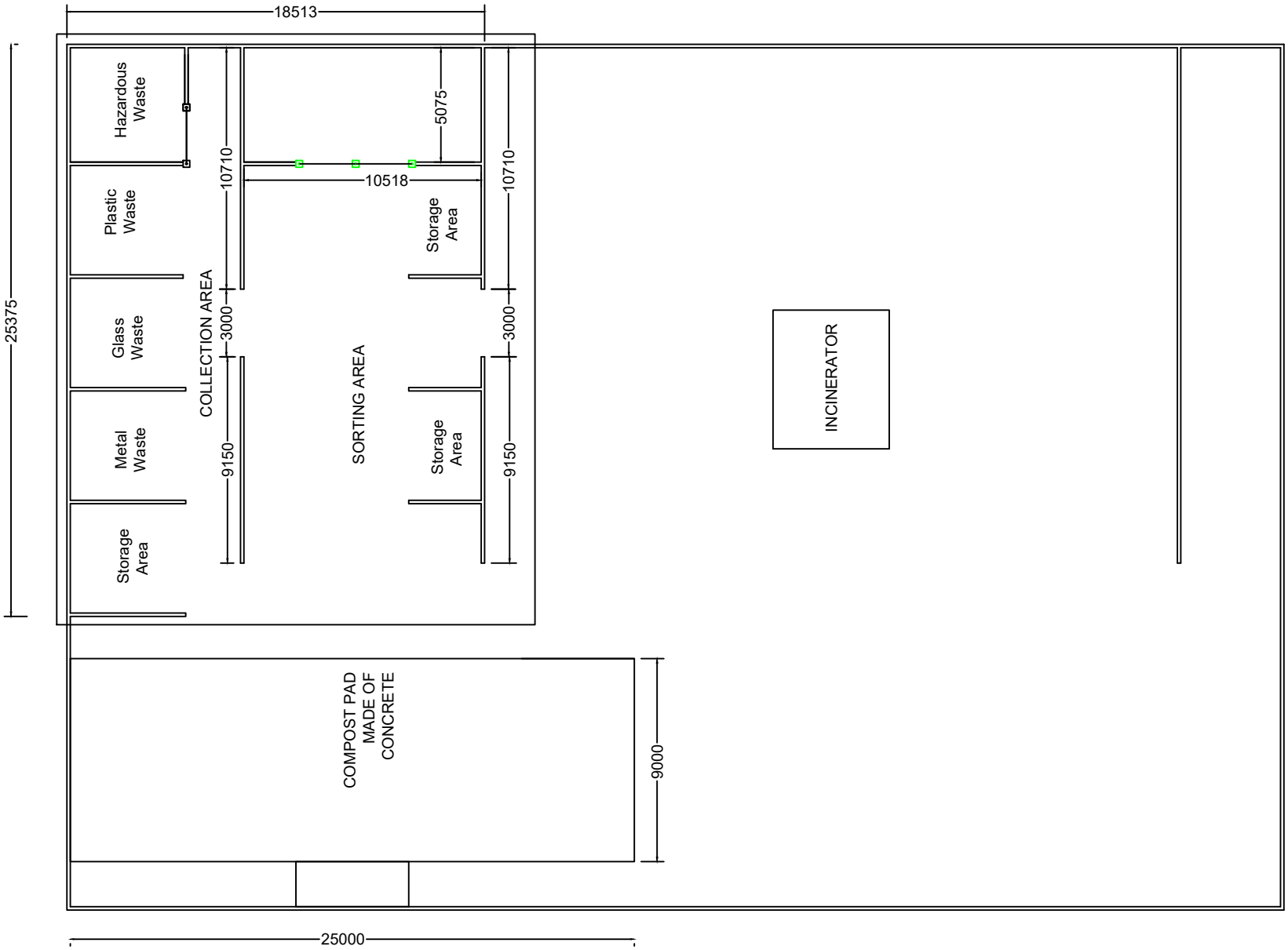
WASTE MANAGEMENT AND POLLUTION CONTROL DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY

June 2017



EXISTING SITE LAYOUT

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301



PROPOSED SITE LAYOUT

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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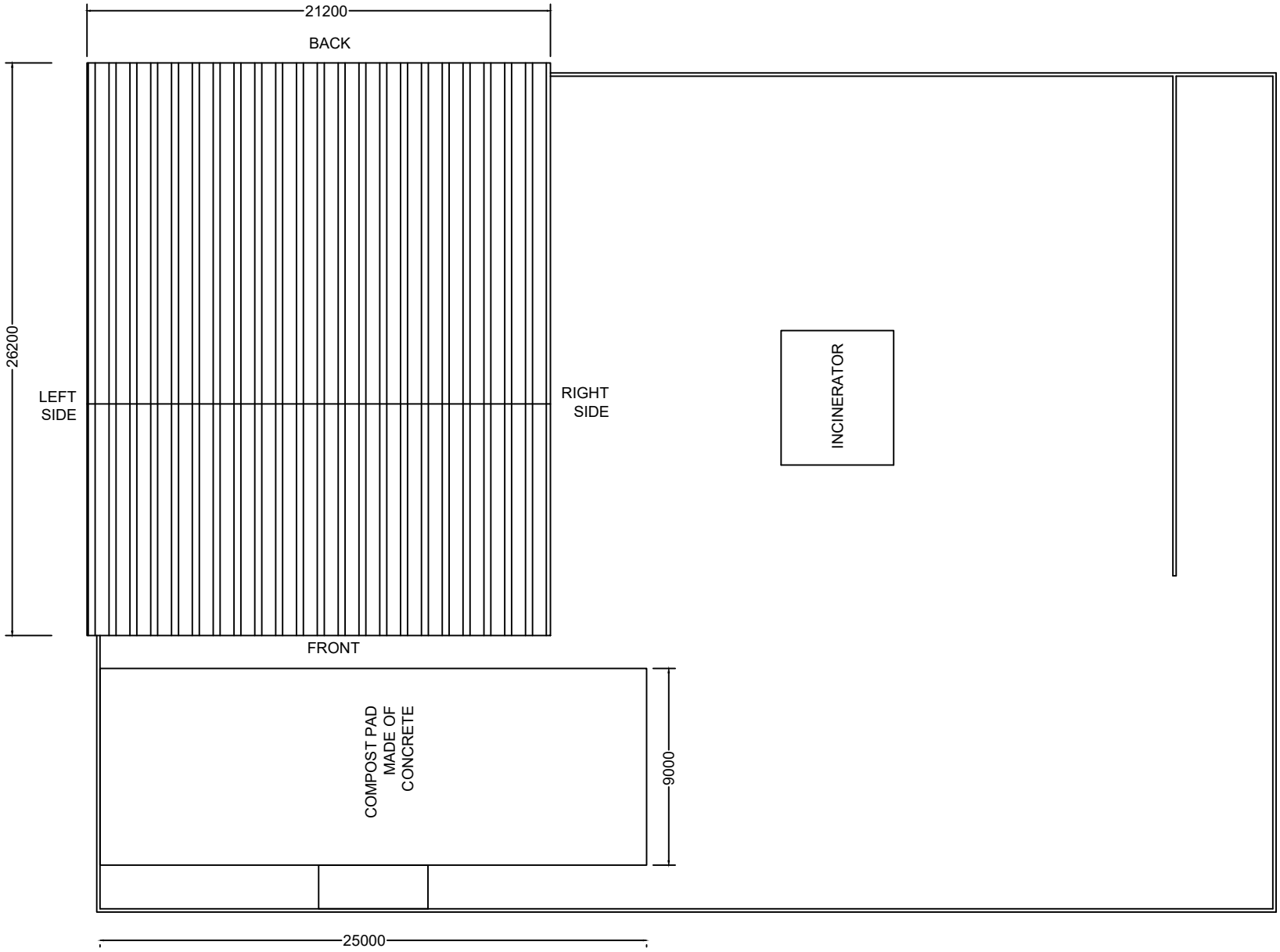

COLLECTION BAY - PLANS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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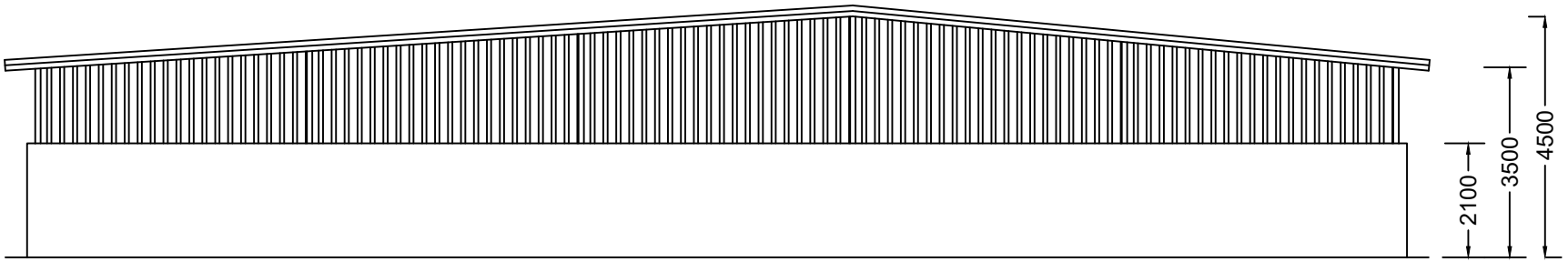
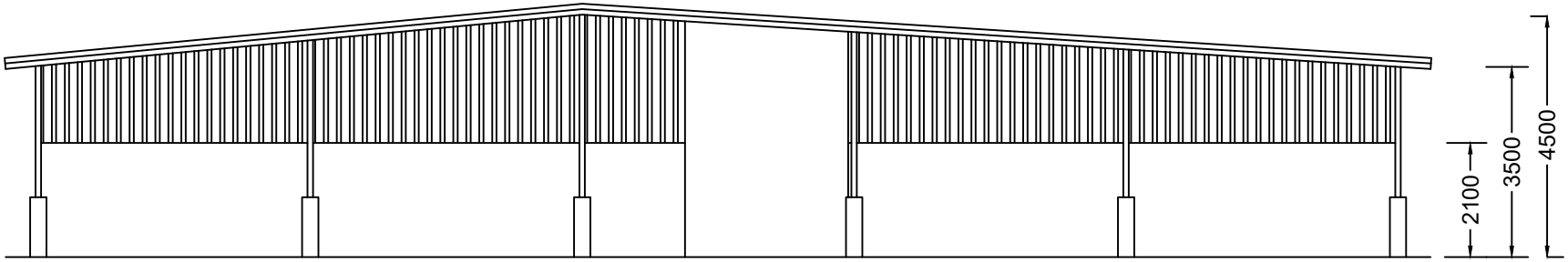
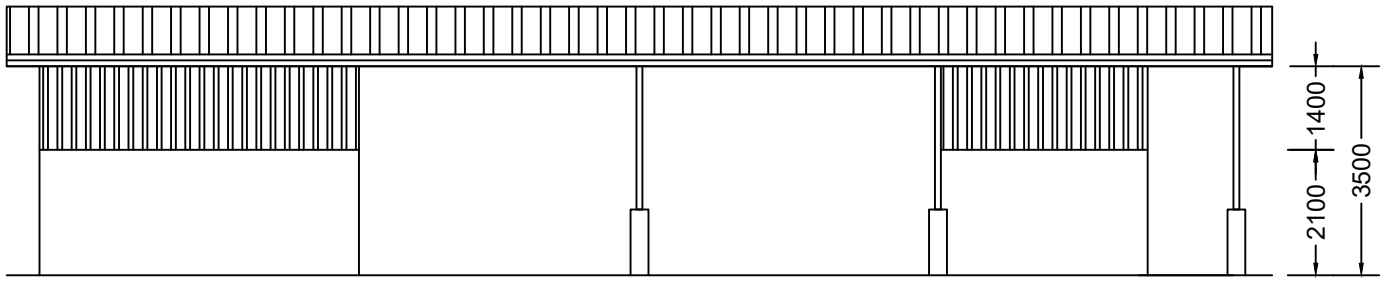


LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



FRONT ELEVATION

ELEVATIONS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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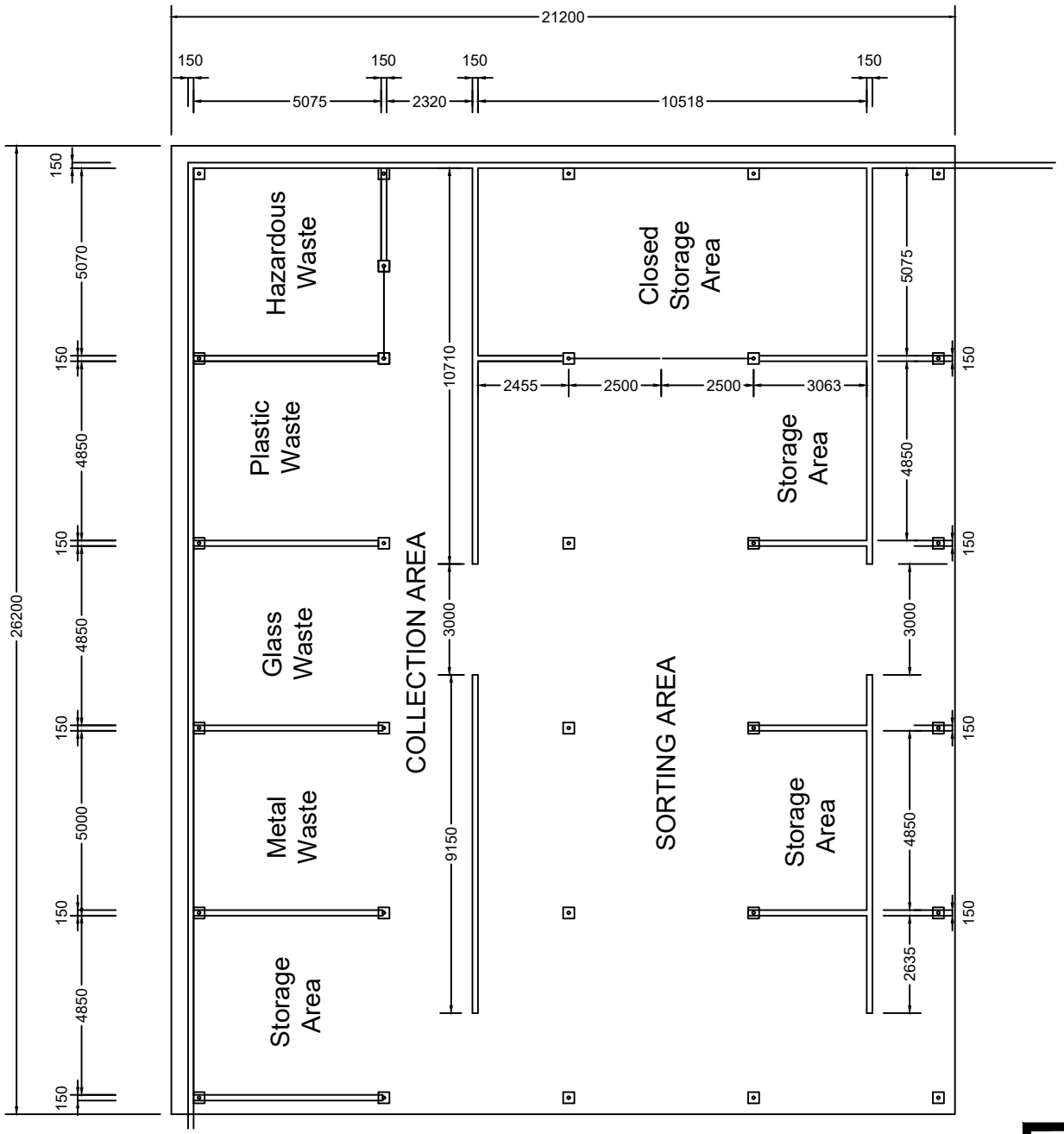

FLOOR PLAN

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALÉ (20392), REPUBLIC OF MALDIVES
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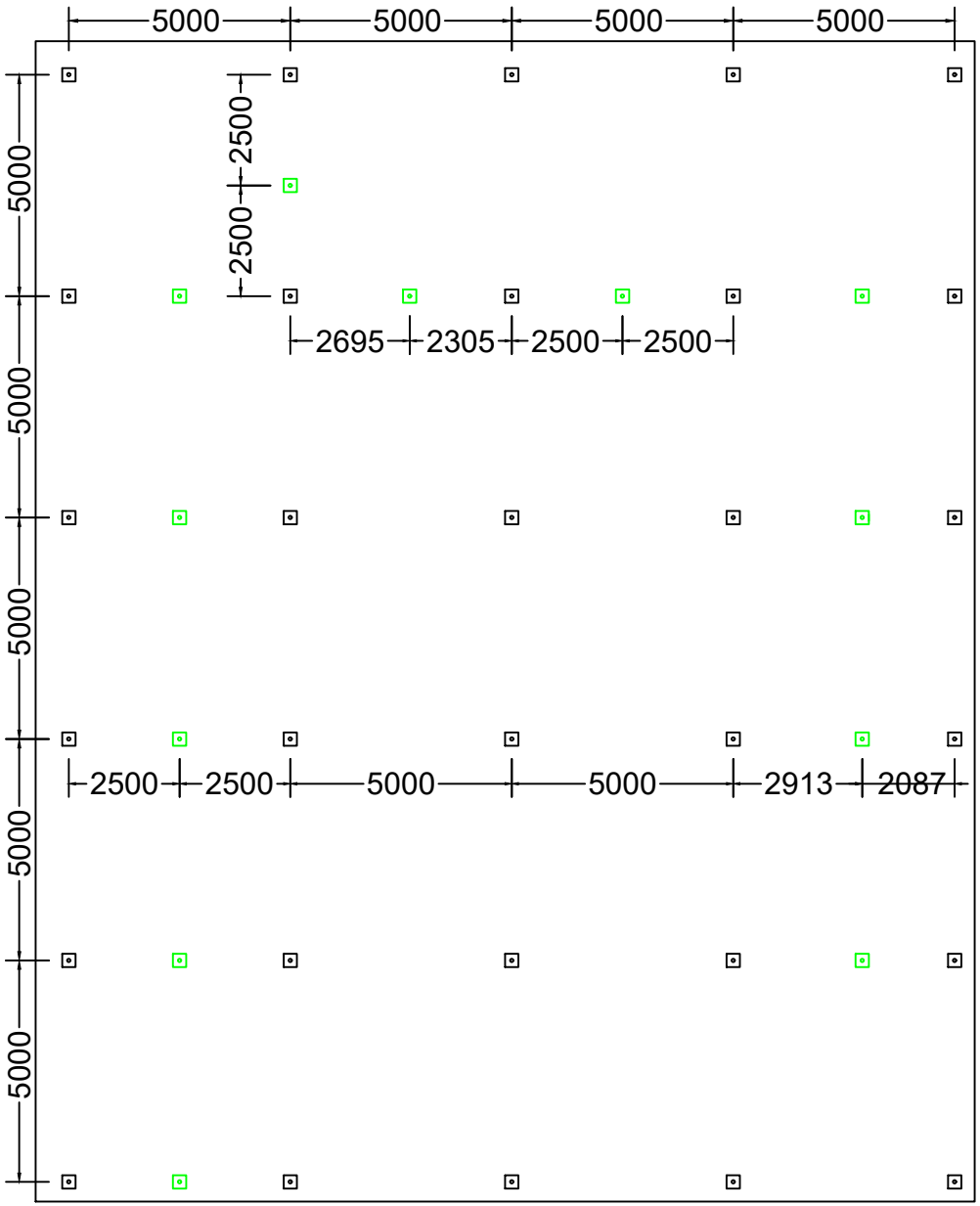

FOUNDATION PLAN - COLUMNS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
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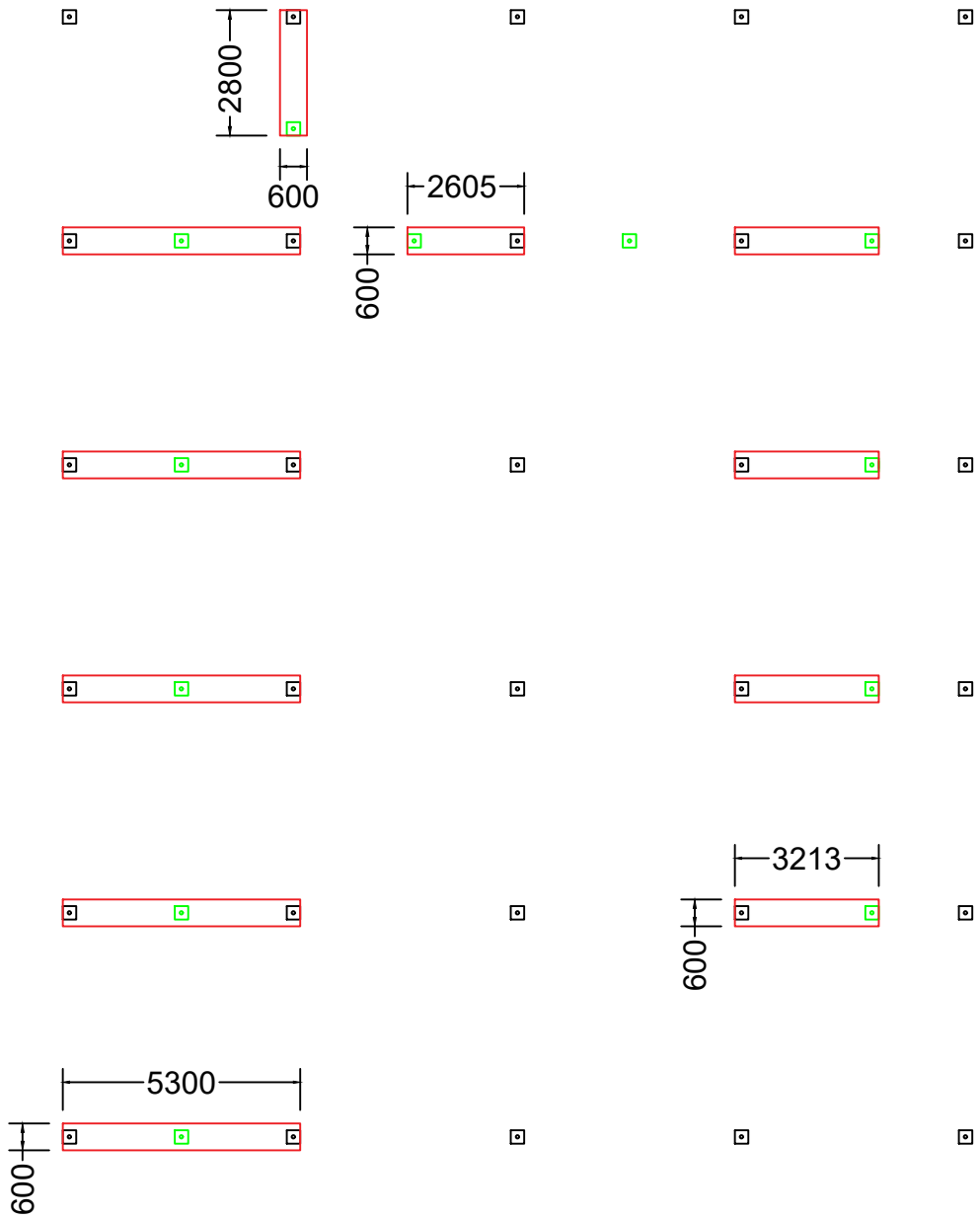

FOUNDATION PLAN - GROUND BEAMS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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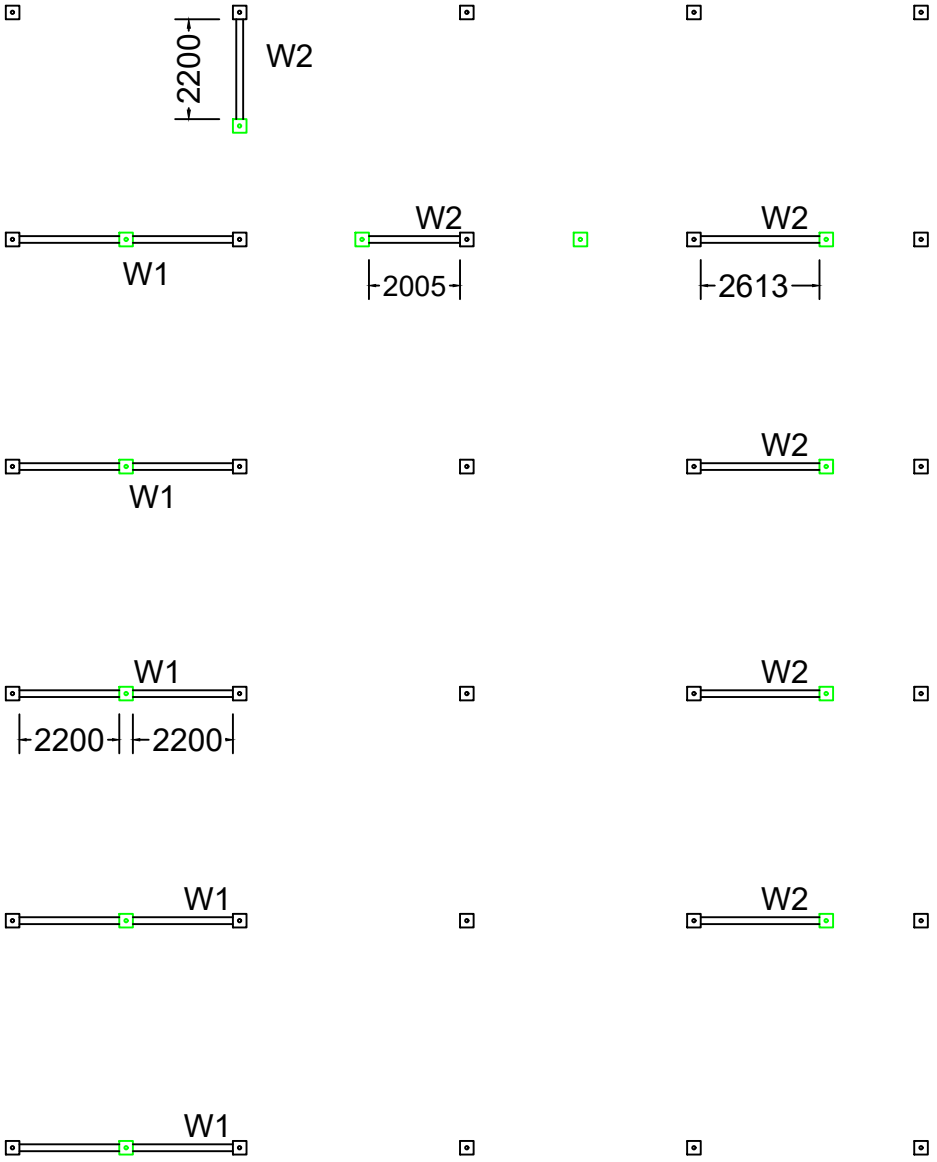

MASONRY WALL DETAILS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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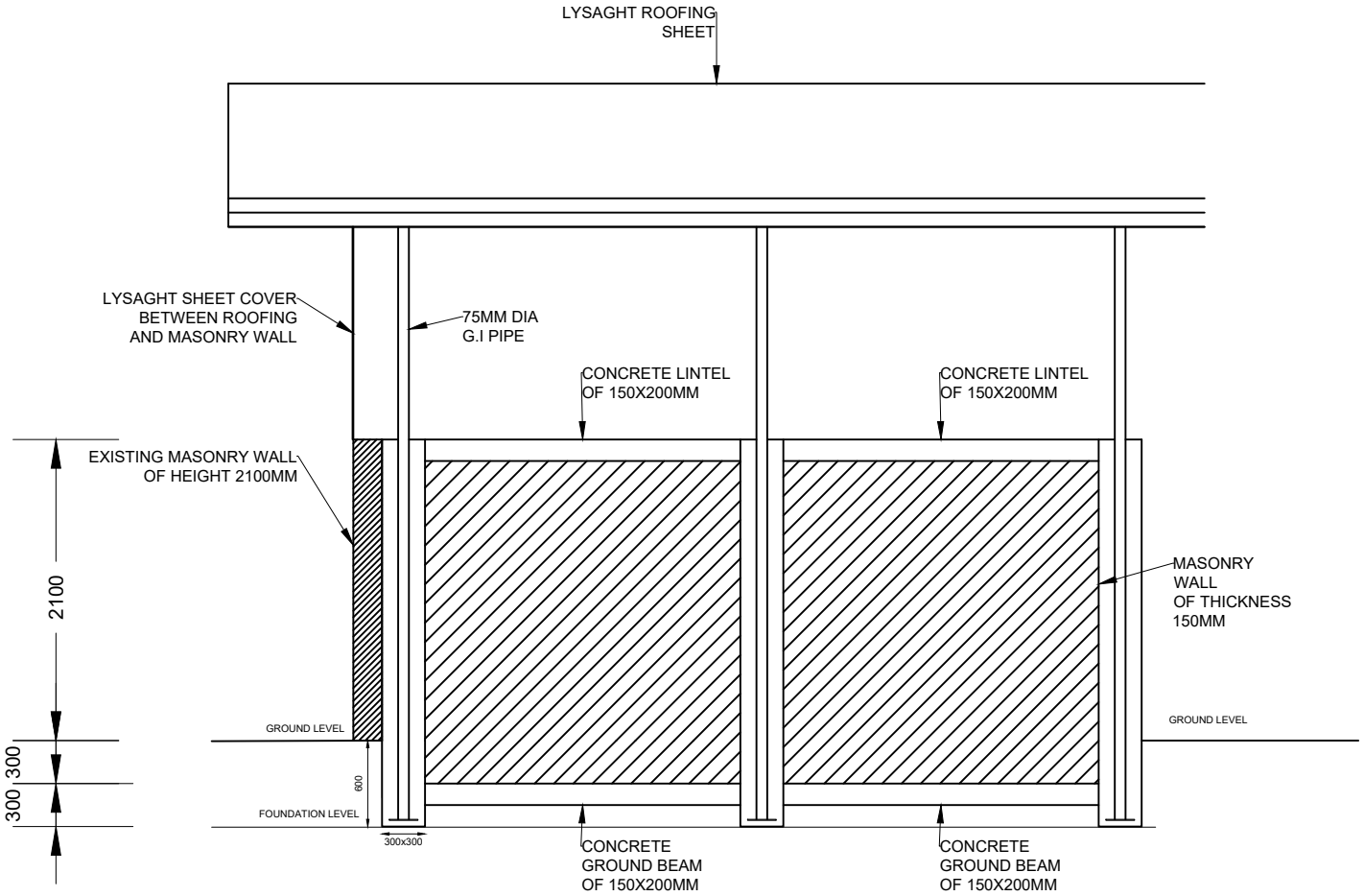

W1 DETAILS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALÉ (20392), REPUBLIC OF MALDIVES
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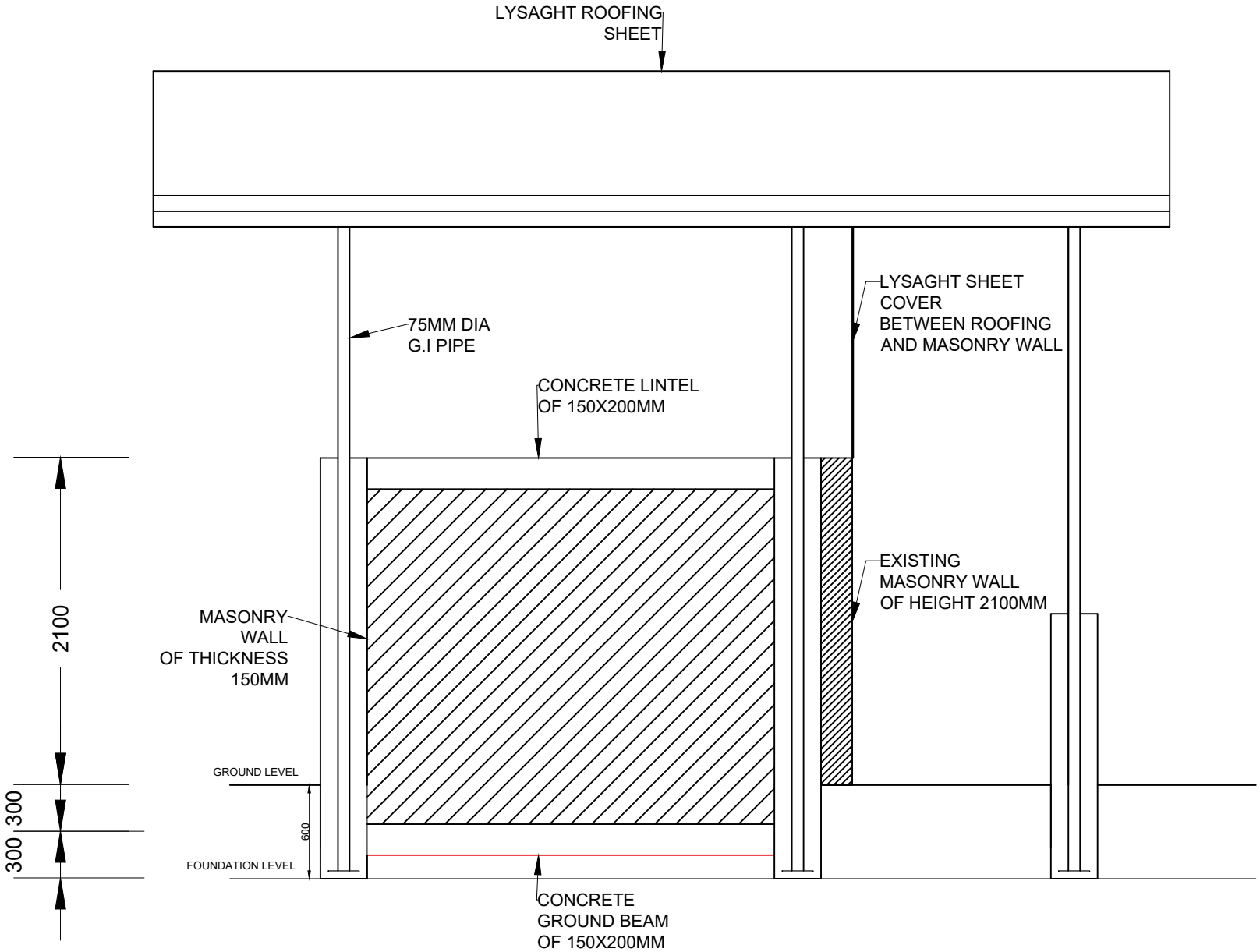
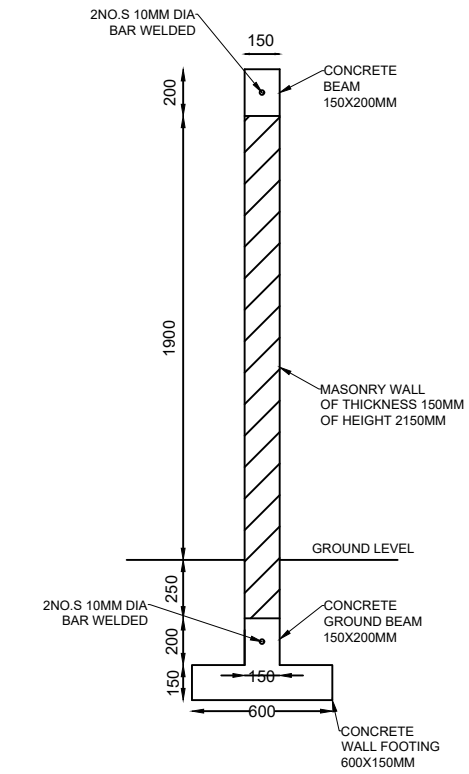
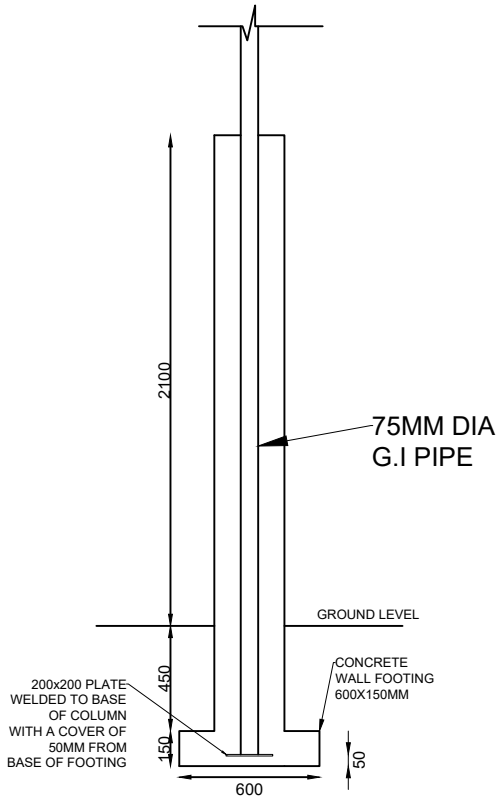


W2 DETAILS

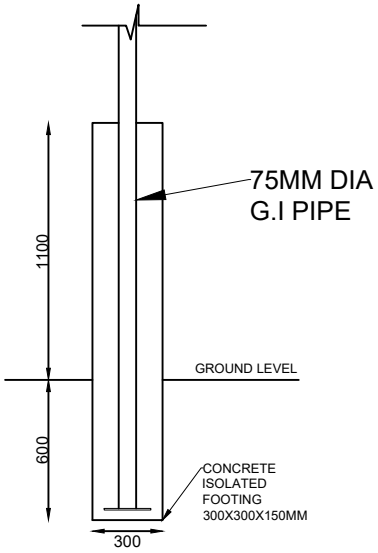
WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301



BEAMS AND WALL FOOTING DETAILS



WALL COLUMN DETAILS



ISOLATED COLUMN DETAILS

WALLS AND COLUMNS DETAILS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
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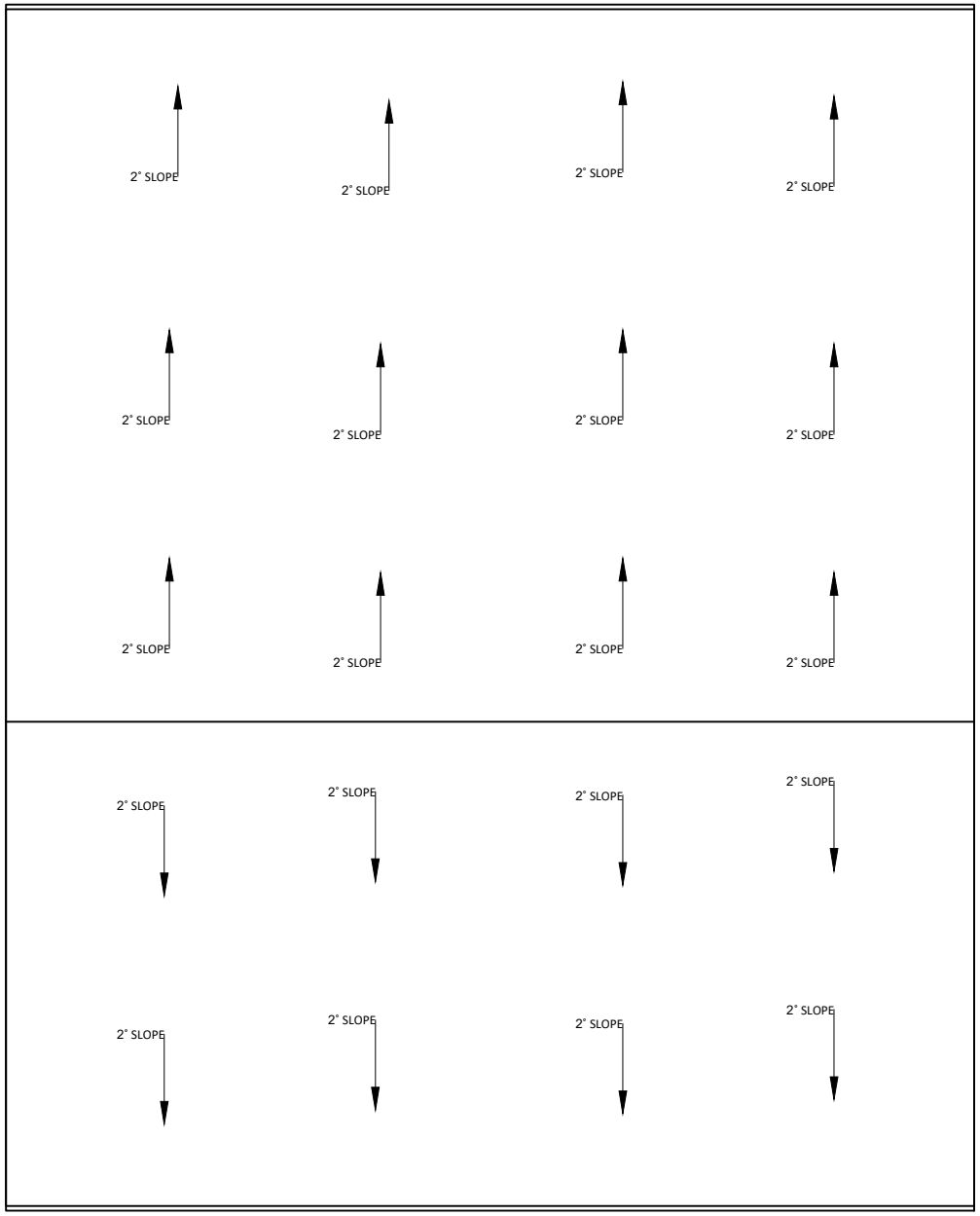

ROOF SLOPE

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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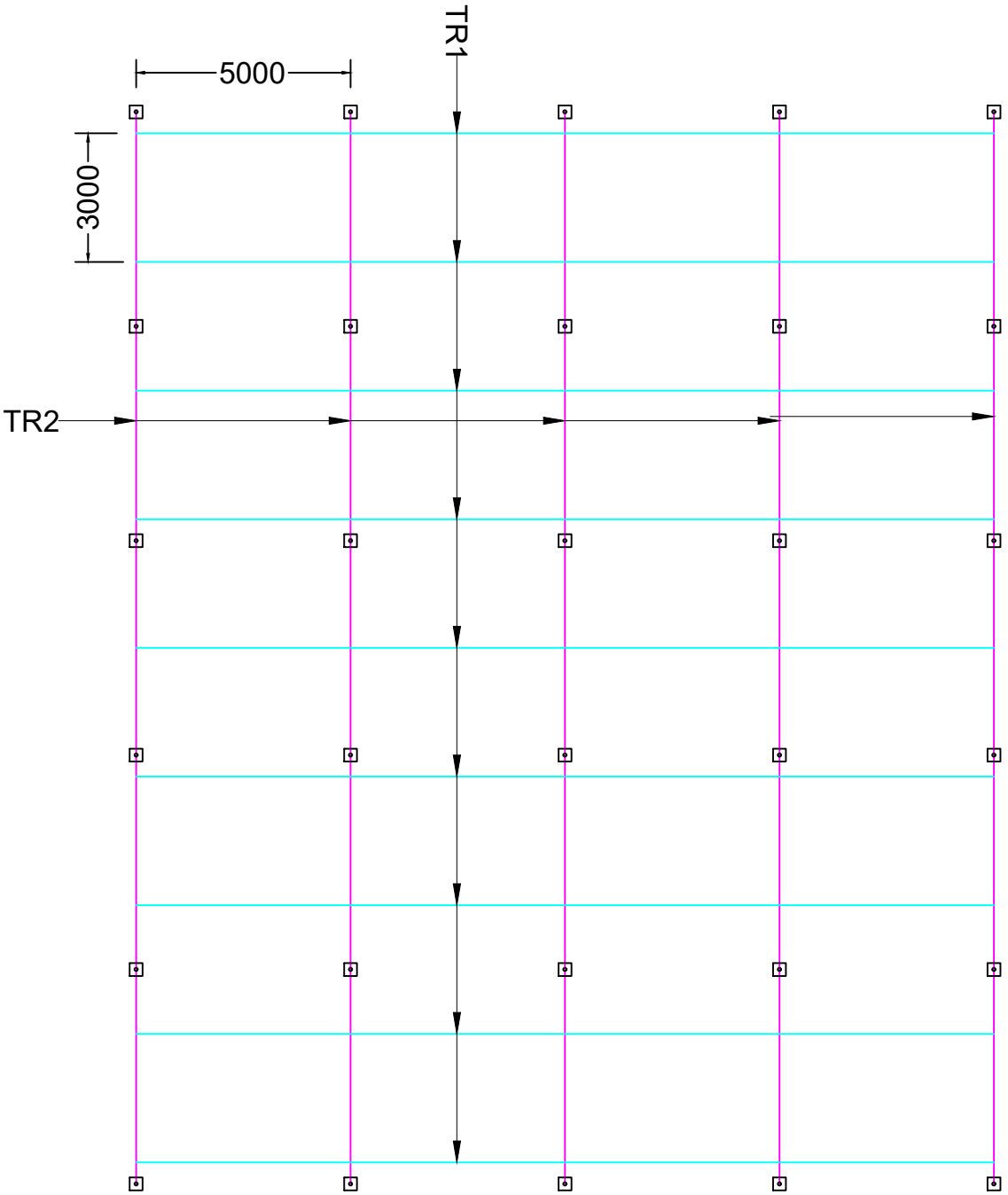
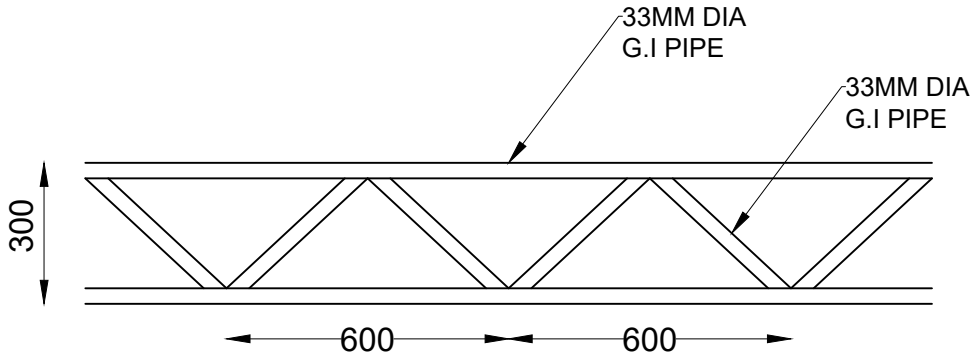


ROOF FRAMING PLAN

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301

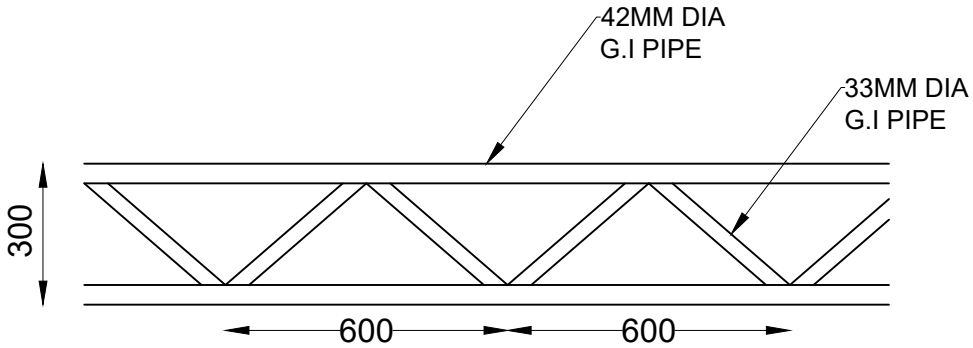


TR1 TRUSS

*Provide TR1 TRUSS @3m c/c

*Provide 38mm Dia G.I Pipe @ 2m c/c over truss as rafters

*Provide 25mm Dia G.I Pipe @ 1m c/c over rafters as purlins



TR2 TRUSS

ROOF FRAMING PLAN

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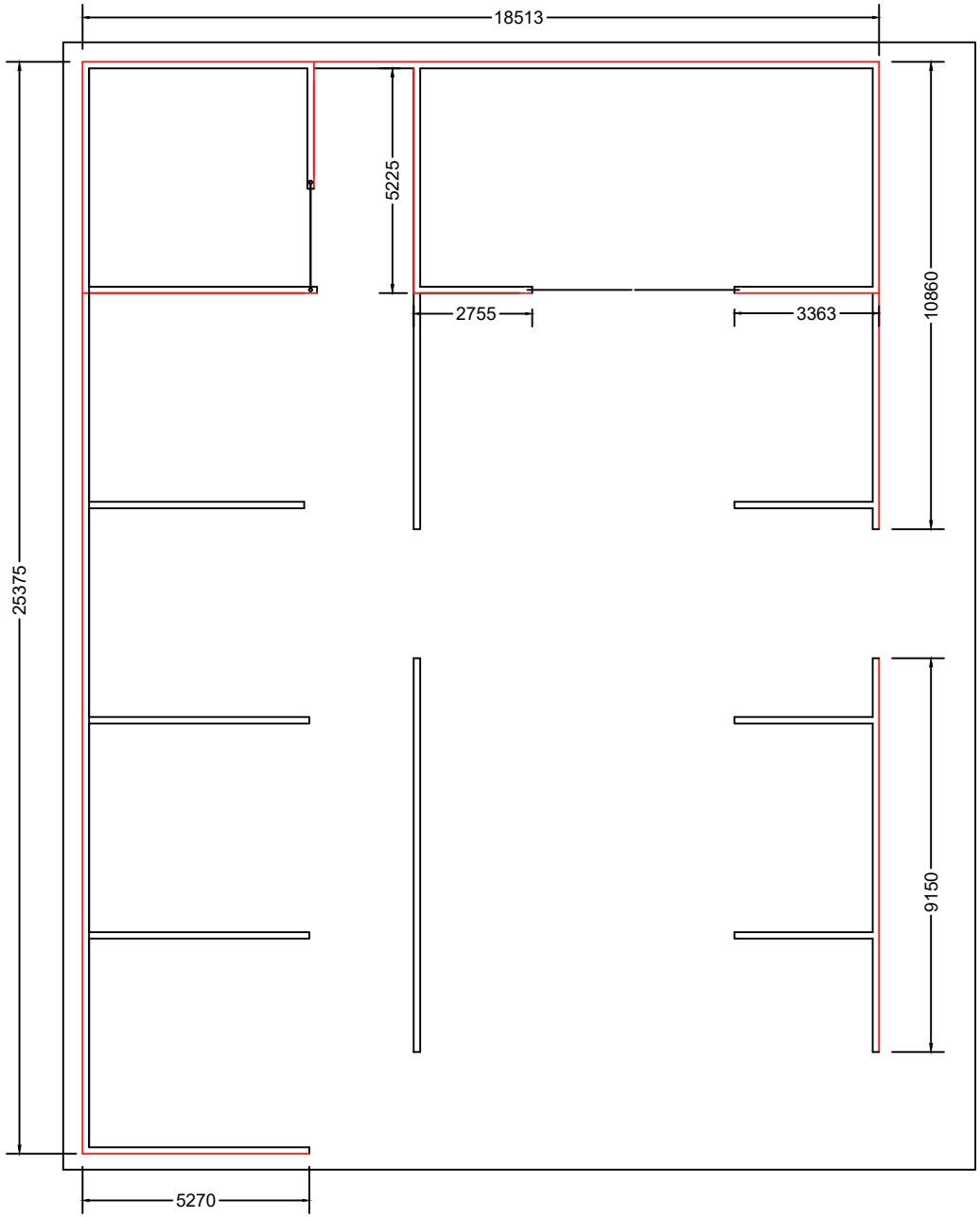
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301



LYSAGHT COVER BETWEEN ROOF AND WALLS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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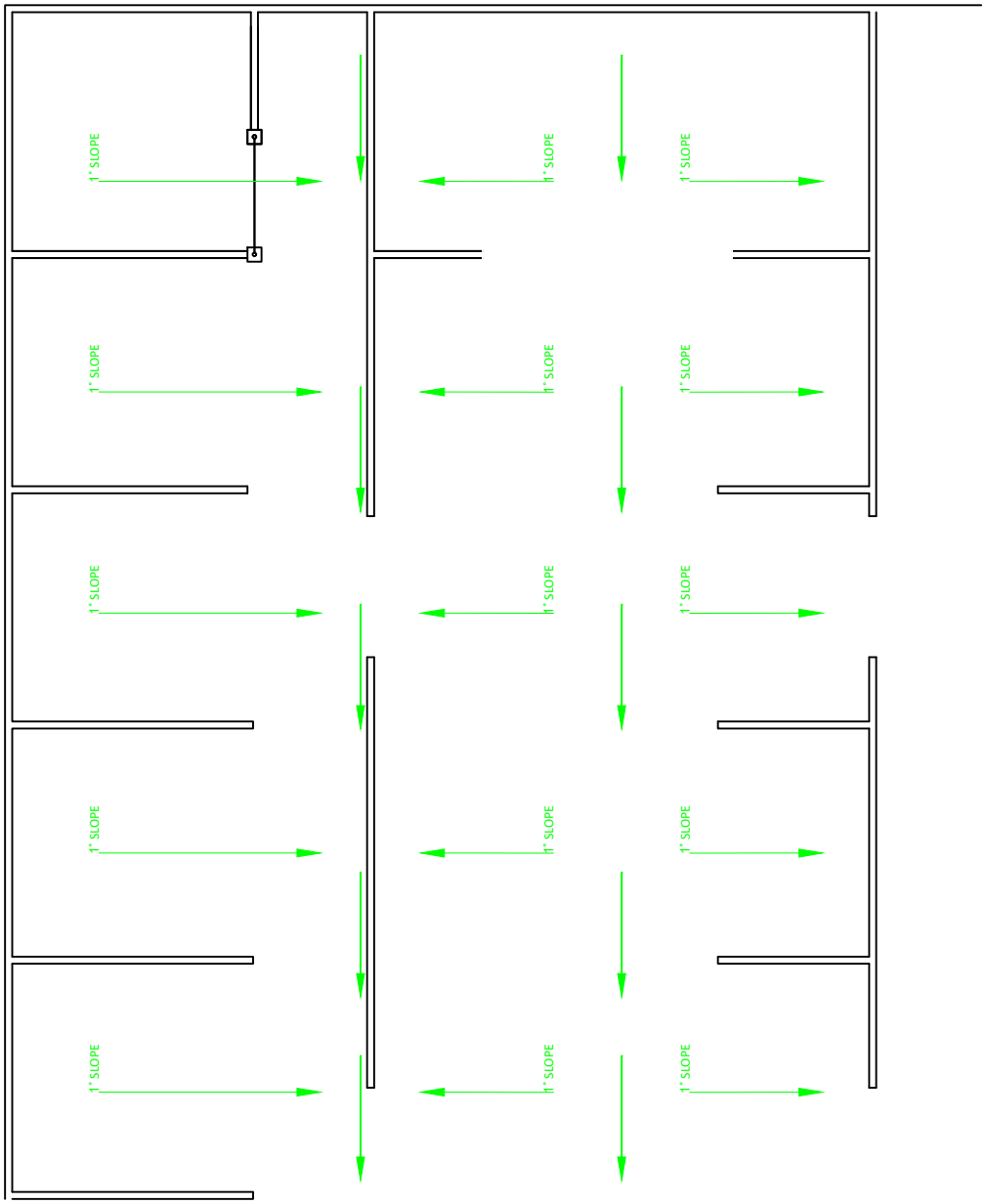

FLOOR AREA SLOPE AND EXPANSION JOINTS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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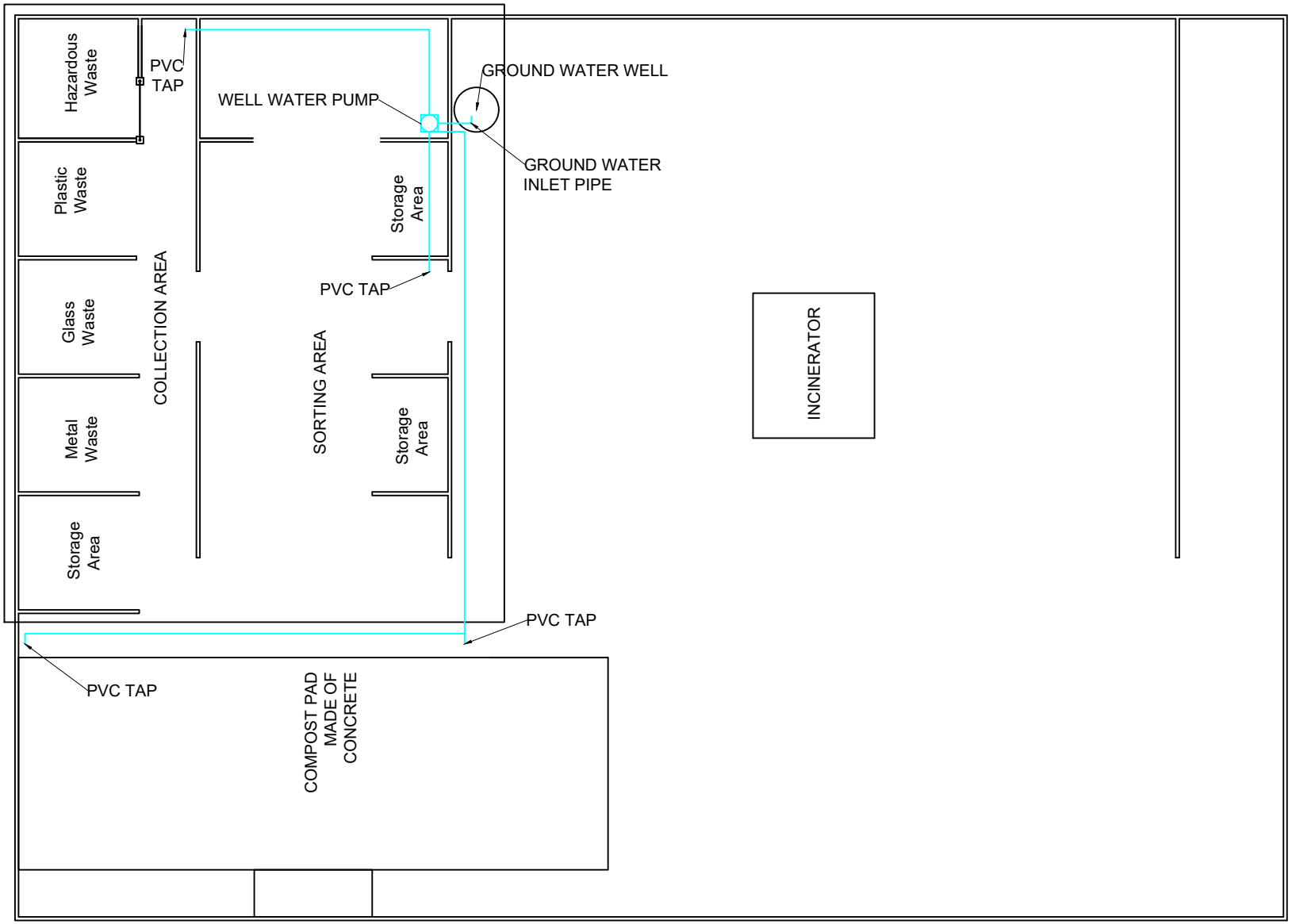

PLUMBING DETAILS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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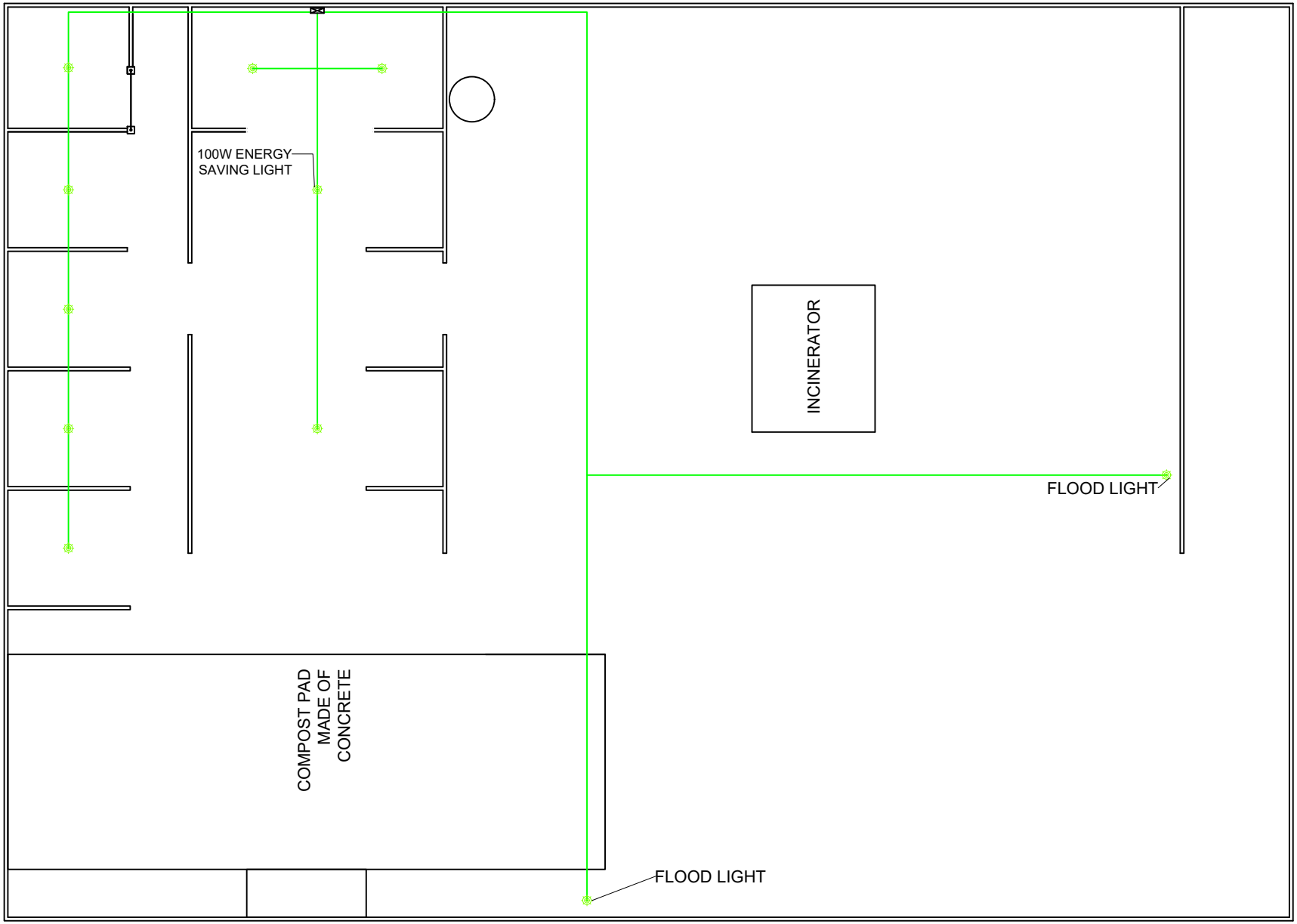
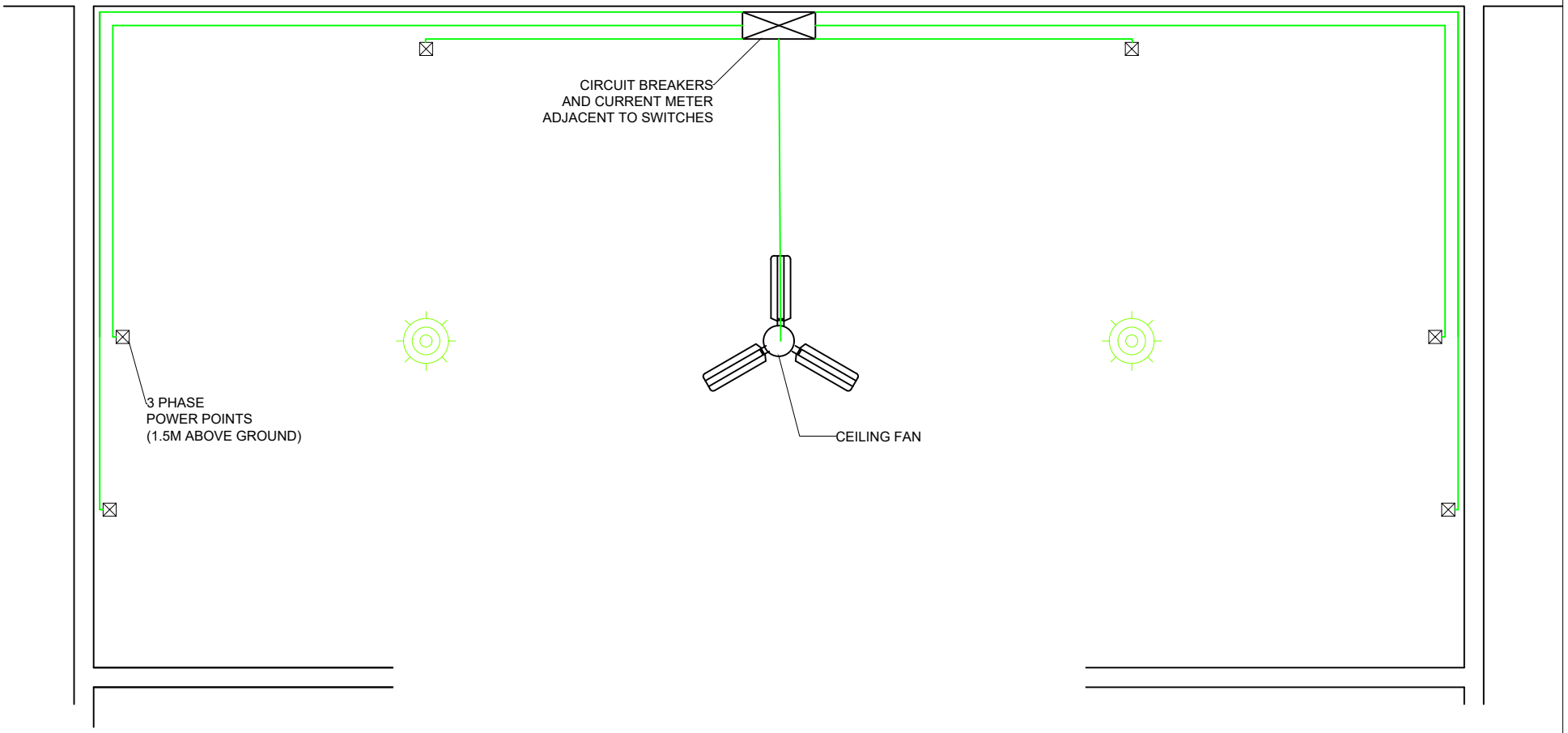


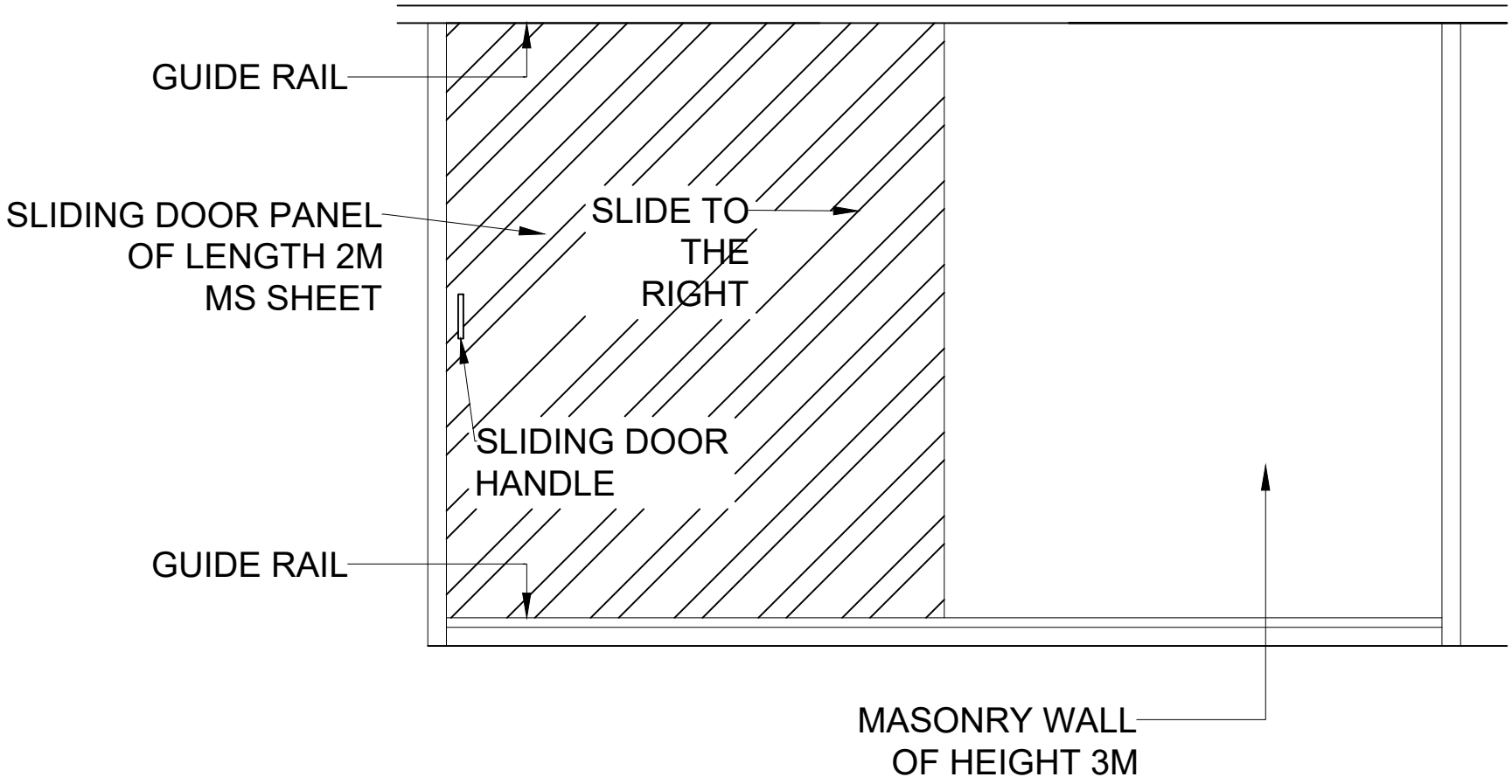
ELECTRICAL LAYOUT - LIGHTS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301



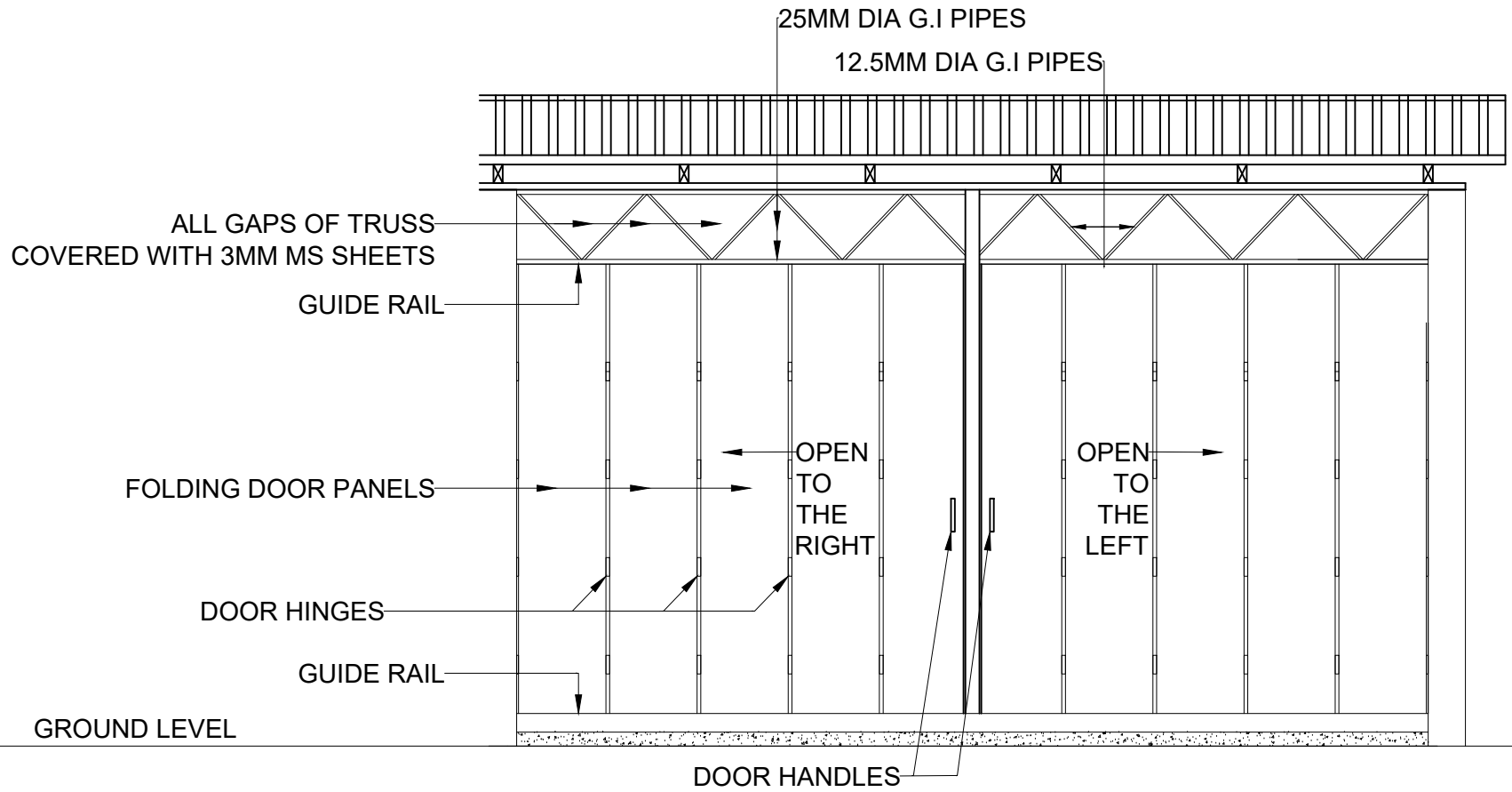
ELECTRICAL LAYOUT - EQUIPMENT ROOM

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301



HAZARDOUS WASTE ROOM SLIDING DOOR DETAILS

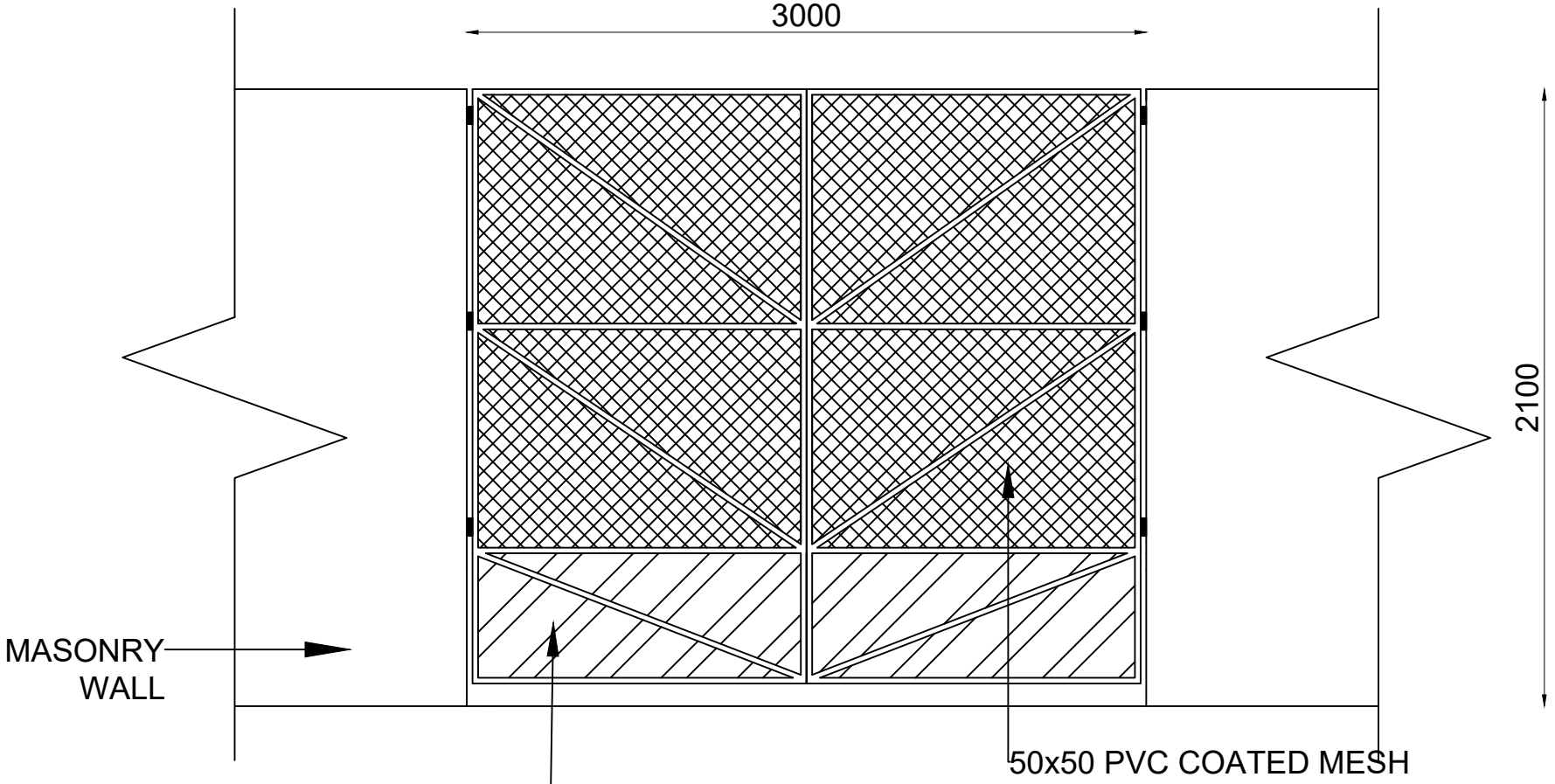
WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301



NOTE: ALL WELDS FOR TRUSS MEMBERS
ARE 5MM FILLET WELDS

EQUIPMENT ROOM FOLDING DOOR DETAILS

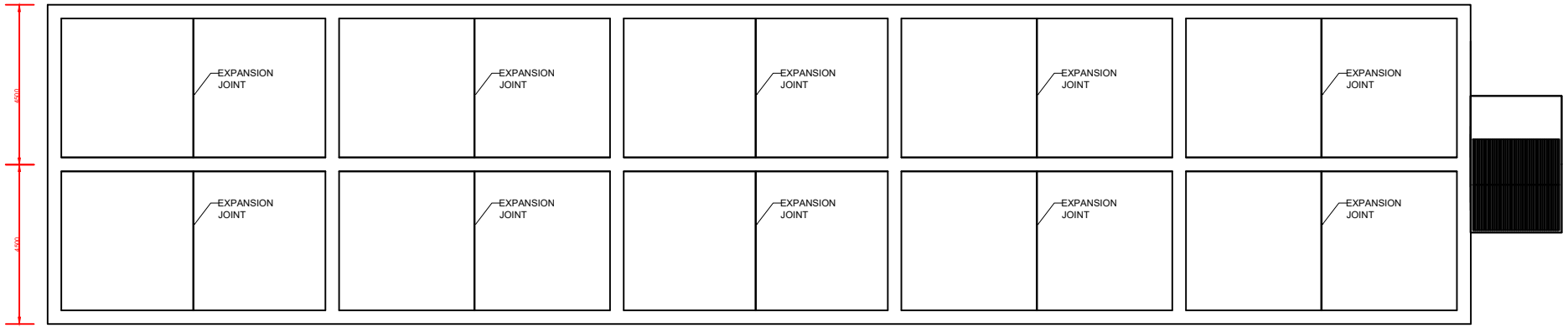
WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301

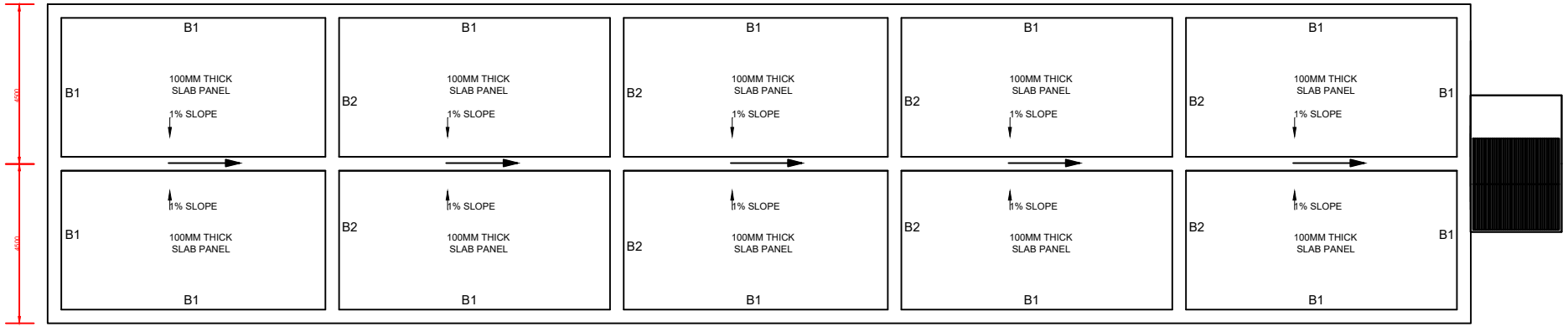


NOTE:
- DOOR IS MADE FROM 25MM DIA GI PIPE
- ALL WELDS ARE 5MM FILLET WELDS AROUND MEMBER

MAIN GATE

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
TEL:3018431, 3018300, FAX:328301





COMPOST SLAB - JOINTS AND SPACINGS

WMPC DEPARTMENT
MINISTRY OF ENVIRONMENT AND ENERGY
GREEN BUILDING, HANDHUVAREE HINGUN,
MAAFANNU, MALE' (20392), REPUBLIC OF MALDIVES
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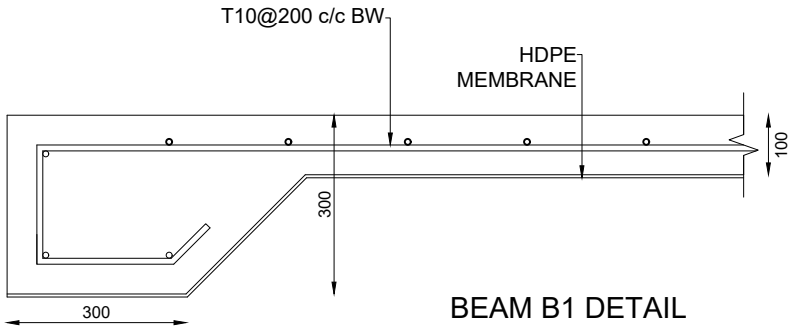
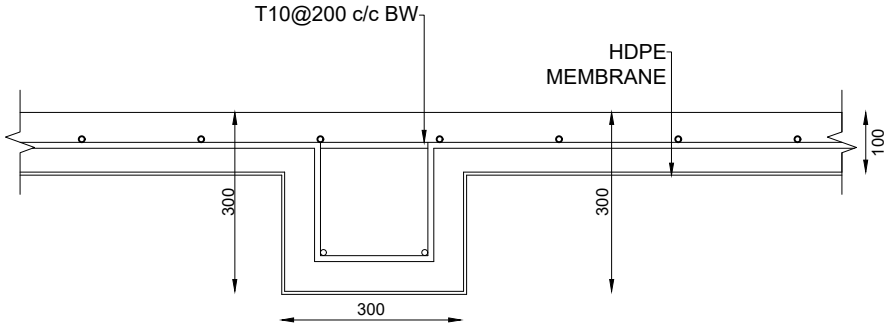
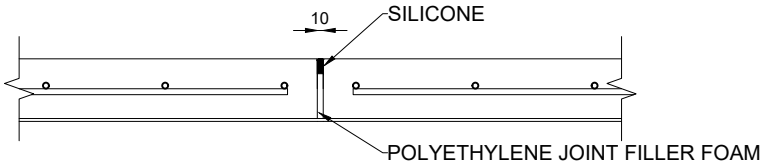


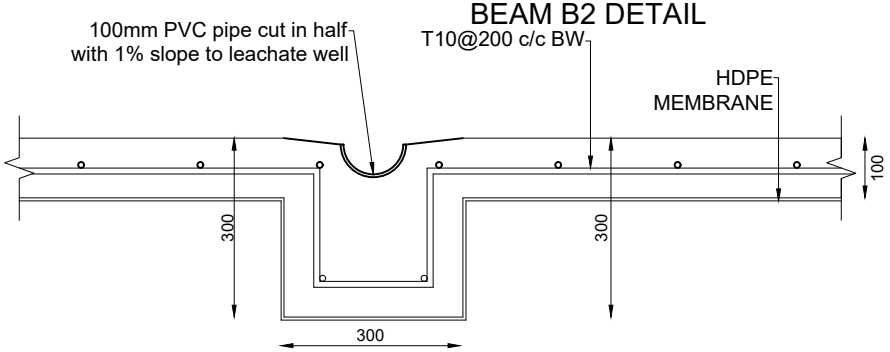
BEAM B1 DETAIL



BEAM B2 DETAIL



SLAB EXPANSION
JOINT DETAIL



BEAM B3 DETAIL

COMPOST SLAB BEAM DETAILS

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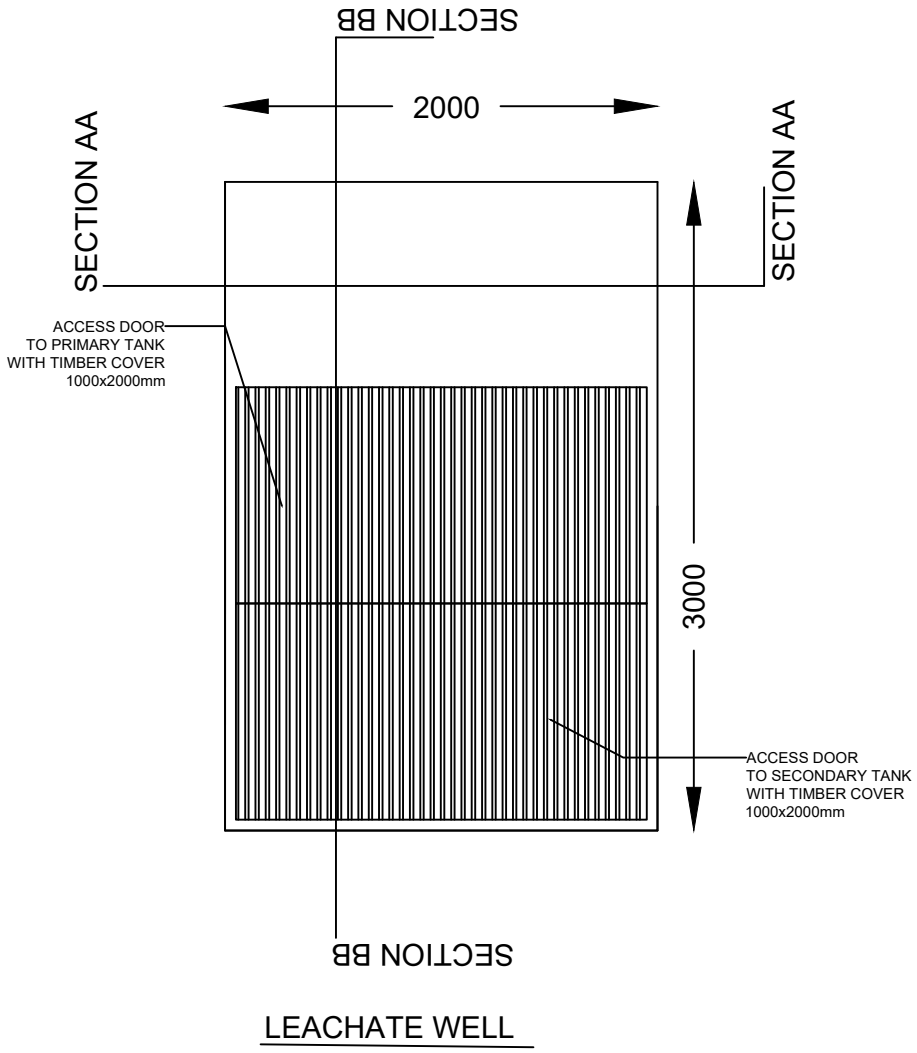

LEACHATE WELL

LEACHATE COLLECTION TANK

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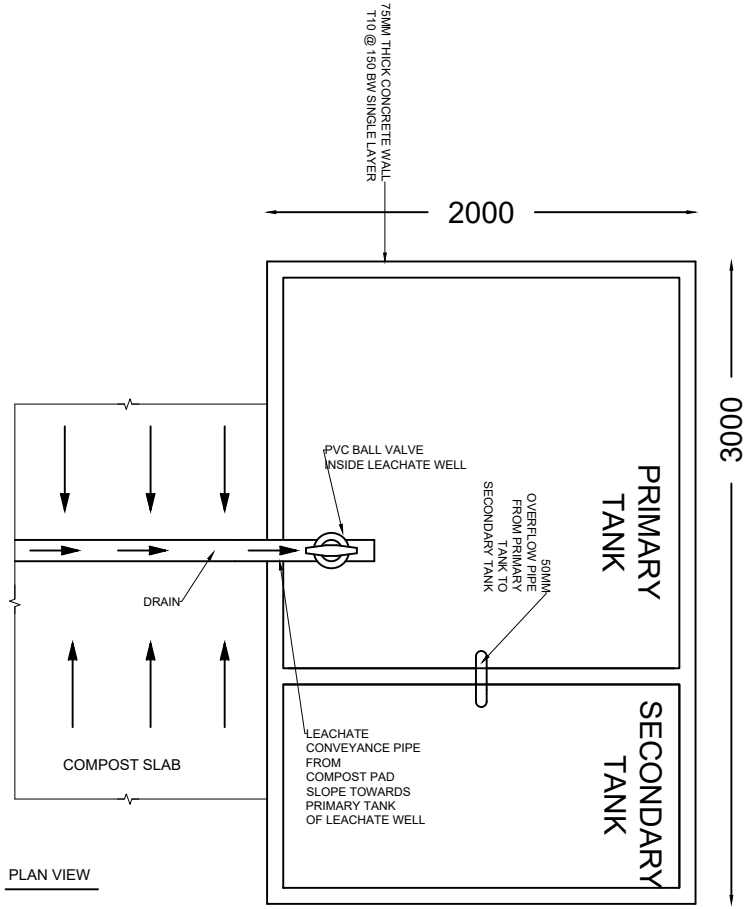
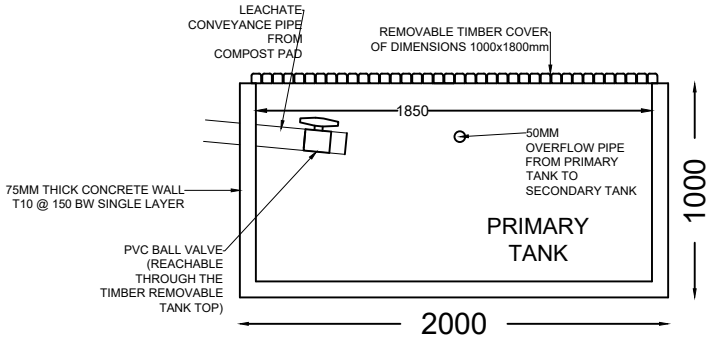
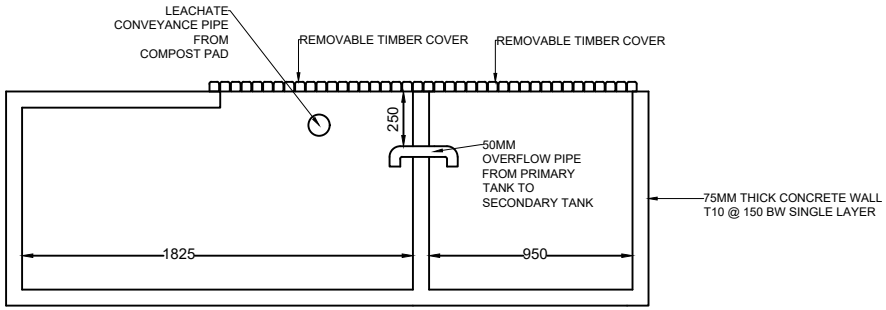


PLAN



SECTION AA



SECTION BB

LEACHATE WELL DETAILS

LEACHATE COLLECTION TANK - DETAILS

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ބަޔަކު 3 : ހަނދާންކުރަންޖެހޭ ތަކެތި ސުންގަނޑުކުރުން

Working Site

The site should be kept clean during the construction work period and should be thoroughly cleaned once the works are completed. Works should be carried out on site in a safe manner to all the workers on site and the people living in the vicinity of site. Disturbance to the neighborhood should be kept to a minimum. Electricity and water supply to the site, during construction period, should be provided by the contractor

Concrete

Cement conforming to BS12 standards should be used for all concrete, masonry and plastering works. The cement intended for use should be fresh and should not have any traces of hardened cement in the bag.

1. All concrete works should be done using one brand of cement
2. Sand and aggregate used for concrete works should be well graded.
3. Concrete should be mixed in the ratio 1:2:3 which are 1 part cement, 2 parts sand and 3 parts aggregate.
4. All foundations should be cast on a lean concrete layer. The lean concrete should be placed on well compacted ground.
5. Concrete should be mixed using a concrete mixer. Concrete should not be mixed by hand. When pouring concrete into the formwork, the mix should be compacted using a mechanical vibrator.
6. Aggregate used for concrete works should not be larger than 20mm.
7. Sand and aggregate used for concrete works should be clear from dust, mud and other debris.
8. All reinforcement bars used for the concrete works should be free from rust and grease that could weaken the bonding between the reinforcement bar and the concrete. Care should be taken to use continuous bars rather than short segments joined by laps.

Masonry Works

1. All masonry work should be done using Cement confirming to BS12 standards.
2. Masonry blocks should be made from imported sand or local white sand sourced from a permitted sand borrow area. The sand should be free from organic matter and other debris.
3. Masonry blocks should be made from mortar mixed at 1:5 ratio with 1 part cement to 5 part sand.
4. Average size of sand particles should not exceed 5mm.

Plastering Works

1. All plastering work should be done using Cement confirming to BS12 standards.
2. Plaster mix should be made from imported or local sand white sand sourced from a permitted borrow area. The sand should be free from organic matter and other debris.
3. Plaster mix should be made by mixing Cement and Sand at a ratio of 1:3 with 1 part Cement to 3 part Sand.
4. Average size of sand particles should not exceed 5mm.

Structural Steel work

1. All steel pipes obtained for the work should be new pipes and free from rust.
2. Thickness of pipes should not be less than 2.5mm

Electrical works

1. All materials used for electrical wiring should comply with MEA standards.

Roofing works

1. All materials used for roofing work should be newly purchased for the project.
2. All screws or bolts used for roof fixing should be G.I or Zinc finish screws.

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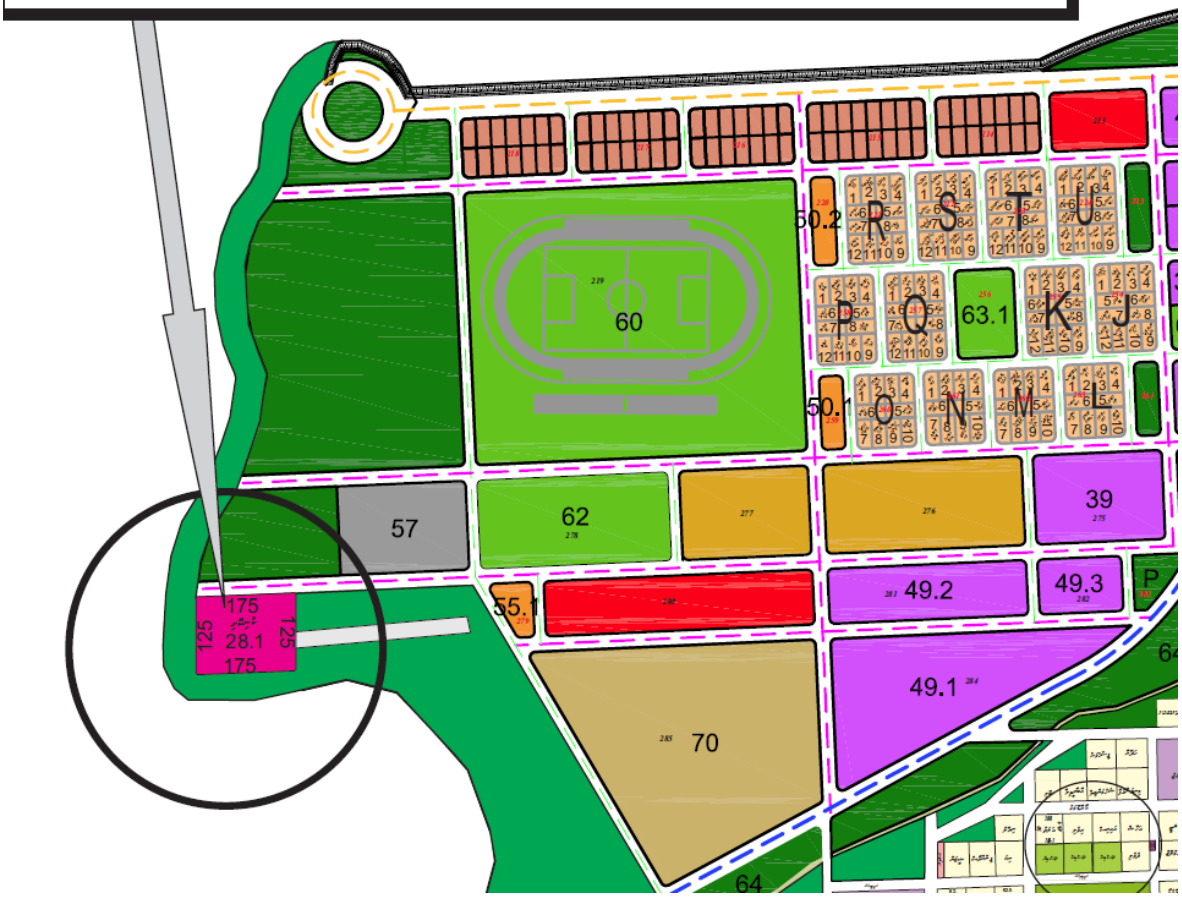
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