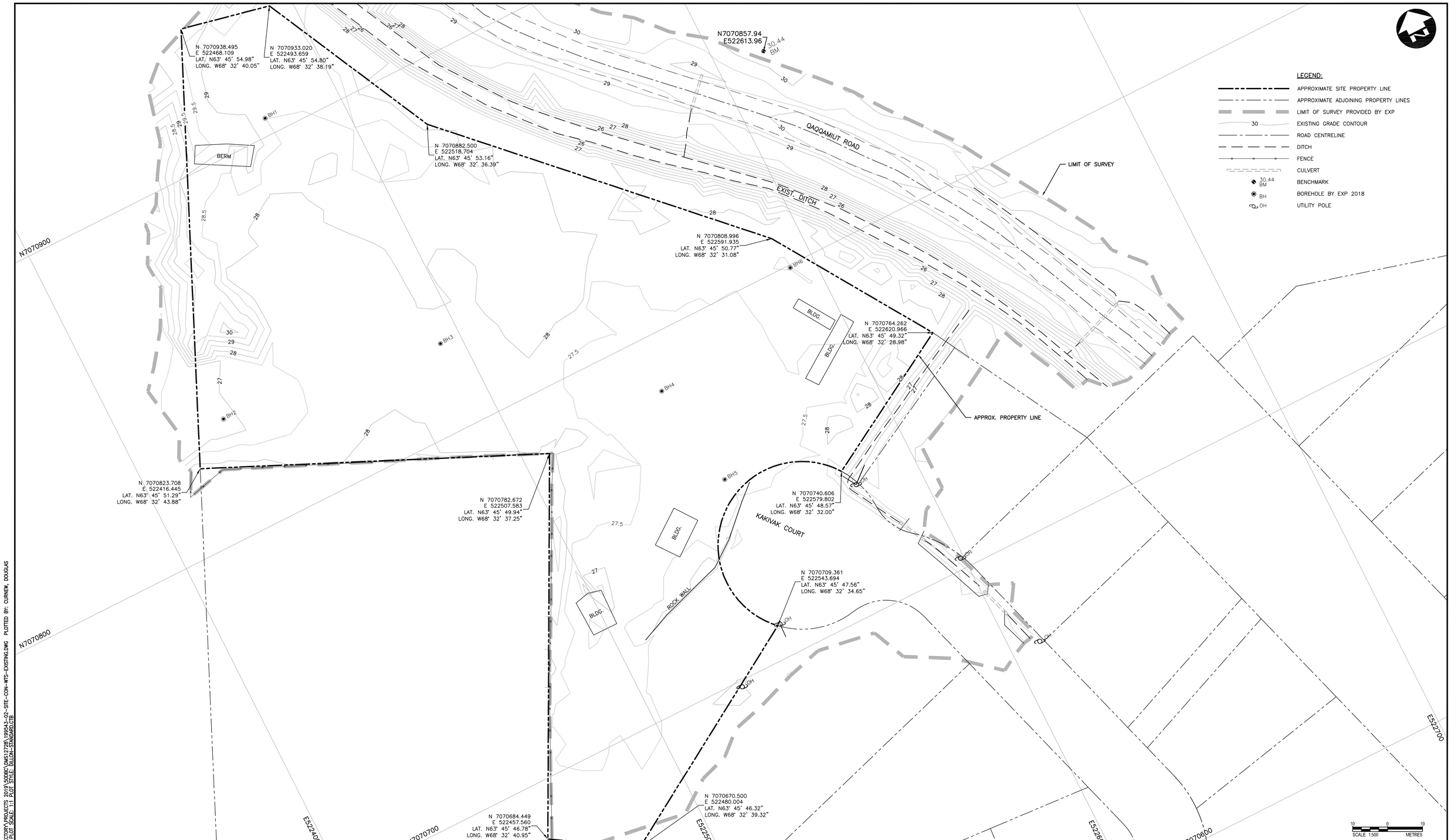

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1	30% REVIEW	2019/06/04	K.B.

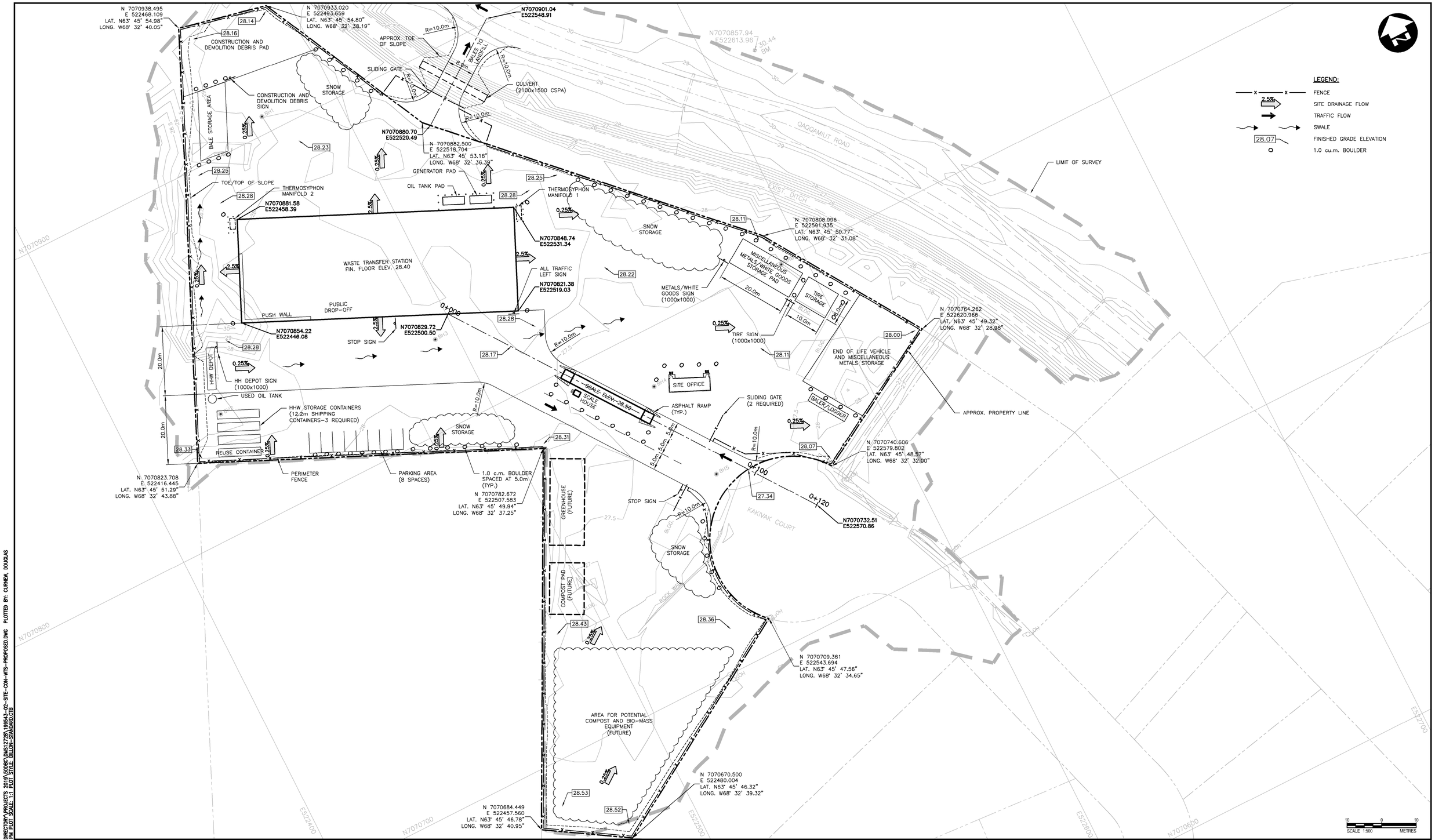
DESIGN C.R.S.	REVIEWED BY S.D.K.
DRAWN D.B.C.	CHECKED BY K.B.
DATE OCT 2019	
SCALE 1:500	

CITY OF IQALUIT
WASTE TRANSFER STATION

EXISTING CONDITIONS SITE PLAN

PROJECT NO. 19-9543

SHEET NO. **WTS-C01**



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DRAWN: D.B.C.	CHECKED BY: K.B.
DATE: OCT 2019	
SCALE: 1:500	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

PROPOSED DRAINAGE/GRADING SITE PLAN

SHEET NO. WTS-C02

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\SCOBE\DMS12729\19543-02-SITE-CON-WTS-PROPOSED.DWG PLOTTED BY: CURNEW, DOUGLAS
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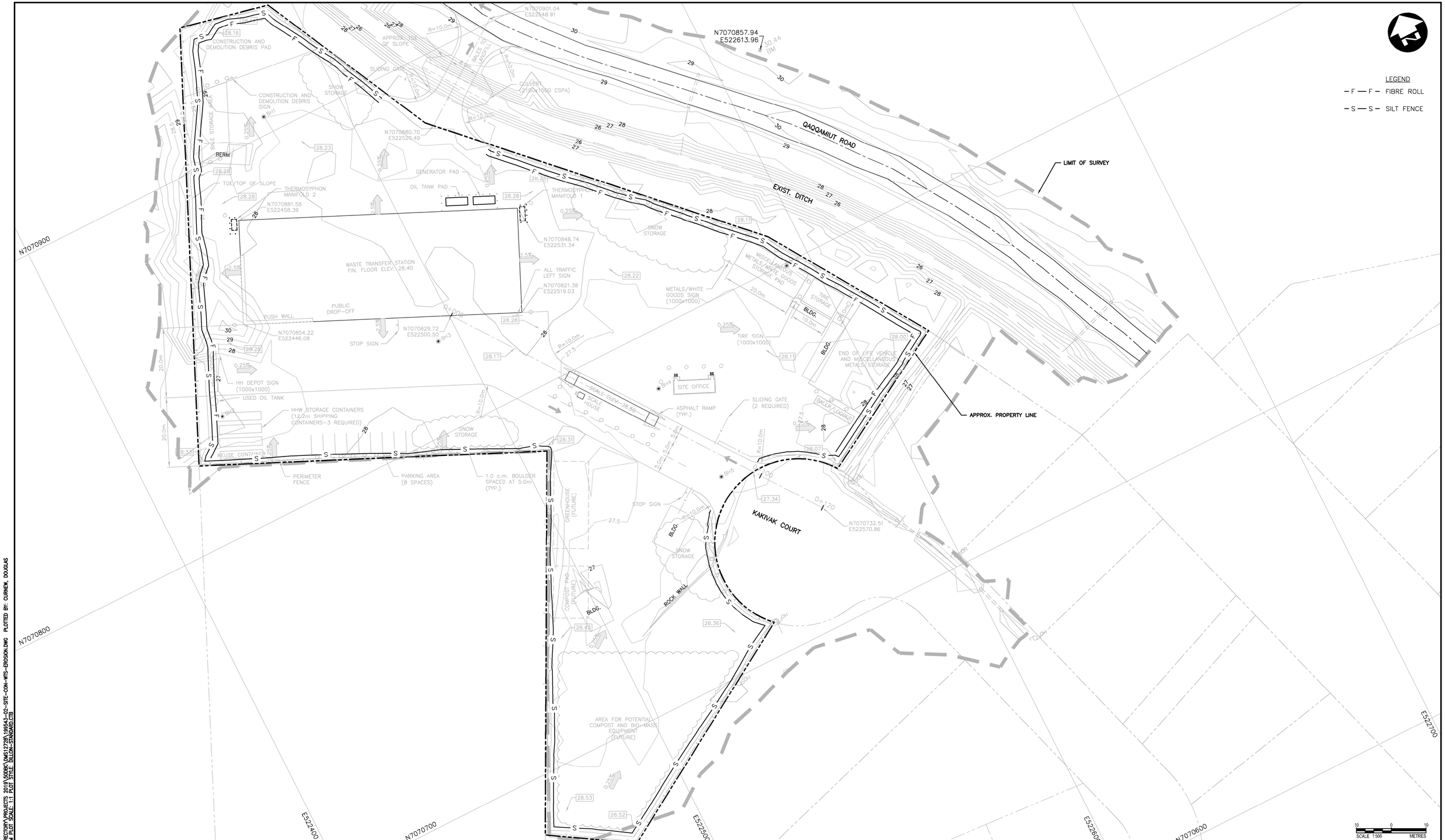

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SCALE: 1:500	

CITY OF IQALUIT
WASTE TRANSFER STATION

EROSION CONTROL PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-C03

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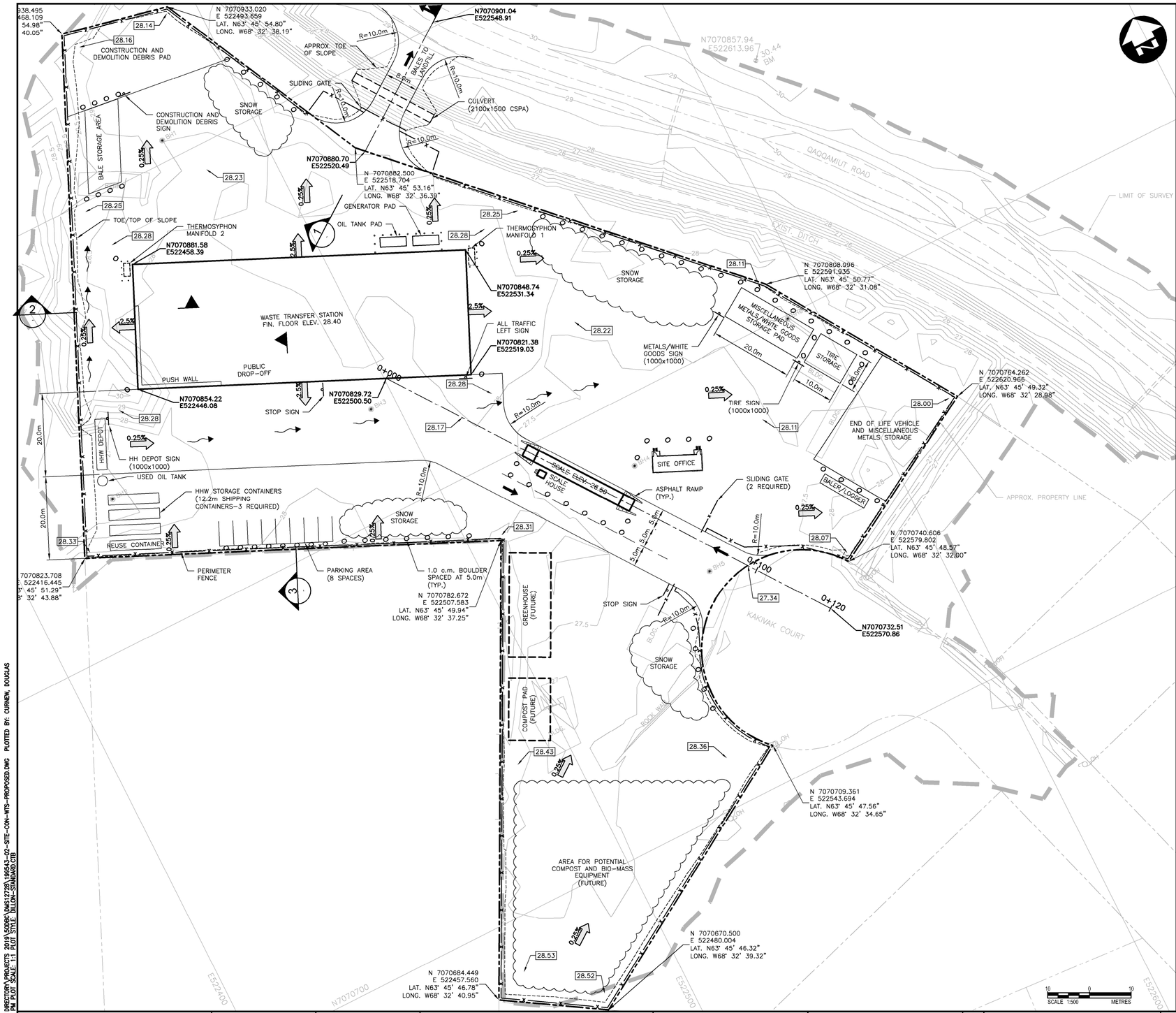

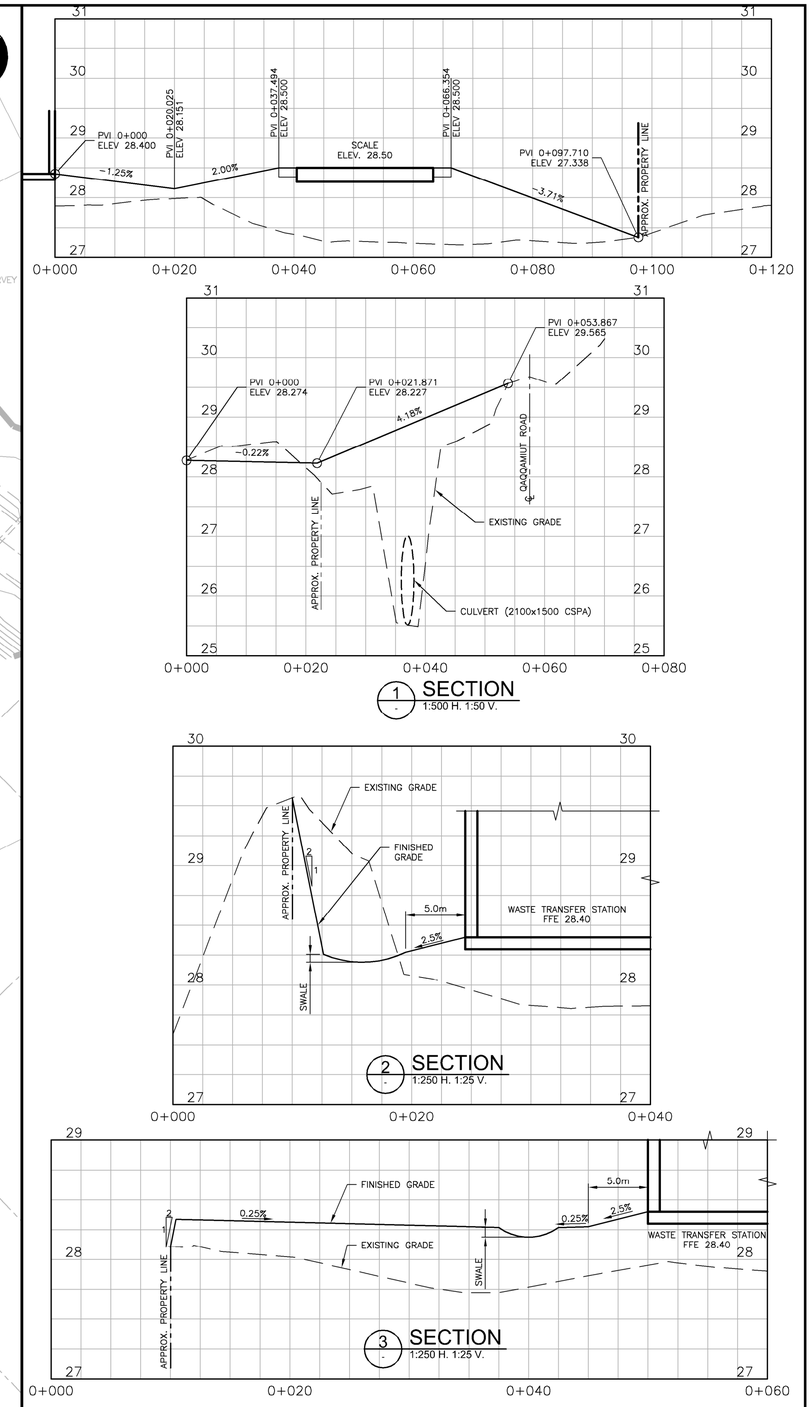

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CITY OF IQALUIT
WASTE TRANSFER STATION

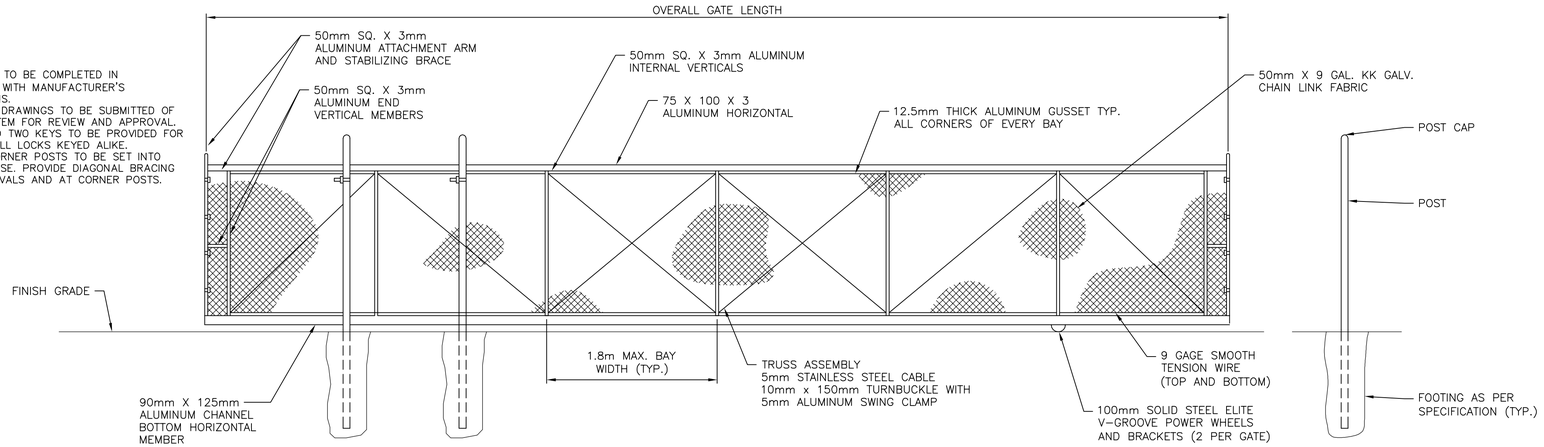
PLAN, PROFILES AND SECTIONS

PROJECT NO. 19-9543

SHEET NO. **WTS-C04**

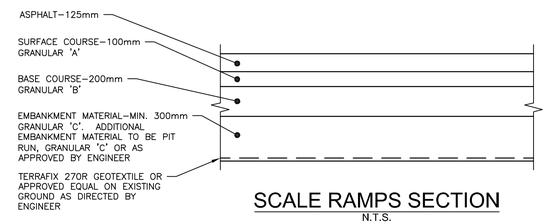
FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\50295\DMS12728\19543-02-SITE-CON-WTS-PROPOSED.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-01-24 @ 3:19:07 PM PLOT SCALE: 1:1 PLOT STYLE: DILLON-STANDARD.CTB

NOTE:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DETAIL SHOP DRAWINGS TO BE SUBMITTED OF FENCING SYSTEM FOR REVIEW AND APPROVAL.
3. PADLOCK AND TWO KEYS TO BE PROVIDED FOR EACH GATE ALL LOCKS KEYED ALIKE.
4. GATE AND CORNER POSTS TO BE SET INTO CONCRETE BASE. PROVIDE DIAGONAL BRACING @ 30m INTERVALS AND AT CORNER POSTS.



GATE DETAIL
N.T.S.

GATE SIDE ELEVATION



SCALE RAMPS SECTION
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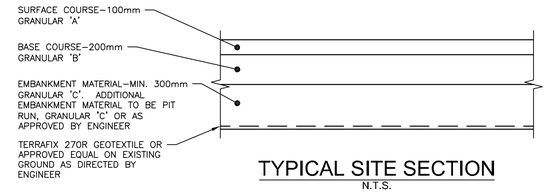

TYPICAL SITE SECTION
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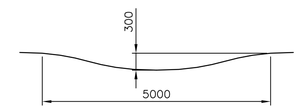

TYPICAL SWALE SECTION
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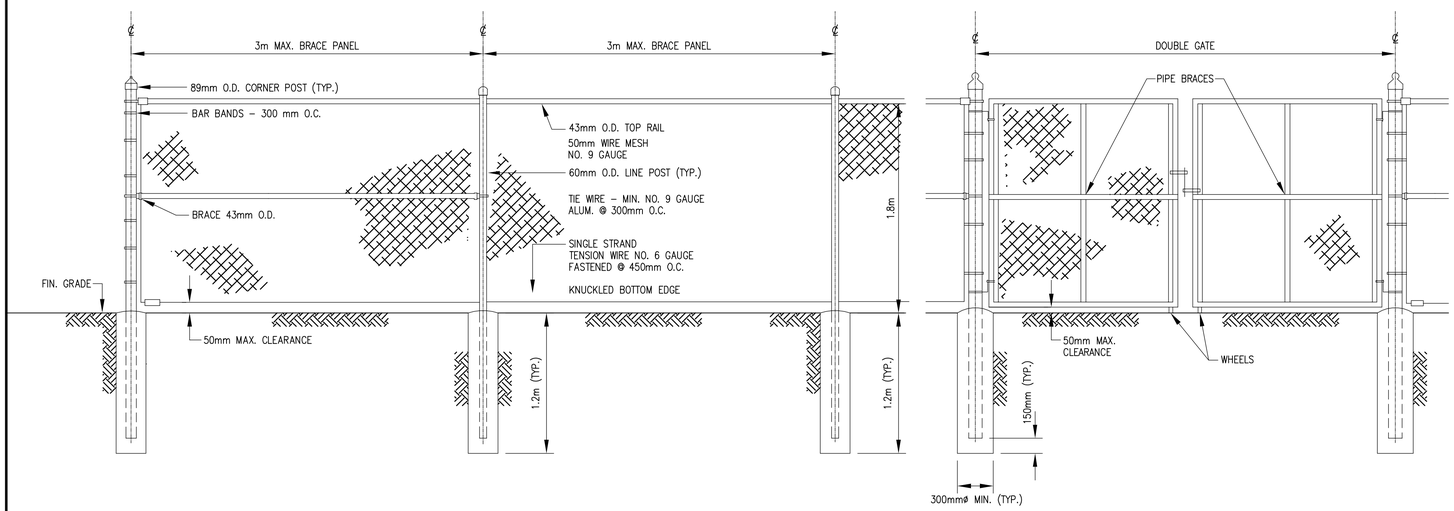
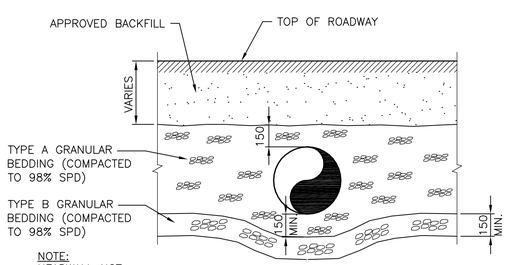
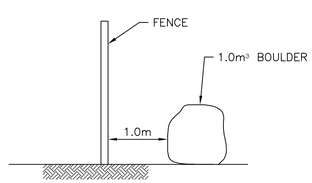


CHAIN LINKED SECURITY FENCE C/W BARB WIRE
N.T.S.



NOTE:
HEADWALL NOT SHOWN FOR CLARITY.

TYPICAL CULVERT
N.T.S.



FENCE/LARGE ROCK DETAIL
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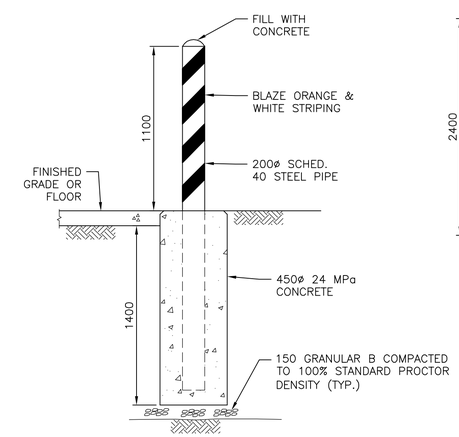
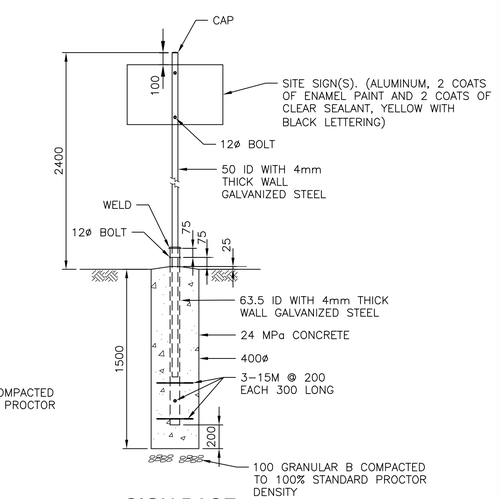


TYPICAL BOLLARD
N.T.S.



SIGN BASE
N.T.S.

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\50080\DMS12728\19954-02-SITE-CON-WTS-DETAILS.DWG PLOTTED BY: CURNEW, DOUGLAS
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1	30% REVIEW	2019/06/04	K.B.

DESIGN: C.R.S. | REVIEWED BY:
DRAWN: | CHECKED BY:
DATE: OCT 2019
SCALE: AS NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MISCELLANEOUS DETAILS

PROJECT NO. 19-9543

SHEET NO. WTS-C05

GENERAL NOTES:

1. CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO COMMENCING WITH CONSTRUCTION WORKS.
2. DO NOT SCALE FROM THE DRAWINGS.
3. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS, CIVIL DRAWINGS, ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
4. ALL WORK SHALL CONFORM TO THE LATEST NATIONAL BUILDING CODE 2015. ALL REFERENCES TO CODES, STANDARDS, SPECIFICATIONS, GUIDELINES, ETC. SHALL MEAN THE LATEST EDITION APPLICABLE.
5. DO NOT CONSTRUCT FROM THIS DRAWING UNLESS MARKED "ISSUED FOR CONSTRUCTION".
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE PREPARATION AS PER DRAWINGS
7. TEMPORARY SUPPORT AND BRACING FOR CONSTRUCTION LOADING AND CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING AND SECURING ALL NECESSARY PERMITS.
9. THE CONTRACTOR SHALL BE PRESENT AT SITE REVIEW MEETINGS.

DESIGN LOADS:

CLIMATIC DATA:	CITY OF IQALUIT
IMPORTANCE FACTOR:	NORMAL
WIND LOAD	
REFERENCE HOURLY WIND PRESSURE (1/10)	0.45 kPa
REFERENCE HOURLY WIND PRESSURE (1/50)	0.58 kPa
SNOW LOAD (1/50)	
S_S	2.9 kPa
S_r	0.2 kPa
SEISMIC DATA	
$S_a(0.2)$	0.087
$S_a(0.5)$	0.065
$S_a(1.0)$	0.043
$S_a(2.0)$	0.023
$S_a(5.0)$	0.0058
$S_a(10.0)$	0.0025
PGA	0.051
PGV	0.052
SITE CLASSIFICATION:	C
LIVE LOAD	4.8 kPa
STORAGE AREA	12 kPa
MEZZANINE	
DEAD LOAD	3 kPa
LIVE LOAD	4.8 kPa

GEOTECHNICAL NOTES:

1. GEOTECHNICAL INVESTIGATION WAS COMPLETED BY EXP. SERVICES INC. AND A GEOTECHNICAL REPORT HAS BEEN PREPARED DATED OCTOBER 19, 2018 ENTITLED "CITY OF IQALUIT GEOTECHNICAL INVESTIGATION" PROJECT # OTT-00248813-A0.
2. GEOTHERMAL ANALYSIS WAS COMPLETED BY WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS AND A GEOTHERMAL REPORT HAS BEEN PREPARED, DATED MAY 14, 2019, ENTITLED "GEOTHERMAL MODELLING AND GEOTECHNICAL RECOMMENDATIONS TRANSFER STATION AND LANDFILL IN IQALUIT, NUNAVUT" PROJECT # CG14359.
3. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY OTHERS.

BACKFILL AND COMPACTION:

1. A GEOTECHNICAL ENGINEER OR QUALIFIED PERSONNEL SHALL BE RETAINED BY AND PAID FOR BY THE GENERAL CONTRACTOR TO INSPECT AND CONFIRM COMPACTION REQUIREMENTS HAVE BEEN MET.
2. ALL BACKFILL MATERIALS AND BACKFILL PLACEMENT SHALL BE REVIEWED BY QUALIFIED GEOTECHNICAL PERSONNEL.

SITE REVIEW AND SHOP DRAWING REVIEW:

1. NOTIFY THE ENGINEER 24 HOURS PRIOR TO POURING CONCRETE FOR SITE REVIEW.
2. PREPARE AND SUBMIT ALL REQUIRED SHOP DRAWINGS FOR REVIEW 7 DAYS PRIOR TO FABRICATION.
3. THE REVIEW IS ONLY FOR THE WORK SHOWN ON THE STRUCTURAL DRAWINGS AND IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DRAWINGS.
4. THE REVIEW DOES NOT RELIEVE THE CONTRACTOR RESPONSIBILITY TO PERFORM THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

REINFORCING STEEL:

1. ALL REINFORCING SHALL BE BLACK STEEL CONFORMING TO CSA G30.18, GRADE 400W.
2. ALL REBAR SHALL BE STORED ON WOOD BLOCKING AT THE SITE.
3. REINFORCEMENT SHALL BE FREE OF CLAY, DIRT AND FORM OIL OR OTHER DELETERIOUS MATERIAL WHICH WOULD REDUCE THE BOND TO CONCRETE.
4. CONCRETE COVER SHALL CONFORM TO THE FOLLOWING LIST:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	75 mm
PUSH WALLS, OIL TANK PAD, GENERATOR PAD	50 mm
CONCRETE WALLS, DECK TOPPING	40 mm
BUILDING SLAB	60 mm

4. BAR LAP SHALL BE AS FOLLOWS:

10M	600 mm
15M	900 mm
20M	1200 mm
25M	1600 mm

5. CLEAR SPACING SHALL BE GREATER THAN 2 TIMES BAR DIAMETER.
6. DO NOT FIELD BEND REINFORCEMENT EXCEPT WHERE INDICATED AND WHERE AUTHORIZED BY THE ENGINEER.
7. REPLACE BARS WHICH DEVELOP CRACKS OR SPLITS.
8. PLACE REINFORCING STEEL IN ACCORDANCE WITH CSA A23.1/A23.2.

CONCRETE FORMWORK:

1. FORM WORK TO CONFORM TO CSA A23.1/A23.2.
2. FORM STRIPPING AGENT – COLORLESS MINERAL OIL, NON-TOXIC, BIODEGRADABLE, FREE OF KEROSENE.
3. PROVIDE BRACING TO ENSURE STABILITY OF FORMWORK.
4. DO NOT PLACE SHORES AND MUD SILLS ON FROZEN GROUND.
5. FORM WORK SHALL BE CLEANED OF DEBRIS BEFORE PLACING CONCRETE.
6. REMOVE ALL LOOSE CONCRETE FROM TOPS OF PILES.
7. ENSURE TOPS OF PILES ARE SOUND CONCRETE.
8. FORMWORK TO FOLLOW THE MAXIMUM TOLERANCES:

HORIZONTAL AND VERTICAL LINES	10 mm in 20 m

9. LEAVE FORM WORK IN PLACE FOR THE FOLLOWING MINIMUM OF 7 DAYS FOR GRADE BEAMS AND 5 DAYS FOR SLABS OR UNTIL THE CONCRETE HAS REACHED 70% OF ITS DESIGN STRENGTH.
10. DO NOT WEDGE PRY BARS OR HAMMERS AGAINST CONCRETE SURFACES.

MASONRY:

1. ALL MASONRY WORK SHALL BE PERFORMED IN ACCORDANCE WITH CSA A371.
2. CONCRETE BLOCK SHALL CONFORM TO CAN3-A165. STANDARD HOLLOW MASONRY UNIT H/15/A/M.
3. MORTAR AND GROUT TO CSA A179.
4. MASONRY CONNECTORS TO CSA A370 AND CSA A304.
5. MASONRY REINFORCEMENT TO CSA A371 TRUSS TYPE
6. BAR REINFORCEMENT TO CSA G30.18 GRADE 400.
7. TOP COURSE OF ALL BLOCK WALLS TO BE 400 DEEP "U" BLOCK WITH 2-15M REINFORCING BARS AND 20 mPa CONCRETE FILL CONTINUOUS.
8. MINIMUM HORIZONTAL JOINT REINFORCEMENT: 3.8 mm TRUSS TYPE WIRE REINFORCEMENT AT EVERY 200 mm.
9. ALL MASONRY WALLS TO BE SECURELY BRACED UNTIL STRUCTURE IS CLOSED IN.
10. PROVIDE "U" BLOCK LINTELS OVER OPENINGS IN BLOCK WALL AS FOLLOWS UNLESS NOTED OTHERWISE:
    - UP TO 1200 mm SPAN – 200 mm "U" BLOCK, 2-15M BOTTOM, 20 mPa, BEARING 200 mm MIN EACH END, FILL 3 CORES IN WALL EACH END.
    - 1200 TO 2400 mm SPAN – 400 mm "U" BLOCK, 2-15M BOTTOM, 20 mPa, BEARING 200 mm MIN EACH END, FILL 3 CORES IN WALL EACH END.
11. PROVIDE 15M VERTICAL REINFORCEMENT FULL HEIGHT WITH MATCHING DOWEL AND COREFILL AT 400 mm O/C; UNDER ALL BEAM BEARING LOCATIONS, EACH WALL CORNER; EACH SIDE OF DOORS AND OPENINGS.

CAST-IN-PLACE CONCRETE:

1. CONCRETE MATERIAL, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA A23.1/A23.2.
2. CONCRETE FALSE WORK/FORMWORKS SHALL CONFORM TO CSA S269.1.
3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
4. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED.
5. CONCRETE STRENGTH AND MIX SPECIFICATIONS ARE AS FOLLOWED, UNLESS NOTED OTHERWISE:

EXP. CLASS	SUPPLY AND USE	MAX. W/C	STRENGTH	CEMENT TYPE	MAX. AGG. SIZE	AIR ENTRAINMENT	MAX. FLY ASH CONTENT
C-1	APRON	0.40	35 MPa @ 28 DAYS	GU	19mm	5% -8%	25%
A-3	STRUCTURAL SLAB	0.50	30 MPa @ 28 DAYS	GU	19mm	4% -7%	25%
N	CONCRETE WALLS/ DECK TOPPING/ HOUSEKEEPING PADS	0.50	30 MPa @ 28 DAYS	GU	19mm	N/A	25%
F-1	EXTERIOR CONCRETE PADS/ MANIFOLD	0.50	30 MPa @ 28 DAYS	GU	19mm	5% -8%	25%

6. FINISH CONCRETE IN ACCORDANCE WITH CSA A23.1/A23.2.
7. REJECT ALL CONCRETE IF BATCHING TIME AND PLACING TIME EXCEEDS TWO HOURS.
8. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGN SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT FOR REVIEW 7 DAYS PRIOR TO COMMENCING RELATED WORK.
9. PROVIDE CERTIFICATION DEMONSTRATING PLANT, EQUIPMENT, AND MATERIAL TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA A23.1/A23.2.

COLD WEATHER REQUIREMENTS:

10. WHEN THE AMBIENT TEMPERATURE IS AT OR BELOW 5°C OR WHEN THERE IS A PROBABILITY OF THE AMBIENT TEMPERATURE DROPPING TO OR BELOW 5°C DURING CONCRETE PLACEMENT, THE TEMPERATURE OF CONCRETE DURING PLACING SHALL BE BETWEEN 15°C AND 25°C.
11. PLACED CONCRETE SHALL BE PROTECTED AND MAINTAINED AT A TEMPERATURE OF AT LEAST 10°C FOR NOT LESS THAN 3 DAYS OR NOT LESS THAN 20°C FOR 2 DAYS AND ALL CONCRETE TO BE MAINTAINED ABOVE FREEZING FOR A MINIMUM OF 7 DAYS.
12. CONCRETE SHALL BE PROTECTED FROM ALTERNATE FREEZING AND THAWING FOR A MINIMUM OF 14 DAYS.
13. PROTECTED AND HEATED CONCRETE TO BE BROUGHT GRADUALLY TO AMBIENT AIR TEMPERATURE AT A DROP NOT MORE THAN 15°C PER 24 HOUR PERIOD.
14. HEATING ENCLOSURE SHALL BE CLEAR OF CONCRETE AND FORMING SURFACES FOR AIR CIRCULATION.
15. FROZEN CONCRETE WILL BE REJECTED.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL TO CONFORM TO CSA G40.20/G40.21 GRADE 350W FOR ROLLED STEEL AND GRADE 300W FOR STEEL PLATE.
2. EXTERIOR STRUCTURAL STEEL TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123 TO NET RETENTION OF 610 g/m^2.
3. CONNECTIONS TO BE DESIGNED IN ACCORDANCE WITH THE LATEST CODE AND STANDARDS. USE A MINIMUM OF 19 mm DIA. BOLTS IN EACH BOLTED CONNECTION.
4. WELDING TO CONFORM TO CSA W59.
5. WELD ALL COLUMNS ALL AROUND TO BASE PLATES WITH MINIMUM WELD THICKNESS OF 6 mm.
6. GROUT UNDER COLUMNS SHALL BE NON-SHRINK AND NON-STAIN WITH A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 7 DAYS.
7. SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT, FOR REVIEW PRIOR TO FABRICATION

STRUCTURAL STEEL DECK:

1. STEEL DECK TO BE 38 mm.
2. STEEL DECK SHALL BE DESIGNED & INSTALLED BY DECK SUPPLIER IN ACCORDANCE WITH THE LATEST CODES AND STANDARDS FOR THE LOADS SPECIFIED UNDER "DESIGN LOADS".
3. STEEL DECK SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE.
4. LIMIT DECK TOTAL DEFLECTION TO L/360 AND LIVE LOAD DEFLECTION OF L/240.
5. DECK COATING AS PER SPECIFICATIONS.
6. INSTALL DECK CONTINUOUSLY OVER MINIMUM OF THREE SPANS.
7. WELD DECK TO SUPPORTING STEEL WITH 19 mm DIA. FUSION WELDS. FASTEN SIDE LAPS USING BUTTON PUNCHING AT 600 mm O/C MAX. SPACING. WELD EACH SIDE LAPS AT SUPPORTS, MAX. SPACING 150 mm O/C AROUND PERIMETER AND 300 mm O/C AT INTERIOR SUPPORTS.
8. CLEAN AND PAINT WELDS WITH A ONE COMPONENT ZINC RICH PAINT SUCH AS ZINGA.
9. SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT, FOR REVIEW PRIOR TO FABRICATION.

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2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

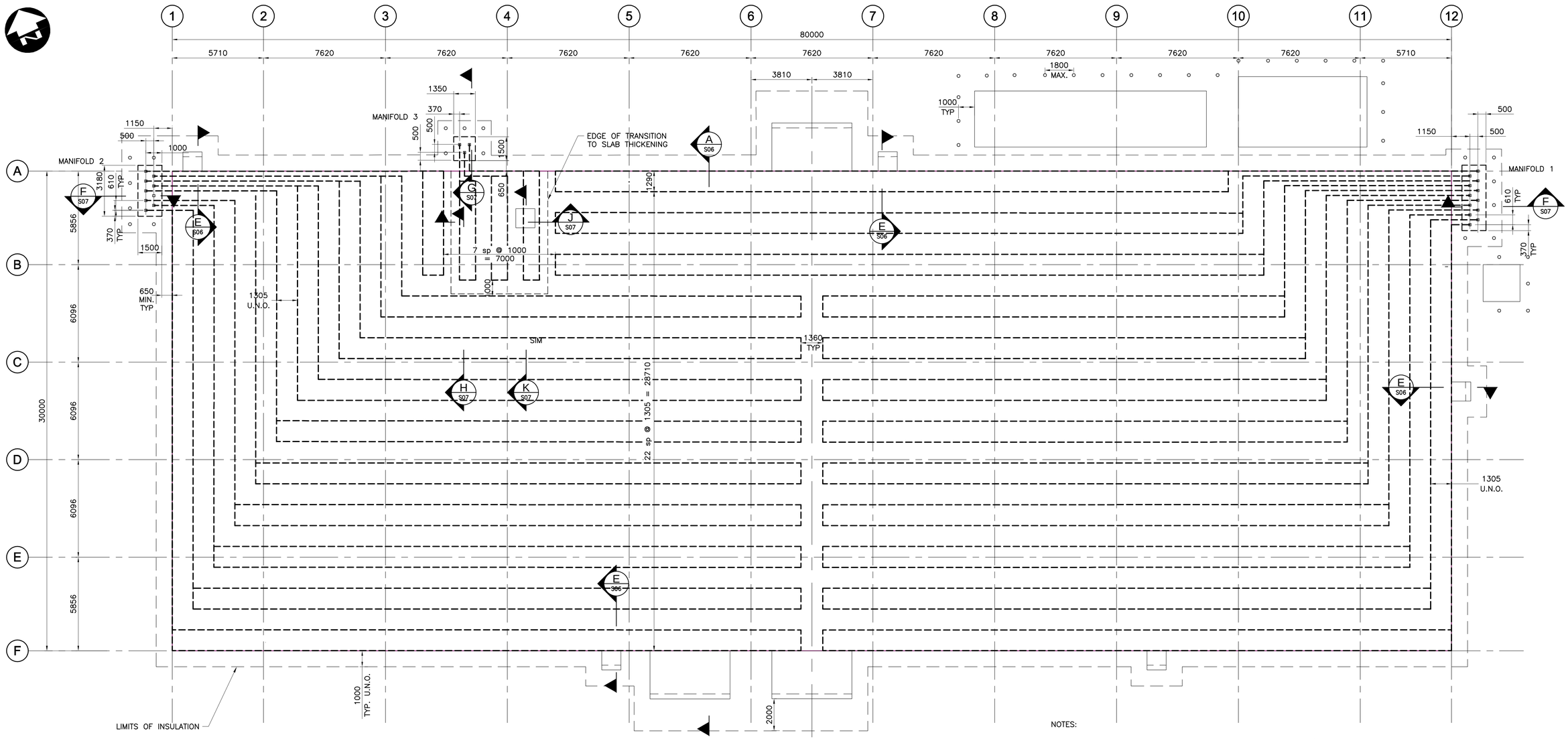
DESIGN: NR	REVIEWED BY: DRA
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

STRUCTURAL NOTES

PROJECT NO. 19-9543

SHEET NO. WTS-**S01**



THERMOSYPHON PLAN

1:125

NOTES:

1. THERMOSYPHON LAYOUT IS SCHEMATICALLY SHOWN BASED ON "GEOTHERMAL MODELLING AND GEOTECHNICAL RECOMMENDATIONS – TRANSFER STATION AND LANDFILL IN IQALUIT, NUNAVUT" REPORT BY WOOD ENVIRONMENTAL & INFRASTRUCTURE SOLUTIONS, PROJECT # CG14359 DATED MAY 2019 AND BASED ON DISCUSSION WITH ARCTIC FOUNDATIONS OF CANADA. THIS DRAWING SHALL NOT BE MISCONSTUED TO REPRESENT A FINAL THERMOSYPHON DESIGN.
2. THERMOSYPHON MANUFACTURER AND SUPPLIER TO CONFIRM LAYOUT DESIGN AND TO SUBMIT THERMOSYPHON SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT FOR REVIEW PRIOR TO COMMENCING WORK.
3. THERMOSYPHON SHALL BE DESIGNED FOR 70 YEARS UNDER MODERATELY REDUCED (RCP4.5) GREENHOUSE GAS EMISSION SCENARIO AS PER CSA PLUS4011:19.
4. ALL EVAPORATOR PIPES SHALL BE 19 mm A106B STEEL MIN.. ALL RADATORS SHALL BE 19.5 m^2 MIN. ALUMINIZED AND PAINTED WHITE.
5. PROVIDE SELF SUPPORTING RADIATOR USING CANTRUSS BRACING.
6. ALL EVAPORATOR PIPING TO BE FLAT, NO VERTICAL OFFSET IS ALLOWED.
7. ALL RADIATOR PIPING IS TO BE ADEQUATELY SUPPORTED AGAINST WIND LOADS AND SEISMIC LOADING.
8. ALL RADIATOR PIPING IS TO BE ESSENTIALLY PLUMB.
9. THERMOSYPHON SUPPLIER TO PROVIDE HORIZONTAL TAC. SENSORS TO ALL THERMOSYPHON LOOPS AND DATALOGGER MOUNTS ON EACH MANIFOLD.
10. THERMOSYPHON SUPPLIER TO PROVIDE VERTICAL TAC. SENSORS FROM EVAPORATOR LEVEL TO 7 m BELOW CONCRETE PAD.
11. THERMOSYPHON SUPPLIER TO MONITOR THE SYSTEM 5 YRS AFTER INSTALLATION.
12. THERMOSYPHON SHALL HAVE A 4 YEAR WARRANTY INCLUSIVE AND ADDITIONAL 4 YEARS AGAINST MANUFACTURER'S DEFECTS ON ALL PARTS.
13. GRANULAR FILL SHALL BE NON–FROST SUSCEPTIBLE AND HAS GRADATION AS INDICATED IN THE GEOTHERMAL AND GEOTECHNICAL RECOMMENDATION REPORT ABOVE.
14. COMPACT GRANULAR FILL AS PER THE GEOTHERMAL AND GEOTECHNICAL RECOMMENDATION REPORT ABOVE.

Conditions of Use

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3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

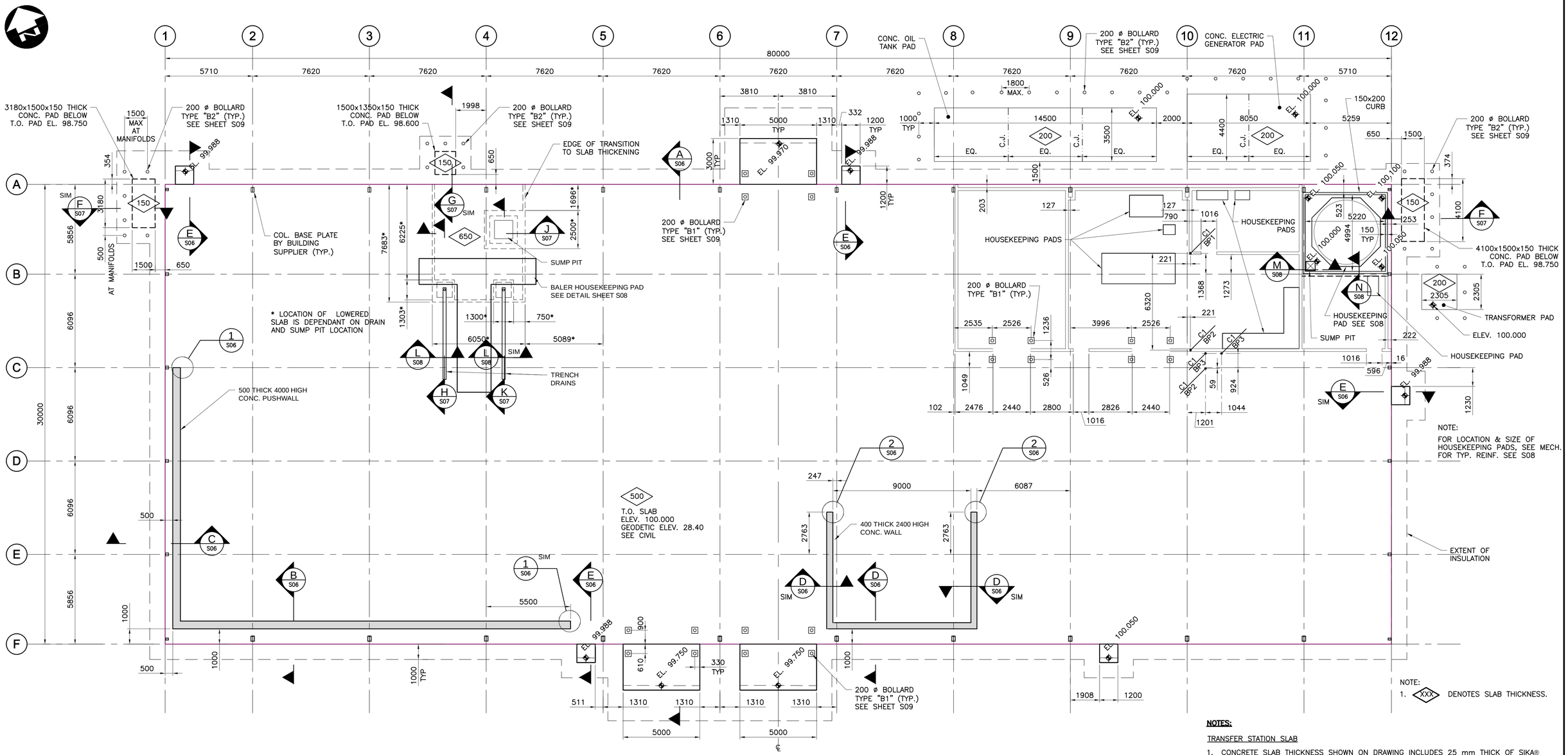
DESIGN: NR	REVIEWED BY: DRA
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

THERMOSYPHON PLAN

PROJECT NO. 19-9543

SHEET NO. WTS- S02



SLAB PLAN

1:125

NOTES:

TRANSFER STATION SLAB

1. CONCRETE SLAB THICKNESS SHOWN ON DRAWING INCLUDES 25 mm THICK OF SIKA® EMERICRETE® OR LM™ EMERYTOP 400™ TOPPING.
2. TOPPING TO BE PLACED AS A SEPARATE TOPPING
3. CONCRETE SURFACE RECEIVING TOPPING MUST BE MECHANICALLY ROUGHENED TO A MINIMUM 3 mm PROFILE ICRI–CSP 6 FOR SIKA® EMERICRETE® OR 6 mm PROFILE ICRI–CSP 8–10 FOR LM™ EMERYTOP 400™.
4. SURFACE MUST BE CLEAN, SOUND AND FREE OF ALL CONTAMINANTS
5. WET CONCRETE SURFACE TO A SATURATED SURFACE DRY (SSD) CONDITION WITH NO STANDING WATER
6. APPLY BONDING AGENT SIKATOP® ARMATEC–110 EPOCEM® OR LM™ EMERYTOP 400™
7. INSTALLATION OF BONDING AGENT AND TOPPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

OIL TANK PAD & GENERATOR PAD

1. C.J. DENOTES CONTROL JOINT. SEE DETAIL SHEET S08

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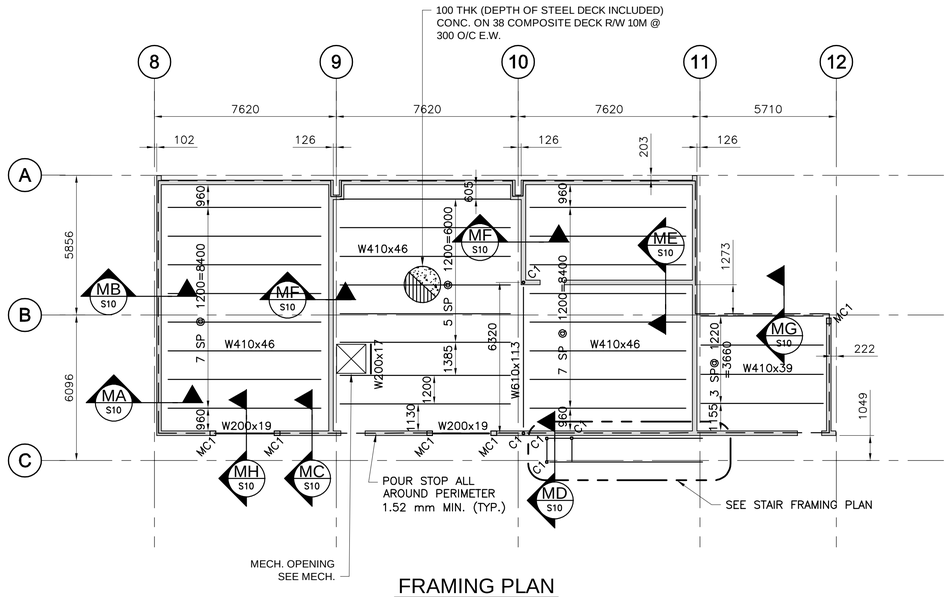
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

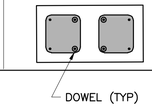
SLAB PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-**S03**

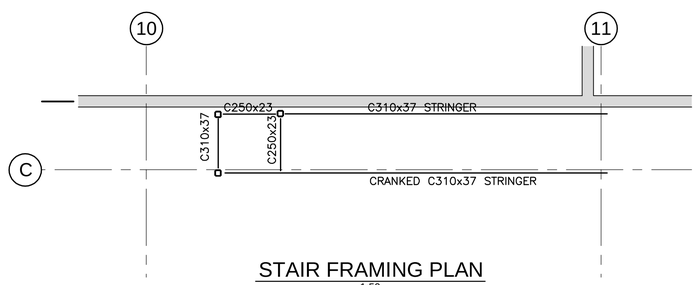


FRAMING PLAN
1:125

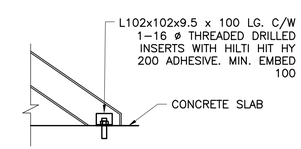
MASONRY COLUMN SCHEDULE	
TYPE	MC1
SIZE	190x390
REINFORCEMENT	4 – 15M VERT – #9 GAUGE WIRE @ 200 WITHIN THE MORTAR JOINT. ADD ADDITIONAL 4–15Mx1200 mm LG. DOWEL INTO CONC. FOUNDATION (TYP)
SECTION SCHEMATIC (NOT TO SCALE)	 DOWEL (TYP)

COLUMN SCHEDULE	
TYPE	SIZE
C1	HSS 102x102x8.0

NOTE: FOR BASE PLATES (BP) SEE SHEET S09



STAIR FRAMING PLAN
1:50



TYP. STAIR STRINGER TO CONC.SLAB CONNECTION DETAIL
1:25

Conditions of Use

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1	30% REVIEW	2019/06/04	K.B.

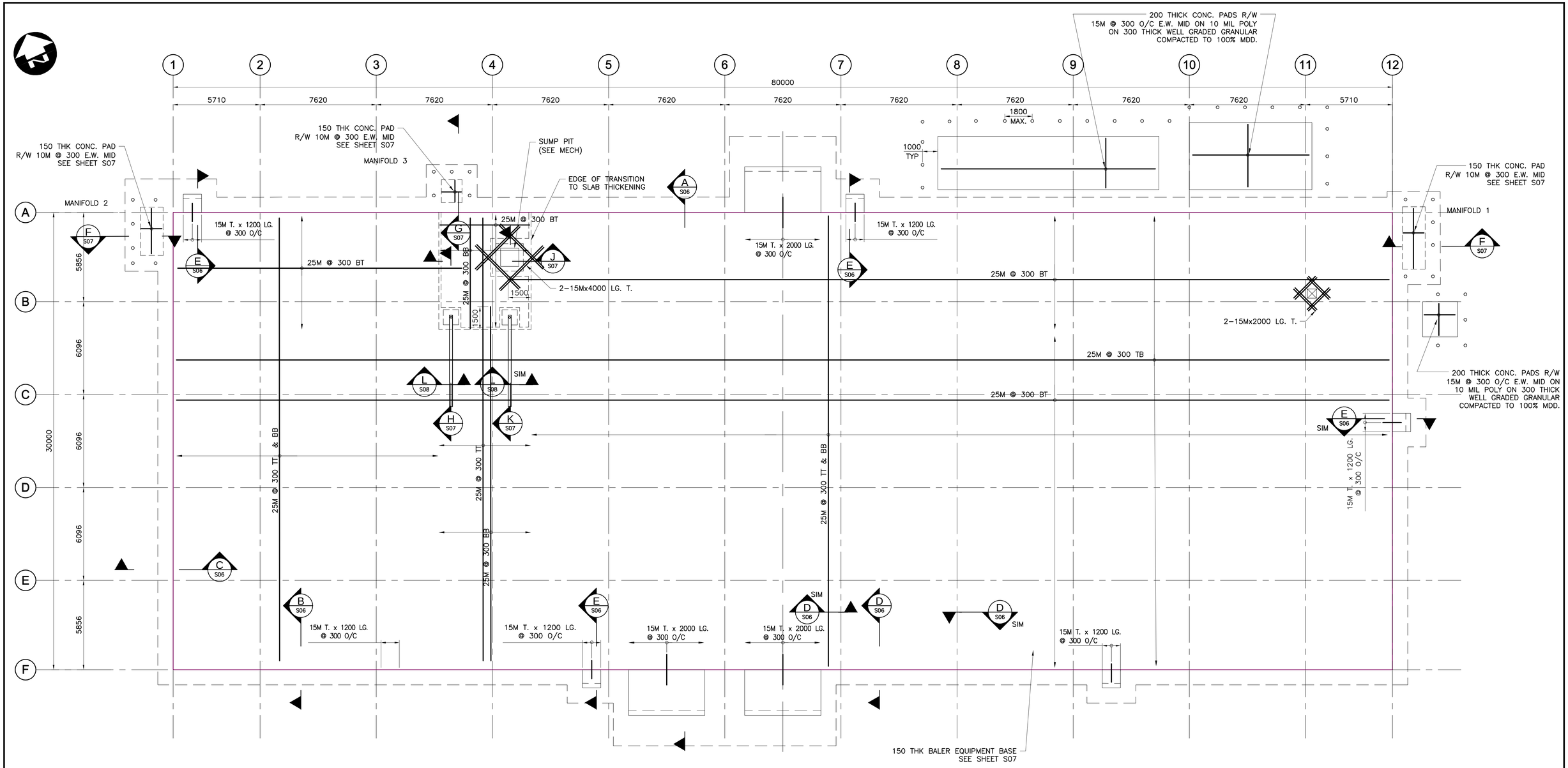
DESIGN: NR | REVIEWED BY: DRA
DRAWN: DJB | CHECKED BY: MBL
DATE: OCT 2019
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

MEZZANINE PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-**S04**



NOTE: FOR CONC. APRON REINF. SEE
SECTIONS ON SHEET S06

SLAB REINFORCING PLAN

1:125

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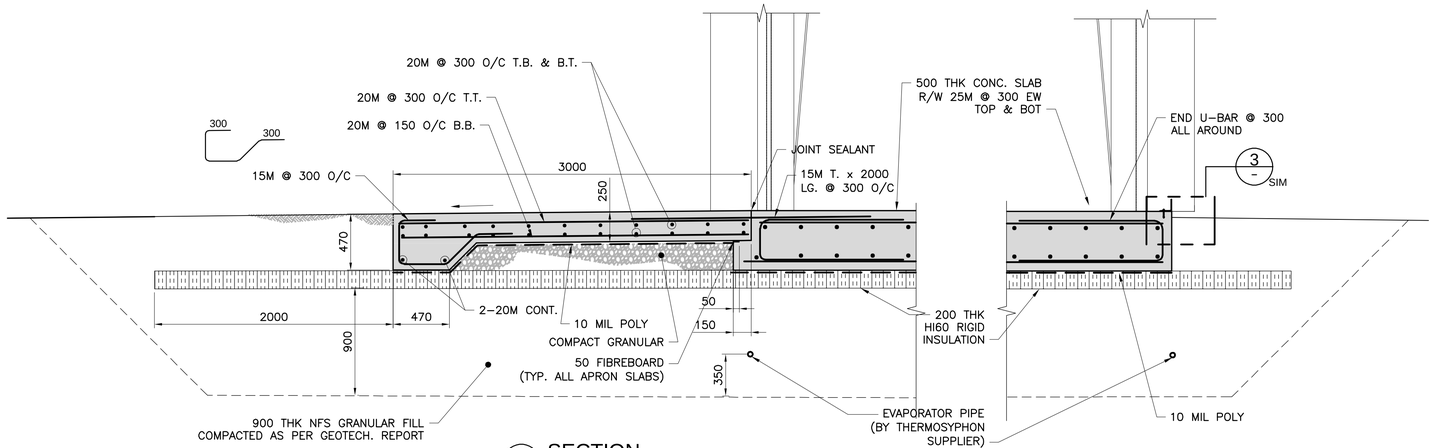
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

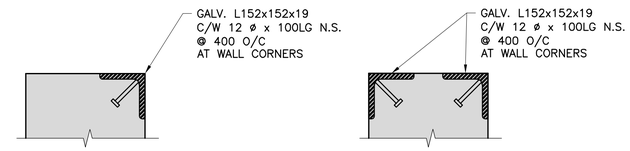
SLAB REINFORCING PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-**S05**

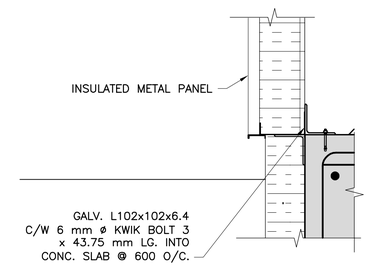


A S02 SECTION 1:25
S03, S05

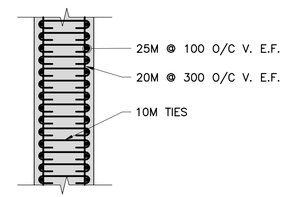


1 S03 DETAIL 1:10

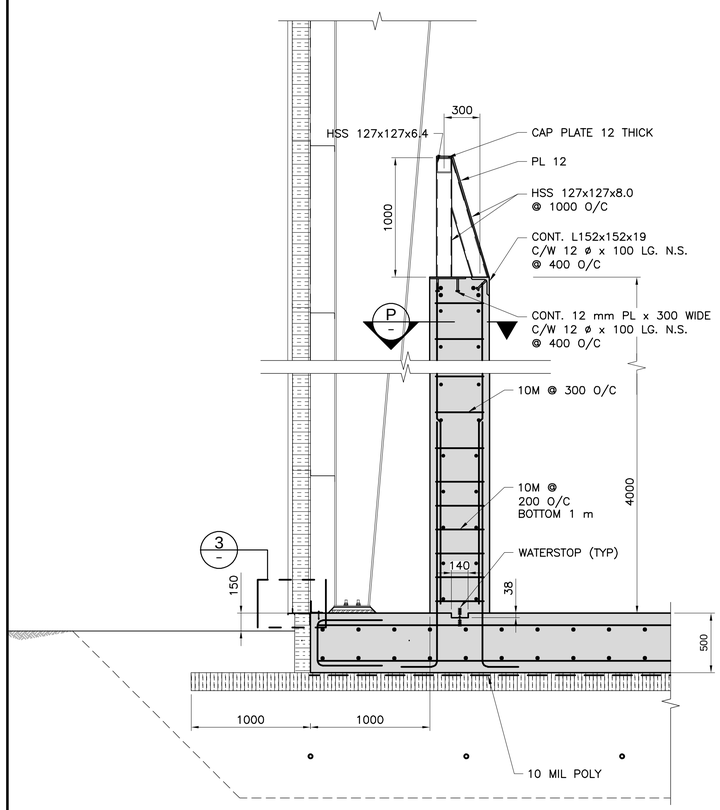
2 S03 DETAIL 1:10



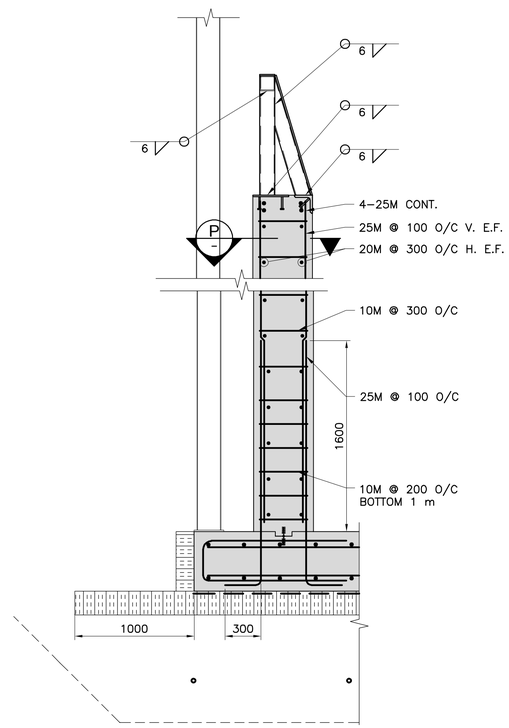
3 - DETAIL 1:10



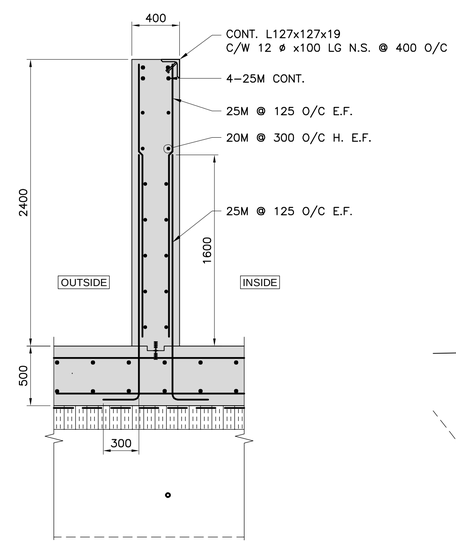
P - SECTION 1:25



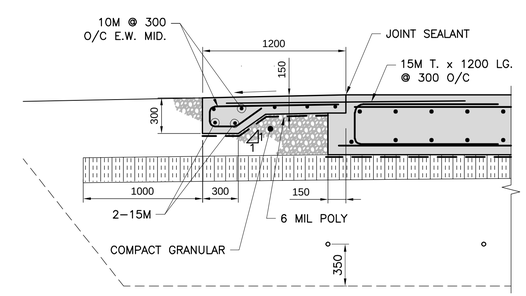
B S03 SECTION 1:25
S05



C S03 SECTION 1:25
S05



D S03 SECTION 1:25
S05



E S02 SECTION 1:25
S03, S05

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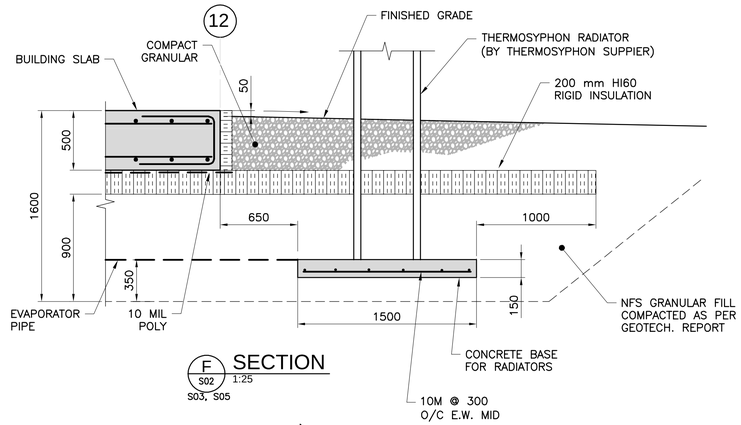
DRAWN DJB	CHECKED BY MBL
DATE OCT 2019	
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

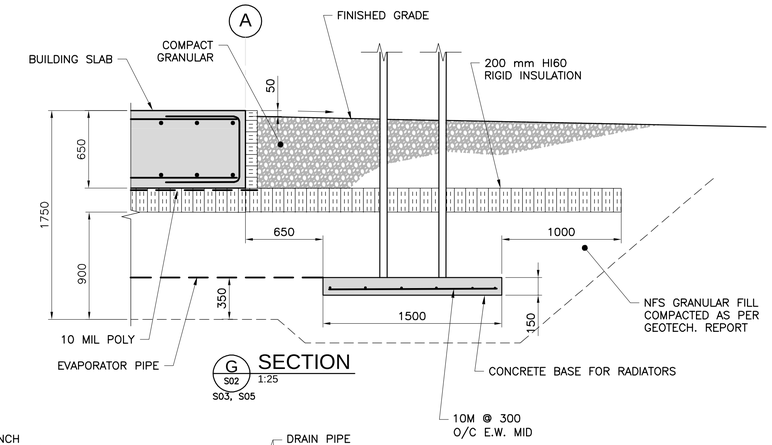
SLAB SECTIONS & DETAILS 1

PROJECT NO. 19-9543

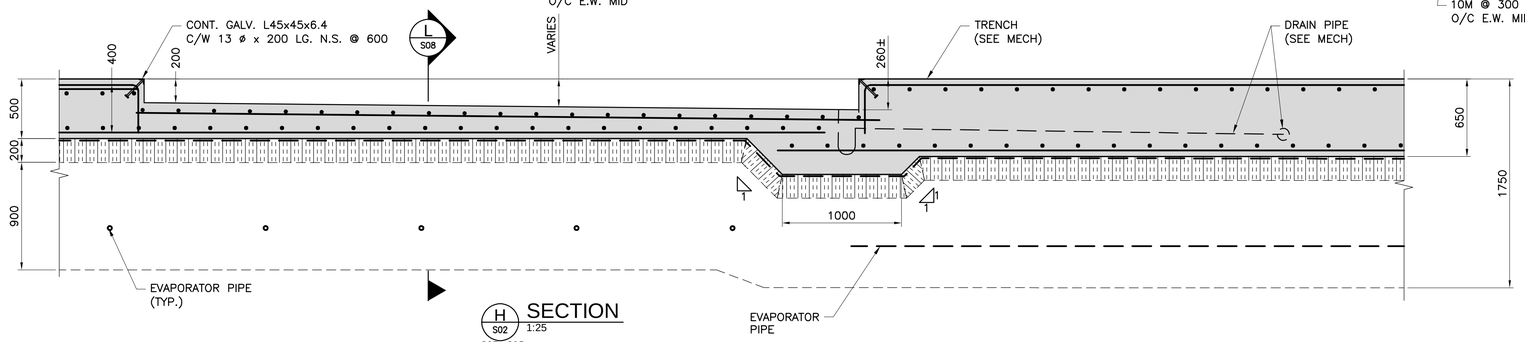
SHEET NO. WTS-**S06**



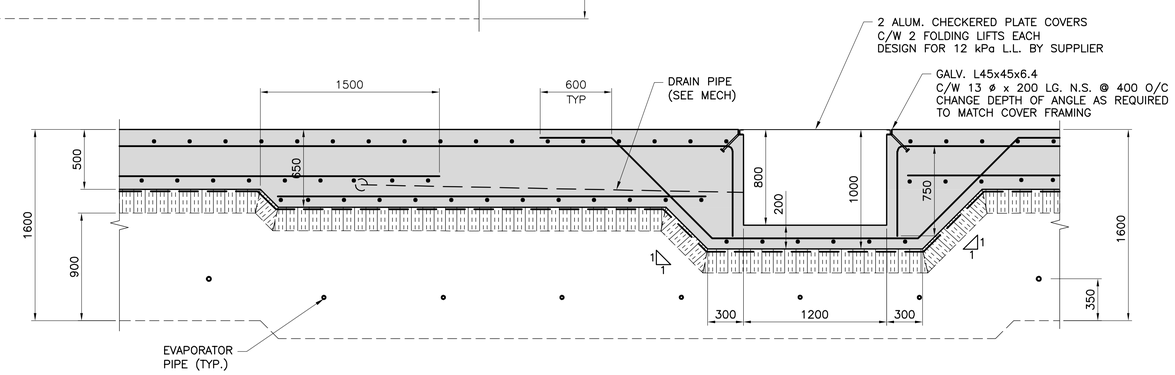
F S02 SECTION 1:25
S03, S05



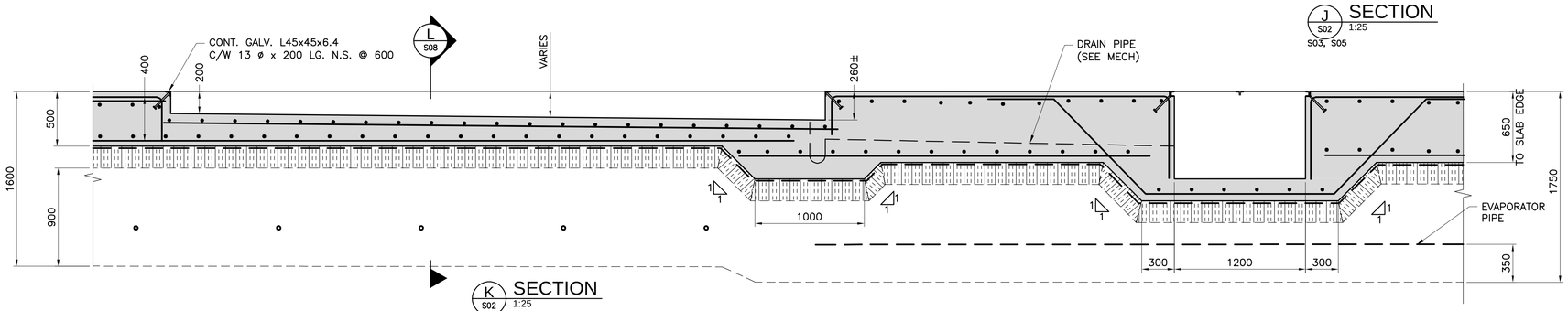
G S02 SECTION 1:25
S03, S05



H S02 SECTION 1:25
S03, S05



J S02 SECTION 1:25
S03, S05



K S02 SECTION 1:25
S03, S05

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DESIGN: NR	REVIEWED BY: DRA
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

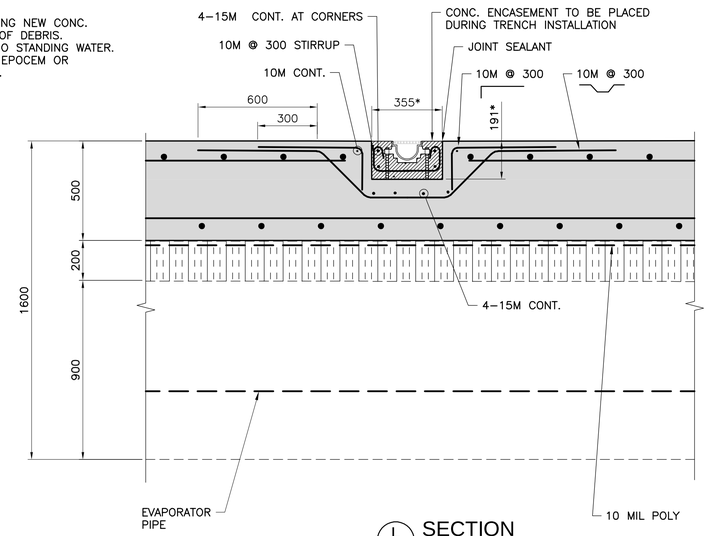
SLAB SECTIONS & DETAILS 2

PROJECT NO. 19-9543

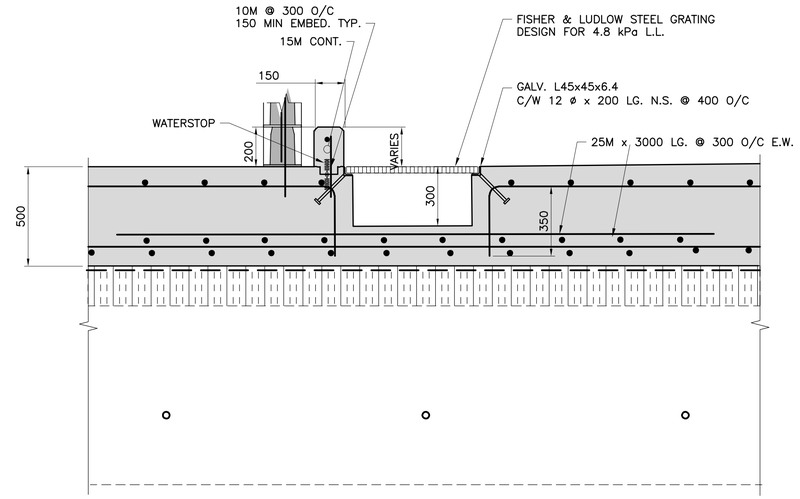
SHEET NO. WTS-**S07**

NOTES:
1. ROUGHEN SURFACE RECEIVING NEW CONC.
2. SURFACE TO BE CLEANED OF DEBRIS.
3. SATURATE SURFACE WITH NO STANDING WATER.
4. APPLY SIKA ARMATEC 110 EPOCEM OR APPROVED BONDING AGENT.

* VERIFY TRENCH DIMENSION PRIOR TO FABRICATION REINF. IF DIMENSIONS ARE DIFF. NOTIFY ENGINEER OF RECORD IMMEDIATELY



L S03 SECTION 1:15
S05, S07



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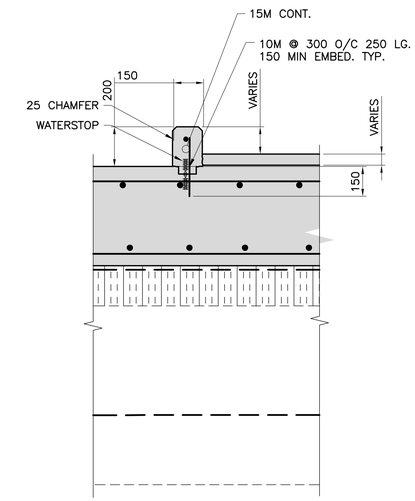
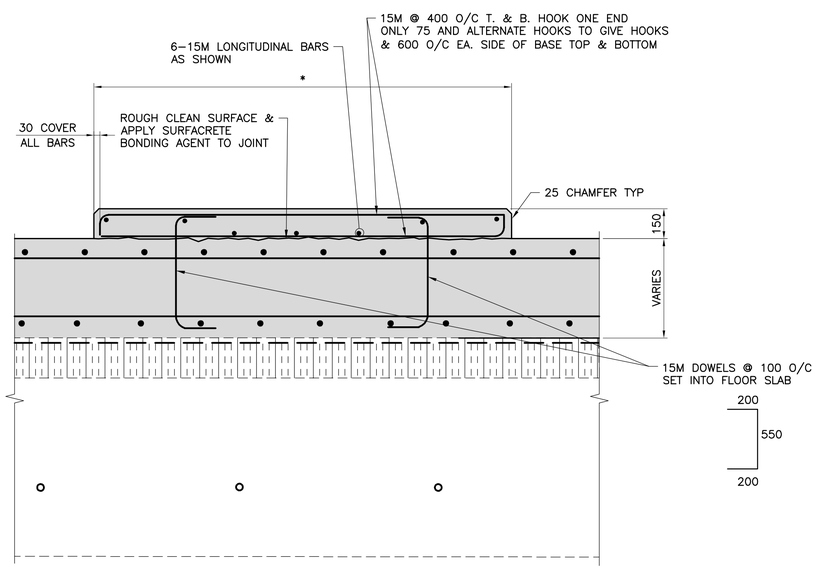
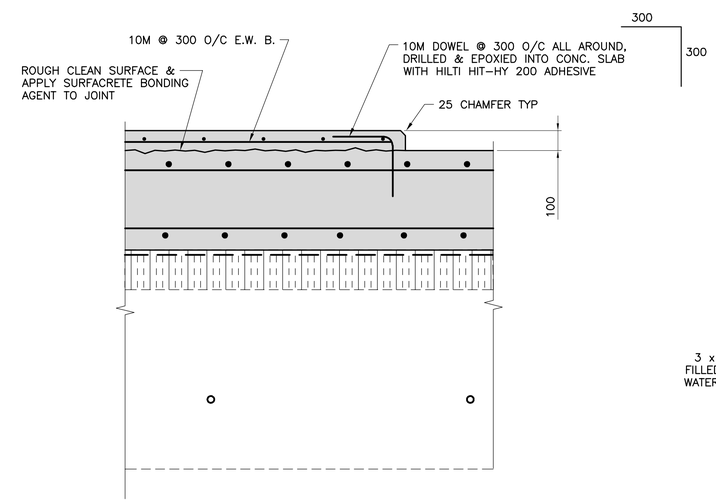


N S03 SECTION 1:15

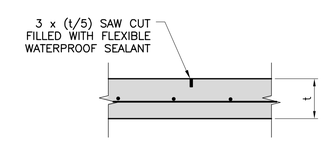


NOTE:
* DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AGAINST FINAL APPROVED EQUIPMENT SHOP DRAWINGS AND ADJUSTED FOR ACCURATE FIT & LOCATION

BALER HOUSEKEEPING PAD
1:15



HOUSEKEEPING PAD
1:15



CONTROL JOINT DETAIL
1:15

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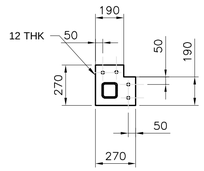
DESIGN: NR	REVIEWED BY: DRA
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

SLAB SECTIONS & DETAILS 3

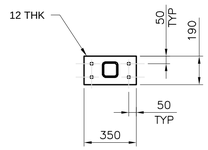
PROJECT NO. 19-9543

SHEET NO. WTS-**S08**



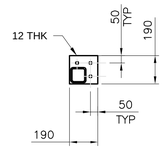
GALV. PLATE C/W 4-12x137
SS304 KB-TZ EXP. ANCHORS

BP1 DETAIL
1:20



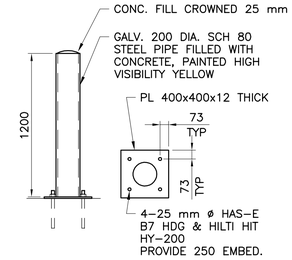
GALV. PLATE C/W 4-12x137
SS304 KB-TZ EXP. ANCHORS

BP2 DETAIL
1:20

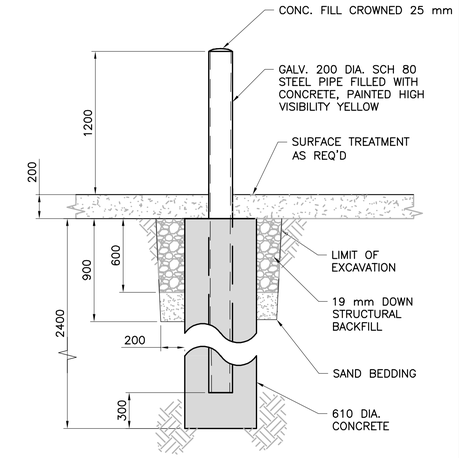


GALV. PLATE C/W 3-12x137
SS304 KB-TZ EXP. ANCHORS

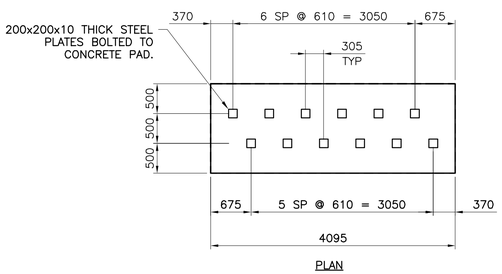
BP3 DETAIL
1:20



BOLLARD DETAIL "B1"
1:20

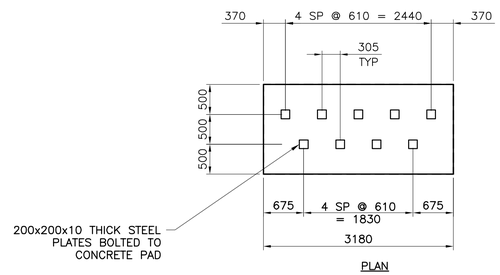


BOLLARD DETAIL "B2"
N.T.S.



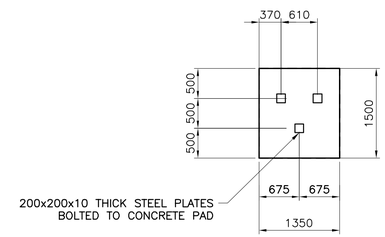
PLAN

MANIFOLD 1
THERMOSYPHON PAD DETAIL
1:125
FOR REINF. SEE SECTION G SHEET S07



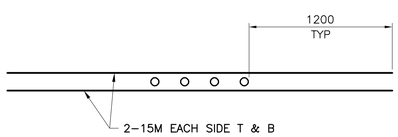
PLAN

MANIFOLD 2
THERMOSYPHON PAD DETAIL
1:125
FOR REINF. SEE SECTION G SHEET S07



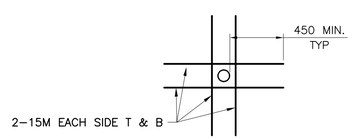
PLAN

MANIFOLD 3
THERMOSYPHON PAD DETAIL
1:50
FOR REINF. SEE SECTION H SHEET S07



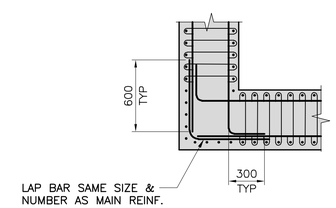
PLAN

ADDITIONAL SLAB REINFORCEMENT WITH FOUR OR MORE SLEEVES
1:25



PLAN

REINFORCEMENT AROUND SLEEVES WITH DIAMETER LARGER THAN 100 mm
1:25



TYPICAL CORNER REINFORCING
1:25
500 PUSH WALL SHOWN
400 CONC. WALL SIMILAR, WITHOUT TIES

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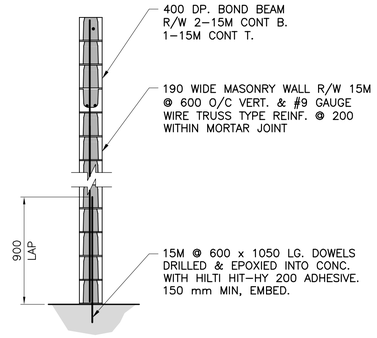
DESIGN	NR
REVIEWED BY	DRA
DRAWN	DJB
CHECKED BY	MBL
DATE	OCT 2019
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

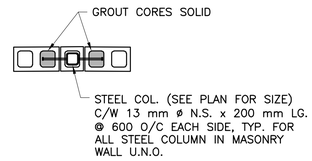
BASE PLATES, MANIFOLDS & TYPICAL DETAILS

PROJECT NO. 19-9543

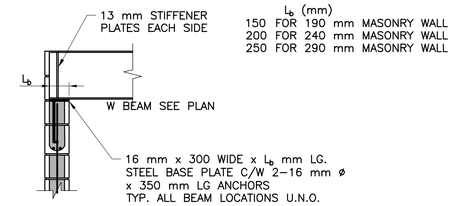
SHEET NO. WTS-**S09**



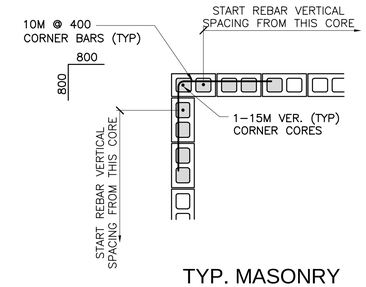
TYP. MASONRY WALL REINFORCING
1:25



TYP. STEEL COLUMN IN MASONRY WALL PLAN DETAIL
1:25



TYP. STEEL BEAM BEARING ON MASONRY WALL
1:25



TYP. MASONRY CORNER REINFORCING
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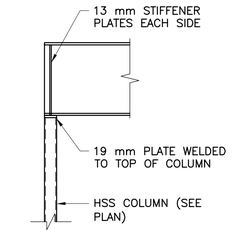
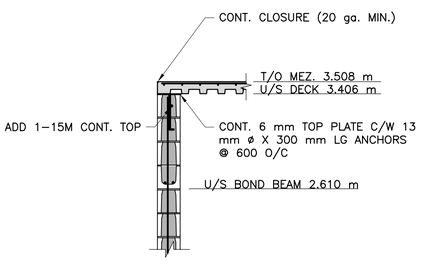


TYP. STEEL BEAM ON HSS COLUMN
1:25



MA S04 SECTION
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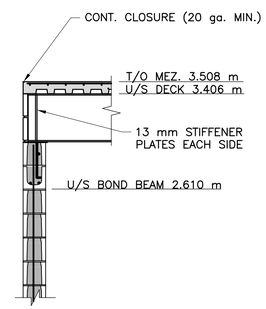

MB S04 SECTION
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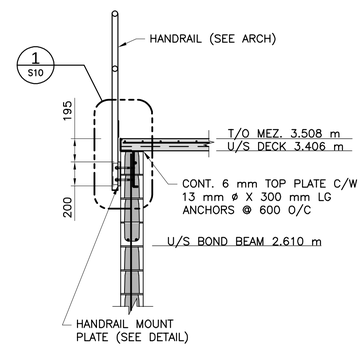

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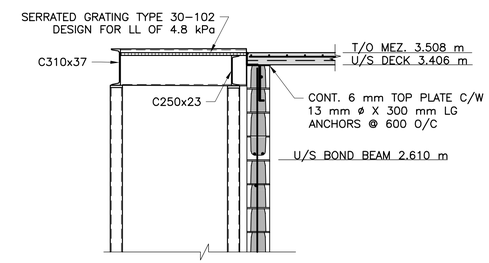

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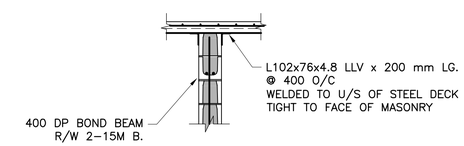

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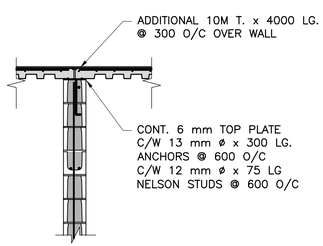

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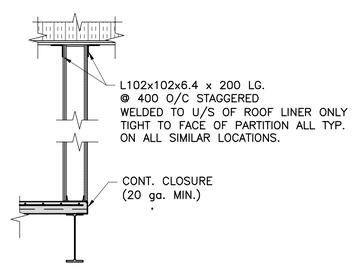

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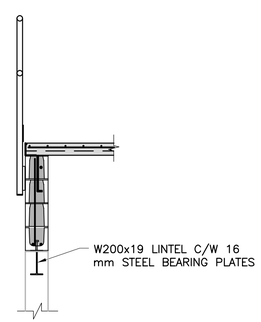

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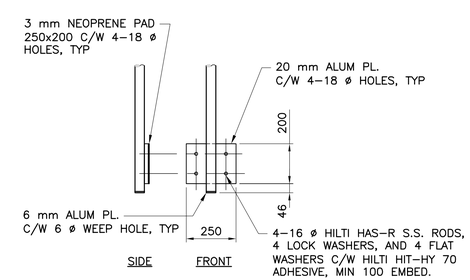

1 S10 HAND RAIL MOUNT PLATE DETAIL
1:15

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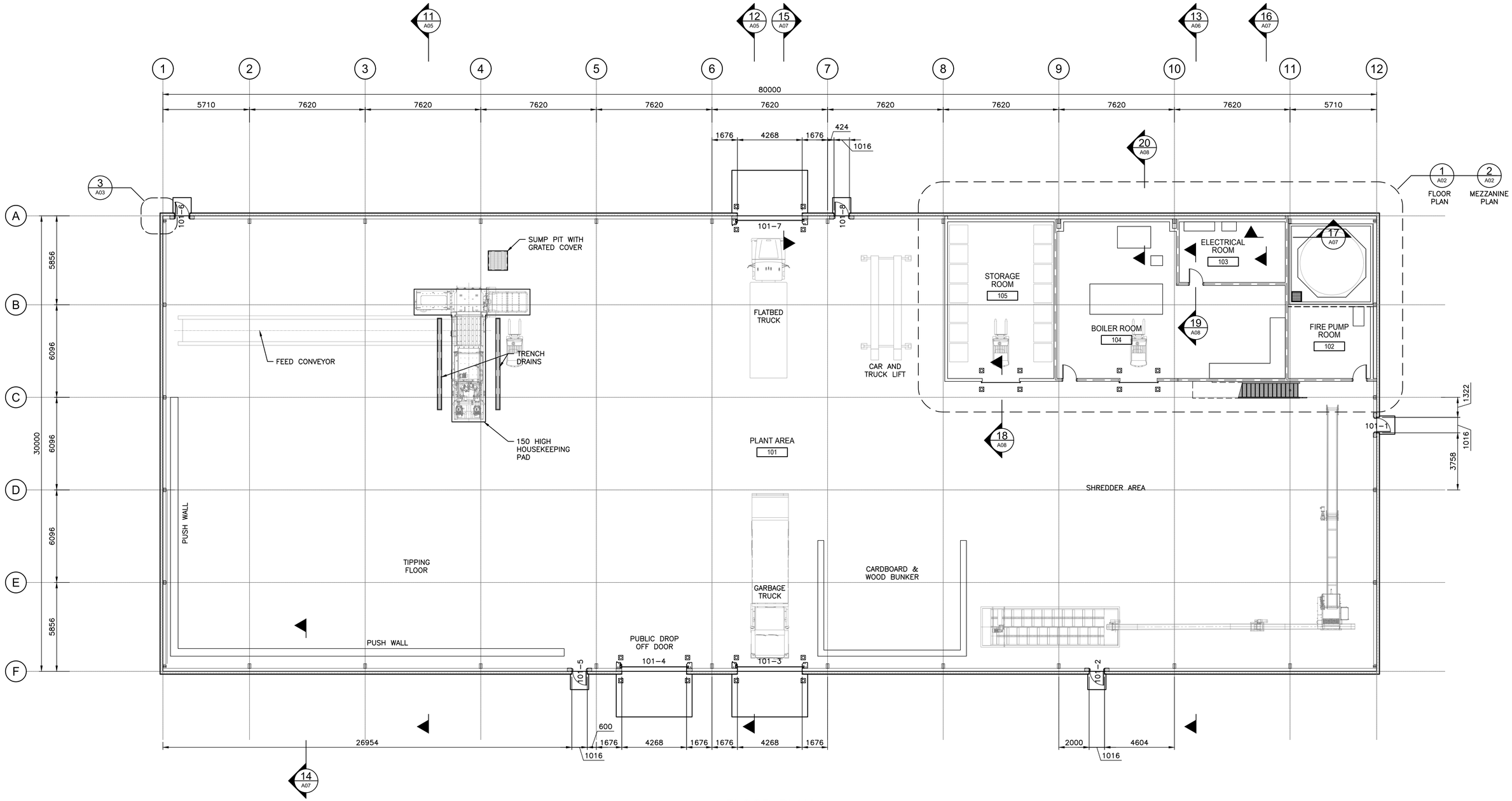
DRAWN: DJB	CHECKED BY: MBL
DATE: OCT 2019	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

MEZZANINE SECTIONS & DETAILS

PROJECT NO. 19-9543

SHEET NO. WTS-**S10**



FLOOR PLAN
1:125

SCALE 1:125 METRES

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REVIEWED BY:
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

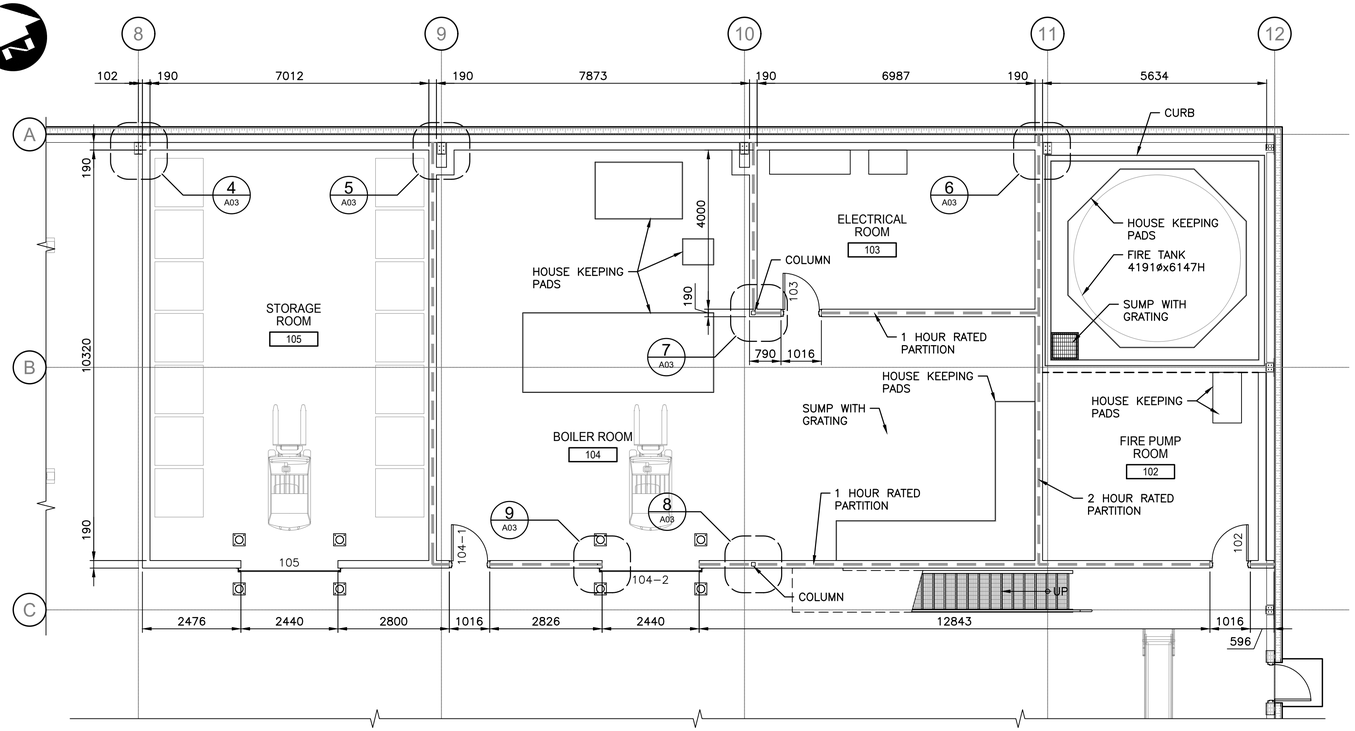
CITY OF IQALUIT
WASTE TRANSFER STATION

FLOOR PLAN

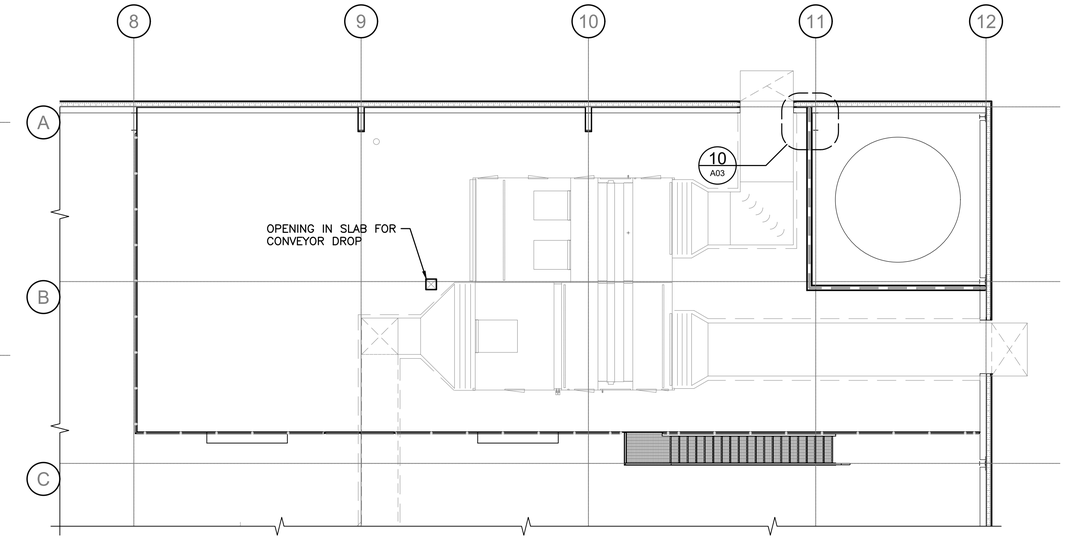
PROJECT NO. 19-9543

SHEET NO. WTS-A01

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\1DPDR\DMS12728\199543-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:52:26 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



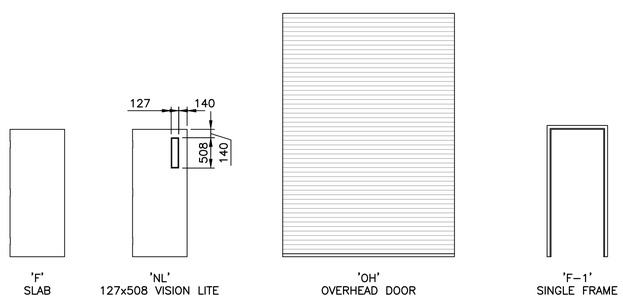
1 A01 FLOOR PLAN
1:75



2 A01 MEZZANINE PLAN
1:100

ROOM FINISH SCHEDULE

ROOM No.	NAME	FLOOR		BASE	WALLS		CEILINGS			REMARKS
		MATERIAL	FINISH		MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
101	PLANT AREA	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
102	FIRE PUMP ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
103	ELECTRICAL ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
104	BOILER ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
105	STORAGE ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
106	MEZZANINE AREA	CONC	HDR	–	LP	PNT	LP	PREFIN	–	



DOOR FRAME ELEVATIONS
1:50

DOOR, FRAME AND HARDWARE SCHEDULE

NUMBER	FROM	TO	SWING	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FINISH	FRAME RATING	FRAME DETAIL	REMARKS	HDW PKG
101–1	101	EXT	RH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 1
101–2	101	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 2
101–3	101	EXT	–	OH	4268	6096	45										
101–4	101	EXT	–	OH	4268	6096	45										
101–5	101	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 1
101–6	101	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 2
101–7	101	EXT	–	OH	4268	6096	45										
101–8	101	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 1
102	101	102	RH	A	914	2134	45	HM	PT		F1	HM	PT	1.5 HR			PKG 3
103	101	103	RH	A	914	2134	45	HM	PT		F1	HM	PT	3/4 HR			PKG 3
104–1	101	104	LH	A	914	2134	45	HM	PT		F1	HM	PT	3/4 HR			PKG 3
104–2	101	105	–	OH	2438	2400		STEEL	PREFIN					3/4 HR			
105	101	105	–	OH	2438	2400		STEEL	PREFIN								

HARDWARE PACKAGE 1
3 HINGES (NR PINS)
1 EXIT DEVICE
1 RIM CYLINDER
1 CORE ONLY
1 CLOSER
1 DOOR PULL
1 KICK PLATE
1 THRESHOLD
1 WEATHERSTRIP
1 DOOR SWEEP

HARDWARE PACKAGE 2
3 HINGES (NR PINS)
1 EXIT DEVICE
1 CLOSER
1 KICK PLATE
1 THRESHOLD
1 WEATHERSTRIP
1 DOOR SWEEP

HARDWARE PACKAGE 3
3 HINGES
1 PASSAGE SET
1 CLOSER
1 KICK PLATE

WALL / PARTITION SCHEDULE

TYPE	DESCRIPTION
W1	38 PREFINISHED METAL SIDING 152 SEMI RIGID INSULATION (R19) WITH NOTCHED Z SUB GIRTS 16 METAL LINER PANEL / VAPOUR BARKIER 203 Z GIRTS
P1	190 CONCRETE BLOCK HEAVY DUTY HORIZONTAL REINFORCING EVERY SECOND COURSE 15M VERTICAL REINFORCING @ 400 O.C. 2 COURSE BOND BEAM WITH 2–15M CONTINUOUS BARS IN EACH
P2	FIRE RATED GYPSUM BOARD ASSEMBLY

ABBREVIATIONS

CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
EXT	EXTERIOR
HDR	HARDENER
HM	HOLLOW METAL
HR	HOUR
HWD	HARDWARE
GWB	GYPSUM WALL BOARD
LH	LEFT HAND
LP	LINER PANEL
MTL	METAL
NR	NON–REMOVABLE
NL	NARROW LITE
OH	OVERHEAD
PKG	PACKAGE
PREFIN	PREFINISHED
PT	PAINT
RH	RIGHT HAND
TBHM	THERMALLY BROKEN HOLLOW METAL
U/S	UNDERSIDE
VT	VINYL TILE

1.5 0 1.5 SCALE 1:75 METRES

2 0 2 SCALE 1:100 METRES

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DESIGN JAA | REVIEWED BY
DRAWN PDR | CHECKED BY
DATE OCT 2019
SCALE NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

ENLARGED FLOOR PLAN, MEZZANINE PLAN, SCHEDULES, DOOR, FRAME ELEVATIONS ABBREVIATIONS

PROJECT NO. 19-9543

SHEET NO. WTS-A02

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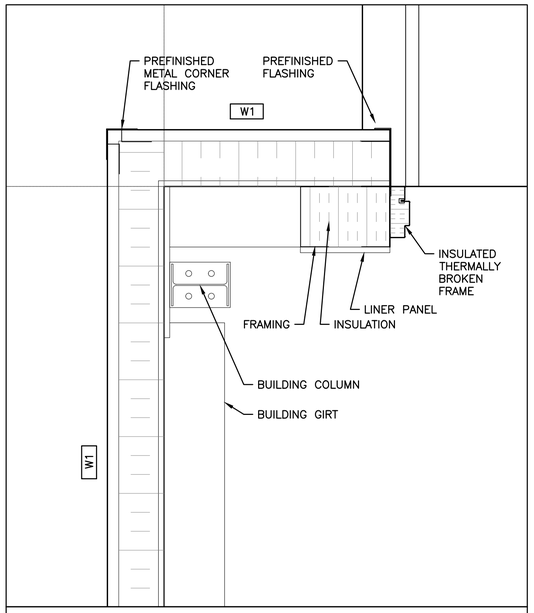
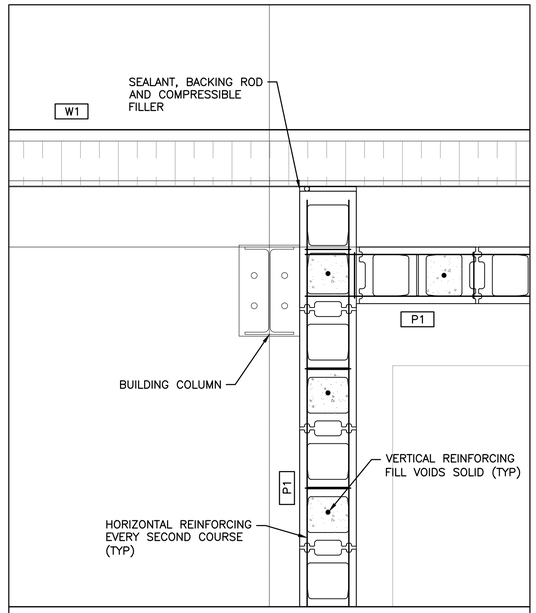


3 A01 DETAIL 1:10



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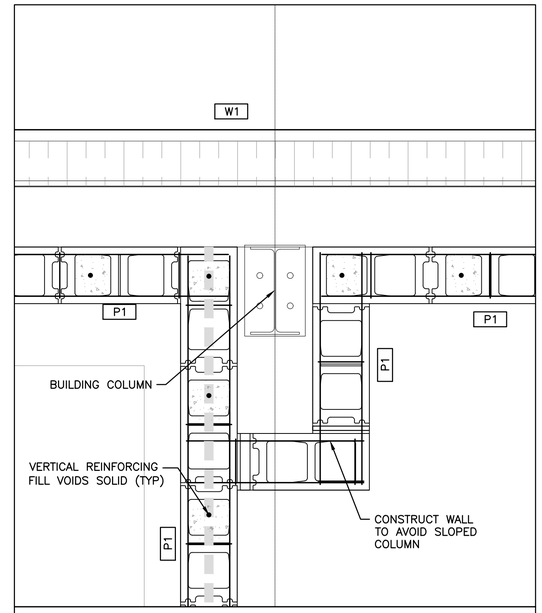

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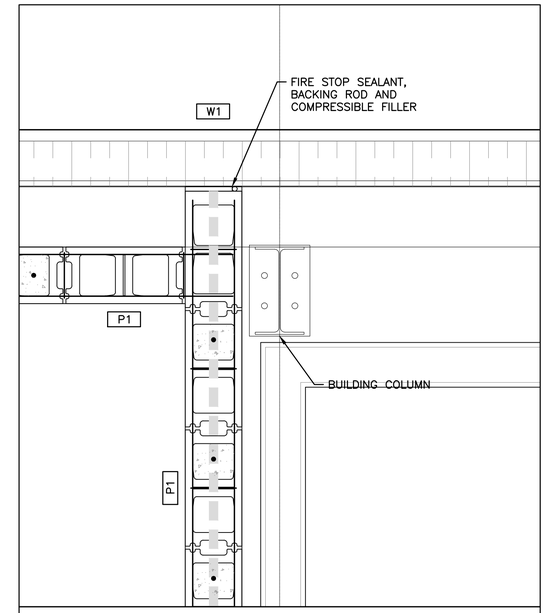

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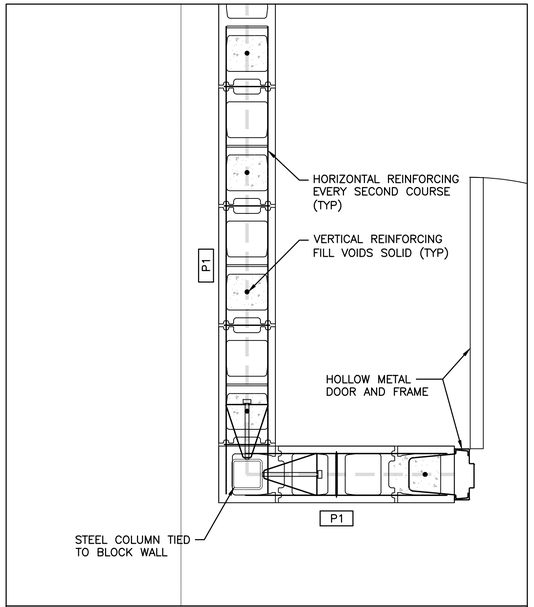

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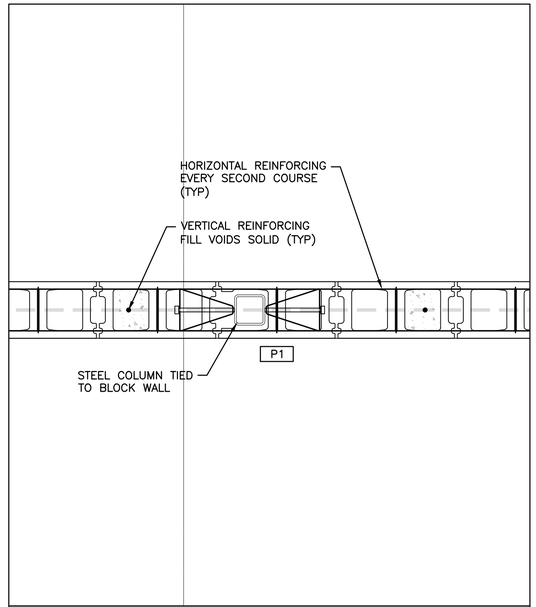

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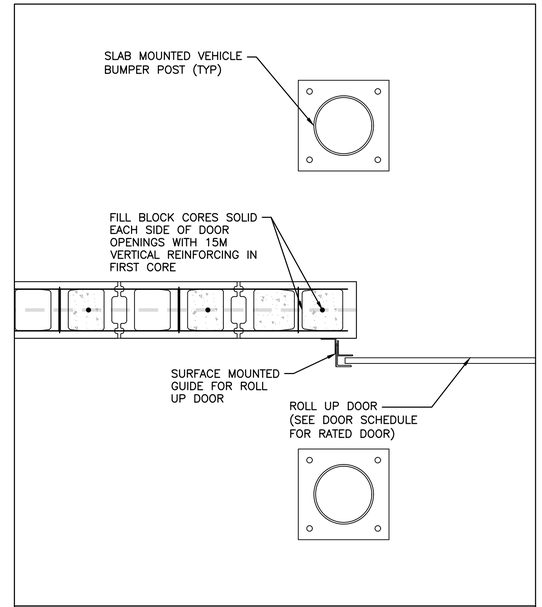

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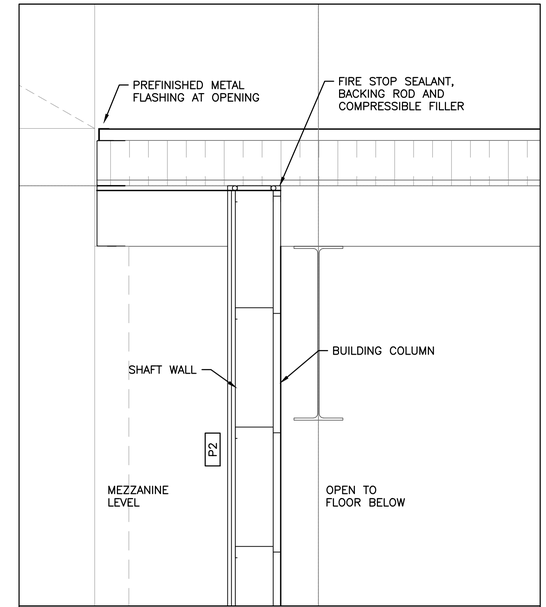

10 A02 DETAIL 1:10

0.2 0 0.2
SCALE 1:10 METRES

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA | REVIEWED BY:
DRAWN: PDR | CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PLAN DETAILS

PROJECT NO. 19-9543

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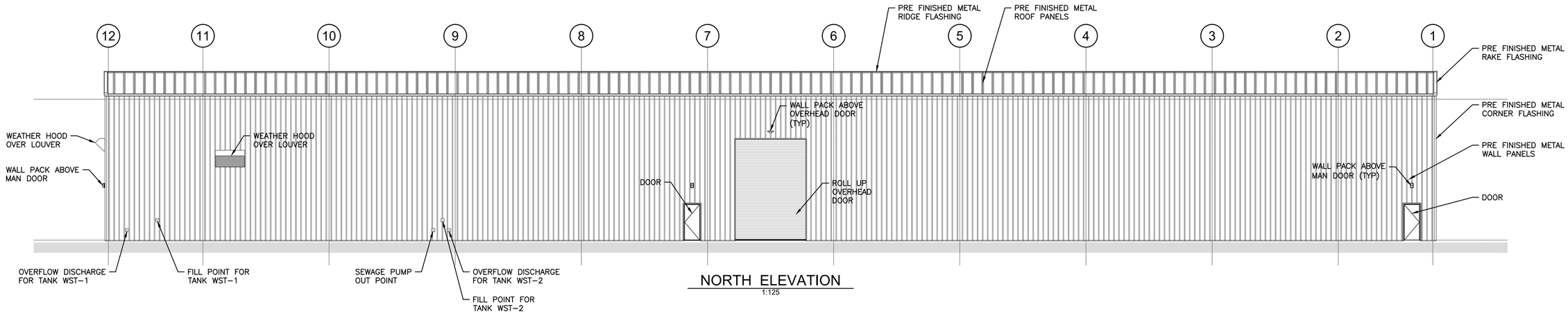
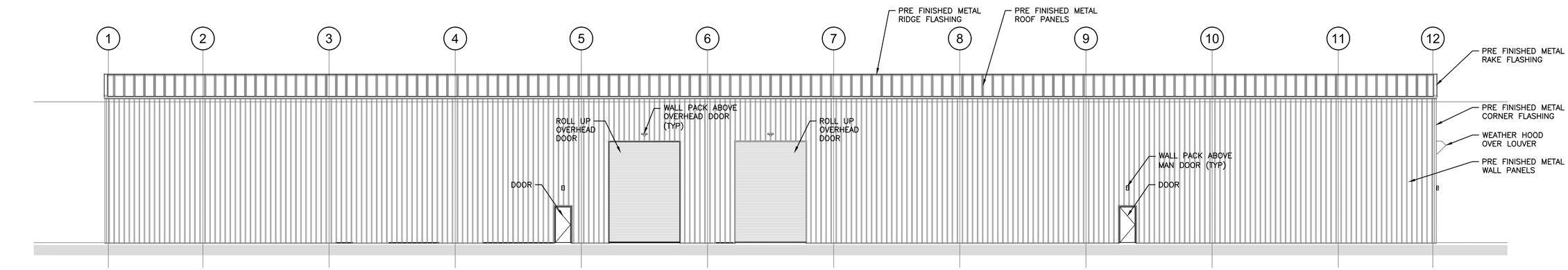
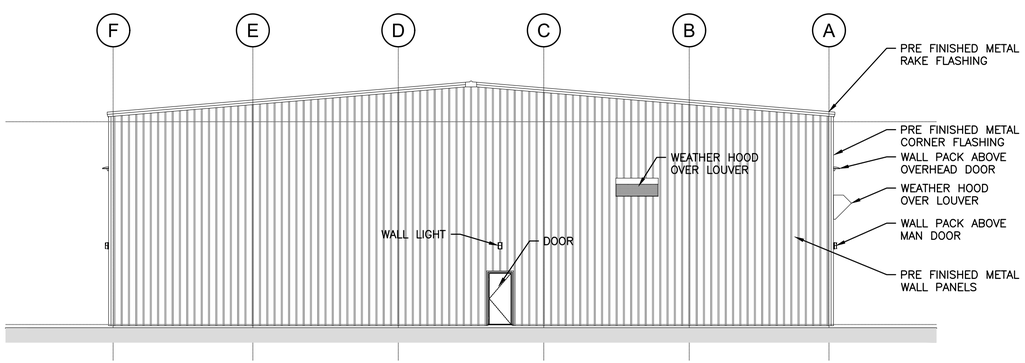
PLOT DATE: 2020-01-24 @ 11:52:59 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



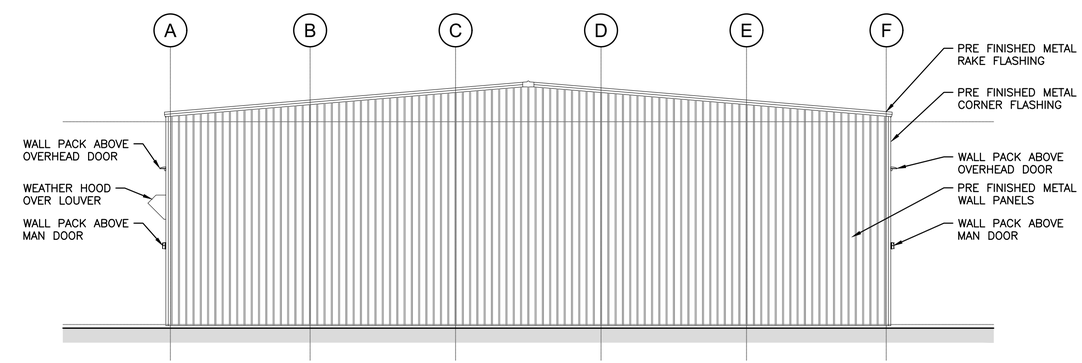
NORTH ELEVATION
1:125



SOUTH ELEVATION
1:125



EAST ELEVATION
1:125



WEST ELEVATION
1:125

2.5 0 2.5
SCALE 1:125 METRES

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

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3	90% REVIEW	2020/01/24	K.B.
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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA
REVIEWED BY:
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

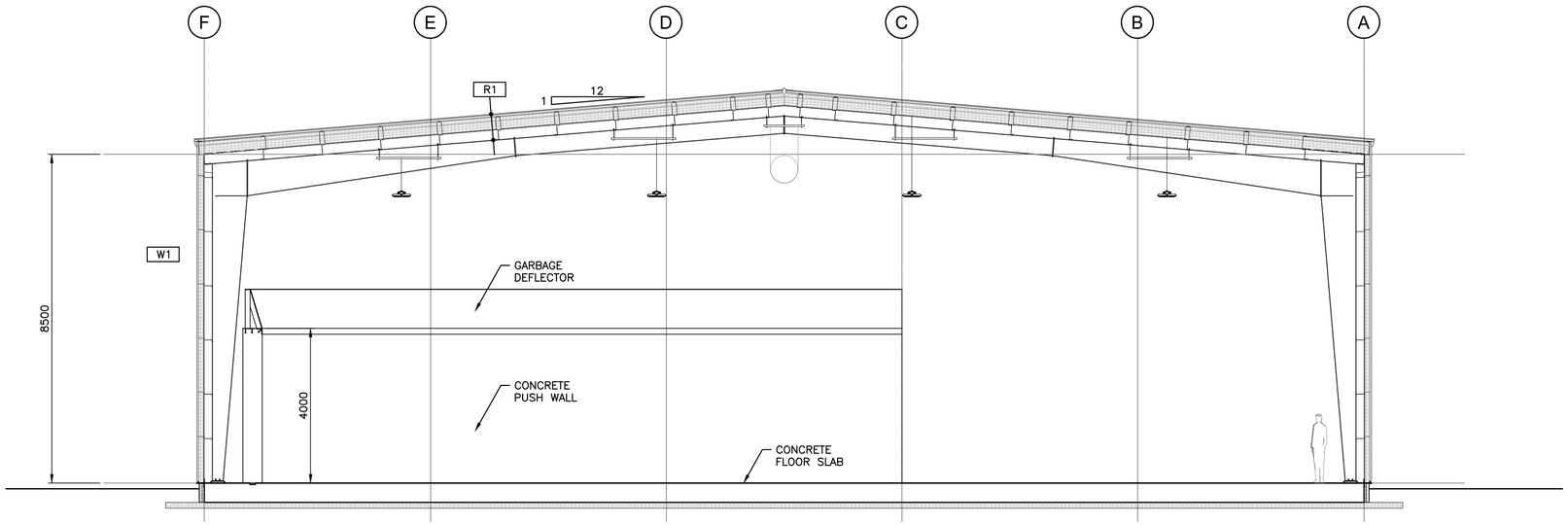
BUILDING ELEVATIONS

PROJECT NO. 19-9543

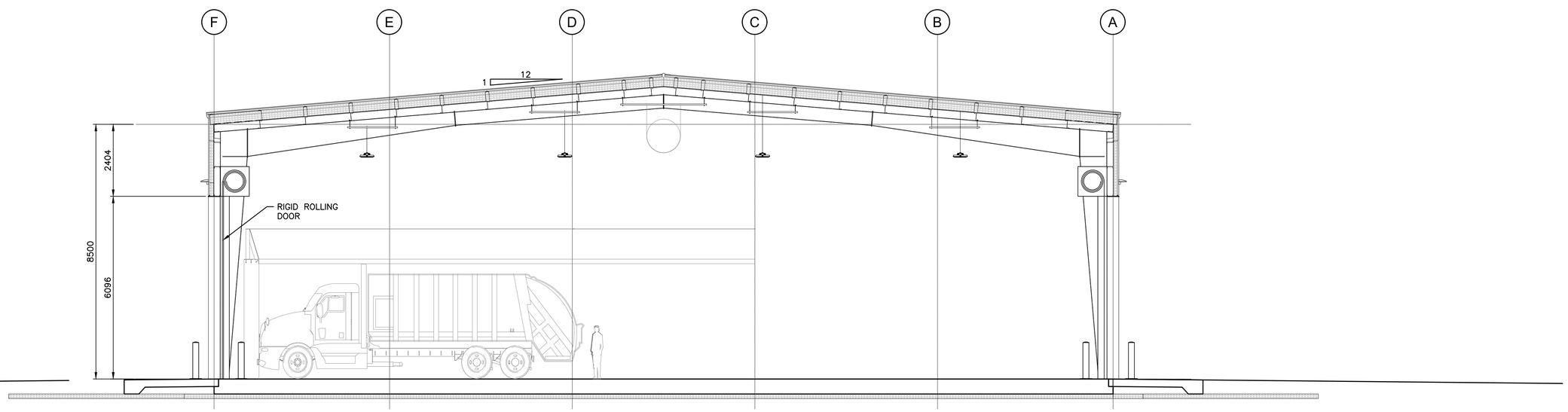
SHEET NO. WTS-A04

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS_2019\10PDR\DMS12728\19954-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:52:41 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

ROOF SCHEDULE	
TYPE	DESCRIPTION
R1	38 STANDING SEAM ROOF PANELS 51 HAT CHANNELS THERMAL HAT CLIPS TO PROVIDE DEPTH FOR R40 INSULATION R40 SEMI RIGID INSULATION 16 LINER PANE / VAPOUR BARRIER 254 ROOF PURLINS



11 A01 SECTION 1:75



12 A01 SECTION 1:75

1.5 0 1.5
SCALE 1:75 METRES

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA
REVIEWED BY:
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

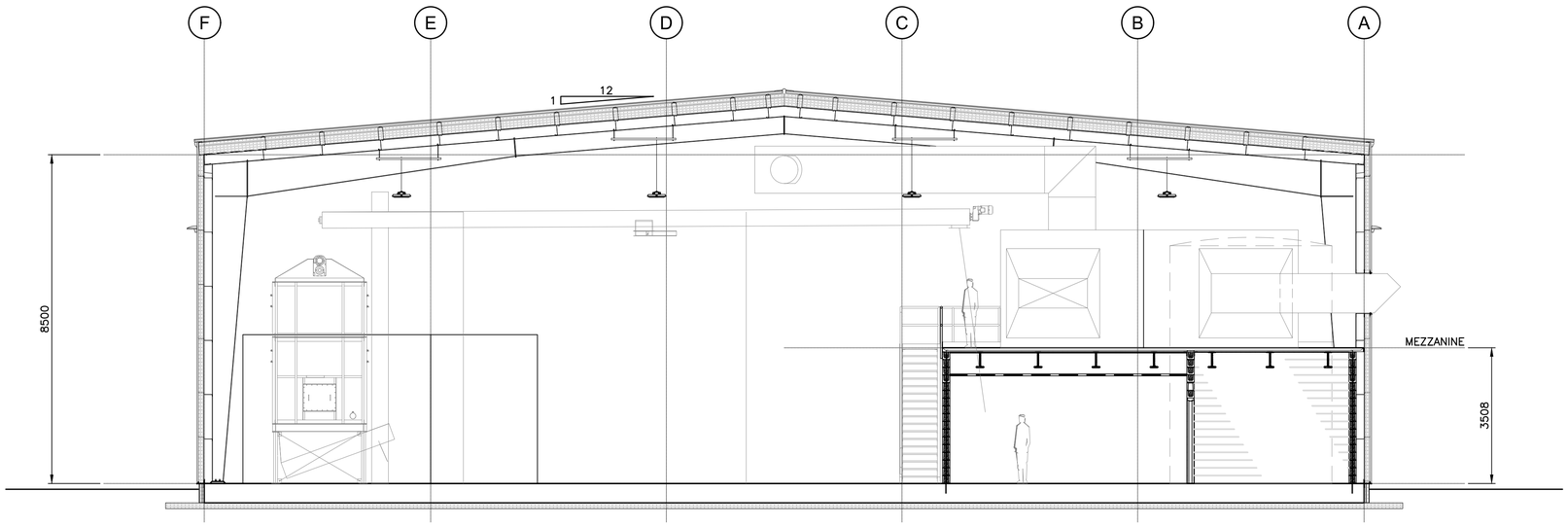
CITY OF IQALUIT
WASTE TRANSFER STATION

CROSS SECTIONS SHEET 1

PROJECT NO. 19-9543

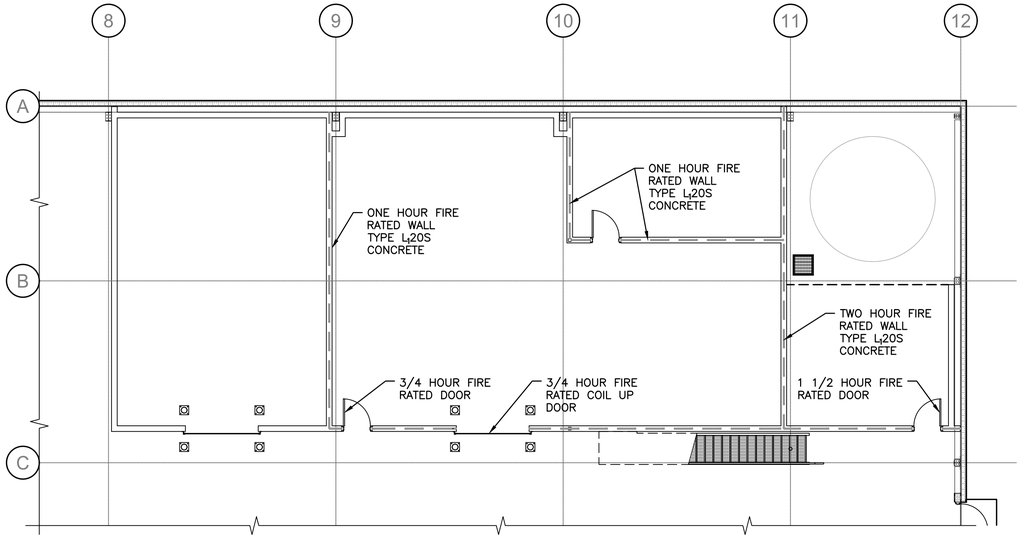
SHEET NO. WTS-A05

FILENAME: C:\PROJECTWSE\WORKING DIRECTORY\PROJECTS 2019\UPDR\DMS12728\199543-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:52:43 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

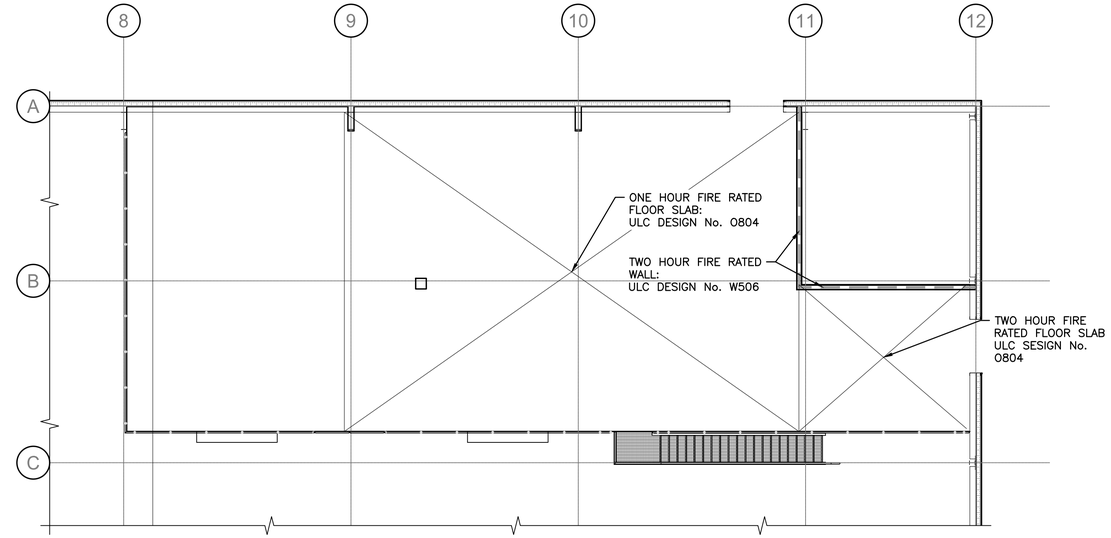


13 A01 SECTION
1:75

SCALE 1:75 METRES



FIRE RATING FLOOR PLAN
1:100



FIRE RATING MEZZANINE PLAN
1:100

SCALE 1:100 METRES

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DRAWN: FDR | CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

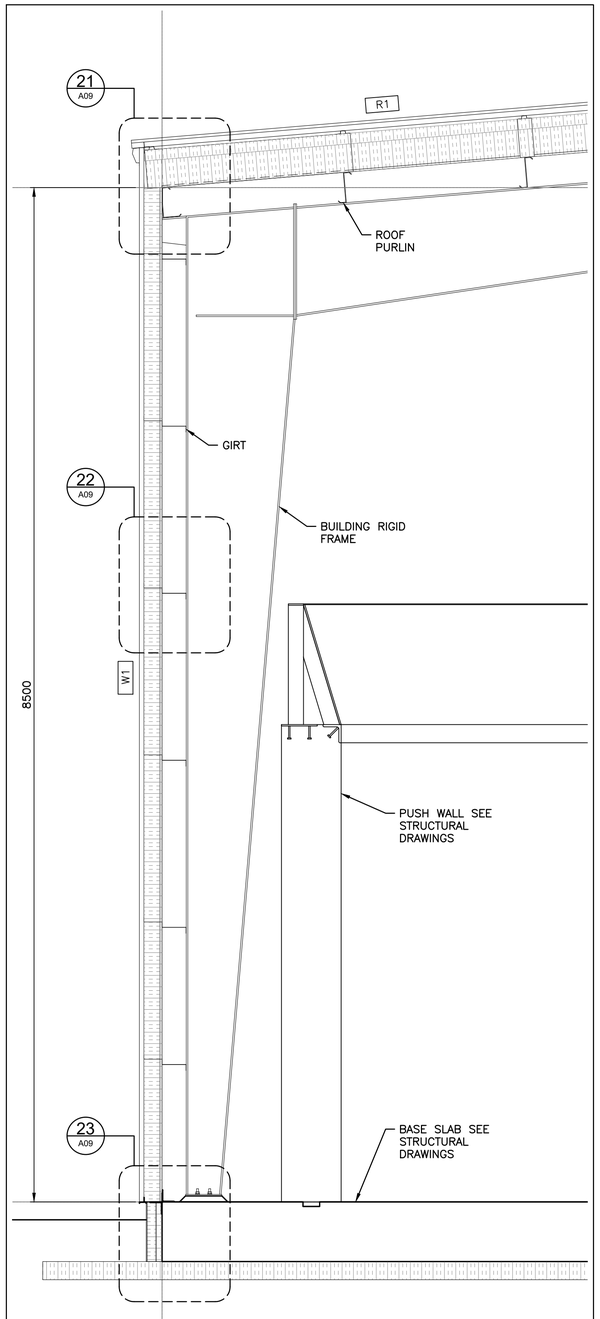
CITY OF IQALUIT
WASTE TRANSFER STATION

CROSS SECTIONS SHEET 2
FIRE RATED ASSEMBLY PLANS

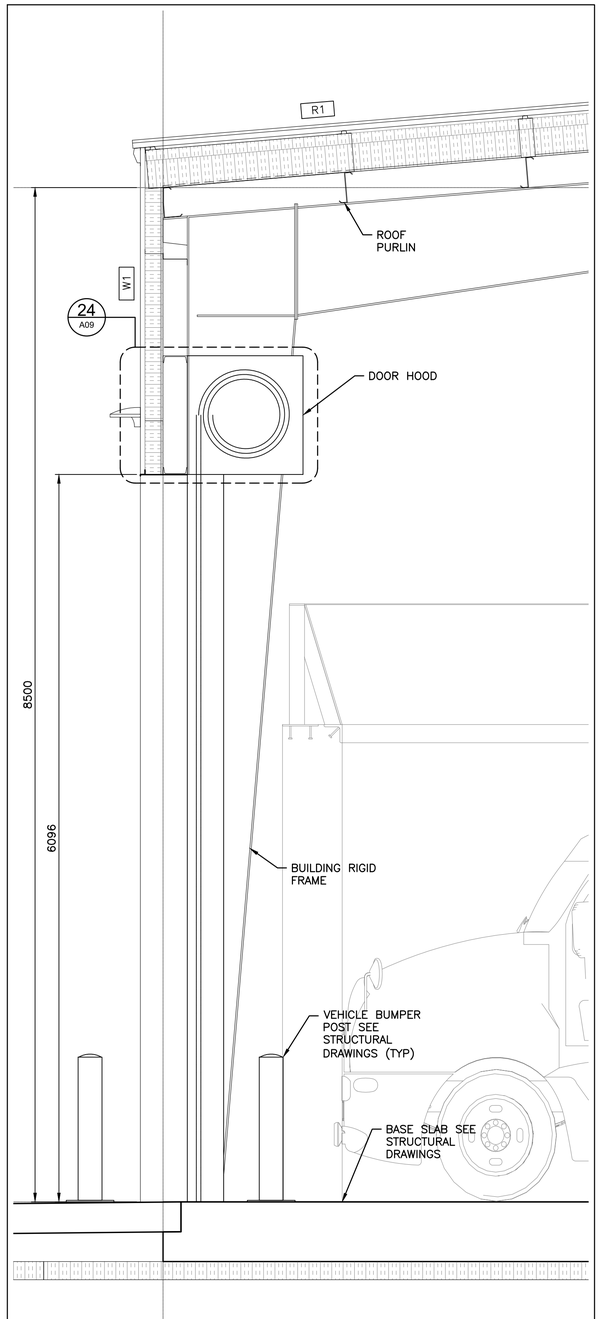
PROJECT NO. 19-9543

SHEET NO. WTS-A06

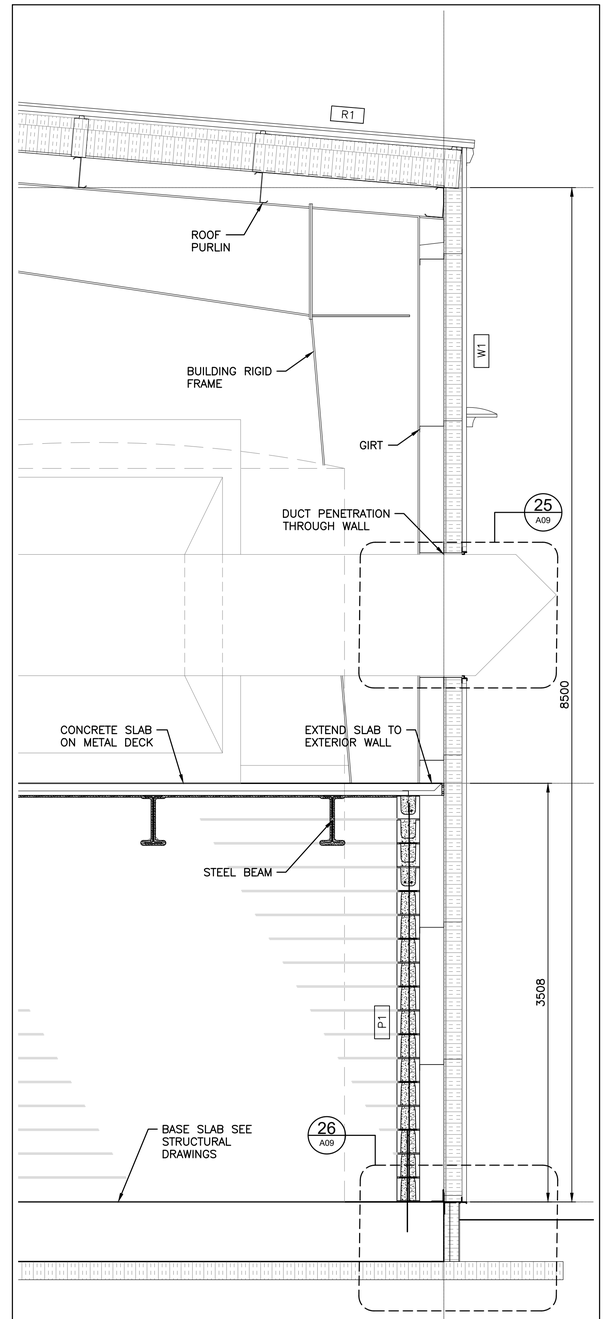
FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\10PDR\DMS12728\19954S-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:52:47 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



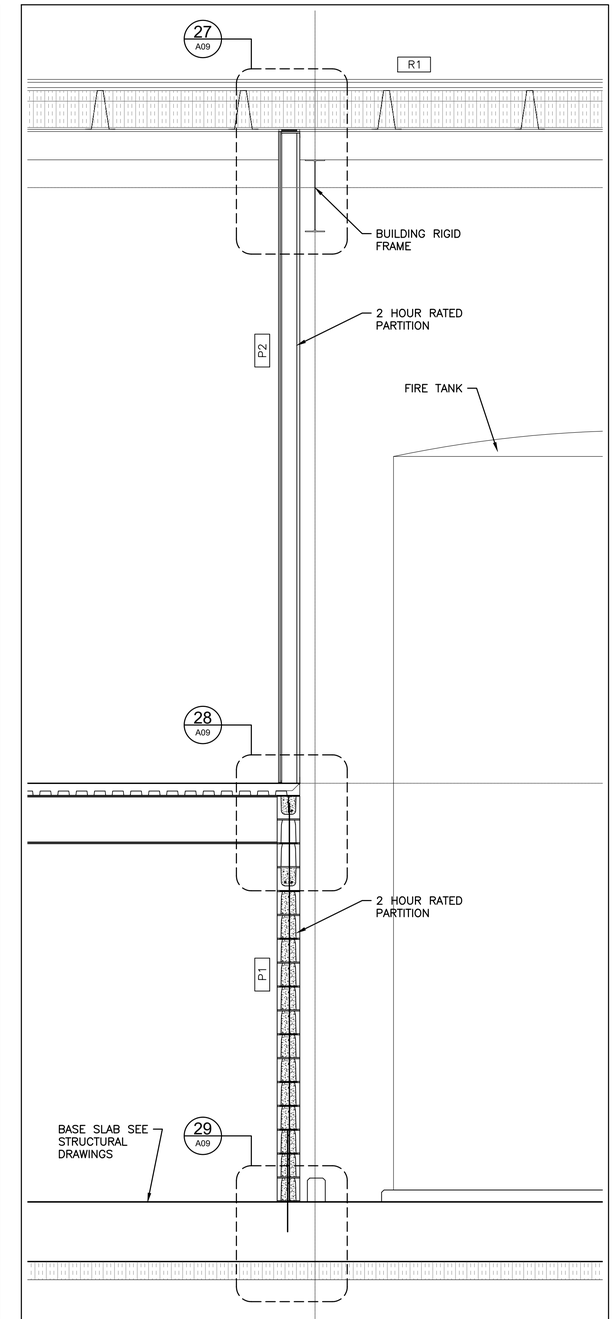
14 A01 SECTION 1:25



15 A01 SECTION 1:25



16 A01 SECTION 1:25



17 A01 SECTION 1:25

0.5 0 0.5
SCALE 1:25 METRES

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3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA
REVIEWED BY:
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

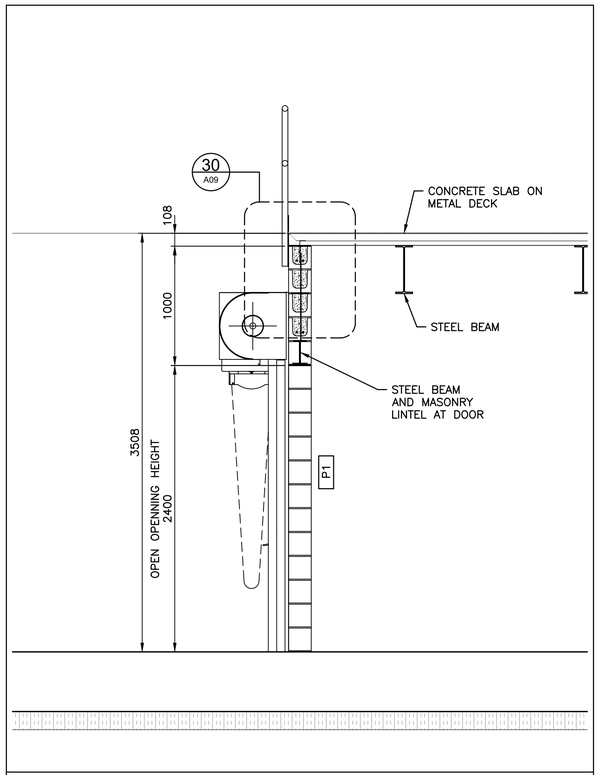
CITY OF IQALUIT
WASTE TRANSFER STATION

WALL SECTIONS SHEET 1

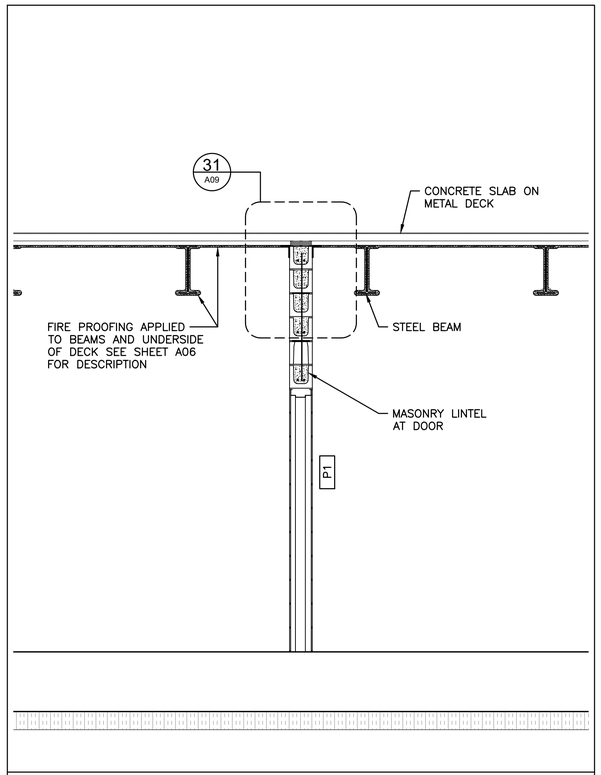
PROJECT NO. 19-9543

SHEET NO. WTS-A07

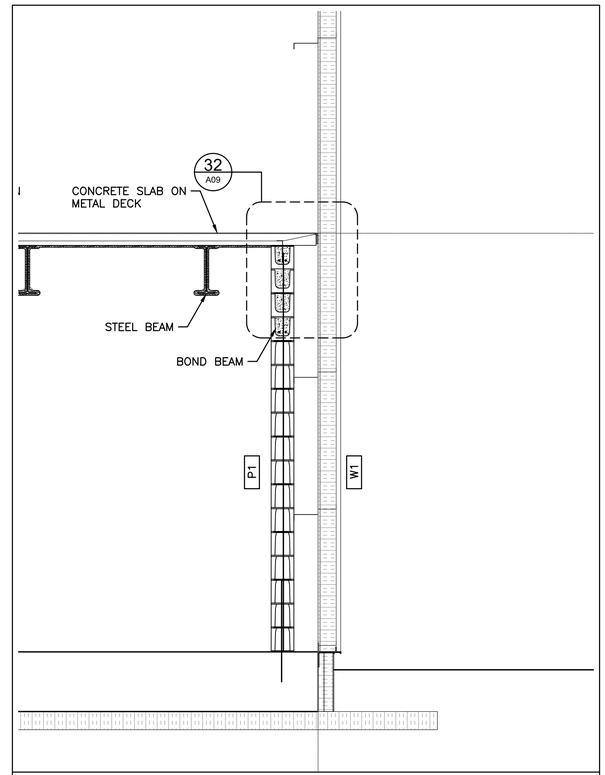
FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\IQPDR\DMS12728\199543-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:52:52 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



18 A01 SECTION 1:25



19 A01 SECTION 1:25



20 A01 SECTION 1:25

0.5 0 0.5
SCALE 1:25 METRES

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA
REVIEWED BY:
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

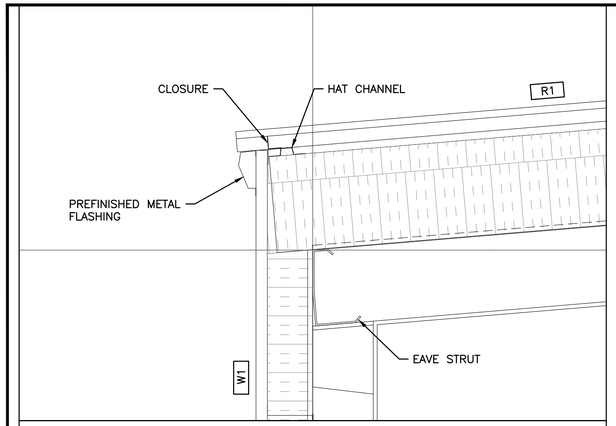
CITY OF IQALUIT
WASTE TRANSFER STATION

WALL SECTIONS SHEET 2

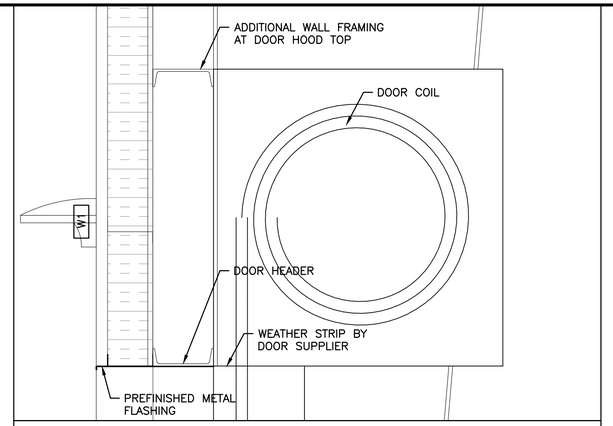
PROJECT NO. 19-9543

SHEET NO. WTS-A08

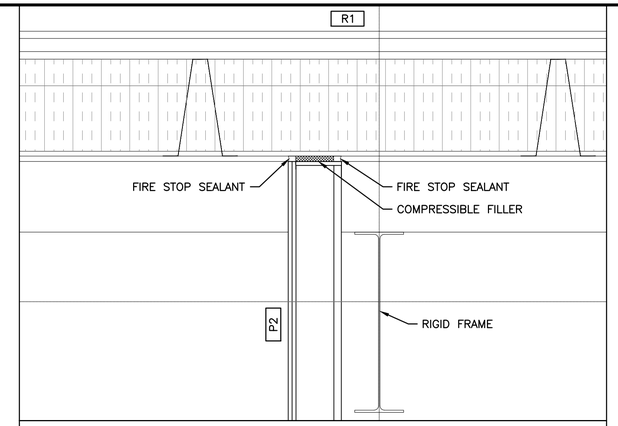
FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\10PDR\DMS12728\199543-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:52:56 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



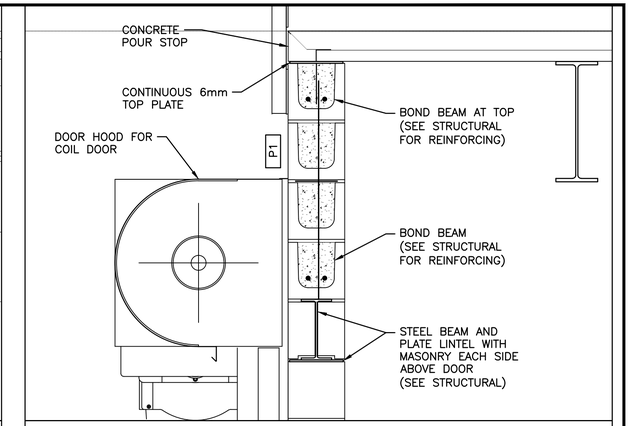
21 A07 DETAIL 1:25



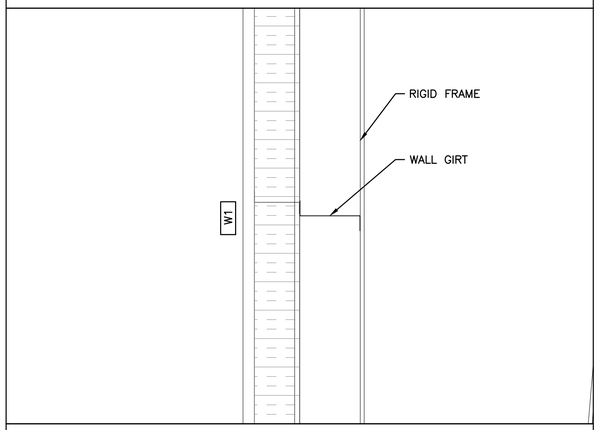
24 A07 DETAIL 1:25



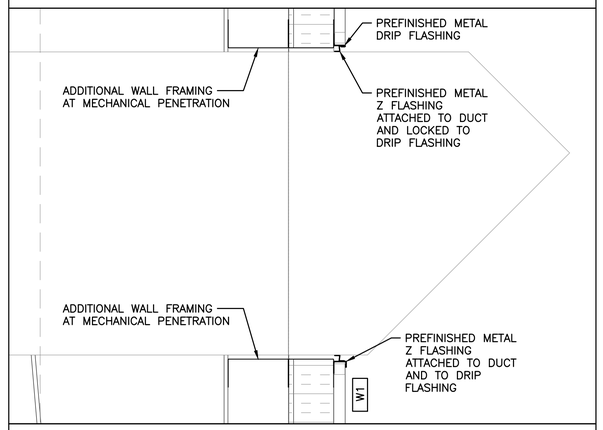
27 A07 DETAIL 1:25



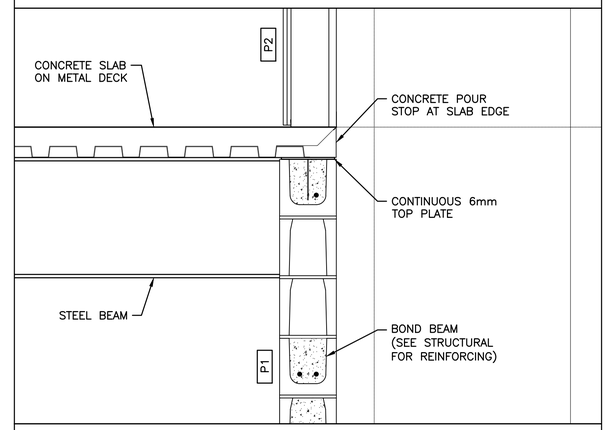
30 A08 DETAIL 1:25



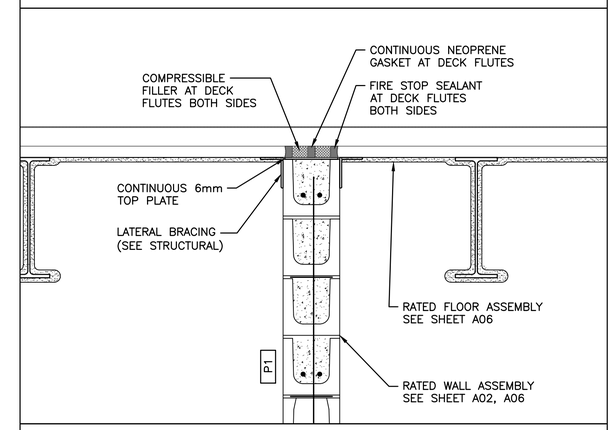
22 A07 DETAIL 1:25



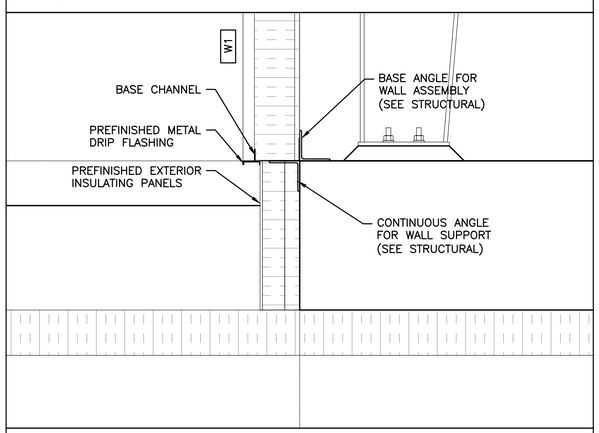
25 A07 DETAIL 1:25



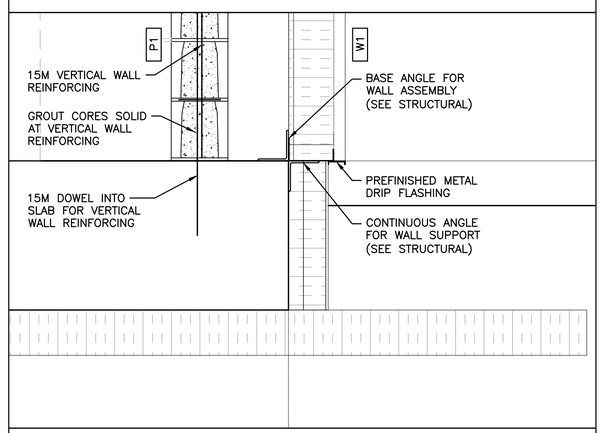
28 A07 DETAIL 1:25



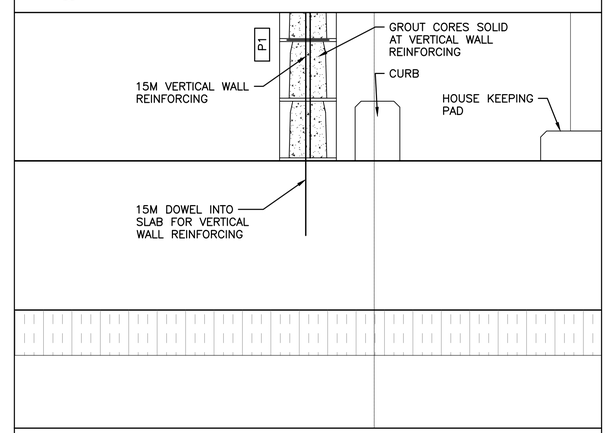
31 A08 DETAIL 1:25



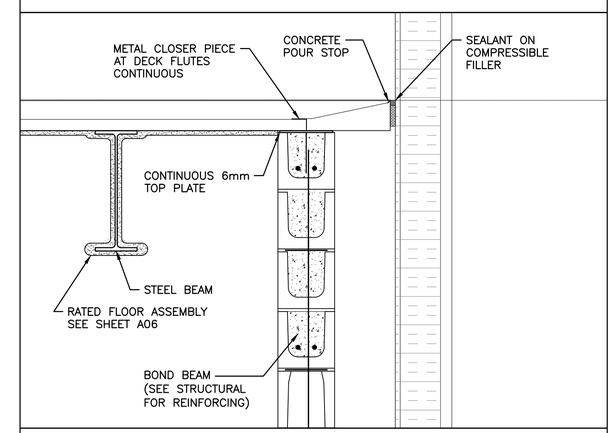
23 A07 DETAIL 1:25



26 A07 DETAIL 1:25



29 A08 DETAIL 1:25



32 A07 DETAIL 1:25

0.5 0 0.5
SCALE 1:25 METRES

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2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA | REVIEWED BY:
DRAWN: PDR | CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

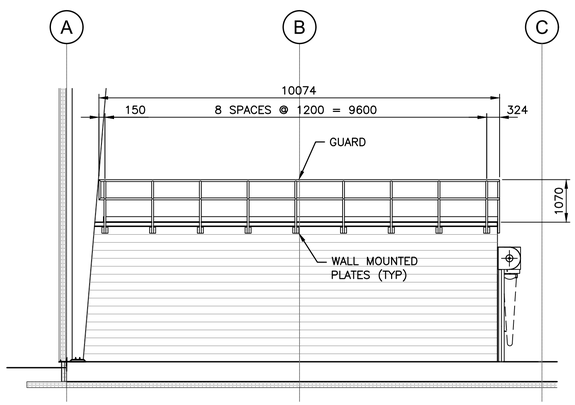
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

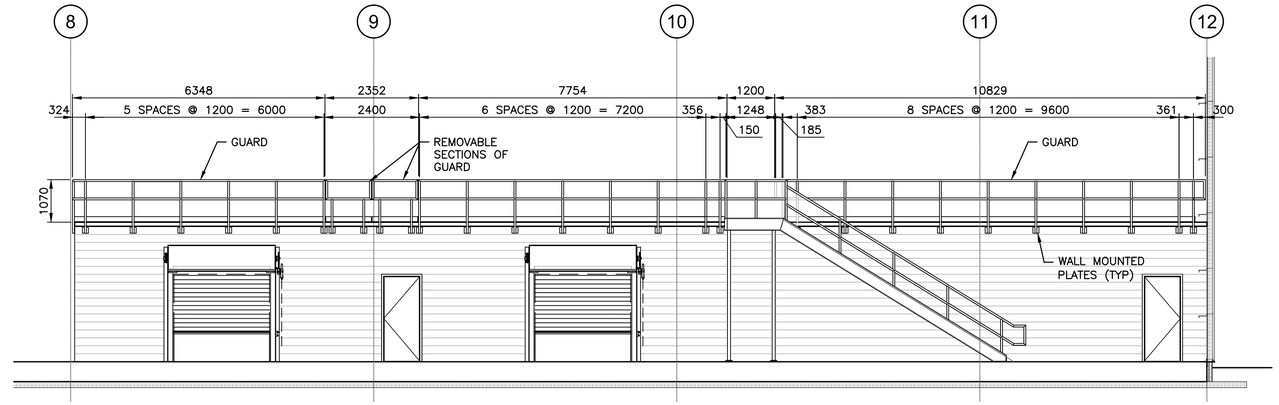
SHEET NO. WTS-A09

SECTION DETAILS

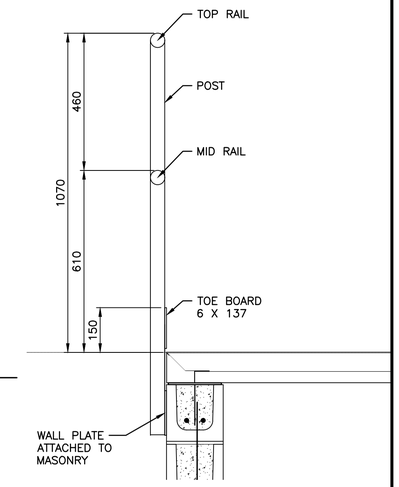
FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\19PDR\DMS12728\199543-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:53:11 AM PLOT SCALE: 1:254 PLOT STYLE: DILLON-STANDARD.CTB



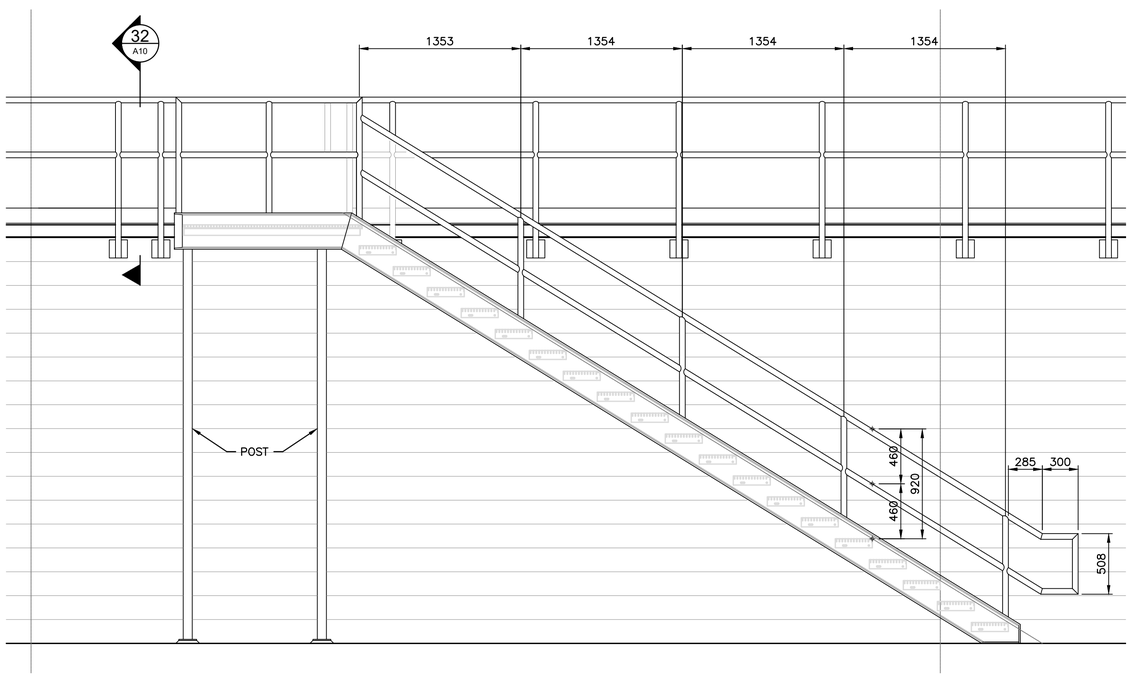
GUARD ELEVATION - WEST WALL
1:75



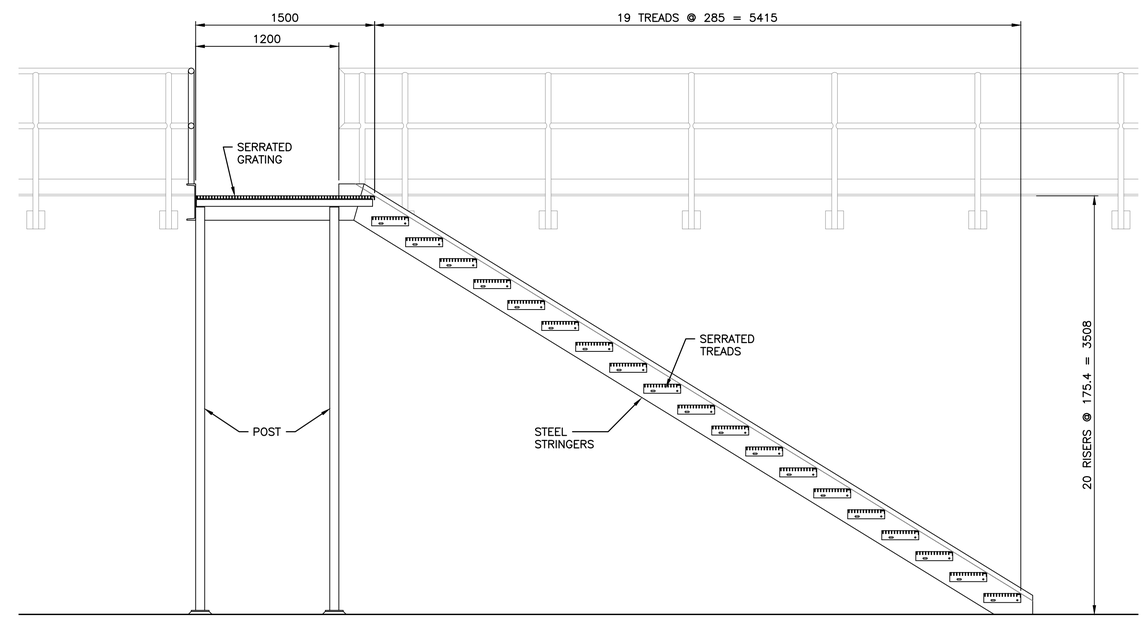
GUARD ELEVATION - SOUTH WALL
1:75



32 A10 SECTION
1:10



STAIR HANDRAIL , GUARD ELEVATION
1:25



SECTION THROUGH STAIR
1:25

0.2 0 0.2 SCALE 1:10 METRES
0.5 0 0.5 SCALE 1:25 METRES
1.5 0 1.5 SCALE 1:75 METRES

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA
REVIEWED BY:
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

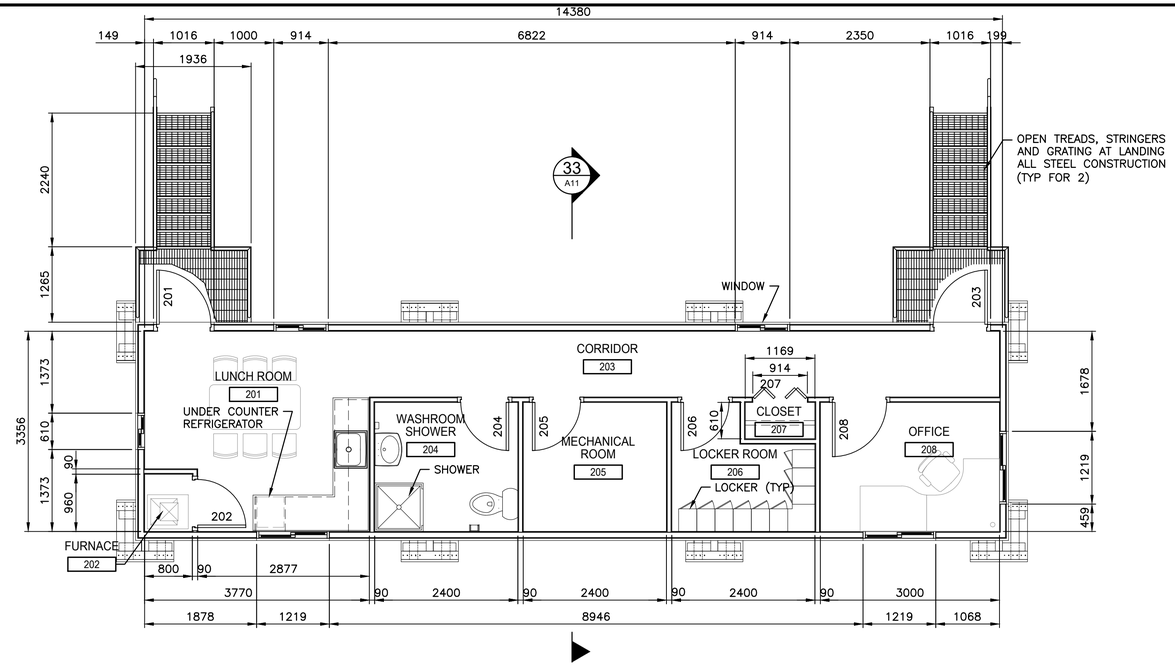
CITY OF IQALUIT
WASTE TRANSFER STATION

MISCELLANEOUS METAL
ELEVATIONS, SECTION

PROJECT NO. 19-9543

SHEET NO. WTS-A10

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\19PDR\DM512728\199543-01-ARCH.DWG PLOTTED BY: DERUITER, PAUL
PLOT DATE: 2020-01-24 @ 11:53:17 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



PRE-FABRICATED OFFICE FLOOR PLAN

1:50

DOOR, FRAME AND HARDWARE SCHEDULE

NUMBER	FROM	TO	SWING	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FINISH	FRAME RATING	FRAME DETAIL	REMARKS	HDW PKG
201	201	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 1
202	202	201	RH	A	813	2134	45	HM	PT		F1	HM	PT				PKG 2
203	203	EXT	RH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 1
204	203	204	LH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 3
205	203	205	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 2
206	203	206	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 3
207	207	203	BI–FOLD	WD	914	2134	45	HM	PT							PAIR BI–FOLD DOORS	
208	203	208	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 2
301	201	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				PKG 1

HARDWARE PACKAGE 1
- 3 HINGES (NR PINS)
- 1 DEAD BOLT
- 1 PASSAGE SET
- 1 CLOSER
- 1 KICK PLATE
- 1 THRESHOLD
- 1 WEATHERSTRIP
- 1 DOOR SWEEP

HARDWARE PACKAGE 2
- 3 HINGES
- 1 LOCK SET

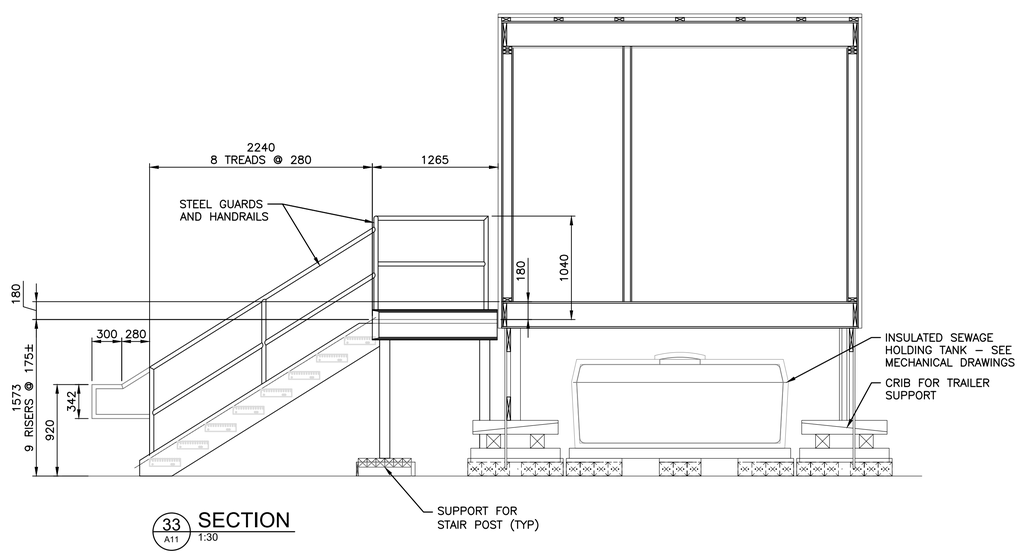
HARDWARE PACKAGE 3
- 3 HINGES
- 1 PRIVACY SET

ROOM FINISH SCHEDULE

ROOM No.	NAME	FLOOR MATERIAL	FLOOR FINISH	BASE	WALLS MATERIAL	WALLS FINISH	CEILINGS MATERIAL	CEILINGS FINISH	CEILINGS HEIGHT	REMARKS
201	LUNCH ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
202	FURNACE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
203	CORRIDOR	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
204	WASHROOM , SHOWER	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
205	MECHANICAL ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
206	LOCKER ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
207	CLOSE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
208	OFFICE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
301	OFFICE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	

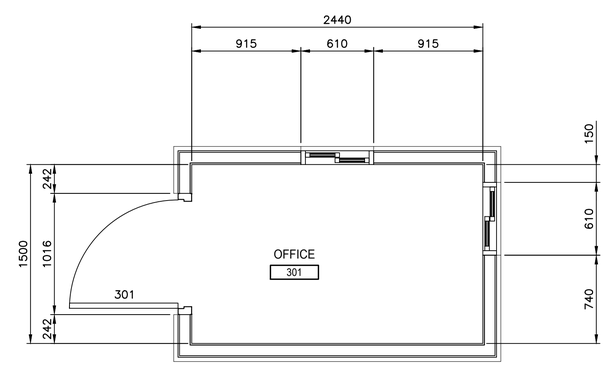
ABBREVIATIONS

CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
EXT	EXTERIOR
HDR	HARDENER
HM	HOLLOW METAL
HR	HOUR
HWD	HARDWARE
GWB	GYPSUM WALL BOARD
LH	LEFT HAND
LP	LINER PANEL
MTL	METAL
NR	NON–REMOVABLE
NL	NARROW LITE
OH	OVERHEAD
PKG	PACKAGE
PREFIN	PREFINISHED
PT	PAINT
RH	RIGHT HAND
TBHM	THERMALLY BROKEN HOLLOW METAL
U/S	UNDERSIDE
VT	VINYL TILE



33 A11 SECTION

1:30



PRE-FABRICATED SCALE HOUSE FLOOR PLAN

1:25

SCALE 1:25 METRES 0.5 0 0.5

SCALE 1:50 METRES 1 0 1

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DESIGN JAA | REVIEWED BY
DRAWN PDR | CHECKED BY
DATE OCT 2019
SCALE NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PRE-FABRICATED OFFICE FLOOR PLAN
PRE-FABRICATED SCALE HOUSE FLOOR PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-A11

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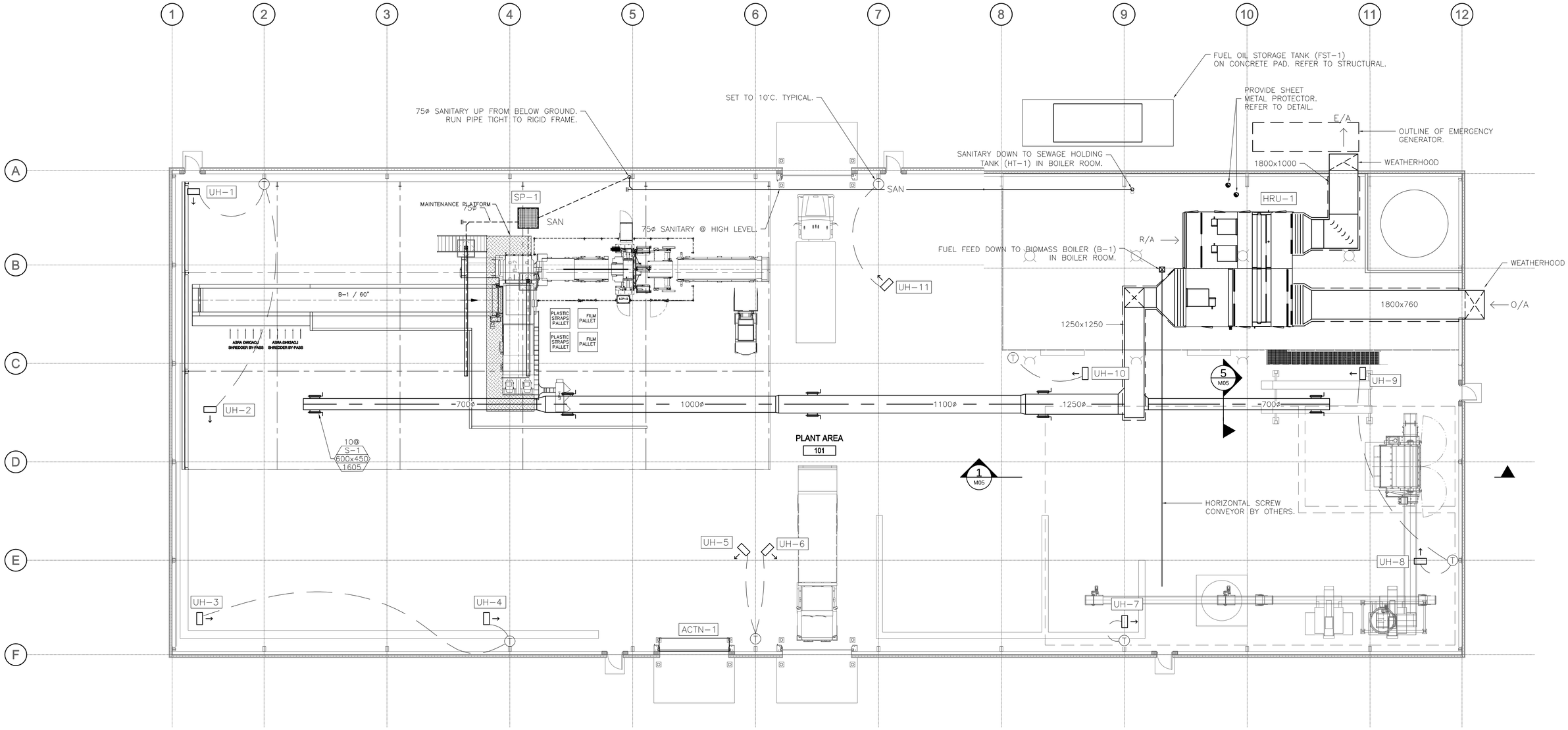

WASTE TRANSFER STATION - MECHANICAL LAYOUT

1:125

WINNIPEG

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\45SKK\DMS(2728)\19954S-07-MECH-CON.DWG PLOTTED BY: KIM, SUNHO
PLOT DATE: 2020-01-17 @ 12:01 PM PLOT SCALE: 1:1 PLOT STYLE: DILLON-STANDARD.CTB

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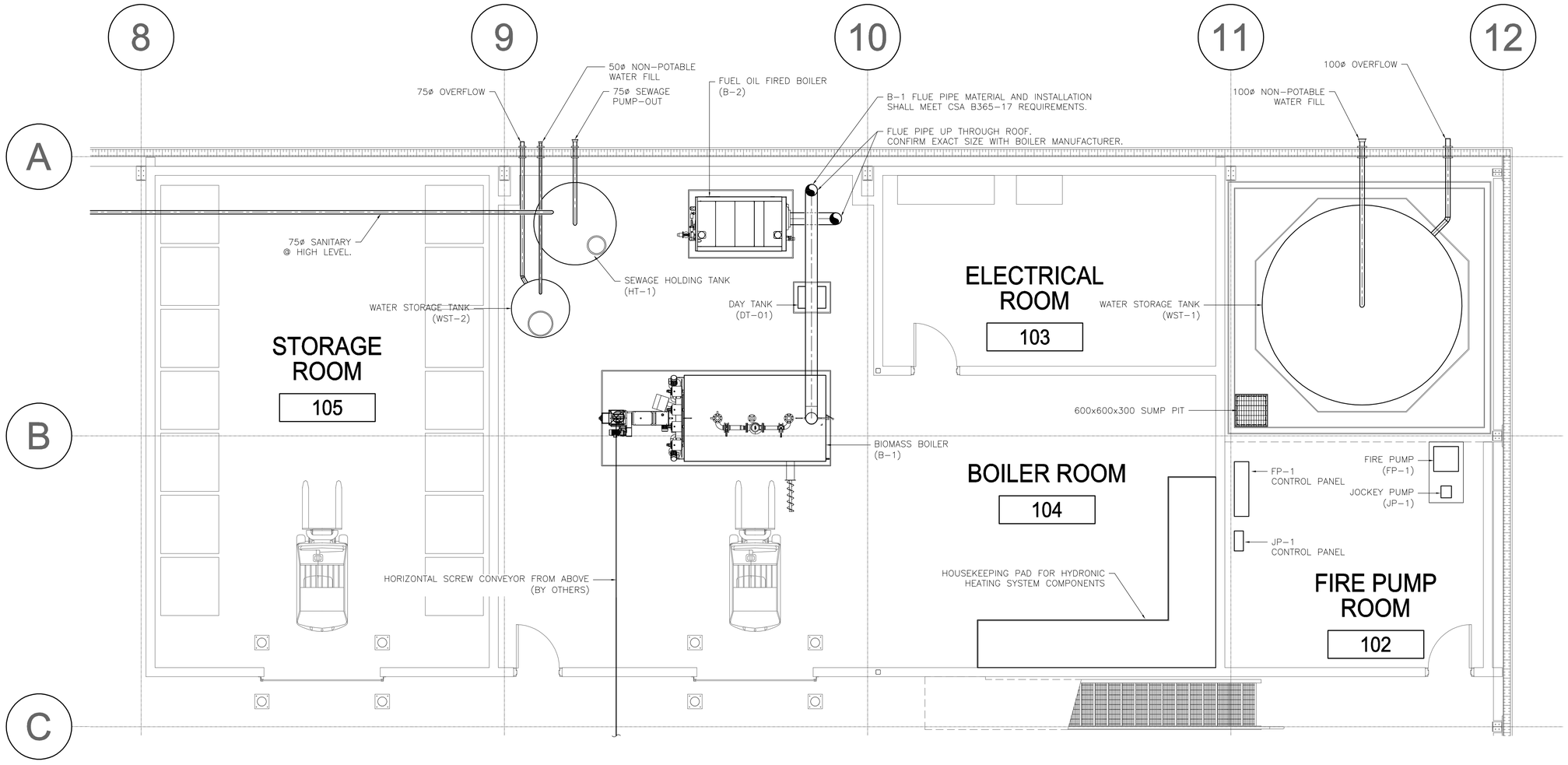
DATE: OCT 2019	
SCALE: NOTED	

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL LAYOUT - PLUMBING, HVAC & FIRE PROTECTION

PROJECT NO. 19-9543

SHEET NO. WTS-M01



LARGE SCALE BOILER ROOM LAYOUT
1:50

WINNIPEG

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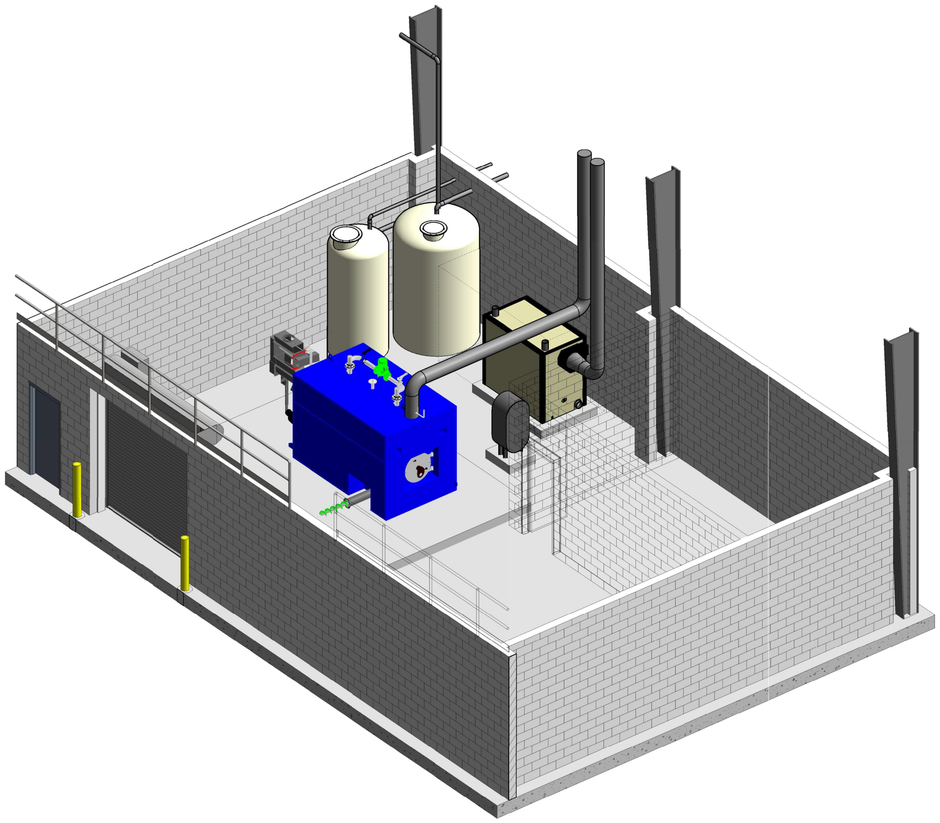
DRAWN ERP	CHECKED BY PA
DATE OCT 2019	
SCALE NOTED	

CITY OF IQALUIT
WASTE TRANSFER STATION

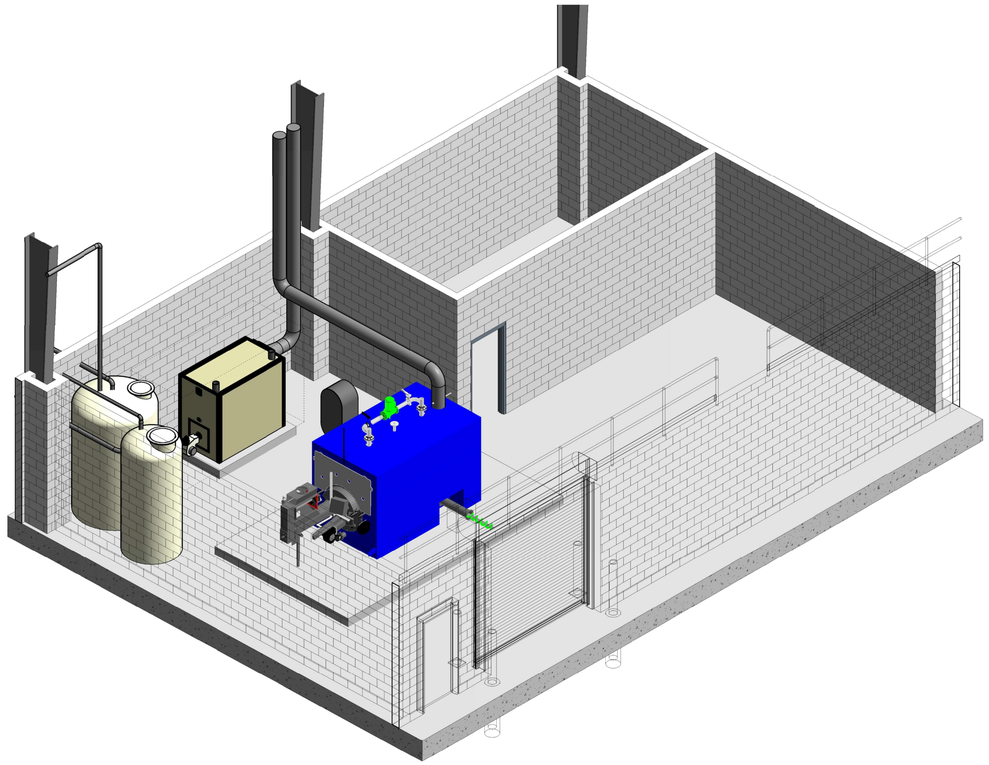
LARGE SCALE BOILER ROOM LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS-M02



1 ISOMETRIC VIEW 1
NTS



2 ISOMETRIC VIEW 2
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CITY OF IQALUIT
WASTE TRANSFER STATION

ISOMETRIC BOILER ROOM LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS-M03

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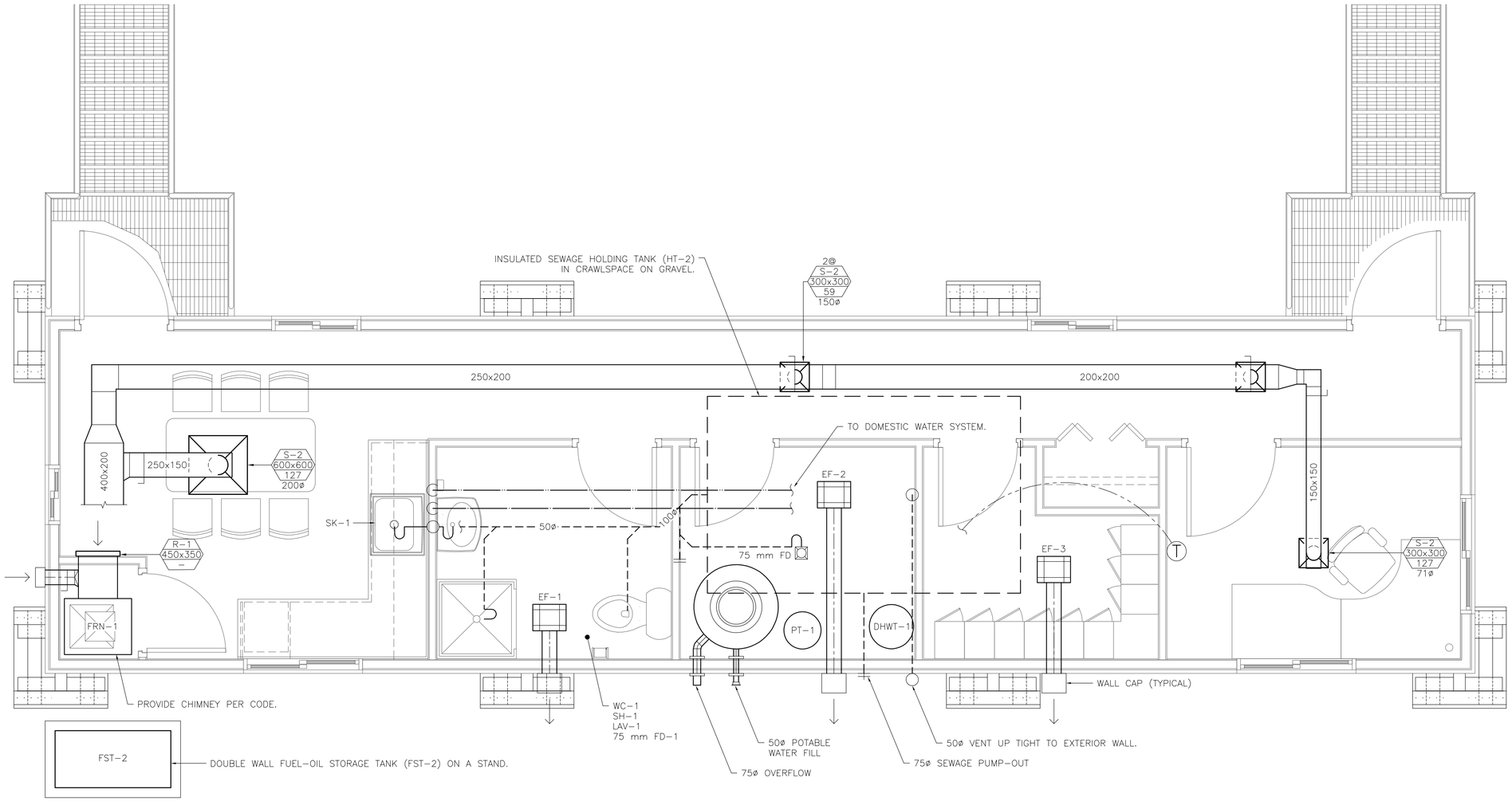
PLOT DATE: 2020-01-17 @ 12:21 PM PLOT SCALE: 1:1 PLOT STYLE: DILLON-STANDARD.CTB
WINNIPEG



SITE OFFICE - MECHANICAL LAYOUT

1:50

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CITY OF IQALUIT
WASTE TRANSFER STATION

SITE OFFICE - MECHANICAL LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS-M04

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\405KK\DMS12728\19954-07-MECH-CON.DWG PLOTTED BY: KIM, SUNHO
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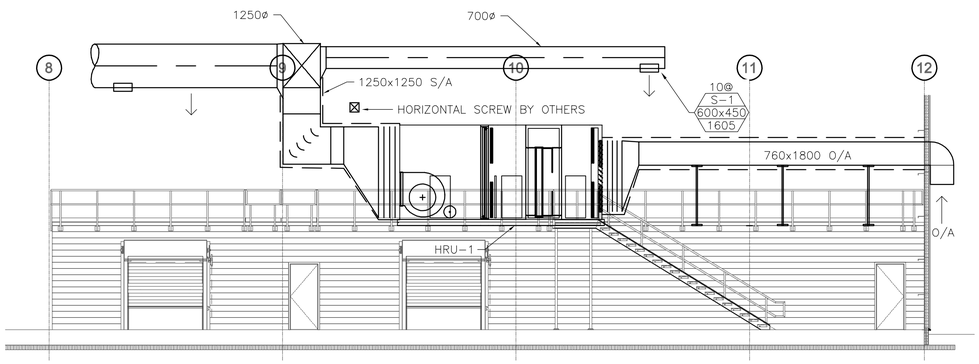
WINNIPEG



1 HEATING UNIT SECTION
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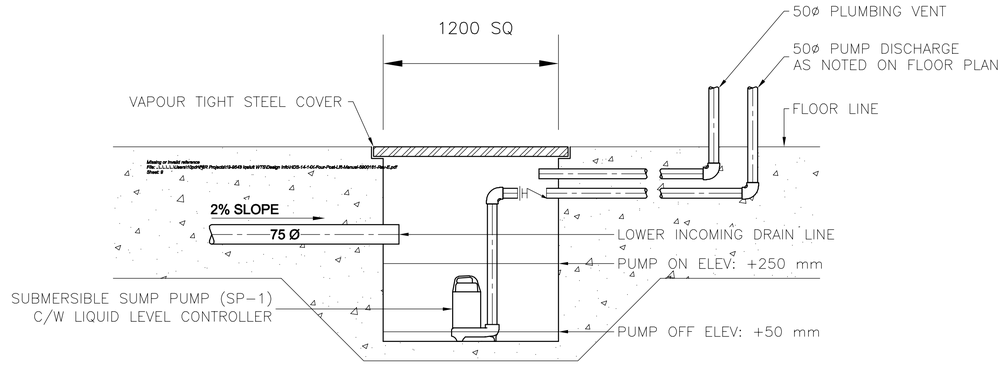

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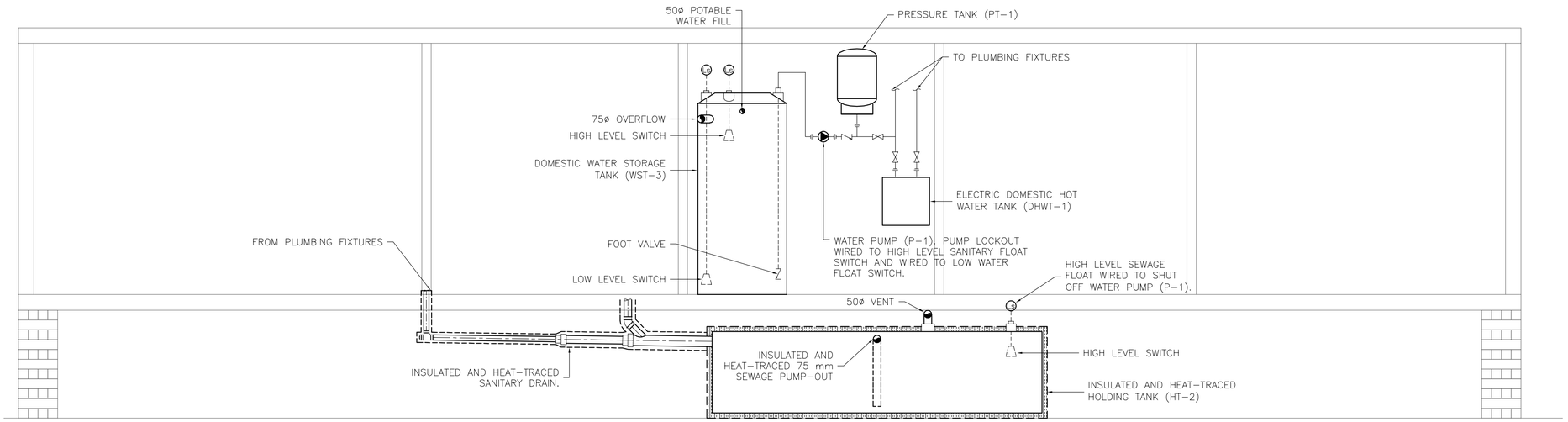
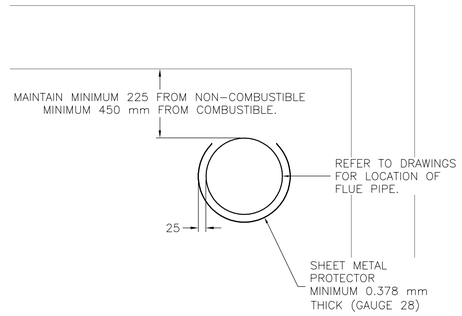
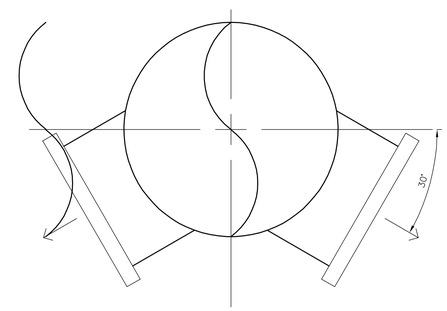


3 WATER AND SEWAGE HOLDING TANK SCHEMATIC
1:100



4 SHEET METAL PROTECTOR DETAIL
NTS



5 SUPPLY DIFFUSER SECTION (TYP)
NTS

WINNIPEG

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PLOT DATE: 2020-01-17 @ 12:23:1 PM PLOT SCALE: 1:1 PLOT SITE: DILLON-SUNHOMBO.CTB

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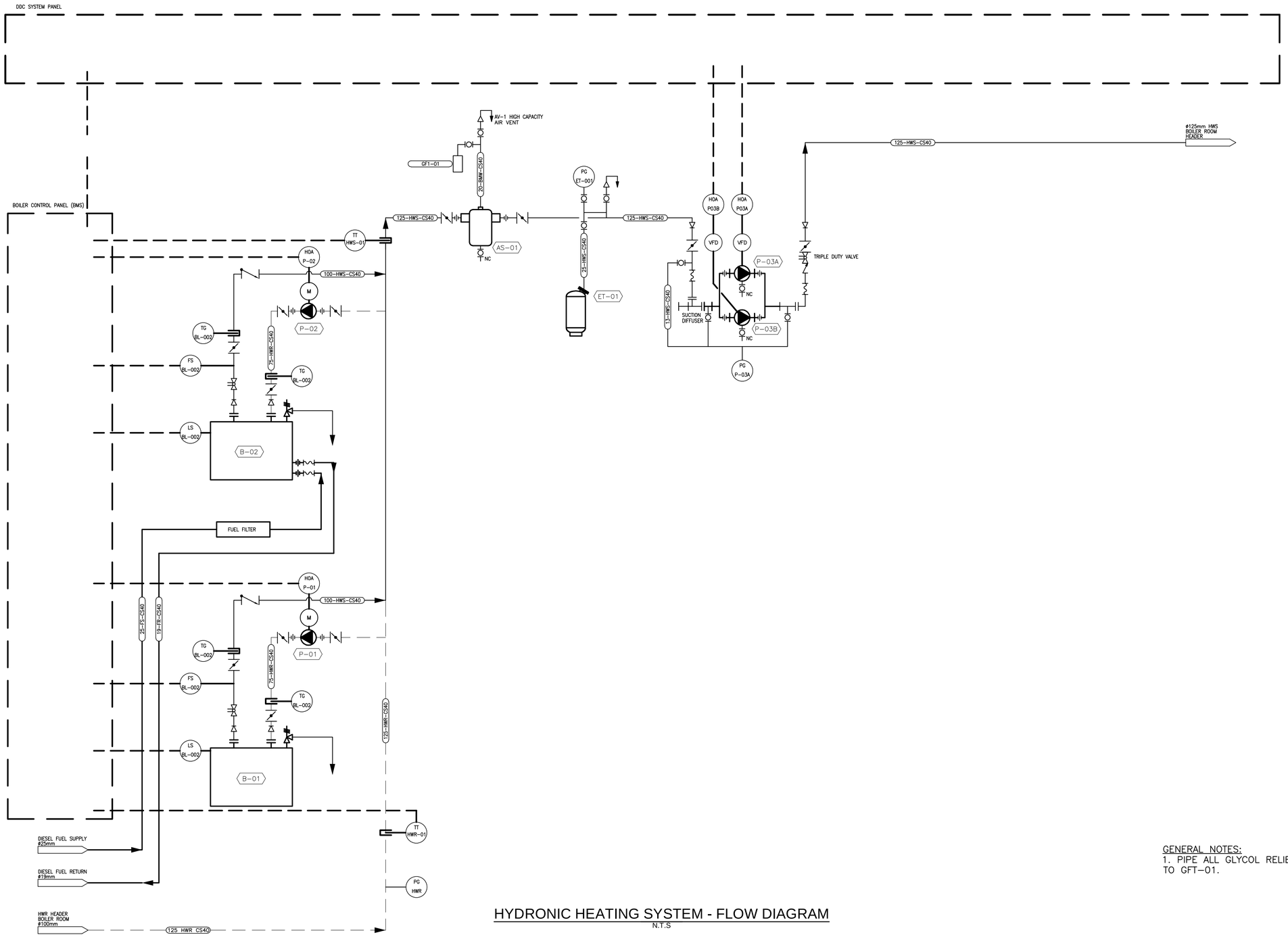
SCALE: NOTED	

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL SECTIONS & DETAILS

PROJECT NO. 19-9543

SHEET NO. WTS-M05



GENERAL NOTES:
1. PIPE ALL GLYCOL RELIEF AND DRAINS TO GFT-01.

HYDRONIC HEATING SYSTEM - FLOW DIAGRAM

N.T.S

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CITY OF IQALUIT
WASTE TRANSFER STATION

HYDRONIC HEATING SYSTEM - FLOW DIAGRAM

PROJECT NO. 19-9543

SHEET NO. WTS-M06

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\45RKK\DMS12728\19S43-07-MECH-CON.DWG PLOTTED BY: KIM, SUNHO
PLOT DATE: 2020-01-17 @ 12:30:08 PM PLOT SCALE: 1:1 PLOT STYLE: DILLON-STANDARD.CTB
WINNIPEG

HEAT RECOVERY UNIT (Based on Engineered Air)

TAG	HRU-1	
MANUFACTUER/MODEL	LM38/HRP/CMV	
SUPPLY FAN		
AIR FLOW RATE (L/s / CFM)	16,048	34,000
E.S.P. (Pa / in.WC)	311	1.25
RETURN FAN		
AIR FLOW RATE (L/s / CFM)	16,048	34,000
E.S.P. (Pa / in.WC)	311	1.25
HEAT EXCHANGER (WINTER)		
SENSIBLE EFFECTIVENESS (%)	67.0	
FILTERS SECTION		
FILTER DEPTH / TYPE	2" PLEATED	
AVERAGE EFFICIENCY	MERV 8	
PHYSICAL DATA		
LENGTH (mm / in.)	6,604	260
WIDTH (mm / in.)	7,112	280
HEIGHT (mm / in.)	3,023	119

NOTES:
1. Return air comes complete with louvre.
2. Electrical requirements: 575/3/60.

DIFFUSER AND GRILLE SCHEDULE (Based on E.H. Price)

TAG	MODEL	COLOUR	NOTES	REMARKS
S-1	SERIES 720 LOUVERED FACE DOUBLE DEFLECTION	-	1	Refer to drawing for face size
S-2	SCD SQUARE CONE DIFFUSER	B12	2	Refer to drawing for neck size
R-1	SERIES 535 LOUVERED FACE 45º DEFLECTION	B12	2	Refer to drawing for face size

NOTES:
1. Provide face operated damper.
2. Surface mount.

Acceptable manufacturers: Titus and Nailor

OIL-FIRED FURNACE SCHEDULE (BASED ON INTERTHERM)

TAG	MODEL	HEATING INPUT		HEATING OUTPUT		ELECTRICAL MOTOR		VOLTAGE / PH		PHYSICAL CHARACTERISTICS HEIGHT		WIDTH		DEPTH		AFUE (%)
		(kW)	(MBH)	(kW)	(MBH)	(kW)	(hp)			(mm)	(in)	(mm)	(in)	(mm)	(in)	
FRN-1	M5SB	19.3	66.0	16.4	56.0	0.373	0.5	120	1	1930	76.0	502	19.8	603	23.8	80.0

NOTES:

1. Upflow supply, side return.
2. Provide chimney vent and MERV 8 filter.

FAN SCHEDULE (Based on Greenheck)

TAG	TYPE	MODEL	RPM	CLASS	AIR FLOW RATE (L/s)	AIR FLOW RATE (CFM)	E.S.P. (Pa)	E.S.P. (in.WC)	MOTOR (W)	MOTOR (HP)	SONES	ACCESSORIES
EF-1, 2 & 3	Ceiling Exhaust	SP-A50	870	2	33	70	31	0.125	14.10	0.02	98	Inlet Grille

Accepted manufacturer: Loren Cook

AIR CURTAIN SCHEDULE (Based on Berner)

TAG	MODEL	NOZZLE FLOW RATE (L/s)	NOZZLE FLOW RATE (CFM)	MOTOR kW	MOTOR HP	PHYSICAL DIMENSIONS LENGTH (mm)	LENGTH (in.)	WIDTH (mm)	WIDTH (in.)	HEIGHT (mm)	HEIGHT (in.)	WEIGHT (kg)	WEIGHT (lb.)	MOUNTING HEIGHT (m)	MOUNTING HEIGHT (ft.)	NOTES
ACTN-1	IDC20-1168A	10,714	22,700	11.2	15	819.2	32.3	4,343.4	171.0	533.4	21.0	465.9	1,025.0	0.0		

NOTES:
1. Confirm mounting height on site.
2. Owner supplied, contractor installed.
3. Air curtains shall have stand alone controls. Wall mounted controller and wiring to be installed by contractor.
4. Electrical requirements: 575/3/60

HOT WATER BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING PERFORMANCE ENERGY TYPE	INPUT (kW)	INPUT (MBH)	OUTPUT (kW)	OUTPUT (MBH)	DIMENSIONS WIDTH (mm)	WIDTH (in.)	LENGTH (mm)	LENGTH (in.)	HEIGHT (mm)	HEIGHT (in.)	WEIGHT (kg)	WEIGHT (lb)
B-1	LIN-KA	H-BOILER	BIOMASS			600	2,047	1,905	75	2,972	117	2,184	86	5,136	11,300
B-2	WEIL-MCLAIN	988	FUEL OIL	771.4	2,632	672.3	2,294	1,124	44.25	1,899	74.75	1,651	65.0	2,542	5,600

NOTES:

1. B-2 HEATING FLUID: 50% WATER, 50% GLYCOL.

UNIT HEATER SCHEDULE (Based on Reznor)

TAG	MODEL	HEATING OUTPUT (kW)	HEATING OUTPUT (MBH)	AIR SIDE FLOW RATE (L/s)	FLOW RATE (CFM)	FAN MOTOR (W)	FAN MOTOR (HP)	FAN MOTOR (RPM)	ENT. TEMP. (C)	ENT. TEMP. (F)	LVG. TEMP. (C)	LVG. TEMP. (F)	FLUID SIDE FLOW RATE (L/s)	FLOW RATE (GPM)	PRESS. DROP (Pa)	PRESS. DROP (ft.WC)	ENT. TEMP. (C)	ENT. TEMP. (F)	LVG. TEMP. (C)	LVG. TEMP. (F)	MOUNTING HEIGHT (m)	MOUNTING HEIGHT (ft.)	HORIZONTAL THROW (m)	HORIZONTAL THROW (ft.)
UH-1 to 11	WS 78/110	32.2	110.0	779	1,650	67	0.09	1,600	4.4	40.0	36.7	98.0	0.694	11.0	4.6	1.5	82.2	180.0	71.1	160.0	4.0	13.0	14.0	46.0

NOTES:
Working fluid: 50% glycol, 50% water.
Acceptable manufacturers: Modine, Trane, Rosemex

PRESSURE TANK SCHEDULE (based on Amtrol)

TAG	MODEL	TANK VOLUME (L)	TANK VOLUME (gal)	MAX. ACCEPTANCE FACTOR	PRESSURE (kPa)	PRESSURE (psig)	DRAWDOWN (L)	DRAWDOWN (gal)
PT-1	WX-201	53	14.00	0.81	276/414	40/60	16	4.30

NOTES:

1. Vertical diapragm-type lined pressure tank.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	SAN	TRAP	DCW	DHW	VENT
WC-1	WATER CLOSET: EQUAL TO CRANE MODEL 38355 C/S 1.28 gpf HIGH EFFICIENCY FLUSH TANK, SEAT EQUAL TO CRANE MODEL 8080. PROVIDE 15 mm FLEX ANGLE WITH HAND/WHEEL STOPS AND ESCUTCHEON.	75	N/A	13	N/A	N/A
LAV-1	BASIN: EQUAL TO AMERICAN STANDARD MODEL 0356.015. FAUCET EQUAL TO AMERICAN STANDARD MODEL 6502.170 C/W V05 0.5 gpm PRESSURE COMPENSATING VANDAL RESISTANT SPRAY. CAST BRASS 32 mm OFFSET WASTE WITH OPEN GRID STRAINER AND ADJUSTABLE P-TRAP. TRUEBRO WITH VINYL INSULATED PIPE COVER ON DRAIN PIPING.	32	32	13	13	32
SK-1	BASIN: EQUAL TO KINDRED MODEL QSL 1719/8/1 BASKET STRAINER WASTE FITTING. FAUCET EQUAL TO KINDRED MODEL KFPD1150 C/W 2.2 gpm WATER SAVER. SYMMONS 4-10B MEMCHANICAL MIXING VALVE. CAST BRASS 32 mm ADJUSTABLE P-TRAP WITH CLEANOUT. PROVIDE 15 mm BALL VALVE STOPS AND ESCUTCHEONS.	32	32	13	13	32
HB-1	CABINET: EQUAL TO STERN WILLIAMS SC SERIES #SC-32-VBO-L SHOWER CABINET, GROUND AND POLISHED ONE PIECE PRECAST TERRAZO, SQUARE, OVERALL DIMENSIONS OF 813 mm X 813 mm X 2083 mm, CENTER DRAIN. SHOWER KIT: AMERICAN STANDARD BERWICK #TU430501.002 PRESSURE BALANCING COMPLETE SHOWER KIT, POLISHED CHROME FINISH, CONSISTING OF: 184 mm DIA METAL WALL TRIM FACEPLATE WITH ON/OFF AND TEMPERATURE CONTROL SINGLE LEVER HANDLE. 173 mm DIA RAIN SHOWERHEAD WITH BALL JOINT, 9.5 Lpm MAXFLOW RATE, PRESSURE COMPENSATING FLOW CONTROL. AMERICAN STANDARD #RU101 PRESSURE BALANCE IN-WALL SHOWER ROUGH VALVE, CAST BRASS BODY, 13 mm UNIVERSAL INLET(S)/OUTLET(S). CERAMIC DISC VALVE CARTRIDGES. INTEGRAL HOT WATER LIMIT STOP, NO SCREW DRIVER STOPS, BACK-TO-BACK CAPABILITY.	38	N/A	13	13	NA
FD-1	EQUAL TO ZURN MODEL #Z-221-VP 75 mm.	75	75	N/A	N/A	N/A
TD-1	TRENCH DRAIN - 200 mm WIDE TRENCH SYSTEM	75	75	N/A	N/A	38

STORAGE TANK SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	LOCATION	DESCRIPTION	NOTES
DT-1	WESTEEL	FOSW280	Fuel Oil Storage	Boiler Room (WTS)	283 Litres, 457 mm L x 585 mm W x 1185 H mm, single wall all steel construction fuel oil storage tank.	4
HT-1	CANWEST	RK1000	Sewage Storage	Boiler Room (WTS)	4500 Litres, 1727 mm dia x 2083 mm H, HDLPE sewage storage tank.	
HT-2	EQUINOX	LPT-1000	Sewage Storage	Crawlspace (Site Office)	4500 Litres, 2016 mm L x 3204 mm W x 789 mm H, Fiberglass low profile sewage storage tank.	1, 2
WST-1	NORWESCO	43825	Non-potable Water Storage (Fire Suppression)	Fire Pump Room (WTS)	75000 Litres, 4191 mm dia x 6147 mm H, Polyethylene construction vertical storage tank.	
WST-2	CANWEST	RK600	Non-potable Water Storage	Boiler Room (WTS)	2300 Litres, 1292 mm dia x 2286 mm H, HDLPE non-potable water storage tank.	
WST-3	CANWEST	RK400	Potable Water Storage	Mechanical Room (Site Office)	1800 Litres, 1446 mm dia x 1397 mm H, HDLPE non-potable water storage tank.	
FST-1	WESTEEL	HFV25000	Fuel Oil Storage	Outdoor (WTS)	24295 Litres, 2375 mm dia x 5484 mm L, dual wall all steel construction fuel oil storage tank.	3
FST-2	WESTEEL	FOSC465	Fuel Oil Storage	Outdoor (Site Office)	465 Litres, 915 mm L x 585 mm W x 1185 H mm, double wall all steel construction fuel oil storage tank.	4

NOTES:

1. Complete with factory install 100 mm (4") pump-out suction line.
2. Spray foam with minimum R20.
3. Complete with heavy duty skid.
4. Install on a structural stand.

DOMESTIC WATER HEATING EQUIPMENT SCHEDULE (Based on A. O. Smith)

TAG	LOCATION	MODEL	ENERGY	INPUT (kW)	CAPACITY (Litres)	CAPACITY (U.S. Gal.)	PHYSICAL CHARACTERISTICS WEIGHT (kg)	WEIGHT (lbs.)	WIDTH (mm)	WIDTH (in.)	DEPTH (mm)	DEPTH (in.)	HEIGHT (mm)	HEIGHT (in.)	NOTES
DHWT-1	Mechanical Room (Site Office)	DEL-10	Electric	3.0	38	10	25	54	457	18.0	457	18.0	464	18.3	

NOTES:

Electrical requirements: 120V/1ph

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	SUCTION (mm)	SUCTION (in.)	DISCHARGE (mm)	DISCHARGE (in.)	FLOW RATE (L/s)	FLOW RATE (gpm)	HEAD (kPa)	HEAD (ft.WC)	MOTOR (kW)	MOTOR (H.P.)	MOTOR RPM
FP-1	Peerless	5PVF7M	Fire Pump	127	5	127	5	25.24	400	552	185	29.84	40	3520
JP-1	Grundfos	CR 1S-11	Jockey Pump	32	1.25	32	1.25	0.16	2.49	815	273	0.56	0.75	3439
SP-1	ABS Scavenger	EF 05W	Sump Pump	51	2	51	2	5.55	88	149	50	0.37	0.5	3450
P-1	Grundfos	SCALA2 3-45A	Booster Pump (Site Office)	25	1.00	25	1.00	0.50	8.00	45	15	0.07	0.09	1,725

NOTES:

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: PA | REVIEWED BY: PDT
DRAWN: ERP | CHECKED BY: PA
DATE: OCT 2019
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL SCHEDULES

PROJECT NO. 19-9543

SHEET NO. WTS-M07

WINNIPEG

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\405KX\DM512728\195543-07-MECH-CON.DWG PLOTTED BY: KIM, SUNHO
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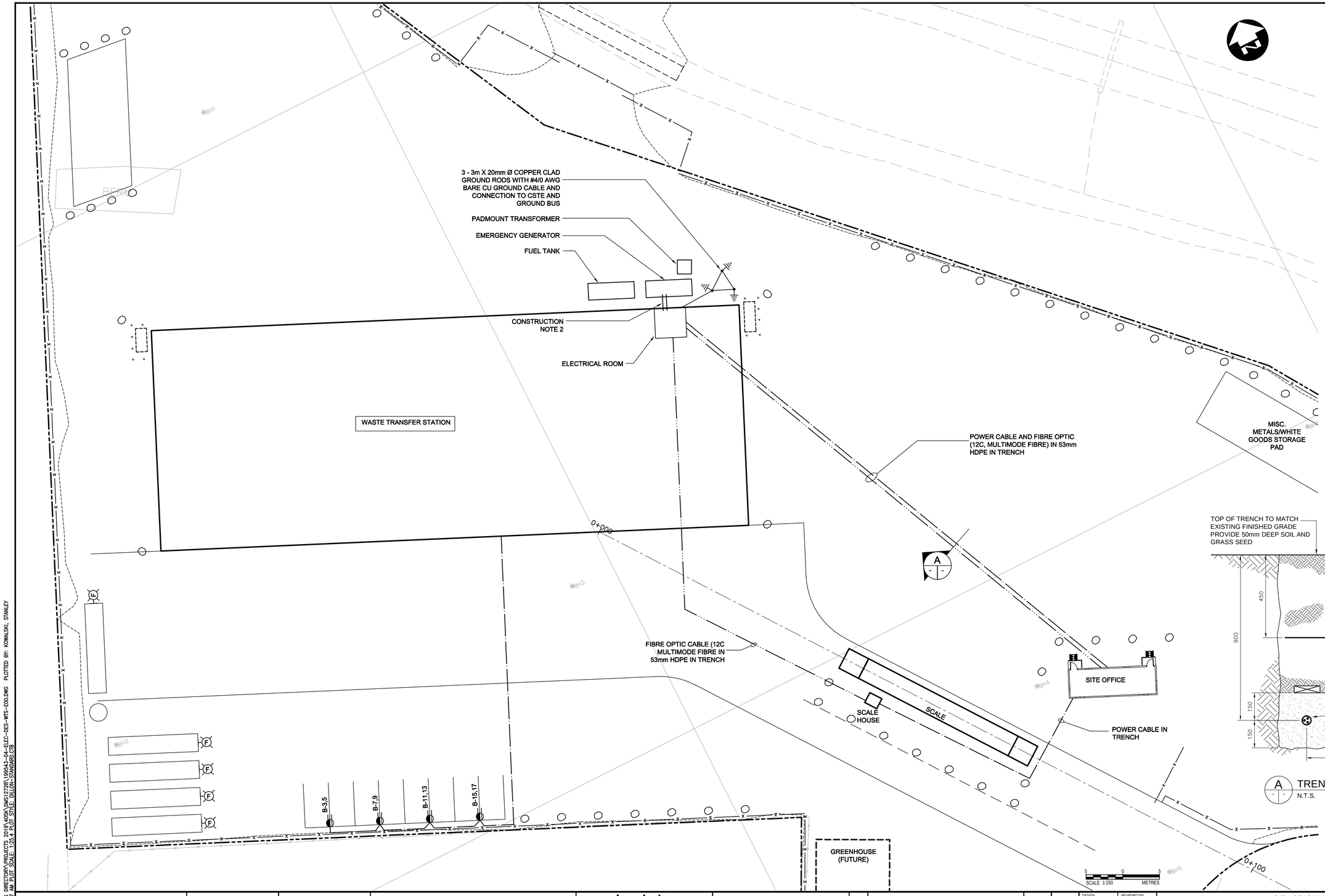

GENERAL NOTES

1. COORDINATE THE NEW SITE ELECTRICAL SERVICE WITH THE POWER AUTHORITY.
2. COORDINATE THE NEW SITE TELECOMMUNICATIONS SYSTEM WITH THE LOCAL SERVICE PROVIDER.
3. PROVIDE POWER AND FIBRE OPTIC CABLE CONNECTIONS FOR THE SITE OFFICE AND THE SCALE HOUSE.

CONSTRUCTION NOTES

1. PROVIDE GROUNDING TO MEET CANADIAN ELECTRICAL CODE AND THE REQUIREMENT OF THE POWER AUTHORITY.
2. PROVIDE 2 X 53 MM HDPE CONDUIT FROM THE ATS AND THE PUMP CONTROLLER TO THE GENERATOR ENCLOSURE.

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\ADSK\DAS1272B\195543-04-ELEC-DES-WTS-E00.DWG PLOTTED BY: KOWALSKI, STANLEY
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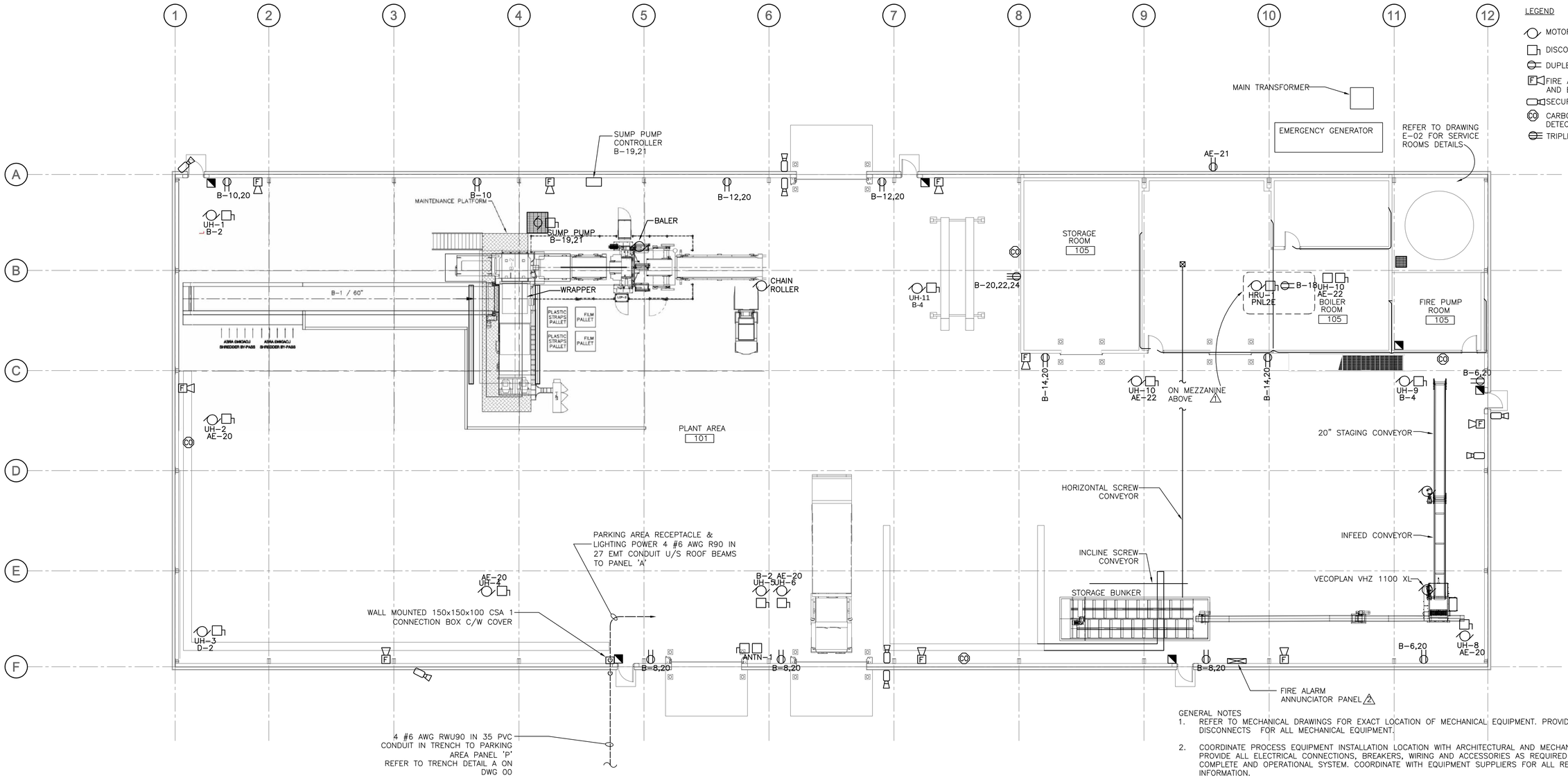
DESIGN C.P.S.	REVIEWED BY S.D.K.
DRAWN S.C.K.	CHECKED BY K.B.
DATE OCT 2019	
SCALE 1:250	

CITY OF IQALUIT
WASTE TRANSFER STATION

ELECTRICAL - SITE PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-E0C



POWER PLAN MAIN BUILDING AREA
1:125

LEGEND

- MOTOR LOCATION
- DISCONNECT SWITCH
- DUPLEX RECEPTACLE
- FIRE ALARM STROBE AND BELL
- SECURITY CAMERA
- CARBON MONOXIDE DETECTOR
- TRIPLEX RECEPTACLE

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. PROVIDE LOCAL DISCONNECTS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE PROCESS EQUIPMENT INSTALLATION LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE ALL ELECTRICAL CONNECTIONS, BREAKERS, WIRING AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH EQUIPMENT SUPPLIERS FOR ALL REQUIRED INFORMATION.
3. COORDINATE THE INSTALLATION OF THE MAIN TRANSFORMER WITH THE POWER SUPPLY AUTHORITY.
4. COORDINATE THE INSTALLATION OF THE GENERATOR WITH THE FUEL TANK AND MAIN TRANSFORMER LOCATIONS.

CONSTRUCTION NOTES

1. HRU-1 IS LOCATED ON THE MEZZANINE. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE 20A T-SLOT RECEPTACLE IN CLOSE PROXIMITY.
2. CONFIRM FIRE FIGHTER ENTRANCE WITH LOCAL FIRE DEPARTMENT.
3. PROVIDE CO DETECTION FOR PLANT FLOOR. MONITOR WITH FIRE ALARM SYSTEM TO PROVIDE A TROUBLE SIGNAL ON CO DETECTION.

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DRAWN: PDR	CHECKED BY:
DATE: OCT 2019	
SCALE: NOTED	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

POWER PLAN MAIN BUILDING AREA

SHEET NO. WTS-E01

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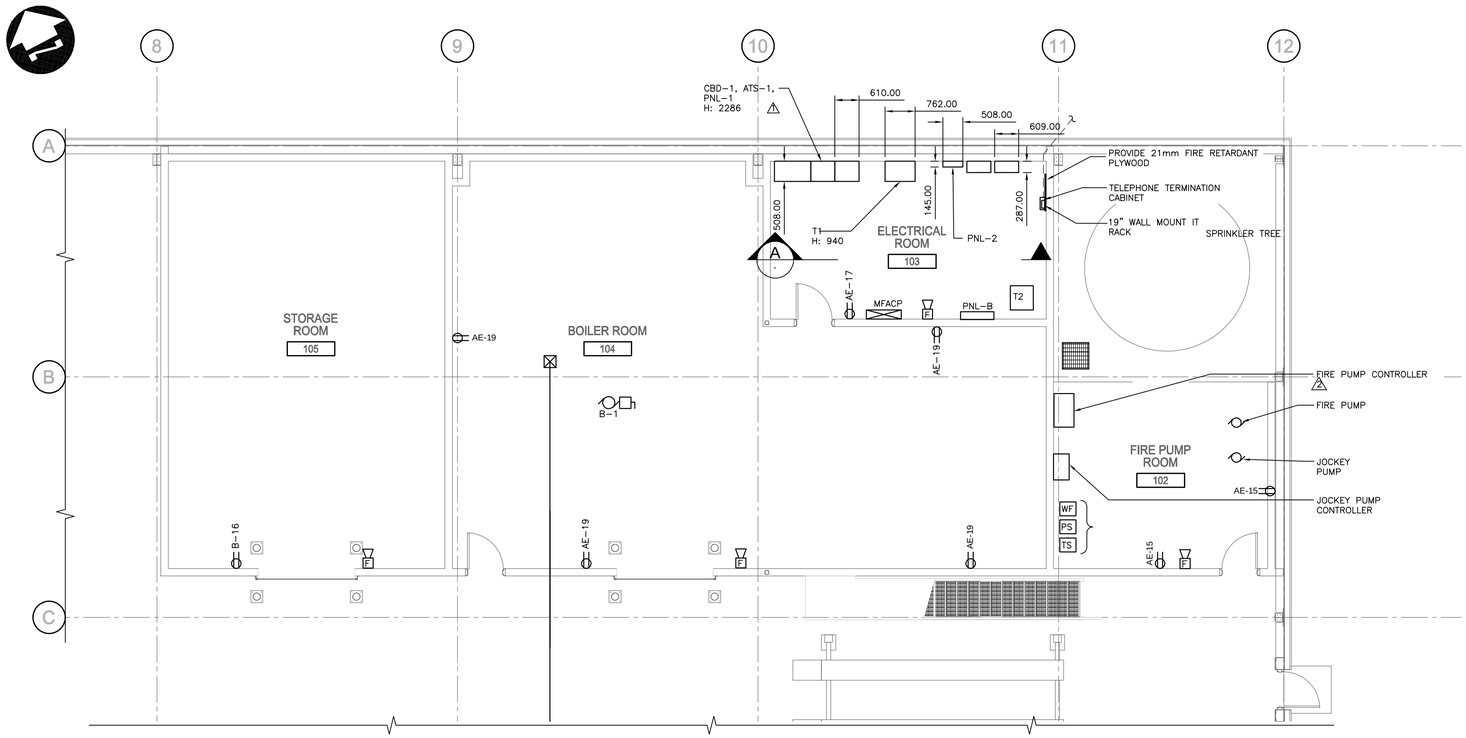


POWER PLAN SERVICE ROOMS
1:75

DISTRIBUTION PANEL – LP–A–E

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	EXTERIOR LTG. N & E WALL		15		20		HIGH BAY LTG.	02
03	EXTERIOR LTG. S. WALL		15		2P			04
05	STORAGE RM. LTG.		15		20		HIGH BAY LTG.	06
07	BOILER RM. LTG.		15		2P			08
09	BOILER RM. LTG.		15		20		HIGH BAY LTG.	10
11	ELECTRICAL RM. LTG.		15		2P			12
13	FIRE PUMP RM. LTG.		15		20		HIGH BAY LTG.	14
15	RECEPT. FIRE PUMP ROOM 2		15		2P			16
17	RECEPT. ELECTRICAL 1		15		15		EXIT SIGNAGE	18
19	RECEPT. BOILER ROOM 4		15				UH–2, 4, 6	20
21	RECEPT. EXTERIOR 1		15				UH–8, 10	22
23	RECEPT. EXTERIOR 1		15				SPACE	24
25	GENERATOR VENT. ENCLOSURE PANEL 100		15				SPACE	26
27	SPACE						SPACE	28
29	SPACE						SPACE	30
31	SPACE						SPACE	32
33	SPARE		20		15		SPARE	34
35	SPARE		20		15		SPARE	36
37	SPARE		20		15		SPARE	38
39	SPARE		20		15		SPARE	40
41	SPARE		20		15		SPARE	42

VOLTAGE: 120/208V **PHASE:** 3 **WIRE:** 4 **BREAKER I.C.:** 10 kA
MAIN BREAKER: – **MAINS:** 225 **FEEDER:** -
MOUNTING: SURFACE **LOCATION:** ELECT. RM.
FED FROM: CDP–1
NOTES: –
–
–
–

CONSTRUCTION NOTES

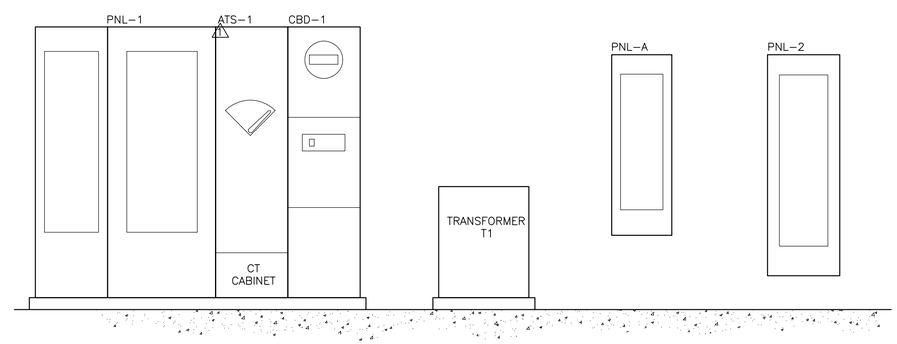
1. PROVIDE 53MM HDPE CONDUIT FROM THE ATS TO THE GENERATOR ENCLOSURE FOR CONTROL WIRING. PROVIDE WIRING AS REQUIRED. COORDINATE WITH GENERATOR SUPPLIER FOR WIRING AND CONNECTIONS REQUIRED.

2. PROVIDE 53MM HDPE CONDUIT FROM THE FIRE PUMP CONTROLLER TO THE GENERATOR ENCLOSURE FOR CONTROL WIRING. PROVIDE WIRING AS REQUIRED. COORDINATE WITH FIRE PUMP CONTROLLER SUPPLIER FOR WIRING AND CONNECTIONS REQUIRED.

DISTRIBUTION PANEL – LP–B

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPT. PARKING	1800	20		15	150	UH–1/3/5	02
03			2P		15	150	UH–7/9/11	04
05	RECEPT. PARKING	1800	20		20	600	RECEPT. PLANT ROOM	06
07			2P		20	600	RECEPT. PLANT ROOM	08
09	RECEPT. PARKING	1800	20		20		RECEPT. PLANT ROOM	10
11			2P		20		RECEPT. PLANT ROOM	12
13	RECEPT. PARKING	1800	20		20		RECEPT. PLANT ROOM	14
15			2P		15	600	RECEPT. STORAGE RM.	16
17	RECEPT. PARKING	1800	20		20	600	RECEPT. MEZZANINE	18
19	SUMP PUMP CONTROLLER	1000	20					20
21	SPACE				50	2000	CAR AND TRUCK LIFT	22
23	SPACE				3P			24
25	SPACE						SPACE	26
27	SPACE						SPACE	28
29	SPACE						SPACE	30
31	SPACE						SPACE	32
33	SPARE		20		15		SPARE	34
35	SPARE		20		15		SPARE	36
37	SPARE		20		15		SPARE	38
39	SPARE		20		15		SPARE	40
41	SPARE		20		15		SPARE	42

VOLTAGE: 120/208V **PHASE:** 3 **WIRE:** 4 **BREAKER I.C.:** 10 kA
MAIN BREAKER: – **MAINS:** 225 **FEEDER:** –
MOUNTING: SURFACE **LOCATION:** WASTE TRANSFER STATION
FED FROM: CDP–1
NOTES: –
–
–
–



A SECTION
1:25

LEGEND

- PHOTO CELL
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- VOICE/DATA RECEPTACLE
- 2 X 2 LUMINAIRE
- STRIP LUMINAIRE
- SWITCH
- LOCAL DISCONNECT
- COMBO EXIT SIGN
- EXTERIOR LUMINAIRE
- CCTV CAMERA

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REVIEWED BY: BLM
DRAWN: PDR
CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

POWER AND SYSTEMS PLAN SERVICE ROOMS
PANEL SCHEDULES

PROJECT NO. 19-9543

SHEET NO. WTS-E02

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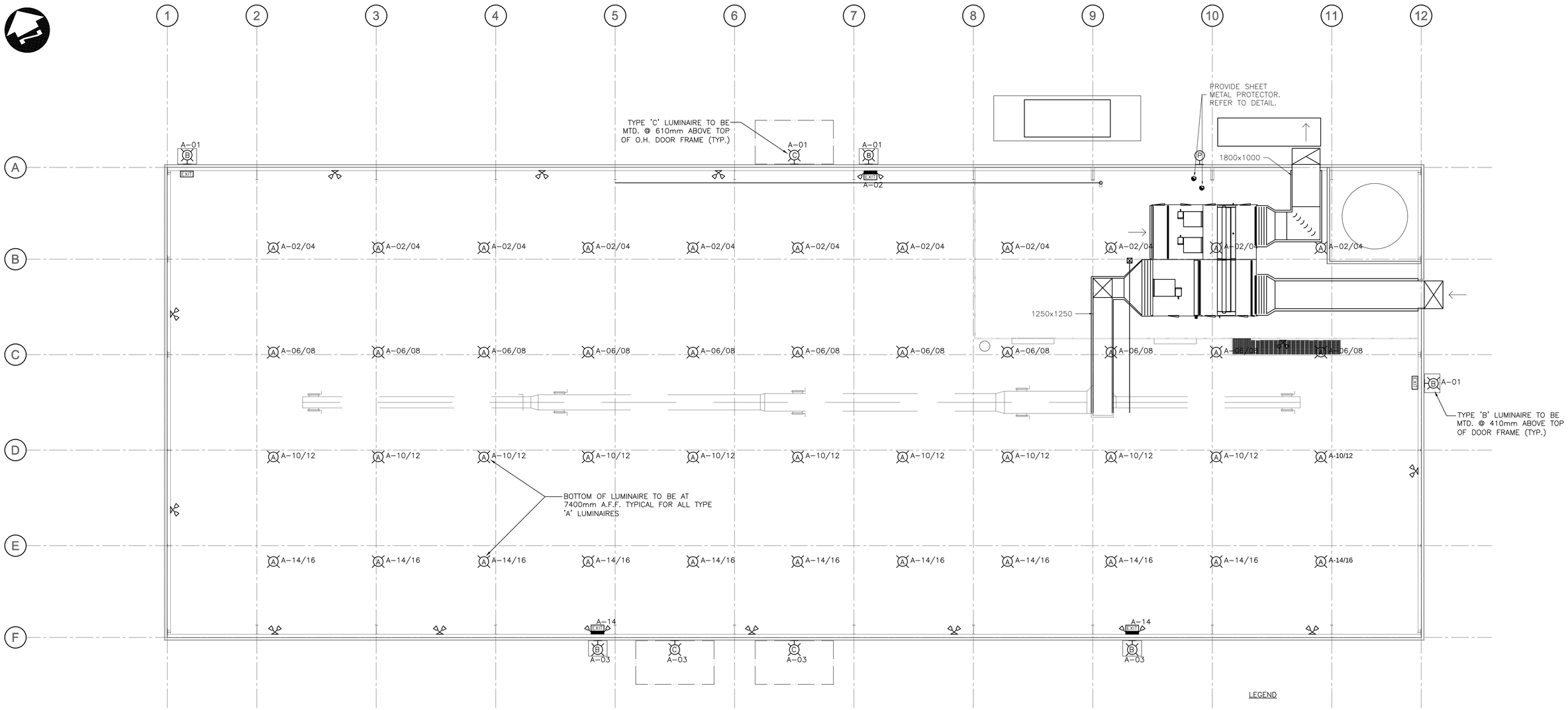

LIGHTING PLAN MAIN BUILDING AREA

1:125

LEGEND

- HIGH BAY LUMINAIRE
- WALL MOUNTED LUMINAIRE
- PHOTOCELL
- COMBINATION EXIT SIGN, DUAL LAMPS, BATTERY UNIT

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\45K\DM51\72561\95453-04-ELEC-DES.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-01-17 @ 9:44:35 AM PLOT SCALE: 1:25.8107 PLOT STYLE: DILLON STANDARD.CTB

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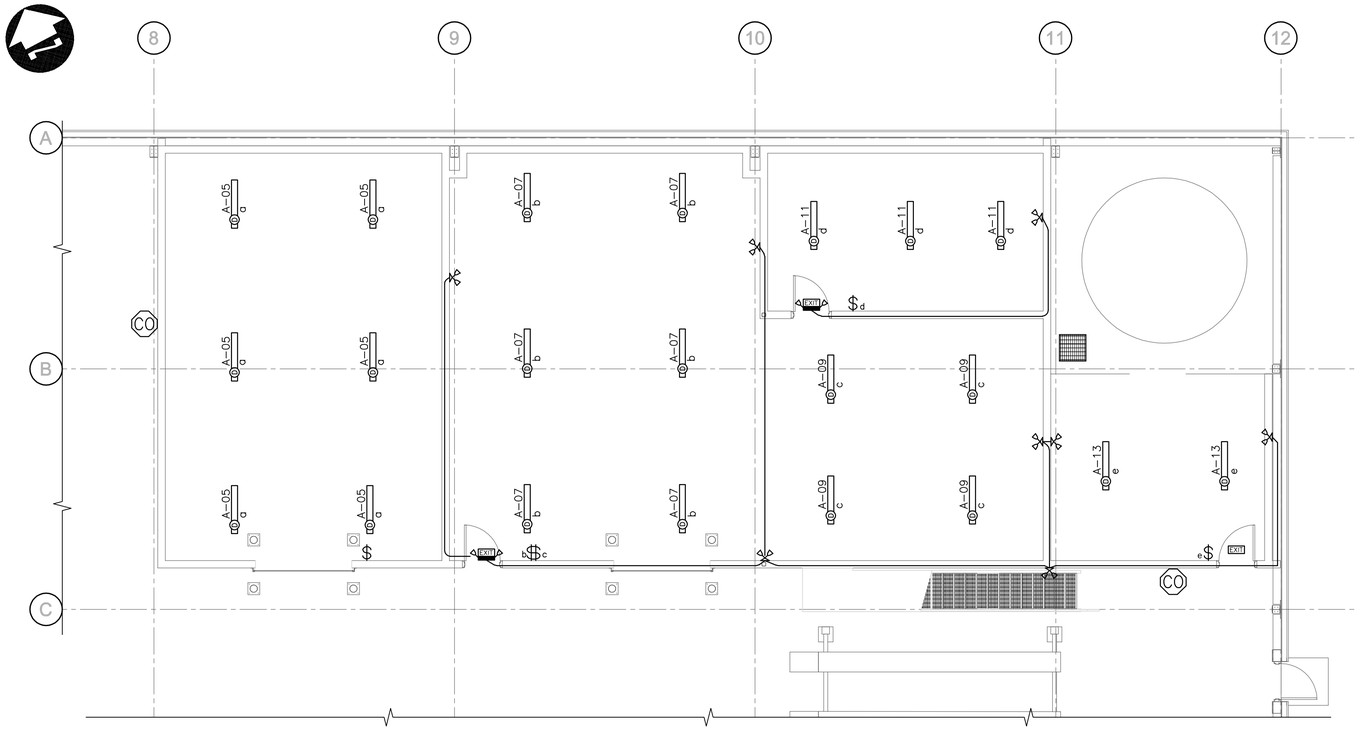
DATE: OCT 2019	
SCALE: NOTED	

CITY OF IQALUIT
WASTE TRANSFER STATION

LIGHTING PLAN MAIN BUILDING

PROJECT NO. 19-9543

SHEET NO. WTS-E03



LIGHTING PLAN SERVICE ROOMS
1:75

LEGEND

- STRIP LIGHTING SURFACE MOUNTED
- REMOTE DUAL EMERGENCY LIGHTING FIXTURE
- COMBINATION EXIT LIGHT, EMERGENCY LAMP AND BATTERY UNIT

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CAT. NO.	LAMP	VOLTAGE	REMARKS
A	LITHONIA LIGHTING	JEBL 24L 40K 80CRI WH	26558 LUMEN 181 WATTS 1 LED	208V	LED HIGH BAY LUMINAIRE MTD. @ NOM. ELEV. 7.4m A.F.F.
B	LITHONIA LIGHTING	KAXW P1 40K R3 120 PER DDBXD	3545 LUMEN 29 WATTS 1 LED	120 VOLTS	WALL MOUNTED, DARK BRONZE C/W PHOTOCELL FOR DUSK TO DAWN OPERATION
C	LITHONIA LIGHTING	DSXW1 LED 20C 1000 40K T4M MVOLT PE DDBXD	2 LED 73 WATTS	120 VOLTS	SURFACE MTD. LED WALL LUMINAIRE DARK BRONZE PHOTOCELL CONTROL
D	LITHONIA LIGHTING	ZL1N L48 7000LM FST 120 40K 80 CRI WH	LED 6785 LUMEN 52 WATTS	120 VOLTS	LED STRIP LIGHT WITH DIFFUSED LENS
F	TBD	TBD	LED 500 LUMEN		EXTERIOR SOLAR POWER W / INTEGRAL BATTERY
G	LITHONIA LIGHTING	EPANL 2X2 4800LM 80 CRI 40K-MINI 2T 120	LED 4847 LUMENS 45 WATTS	120 VOLTS	LED 2X2 FLAT PANEL C/W TBAR OR SURFACE KIT AS REQUIRED

EMERGENCY LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CAT. NO.	LAMP	VOLTAGE	REMARKS
A	AIMLITE	EBPC-06-030-2-3LJ-WHT	2 LAMPS 7 WATTS	120	INTERIOR LED HIGH BAY COLD WEATHER RATED PLASTIC BATTERY UNIT C/W TWO LAMPS STAND ALONE APPLICATION
B	AIMLITE	RMN-2-06-7W-LA-BLK	2 LAMPS 7 WATT	12 VOLT	REMOTE DUAL EMERGENCY LAMP, WET LOCATION, VANDAL PROOF
EXIT	AIMLITE	RPUB-12-RPUB0636-1 -W-2-SM-3WLJ-WHT	2 LAMPS 7 WATTS	120	INTERIOR EXIT SIGN C/W 2 LED EMERGENCY LAMPS GREEN RUNNING MAN PICTOGRAM
EXIT	AIMLITE	CRPN-06-036-1-WHT-2 -7WLR-ATD-CW	2 LAMPS 7 WATT	120-277V	WET LOCATION GREEN RUNNING MAN PICTOGRAM 2 LAMPS

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CHECKED BY:
DATE: OCT 2019
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CITY OF IQALUIT
WASTE TRANSFER STATION

LIGHTING PLAN SERVICE ROOMS
FIXTURE SCHEDULE

PROJECT NO. 19-9543

SHEET NO. WTS-E04

FILENAME: C:\PROJECTWISE\WORKING DIRECTORY\PROJECTS 2019\40S\DMS11272\189543-04-ELEC-DES.DWG PLOTTED BY: KOWALSKI, STANLEY
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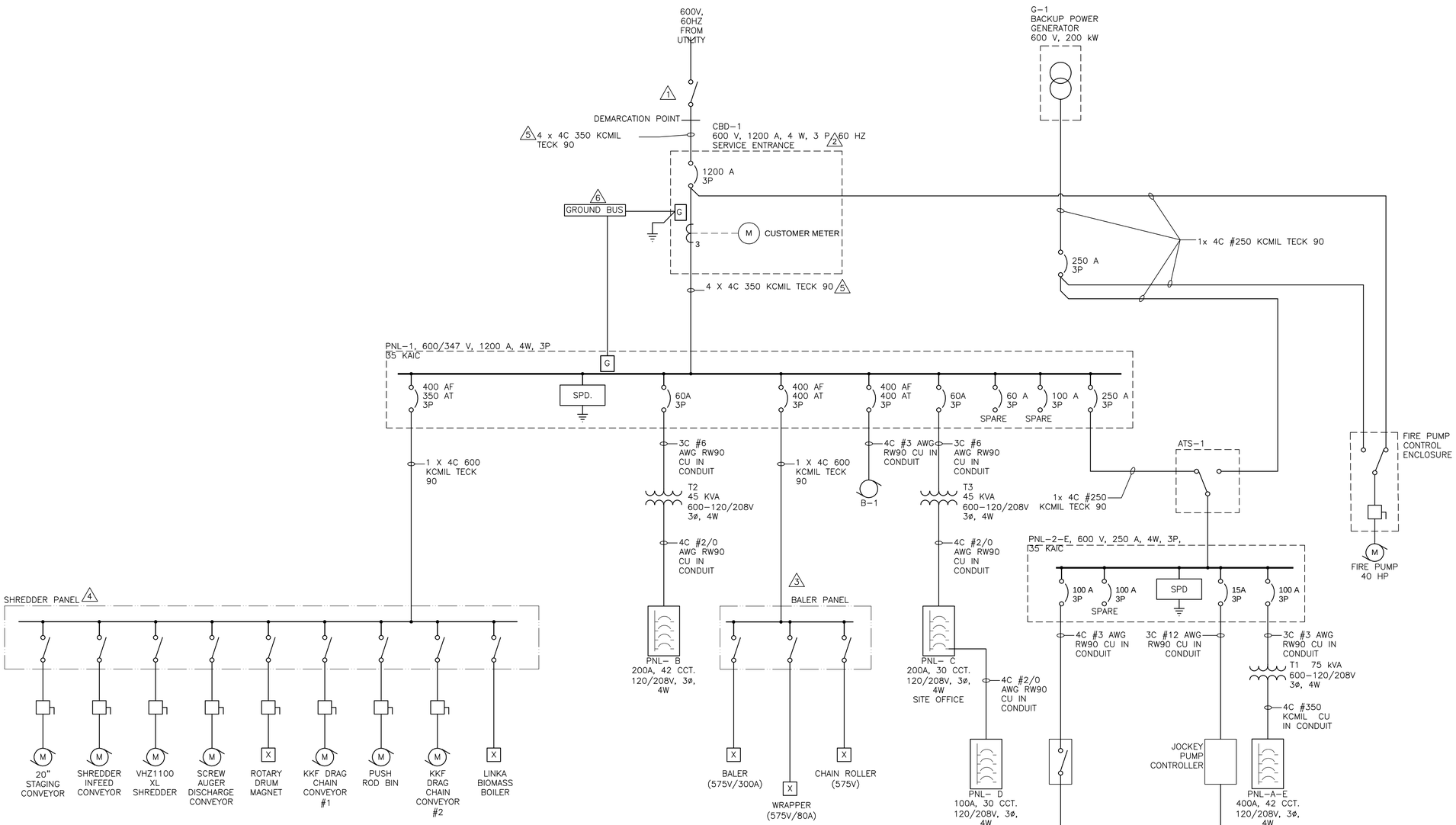

CONSTRUCTION NOTES

1. UTILITY PROVIDED
2. SERVICE ENTRANCE RATED.
3. BALER AND WRAPPER EQUIPMENT (INCLUDING CONTROL PANEL(S), DISCONNECTS, AND CABLING) IS CONTRACTOR SUPPLIED.
4. SHREDDER AND AUXILIARY SHREDDING EQUIPMENT (INCLUDING CONTROL PANEL(S), DISCONNECTS, AND CABLING) IS CONTRACTOR SUPPLIED.
5. CABLES SIZED TO TABLE 2
6. PROVIDE GROUNDING BUS AND GROUNDING CONNECTIONS TO ALL ELECTRICAL EQUIPMENT AS REQUIRED BY CANADIAN ELECTRICAL CODE
7. LOCKED ROTOR AMPS OF FIRE PUMP ESTIMATED AT 204A. CONFIRM WITH MOTOR NAMEPLATE.

LEGEND

- CABLE
- ELECTRICAL BUS
- ENCLOSURE
- FIELD ENCLOSURE
- CIRCUIT BREAKER
- MOTOR STARTER
- TRANSFORMER
- FIELD DISCONNECT
- DISCONNECT
- MOTOR
- TRANSFER SWITCH
- MISC. ELECTRICAL EQUIPMENT
- CURRENT TRANSFORMER

SINGLE LINE DIAGRAM

N.T.S.

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: CAL	REVIEWED BY: BLM
DRAWN: PDR	CHECKED BY: BLM
DATE: OCT 2019	
SCALE: SINGLE LINE DIAGRAM	

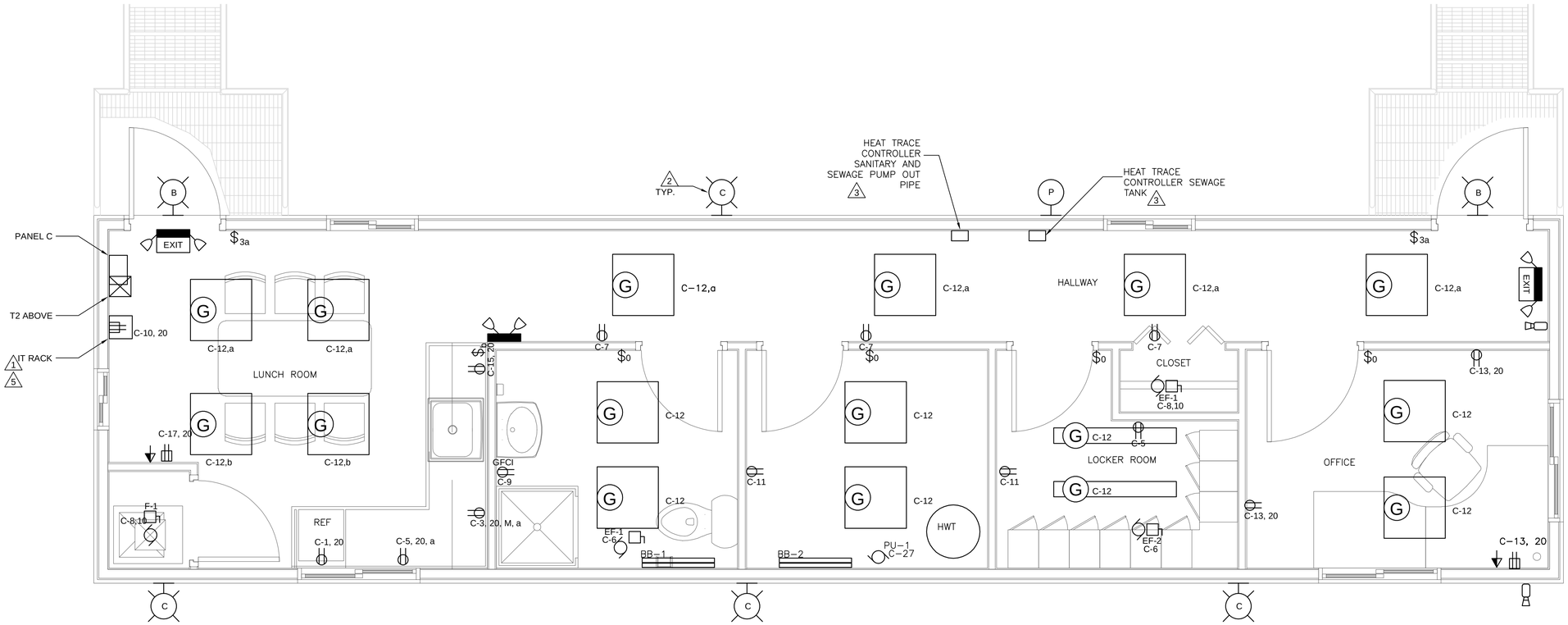
CITY OF IQALUIT
WASTE TRANSFER STATION

OVERALL SITE POWER
SINGLE LINE DIAGRAM

PROJECT NO. 19-9543

SHEET NO. WTS-E05

FILENAME: C:_PROJECTS\IQALUIT TRANSFERSECOVERED_PAVCO\19543-01-ELEC-CONN.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-01-29 @ 1:18 PM PLOT SCALE: 1:25.6974 PLOT STYLE: DILLONSTANDARD.CTB



SITE OFFICE PLAN
1:25

LEGEND

- PHOTO CELL
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- VOICE/DATA RECEPTACLE
- 2 X 2 LUMINAIRE
- STRIP LUMINAIRE
- SWITCH
- LOCAL DISCONNECT
- COMBO EXIT SIGN
- EXTERIOR LUMINAIRE
- CCTV CAMERA

SUBSCRIPT LEGEND

R – DENOTES REFRIDGERATION

M – DENOTES MICROWAVE

20 – DENOTES 20A T–SLOT

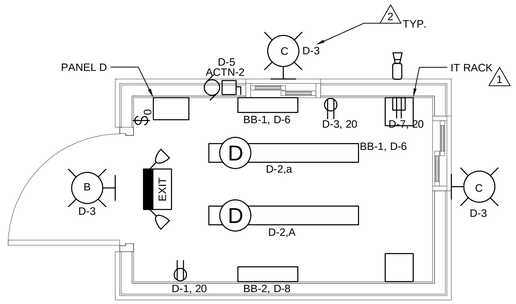
a – DENOTES ABOVE COUNTER

NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. PROVIDE LOCAL DISCONNECTS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE TRENCHING FOR POWER CABLE AND FIBRE OPTIC CABLE WITH ALL SITE SERVICES AND INSTALLATION OF THE SCALE.

CONSTRUCTION NOTES

1. PROVIDE A WALL MOUNT RACK WITH ENCLOSURE AND LOCKABLE DOOR. PROVIDE 12C PATCH PANEL FOR FIBRE OPTIC CABLE. PROVIDE 24 CCT CAT 6 PATCH PANEL FOR STRUCTURED CABLE. ROUTE ALL STRUCTURED CABLE AND TERMINATE TO PATCH PANEL
2. PROVIDE PHOTOCELL CONTROL FOR ALL EXTERIOR LIGHTING.
3. PROVIDE HEAT TRACE CABLE, WIRING, CONNECTION KITS, END SEALS, AMBIENT TEMPERATURE CONTROLLER AND ALL REQUIRED ACCESSORIES FOR A COMPETE ELECTRIC HEAT TRACE SYSTEM. PROVIDE DESIGN FROM LOCAL REPRESENTATIVE OR FACTORY FOR REVIEW.
4. SHREDDER AND AUXILIARY SHREDDING EQUIPMENT (INCLUDING CONTROL PANEL(S), DISCONNECTS, AND CABLING) IS CONTRACTOR SUPPLIED.
5. PROVIDE HEAD END AND DVR FOR CCTV SERVICE SYSTEM. PROVIDE POE CAMERAS AND SWITCHES FOR A COMPLETE SYSTEM.



SCALE HOUSE PLAN
1:25

DISTRIBUTION PANEL 'PNL-C'

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N	ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPTACLE LUNCHROOM	600	20A			35A	3000	DHWT-1	02
03	RECEPTACLE LUNCHROOM MICROWAVE	600	20A					SPACE	04
05	RECEPTACLE LUNCHROOM	600	20A			15A	100	EF-1/EF-2	06
07	RECEPTACLE HALLWAY	600	15A			60A	5000	F-1	08
09	RECEPTACLE BATHROOM	600	15A			20A	600	RECEPTACLE IT RACK	10
11	RECEPTACLE LOCKER ROOM	600	15A			20A	600	INTERIOR LTG	12
13	RECEPTACLE OFFICE	600	20A			20A	350	EXTERIOR LTG	14
15	RECEPTACLE LUNCHROOM	600	20A			15A	50	EXIT SIGNS	16
17	RECEPTACLE LUNCHROOM	600	20A			15	750	BASEBOARD HEATER BB-1	18
19	HEAT TRACE SANITARY	2000	20A			15A	750	BASEBOARD HEATER BB-2	20
21						15A		SPARE	22
23	HEAT TRACE TANK	2000	20A			15A		SPARE	24
25									26
27	PUMP PU-1	100	15A			100A		PANEL C	28
29	SPARE		15A						30

VOLTAGE: 120/208 PHASE: 3 WIRE: 4 BREAKER I.C.: 14 kAIC

MAIN BREAKER: 200A MAINS: 225A FEEDER: -

MOUNTING: FLUSH LOCATION: SITE OFFICE

FED FROM: T3/PNL-1

NOTES:

DISTRIBUTION PANEL 'PNL-D'

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N	ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPTACLE	600	20A			15A	104	INTERIOR LT6G	02
03	RECEPTACLE	600	20A			15A	350	EXTERIOR LTG	04
05	ACTN-2	600	15A			15A	500	BB-1	06
07	RECEPTACLE IT RACK	600	15			15A	500	BB-2	08
09						15A	50	EXIT SIGN	10
11									12
13									14
15									16
17									18
19	SPARE		20A			15A		SPARE	20
21	SPARE		20A			15A		SPARE	22
23	SPARE		20A			15A		SPARE	24
25	SPARE		20A			15A		SPARE	26
27	SPARE		20A			15A		SPARE	28
29	SPARE		20A			15A		SPARE	30

VOLTAGE: 120/208 PHASE: 3 WIRE: 4 BREAKER I.C.: 14 kAIC

MAIN BREAKER: 100A MAINS: 100A FEEDER: -

MOUNTING: FLUSH LOCATION: SCALE HOUSE

FED FROM: PNL-C

NOTES:

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

Iqaluit

DILLON CONSULTING

No.	ISSUED FOR	DATE	BY
3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN: CAL REVIEWED BY: BLM
DRAWN: PDR CHECKED BY: BLM
DATE: OCT 2019
SCALE: AS NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

ELECTRICAL PLAN
SITE OFFICE AND SCALE HOUSE

PROJECT NO. 19-9543

SHEET NO. WTS-E06

FILENAME: C:\PROJECTW\BESWORKING DIRECTORY\PROJECTS 2019\40SKO\NB12728\19SK40-K4-ELC-DES.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020/01/17 @ 9:55:27 AM PLOT SCALE: 1:1 PLOT STYLE: DILLON-STANDARD.CTB