

LEGEND:

---	EXISTING SINGLE PHASE SERVICE	---	OH TELEPHONE
---	EXISTING THREE PHASE SERVICE	---	OH POWER & TELEPHONE
---	EXISTING THREE PHASE PRIMARY	---	WATER
---	NEW SINGLE PHASE SECONDARY	---	SANITARY SEWER
---	NEW THREE PHASE SECONDARY	---	STORM DRAIN
---	NEW TWO PHASE PRIMARY	---	GAS
---	NEW CONDUIT	---	UG TELEPHONE
---	ELECTRIC METER	---	CATCH BASIN
---	DECORATIVE LIGHT	---	MANHOLE
---	OH POWER	---	FIRE HYDRANT
---		---	POWER POLE
---		---	DOCKS

NOTES:
 1. SEE DOWNTOWN GEORGETOWN REVITALIZATION PROJECT, PLAN - FRONT STREET ELECTRICAL DRAWINGS 1-10.

MATCH LINE - SEE SHEET E003-2



CITY OF GEORGETOWN
 GEORGETOWN, SC

FRONT STREET ELECTRICAL UPGRADE
 ELECTRICAL PLAN
 NEW

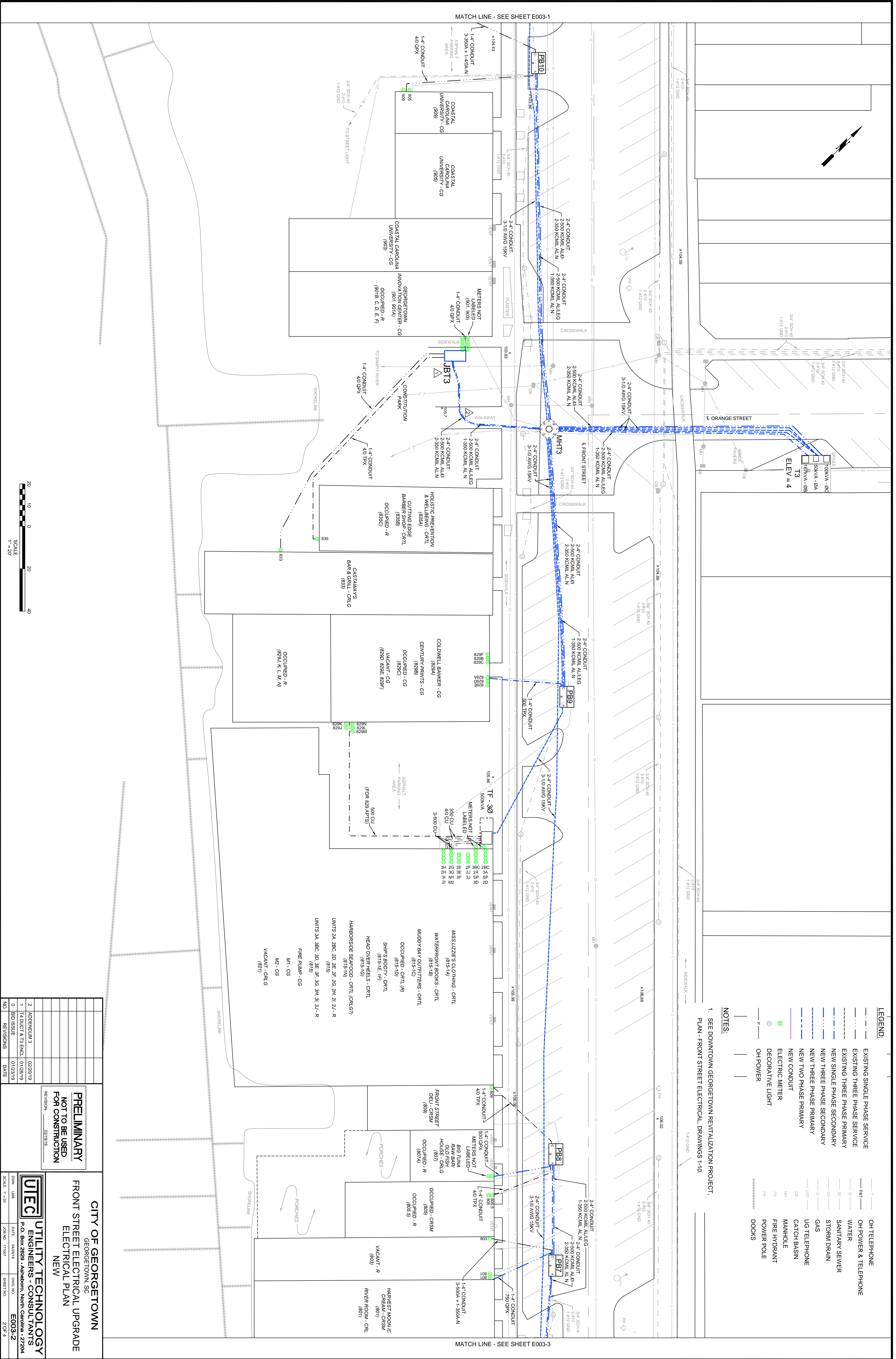
UTEC
 UTILITY TECHNOLOGY
 ENGINEERS - CONSULTANTS
 P.O. Box 2829 • Ashboro, North Carolina • 27204

NO.	REVISIONS	DATE
0	BID ISSUE	01/23/19
1	14 DUCT & 13 ENCL	01/28/19
2	ADDENDUM 3	02/20/19

REVISION 02/18/19

PRELIMINARY
 NOT TO BE USED
 FOR CONSTRUCTION

DATE: 04/26/18
 DWG. NO.: E003-1
 SHEET NO.: 1 OF 4



LEGEND:

- EXISTING SINGLE PHASE SERVICE
- EXISTING THREE PHASE SERVICE
- EXISTING THREE PHASE PRIMARY
- NEW SINGLE PHASE SECONDARY
- NEW THREE PHASE SECONDARY
- NEW THREE PHASE PRIMARY
- NEW TWO PHASE PRIMARY
- NEW CONDUIT
- ELECTRIC METER
- DECORATIVE LIGHT
- OH POWER
- OH TELEPHONE
- OH POWER & TELEPHONE
- WATER
- SANITARY SEWER
- STORM DRAIN
- GAS
- UG TELEPHONE
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT
- POWER POLE
- DOCKS

NOTES:

- SEE DOWNTOWN GEORGETOWN REVITALIZATION PROJECT, PLAN - FRONT STREET ELECTRICAL DRAWINGS 1-10.



NO.	REVISIONS	DATE
0	BID ISSUE	01/23/19
1	14 DUCT & T3 ENCL.	01/28/19
2	ADDENDUM 3	02/20/19

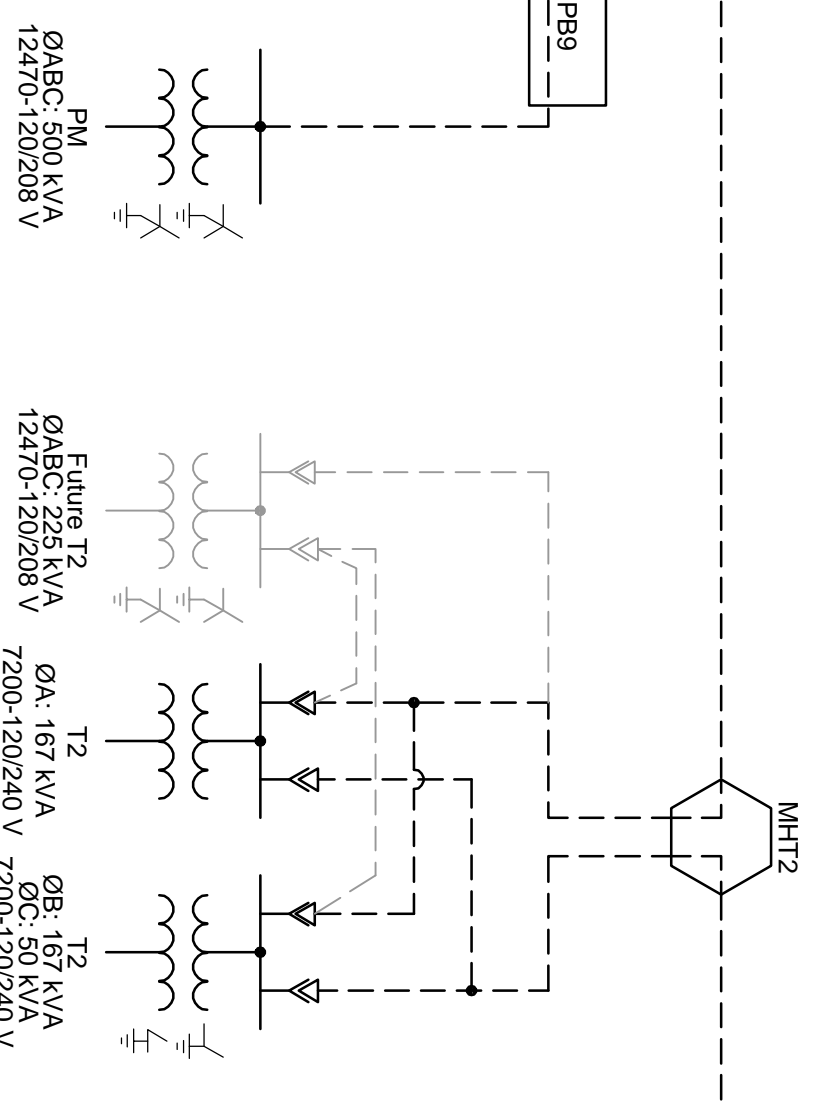
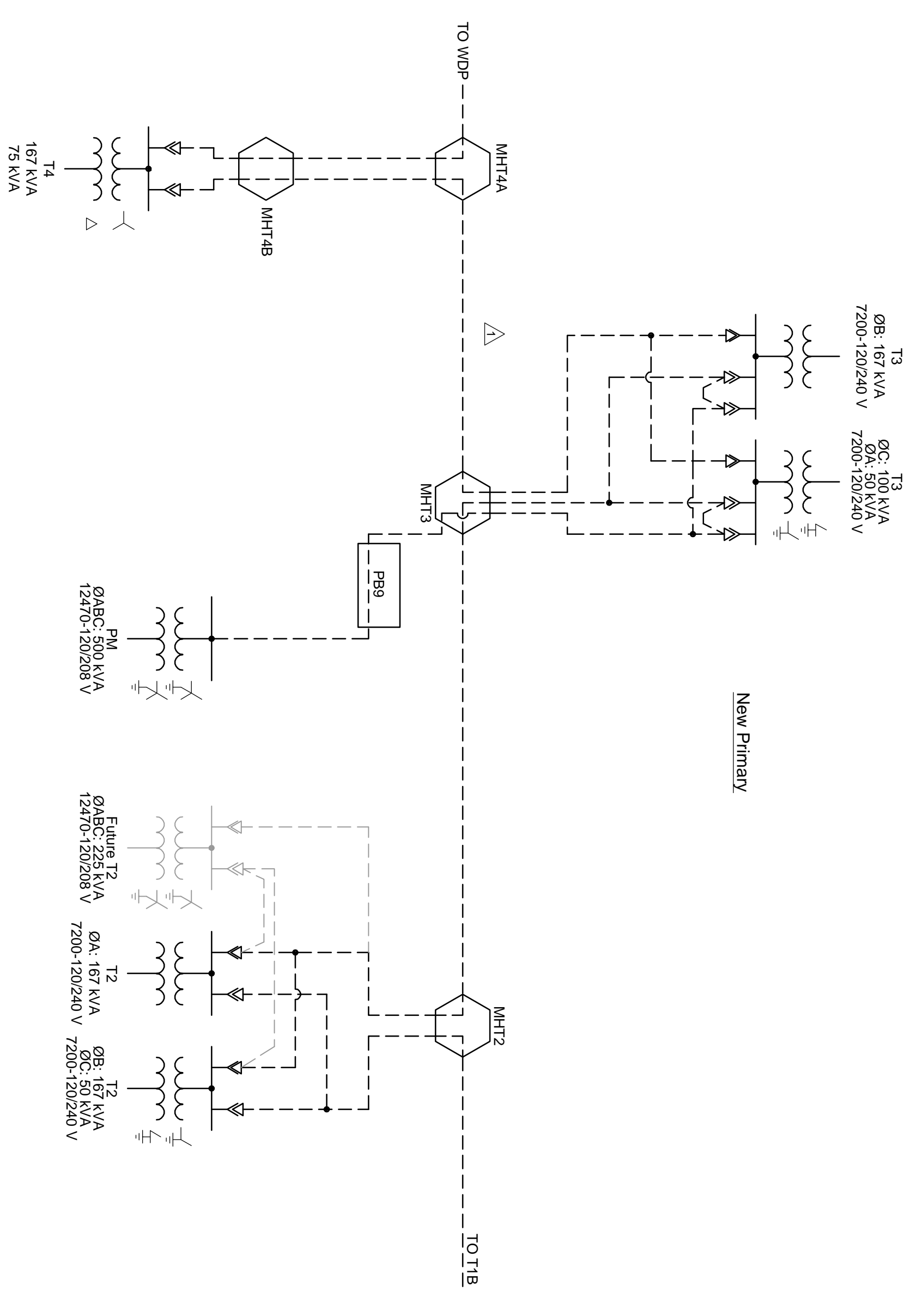
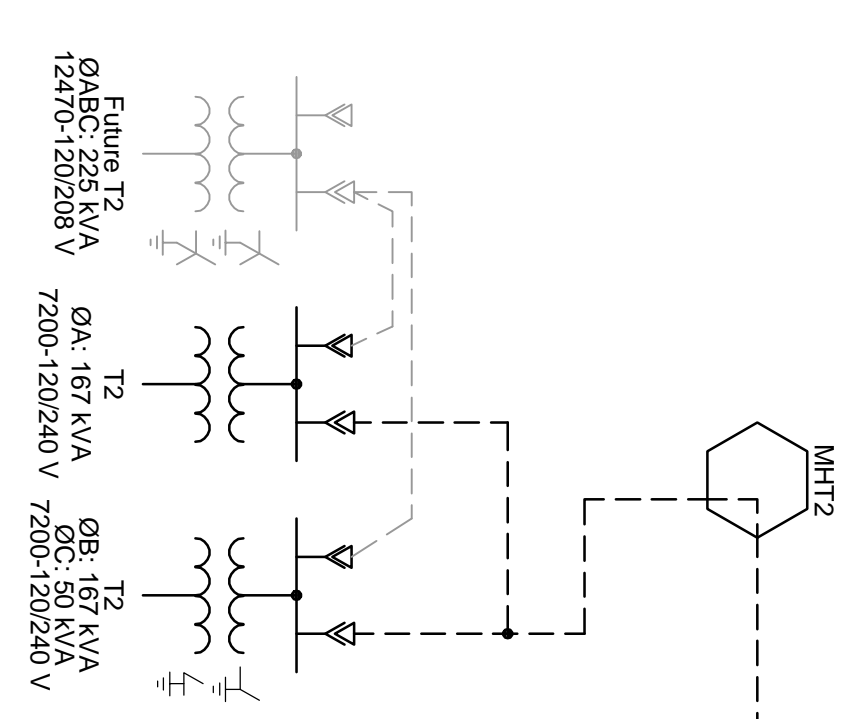
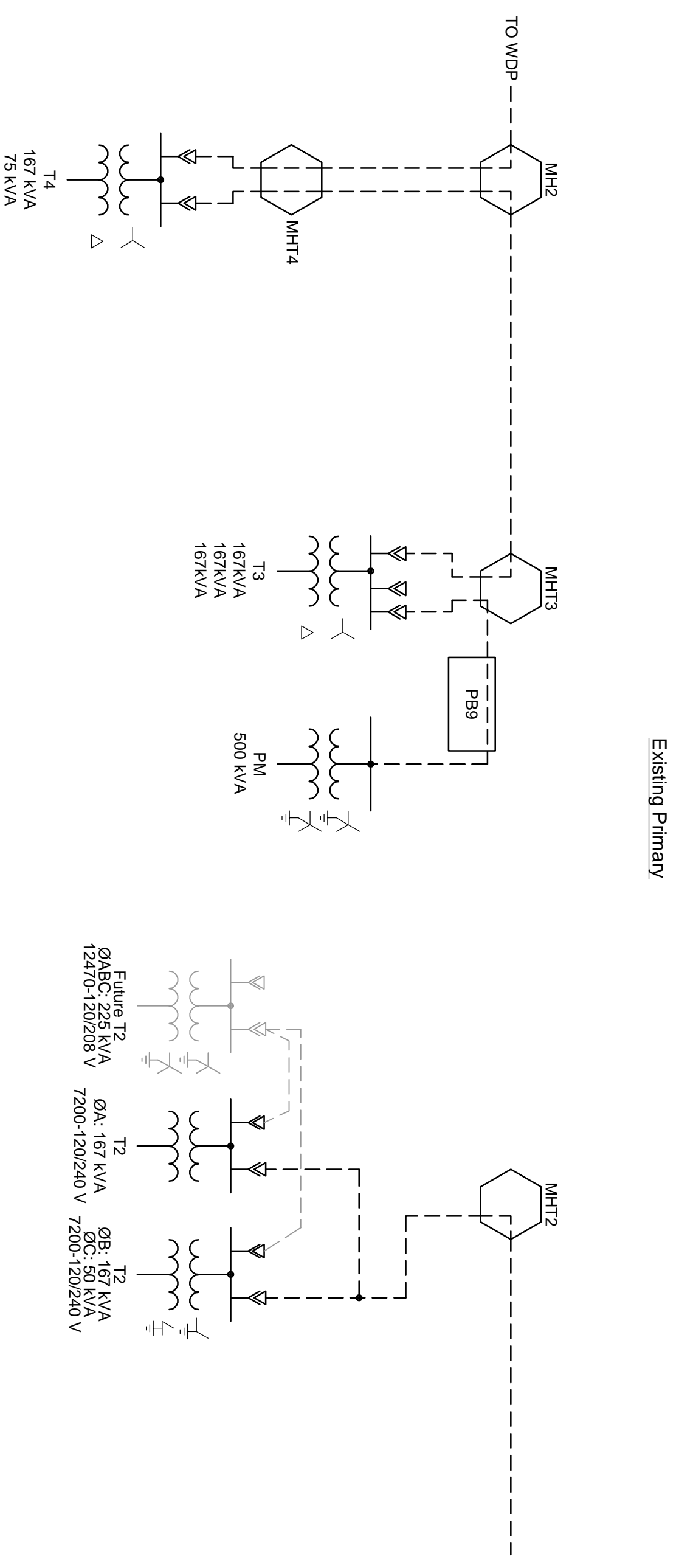
PRELIMINARY	
NOT TO BE USED FOR CONSTRUCTION	
REVISION _____ 02/18/19	

CITY OF GEORGETOWN	
GEORGETOWN, SC	
FRONT STREET ELECTRICAL UPGRADE	
ELECTRICAL PLAN	
NEW	

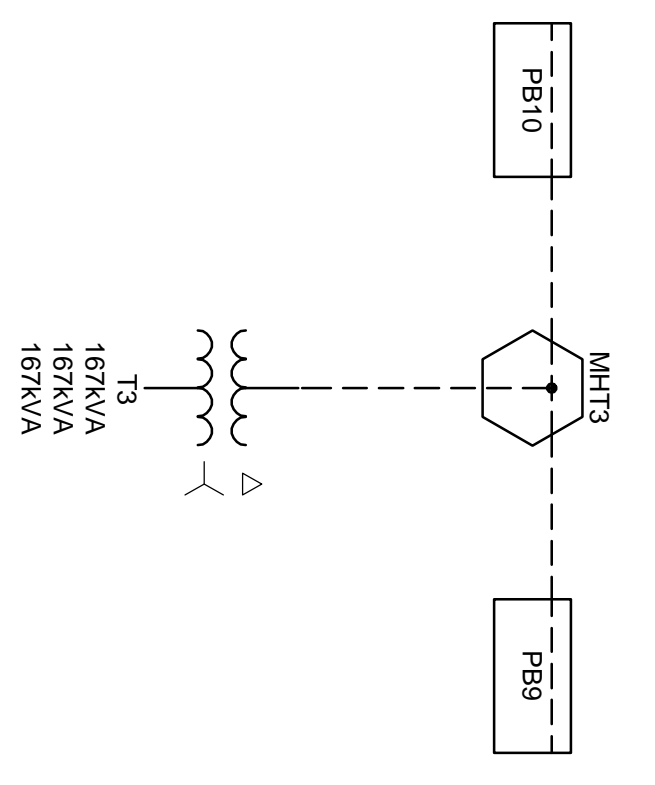
UTEC	
UTILITY TECHNOLOGY	
ENGINEERS - CONSULTANTS	
P.O. Box 2829 • Asheville, North Carolina • 27204	
DATE: 04/29/18	DWG. NO. E003-2
SCALE: 1" = 20'	SHEET NO. 2 OF 4

MATCH LINE - SEE SHEET E003-1

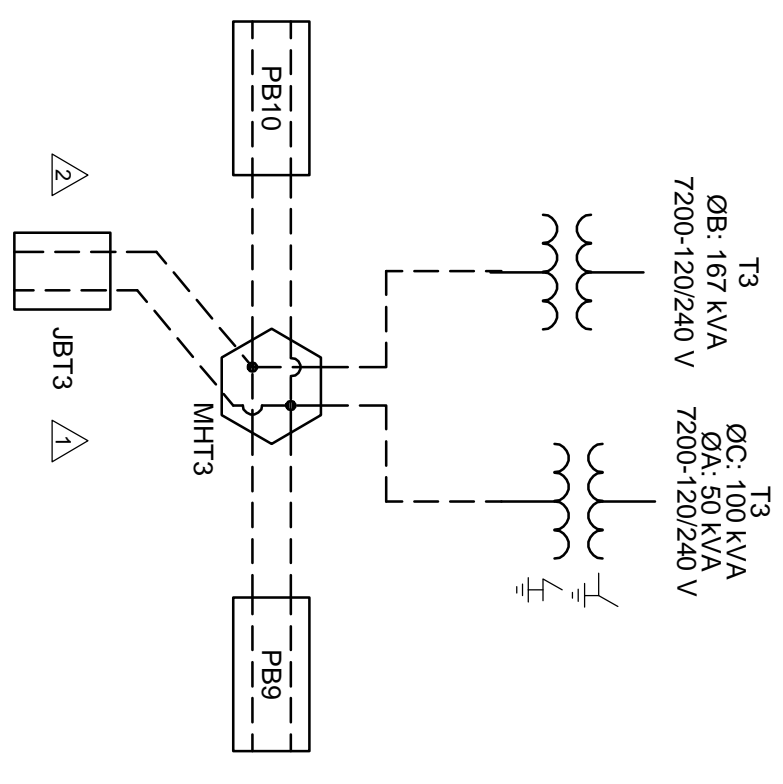
MATCH LINE - SEE SHEET E003-3



Existing Secondary



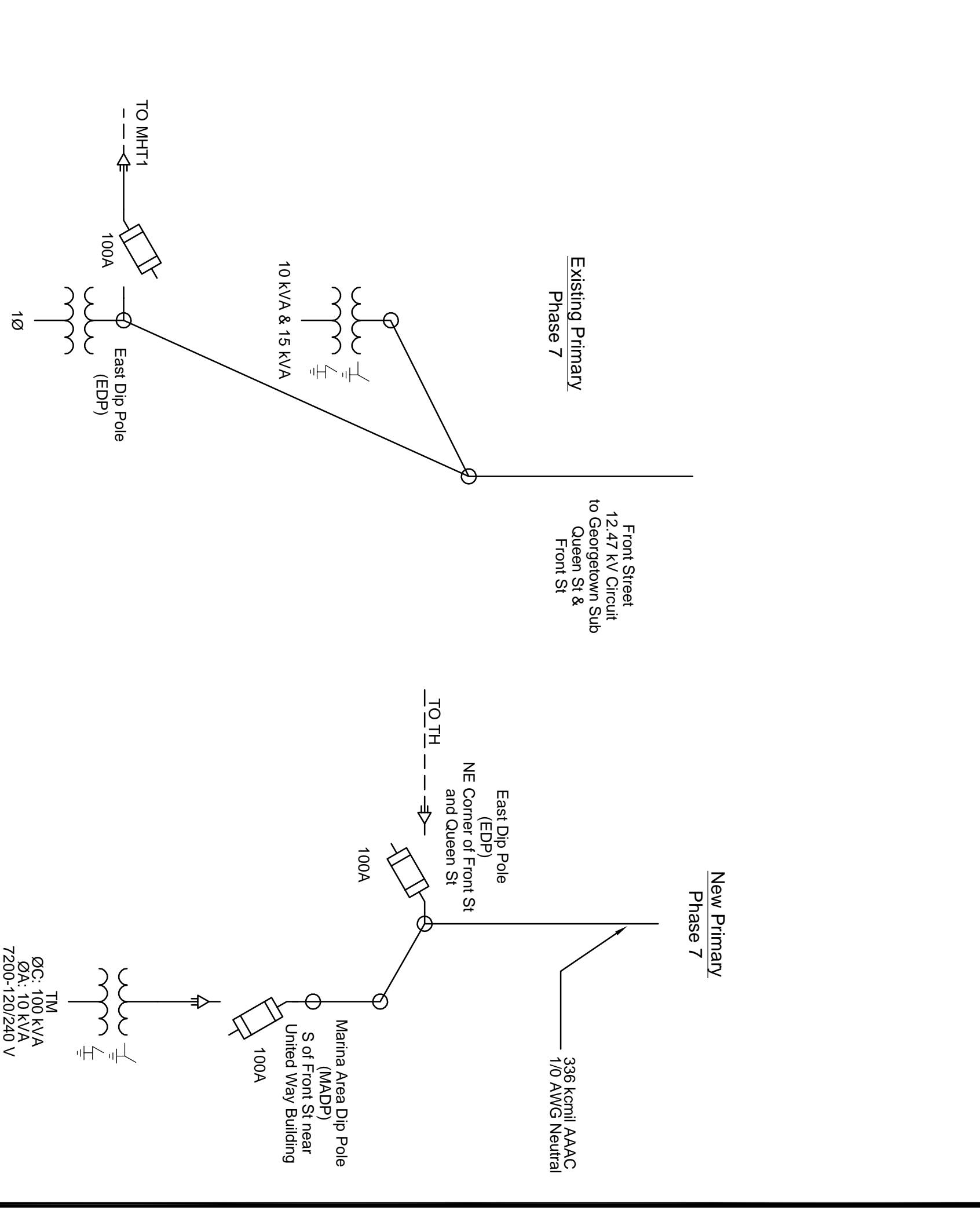
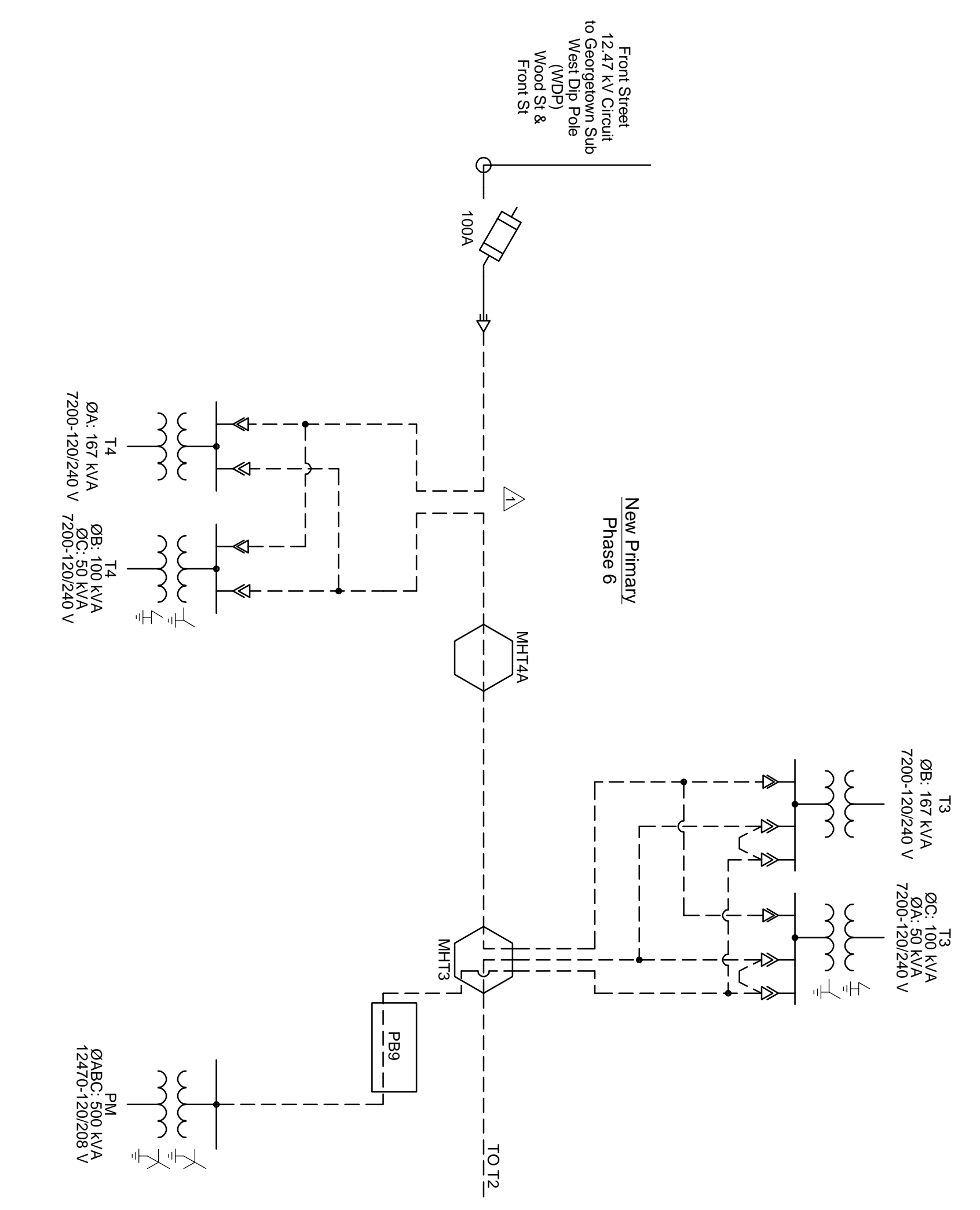
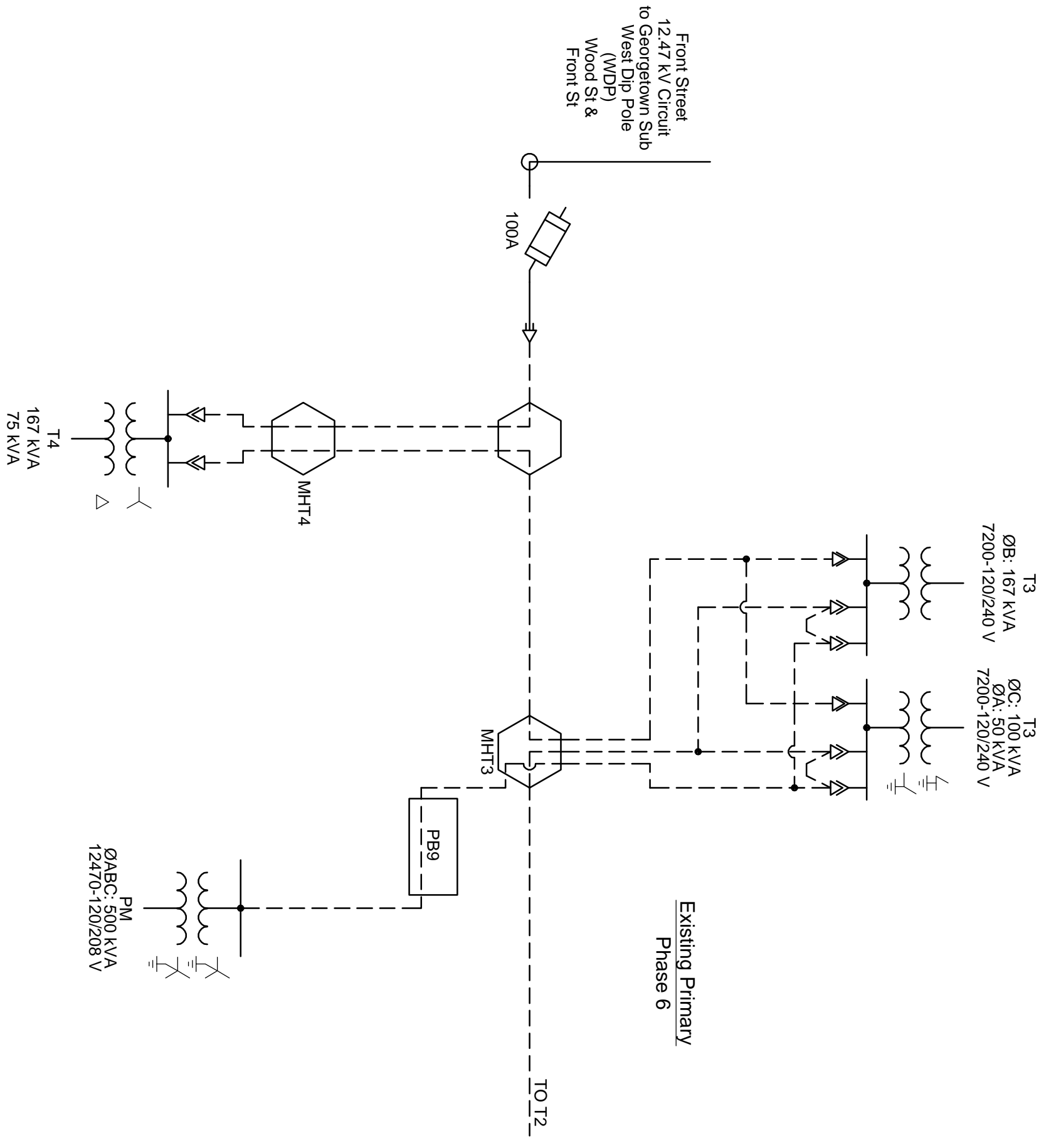
New Secondary



PHASE 5 - TRANSFORMERS T3 AND TF

1. INSTALL NEW T3 TRANSFORMERS.
2. REMOVE EXISTING CABLE WALL CHANNELS AND CABLE SUPPORT BRACKETS IN MHT3, PB9, AND PB10. LEAVE EXISTING CABLES IN MANHOLE/PULLBOXES.
3. INSTALL NEW CABLE WALL CHANNELS AND CABLE SUPPORT BRACKETS IN MHT3, PB9, AND PB10.
4. INSTALL NEW PRIMARY CABLE FROM T2 TO T3. INSTALL NEW PRIMARY CABLE FROM T3 TO MHT3 FOR EXISTING TF TRANSFORMER.
5. INSTALL NEW SECONDARY CABLE FROM T3 TO MHT3.
6. INSTALL NEW SECONDARY CABLE FROM MHT3 TO PB9 FOR THE NEW T3 SINGLE PHASE TRANSFORMER ONLY.
7. INSTALL NEW SECONDARY CABLE FROM MHT3 TO PB10 FOR THE NEW T3 OPEN-WYE/OPEN-DELTA TRANSFORMER ONLY.
8. DE-ENERGIZE EXISTING PADMOUNT AND T3 TRANSFORMERS. DISCONNECT AND REMOVE SECONDARY CABLES TO MHT3, RE-ENERGIZE EXISTING T3 TRANSFORMERS TO CONTINUE SERVICE TO CUSTOMERS 833 FRONT ST, 835 FRONT ST, AND 901/903 FRONT ST.
9. SWAP ALL SERVICES IN MHT3 FROM EXISTING T3 TRANSFORMER SECONDARIES TO NEW T3 TRANSFORMER SECONDARIES. SWAP ALL SERVICES IN PB9 FROM EXISTING T3 TRANSFORMER SECONDARIES TO NEW T3 SINGLE PHASE TRANSFORMER ONLY. NEW LARGER SERVICE CABLE TO BE INSTALLED FOR CUSTOMER 829 FRONT ST. SWAP ALL SERVICES IN PB10 FROM EXISTING T3 TRANSFORMER SECONDARIES TO NEW T3 OPEN-WYE/OPEN-DELTA TRANSFORMER BANK SECONDARIES ONLY. REMOVE ALL PREVIOUS SECONDARY CABLES IN MHT3, PB9 AND PB10.
10. SPlice EXISTING TF PRIMARY CABLE TO NEW PRIMARY CABLE FROM NEW T3 TRANSFORMERS IN MHT3. EXISTING PRIMARY CABLE IN PB9 SHOULD BE SUPPORTED ON NEWLY INSTALLED CABLE SUPPORT BRACKETS.
11. ENERGIZE NEW T3 TRANSFORMERS AND EXISTING TF FROM NEW T2 TRANSFORMERS.
12. DE-ENERGIZE AND REMOVE EXISTING T3 TRANSFORMERS, ENCLOSURE, AND ASSOCIATED EQUIPMENT.
13. INSTALL NEW SECONDARY CABLE FROM MHT3 TO NEW JBT3 (EXISTING T3 TRANSCLASURE), RECONNECT ALL SERVICES IN JBT3 TO NEW T3 TRANSFORMER SECONDARY.
14. DE-ENERGIZE NEW T3 TRANSFORMERS. CONNECT NEW JBT3 T3 TRANSFORMER SECONDARY CABLES TO CONNECTORS IN MHT3. RE-ENERGIZE NEW T3 TRANSFORMERS.
15. REMOVE PREVIOUS PRIMARY CABLES FROM T3 TO MHT3. SPlice EXISTING PRIMARY CABLES FROM EXISTING T3 TO EXISTING T4 TO NEW PRIMARY CABLE FROM NEW T3 TRANSFORMERS IN MHT3 TO ALLOW TEMPORARY SERVICE TO THE EXISTING T4 TRANSFORMERS FROM THE EAST SIDE.
16. INSTALL NEW SECONDARY CABLE FROM MHT3 TO PB9 FOR THE T1B OPEN-WYE/OPEN-DELTA TRANSFORMER.
17. DE-ENERGIZE NEW T3 TRANSFORMERS.
18. SWAP SINGLE PHASE SERVICES IN PB10 TO SINGLE PHASE TRANSFORMER SECONDARY.
19. ENERGIZE NEW T3 TRANSFORMERS.

NO.		REVISIONS	DATE
<p>REVISION _____ 02/18/18</p> <p>PRELIMINARY</p> <p>NOT TO BE USED</p> <p>FOR CONSTRUCTION</p>			
<p>CITY OF GEORGETOWN</p> <p>GEORGETOWN, SC</p> <p>FRONT STREET ELECTRICAL UPGRADE</p> <p>CONSTRUCTION SEQUENCE</p> <p>PHASE 5</p>		<p>UTEC</p> <p>UTILITY TECHNOLOGY</p> <p>ENGINEERS - CONSULTANTS</p> <p>P.O. Box 2829 • Ashleboro, North Carolina • 27204</p>	
DATE	12/18/18	DWG NO.	E004-3
SCALE	AS SHOWN	SHEET NO.	1 OF 1

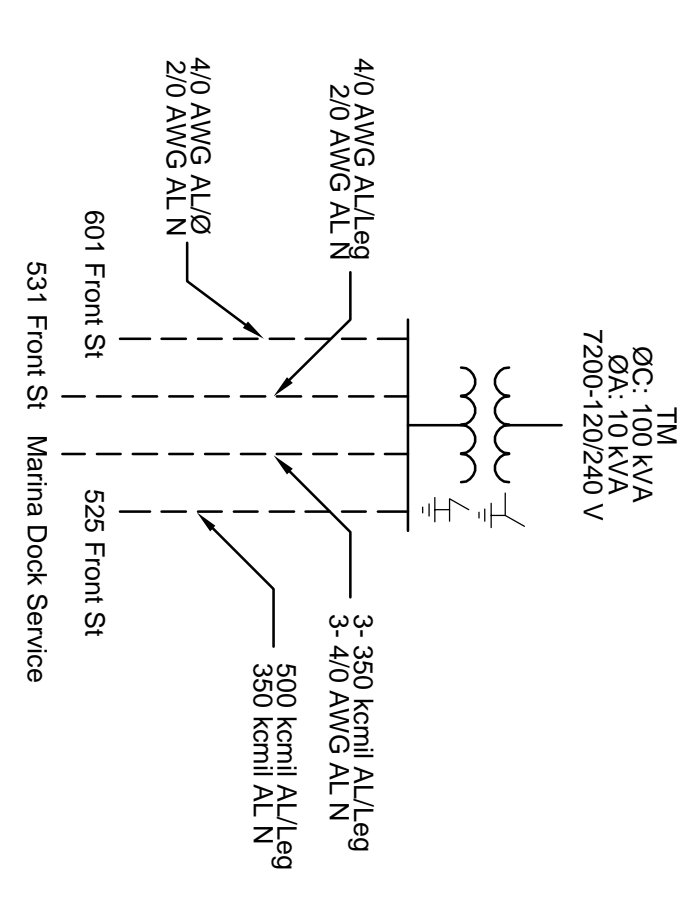
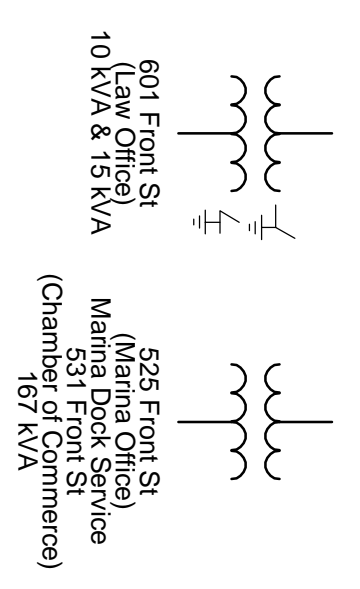
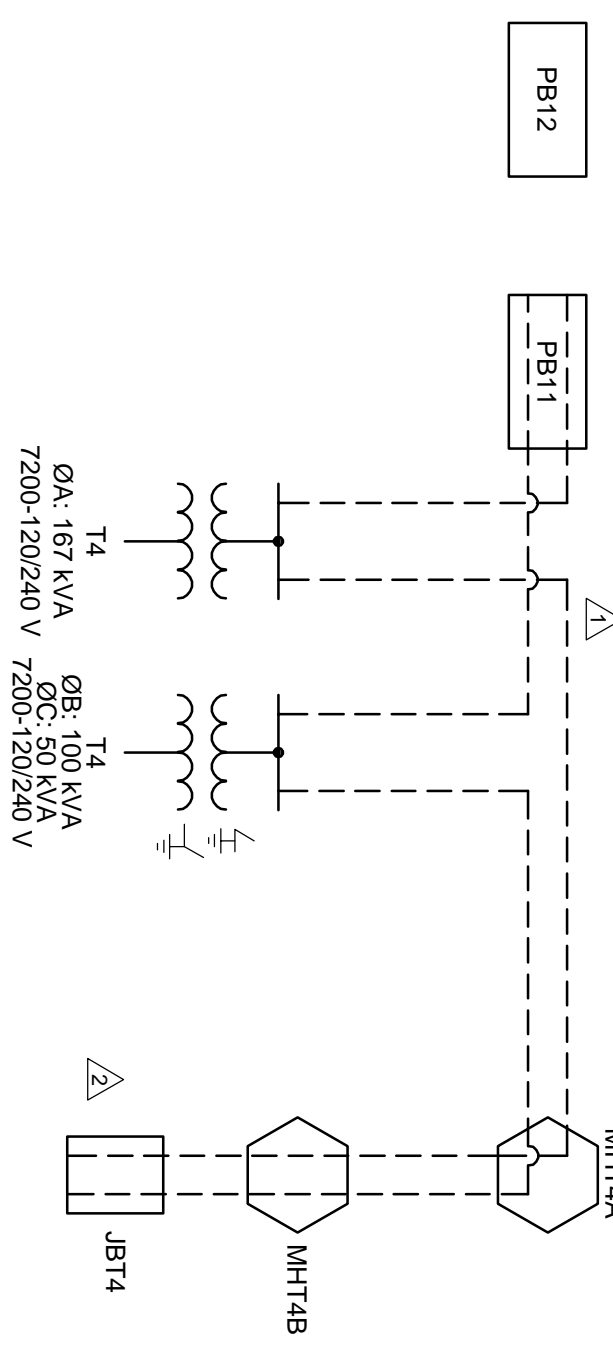
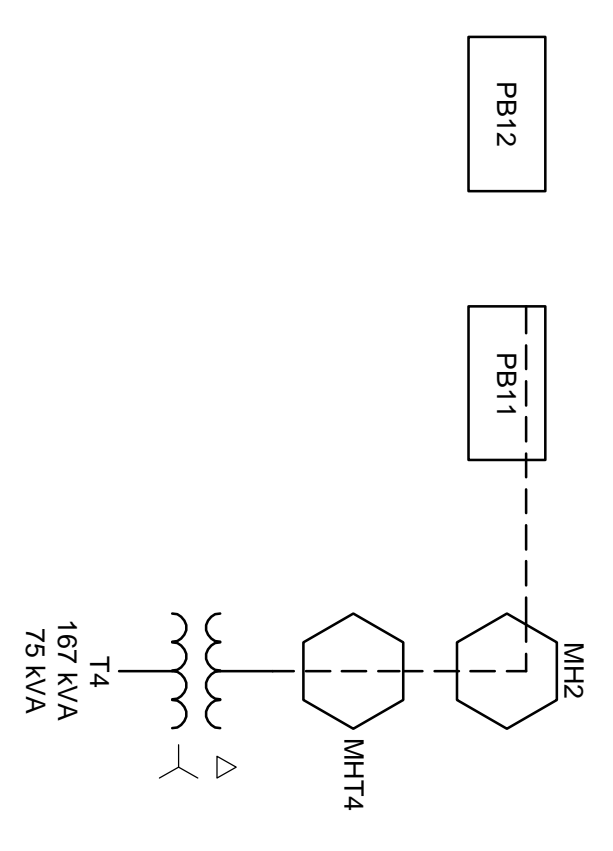


Existing Secondary Phase 6

New Secondary Phase 6

Existing Secondary Phase 7

New Secondary Phase 7



PHASE 6 - TRANSFORMER T4

1. INSTALL NEW T4 TRANSFORMERS.
2. REMOVE PRIMARY CABLE FROM WEST DIP POLE (WDP) TO EXISTING T4 TRANSFORMERS.
3. DE-ENERGIZE EXISTING T4 TRANSFORMERS. REMOVE CONNECTIONS TO PB11 FROM MHT4A (PREVIOUSLY MHT2). INSTALL INSULATING SLEEVES OF EXISTING CONNECTORS WHERE SECONDARY CABLE WAS REMOVED. RE-ENERGIZE EXISTING T4 TRANSFORMERS.
4. LOCATE AND BREAK INTO EXISTING PRIMARY AND SECONDARY DUCT BANK AT SOUTH CROSSWALK OF FRONT ST AND KING ST. INSTALL NEW DUCT BANK FROM NEW T4 TRANSFORMERS. CONNECT NEW DUCT BANK INTO EXISTING DUCT BANKS.
5. INSTALL NEW PRIMARY CABLE FROM WDP TO NEW T4.
6. REMOVE EXISTING CABLE WALL CHANNELS AND CABLE SUPPORT BRACKETS IN MHT4A, MHT4B AND PB11.
7. LEAVE EXISTING CABLES IN MANHOLE/PULLBOXES.
8. INSTALL NEW CABLE WALL CHANNELS AND CABLE SUPPORT BRACKETS IN MHT4A, MHT4B AND PB11.
9. DE-ENERGIZE EXISTING T4 TRANSFORMERS.
10. SWAP ALL SERVICES IN MHT4A AND PB11 FROM EXISTING T4 TRANSFORMERS TO NEW T4 TRANSFORMERS. DISCONNECT ALL SERVICES IN EXISTING T4 TRANSFORMERS. REMOVE ALL PREVIOUS SECONDARY CABLES.
11. REMOVE EXISTING T4 TRANSFORMERS, ENCLOSURE, CABLES AND ASSOCIATED EQUIPMENT.

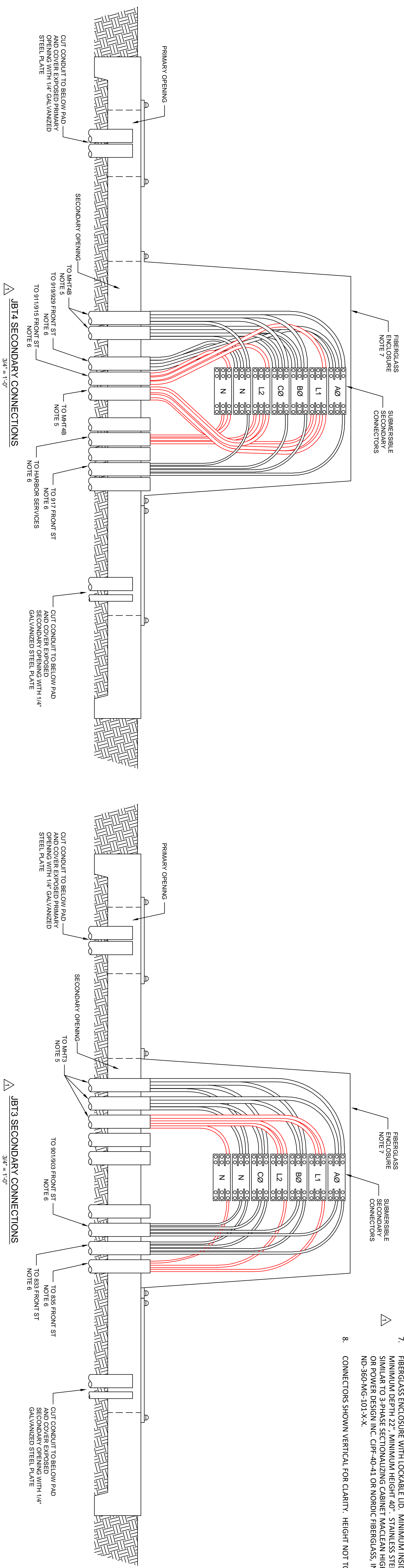
PHASE 7 - TM TRANSFORMER

12. INSTALL NEW SECONDARY CABLE FROM MHT4B TO NEW JB174 (EXISTING T4 ENCLOSURE AREA). RECONNECT ALL SERVICES IN JB174 TO NEW T4 TRANSFORMER SECONDARY.
13. ENERGIZE NEW T4 TRANSFORMERS FROM WDP.
14. INSTALL NEW JB174 ENCLOSURE ON EXISTING T4 FOUNDATION.
15. REMOVE PREVIOUS PRIMARY CABLES FROM EXISTING T4 TO NEW T3.
16. INSTALL NEW PRIMARY CABLE FROM NEW T4 TO NEW T3.

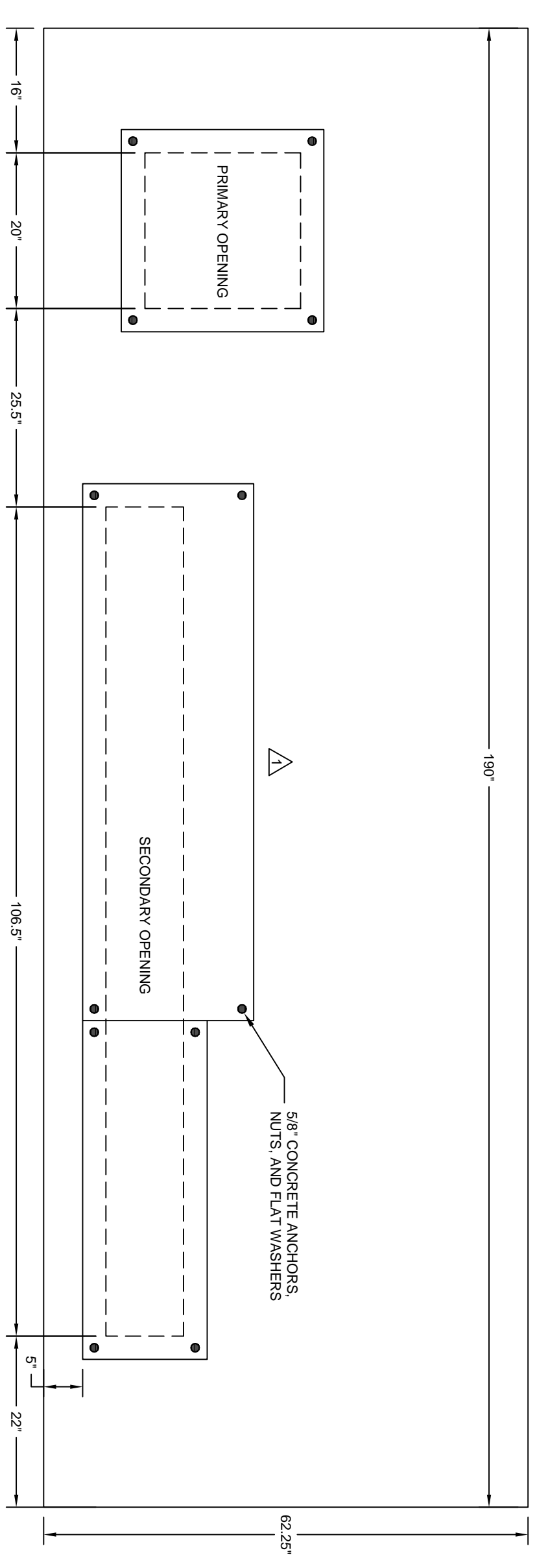
<p>CITY OF GEORGETOWN GEORGETOWN, SC</p> <p>FRONT STREET ELECTRICAL UPGRADE CONSTRUCTION SEQUENCE PHASES 6 - 7</p>		<p>UTEC UTILITY TECHNOLOGY ENGINEERS - CONSULTANTS P.O. Box 2829 • Ashboro, North Carolina • 27204</p>	
DATE: 12/13/18	DWG. NO. E004-4	DATE: 02/20/19	DWG. NO. 1 OF 1
SCALE: NONE	289 NO. 171007	SCALE: NONE	1 OF 1

Equipment Description	Manufacturer (or Equal)	Part Number (or Equal)	Quantity
10 KVA Single Phase Pad-Mounted Transformer (by Owner)			1
50 KVA Single Phase Pad-Mounted Transformer (by Owner)			5
100 KVA Single Phase Pad-Mounted Transformer (by Owner)			3
167 KVA Single Phase Pad-Mounted Transformer (by Owner)			8
750 KVA Three Phase Pad-Mounted Transformer (by Owner)			1
15 kV, 200 A Loadbreak Elbow			41
15 kV, 200 A Loadbreak Feed-Thru Insert			3
15 kV Cable Splice			6
15 kV OH to UG Terminator			6
Flood-seal Multi-port Bus Connectors, 6 outlets; with rubber insulating sleeve covers	Homac	175 Series	116
Flood-seal Dual Adapter Kit	Homac	175 Series	30
Flood-seal Multi-port Bus Connectors, 3 outlets; Y type, with rubber insulating sleeve covers	Homac	125 Series	34
Manhole Wall Support, stainless steel slotted channel, 72" long, 13/16" x 1 5/8", 12 GA			33
Pull Box Wall Support, stainless steel slotted channel, 38" long, 13/16" x 1 5/8", 12 GA			33
Cable Support Bracket, stainless steel slotted channel, 18" long, 1 5/8"x1 5/8", 12 GA	ZSI	Porce-a-Clamp	880
Cable Clamp, 1-7/8", polymer, with stainless steel strap			252
600 V Terminal Lug, 750 Kcmil AL, 2-hole NEMA			6
600 V Terminal Lug, 500 Kcmil AL, 2-hole NEMA			391
600 V Terminal Lug, 350 Kcmil AL, 2-hole NEMA			127
600 V Terminal Lug, # 4/0 AWG AL, 2-hole NEMA			50
600 V Terminal Lug, # 2/0 AWG AL, 2-hole NEMA			25
600 V Terminal Lug, # 1/0 AWG AL, 2-hole NEMA			7
600 V Terminal Lug, # 10 AWG AL, 2-hole NEMA			13
600 V Terminal Lug, # 12 AWG AL, 2-hole NEMA			7
600 V Terminal Lug, # 4/0 AWG AL, 1-hole NEMA			14
600 V Terminal Lug, 500 Kcmil AL, 1-hole NEMA			6
600 V Terminal Lug, 350 Kcmil AL, 1-hole NEMA			22
600 V Terminal Lug, # 4/0 AWG AL, 1-hole NEMA			9
600 V Terminal Lug, # 2/0 AWG AL, 1-hole NEMA			7
600 V Terminal Lug, # 1/0 AWG AL, 1-hole NEMA			20
600 V Terminal Lug, # 10 AWG AL, 1-hole NEMA			10
600 V Terminal Lug, # 12 AWG AL, 1-hole NEMA			40
4-hole NEMA Stud Connector			5
6-hole NEMA Stud Connector			2
Fiberglass Enclosure w/ lockable lid, Min Inside Width 69", Min Depth 22", Min Height 40", w/ Stainless Steel Hardware			

<p style="text-align: center;">PRELIMINARY NOT TO BE USED FOR CONSTRUCTION</p> <p style="text-align: center;">REVISION 02/20/19</p>		
NO.	REVISIONS	DATE
2	ADDENDUM 3	02/20/19
1	T4 DUCT & T3 ENCL	01/28/19
0	BID ISSUE	01/23/19
<p style="text-align: center;">CITY OF GEORGETOWN GEORGETOWN, SC</p> <p style="text-align: center;">FRONT STREET ELECTRICAL UPGRADE BILL OF MATERIALS</p>		
<p style="text-align: center;">UTEC UTILITY TECHNOLOGY ENGINEERS - CONSULTANTS P.O. Box 2829 • Ashboro, North Carolina • 27204</p>		
DWG. NO.	DATE	DWG. NO.
SCALE	NO. OF SHEETS	SHEET NO.
NO. 1	1 OF 1	E005

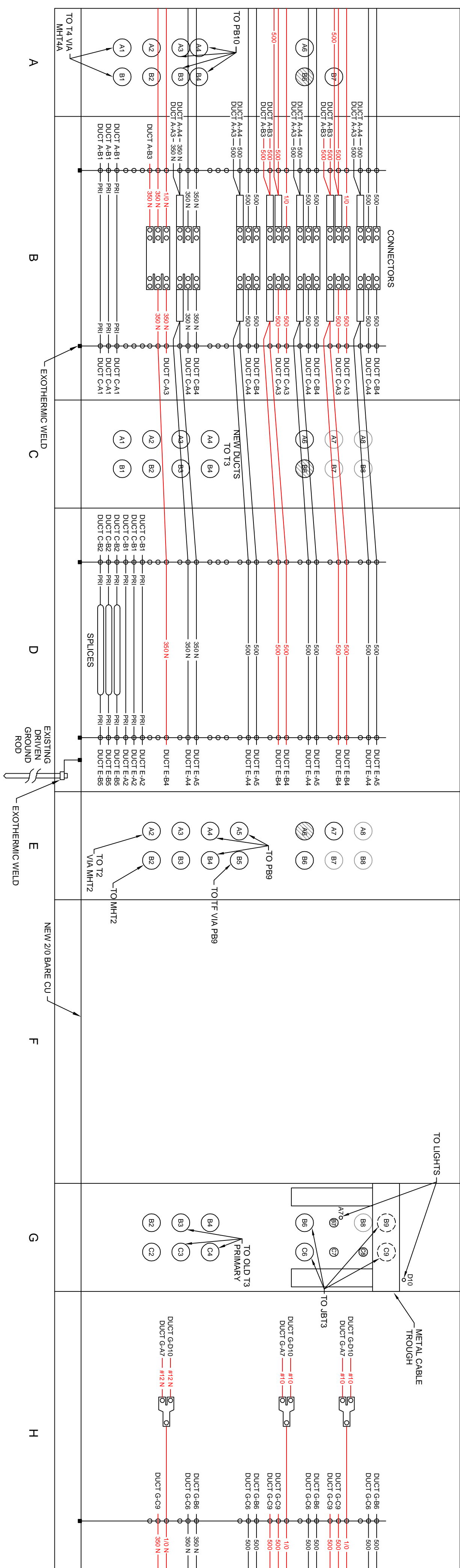
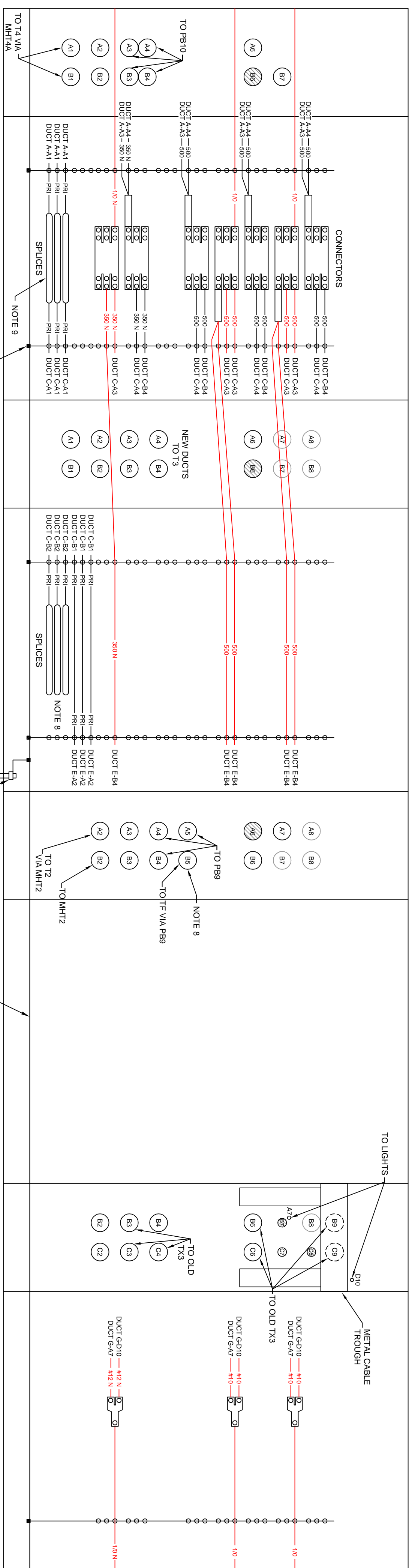


- NOTES:**
- SEE DWG E004 FOR DETAILED CONSTRUCTION SEQUENCE.
 - VERIFY PHASE ROTATION OF 3-PHASE SERVICES BEFORE DISCONNECTING THE SERVICE FROM THE EXISTING SECONDARY CABLES AND AFTER CONNECTING TO THE NEW SECONDARY CABLE, BUT BEFORE CLOSING THE SERVICE DISCONNECT.
 - ALL EXISTING SERVICE CABLES TO BE KEPT IF IN ACCEPTABLE CONDITION UNLESS OTHERWISE NOTED. ALL SERVICE CABLES TO BE TAGGED WITH SERVICE ADDRESSES.
 - RECONNECT ALL LIGHTING/OUTLET CABLES NOT SHOWN ON THE DRAWING.
 - VERIFY CONDUIT PATHS BEFORE PULLING NEW CABLES.
 - VERIFY WHICH CONDUIT GOES TO WHICH ADDRESS AND TAG CABLES ACCORDINGLY.
 - FIBERGLASS ENCLASURE WITH LOCKABLE LID. MINIMUM INSIDE WIDTH 69", MINIMUM DEPTH 22", MINIMUM HEIGHT 40". STAINLESS STEEL HARDWARE SIMILAR TO 3-PHASE SECTIONALIZING CABINET MACLEAN HIGHLINE ESC6541 OR POWER DESIGN INC. CIPF-40-41 OR NORBIC FIBERGLASS, INC. ND-360-16G-101-X-X.
 - CONNECTORS SHOWN VERTICAL FOR CLARITY. HEIGHT NOT TO SCALE.



TYPICAL TRANSCLOSURE FOUNDATION PLAN VIEW
3/4" = 1'-0"

<p>CITY OF GEORGETOWN GEORGETOWN, SC</p> <p>FRONT STREET ELECTRICAL UPGRADE MISCELLANEOUS DETAILS</p>		<p>UTEC UTILITY TECHNOLOGY ENGINEERS - CONSULTANTS P.O. Box 2829 • Ashboro, North Carolina • 27204</p>	
NO.	REVISIONS	DATE	
1	APPENDIX 3	02/20/19	
0	14-DIGIT A 13 ENCL	01/28/19	
<p>PRELIMINARY NOT TO BE USED FOR CONSTRUCTION</p> <p>REVISION _____ 02/18/19</p>			
DATE	TIME	DWG. NO.	SHEET NO.
		02810	11/201
SCALE: NOTED		E011-2	
		1 OF 2	

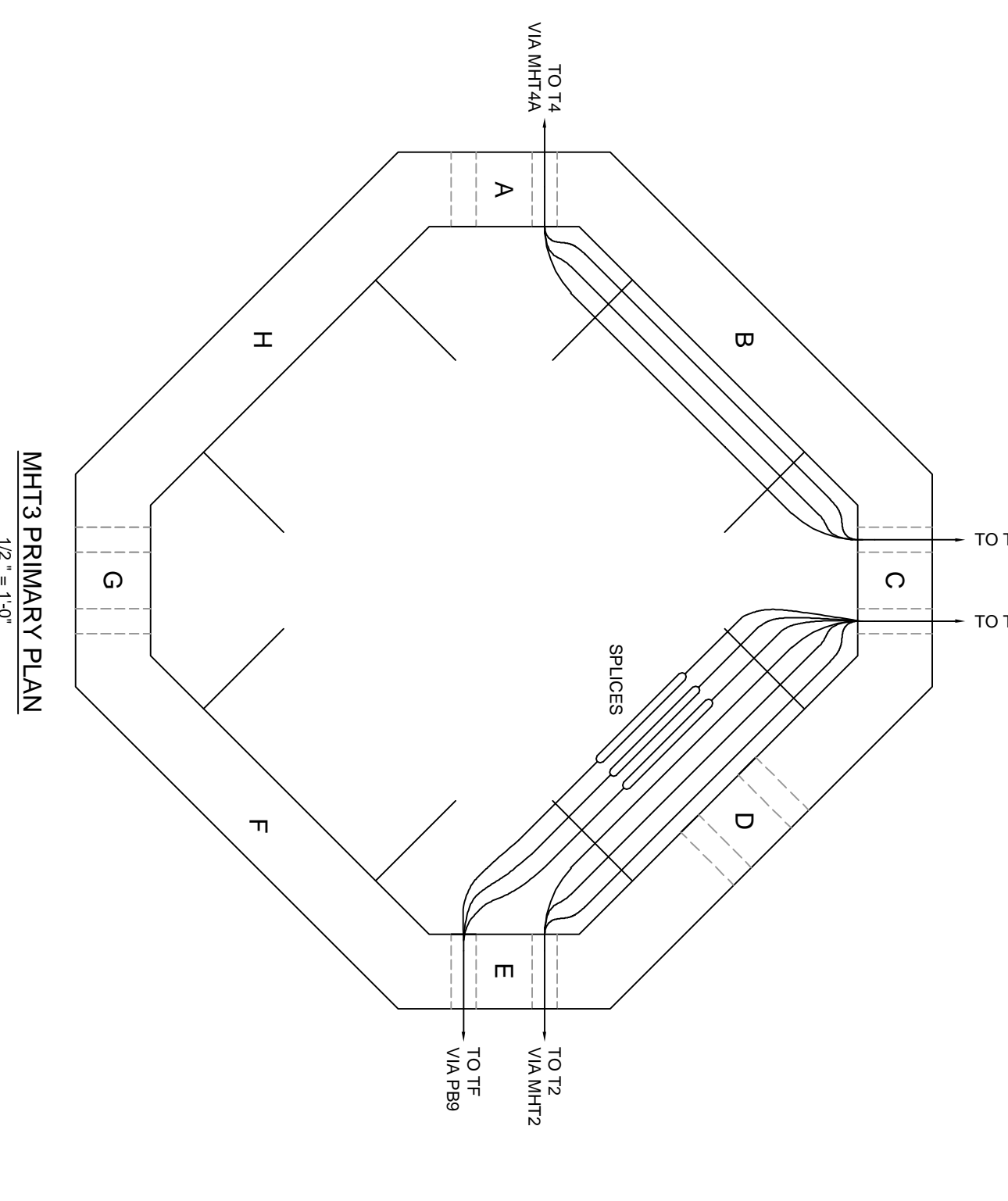
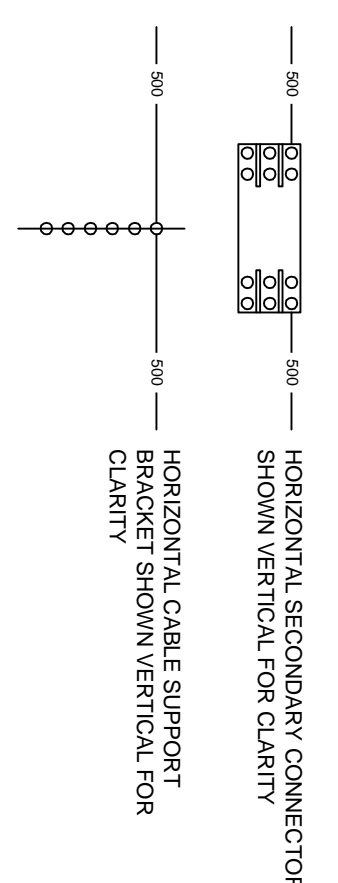


NOTES:

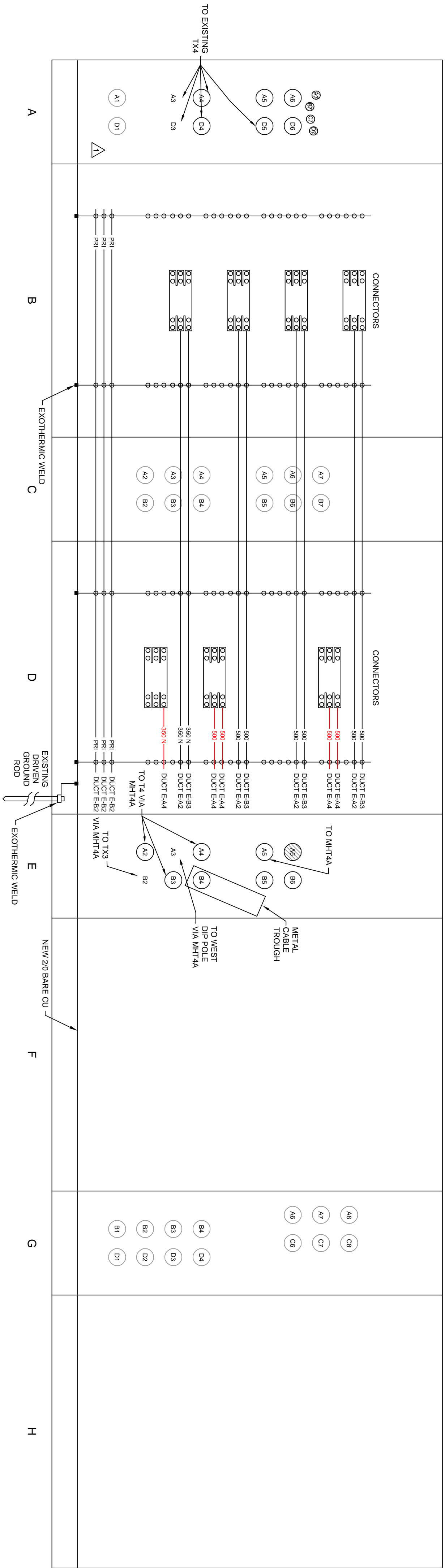
1. SEE DWG E004 FOR DETAILED CONSTRUCTION SEQUENCE.
2. VERIFY PHASE ROTATION OF 3-PHASE SERVICES BEFORE DISCONNECTING THE SERVICE FROM THE EXISTING SECONDARY CABLES AND AFTER CONNECTING TO THE NEW SECONDARY CABLE, BUT BEFORE CLOSING THE SERVICE DISCONNECT.
3. ALL EXISTING SERVICE CABLES TO BE KEPT IF IN ACCEPTABLE CONDITION UNLESS OTHERWISE NOTED. ALL SERVICE CABLES TO BE TAGGED WITH SERVICE ADDRESSES.
4. RECONNECT ALL LIGHTING/OUTLET CABLES NOT SHOWN ON THE DRAWING.
5. VERIFY CONDUIT PATHS BEFORE PULLING NEW CABLES.
6. ALL EXISTING CABLE WALL SUPPORTS SHALL BE REMOVED AND REPLACED. ALL EXISTING CABLE SUPPORT BRACKETS SHALL BE REMOVED AND NEW BRACKETS INSTALLED AS SHOWN. NEW GROUND CABLE SHOULD BE INSTALLED FROM EXISTING GROUND ROD TO NEW CHANNELS.
7. FIREPROOFING TAPE SHALL BE INSTALLED ON PRIMARY CABLES WHERE ONE PRIMARY CIRCUIT IS ROUNDED ADJACENT TO ANOTHER PRIMARY CIRCUIT. TIGHTLY WRAP STRIPS OF FIREPROOFING TAPE AROUND EACH CABLE SPIRALLY IN HALF-LAPPED WRAPPING. INSTALL TAPE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. EXTEND TAPE TO THE END OF THE WALL WHERE THE CIRCUITS ARE ADJACENT.
8. WHEN EXISTING T3 IS DEENERGIZED TO SWAP CUSTOMERS TO NEW T3, CONNECT EXISTING PADMOUNT PRIMARY CABLE TO NEW PADMOUNT PRIMARY SERVED FROM NEW T3 IN MHT3. EXISTING PRIMARY SHALL BE SUPPORTED ON NEW CABLE SUPPORT BRACKETS IN P89.
9. EXISTING PRIMARY CABLE FROM EXISTING T3 TO EXISTING T4 TO BE SPLICED TO NEW PRIMARY CABLE FROM NEW T3.

LEGEND:

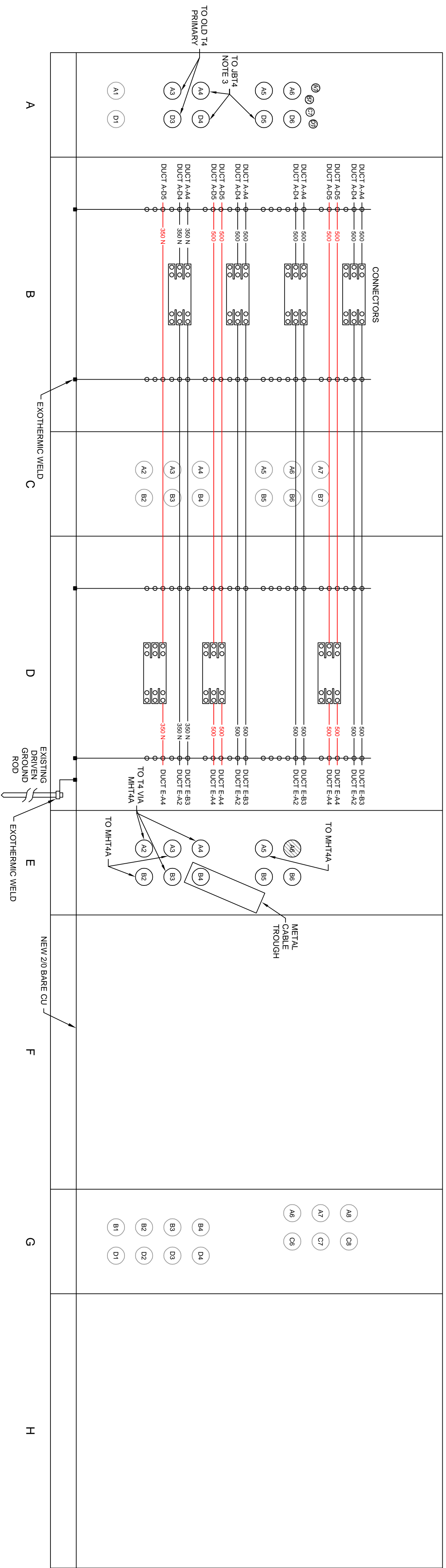
- CONDUIT USED BY OTHERS
- OPEN CONDUIT
- CONDUIT KNOCKOUT
- HOA/MC 175 SERIES
- HOA/MC 175 SERIES
- HOA/MC 125 SERIES
- SSS — SINGLE PHASE TRANSFORMER SECONDARY SIZE SSS
- PPH — THREE PHASE TRANSFORMER SECONDARY SIZE SSS
- PRI — PRIMARY
- DUCT G-45 — CABLE EXTENDS TO CONDUIT AS ON FACE OF MANHOLE



<p>PRELIMINARY NOT TO BE USED FOR CONSTRUCTION</p>		<p>CITY OF GEORGETOWN GEORGETOWN, SC</p>	
<p>UTEC UTILITY TECHNOLOGY ENGINEERS - CONSULTANTS</p>		<p>FRONT STREET ELECTRICAL UPGRADE CABLE RACKING DETAILS MANHOLE T3</p>	
NO.	REVISIONS	DATE	DATE
1	14 DUCT & T3 ENCL.	01/28/19	
2	ADDENDUM 3	02/20/19	
3	REVISED	02/20/19	
4	REVISED	02/20/19	
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100	REVISED	02/20/19	



INSIDE WALL ELEVATION - MHT4B
TEMPORARY LAYOUT

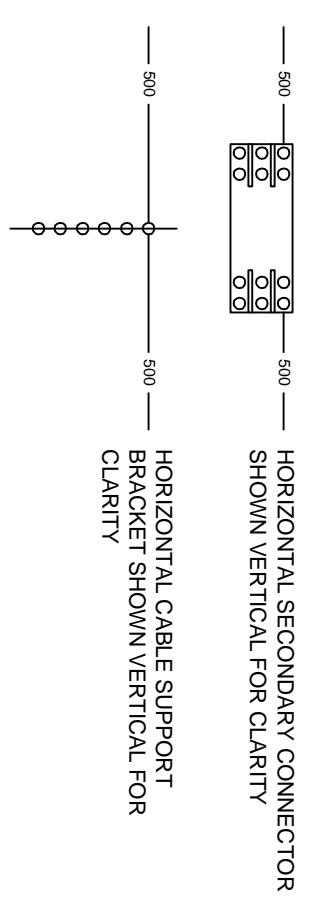


INSIDE WALL ELEVATION - MHT4B
FINAL LAYOUT

- NOTES:
- SEE DWG E004 FOR DETAILED CONSTRUCTION SEQUENCE.
 - RECONNECT ALL LIGHTING/OUTLET CABLES NOT SHOWN ON THE DRAWING.
 - VERIFY CONDUIT PATHS BEFORE PULLING NEW CABLES.
 - ALL EXISTING CABLE WALL SUPPORTS SHALL BE REMOVED AND REPLACED. ALL EXISTING CABLE SUPPORT BRACKETS SHALL BE REMOVED AND NEW BRACKETS INSTALLED AS SHOWN. NEW GROUND CABLE SHOULD BE INSTALLED FROM EXISTING GROUND ROD TO NEW CHANNELS.

LEGEND:

- CONDUIT USED BY OTHERS
- OPEN CONDUIT
- CONDUIT KNOCKOUT
- HOMAC 775 SERIES
- HOMAC 775 SERIES
- HOMAC 125 SERIES
- SINGLE PHASE TRANSFORMER SECONDARY SIZE SSS
- THREE PHASE TRANSFORMER SECONDARY SIZE SSS
- PRIMARY
- CABLE EXTENDS TO CONDUIT AS ON FACE OF MANHOLE



<p>PRELIMINARY NOT TO BE USED FOR CONSTRUCTION</p>	
<p>REVISION _____ DATE _____</p>	<p>REVISION _____ DATE _____</p>
<p>2. ADDENDUM 3 02/20/19</p>	<p>1. T4 DUCT & TR ENCL 01/28/19</p>
<p>0. BID ISSUE 01/23/19</p>	<p>NO. REVISIONS DATE</p>
<p>CITY OF GEORGETOWN GEORGETOWN, SC</p> <p>UTILITY TECHNOLOGY ENGINEERS - CONSULTANTS P.O. Box 2829 • Ashboro, North Carolina • 27204</p>	
<p>DATE: 03/21/18</p>	<p>DWG NO: E017</p>
<p>SCALE: 3/4" = 1'-0"</p>	<p>SHEET NO: 1 OF 1</p>

CONDUIT SCHEDULE					
Conduit No.	Installation Type	From	To	Length	Cables
1	Direct Bore	Marina Area Dip Pole (MADP)	Transformer TM	125	P1 Spare
2	Direct Bore	Transformer TM	525 Front St	80	S1
3	Direct Bore	Transformer TM	531 Front St	10	S2
4	Direct Bore	Transformer TM	601 Front St	155	S3
5	Direct Bore	Transformer TM	Marina Dock	180	S4
6	Direct Bore	Transformer TM	Marina Dock	180	S4
7	Direct Bore	Transformer TM	Marina Dock	180	S4
8	Direct Bore	Transformer TM	Marina Dock	180	S4
9	Direct Bore	Transformer TM	Marina Dock	180	S4
10	Direct Bore	Transformer TM	Marina Dock	180	S4
11	Direct Bore	Transformer TM	Marina Dock	180	S4
12	Direct Bore	Transformer TM	Marina Dock	180	S4
13	Direct Bore	Transformer TM	Marina Dock	180	S4
14	Direct Bore	Transformer TM	Marina Dock	180	S4
15	Direct Bore	Transformer TM	Marina Dock	180	S4
16	Direct Bore	Transformer TM	Marina Dock	180	S4
17	Direct Bore	Transformer TM	Marina Dock	180	S4
18	Direct Bore	Transformer TM	Marina Dock	180	S4
19	Direct Bore	Transformer TM	Marina Dock	180	S4
20	Direct Bore	Transformer TM	Marina Dock	180	S4
21	Direct Bore	Transformer TM	Marina Dock	180	S4
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45	Direct Bore	Transformer TM	Marina Dock	180	S4
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63	Direct Bore	Transformer TM	Marina Dock	180	S4
64	Direct Bore	Transformer TM	Marina Dock	180	S4
65	Direct Bore	Transformer TM	Marina Dock	180	S4


CABLE SCHEDULE						
Cable No.	Cable Type	Cable Size	Cable Length	From	To	MH / PB
P1	A	2 - 1/0 AWG AL	175	MADP	TM	
P2	A	3 - 1/0 AWG AL	385	EDP	TH	
P3	A	3 - 1/0 AWG AL	160	TH	T1A - H1A	
P4	A	3 - 1/0 AWG AL	380	T1A - H1B	T1B - H1A	MHT1B
P5	A	3 - 1/0 AWG AL	635	T1B - H1B	T1B - H1A	MHT1B
P6	A	3 - 1/0 AWG AL	790	T2 - H1B	T3 - H1A	MHT2
P7	A	3 - 1/0 AWG AL	160	T3 - H1A	MHT3	MHT3
P8	A	3 - 1/0 AWG AL	505	T3 - H1B	T4 - H1A	MHT3
P9	A	3 - 1/0 AWG AL	750	T4 - H1B	WDP	MHT4
P10	A	3 - 1/0 AWG AL	160	T3 - H1B	MHT3	MHT4
S1	C	1-500 kcmil AL/leg 1-350 kcmil AL/N	100	TM	525 Front St	
S2	C	1-4/0 AWG AL/leg 1-2/0 AWG AL/N	30	TM	531 Front St	
S3	C	1-4/0 AWG AL/leg 1-2/0 AWG AL/N	175	TM	601 Front St	
S4	C	1-350 kcmil AL/leg 1-4/0 AWG AL/N	200	TM	Marina Dock	
S5	B	2-500 kcmil AL	15	T1A - 3Ø 167 kVA X1	T1A - 3Ø 50 kVA X3	
S6	B	2-500 kcmil AL/Ø	220	T1A - 3Ø Secondary	MHT1A	
S7	B	2-500 kcmil AL/Ø	220	T1A - 1Ø Secondary	MHT1A	
S8	B	2-500 kcmil AL	15	T1B - 3Ø 167 kVA X1	T1B - 3Ø 50 kVA X3	
S9	B	2-500 kcmil AL/Ø	330	T1B - 3Ø Secondary	PB3	MHT1B
S10	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	285	T1B - 1Ø Secondary	PB2	MHT1B
S11	C	1-500 kcmil AL/Ø	125	PB1	Theatre	PB1
S12	B	2-500 kcmil AL	15	T2 - 3Ø 167 kVA X1	T2 - 3Ø 50 kVA X3	
S13	B	2-500 kcmil AL/Ø	175	T2 - 3Ø Secondary	PB6	MHT2
S14	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	175	T2 - 1Ø Secondary	PB6	MHT2
S15	B	2-500 kcmil AL/Ø	210	MHT2	PB8	PB7
S16	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	215	MHT2	PB8	PB7
S17	B	1-750 kcmil AL/Ø	65	PB7	801 Front St	
S18	C	1-500 kcmil AL/Ø	60	PB8	807 Front St	
S19	B	2-500 kcmil AL	15	T3 - 3Ø 100 kVA X1	T3 - 3Ø 50 kVA X3	
S20	B	2-500 kcmil AL/Ø	290	T3 - 3Ø Secondary	PB9	MHT3
S21	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	295	T3 - 1Ø Secondary	PB9	MHT3
S22	B	2-500 kcmil AL/Ø	180	MHT3	PB10	
S23	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	180	MHT3	PB10	
S24	C	1-500 kcmil AL/leg 1-350 kcmil AL/N	65	PB9	829 Front St	
S25	B	2-500 kcmil AL	15	T4 - 3Ø 100 kVA X1	T4 - 3Ø 50 kVA X3	
S26	B	2-500 kcmil AL/Ø	320	T4 - 3Ø Secondary	PB14	MHT4A
S27	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	305	T4 - 1Ø Secondary	MHT4B	MHT4A
S28	B	1-500 kcmil AL/Ø	150	T4 - 3Ø Secondary	PB11	
S29	B	1-500 kcmil AL/leg 1-350 kcmil AL/N	155	T4 - 1Ø Secondary	PB11	
S33	C	1-4/0 AWG AL/leg 1-2/0 AWG AL/N	50	MHT2	Rover Tours	
S34	C	1-4/0 AWG AL/leg 1-2/0 AWG AL/N	105	MHT2	Harborwalk Service	
S35	B	1-500 kcmil AL	15	TM - 100 kVA X1	TM - 10 kVA X3	
S36	B	2-500 kcmil AL/Ø	90	MHT3	PB13	
S37	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	90	MHT3	PB13	
S38	B	2-500 kcmil AL/leg 1-350 kcmil AL/N	40	MHT4B	PB14	

Cable Type	Description																														
A	15 kV underground primary distribution cable. #1/0 AWG aluminum filled strand conductor. 19 strand, 5 x #14 AWG wire copper concentric neutral, 105°C rating, 175 mil EPR insulation, 90 mil density PE jacket.																														
B	600 volt single conductor secondary. UD. Stranded compressed aluminum conductor. XLPE insulation.																														
	<table border="1"> <thead> <tr> <th>Size</th> <th>Stranding</th> <th>Insulation Thickness</th> </tr> </thead> <tbody> <tr><td>#1/0 AWG</td><td>9</td><td>80 mils</td></tr> <tr><td>#4/0 AWG</td><td>18</td><td>80 mils</td></tr> <tr><td>350 kcmil</td><td>37</td><td>95 mils</td></tr> <tr><td>500 kcmil</td><td>37</td><td>95 mils</td></tr> <tr><td>750 kcmil</td><td>61</td><td>110 mils</td></tr> </tbody> </table>	Size	Stranding	Insulation Thickness	#1/0 AWG	9	80 mils	#4/0 AWG	18	80 mils	350 kcmil	37	95 mils	500 kcmil	37	95 mils	750 kcmil	61	110 mils												
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C	600 volt service conductor, triplex and quadripex. Stranded compressed aluminum conductor, XLPE insulation.																														
	<table border="1"> <thead> <tr> <th colspan="3">Phase Conductor</th> <th colspan="3">Neutral Conductor</th> </tr> <tr> <th>Size</th> <th>Stranding</th> <th>Insulation Thickness</th> <th>Size</th> <th>Stranding</th> <th>Insulation Thickness</th> </tr> </thead> <tbody> <tr><td>#4/0 AWG</td><td>18</td><td>80 mils</td><td>#2/0 AWG</td><td>11</td><td>80 mils</td></tr> <tr><td>350 kcmil</td><td>37</td><td>95 mils</td><td>#4/0 AWG</td><td>18</td><td>80 mils</td></tr> <tr><td>500 kcmil</td><td>37</td><td>95 mils</td><td>350 kcmil</td><td>37</td><td>95 mils</td></tr> </tbody> </table>	Phase Conductor			Neutral Conductor			Size	Stranding	Insulation Thickness	Size	Stranding	Insulation Thickness	#4/0 AWG	18	80 mils	#2/0 AWG	11	80 mils	350 kcmil	37	95 mils	#4/0 AWG	18	80 mils	500 kcmil	37	95 mils	350 kcmil	37	95 mils
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D	600 volt single conductor power cable, copper conductor, XLPE insulation, for use in streetlight or outlet services.																														
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<p style="text-align: center;">PRELIMINARY NOT TO BE USED FOR CONSTRUCTION</p>	
<p>REVISION 02/20/18</p>	<p>DATE 02/20/18</p>
<p>2 ADDENDUM 3</p>	<p>DATE 02/20/18</p>
<p>1 T4 DUCT & T3 ENCL</p>	<p>DATE 01/28/19</p>
<p>0 BID ISSUE</p>	<p>DATE 01/23/19</p>
<p>NO. REVISIONS</p>	<p>DATE</p>

CITY OF GEORGETOWN
GEORGETOWN, SC

FRONT STREET ELECTRICAL UPGRADE
CONDUIT AND CABLE SCHEDULE



UTILITY TECHNOLOGY
ENGINEERS - CONSULTANTS

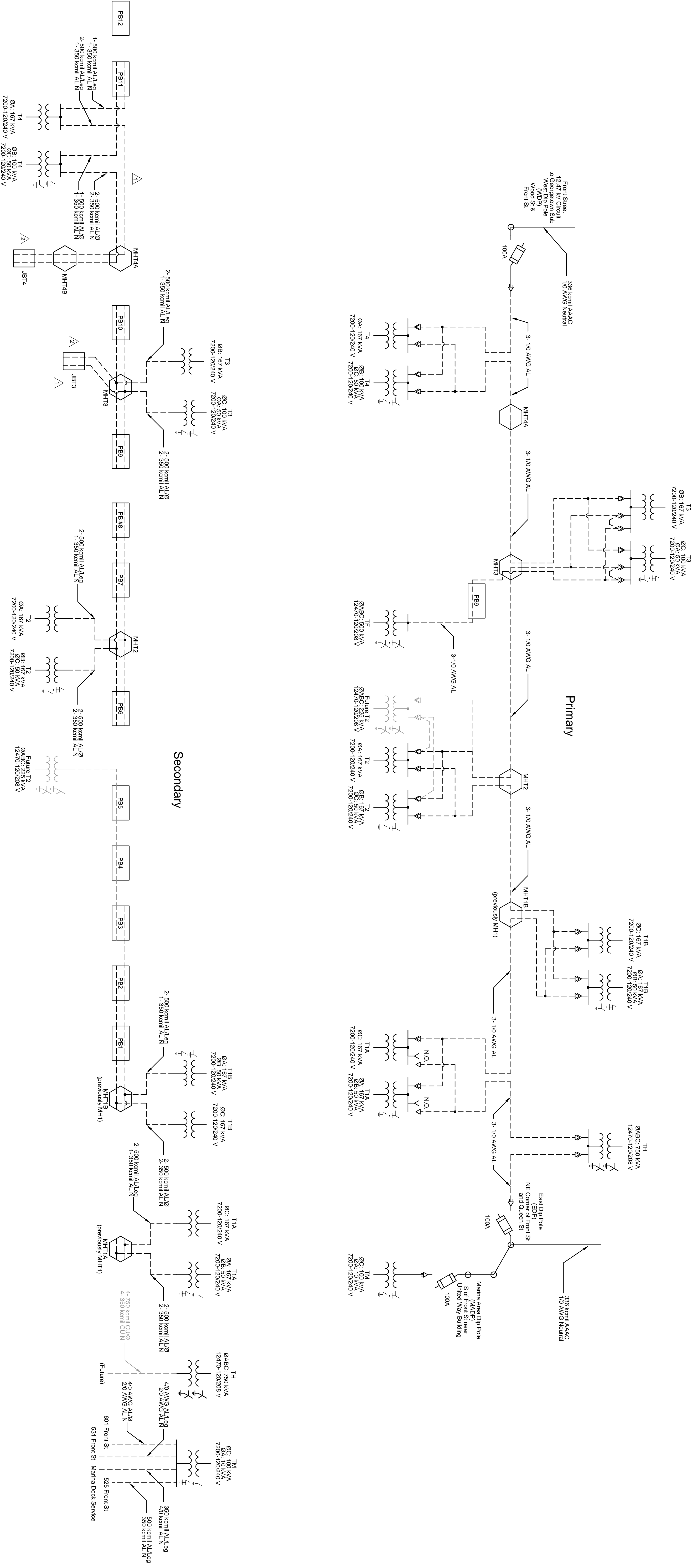
P.O. Box 2829 • Ashboro, North Carolina • 27204

E040

SCALE: NONE

DATE: 02/20/18

DWG. NO.: 1 OF 1



NO.	REVISIONS	DATE
0.	BID ISSUE	01/23/19
1.	14 DUCT & T5 ENCL	01/28/19
2.	ADDENDUM 3	02/20/19

CITY OF GEORGETOWN
 GEORGETOWN, SC

FRONT STREET ELECTRICAL UPGRADE
 ONE-LINE DIAGRAM
 NEW

UTEC
 ENGINEERS - CONSULTANTS

P.O. Box 2829 • Ashboro, North Carolina • 27204

DRAWN: MMS
 DATE: 02/19/19
 SCALE: NONE

REVISION: 02/19/19

DESIGNED: JWB
 DATE: 02/01/19
 SCALE: NONE

SHEET NO. **E100-2**
 2 OF 2

PRELIMINARY
 NOT TO BE USED
 FOR CONSTRUCTION