WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

VOLUME II - IFB DRAWINGS

REPLACEMENT OF FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING

CHILLER PLANT CWPA01

CONTRACT #FQ18004 - AUGUST 15, 2017

FINAL SUBMITTAL

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

CONSULTANT DESIGN TEAM

DESIGN LEAD
GANNETT FLEMING / PARSONS
800 I STREET N.W.
WASHINGTON, DC
202-969-3177

CIVIL
iDESIGN ENGINEERING, INC.
12057A TECH ROAD
SILVER SPRING, MD
301-234-6234

STRUCTURAL
LEUTERIO THOMAS, LLC
6710 OXON HILL ROAD, SUITE 310
OXON HILL, MD
301-203-1784

EQUIPMENT

PLUMBING

ELECTRICAL
GANNETT FLEMING/PARSONS
800 I STREET N.W.
WASHINGTON, DC
202-969-3177

LEED

HAZARDOUS MATERIALS

MAINTENANCE OF TRAFFIC
GANNETT FLEMING / PARSONS
800 I STREET N.W.
WASHINGTON, DC
202-969-3177

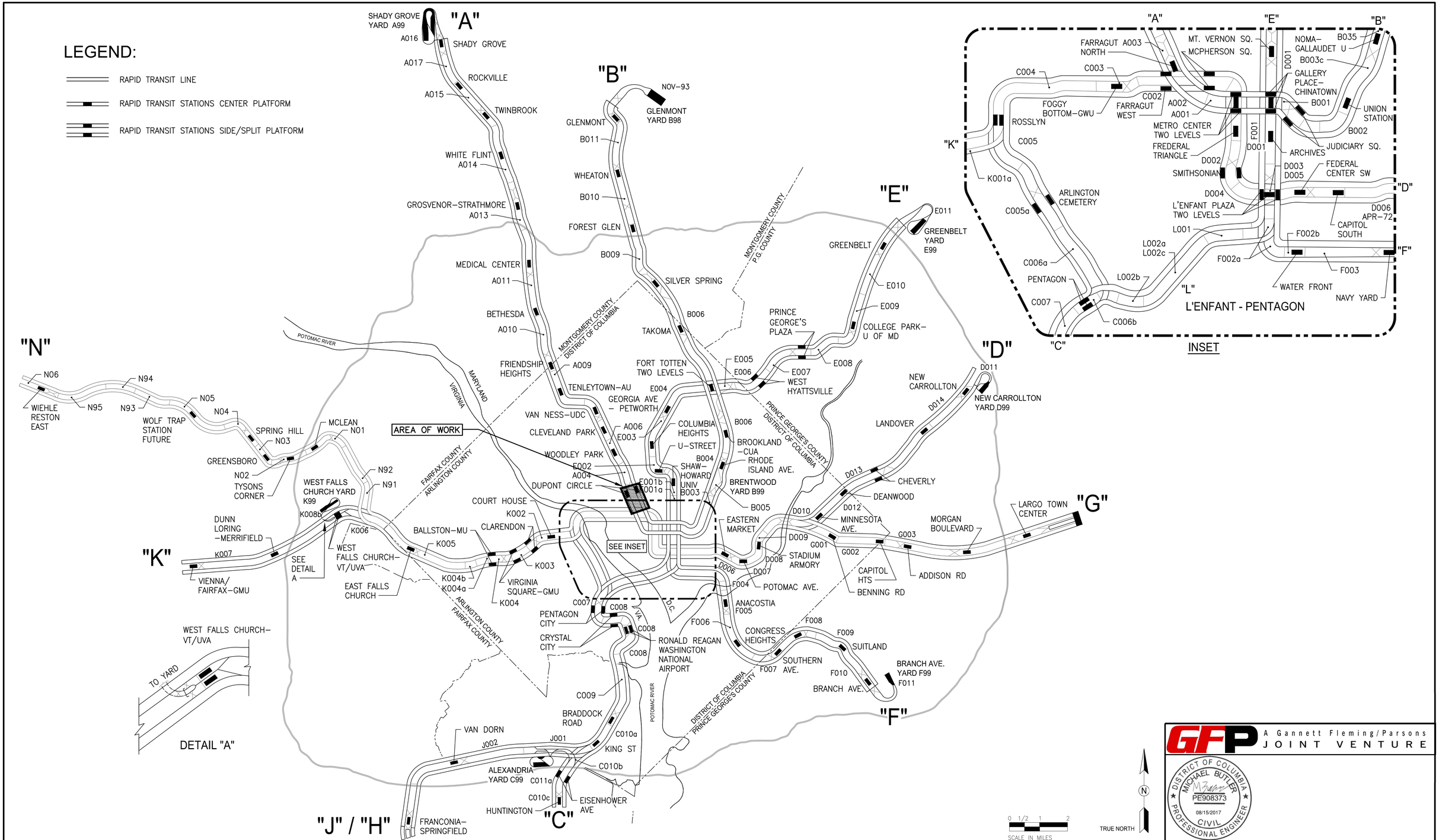
ARCHITECTURAL
LEUTERIO THOMAS, LLC
6710 OXON HILL ROAD, SUITE 310
OXON HILL, MD
301-203-1784

FIRE PROTECTION

MECHANICAL
GANNETT FLEMING/PARSONS
800 I STREET N.W.
WASHINGTON, DC
202-969-3177

TELECOMMUNICATIONS

GEOTECHNICAL



DESIGNED	M. BUTLER	05/11/17 DATE
DRAWN	Y. MCAFEE	05/11/17 DATE
CHECKED	M. BUTLER	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 08/15/2017 DATE

08/15/2017 DATE

REPLACEMENT OF FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING SYSTEM MAP

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-G-001	01 of 53

INDEX OF DRAWINGS

DRAWING NO	SHEET NO.	TITLE
–	–	COVER SHEET
CWPA01–G–001	01 OF 53	SYSTEM MAP
CWPA01–G–002	02 OF 53	DRAWING INDEX & GENERAL LEGEND
CWPA01–G–003	03 OF 53	KEY PLAN
CWPA01–C–001	04 OF 53	CIVIL – NOTES, ABBREVIATIONS AND LEGEND
CWPA01–C–101	05 OF 53	EXISTING CONDITIONS – SHEET 1 OF 2
CWPA01–C–102	06 OF 53	EXISTING CONDITIONS – SHEET 2 OF 2
CWPA01–C–103	07 OF 53	CIVIL – CONDENSER PIPING PLAN
CWPA01–C–104	08 OF 53	CIVIL – PAVEMENT RESURFACING PLAN
CWPA01–C–105	09 OF 53	CIVIL – PAVEMENT MARKING PLAN
CWPA01–C–106	10 OF 53	CIVIL – CONDENSER PIPING PROFILES
CWPA01–C–107	11 OF 53	CIVIL – TRENCH DETAILS
CWPA01–C–108	12 OF 53	CIVIL – THRUST BLOCK DETAILS
CWPA01–C–109	13 OF 53	CIVIL – ROADWAY AND AIR BLOWOFF DETAILS
CWPA01–C–041	14 OF 53	EROSION AND SEDIMENT CONTROL NOTES & DETAILS
CWPA01–C–143	15 OF 53	EROSION AND SEDIMENT CONTROL PLAN
CWPA01–C–144	16 OF 53	EROSION AND SEDIMENT CONTROL PLAN
CWPA01–TM–001	17 OF 53	MAINTENANCE OF TRAFFIC NOTES
CWPA01–TM–002	18 OF 53	SUGGESTED SEQUENCE OF CONSTRUCTION
CWPA01–TM–101	19 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–102	20 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–103	21 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–104	22 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–105	23 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–106	24 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–107	25 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1A
CWPA01–TM–112	26 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1B
CWPA01–TM–113	27 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1B
CWPA01–TM–114	28 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1B
CWPA01–TM–115	29 OF 53	MAINTENANCE OF TRAFFIC PLAN – PHASE 1B
CWPA01–TM–121	30 OF 53	DETOUR PLAN – PHASE 1A
CWPA01–TM–122	31 OF 53	ALTERNATE ROUTE PLAN
CWPA01–TM–301	32 OF 53	MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS
CWPA01–TM–302	33 OF 53	MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS
CWPA01–S–001	34 OF 53	STRUCTURAL – GENERAL NOTES – SHEET 1 OF 2
CWPA01–S–002	35 OF 53	STRUCTURAL – GENERAL NOTES ABBREVIATIONS – SHEET 2 OF 2
CWPA01–S–101	36 OF 53	STRUCTURAL – 1101 CONNECTICUT AVE. PLAN & ELEVATION
CWPA01–S–102	37 OF 53	STRUCTURAL – WMATA CHILLER PLANT ROOF PLAN & ELEVATION
CWPA01–S–501	38 OF 53	STRUCTURAL – TYPICAL DETAILS & SECTIONS
CWPA01–A–001	39 OF 53	ARCHITECTURAL – NOTES, ABBREVIATIONS AND LEGEND
CWPA01–A–101	40 OF 53	ARCHITECTURAL – 1101 CONNECTICUT AVENUE SITE PLAN
CWPA01–A–501	41 OF 53	ARCHITECTURAL – SIDEWALK RESTORATION
CWPA01–A–502	42 OF 53	ARCHITECTURAL – WATERPROOFING DETAILS
CWPA01–M–001	43 OF 53	MECHANICAL – NOTES, ABBREVIATIONS AND LEGEND
CWPA01–M–101	44 OF 53	MECHANICAL – WMATA CHILLER PLANT – PLAN AND SECTION – DEMOLITION
CWPA01–M–102	45 OF 53	MECHANICAL – 1101 CONNECTICUT AVENUE – BASEMENT PLAN AND SECTION – DEMOLITION
CWPA01–M–103	46 OF 53	MECHANICAL – 1101 CONNECTICUT AVENUE – ROOF PLAN – DEMOLITION
CWPA01–M–104	47 OF 53	MECHANICAL – WMATA CHILLER PLANT – PLAN AND SECTIONS – NEW WORK
CWPA01–M–105	48 OF 53	MECHANICAL – 1101 CONNECTICUT AVENUE – BASEMENT PLAN AND SECTION – NEW WORK
CWPA01–M–106	49 OF 53	MECHANICAL – 1101 CONNECTICUT AVENUE – ROOF PLAN – NEW WORK
CWPA01–M–301	50 OF 53	MECHANICAL – 1101 CONNECTICUT AVENUE – ROOF SECTIONS – DEMOLITION
CWPA01–M–302	51 OF 53	MECHANICAL – 1101 CONNECTICUT AVENUE – ROOF SECTIONS – NEW WORK
CWPA01–M–501	52 OF 53	MECHANICAL – DETAILS AND EQUIPMENT SCHEDULE
CWPA01–E–101	53 OF 53	ELECTRICAL – 1101 CONNECTICUT AVENUE – BASEMENT PLAN AND SECTION – NEW WORK

REFERENCE DRAWINGS

DRAWING NO	SHEET NO.	TITLE
ST–C–072	–	WMATA STANDARD DRAWING – JOINT DETAILS FOR CONCRETE PAVEMENT
SURVEY–1	–	TOPOGRAPHIC SURVEY – 1 OF 4
SURVEY–2	–	TOPOGRAPHIC SURVEY – 2 OF 4
SURVEY–3	–	SUBSURFACE UTILITY SURVEY – 3 OF 4
SURVEY–4	–	SUBSURFACE UTILITY SURVEY – 4 OF 4

GENERAL LEGEND:

KEYED NOTE FOR DEMOLITION PLAN

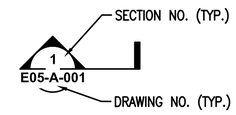
KEYED NOTE FOR NEW WORK PLAN

NEW WORK

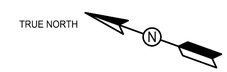
DEMOLITION WORK

(E) IN DISCIPLINE TO REMAIN

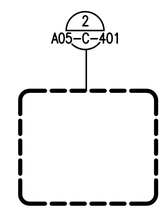
(E) OUT OF DISCIPLINE TO REMAIN



SECTION TAG



NORTH ARROW



ENLARGE PLAN AND SECTION TAB

TITLE – DETAIL/SECTION/ELEVATION

DISCLAIMER:
THESE DRAWINGS WERE CREATED USING AUTOCAD 2013 VERSION, FOLLOWING WMATA 2016 CAD STANDARDS.

ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED (V.I.F.). THE GENERAL CONTRACTOR TO COORDINATE AND VERIFY BEFORE CONSTRUCTION.

GFP A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA MICHAEL BUTLER PE908373 08/15/2017 CIVIL PROFESSIONAL ENGINEER

DESIGNED	M. BUTLER	05/11/17 DATE
DRAWN	Y. MCAFEE	05/11/17 DATE
CHECKED	M. BUTLER	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

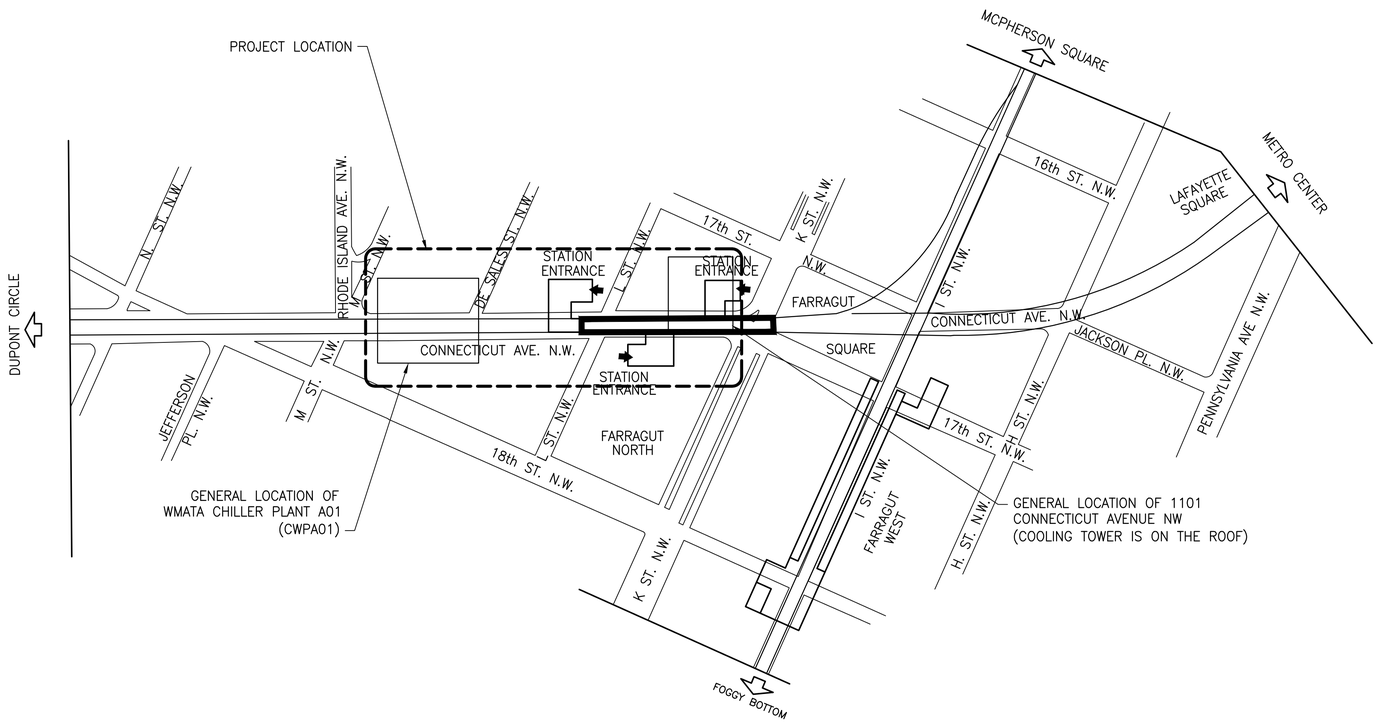
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 08/15/2017 DATE

08/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
DRAWING INDEX
& GENERAL LEGEND

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	NO SCALE	CWPA01-G-002	02 of 53



A02 – FARRAGUT NORTH

1001 CONNECTICUT AVENUE, NW, WASHINGTON, DC

1 KEY PLAN
CWPA01-G-003

NOT TO SCALE

TRUE NORTH

A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA PROFESSIONAL ENGINEER
MICHAEL BUTLER
PE908373
08/15/2017
CIVIL

DESIGNED	D. ROMNESS	05/11/17 DATE
DRAWN	Y. MCAFEE	05/11/17 DATE
CHECKED	M. BUTLER	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

08/15/2017 DATE

08/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
KEY PLAN

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	NOT TO SCALE	CWPA01-G-003	03 of 53

LEGEND

	EXISTING	PROPOSED
TRAFFIC SIGNAL		
ELECTRIC MANHOLE	E	
STORM DRAIN MANHOLE	STRM D	
SANITARY SEWER MANHOLE	SS	
UNIDENTIFIED MANHOLE	U M.H.	
WATER MANHOLE	W	
WATER VALVE	W WV	
SIGN		
LIGHT POLE		
FIRE HYDRANT		
TREE		
STANDPIPE		
CONTOUR	10	
WATER METER	W.M. W	
PARKING METER	PM	
SPOT ELEVATION	11.11	14.00
SAW CUT LINE		
16" DUCTILE IRON PIPE		
COMMUNICATIONS CONDUIT	COMM	
CONDENSER WATER RETURN PIPE	CWR	
CONDENSER WATER SUPPLY PIPE	CWS	
FIBER OPTIC CABLE	FO	
GAS LINE	GAS	
SANITARY SEWER	SAN	
STORM WATER SEWER	STM	
TRAFFIC SIGNAL CONDUIT	TFC	
ELECTRIC CONDUIT	UGE	UGE
WATER MAIN	WTR	

ABBREVIATIONS

BC	BOTTOM OF CURB
BLDG	BUILDING
BW	BOTTOM OF WALL
CIP	CURB INLET PROTECTION
COG	CORNER AT GRADE
CONC	CONCRETE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
DOEE	DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT
DDOT	DISTRICT DEPARTMENT OF TRANSPORTATION
E	EAST
EGR	EMERGENCY EGRESS DOOR
ELEC	ELECTRIC/ELECTRICAL
FLOW	FLOWLINE
GSA	GENERAL SERVICES ADMINISTRATION
MB	MAIL BOX
MH	MANHOLE
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NPS	NATIONAL PARK SERVICE
OAP	OPERATIONS ADMINISTRATIVE PROCEDURES
PGL	PROFILE GRADELINE
PLNTR	PLANTER
ROW	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SDWK	SIDEWALK
SOP	STANDARD OPERATING PROCEDURES
SS	SANITARY SEWER
SSWP	SITE SPECIFIC WORK PLAN
TC	TOP OF CURB
TPF	TREE PROTECTION FENCE
TRANS	TRANSVERSE
TW	TOP OF WALL
TYP	TYPICAL
W	WEST
W/	WITH
WMATA	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

CIVIL GENERAL NOTES

GENERAL NOTES

1. EXISTING SITE INFORMATION IS BASED ON A TOPOGRAPHIC FIELD SURVEY PERFORMED BY RICE ASSOCIATES, DATED 04/2017. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS TO MAXIMUM EXTENT PRACTICAL BEFORE COMMENCING DEMOLITION AND RECONSTRUCTION.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. HORIZONTAL DATUM BASED ON NAD '83.
4. VERTICAL DATUM BASED ON NAVD '88.

SITE CONSTRUCTION NOTES

1. CONTRACTOR MUST PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC PLAN AS REQUIRED FOR PROPOSED CONSTRUCTION. TRAFFIC PLAN SHALL BE IN ACCORDANCE WITH MOST RECENT VERSION OF THE DISTRICT DEPARTMENT OF TRANSPORTATIONS'S (DDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES" AND "DC TEMPORARY TRAFFIC CONTROL MANUAL".
2. CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN AS NECESSARY DURING CONSTRUCTION.
3. UNLESS OTHERWISE REQUIRED BY APPLICABLE PERMIT OR AGENCY, OR UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS IN ACCORDANCE WITH THE MOST RECENT VERSION OF DDOT'S "STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES".
4. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF APPLICABLE REGULATING AGENCIES FOR CONSTRUCTION WORK AND DC DEPARTMENT OF ENERGY AND ENVIRONMENT (DOEE), "2003 DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION AND SEDIMENT CONTROL" AND THE DISTRICT' OF COLUMBIA "EROSION AND SEDIMENT CONTROL HANDBOOK" FOR EROSION AND SEDIMENT CONTROL.
5. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMIT(S) AND PAY REQUIRED FEES PRIOR TO COMMENCING ANY CONSTRUCTION.
6. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC WORK PLAN (SSWP) IN ACCORDANCE WITH WMATA'S MOST RECENT OPERATIONS ADMINISTRATIVE PROCEDURES (OAP'S) FOR SSWP'S AND ALL APPLICABLE STANDARD OPERATING PROCEDURES (SOP'S).
7. THE CONTRACTOR SHALL NOT BLOCK ANY PAY PARKING METERS.

GRADING NOTES

1. CONTOUR INTERVAL IS ONE FOOT (1').

GFP A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA QIONG WANG No. PE 907084 8/15/2017 CIVIL PROFESSIONAL ENGINEER

DESIGNED	M. ABEL	03/16/17 DATE
DRAWN	H. ZHOU	05/30/17 DATE
CHECKED	J. WANG	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

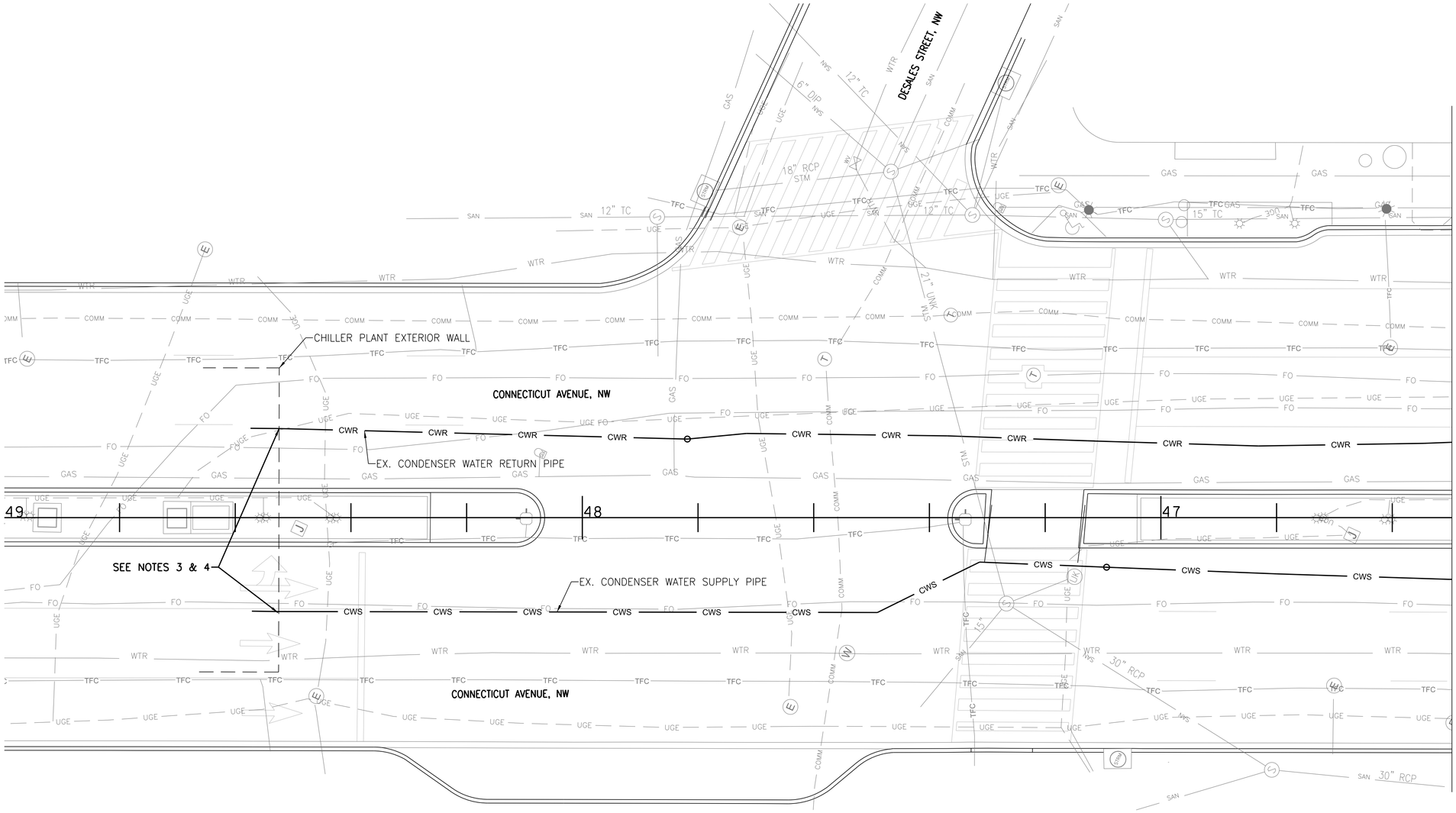
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 8/15/2017 DATE

8/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
CIVIL - NOTES, ABBREVIATIONS AND LEGEND

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-C-001	04 of 53



1 EXISTING CONDITION PLAN
CWPA01-C-101

SCALE: 1" = 10'

NOTES:

1. SEE SHEET NO. C-001 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
2. SUBSURFACE UTILITIES HAVE BEEN LOCATED USING NON-DESTRUCTIVE METHODS, FIELD CONDITIONS MAY WARRANT FURTHER EXCAVATION OR TEST PITTING.
3. SEE STRUCTURAL DRAWINGS FOR CHILLER PLANT PENETRATION.
4. SEE MECHANICAL DRAWINGS FOR PIPE ROUTING WITHIN CHILLER PLANT.

TRUE NORTH
PLAN NORTH

GFP A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA QIONG WANG No. PE 907084 8/15/2017 CIVIL PROFESSIONAL ENGINEER

DESIGNED	M. ABEL	03/16/17 DATE
DRAWN	H. ZHOU	05/30/17 DATE
CHECKED	J. WANG	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

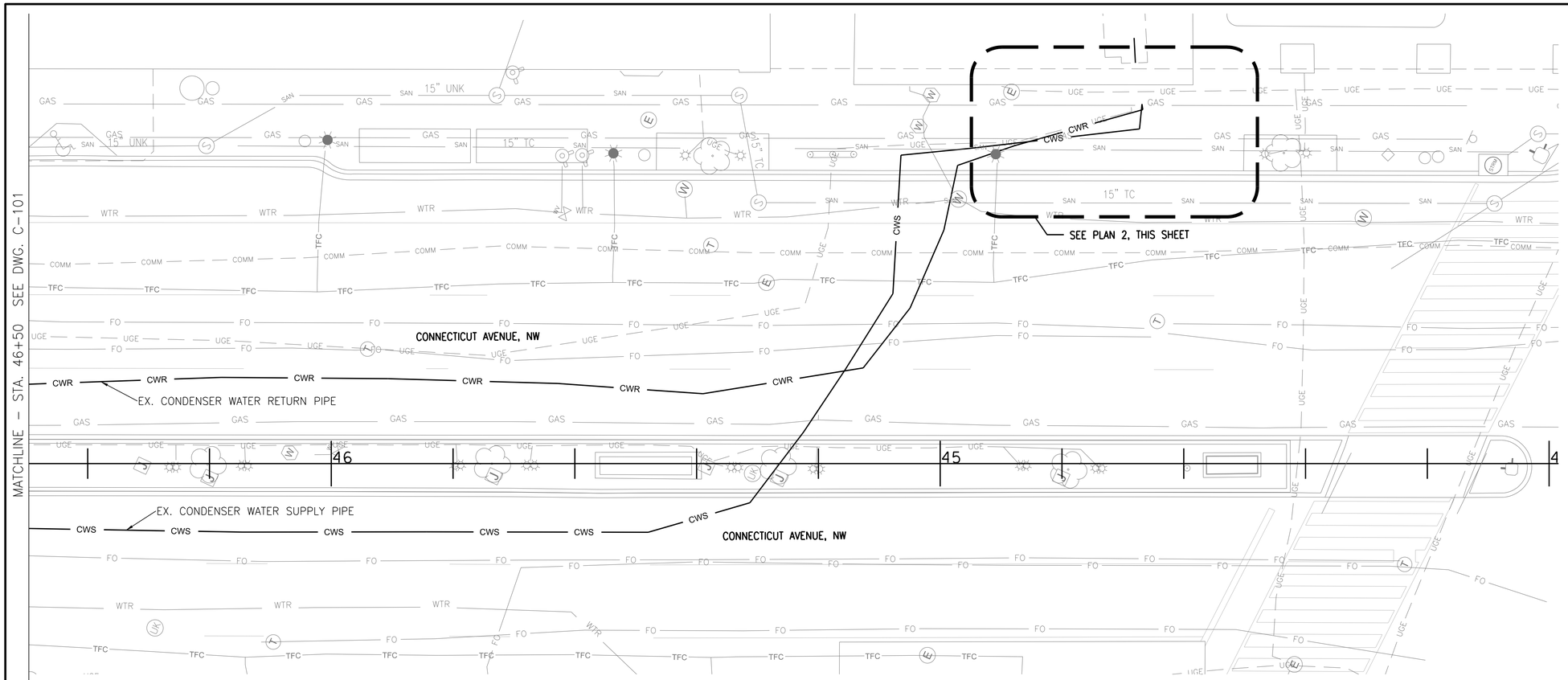
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 8/15/2017 DATE

8/15/2017 DATE

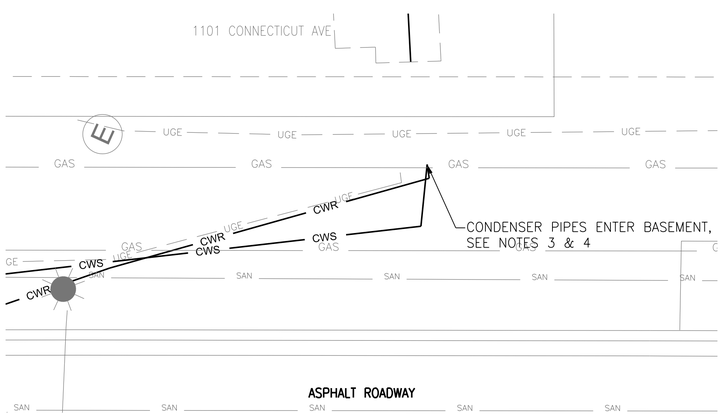
REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
EXISTING CONDITION
SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-C-101	05 of 53



1 EXISTING CONDITION PLAN
CWPA01-C-102

SCALE: 1" = 10'



2 EXISTING CONDITION PLAN
CWPA01-C-102

SCALE: 1" = 5'

NOTES:

1. SEE SHEET NO. C-001 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
2. SUBSURFACE UTILITIES HAVE BEEN LOCATED USING NON-DESTRUCTIVE METHODS, FIELD CONDITIONS MAY WARRANT FURTHER EXCAVATION OR TEST PITTING.
3. SEE STRUCTURAL DRAWINGS FOR BASEMENT PENETRATION.
4. SEE MECHANICAL DRAWINGS FOR PIPE ROUTING WITHIN 1101 CONNECTICUT AVE.

TRUE NORTH
PLAN NORTH

A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA
QIONG WANG
No. PE 907084
8/15/2017
CIVIL
PROFESSIONAL ENGINEER

DESIGNED	M. ABEL	03/16/17 DATE
DRAWN	H. ZHOU	05/30/17 DATE
CHECKED	J. WANG	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

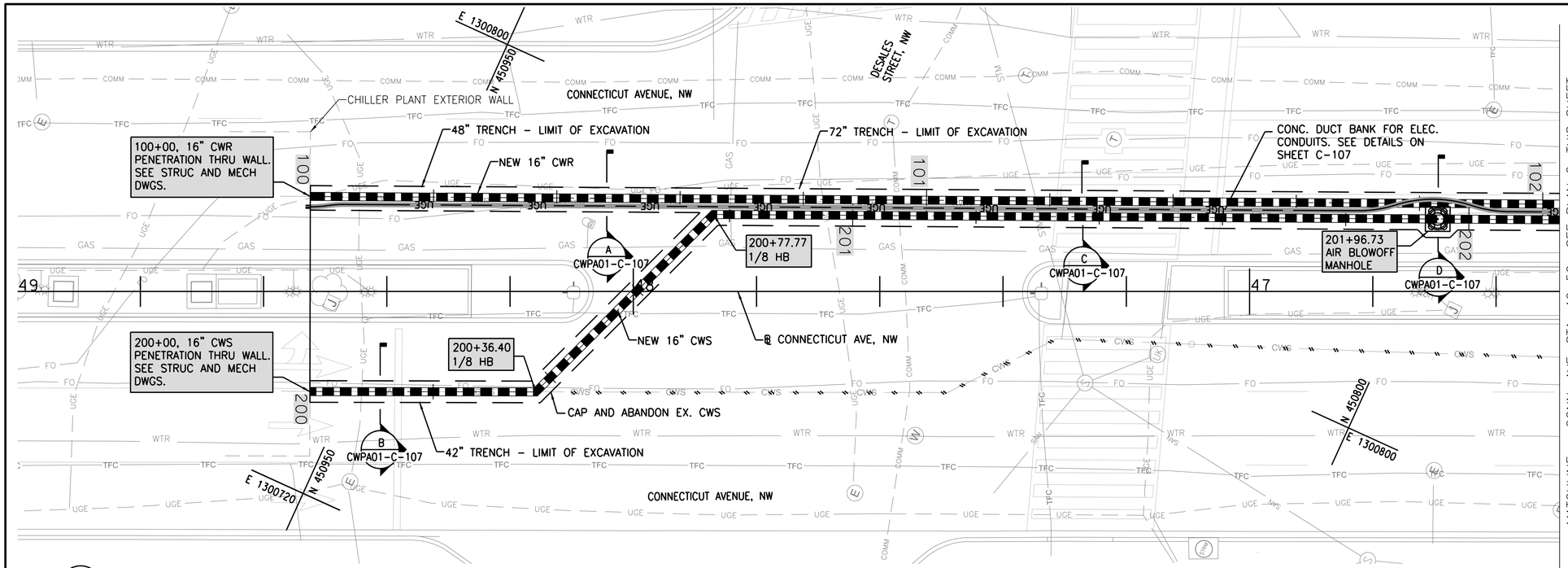
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

8/15/2017 DATE

8/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
EXISTING CONDITION
SHEET 2 OF 2

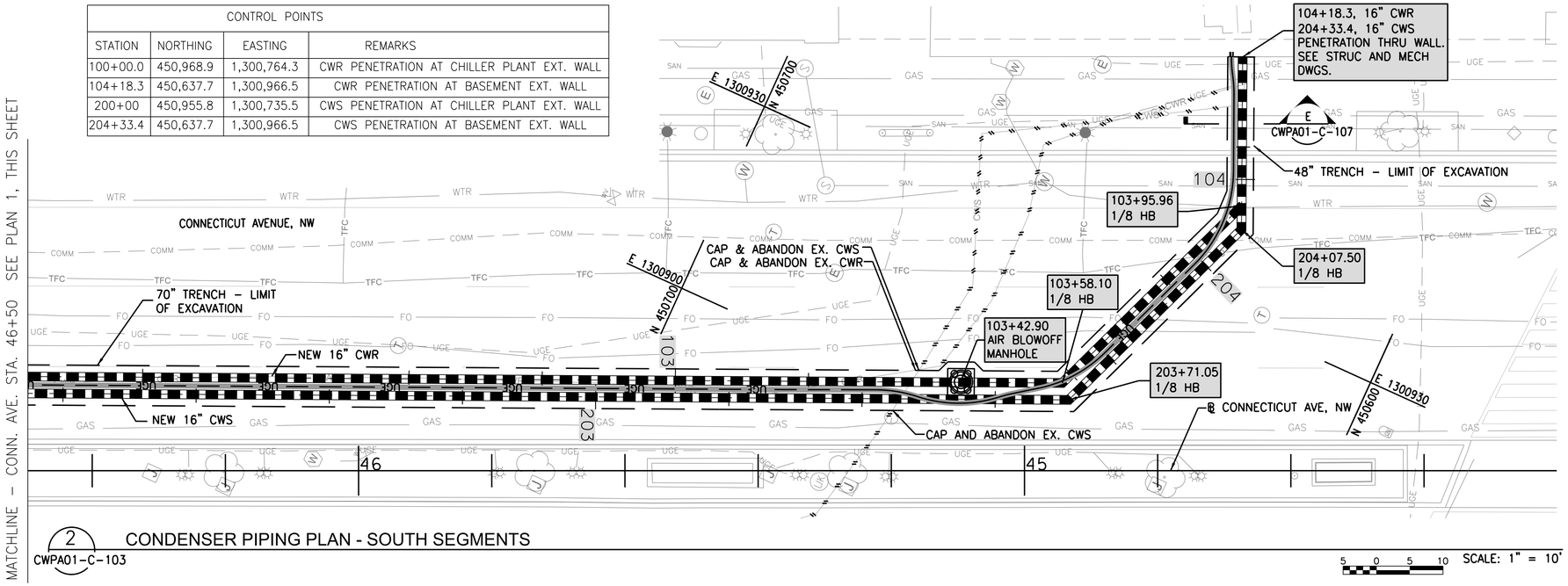
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-C-102	06 of 53



1 CONDENSER PIPING PLAN - NORTH SEGMENTS
CWPA01-C-103

SCALE: 1" = 10'

CONTROL POINTS			
STATION	NORTHING	EASTING	REMARKS
100+00.0	450,968.9	1,300,764.3	CWR PENETRATION AT CHILLER PLANT EXT. WALL
104+18.3	450,637.7	1,300,966.5	CWR PENETRATION AT BASEMENT EXT. WALL
200+00	450,955.8	1,300,735.5	CWS PENETRATION AT CHILLER PLANT EXT. WALL
204+33.4	450,637.7	1,300,966.5	CWS PENETRATION AT BASEMENT EXT. WALL



2 CONDENSER PIPING PLAN - SOUTH SEGMENTS
CWPA01-C-103

SCALE: 1" = 10'

TRUE NORTH
PLAN NORTH

NOTES:

1. SEE SHEET NO. C-001 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
2. SEE MECHANICAL DRAWINGS FOR PIPE, FITTING, AND INSTALLATION SPECIFICATIONS.
3. SEE MOT DRAWINGS FOR PHASING AND LANE CLOSURE DETAILS.
4. SEE STRUCTURAL DRAWINGS FOR CHILLER PLANT AND BASEMENT PENETRATIONS.
5. ALL CAPS FOR ABANDONING PIPES SHALL BE INSTALLED MINIMUM 12" FROM OUTSIDE FACE OF NEW CONDENSER PIPE.
6. SEE SHEET C-109 FOR AIR BLOWOFF MANHOLE DETAIL.

GFP A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA QIONG WANG No. PE 907084 8/15/2017 CIVIL PROFESSIONAL ENGINEER

DESIGNED	M. ABEL	03/16/17 DATE
DRAWN	H. ZHOU	05/30/17 DATE
CHECKED	J. WANG	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

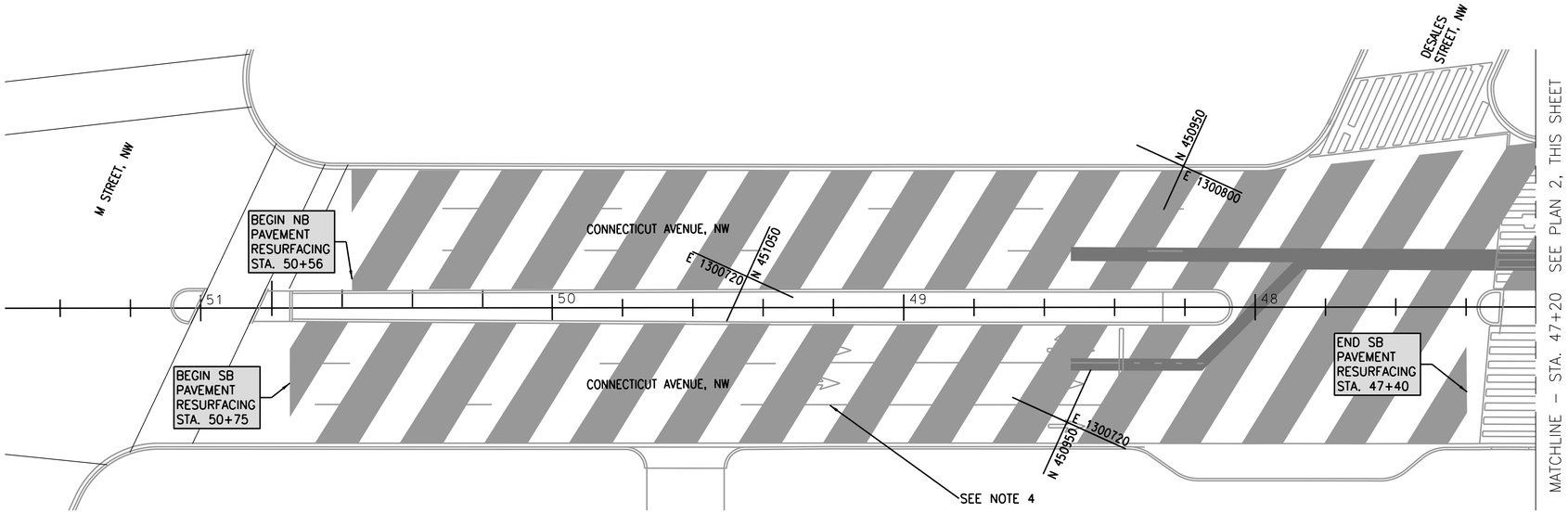
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 8/15/2017 DATE

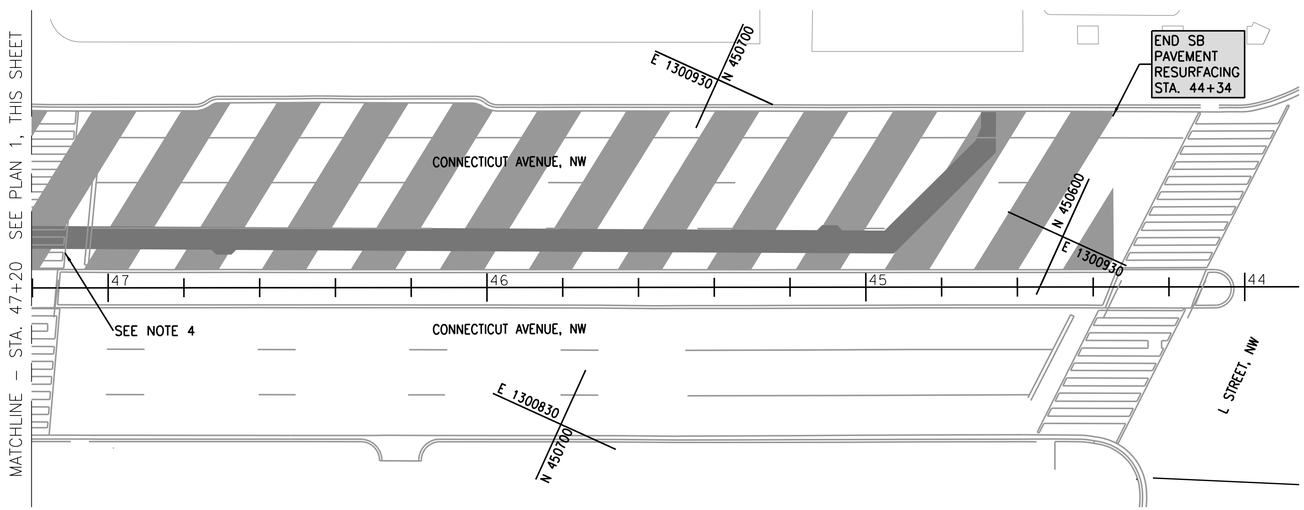
8/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
CIVIL - CONDENSER PIPING PLAN

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-C-103	07 of 53



1 PAVEMENT RESURFACING PLAN - NORTHERN SEGMENT
CWPA01-C-104
SCALE: 1" = 20' 10 0 10 20



2 PAVEMENT RESURFACING PLAN - SOUTHERN SEGEMENT
CWPA01-C-104
SCALE: 1" = 20' 10 0 10 20

NOTES:

1. SEE SHEET NO. C-001 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
2. SEE MECHANICAL SHEETS FOR PIPE, FITTING, INSTALLATION SPECIFICATIONS, AND BASEMENT DETAIL.
3. SEE MOT SHEETS FOR PHASING AND LANE CLOSURE DETAILS.
4. PAVEMENT RESTRIPING SHALL MATCH EXISTING. SEE SHEET CWPA01-C-105 FOR PAVEMENT MARKING PLAN.

CONTROL POINTS

STATION	NORTHING	EASTING	REMARKS
44+00.0	450,550.8	1,300,937.8	CONNECTICUT AVE. BASELINE
51+00.0	451,187.8	1,300,647.7	CONNECTICUT AVE. BASELINE

LEGEND

PAVEMENT RESURFACE

FULL DEPTH PAVEMENT

TRUE NORTH
PLAN NORTH

GFP A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA QIONG WANG No. PE 907084 8/15/2017 CIVIL PROFESSIONAL ENGINEER

DESIGNED	M. ABEL	03/16/17 DATE
DRAWN	H. ZHOU	05/30/17 DATE
CHECKED	J. WANG	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 8/15/2017 DATE

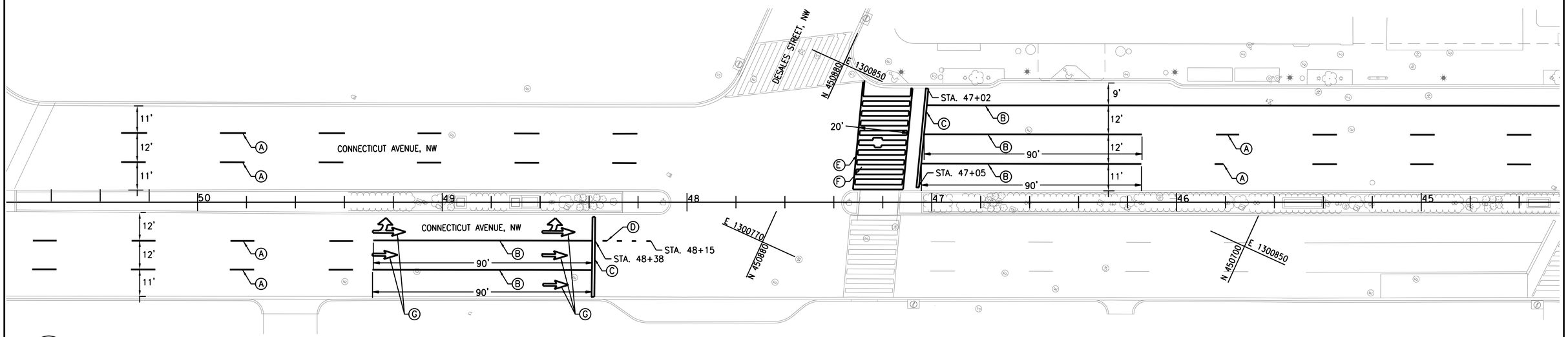
8/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
CIVIL - PAVEMENT MARKING PLAN

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-C-104	08 of 53

NOTES:

1. SEE SHEET NO. C-001 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.



1 PAVEMENT MARKING PLAN
CWPA01-C-105

10 0 10 20 SCALE: 1" = 20'

CONSTRUCTION DETAILS

(A) 4 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10' STRIPE / 30' GAP)
(B) 4 INCH WHITE SOLID LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING LINE
(C) 12 INCH WHITE LEAD PREFORMED THERMOPLASTIC PAVEMENT MARKING
(D) 4 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (3' STRIPE / 3' GAP)
(E) 4 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING
(F) 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (24" GAP OR MATCH EX.)
(G) WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS

TRUE NORTH
N
PLAN NORTH

GFP A Gannett Fleming/Parsons JOINT VENTURE

DISTRICT OF COLUMBIA
QIONG WANG
No. PE 907084
8/15/2017
CIVIL
PROFESSIONAL ENGINEER

DESIGNED	M. ABEL	03/16/17 DATE
DRAWN	H. ZHOU	05/30/17 DATE
CHECKED	J. WANG	08/15/17 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
08/15/17	0	FINAL SUBMITTAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

Mark H. Magnuson 8/15/2017 DATE

8/15/2017 DATE

REPLACEMENT OF
FARRAGUT NORTH & DUPONT CIRCLE CONDENSER PIPING
CIVIL
PAVEMENT MARKING PLAN

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1298	FQ-18004	AS NOTED	CWPA01-C-105	09 of 53