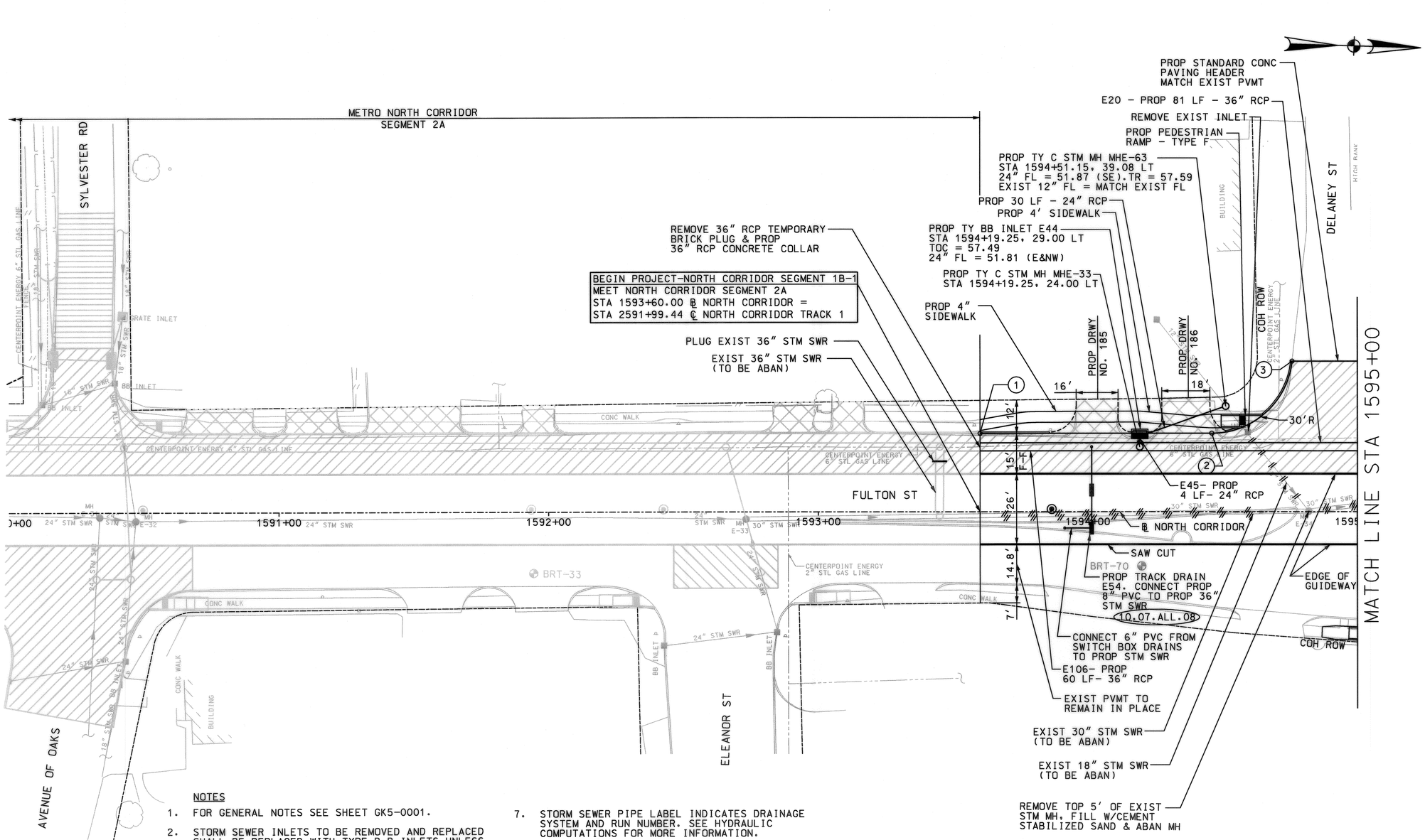

HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
- PROP OCS POLE
- PROP STREET CONST. 8" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0014)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 8" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TYPE B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0029 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0014 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB OR ASPHALT PAVEMENT EDGE. ELEVATIONS ARE TAKEN AT GUTTER LINE OR ASPHALT PAVEMENT EDGE.
9. SEE SHEET CD9-0007 AND CD9-0008 FOR LIMITS OF CUT & RESTORE PAVEMENT.
10. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
11. METRO OR ITS AGENTS TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.

POINT	STATION	OFFSET
1	1593+60.00	29.00 LT
2	1594+45.99	29.00 LT
3	1594+75.80	55.62 LT

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL C. MOSS — 91083 — LICENSED PROFESSIONAL ENGINEER

3/4/10

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 3/4/10

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO: 47003

CONTRACT SHEET No. 49 OF 276

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

STATE OF TEXAS — BRANDON NGUYEN — 94972 — LICENSED PROFESSIONAL ENGINEER

3/4/10

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT — HOUSTON RAPID TRANSIT JV

METRO Solutions — Metropolitan Transit Authority of Harris County, Texas

E. CONLEY	13 OCT 2009	
DRN BY	DATE	
B. NGUYEN	13 OCT 2009	
DRN CKD BY	DATE	
M. MOSS	13 OCT 2009	
DES BY	DATE	
B. NGUYEN	13 OCT 2009	
DES CKD BY	DATE	
B. CONE	13 OCT 2009	
APPROVED BY	DATE	
SCALE: 1" = 20'		

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1B

STREET MODIFICATION PLAN
FULTON STREET
BEGIN PROJECT TO STA 1595+00

CONTRACT NO. 0800120 DRAWING NO. CM6-0077 REV.

RELEASED FOR CONSTRUCTION JUN 03 2010

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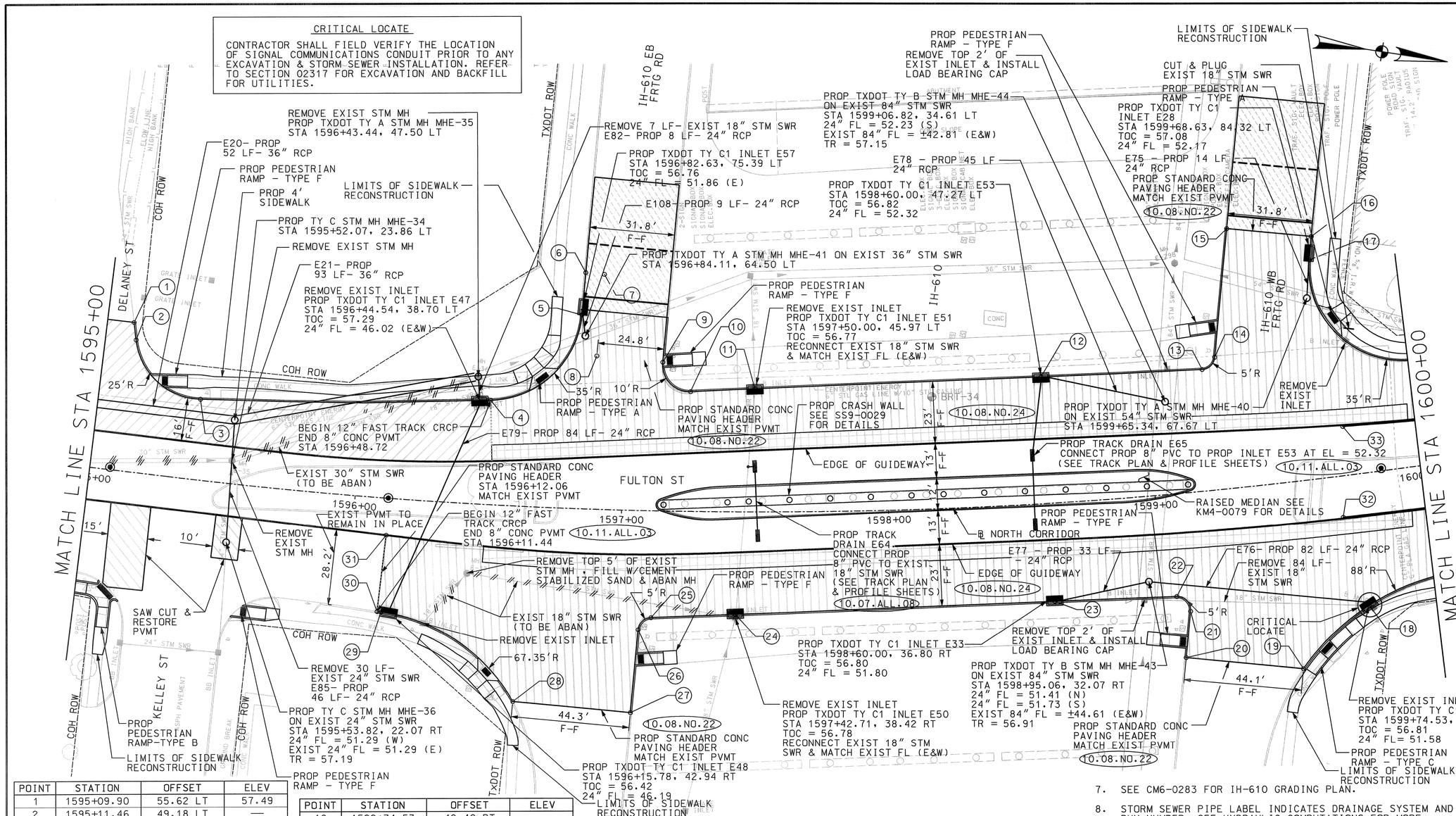

HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
- PROP OCS POLE
- PROP STREET CONST. 8" CONCRETE PVMT
- PROP STREET CONST. 12" FAST TRACK CRCP (SEE CD9-0025)
- PROP DRIVEWAY (SEE CD9-0014)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 8" CONCRETE PVMT (1)
- PROP REINFORCED PAVEMENT HEADER
- PROP PLATFORM
- COH DESIGN VARIANCE

POINT	STATION	OFFSET	ELEV
1	1595+09.90	55.62 LT	57.49
2	1595+11.46	49.18 LT	—
3	1595+38.21	30.15 LT	—
4	1596+48.72	39.00 LT	—
5	1596+82.46	72.38 LT	—
6	1596+83.37	88.39 LT	56.37
7	1596+90.71	87.99 LT	56.45
8	1596+88.80	57.16 LT	56.28
9	1597+14.35	55.51 LT	—
10	1597+25.23	44.76 LT	—
11	1597+49.97	45.97 LT	—
12	1598+60.00	47.27 LT	—
13	1599+22.06	45.26 LT	—
14	1599+27.36	49.31 LT	—
15	1599+37.11	96.99 LT	57.36
16	1599+69.99	90.50 LT	56.60
17	1599+68.09	81.81 LT	—

POINT	STATION	OFFSET	ELEV
18	1599+74.53	49.40 RT	—
19	1599+48.11	70.06 RT	—
20	1599+06.34	61.54 RT	56.91
21	1599+09.44	44.32 RT	—
22	1599+04.88	38.41 RT	—
23	1598+60.00	36.80 RT	—
24	1597+42.71	38.42 RT	—
25	1597+11.81	40.01 RT	—
26	1597+07.23	44.65 RT	—
27	1597+05.13	75.81 RT	56.87
28	1596+62.68	73.27 RT	56.11
29	1596+12.86	42.68 RT	—
30	1596+11.44	42.59 RT	—
31	1596+12.69	13.95 RT	—
32	1599+69.02	15.42 RT	—
33	1599+73.02	18.35 LT	—

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TYPE B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0029 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0014 FOR DRIVEWAY DETAILS.
7. SEE CM6-0283 FOR IH-610 GRADING PLAN.
8. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC CALCULATIONS FOR MORE INFORMATION.
9. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB OR ASPHALT PAVEMENT EDGE. ELEVATIONS ARE TAKEN AT GUTTER LINE OR ASPHALT PAVEMENT EDGE.
10. SEE SHEET CD9-0007 AND CD9-0008 FOR LIMITS OF CUT & RESTORE PAVEMENT.
11. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
12. METRO OR ITS AGENTS TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.
13. ANY TXDOT SIGNAL CONDUITS, LIGHT CONDUITS, OR COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEMS EQUIPMENT AND CONDUITS IN CONFLICT WITH PROPOSED CONSTRUCTION MUST BE RELOCATED OR NEWLY INSTALLED PER TXDOT'S STANDARDS AND SPECIFICATIONS. SEE EXISTING UTILITY PLAN AND PROFILE FOR MORE INFORMATION.

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL J. KASPAR — 103600 — LICENSED PROFESSIONAL ENGINEER — 04/11/11

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
CITY OF HOUSTON DWG NO:
47063

CONTRACT SHEET No. 51 OF 276

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	01/19/11	TxDOT DETAILS		✓	✓		MOE		OW

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

STATE OF TEXAS — BRANDON NGUYEN — 94972 — LICENSED PROFESSIONAL ENGINEER — 04/07/11

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT HOUSTON RAPID TRANSIT JV

METRO Solutions — Metropolitan Transit Authority of Harris County, Texas

E. CONLEY	13 OCT 2009
DRN BY	DATE
B. NGUYEN	13 OCT 2009
DRN CKD BY	DATE
M. MOSS	13 OCT 2009
DES BY	DATE
B. NGUYEN	13 OCT 2009
DES CKD BY	DATE
B. CONE	13 OCT 2009
APPROVED BY	DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR – SEGMENT 1B

STREET MODIFICATION PLAN
FULTON STREET
STA 1595+00 TO STA 1600+00

CONTRACT NO. 0800120 | DRAWING NO. CM6-0079 | REV. 1

RELEASED FOR CONSTRUCTION 5-4-2011

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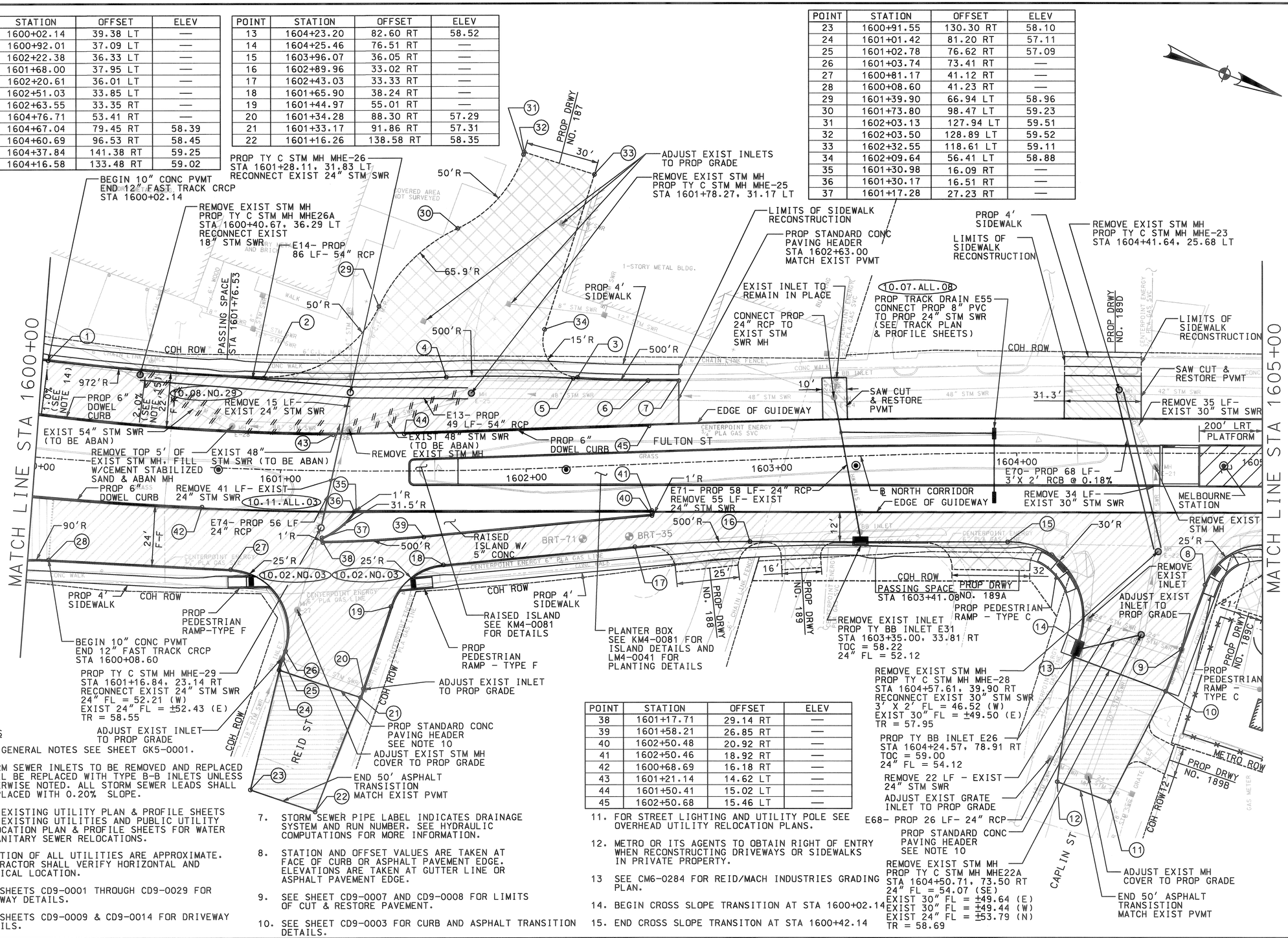
POINT	STATION	OFFSET	ELEV
1	1600+02.14	39.38 LT	—
2	1600+92.01	37.09 LT	—
3	1602+22.38	36.33 LT	—
4	1601+68.00	37.95 LT	—
5	1602+20.61	36.01 LT	—
6	1602+51.03	33.85 LT	—
7	1602+63.55	33.35 RT	—
8	1604+76.71	53.41 RT	—
9	1604+67.04	79.45 RT	58.39
10	1604+60.69	96.53 RT	58.45
11	1604+37.84	141.38 RT	59.25
12	1604+16.58	133.48 RT	59.02

POINT	STATION	OFFSET	ELEV
13	1604+23.20	82.60 RT	58.52
14	1604+25.46	76.51 RT	—
15	1603+96.07	36.05 RT	—
16	1602+89.96	33.02 RT	—
17	1602+43.03	33.33 RT	—
18	1601+65.90	38.24 RT	—
19	1601+44.97	55.01 RT	—
20	1601+34.28	88.30 RT	57.29
21	1601+33.17	91.86 RT	57.31
22	1601+16.26	138.58 RT	58.35

POINT	STATION	OFFSET	ELEV
23	1600+91.55	130.30 RT	58.10
24	1601+01.42	81.20 RT	57.11
25	1601+02.78	76.62 RT	57.09
26	1601+03.74	73.41 RT	—
27	1600+81.17	41.12 RT	—
28	1600+08.60	41.23 RT	—
29	1601+39.90	66.94 LT	58.96
30	1601+73.80	98.47 LT	59.23
31	1602+03.13	127.94 LT	59.51
32	1602+03.50	128.89 LT	59.52
33	1602+32.55	118.61 LT	59.11
34	1602+09.64	56.41 LT	58.88
35	1601+30.98	16.09 RT	—
36	1601+30.17	16.51 RT	—
37	1601+17.28	27.23 RT	—



HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
- PROP OCS POLE
- PROP STREET CONST. 10" CONCRETE PVMT
- PROP STREET CONST. 12" FAST TRACK CRCP (SEE CD9-0025)
- PROP DRIVEWAY (SEE CD9-0014)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 10" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TYPE B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0029 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0014 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB OR ASPHALT PAVEMENT EDGE. ELEVATIONS ARE TAKEN AT GUTTER LINE OR ASPHALT PAVEMENT EDGE.
9. SEE SHEET CD9-0007 AND CD9-0008 FOR LIMITS OF CUT & RESTORE PAVEMENT.
10. SEE SHEET CD9-0003 FOR CURB AND ASPHALT TRANSITION DETAILS.

POINT	STATION	OFFSET	ELEV
38	1601+17.71	29.14 RT	—
39	1601+58.21	26.85 RT	—
40	1602+50.48	20.92 RT	—
41	1602+50.46	18.92 RT	—
42	1600+68.69	16.18 RT	—
43	1601+21.14	14.62 LT	—
44	1601+50.41	15.02 LT	—
45	1602+50.68	15.46 LT	—

11. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
12. METRO OR ITS AGENTS TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.
13. SEE CM6-0284 FOR REID/MACH INDUSTRIES GRADING PLAN.
14. BEGIN CROSS SLOPE TRANSITION AT STA 1600+02.14
15. END CROSS SLOPE TRANSITON AT STA 1600+42.14

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL C. MOSS — 91083 — LICENSED — PROFESSIONAL ENGINEER

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 3/4/10

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO:

REGISTERED PROFESSIONAL ENGINEER — 47063 — TEXAS

CONTRACT SHEET No: 53 OF 276

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

STATE OF TEXAS — BRANDON NGUYEN — 94972 — LICENSED — PROFESSIONAL ENGINEER — 3/4/10

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT — HOUSTON RAPID TRANSIT JV

METRO Solutions — Metropolitan Transit Authority of Harris County, Texas

E. CONLEY	13 OCT 2009
DRN BY	DATE
B. NGUYEN	13 OCT 2009
DRN CKD BY	DATE
M. MOSS	13 OCT 2009
DES BY	DATE
B. NGUYEN	13 OCT 2009
DES CKD BY	DATE
B. CONE	13 OCT 2009
APPROVED BY	DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1B

STREET MODIFICATION PLAN
FULTON STREET
STA 1600+00 TO STA 1605+00

CONTRACT NO. 0800120 — DRAWING NO. CM6-0081 — REV.

RELEASED FOR CONSTRUCTION JUN 03 2010

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3/3/2010