

Smith Carter

Architects
Engineers
Interior Designers
Landscape Architects

Consultant

MHRC - WAVERLEY WEST PHASE 1B FOUNTAIN

TENDER DRAWINGS

JUNE 6, 2008

Project Title
MHRC-WAVERLEY WEST
PHASE 1B

SHEETS:

LANDSCAPE:

- L-0101 - SITE PLAN
- L-0102 - DETAIL PLAN
- L-0103 - COLUMN/PERGOLA PLAN
- L-0104 - GRADING PLAN
- L-0501 - DETAILS
- L-0502 - PERGOLA DETAILS
- L-0503 - BOWL DETAILS & ELEVATION

ELECTRICAL:

- ES101 - ELECTRICAL SITE PLAN
- ELP101 - ELECTRICAL PUMPHOUSE PLAN

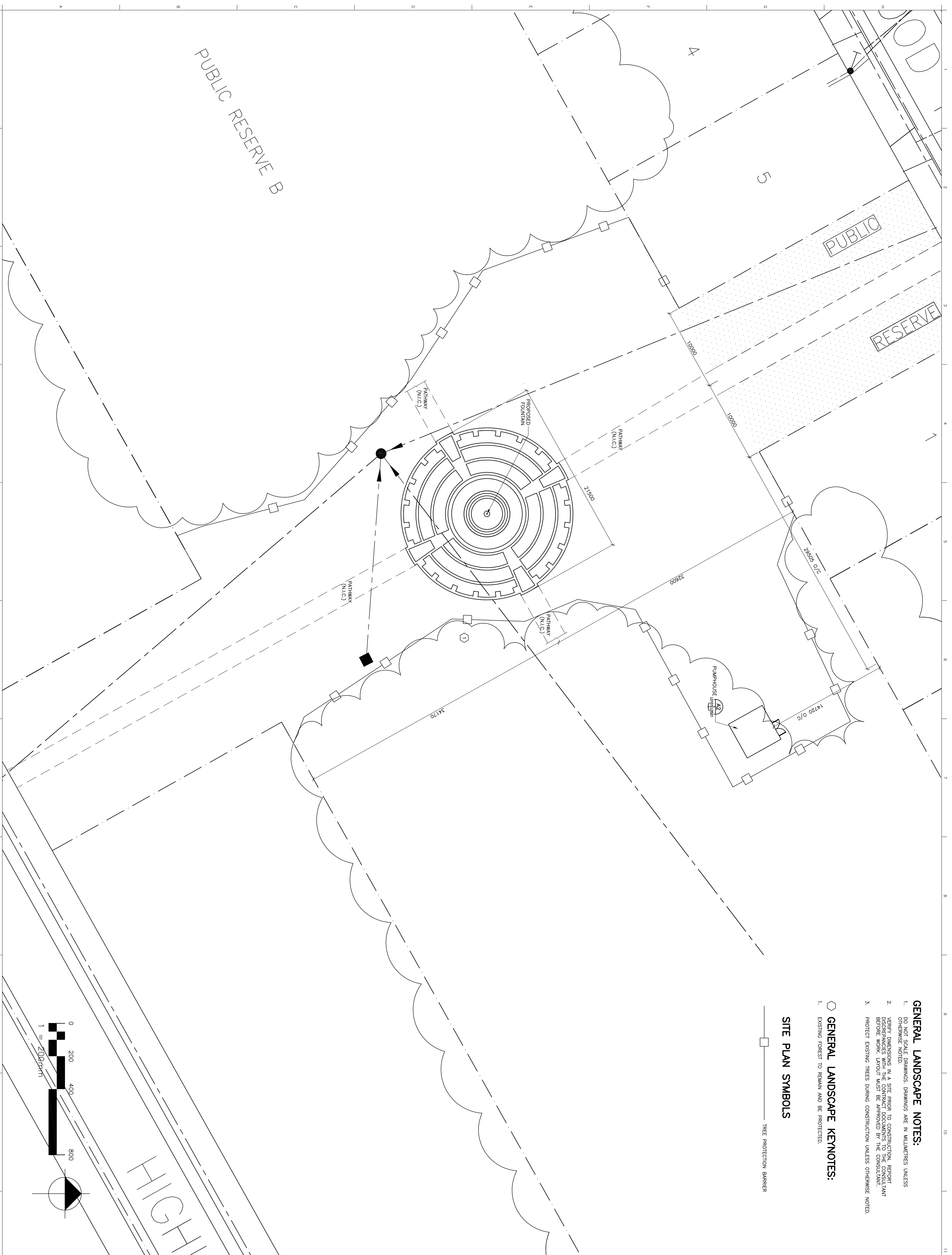
MECHANICAL:

- MG101 - MECHANICAL SITE PLAN
- M-401 - BOWL PLUMBING PLAN
PUMPHOUSE HVAC PLAN
- M-402 - PUMPHOUSE PLUMBING PLAN

TITLE SHEET

Scale: N/A
Date: 06/04/2008
Sheet Number: G-0100

Sheet Order
Project Number: 26005.25
Smith Carter



- GENERAL LANDSCAPE NOTES:**
- DO NOT SCALE DRAWINGS. DRAWINGS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 - VERIFY DIMENSIONS IN A SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO THE CONSULTANT BEFORE WORK. LAYOUT MUST BE APPROVED BY THE CONSULTANT.
 - PROTECT EXISTING TREES DURING CONSTRUCTION UNLESS OTHERWISE NOTED.

- GENERAL LANDSCAPE KEYNOTES:**
- EXISTING FOREST TO REMAIN AND BE PROTECTED.

SITE PLAN SYMBOLS

□ TREE PROTECTION BARRIER

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 Fax: (204) 477-4346

Engineers
 Planners & Designers
 Landscape Architects

Project Title
 MHRC-WAVERLEY WEST
 PHASE 1B

1	ISSUED FOR TENDER	06/06/2008	LP	EN
No.	Description	Date (m/d/y)	Drawn	Checked
Revisions/Assurance (read up)				

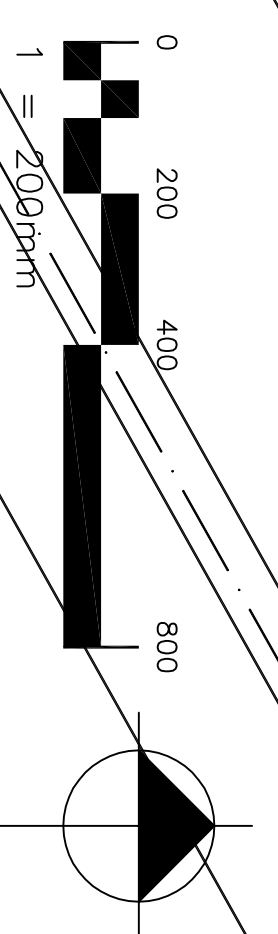
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Drawn By	OPT	Included
Checked By		Included
Approved By	EN	Included

SITE PLAN

Scales 1:200
 Date 03/18/2008
 Sheet Number

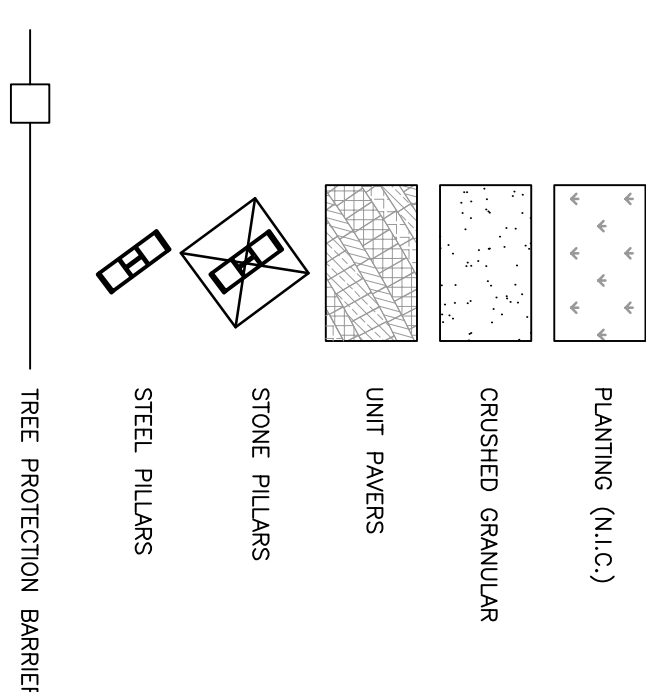
L-0101

Smith Carter
 Project Number 26005.25

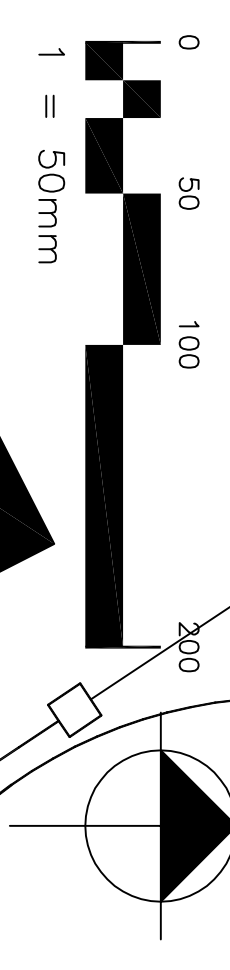
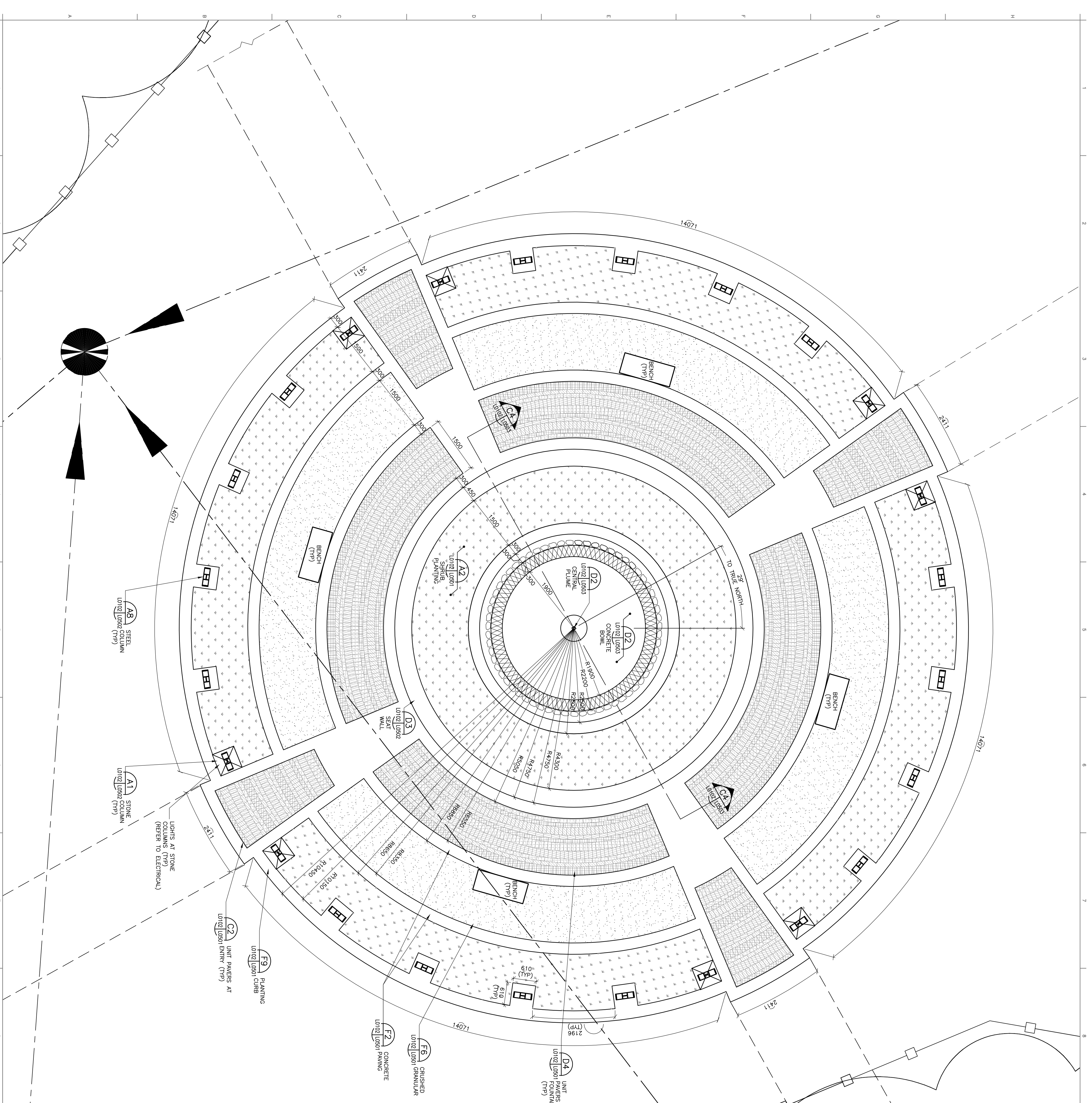


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DETAIL PLAN SYMBOLS



- GENERAL LANDSCAPE KEYNOTES:**
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Project Title
**MHRC - WAVERLEY WEST
 PHASE 1B**

Designed By	EN	Included
Drawn By	GPT	Included
Checked By		Included
Approved By	EN	Included

DETAIL PLAN

Scales 1:50
 Date 03/18/2008
 Sheet Number
L-0102

Project Number
26005.25

- GENERAL LANDSCAPE NOTES:**
1. DO NOT SCALE DRAWINGS. DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. VERIFY DIMENSIONS IN A SITE PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE WORK LAYOUT MUST BE APPROVED BY THE CONSULTANT.
 3. PROTECT EXISTING TREES DURING CONSTRUCTION UNLESS OTHERWISE NOTED.

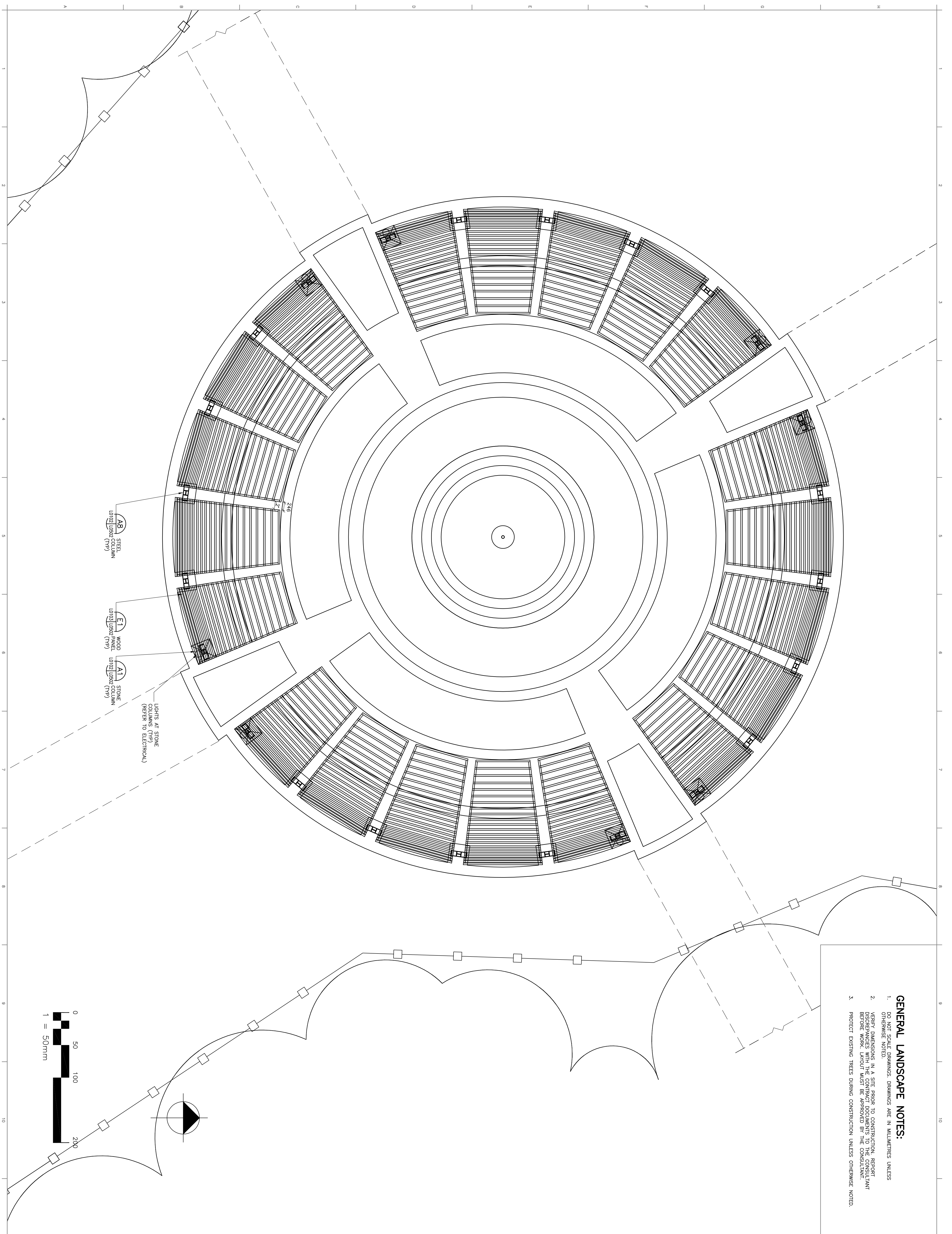
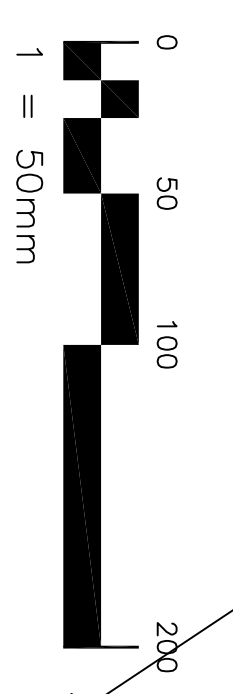
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Consultant
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 Architects
 Interior Designers
 Landscape Architects

Project Title
 MHRC-WAVERLEY WEST
 PHASE 1B

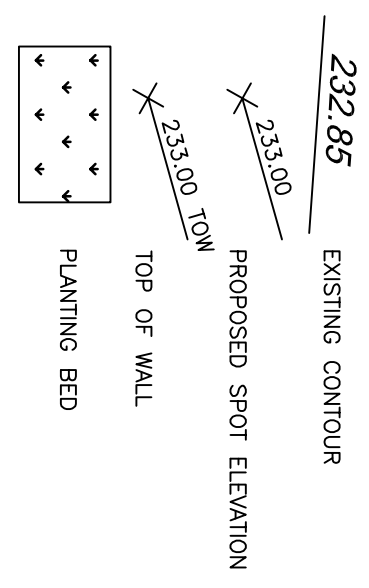
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Sheet Title COLUMN / PERGOLA PLAN																	
Scale 1:50																	
Date 02/18/2008																	
Sheet Number L-0103																	
Project Number 26005.25																	
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No.	Description	Date (m/d/y)	Drawn	Checked													
Revisions/Issuance (next up)																	

- LIGHTS AT STONE
 COLUMNS (TYP)
 (REFER TO ELECTRICAL)
- AB STEEL COLUMN (TYP)
 U1012 U0602
 - E1 WOOD PERGOLA PANEL (TYP)
 U1012 U0602
 - A1 STONE COLUMN (TYP)
 U1012 U0602



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GRADING PLAN SYMBOLS



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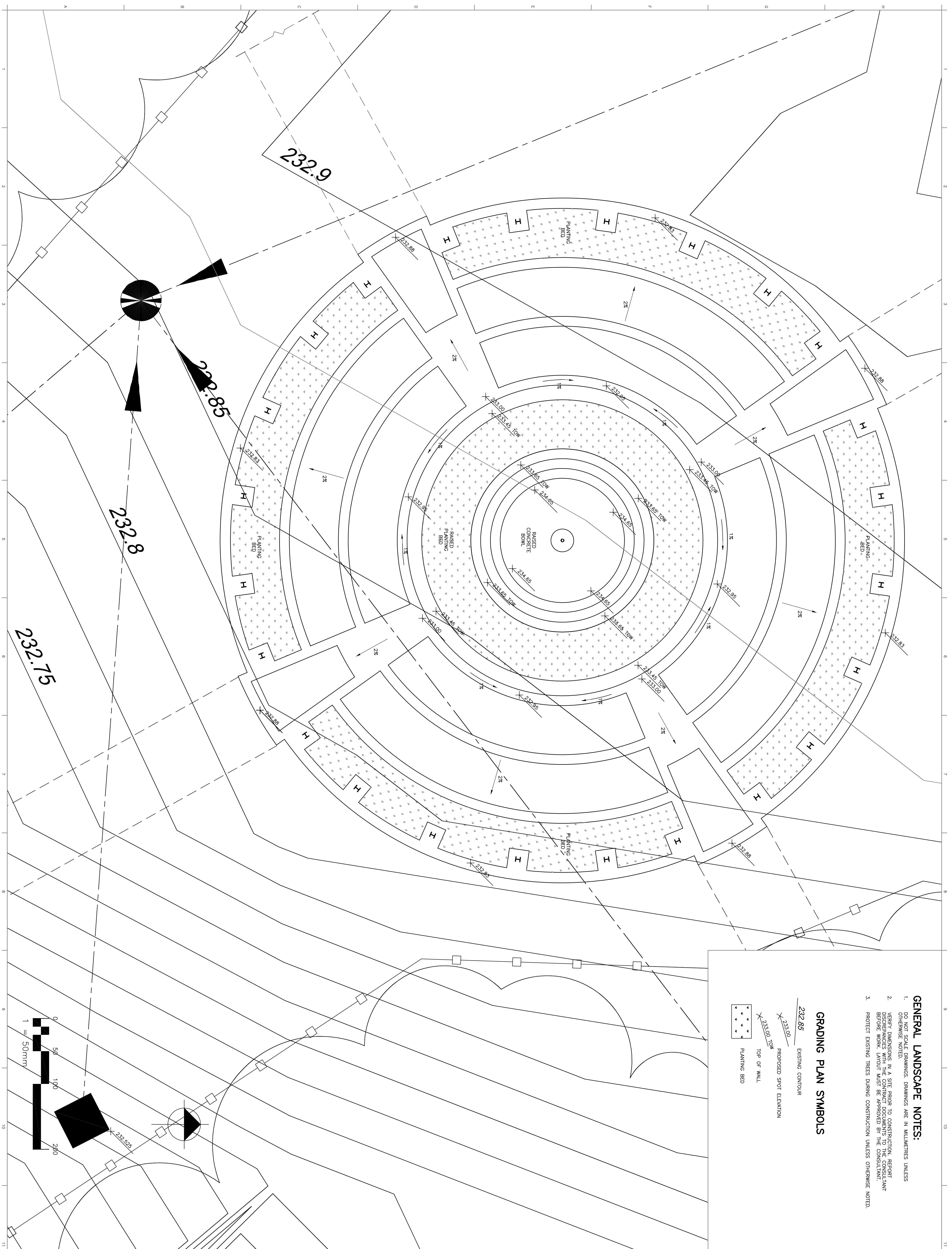
Project Title
**MHRC-WAVERLEY WEST
 PHASE 1B**

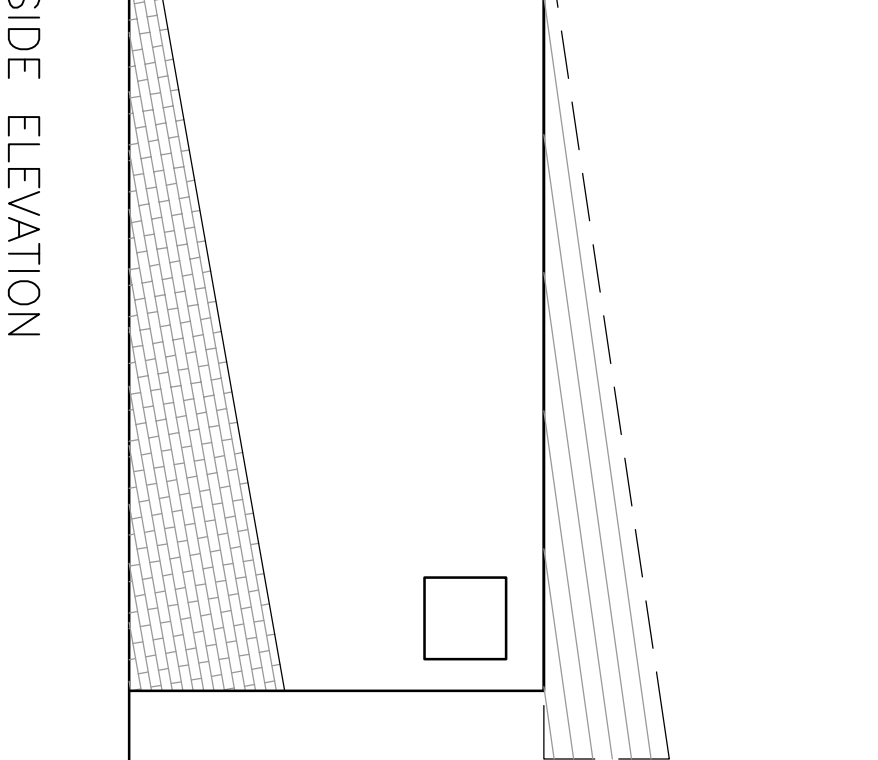
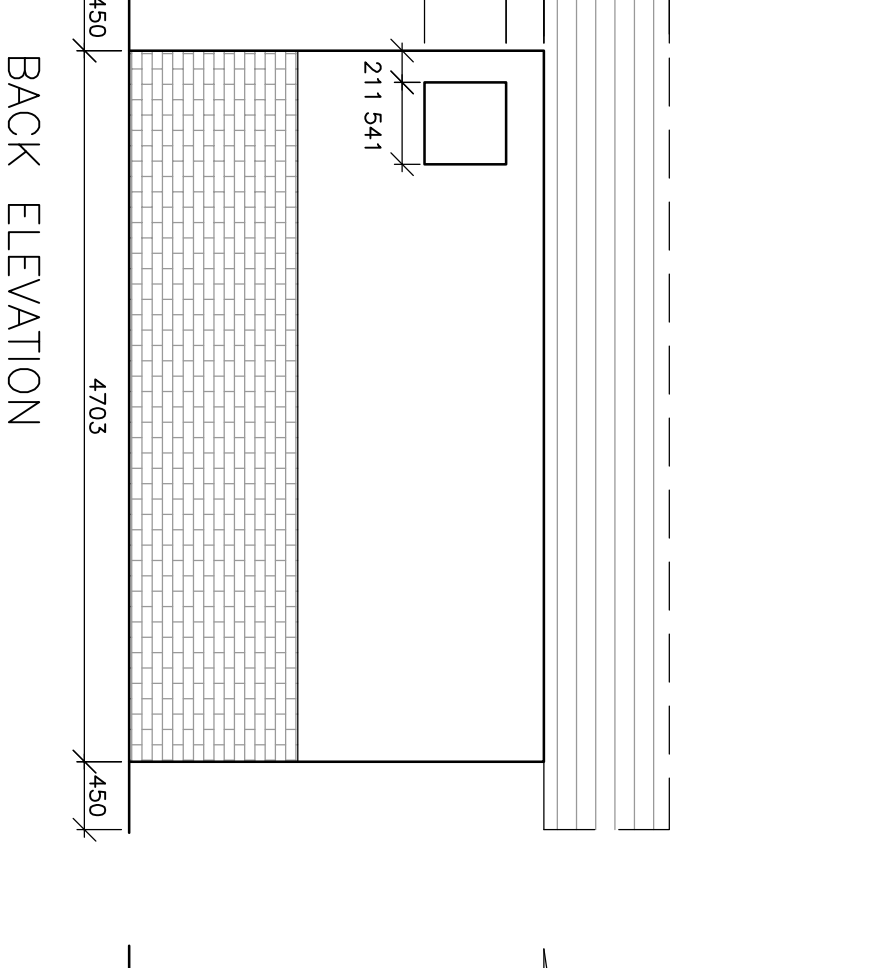
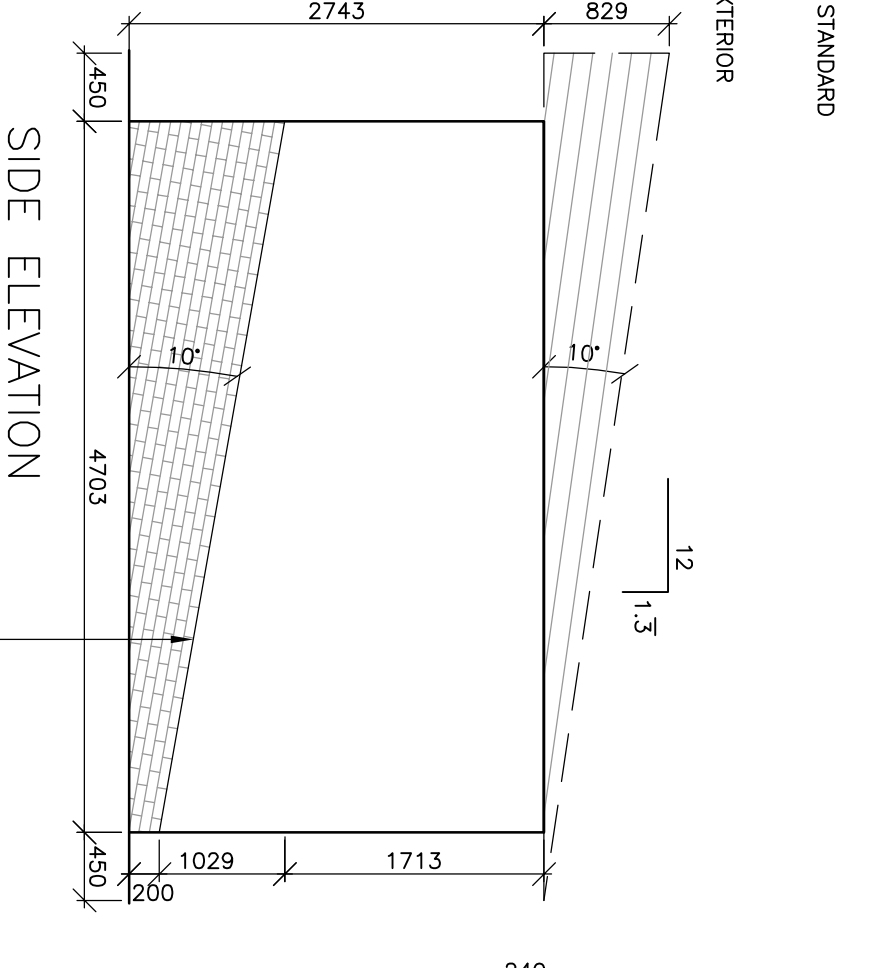
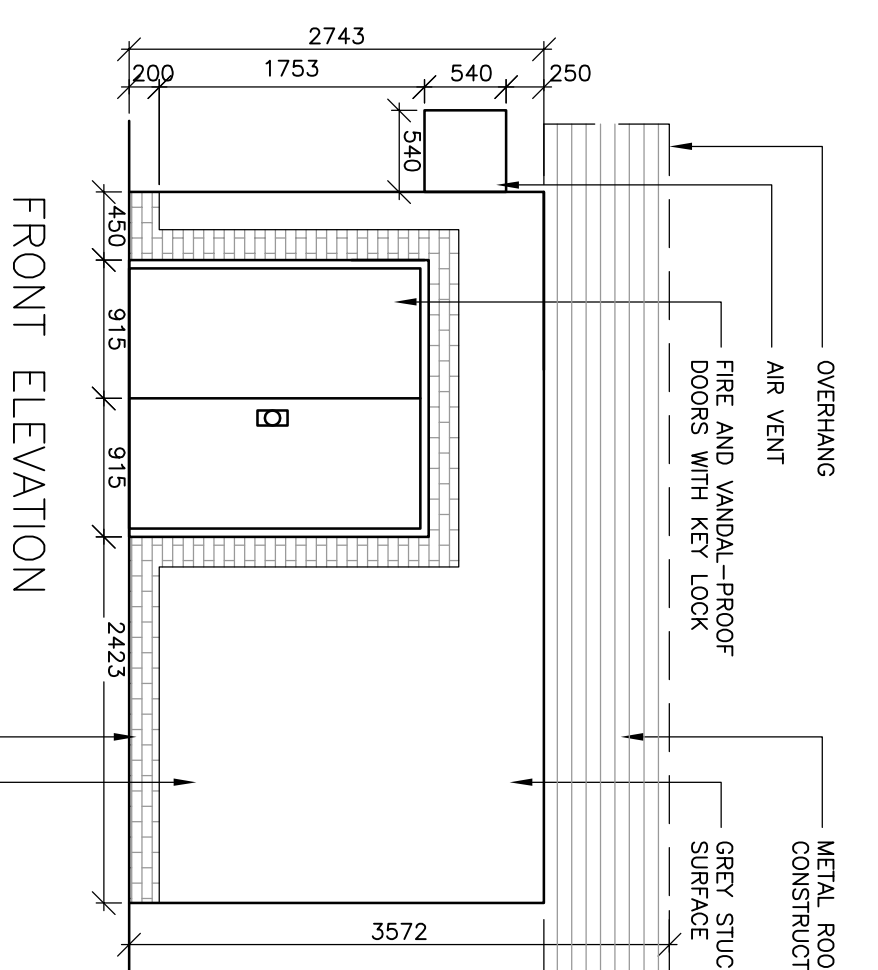
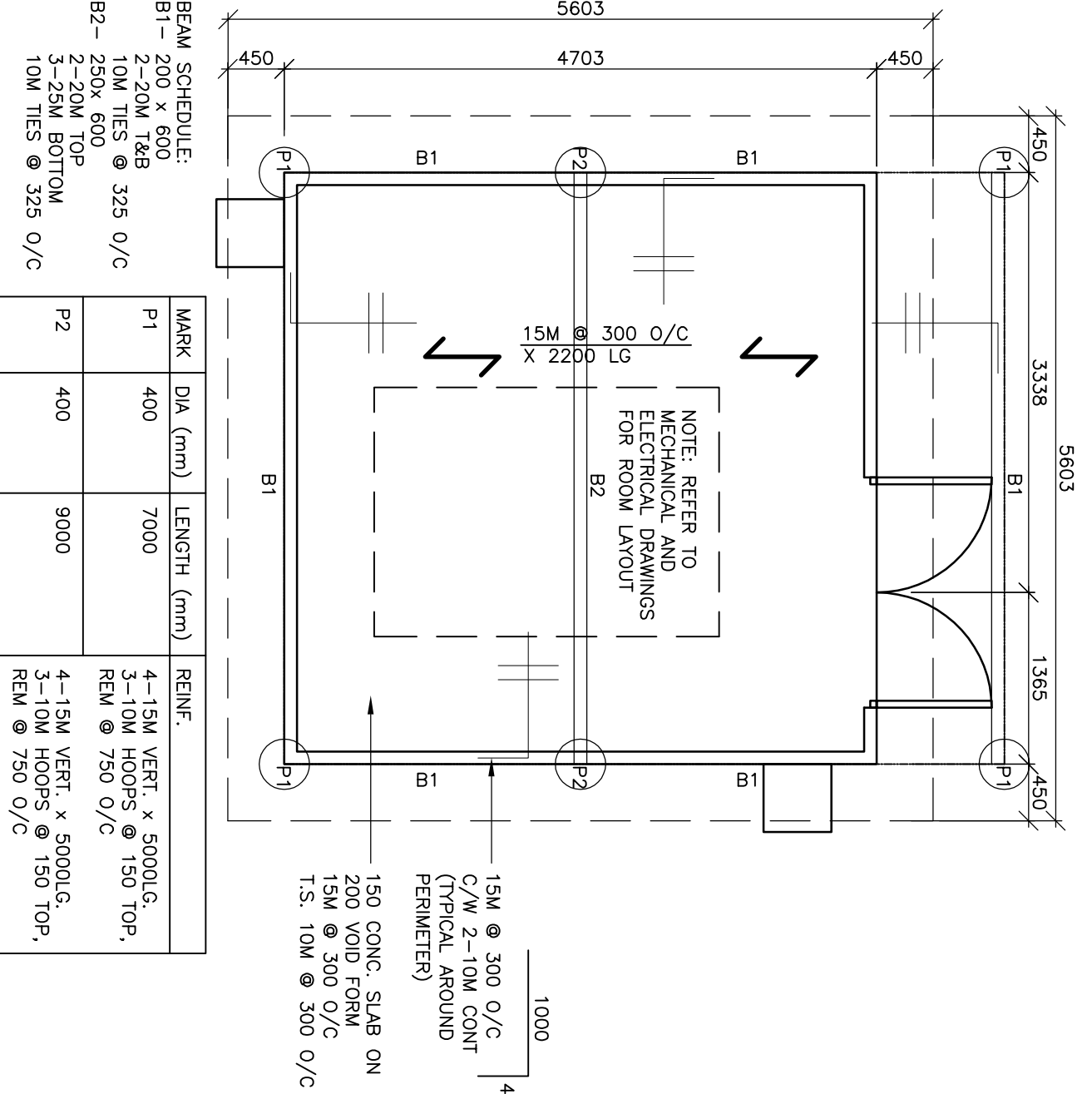
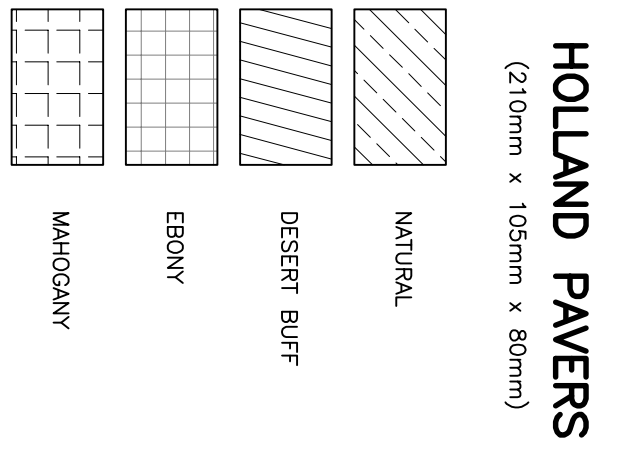
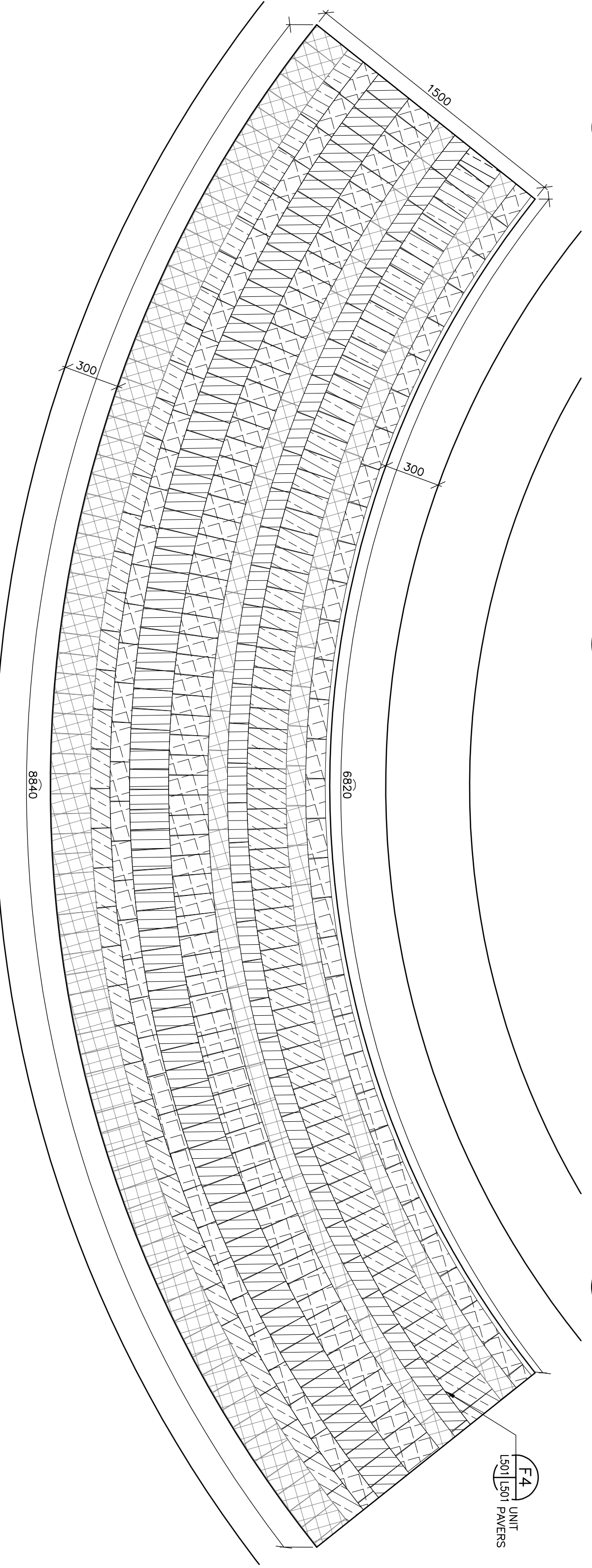
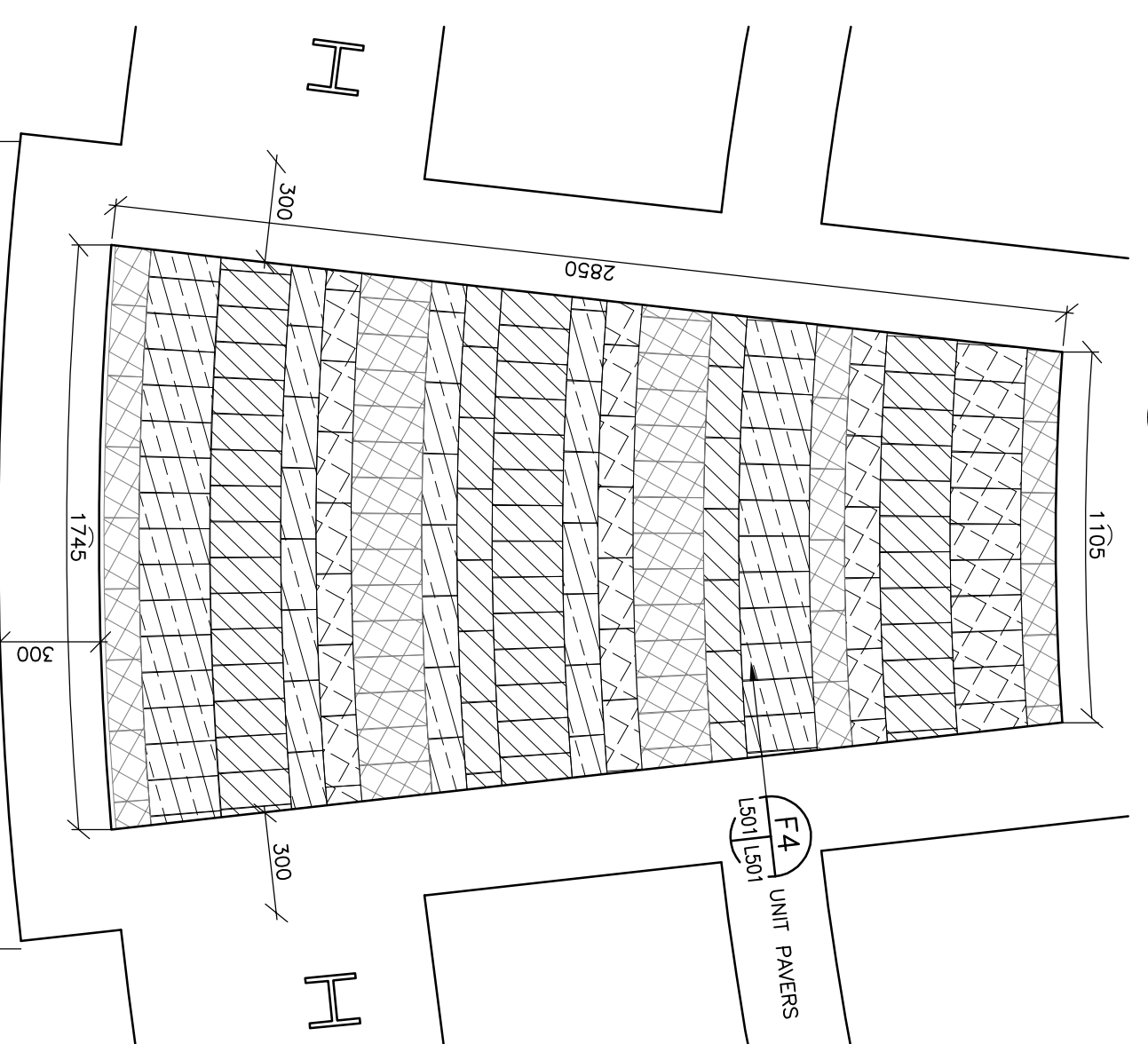
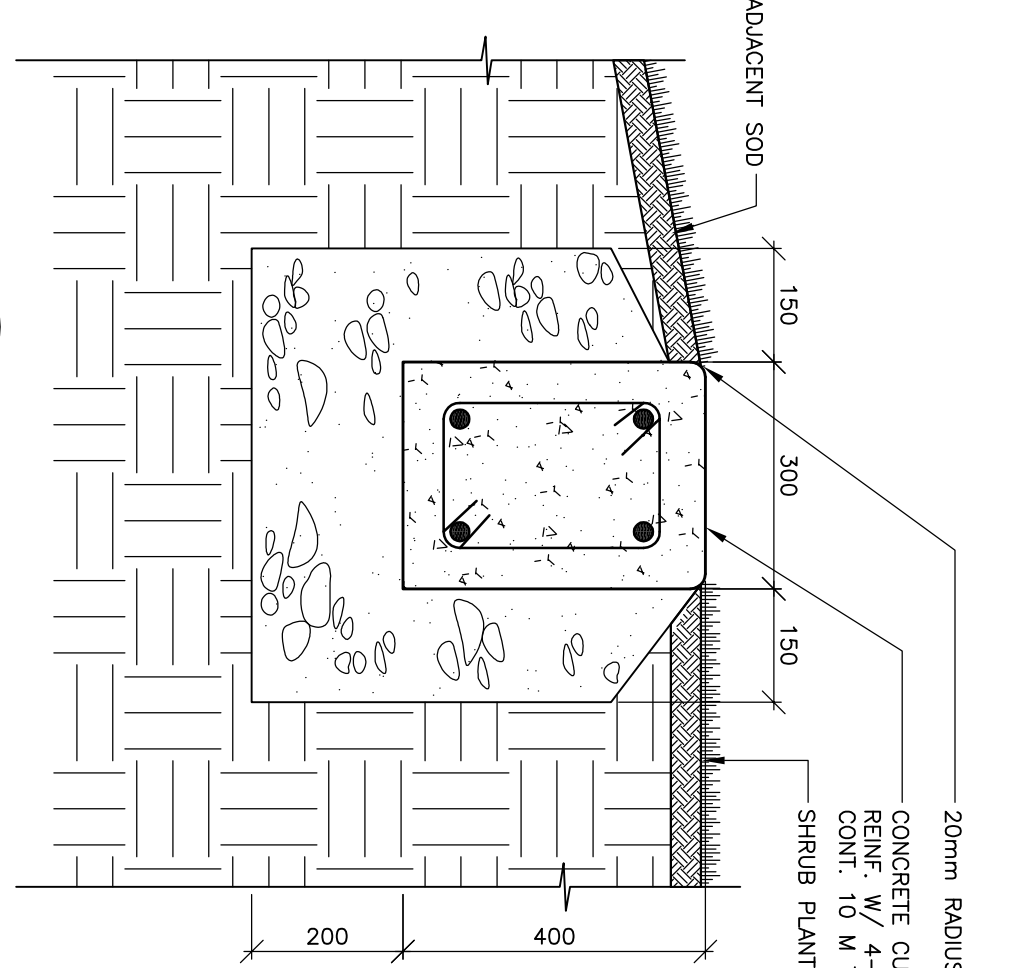
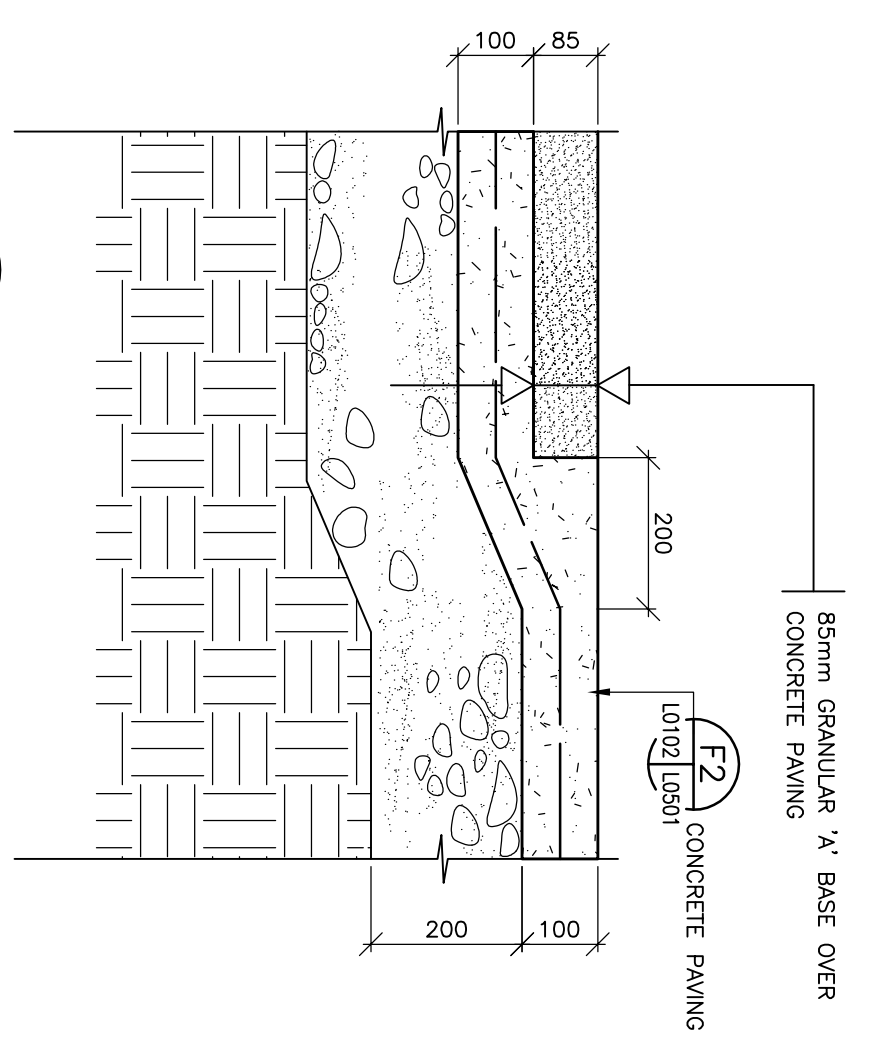
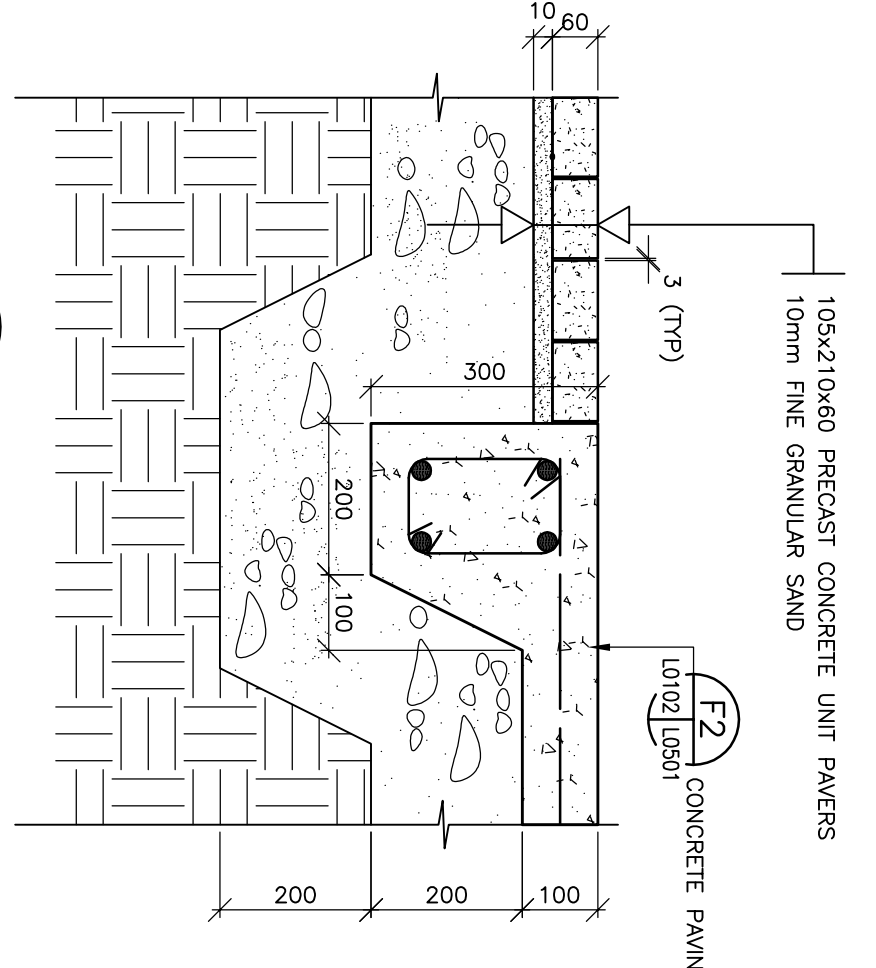
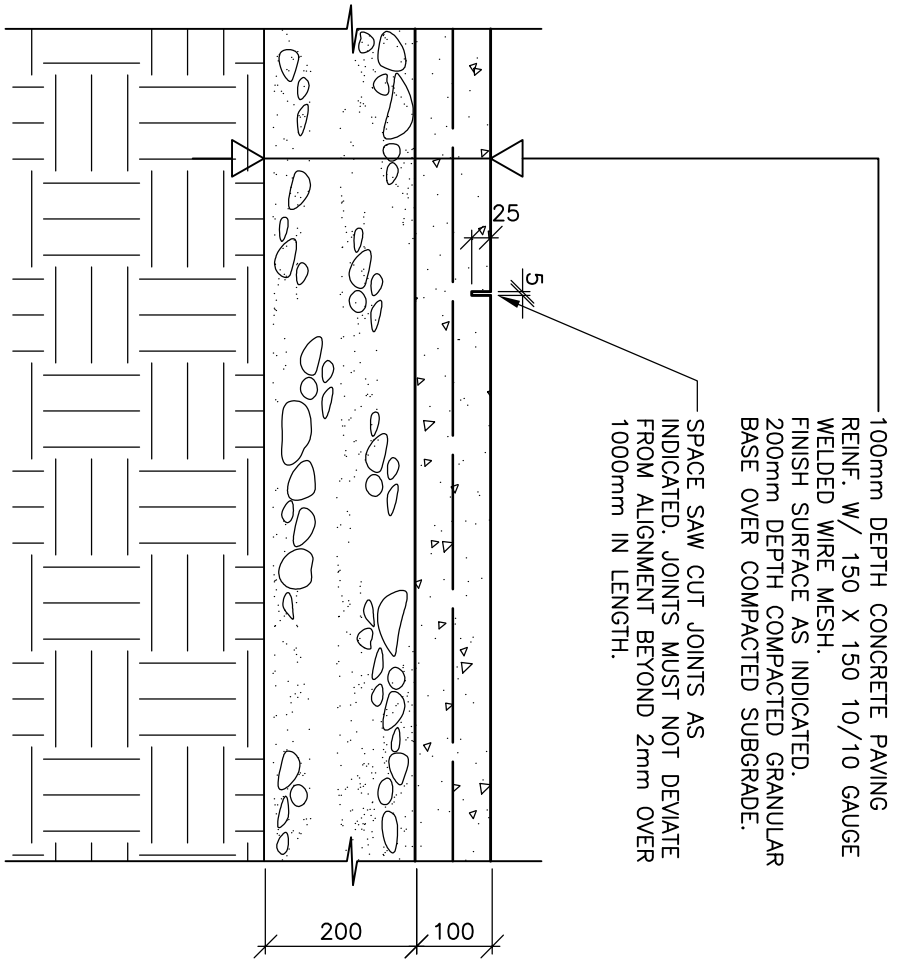
Designed By	EN	Included
Drawn By	OPT	Included
Checked By		Included
Approved By	EN	Included

GRADING PLAN

Scale 1:50
 Date 03/18/2008
 Sheet Number
L-0104

Smith Carter
 Project Number 26005.25





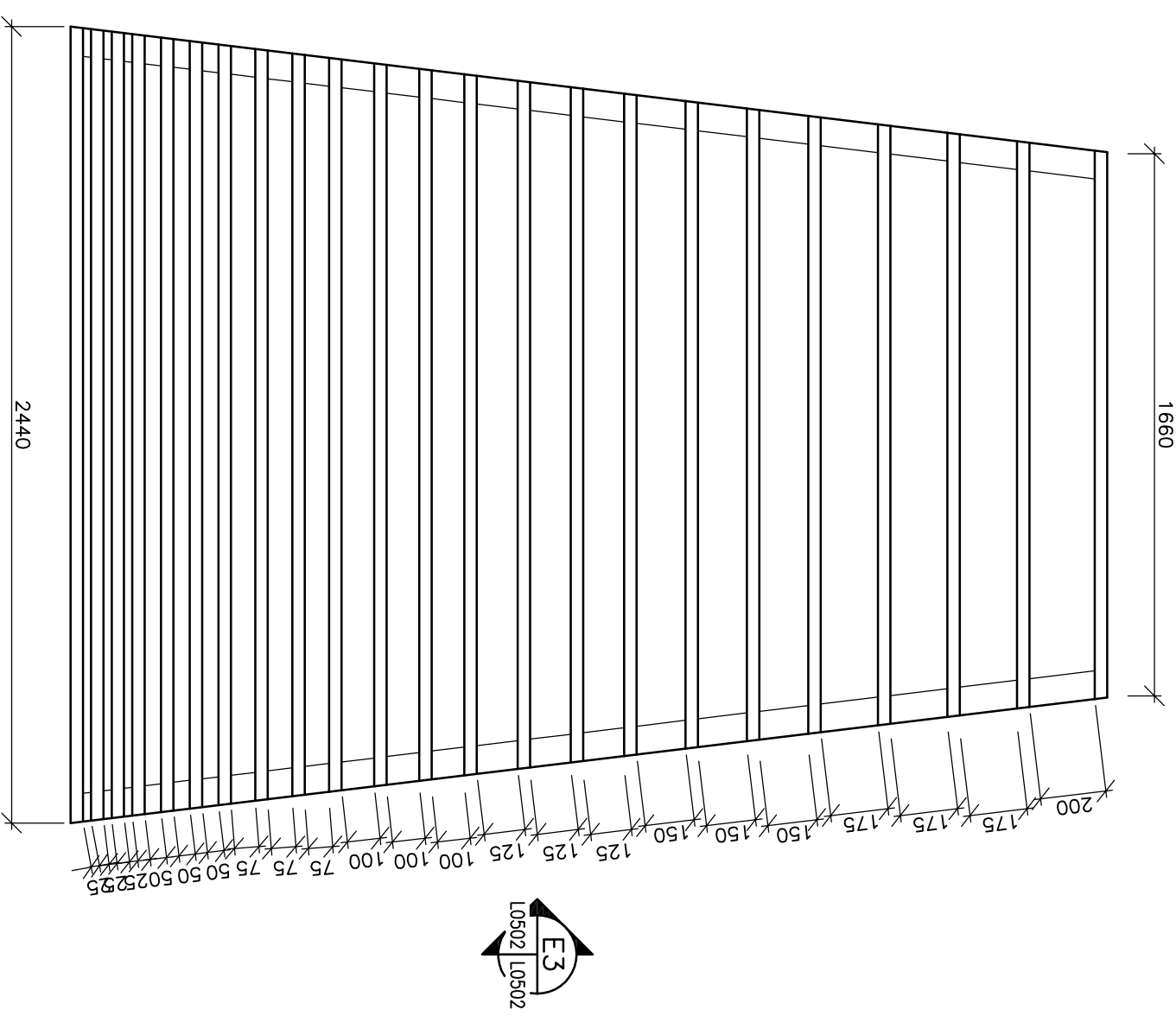
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**MHRC-WAVERLEY WEST
 PHASE 1B**

Project Title	MHRC-WAVERLEY WEST PHASE 1B
Scale	AS NOTED
Date	02/18/2008
Sheet Number	L-0501
1 ISSUED FOR TENDER	06/06/2008 LP EN
No. Description	Date (m/d/y) Drawn Checked
Revisions/Assume (read up)	
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Drawn By	BPT
Checked By	EN
Approved By	EN

Smith Carter
 Project Number
 26005.25

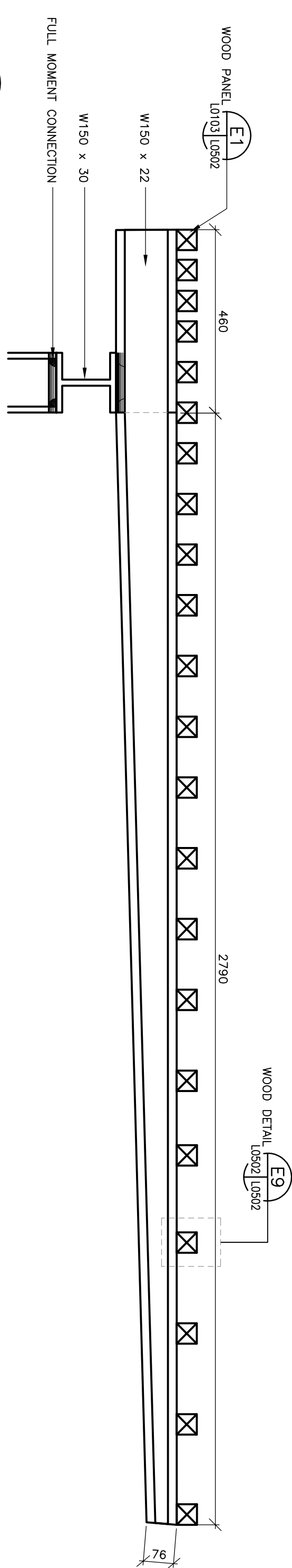
NOTE: ALL WOOD TO BE WESTERN RED CEDAR LUMBER GRADE "A" AND CERTIFIED BY CON LUMBER STANDARDS ACCREDITATION BOARD. LUMBER TO BE FREE FROM WARPING OR DEFECTS AND COMPLY WITH CSA-0141, CANADIAN LUMBER MARKING SYSTEM (CLMS) REQUIREMENTS FOR GRADE ELEVATIONS, SQUARE AND PLUMB. FASTENERS TO BE GALVANIZED TO CSA-0164 STANDARD.



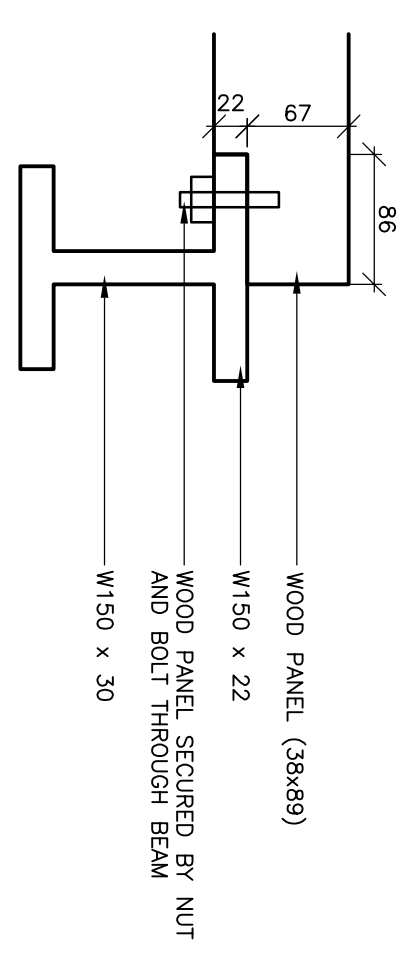
E1 WOOD PANEL
L0103 | L0502 | 1:20



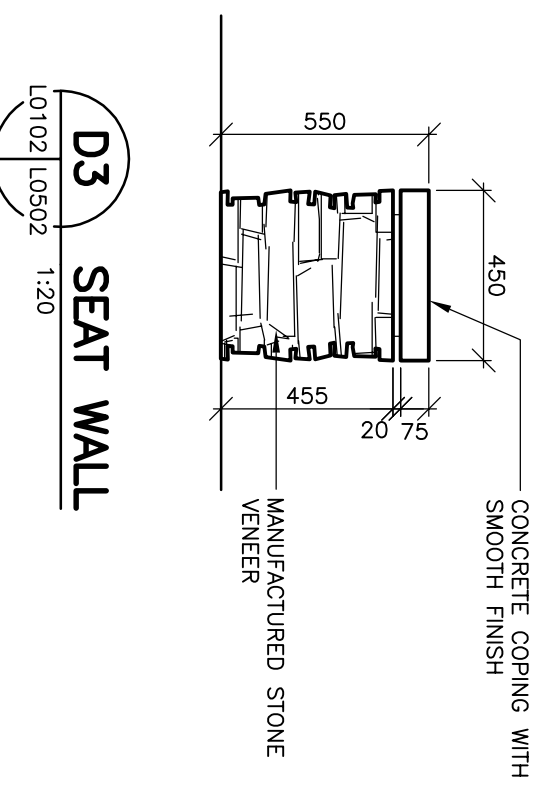
NOTE: ALL EXPOSED STRUCTURAL STEEL TO BE GALVANIZED



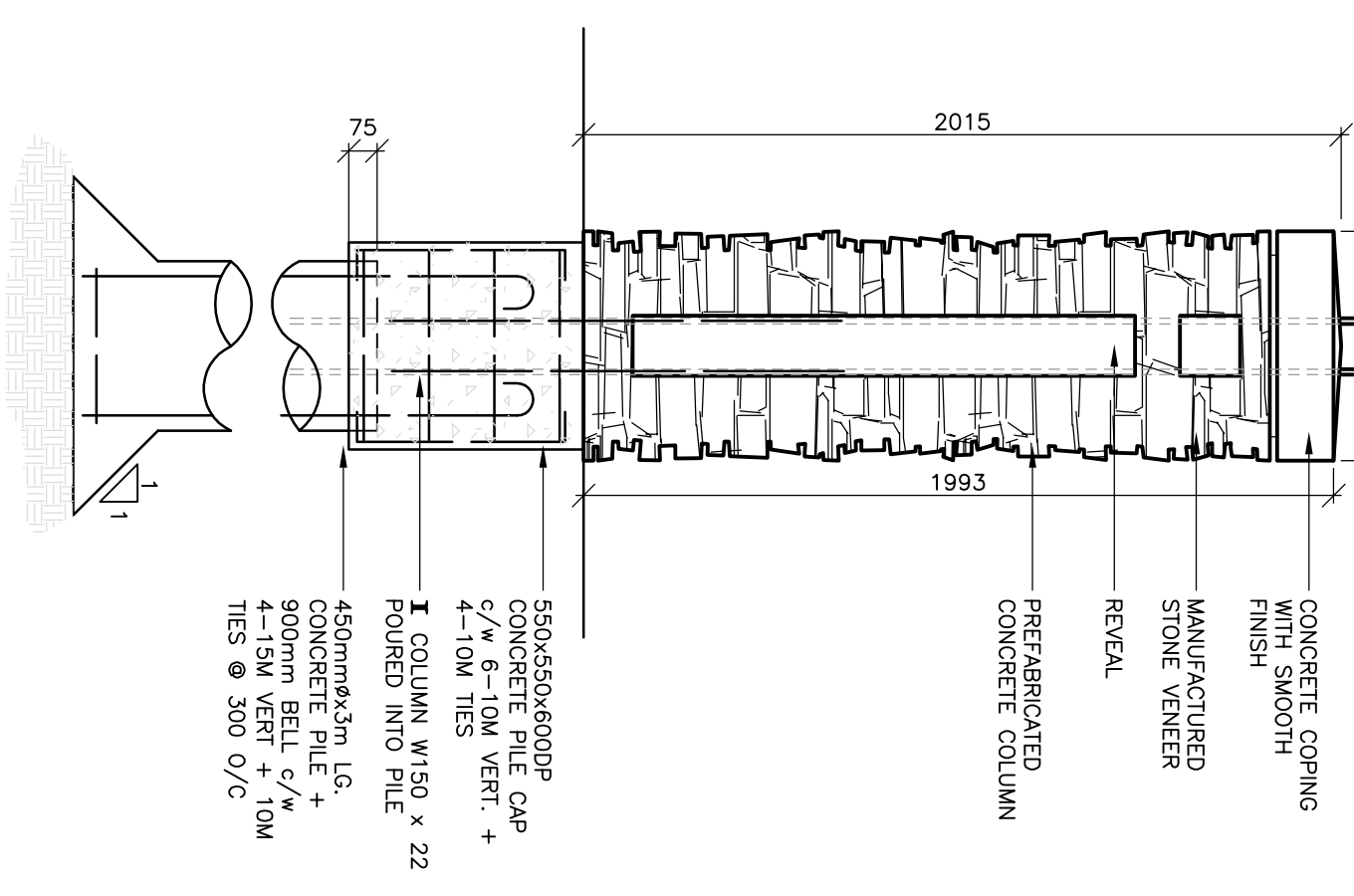
E3 WOOD PANEL - SIDE VIEW
L0502 | L0502 | 1:10



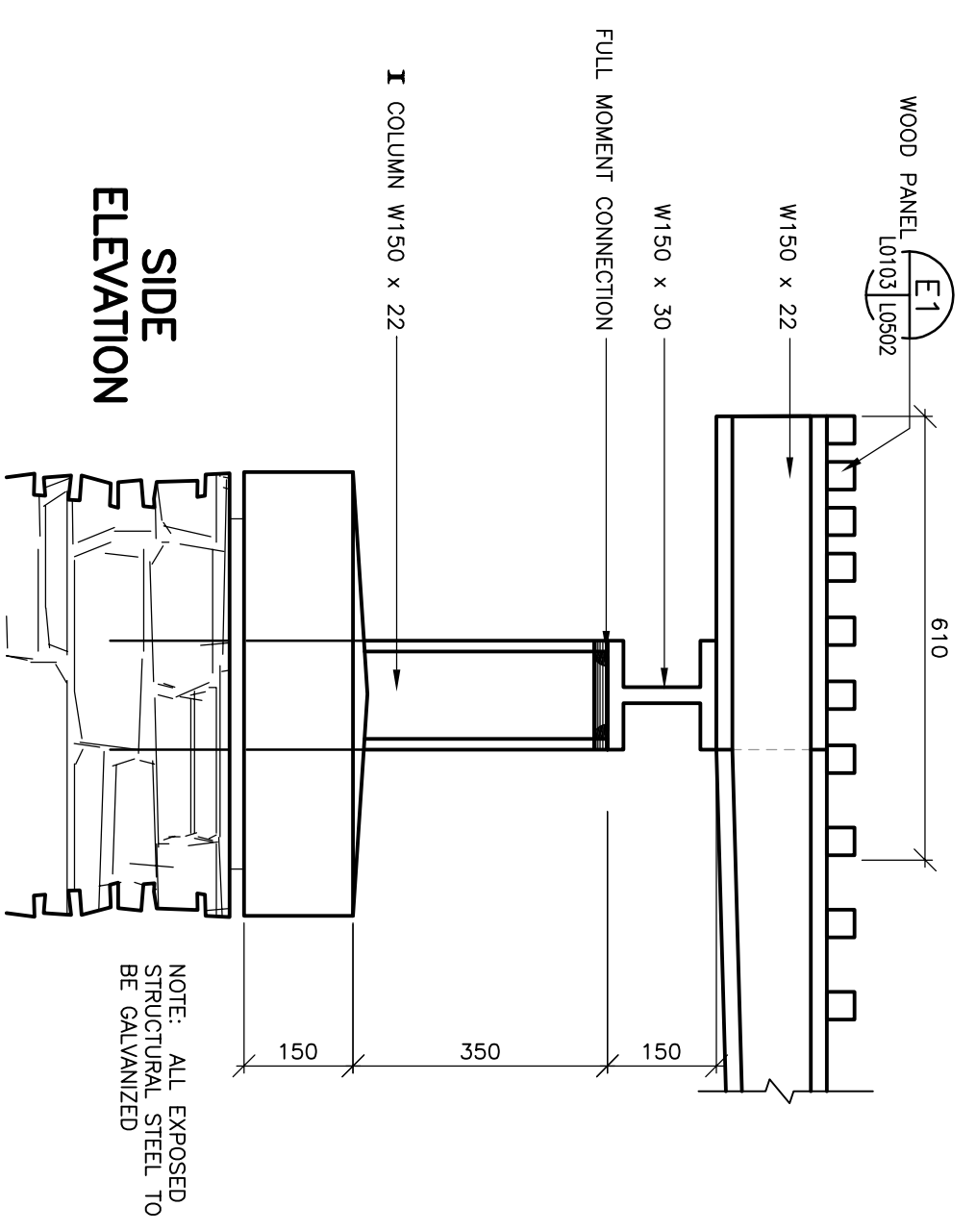
E9 WOOD DETAIL
L0502 | L0502 | 1:5



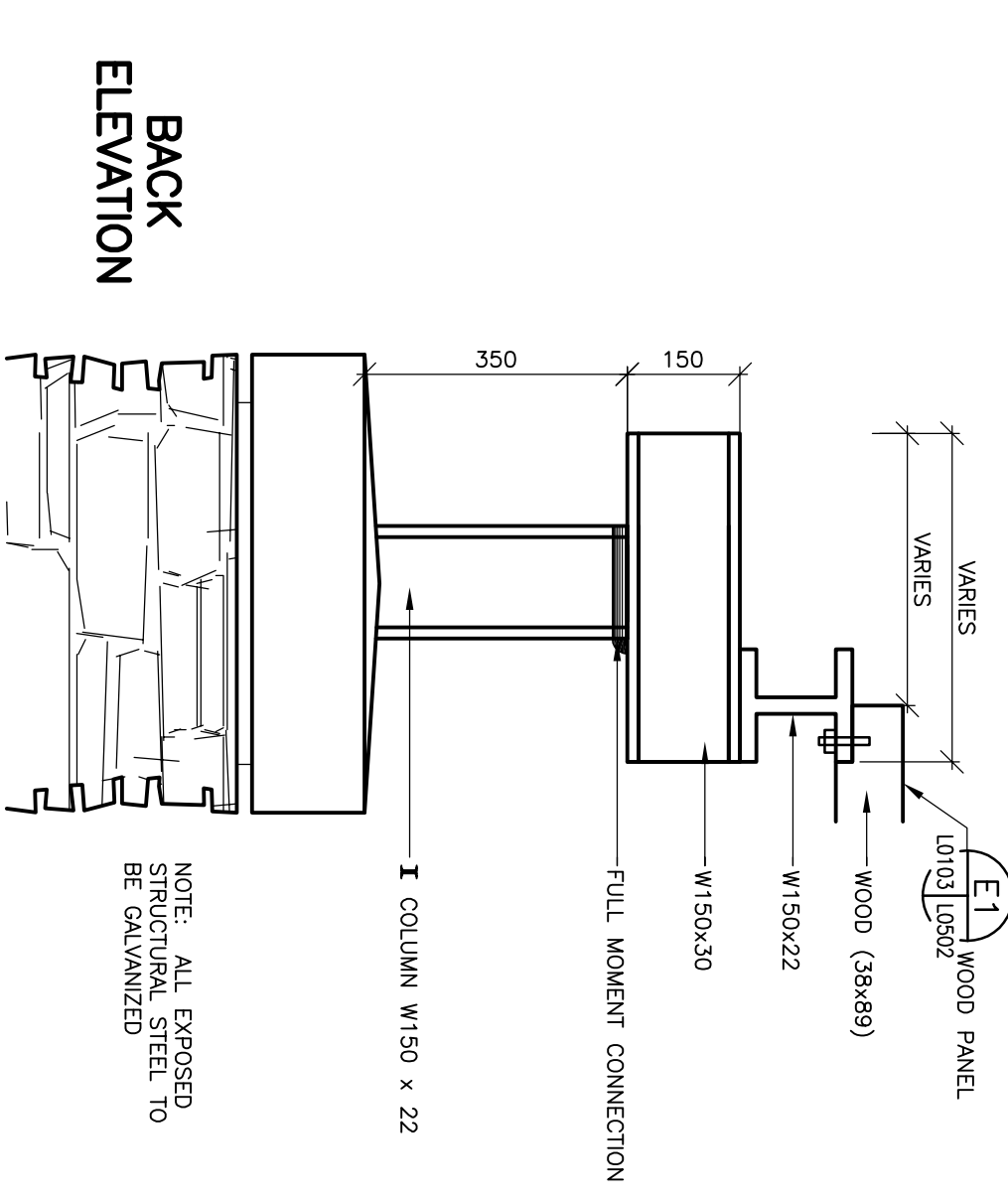
D3 SEAT WALL
L0107 | L0502 | 1:20



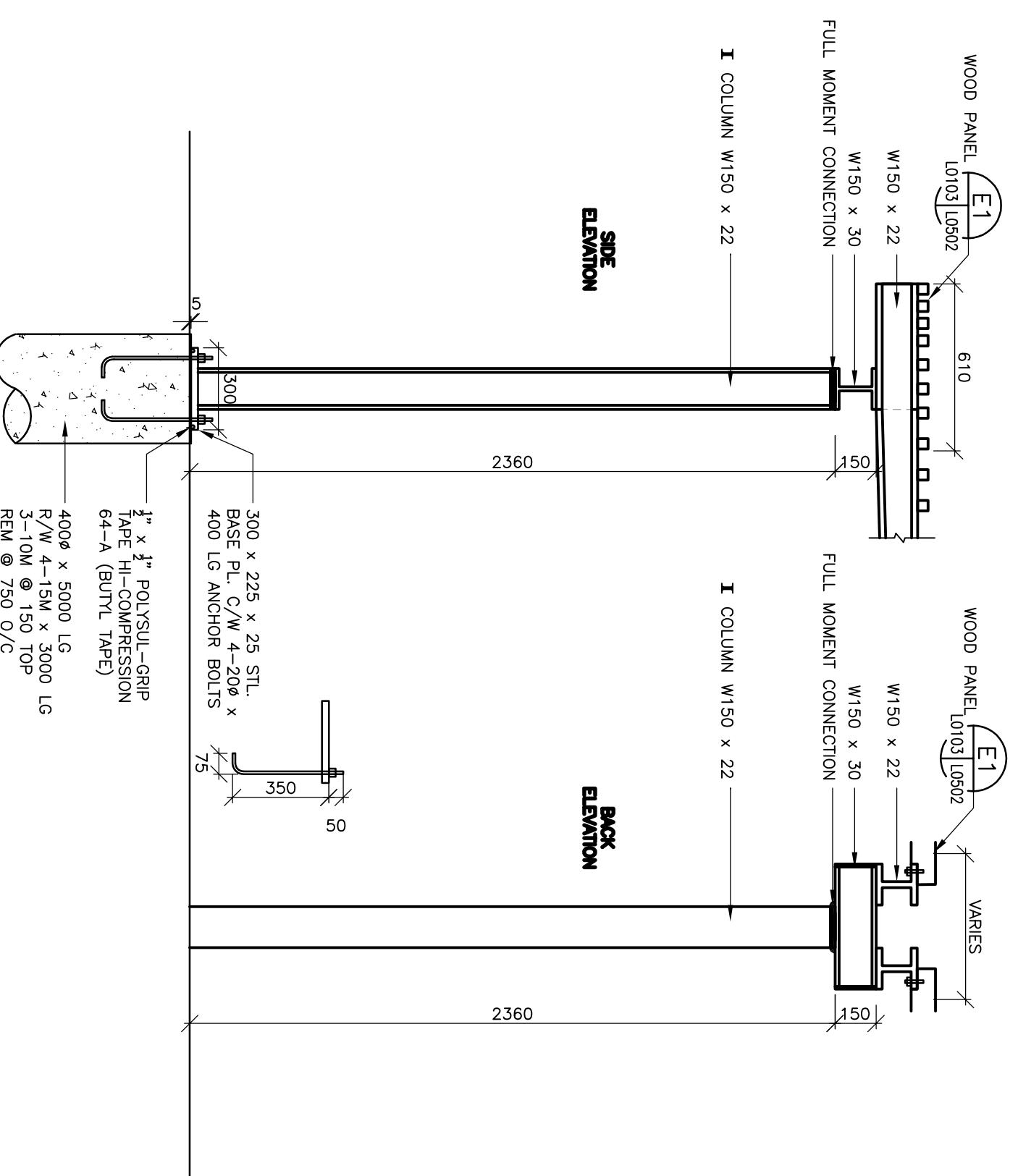
A1 STONE COLUMN
L0103 | L0502 | 1:20



A3 PERGOLA SUPPORTS
L0502 | L0502 | 1:10



A8 STEEL COLUMN (TYP)
L0103 | L0502 | 1:20



A8 STEEL COLUMN (TYP)
L0103 | L0502 | 1:20

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MHRC-WAVERLEY WEST
PHASE 1B

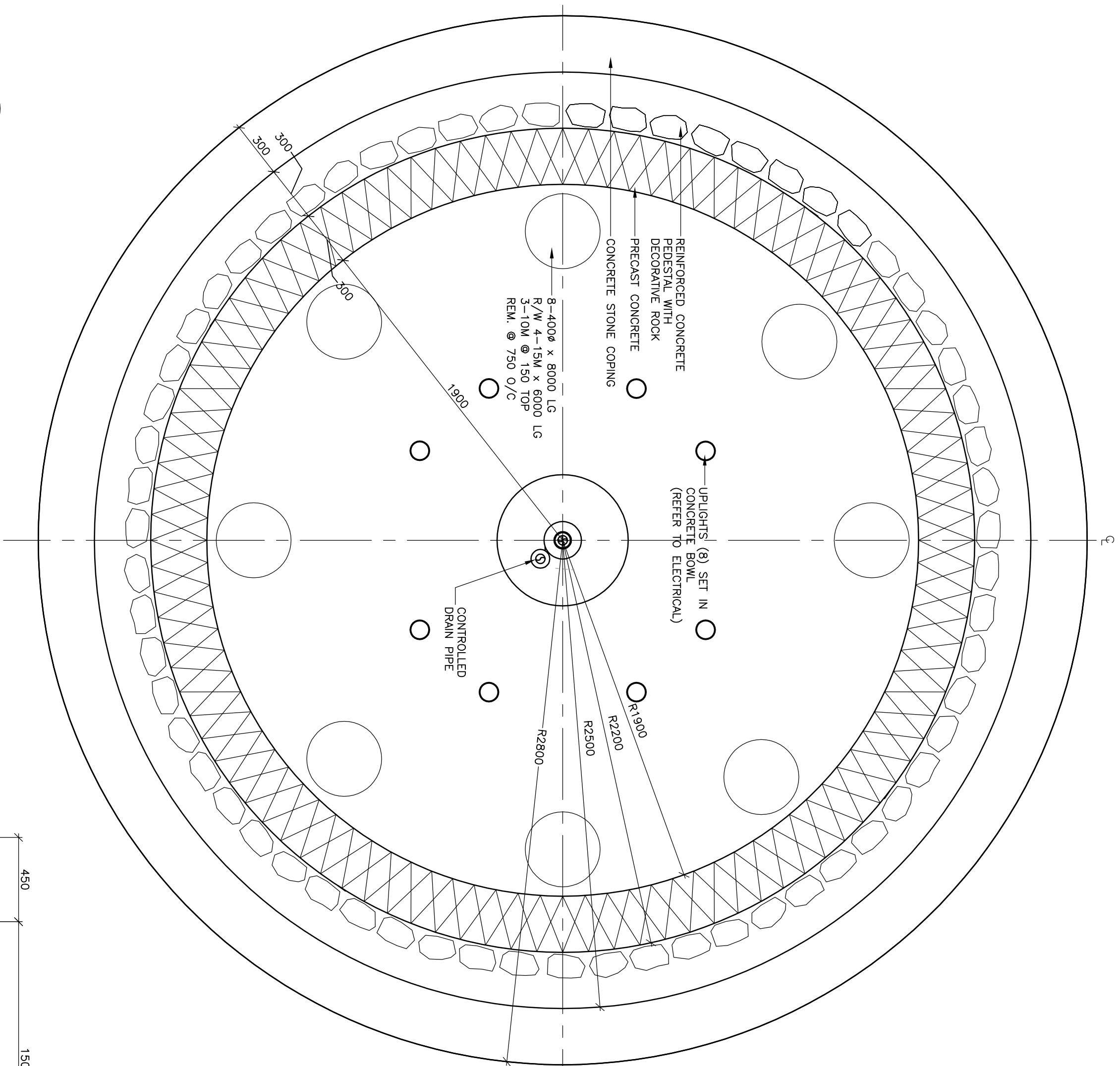
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Drawn By	DJT	Included
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PERGOLA DETAILS

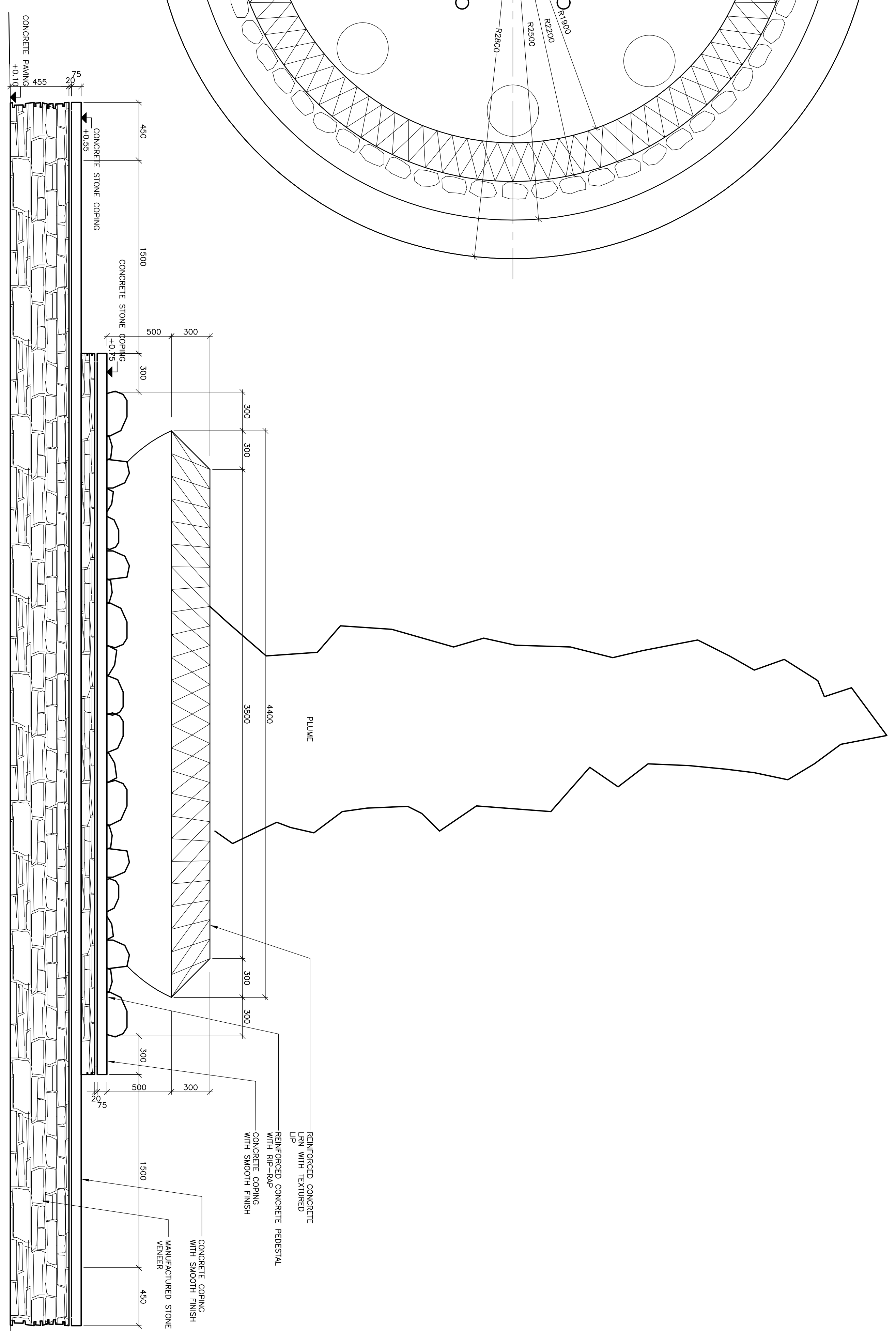
Scales AS SHOWN
Date 02/18/2008

Sheet Number
L-0502

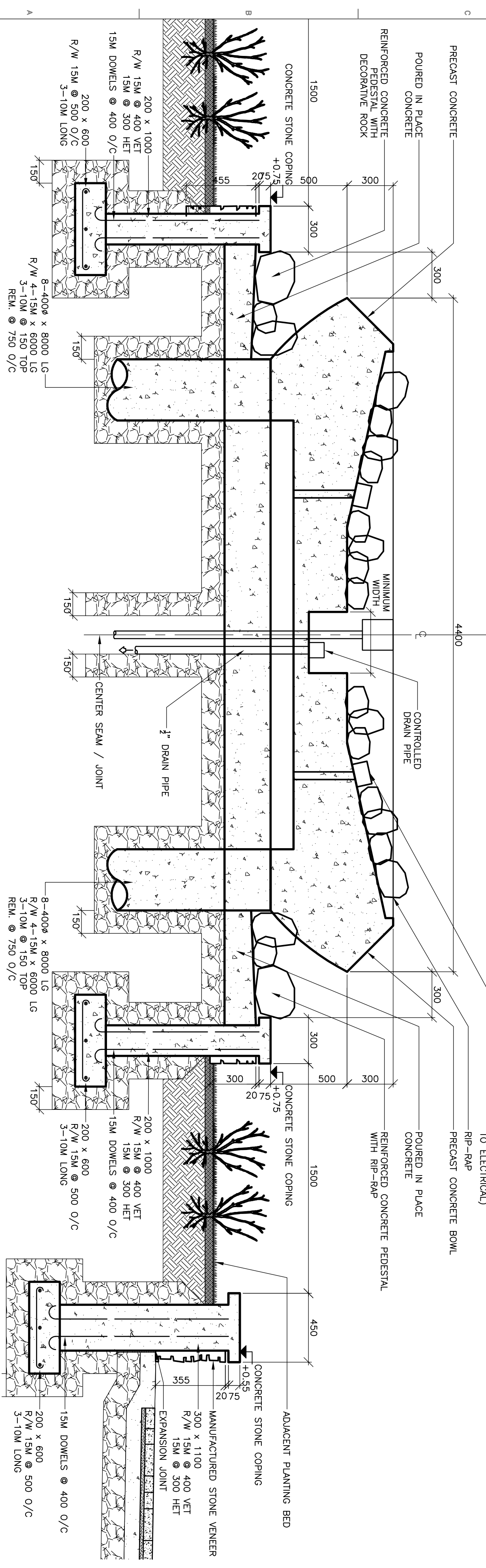
Project Number
26005.25



D2 CONCRETE BOWL
L0102 L0503 1:20



C4 FOUNTAIN ELEVATION
L0102 L0503 1:20



A3 CONCRETE BOWL DETAIL SECTION
L0503 L0503 1:20



A4 CONCRETE BOWL DETAIL SECTION
L0503 L0503 1:20

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Project Title
**MHRC-WAVERLEY WEST
PHASE 1B**

1	ISSUED FOR TENDER	06/06/2008	LP	EN
No.	Description	Date (m/d/y)	Drawn	Checked
Revision/Assume (read up)				

Designed By	EN	Included
Drawn By	GPT	Included
Checked By		Included
Approved By	EN	Included

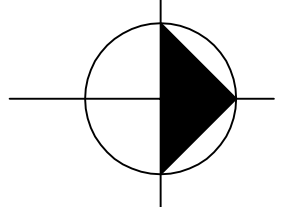
BOWL DETAILS & ELEVATION	
Scales	1:20
Date	04/14/2008
Sheet Number	L-0503

Sheet Order
Smith Carter
Project Number
26005.25

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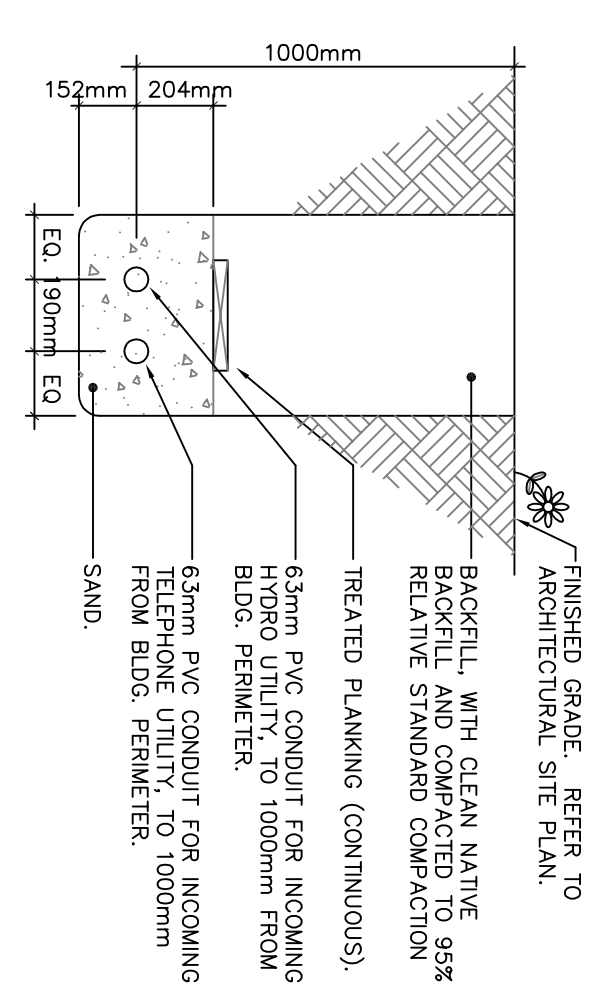
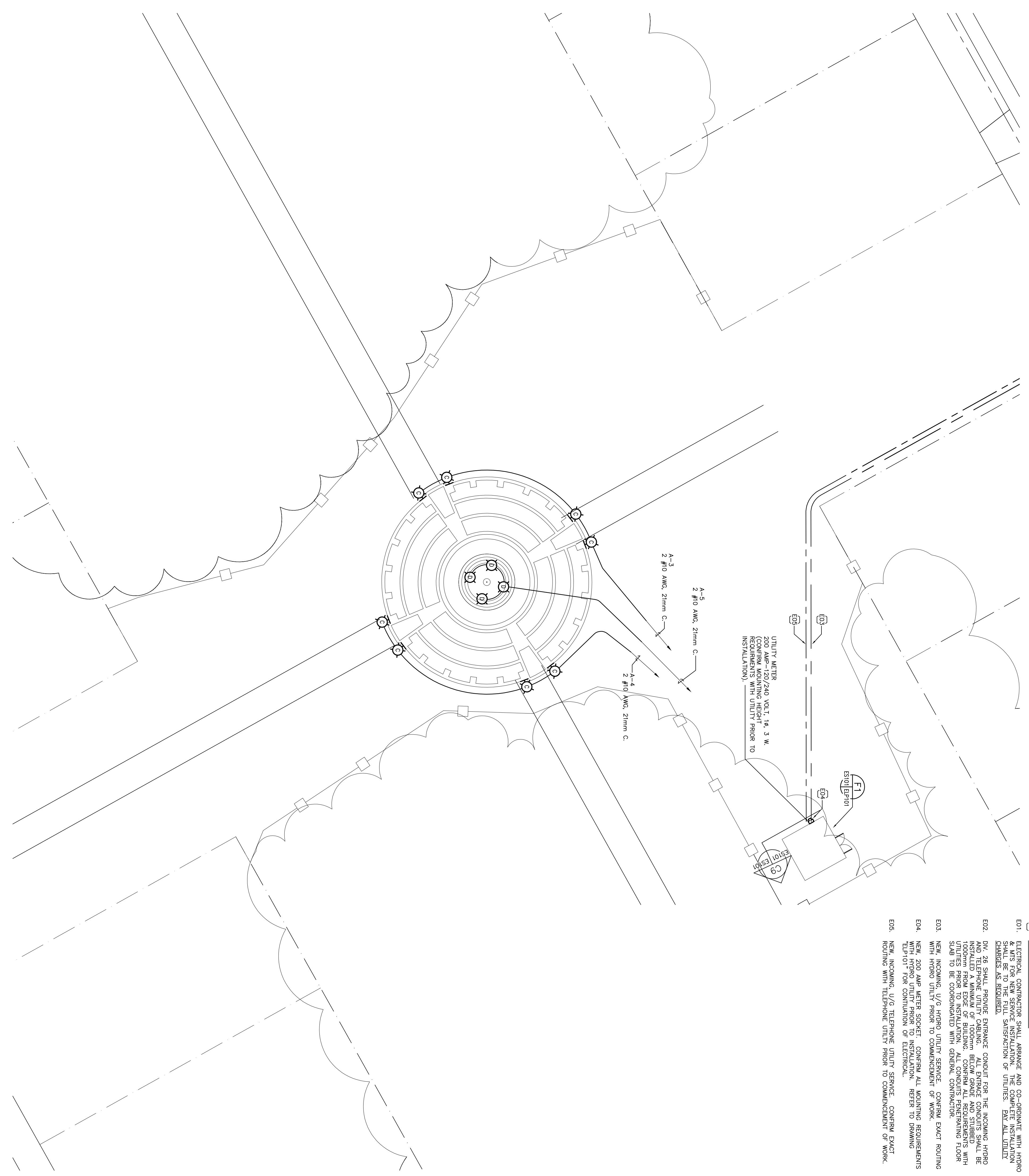
Architects
 Interior Designers
 Landscape Architects

Project Title
**MHRC-WAVERLEY WEST
 PHASE 1B**



SYMBOL	DESCRIPTION
BB	FLUORESCENT LUMINAIRE, SURFACE MOUNTED, TYPE "B"
A	POLLIGHT RECESSED OR SURFACE MOUNTED TYPE "A"
B	WALL MOUNTED LUMINAIRE TYPE "B"
\$ T	SINGLE POLE TOGGLE SWITCH TOGGLE LIT IN OFF POSITION F: PILOT LIT IN OFF POSITION K: KEY OPERATED 3: 3-WAY 4: 4-WAY
##	GANG MOUNTED TOGGLE SWITCHES
PG	PHOTO CELL
TC	TIME CLOCK
⊕ c	DUPLEX RECEPTACLE C: MID-ABOVE COUNTER M: MID, IN MILLWORK G: GROUND FAULT INTERRUPT P: PROTECTED PANEL I: ISOLATED GROUND W: WEATHERPROOF
⊙	JUNCTION BOX
□	PULL BOX
⬇	TELEPHONE OUTLET
⬇	MOTOR CONNECTION C/W DISCONNECT SWITCH
⬇	CONNECTION AND DISCONNECT SWITCH
⊙	MOTORIZED DAMPER
⊙	ELECTRIC FORGELOW HEATER
⊙	THERMOSTAT
⊙	120/208 VOLT ELECTRICAL POWER PANEL SURFACE OR RECESS MOUNTED AS INDICATED
TL	TWIST-LOCK
TP	TAMPER PROOF
WP	WEATHERPROOF

- ELECTRICAL KEYNOTES:**
- E01. ELECTRICAL CONTRACTOR SHALL ARRANGE AND CO-ORDINATE WITH HYDRO & MTS FOR NEW SERVICE INSTALLATION. THE COMPLETE INSTALLATION SHALL BE TO THE FULL SATISFACTION OF UTILITIES. EXH ALL UTILTY SERVICES AS SPECIFIED.
 - E02. DIV. 26 SHALL PROVIDE ENTRANCE CONDUIT FOR THE INCOMING HYDRO SERVICE. THE CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND SHALL BE INSTALLED A MINIMUM OF 1000mm BELOW GRADE AND STUBBED TO THE BUILDING PERIMETER. THE CONDUIT SHALL BE INSTALLED TO BE COORDINATED WITH GENERAL CONTRACTOR.
 - E03. NEW INCOMING 1/2" HYDRO UTILITY SERVICE. CONFORM EXACT ROUTING WITH HYDRO UTILITY FROM TO COMMENCEMENT OF WORK.
 - E04. NEW 200 AMP METER SOCKET. CONFORM ALL MOUNTING REQUIREMENTS WITH HYDRO UTILITY FROM TO COMMENCEMENT OF WORK.
 - E05. NEW INCOMING 1/2" TELEPHONE UTILITY SERVICE. CONFORM EXACT ROUTING WITH TELEPHONE UTILITY FROM TO COMMENCEMENT OF WORK.



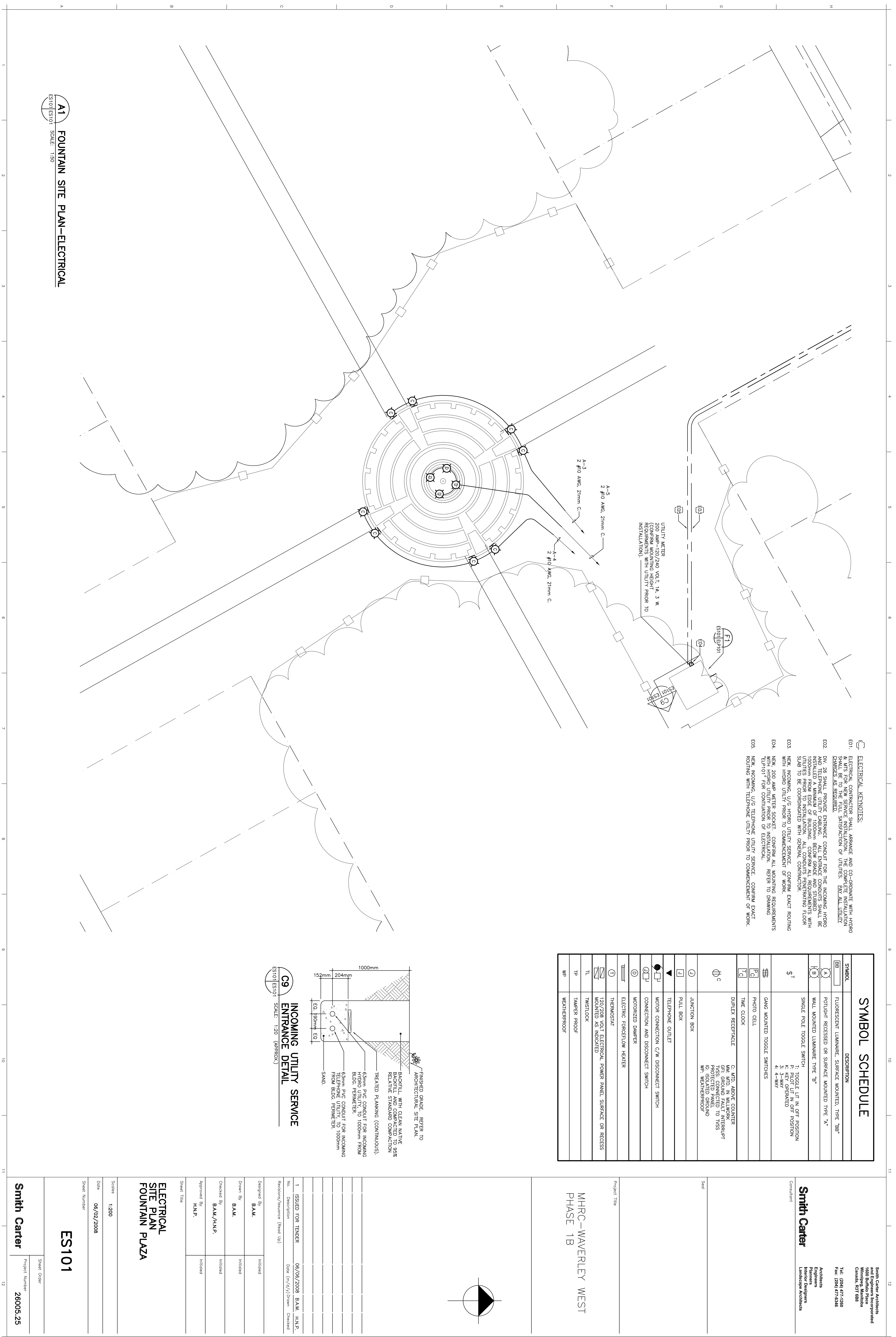
C9 INCOMING UTILITY SERVICE ENTRANCE DETAIL
 ES101|ES101 SCALE: 1:20 (APPROX)

**ELECTRICAL
 SITE PLAN
 FOUNTAIN PLAZA**

Scales 1:200
 Date 06/02/2008
 Sheet Number

ES101

Project Number 26005.25
Smith Carter

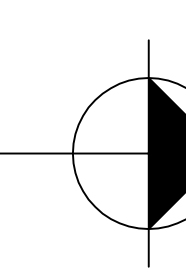


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Smith Carter

Project Title
**MHRC-WAVERLEY WEST
 PHASE 1B**



Designed By B.A.M.	Included
Drawn By B.A.M.	Included
Checked By B.A.M./H.N.P.	Included
Approved By H.N.P.	Included
Sheet Title ELECTRICAL PUMPHOUSE PLAN FOUNTAIN PLAZA	
Scales AS NOTED	
Date 06/02/2008	
Sheet Number ELP101	
Project Number 26005.25	

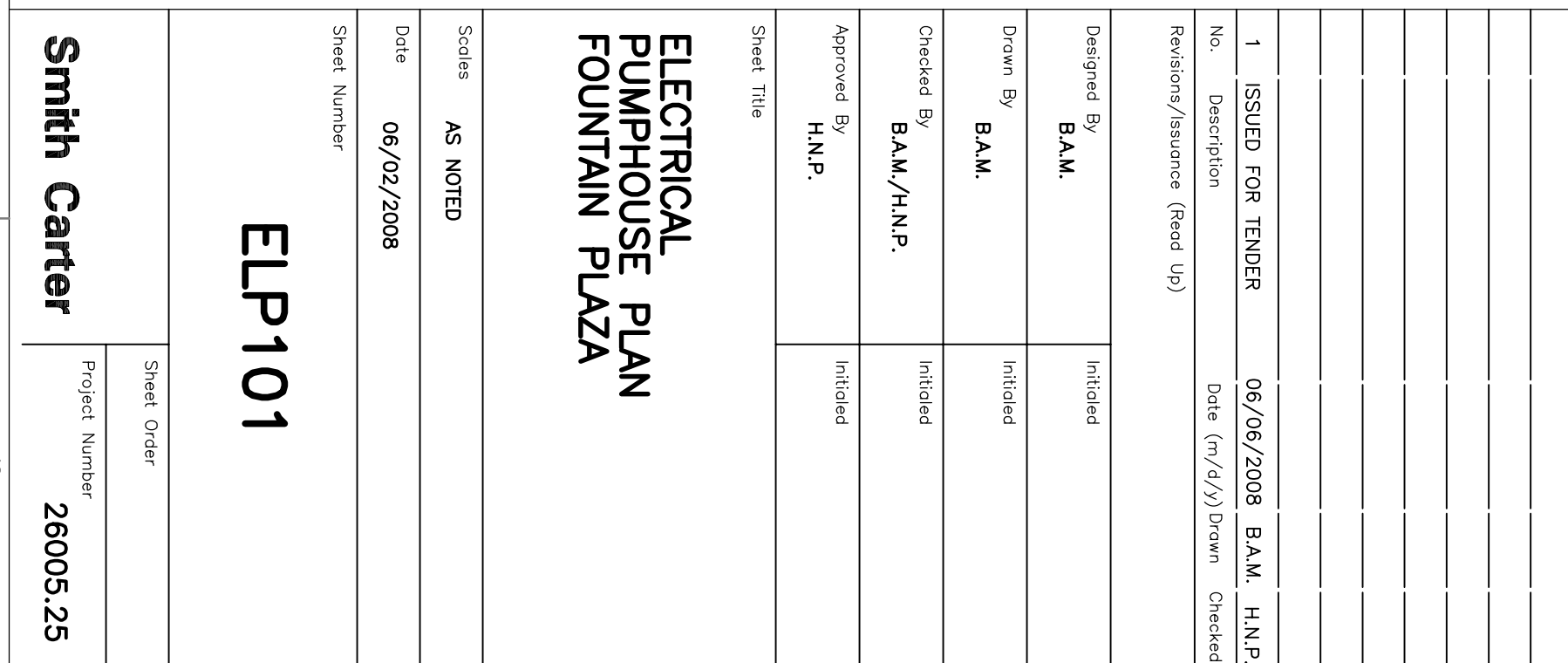
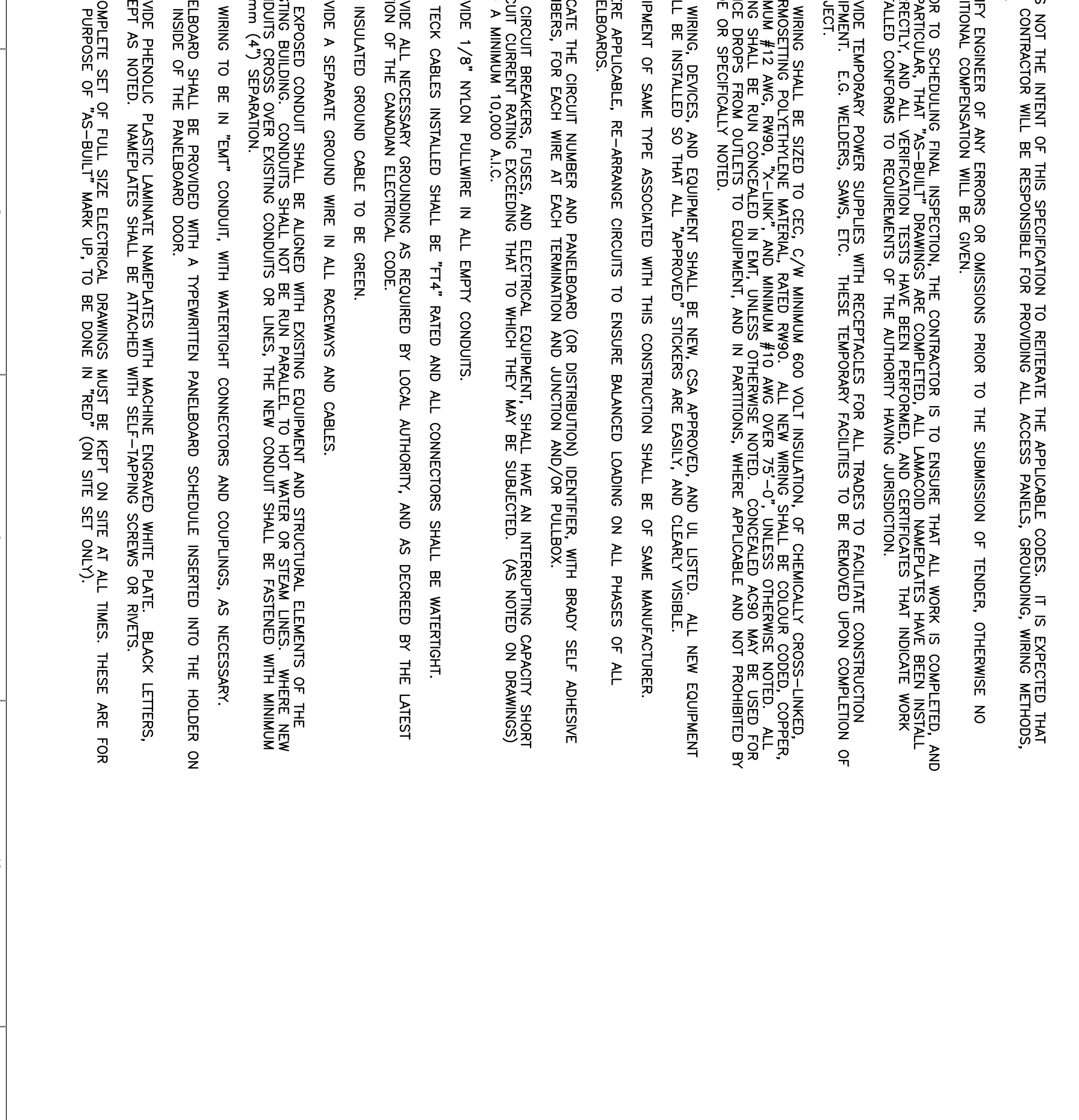
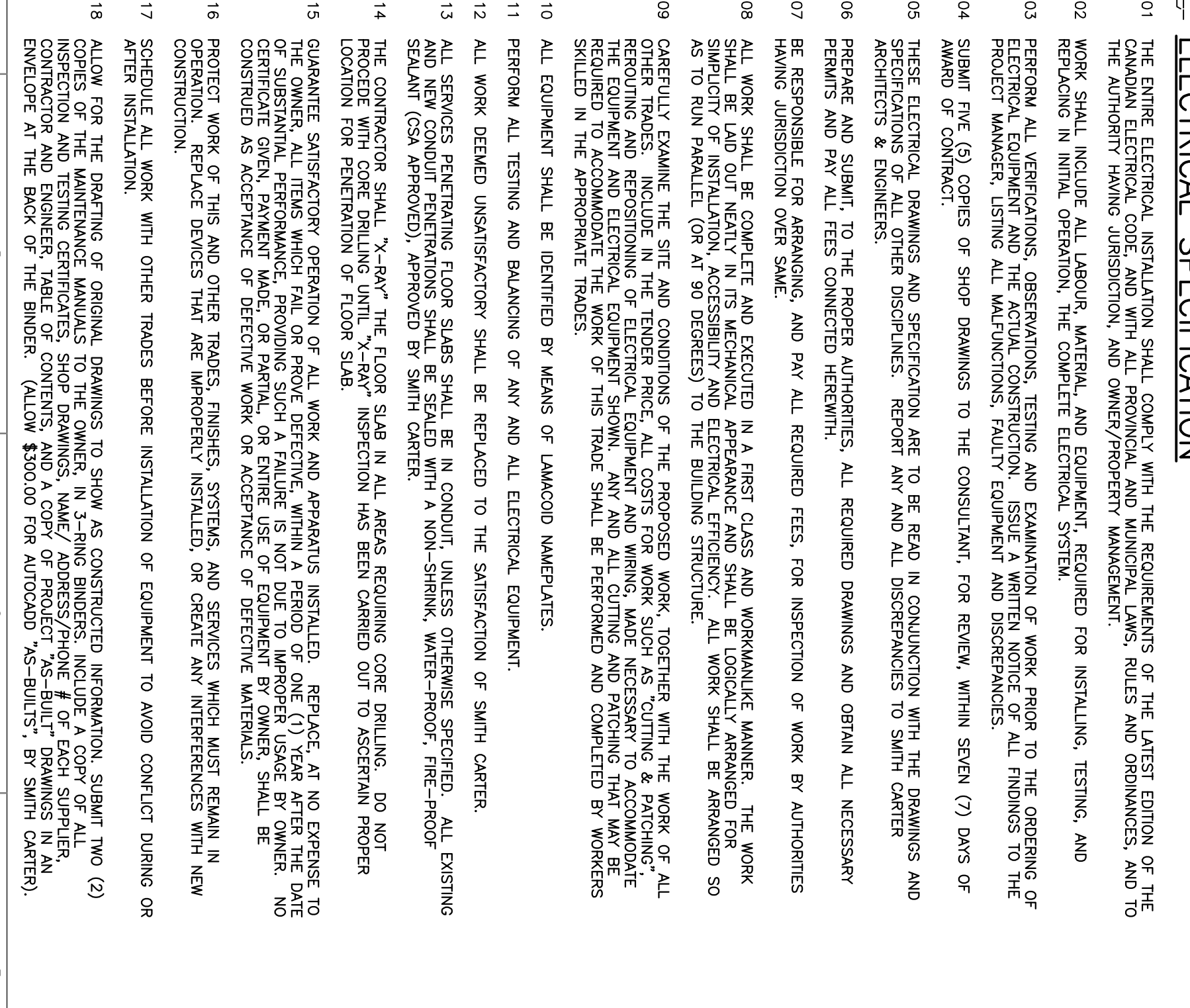
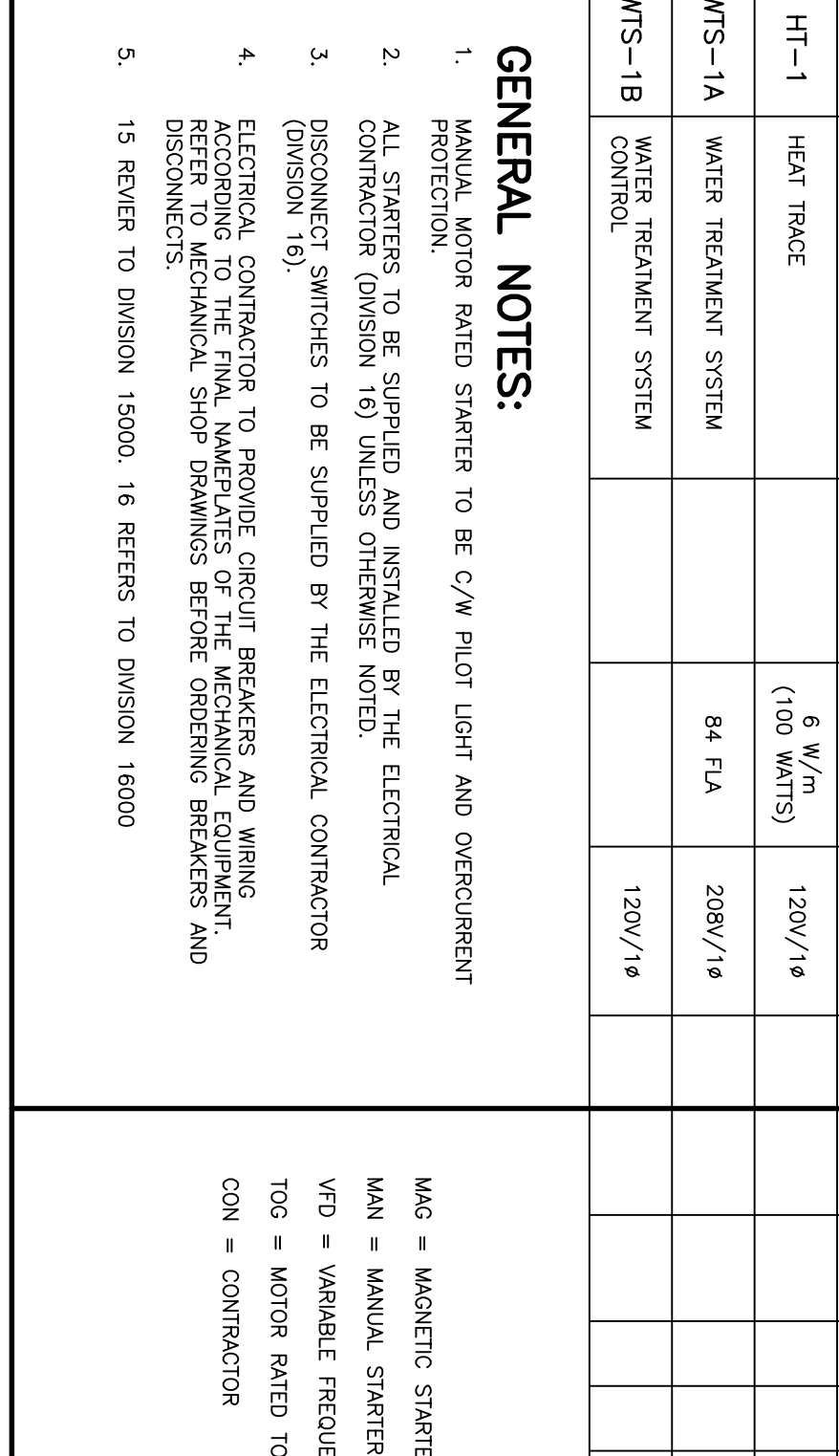
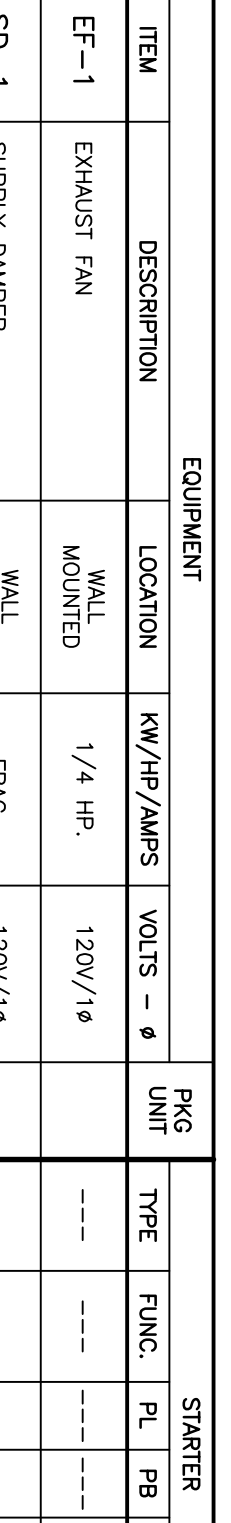
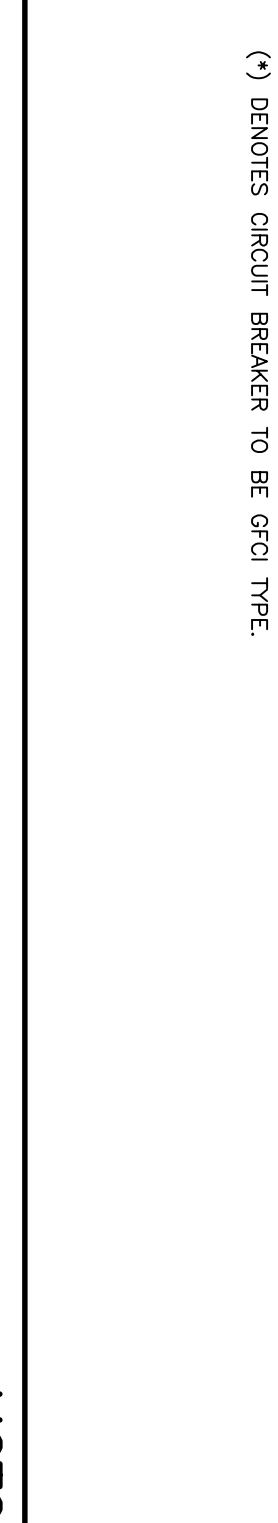
TYPE	MANUFACTURER	CATALOGUE NO.	LUMPS	MOUNTING	VOLTS	REMARKS
A	APPLETON	WFC2075G	1-280 WATT A13	CEILING MOUNTED	120V	
B	LITHONIA	TWC-70M-120-CS4-LP1	1-70 WATT E17 M.H.	EXTERIOR MOUNTED	120V	EXTERIOR WALL MOUNTED "MULTRAC" TYPE LUMINAIRE. CONFIRM MOUNTING HEIGHT WITH ARCHITECTURAL PRIOR TO COMMENCEMENT OF ROOF-IN.
C	SIEMENS	S5011-120V-14	1-35 WATT 14.5 M.H.	CEILING MOUNTED	120V	
D	HOBEL	4428-B-60-60-RUM-120-SP-FLC-BM-C850	60 WATTS FLOOR MOUNTED	FOUNTAIN MOUNTED	120V	C/W ONE (1) BRASS CRYSTAL FOUNTAIN PULLBOX, E84 SERIES C/W ALL APPLICABLE ACCESSORIES.

***POWER SMART* REBATE:** THE ELECTRICAL CONTRACTOR SHALL APPLY FOR ALL APPLICABLE "POWER SMART" REBATES ON BEHALF OF THE OWNER. ALL REBATES OBTAINED ARE TO BE MADE PAYABLE TO THE OWNER.

TYPE	MANUFACTURER	CATALOGUE NO.	FINISH	MOUNTING	WATTS	VOLTS/Ø	REMARKS
HTR-1	OUDELLET	04M10300-BL	WHITE	SURFACE	3000 WATTS	208V/1Ø	FORCE FLOW HEATER, C/W BLT.

NEW	DESIGNATION	WATTS	BREAKER (C)	TERMINAL (C)	TERMINAL (B)	WATTS	DESIGNATION
	INTERIOR LIGHTING (PUMPHOUSE)	800	15A-1	22	15A	200	EXTERIOR RECEPT (GFI BRKR)
	EXTERIOR LIGHTING (PUMPHOUSE)	100	15A-2	23	15A	400	INTERIOR RECEPT (GFI BRKR)
	EXTERIOR LIGHTING (FRESHSEL)	400	15A-3	24	15A	400	INTERIOR RECEPT (GFI BRKR)
	EXTERIOR LIGHTING (FRESHSEL)	400	15A-4	25	15A	200	EXHAUST FAN "EF-1"
	EXTERIOR LIGHTING (FOUNTAIN)	1200	15A-5	26	15A	100	SUPPLY DAMPER "SD-1"
	SPACE		6	27	15A	100	HEAT TRACE "HT-1"
	SPACE		7	28			SPACE
	SPACE		8	29			SPACE
	SPACE		9	30			SPACE
	SPACE		10	31			SPACE
	SPACE		11	32			SPACE
	SPACE		12	33			SPACE
	SPACE		13	34	90A	5200	WTR. TREATMENT SYSTEM "WTS-1A"
	SPACE		14	35	2P	5200	WTR. TREATMENT SYSTEM "WTS-1B"
	SPACE		15	36	15A	200	SPACE
	SPACE		16	37			SPACE
	SPACE		17	38			SPACE
	SPACE		18	39			SPACE
	SPACE		19	40			SPACE
	SPACE		20	41			SPACE
	SPACE		21	42			SPACE

POWER: 200A, 120/208 VOLTS, 3Ø, 4 WIRE.
 MOUNTING: SURFACE
 (*) DENOTES CIRCUIT BREAKER TO BE GFCI TYPE.



ITEM	DESCRIPTION	LOCATION	KW/HP/AMPS	VOLTS - Ø	PAGE	TYPE	FL	FB	HOA	SHUNT	STARTER	CONTROLS	F.A. SHUT DOWN	REMARKS	SEE NOTES BELOW
EF-1	EXHAUST FAN	WALL MOUNTED	1/4 HP	120V/1Ø	---	---	---	---	---	---	---	ELEC.			
SD-1	SUPPLY DAMPER	WALL MOUNTED	FRAC.	120V/1Ø	---	---	---	---	---	---	---	ELEC.			
HT-1	HEAT TRACE	6 W/m (100 WATTS)	84 FLA	208V/1Ø	---	---	---	---	---	---	---	ELEC.			
WTS-1A	WATER TREATMENT SYSTEM			120V/1Ø	---	---	---	---	---	---	---	ELEC.			
WTS-1B	WATER TREATMENT SYSTEM			120V/1Ø	---	---	---	---	---	---	---	ELEC.			

GENERAL NOTES:

- MANUAL MOTOR RATED STARTER TO BE C/W PILOT LIGHT AND OVERCURRENT PROTECTION.
- ALL STARTERS TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR (DIVISION 16) UNLESS OTHERWISE NOTED.
- DISCONNECT SWITCHES TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR (DIVISION 16).
- ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL MANIPULATES OF THE MECHANICAL EQUIPMENT. REFER TO MECHANICAL SHOP DRAWINGS BEFORE ORDERING BREAKERS AND DISCONNECTS.
- 15 REFER TO DIVISION 15000. 16 REFERS TO DIVISION 16000.

ABBREVIATIONS:
 MNG = MAGNETIC STARTER
 MAN = MANUAL STARTER
 VFD = VARIABLE FREQUENCY DRIVE
 TGD = MOTOR RATED TOGGLE SWITCH
 CON = CONTRACTOR

NOTES:

- PROVIDE MANUAL MOTOR STARTER WITH PILOT LIGHT AND O/C DEVICE.
- DIVISION 16 SHALL PROVIDE INTERLOCK WIRING.

LEGEND:
 T = THERMOSTAT
 H = HUMIDISTAT
 C = CONTACTOR
 DOC = DIRECTOR CONTROL SYSTEM
 TC = TIME CLOCK
 M/T = MANUAL TIMER
 W/T = WIRELESS TRANSMITTER
 ESC = ELECTRONIC SPEED CONTROLLER
 H.S. = HIGH LIMIT SWITCH
 A.S. = AIR PROXIMITY SWITCH

SYMBOLS:
 S = FIRE ALARM SHUTDOWN C/W H.Q.A. AT FIRE ALARM PANEL
 D = DETECTOR AND SHUTDOWN ON SEPARATE ZONE
 Z = SEPARATE DETECTION ZONE

ELECTRICAL SPECIFICATION

SP01 THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND WITH ALL PROVISIONAL AND AMENDMENT LAWS, RULES AND ORDINANCES, AND TO THE AUTHORITY HAVING JURISDICTION, AND OWNER/PROPERTY MANAGEMENT.

SP02 WORK SHALL INCLUDE ALL LABOUR, MATERIAL, AND EQUIPMENT, REQUIRED FOR INSTALLING, TESTING, AND REPLACING IN INITIAL OPERATION, THE COMPLETE ELECTRICAL SYSTEM.

SP03 PERFORM ALL VERIFICATIONS, OBSERVATIONS, TESTING AND EXAMINATION OF WORK PRIOR TO THE OPENING OF ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER, LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.

SP04 SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS TO THE CONSULTANT, FOR REVIEW, WITHIN SEVEN (7) DAYS OF AWARD OF CONTRACT.

SP05 THESE ELECTRICAL DRAWINGS AND SPECIFICATION ARE TO BE READ IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES. REPORT ANY AND ALL DISCREPANCIES TO SMITH CARTER ARCHITECTS & ENGINEERS.

SP06 PREPARE AND SUBMIT, TO THE PROPER AUTHORITIES, ALL REQUIRED DRAWINGS AND OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES CONNECTED HEREWITH.

SP07 BE RESPONSIBLE FOR ARRANGING, AND PAY ALL REQUIRED FEES, FOR INSPECTION OF WORK BY AUTHORITIES HAVING JURISDICTION OVER SAME.

SP08 ALL WORK SHALL BE COMPLETE AND EXECUTED IN A FIRST CLASS AND WORKMANLIKE MANNER. THE WORK SHALL BE Laid OUT NEATLY IN ITS MECHANICAL APPEARANCE AND SHALL BE LOGICALLY ARRANGED FOR SIMPLICITY OF INSTALLATION, ACCESSIBILITY AND ELECTRICAL EFFICIENCY. ALL WORK SHALL BE ARRANGED SO AS TO RUN PARALLEL (OR AT 90 DEGREES) TO THE BUILDING STRUCTURE.

SP09 GENERALLY EXAMINE THE SITE AND CONDITIONS OF THE PROPOSED WORK, TOGETHER WITH THE WORK OF ALL OTHER TRADES, AND ADVISE THE CONSULTANT OF ANY DISCREPANCIES, OMISSIONS, OR CONFLICTS THAT MAY BE ENCOUNTERED TO ACCOMMODATE THE ELECTRICAL EQUIPMENT AND WIRING. MAKE NECESSARY TO ACCOMMODATE THE EQUIPMENT AND ELECTRICAL EQUIPMENT SHOWN, ANY AND ALL CUTTING AND PATCHING THAT MAY BE REQUIRED TO ACCOMMODATE THE WORK OF THIS TRADE SHALL BE PERFORMED AND COMPLETED BY WORKERS SHOWN IN THE APPROPRIATE TRADES.

SP10 ALL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF LAMKOID NAMEPLATES.

SP11 PERFORM ALL TESTING AND BALANCING OF ANY AND ALL ELECTRICAL EQUIPMENT.

SP12 ALL WORK DEEMED UNSATISFACTORY SHALL BE REPLACED TO THE SATISFACTION OF SMITH CARTER.

SP13 ALL SERVICES PENETRATING FLOOR SLABS SHALL BE IN CONDUIT, UNLESS OTHERWISE SPECIFIED. ALL EXISTING AND NEW CONDUIT PENETRATIONS SHALL BE SEALED WITH A NON-SHINK, WATER-PROOF, "THE-PROOF" SEALANT (ASA APPROVED), APPROVED BY SMITH CARTER.

SP14 THE CONTRACTOR SHALL "X-RAY" THE FLOOR SLABS IN ALL AREAS REQUIRING CORE DRILLING. DO NOT DRILL THROUGH ANY REINFORCING BARS OR OTHER STRUCTURAL ELEMENTS. INSPECTION HAS BEEN CARRIED OUT TO DETERMINE THE LOCATION FOR PENETRATION OF FLOOR SLAB.

SP15 GUARANTEE SATISFACTORY OPERATION OF ALL WORK AND APPEARING INSTALLED, SERVICE, AT NO EXPENSE TO THE OWNER, ALL ITEMS WHICH FAIL OR PROVE DEFECTIVE, WITHIN A PERIOD OF ONE (1) YEAR AFTER THE DATE OF SUBSTANTIAL PERFORMANCE, PROVIDING SUCH A FAILURE IS NOT DUE TO IMPROPER USAGE BY OWNER. NO CONTRACTOR SHALL BE RESPONSIBLE FOR DEFECTIVE WORK OR DEFECTIVE MATERIALS.

SP16 PROTECT WORK OF THIS AND OTHER TRADES, FINISHERS, SYSTEMS, AND SERVICES WHICH MUST REMAIN IN PLACE DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL WORK IN CONSTRUCTION.

SP17 SCHEDULE ALL WORK WITH OTHER TRADES BEFORE INSTALLATION OF EQUIPMENT TO AVOID CONFLICT DURING OR AFTER INSTALLATION.

SP18 ALLOW FOR THE GRABBING OF ORIGINAL DRAWINGS TO SHOW AS CONSTRUCTED INFORMATION, SUBMIT TWO (2) COPIES OF THE MATERIALS OF FINISH, TO THE ARCHITECT, AND ONE COPY OF PROJECT AS-BUILT DRAWINGS IN AN INSPECTION AND TESTING CERTIFICATE, SHOP DRAWINGS, NAME/ ADDRESS/PHONE # OF EACH SUPPLIER, CONTRACTOR, AND ENGINEER, TABLE OF CONTENTS, AND A COPY OF PROJECT AS-BUILT DRAWINGS IN AN ENVELOPE AT THE BACK OF THE BINDER. (ALSO \$300.00 FOR AUTOCAD AS-BUILDS, BY SMITH CARTER).

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Smith Carter
 Architects
 Project Managers
 Landscape Architects

- GENERAL NOTES:**
- DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 - VERIFY DIMENSIONS IN A SITE PRIOR TO CONSTRUCTION. REPORT OCCURRENCES WITH CONSULTANT BEFORE WORK. LAYOUT MUST BE APPROVED BY THE CONSULTANT.
 - PIPING SHALL BE 8040 PVC PIPE UNLESS OTHERWISE SPECIFIED. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE MECHANICAL SPECIFICATIONS.

- MECHANICAL SITE KEYNOTES:**
- CONNECT NEW DISCHARGE PIPE TO D AND DISCHARGE TO STREET IN ACCORDANCE WITH CITY OF WINNIPEG CONSTRUCTION STANDARDS.

APEGIN
 Certificate of Authorization
 Smith Carter Architects and Engineers Inc.
 No. 171 Date: 06/06/2008

S.S.W.
 D. SCHULZ
 MEMBER 10076
 06/06/2008
 REGISTERED PROFESSIONAL ENGINEER

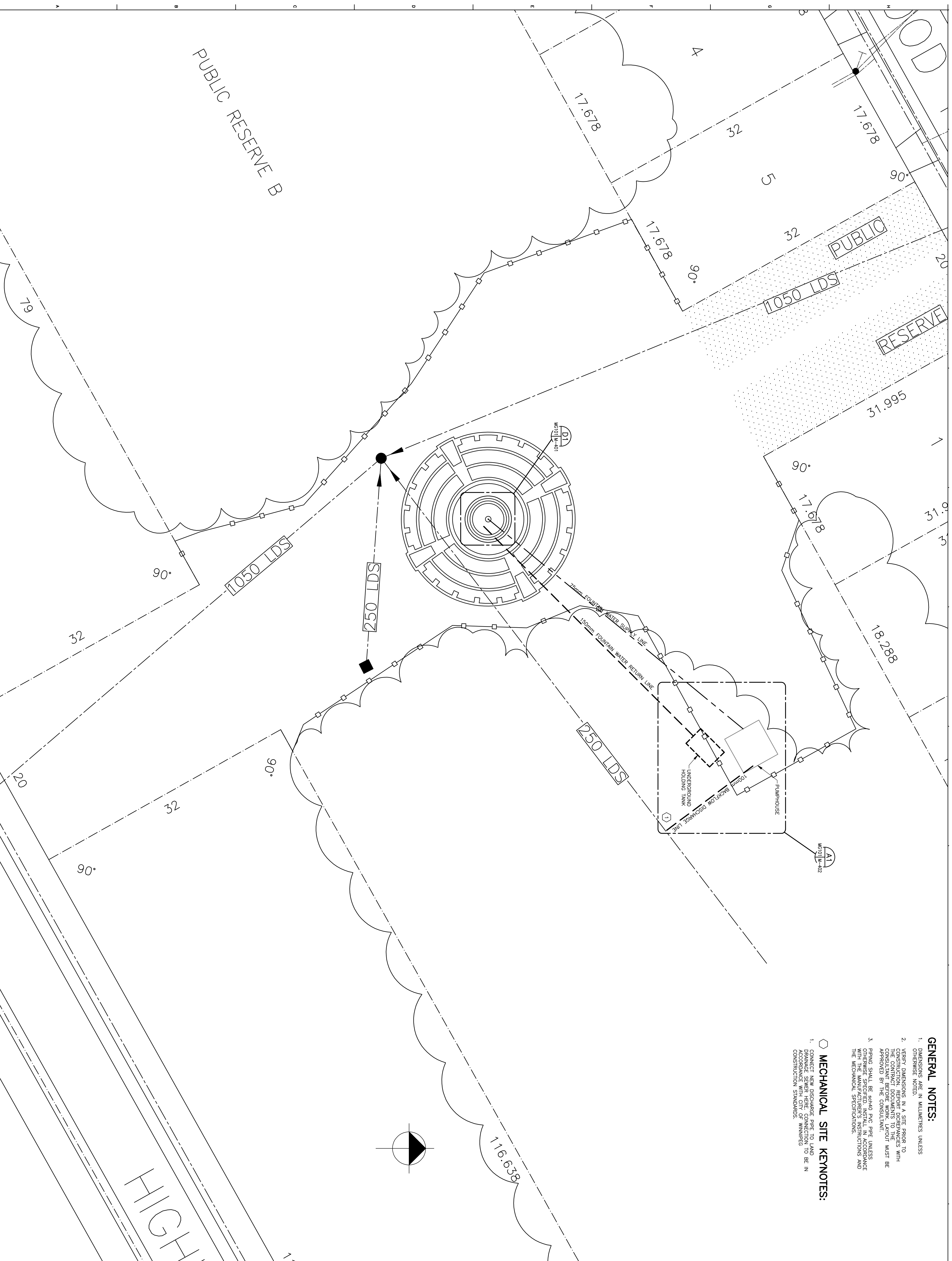
Project Title
 MHRG-WAVERLEY WEST
 PHASE 1B

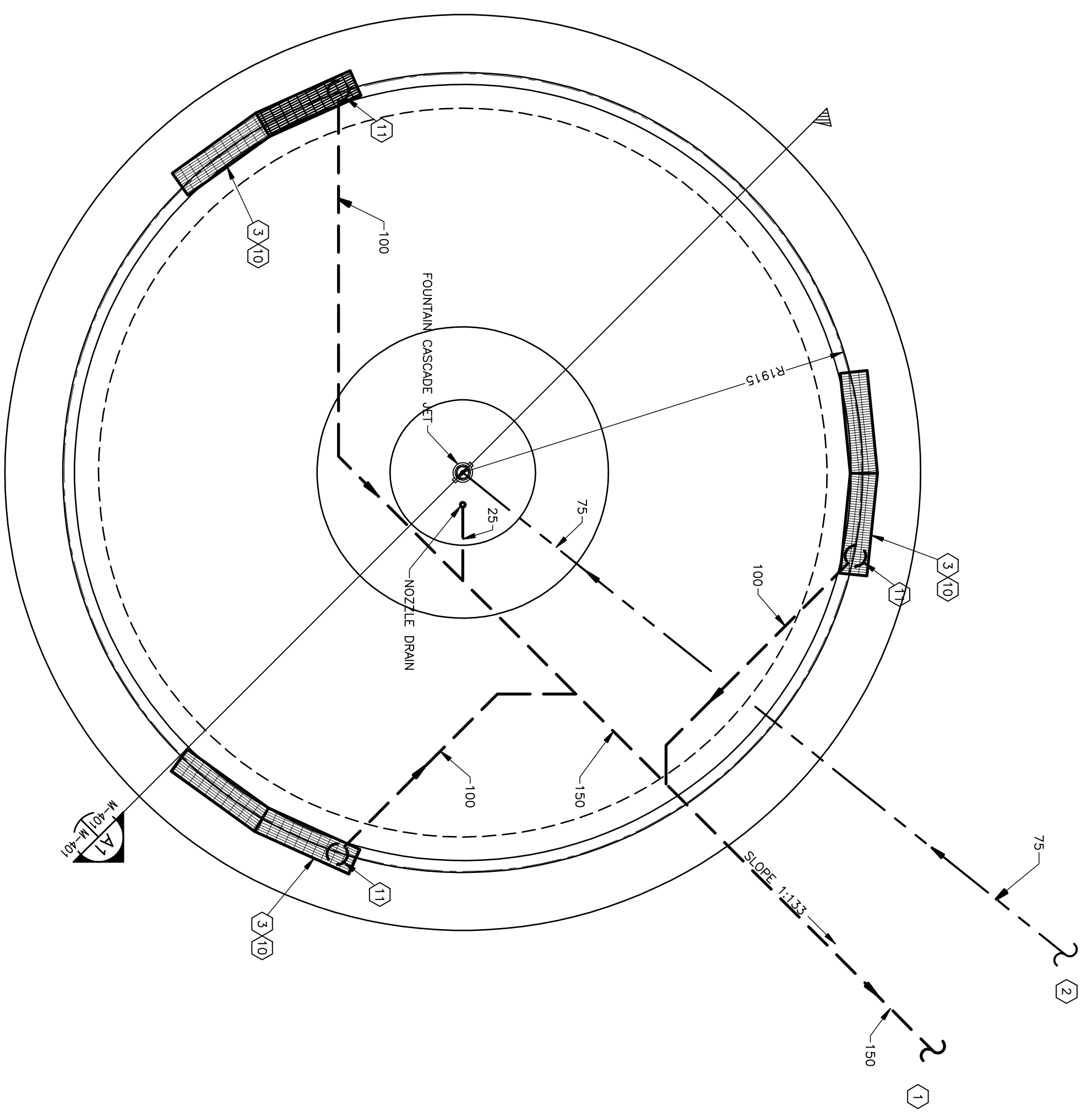
Designed By	JD	Initialed
Drawn By	JD	Initialed
Checked By	SD	Initialed
Approved By	SD	Initialed
Revision/Issuance (read up)		
1 ISSUED FOR TENDER	06/06/2008 JD SD	
No. Description	Date (m/d/y) Drawn	Checked

Sheet Title
**FOUNTAIN PLAZA
 MECHANICAL SITE PLAN**

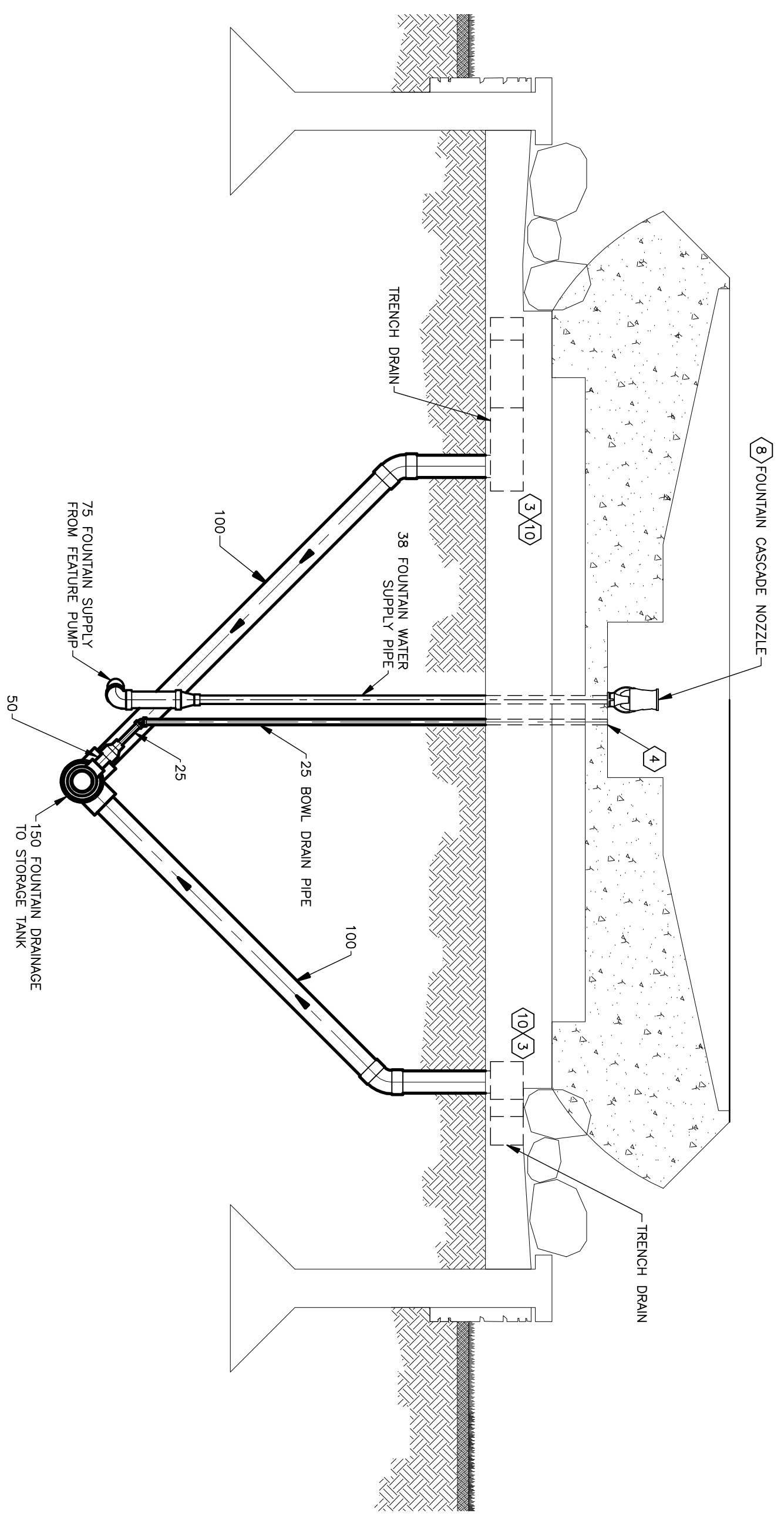
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 Date 03/18/2008
 Sheet Number
MG101

Sheet Order 1 of 3
 Project Number 26005.25
Smith Carter

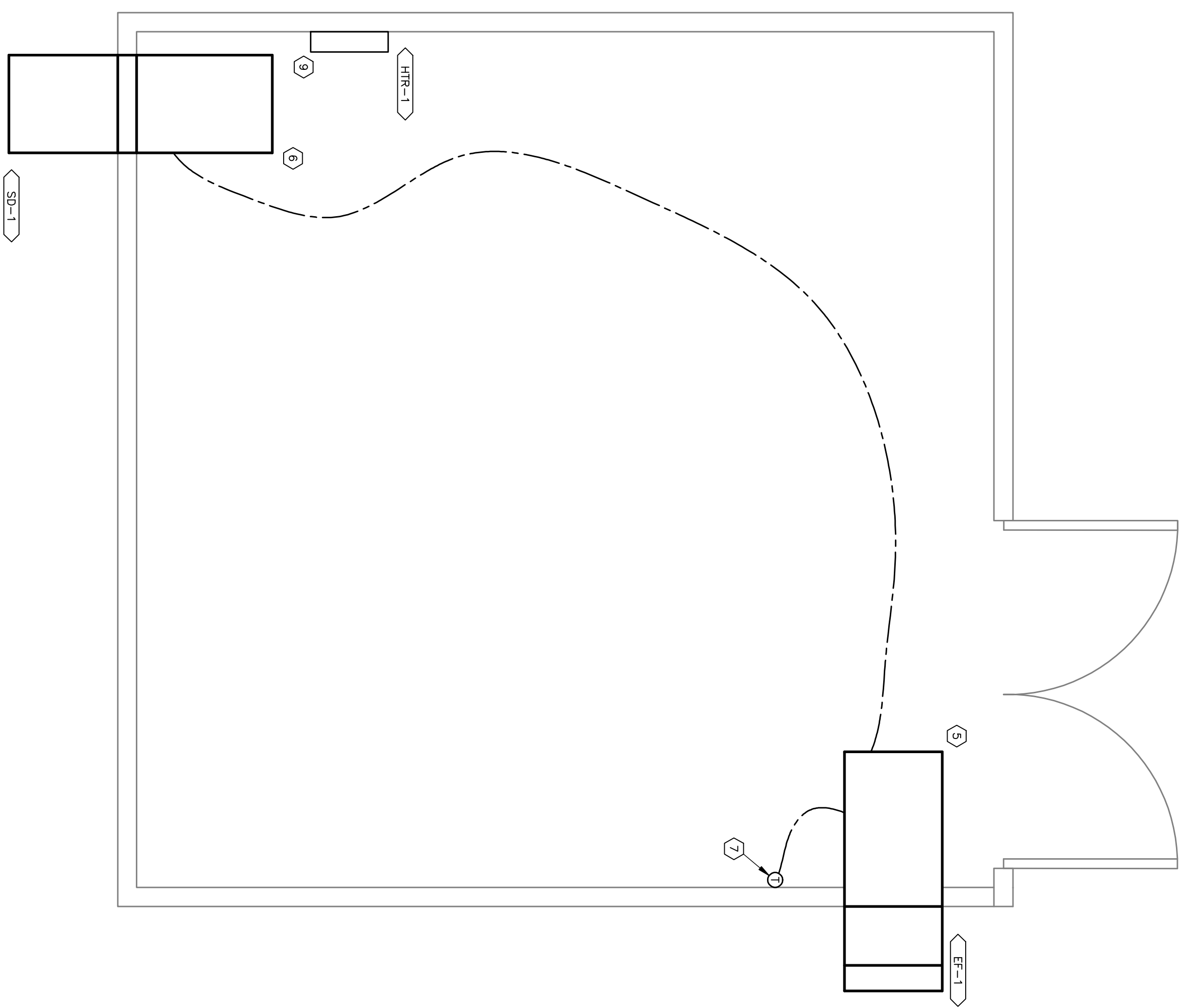




D1 FOUNTAIN PLUMBING PLAN
M-401/M-401 1:20



A1 FOUNTAIN SECTION
M-401/M-401 1:20



B6 PUMPHOUSE HVAC PLAN
M-401 1:20

MECHANICAL KEYNOTES:

1. DRAINAGE PIPE TO UNDERGROUND STORAGE TOWARDS TANK BE SLOPED 1/3% (1:133)
2. FOUNTAIN WATER SUPPLY FROM FEATURE PUMP.
3. INSTALL TRENCH DRAINS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE A CAP WITH A 19mm HOLE FOR THE STAINLESS STEEL WEDGE INSIDE OF CAP WITH EXHAUST FAN SHALL BE INSTALLED 250mm FROM CEILING AND ASSURED TO THE TOP OF FAN WALL HOUSING.
6. SUPPLY DAMPER SHALL BE INSTALLED AT THE SAME ELEVATION AS EF-1.
7. EF-1 OPERATION SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT. EF-1 AND SD-1 SHALL BE ELECTRICALLY INTERLOCKED SO THAT BOTH DAMPERS OPEN SAME TIME. DAMPERS WITH BOTH DAMPERS OPEN SHALL INTERLOCK WITH EF-1 SHUTDOWN.
8. INSTALL FOUNTAIN CASCADE JET IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE A PVC SLEEVE THE FOUNTAIN SUPPLY PIPE PENETRATES SEAM SLEEVE AGAINST WATER LEAKAGE USING A LEAKABLE WATERPROOF SEALANT TO ACCOMMODATE FOUNTAIN BOWL MOVEMENT. STANDARD OF ACCEPTANCE: PEM 53A CAST BRONZE CASCADE JET.
9. MOUNT HR-1 915mm ABOVE FINISHED FLOOR. REFER TO ELECTRICAL FOR HEATER SPECIFICATION.
10. EACH TRENCH DRAIN SEGMENT SHALL CONSIST OF TWO 500mm SECTIONS CUT TO LENGTH TO FIT. TRENCH DRAIN SEGMENTS SHALL HAVE STAINLESS STEEL BAR GRATING WITH AN INAKE AREA OF 306.5cm² (0.5m²) AND A CLASS A LOAD RATING PER DIN 19360. STANDARD OF ACCEPTANCE: ACO DRAIN K1005 W/TYE 446 STAINLESS STEEL GRATE.
11. 100mm VERTICAL DISCHARGE. DISCHARGE SHALL BE PROTECTED BY A VERTICAL OUTLET SHOWER.

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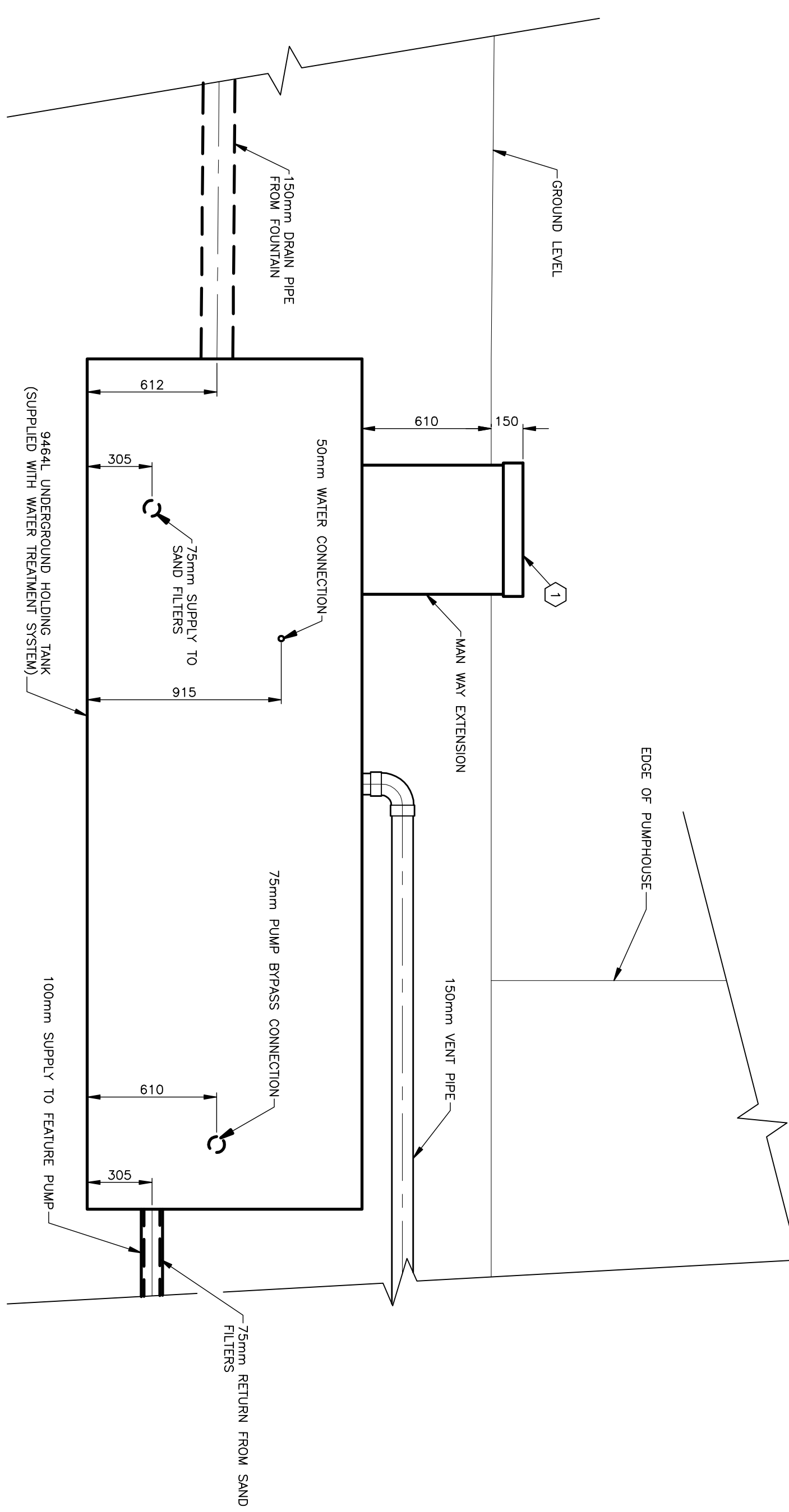
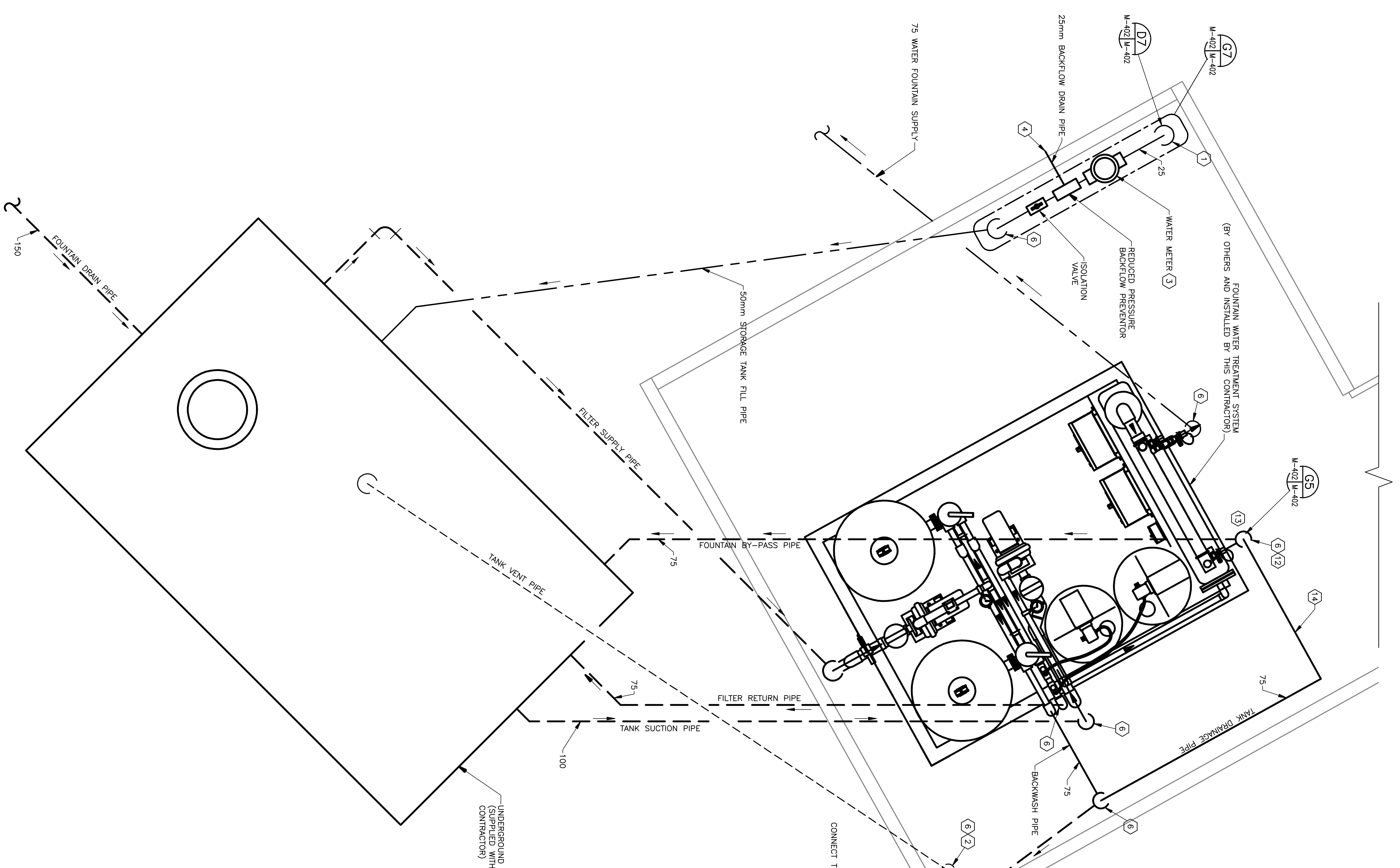
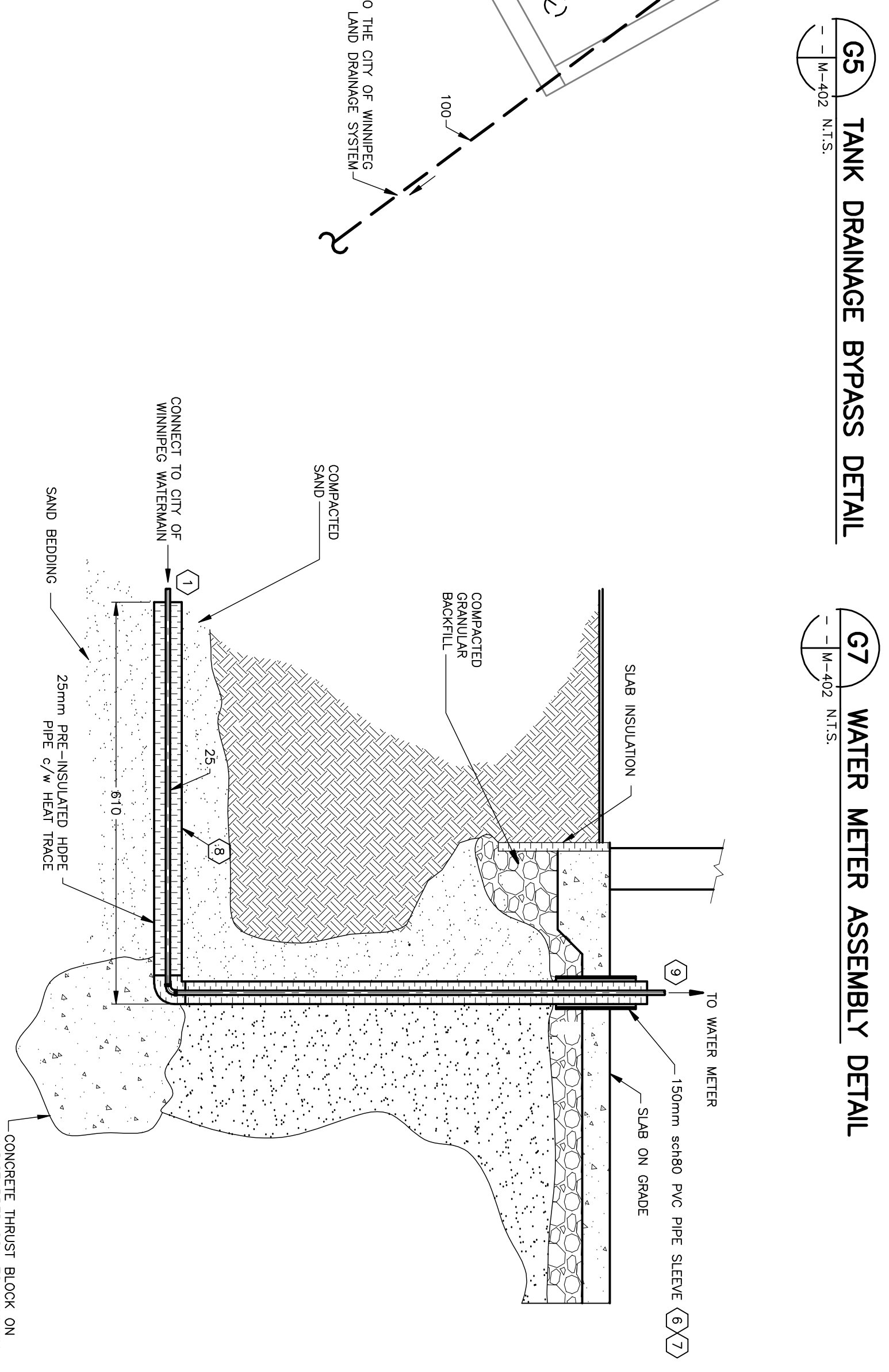
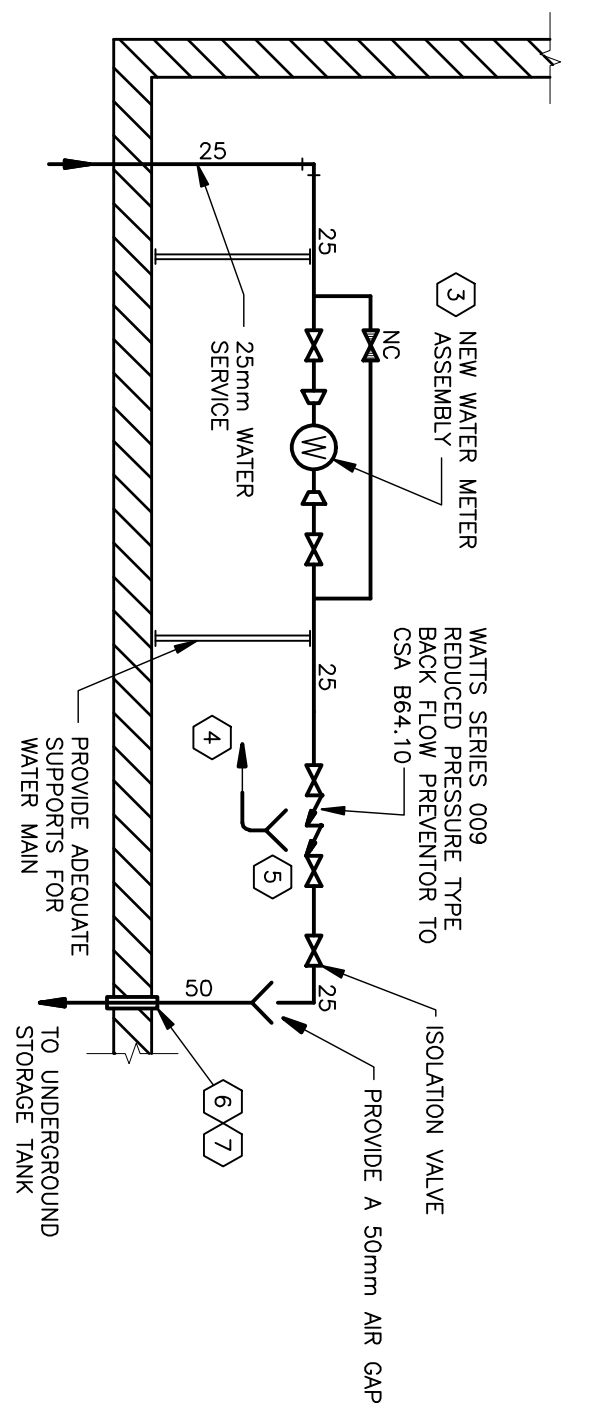
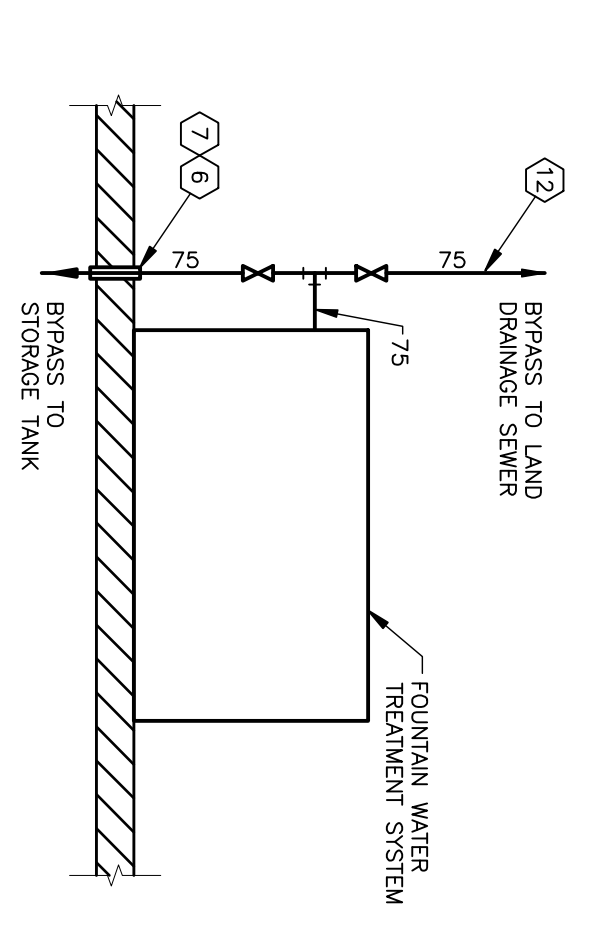
APGIN
Certificate of Authorization
Smith Carter Architects and Engineers Inc.
No. 171 Date: 06/06/2008

PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
S. R. W. DUCHAIN
MEMBER 10076
06/06/2008

Project Title
**MHRC-WAVERLEY WEST
PHASE 1B**

Designed By	JD/SD	Included
Drawn By	JD	Included
Checked By	SD	Included
Approved By	SD	Included
Sheet Title	FOUNTAIN PLAZA BOWL PLUMBING PLAN PUMPHOUSE HVAC PLAN	
Scales	AS SHOWN	
Date	04/14/2008	
Sheet Number	M-401	
Project Number	26005.25	
Sheet Order	2 of 3	

Project Number
26005.25



- GENERAL NOTES:**
- DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 - VERIFY DIMENSIONS IN A SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO THE ARCHITECT. CORRECTIONS MUST BE APPROVED BY THE CONSULTANT.
 - ALL PIPING TO BE 304/316 PIPING UNLESS OTHERWISE NOTED. ALL CONNECTIONS WITH THE MANUFACTURER'S INSTRUCTIONS AND THE MECHANICAL SPECIFICATIONS.
 - CONTRACTOR SHALL TAG ALL PIPING TO INDICATE FUNCTION AND DIRECTION OF FLOW.

MECHANICAL KEYNOTES:

- REFER TO CIVIL DRAWINGS FOR WATER SERVICE CONNECTION INFORMATION BETWEEN BUILDING AND CITY OF WINNIPEG WATERMAIN.
- VENT PIPE SHALL EXTEND THROUGH ROOF AS A VENT TERMINAL. THE TERMINAL SHALL BE INSTALLED IN ACCORDANCE WITH NRCO 2005.
- WATER METER SHALL BE IN ACCORDANCE WITH CITY OF WINNIPEG STANDARDS.
- STANDARD OF ACCEPTANCE: NEPTUNE OR OTHER APPROVED BY CITY OF WINNIPEG.
- ROUTE BACKFLOW PREVENTOR DISCHARGE OUT THROUGH THE BUILDING SIDEWALL. DISCHARGE LOCATED 50mm ABOVE FINISHED FLOOR. THE OUTLET SHALL BE PROTECTED BY A PERFORATED PVC CAP WITH STAINLESS STEEL MESH.
- BACKFLOW PREVENTOR SHALL BE ORDERED WITH AN AIR GAP FITTING.
- PIPE PENETRATION THROUGH THE FLOOR SHALL BE MINIMUM ONE PIPE SIZE LARGER THAN PIPE BEING SERVED. PIPE SLEEVE SHALL EXTEND 50mm ABOVE AND BELOW THE FLOOR SLAB.
- SEAL PIPE PENETRATION AGAINST WATER AND INSPECT ENTRANCE USING A FLEXIBLE SEALANT TO ACCOMMODATE FLOOR SLAB MOVEMENT.
- WATER SERVICE PIPE SHALL BE 25mm URETHANE FOAM AND PEACKET PIPE SHALL BE EQUIPPED WITH A HEAT TRACE HAVING AN OUTPUT OF 10W/m. THE TRACE WIRE SHALL BE LOCATED ON THE INSULATION. TRACE SHALL BE CONTROLLED BY AN ELECTRIC THERMOSTAT. THERMOSTAT SHALL BE SET TO 5°C.
- STANDARD OF ACCEPTANCE: URECON ULIP, * / POWER FEED KIT, AND URECON UIC-2030 THERMOSTAT.
- CONTINUE INSULATION AND HEAT TRACE TO WATER METER.
- PROVIDE A LOCKING TAPER-PROOF LID FOR THE STORAGE TANK.
- STORAGE TANK SHALL BE INSTALLED A MAXIMUM OF 600mm IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL PIPE CONNECTIONS TO THE TANK SHALL BE FLANGES.
- EXTEND PIPE TO THE UNDERSIDE OF THE CEILING.
- TANK DISCHARGE BYPASS FOR END OF SEASON VALVE TO THE LAND DRAINAGE SEWER SHALL BE CLOSED AND BYPASS WILL BE DISCHARGE TO THE STORAGE TANK. AT THE END OF SEASON ALLOW THE STORAGE TANK TO EMPTY TO THE LAND DRAINAGE SEWER.
- RUN PIPE ALONG CEILING.
- COORDINATE INSULATION AND COMPENSATING OF WATER TREATMENT SYSTEM AND TANK WITH SUPPLIER. REVIEW PROPOSED INSTALLATION PRIOR TO START OF WORK.



Project Title
MHRC-WAVERLEY WEST
PHASE 1B

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Designed By	JD/SD	Included
Drawn By	JD	Included
Checked By	SD	Included
Approved By	SD	Included
Sheet Title	FOUNTAIN PLAZA PUMPHOUSE PLUMBING PLAN	
Scales	AS SHOWN	
Date	04/14/2008	
Sheet Number	M-402	
Project Number	26005.25	