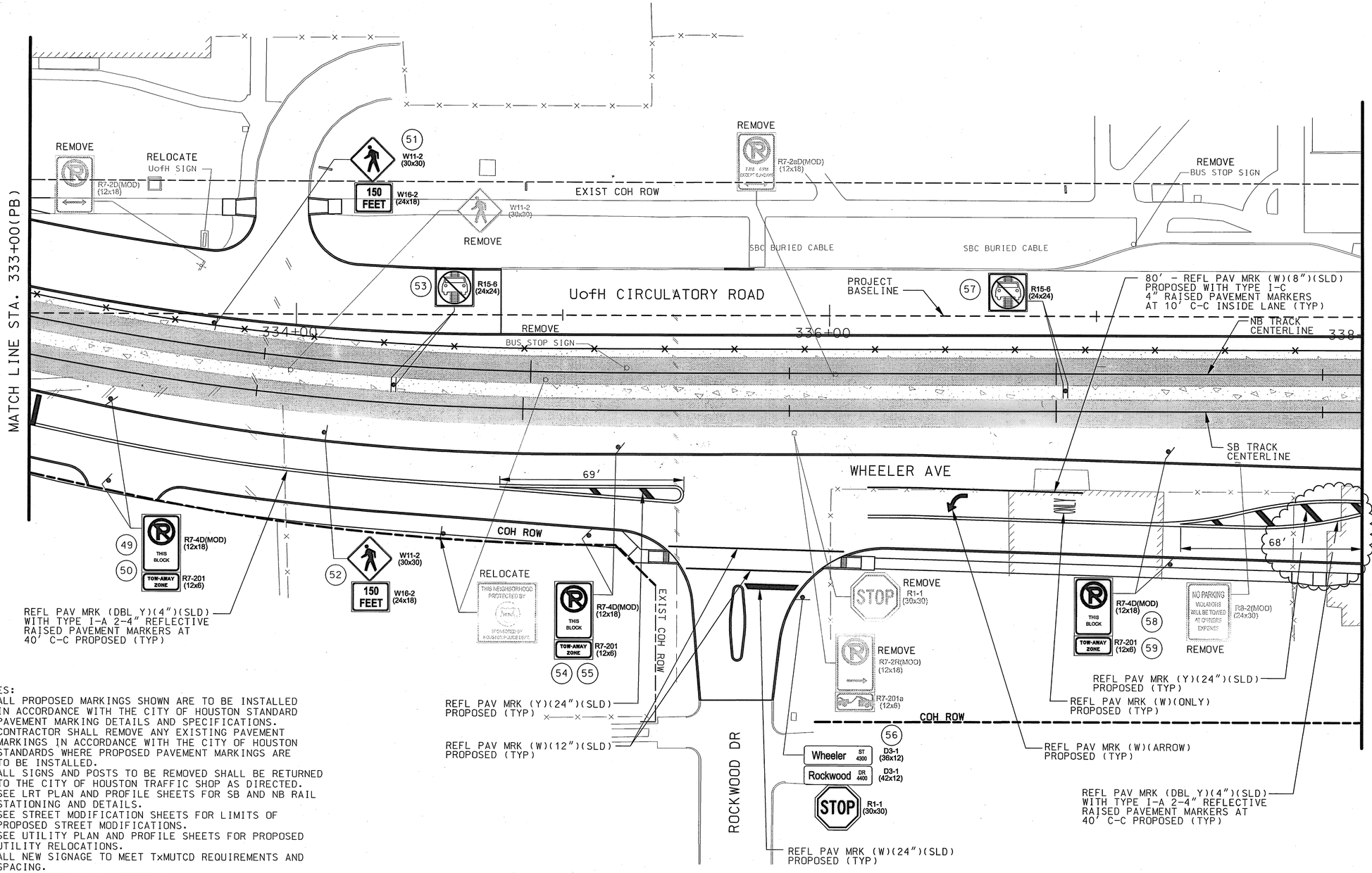


SCALE (IN FEET)
0 10 20 40

LEGEND
- EXISTING ROW
- PROPOSED ROW
- LRT TRACK ℄
- CROSSING GATE
- PROPOSED SIGN
- EXISTING SIGN

NOTES:
1. ALL PROPOSED MARKINGS SHOWN ARE TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD PAVEMENT MARKING DETAILS AND SPECIFICATIONS.
2. CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARDS WHERE PROPOSED PAVEMENT MARKINGS ARE TO BE INSTALLED.
3. ALL SIGNS AND POSTS TO BE REMOVED SHALL BE RETURNED TO THE CITY OF HOUSTON TRAFFIC SHOP AS DIRECTED.
4. SEE LRT PLAN AND PROFILE SHEETS FOR SB AND NB RAIL STATIONING AND DETAILS.
5. SEE STREET MODIFICATION SHEETS FOR LIMITS OF PROPOSED STREET MODIFICATIONS.
6. SEE UTILITY PLAN AND PROFILE SHEETS FOR PROPOSED UTILITY RELOCATIONS.
7. ALL NEW SIGNAGE TO MEET TxMUTCD REQUIREMENTS AND SPACING.
8. SEE TRAFFIC SIGNAL SHEETS FOR LAYOUTS OF PROPOSED SIGNAL IMPROVEMENTS AND SIGNAL RELATED SIGNS.

RELEASED FOR CONSTRUCTION 9-21-2011

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

THOMAS D. DUNCAN 46773 LICENSED PROFESSIONAL ENGINEER HOUSTON, TEXAS

CONTRACT SHEET NO 155 OF 462

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	04/25/11	RFR NO 00037-2A CURB RAMP MODIFICATIONS				AEH			

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

STATE OF TEXAS THOMAS D. DUNCAN 98353 LICENSED PROFESSIONAL ENGINEER 9/2/11
Lockwood, Andrews & Newnam Inc. ID # 2614

HRT HOUSTON RAPID TRANSIT JV

METRO Solutions
Going Places
Metropolitan Transit Authority of Harris County, Texas

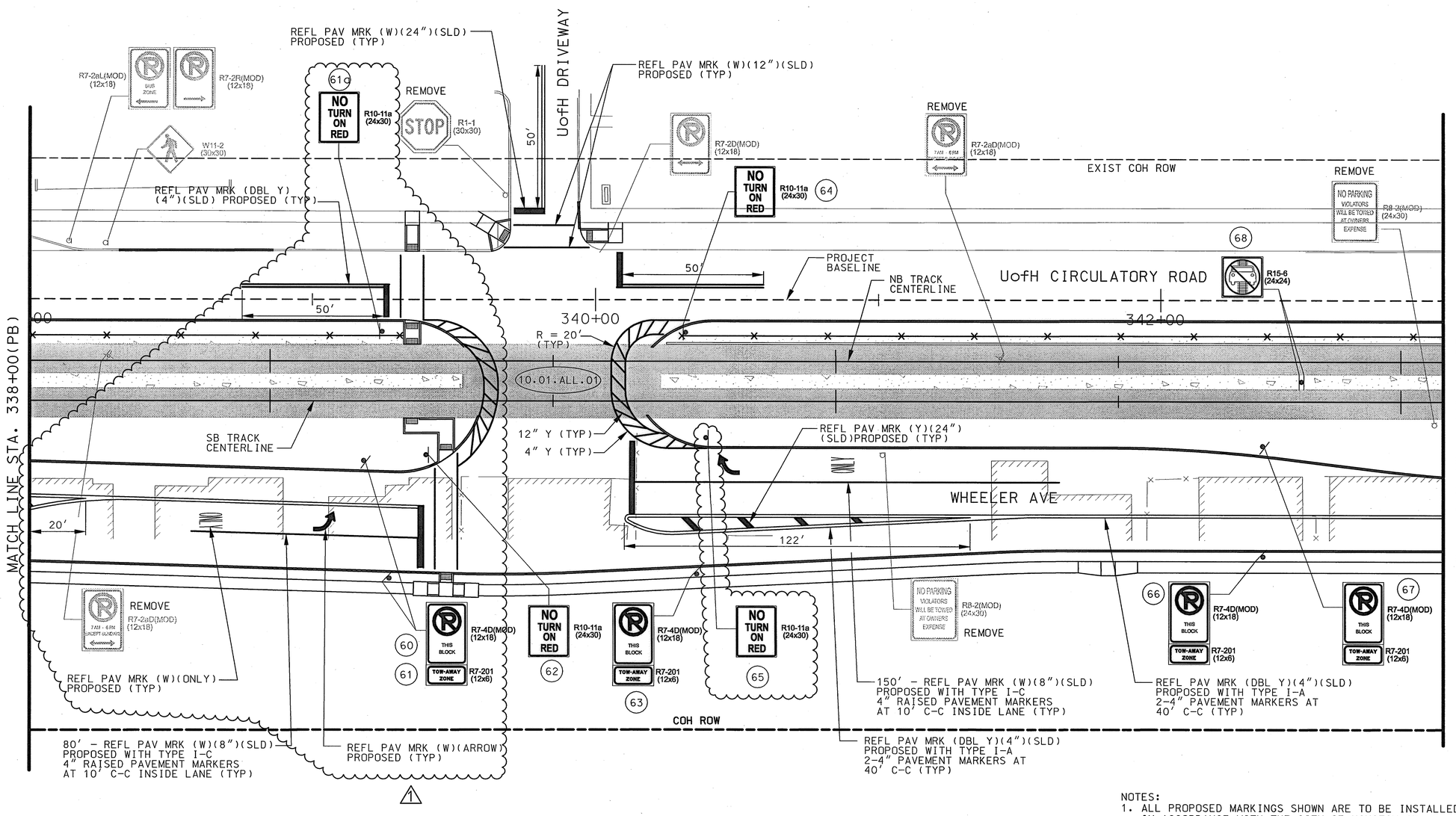
CADD	08/08/11
DRN BY	DATE
J.D.	08/08/11
DRN CKD BY	DATE
T.D.	08/08/11
DES BY	DATE
M.A.F.	08/08/11
DES CKD BY	DATE
C.E.R.	08/08/11
APPROVED BY	DATE
SCALE: AS SHOWN	

METRO SOLUTIONS SOUTHEAST CORRIDOR - 2A

SIGNING AND PAVEMENT MARKING STA 333+00 (PB) TO STA 338+00 (PB)

CONTRACT NO. CT0800120 | DRAWING NO. WC3-0048 | REV. 1

9/2/2011 ahelhout 10:24:20 AM
R:\120409\150-10118-000\Prod\5-0-Design-Reference\5-01 GEC Design\5-01-01 Drawings\05-Civil-Traffic\SEGMENT 2A\SEC4WM037aREV1.dgn



SCALE (IN FEET)
0 10 20 40

LEGEND
- EXISTING ROW
- PROPOSED ROW
- LRT TRACK ℄
- CROSSING GATE
- PROPOSED SIGN
- EXISTING SIGN

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5. SEE STREET MODIFICATION SHEETS FOR LIMITS OF PROPOSED STREET MODIFICATIONS.
6. SEE UTILITY PLAN AND PROFILE SHEETS FOR PROPOSED UTILITY RELOCATIONS.
7. ALL NEW SIGNAGE TO MEET TxMUTCD REQUIREMENTS AND SPACING.
8. SEE TRAFFIC SIGNAL SHEETS FOR LAYOUTS OF PROPOSED SIGNAL IMPROVEMENTS AND SIGNAL RELATED SIGNS.
9. 10.01.ALL.01 REFERS TO THE CITY OF HOUSTON APPROVED VARIANCE FOR MEDIAN NOSE.

RELEASED FOR CONSTRUCTION 9-21-2011

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

46773

CONTRACT SHEET NO 156 OF 462

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	04/25/11	RFR NO 00037-2A CURB RAMP MODIFICATIONS				REH	TD		JVL

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

STATE OF TEXAS
THOMAS D. DUNCAN
98353
LICENSED PROFESSIONAL ENGINEER
9/2/11
Lockwood, Andrews & Newnam Inc.
ID # 2614

HRT
HOUSTON
RAPID TRANSIT JV

METRO Solutions

CADD	08/08/11 DATE
DRN BY J.O.	08/08/11 DATE
DRN CKD BY T.D.	08/08/11 DATE
DES BY M.A.F.	08/08/11 DATE
DES CKD BY C.E.R.	08/08/11 DATE
APPROVED BY	DATE
SCALE: AS SHOWN	

METRO SOLUTIONS SOUTHEAST CORRIDOR - 2A

SIGNING AND PAVEMENT MARKING STA 338+00 (PB) TO STA 343+00 (PB)

CONTRACT NO. CT0800120 | DRAWING NO. WC3-0049 | REV. 1

R:\20409\150-10118-000\Prod\5•0•Design-Reference\5•01 GEC Design\5•01•01 Drawings\05-Civil-Traffic\SEGMENT 2A\SEC-WM037BREV1.dgn
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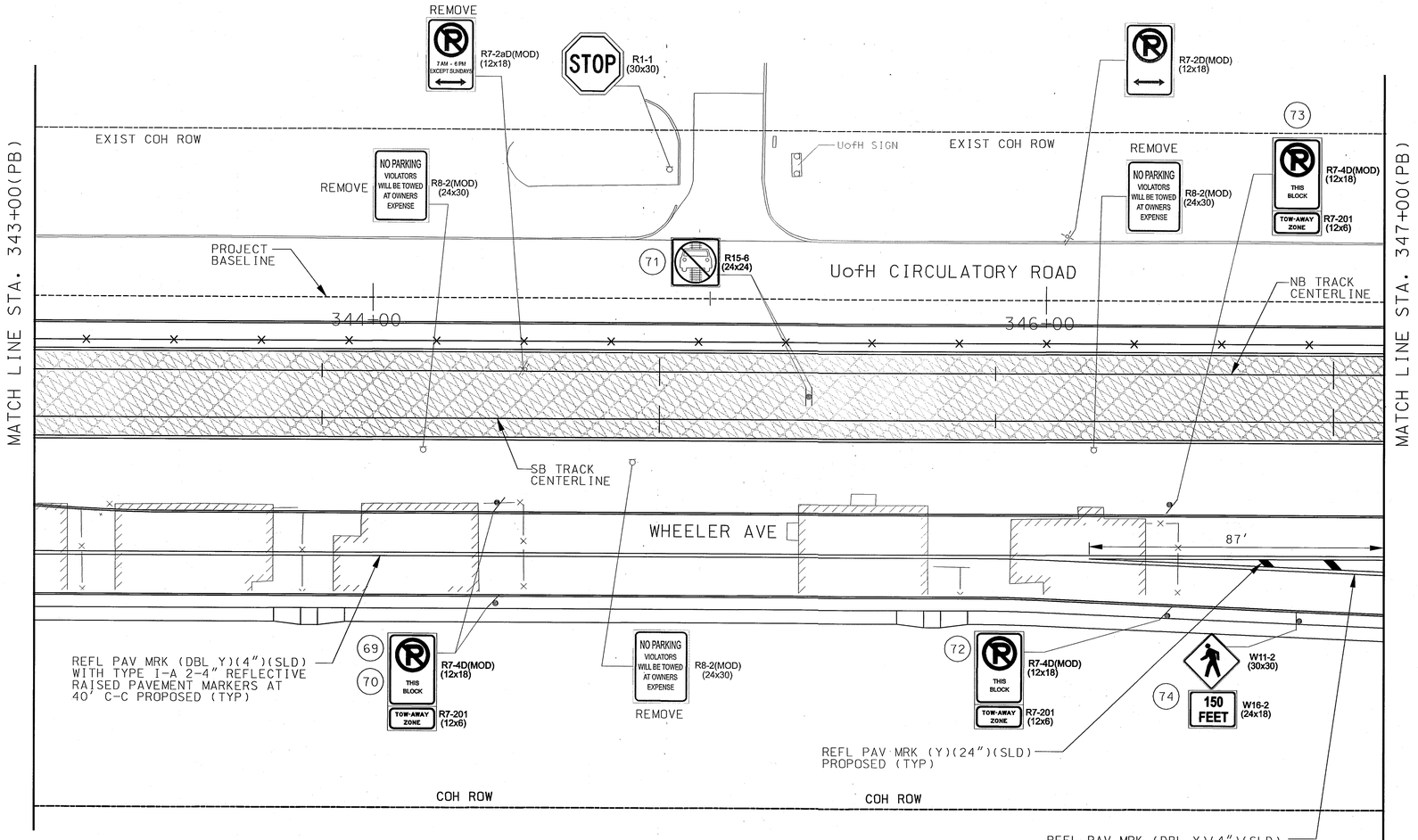
WM-0006



SCALE (IN FEET)
0 10 20 40

LEGEND
- EXISTING ROW
- PROPOSED ROW
- LRT TRACK ℄
- CROSSING GATE
- PROPOSED SIGN
- EXISTING SIGN

NOTES:
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7. ALL NEW SIGNAGE TO MEET TxMUTCD REQUIREMENTS AND SPACING.
8. SEE TRAFFIC SIGNAL SHEETS FOR LAYOUTS OF PROPOSED SIGNAL IMPROVEMENTS AND SIGNAL RELATED SIGNS.

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

STATE OF TEXAS
THOMAS D. DUNCAN
98353
LICENSED PROFESSIONAL ENGINEER
12/7/09
Lockwood, Andrews & Newnam Inc.
ID # 2614

HRT
HOUSTON RAPID TRANSIT JV

METRO Solutions
Going Places
Metropolitan Transit Authority of Harris County, Texas

CADD		12/07/09
DRN BY	J.O.	DATE 12/07/09
DRN CKD BY	T.D.	DATE 12/07/09
DES BY	M.A.F.	DATE 12/07/09
DES CKD BY	C.E.R.	DATE 12/07/09
APPROVED BY		DATE

SCALE: AS SHOWN

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STREET & BRIDGE ENGINEERING

WAYNE GAUDIN C.O.H. - SR. P.M.

46773
REGISTERED PROFESSIONAL ENGINEER

MAR 0 9 2010
RELEASED FOR CONSTRUCTION

CONTRACT SHEET NO 157 OF 462

METRO SOLUTIONS SOUTHEAST CORRIDOR - 2A

SIGNING AND PAVEMENT MARKING STA 343+00 (PB) TO STA 347+00 (PB)

CONTRACT NO.	CT0800120	DRAWING NO.	WC3-0050	REV.

12/4/2009 10:03:00 AM JLOrtega
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WM-0007

MATCH LINE STA. 347+00(PB)

MATCH LINE STA. 352+00(PB)

STOP R1-1 (30x30)

EXIST COH ROW

REMOVE BUS STOP SIGN

PROJECT BASELINE

UofH CIRCULATORY ROAD

348+00

350+00

352

REMOVE BUS STOP SIGN

EXIST COH ROW

EXIST COH ROW

81 (30x24) EAST UNIVERSITY STATION

REMOVE STOP R1-1 (30x30)

83 W11-2 (30x30)

W16-7pL (24x12)

REFL PAV MRK (W) (4") (SLD) PROPOSED (TYP)

30'

NB TRACK CENTERLINE

78 W11-2 (30x30)

W16-7pL (24x12)

75 R15-6 (24x24)

REFL PAV MRK (Y)(24") (SLD) PROPOSED (TYP)

SB TRACK CENTERLINE

WHEELER AVE

84 R15-1 (48x9)

LOOK R15-8 (36x18)

REMOVE W11-2 (30x30)

REMOVE CALHOUN RD M.L. KING BLVD

REMOVE R7-2D(MOD) (12x18)

REMOVE ← CALHOUN RD M L K BLVD → NEXT SIGNAL

REFL PAV MRK (W) (24") (SLD) PROPOSED (TYP)

NB EAST UNIVERSITY STATION PLATFORM

REMOVE UofH PERMIT PARKING SIGN

REFL PAV MRK (W)(4")(DOT) PROPOSED (TYP)

SB EAST UNIVERSITY STATION PLATFORM

77 W11-2 (30x30)

W16-7pL (24x12)

79'

ONLY

ONLY

REFL PAV MRK (W)(ARROW) PROPOSED (TYP)

R7-2R(MOD) (12x18)

REMOVE R7-201a (12x6)

RELOCATE

THIS NEIGHBORHOOD PROTECTED BY HCAD SPONSORED BY HOUSTON POLICE DEPT.

REFL PAV MRK (DBL Y)(4")(SLD) WITH TYPE I-A 2-4" REFLECTIVE RAISED PAVEMENT MARKERS AT 40' C-C PROPOSED (TYP)

UNIVERSITY OAKS BLVD

STOP REMOVE R1-1 (30x30)

REMOVE R7-2R(MOD) (12x18)

R7-201a (12x6)

THIS BLOCK TOW-AWAY ZONE R7-4D(MOD) (12x18) R7-201 (12x6)

79 80

Wheeler ST 4400 D3-1 (36x12) 76

University Oaks BLVD 4400 D3-1 (48x12)

STOP R1-1 (30x30)

REFL PAV MRK (W)(24")(SLD) PROPOSED (TYP)

REFL PAV MRK (W)(12")(SLD) PROPOSED (TYP)

REFL PAV MRK (W)(ONLY) PROPOSED (TYP)

200' - REFL PAV MRK (W)(8") (SLD) PROPOSED WITH TYPE I-C 4" RAISED PAVEMENT MARKERS AT 10' C-C INSIDE LANE (TYP)

COH ROW

82 W11-2 (30x30)

150 FEET W16-2 (24x18)

85 86 THIS BLOCK TOW-AWAY ZONE R7-4D(MOD) (12x18) R7-201 (12x6)

87 LEFT LANE MUST TURN LEFT R3-7L (30x30)

88 ONLY ONLY ONLY ONLY R3-8VAR (60x30)

89 ← Calhoun Rd M L K Blvd → NEXT SIGNAL D3-2 (78x48)

SEE DETAIL "A"

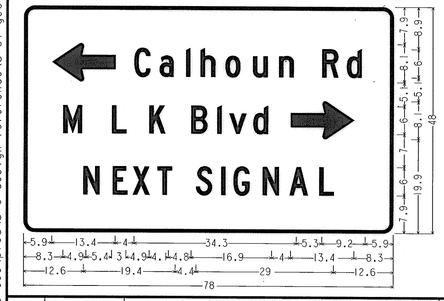
REFL PAV MRK (W)(4")(BRK) PROPOSED WITH TYPE I-C 4" RAISED PAVEMENT MARKERS (TYP)

SCALE (IN FEET)
0 10 20 40

LEGEND

- EXISTING ROW
- PROPOSED ROW
- LRT TRACK ℄
- CROSSING GATE
- PROPOSED SIGN
- EXISTING SIGN

DETAIL "A"



D3-2; 2.3" Radius, 0.8" Border, White on Green; Standard Arrow Custom 13.4" X 8.1" 180; [Calhoun Rd] ClearviewHwy-3-W; [M L K Blvd] ClearviewHwy-3-W; Standard Arrow Custom 13.4" X 8.1" 0; [NEXT SIGNAL] ClearviewHwy-3-W;

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6. SEE UTILITY PLAN AND PROFILE SHEETS FOR PROPOSED UTILITY RELOCATIONS.
7. ALL NEW SIGNAGE TO MEET TxMUTCD REQUIREMENTS AND SPACING.
8. SEE TRAFFIC SIGNAL SHEETS FOR LAYOUTS OF PROPOSED SIGNAL IMPROVEMENTS AND SIGNAL RELATED SIGNS.

RELEASED FOR CONSTRUCTION MAY 12 2011

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STREET & BRIDGE ENGINEERING

WAYNE GAUDIN C.O.H. - SR. P.M.

46773 REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS

CONTRACT SHEET NO 158 OF 462

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	01/17/2011	RFR No. 00011-2A00H UofH Wheeler Adjustment							

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY

STATE OF TEXAS THOMAS D. DUNCAN 98353 LICENSED PROFESSIONAL ENGINEER 12/7/09
Lockwood, Andrews & Newnam Inc. ID # 2614

HRT HOUSTON RAPID TRANSIT JV

METRO Solutions Going Places
Metropolitan Transit Authority of Harris County, Texas

CADD DRN BY		12/07/09 DATE
J.O. DRN CKD BY		12/07/09 DATE
T.D. DES BY		12/07/09 DATE
M.A.F. DES CKD BY		12/07/09 DATE
C.E.R. APPROVED BY		12/07/09 DATE

SCALE: AS SHOWN

METRO SOLUTIONS SOUTHEAST CORRIDOR - 2A

SIGNING AND PAVEMENT MARKING STA 347+00 (PB) TO STA 352+00 (PB)

CONTRACT NO. CT0800120 | DRAWING NO. WC3-0051 | REV.

12/4/2009 10:03:04 AM jLOrtega
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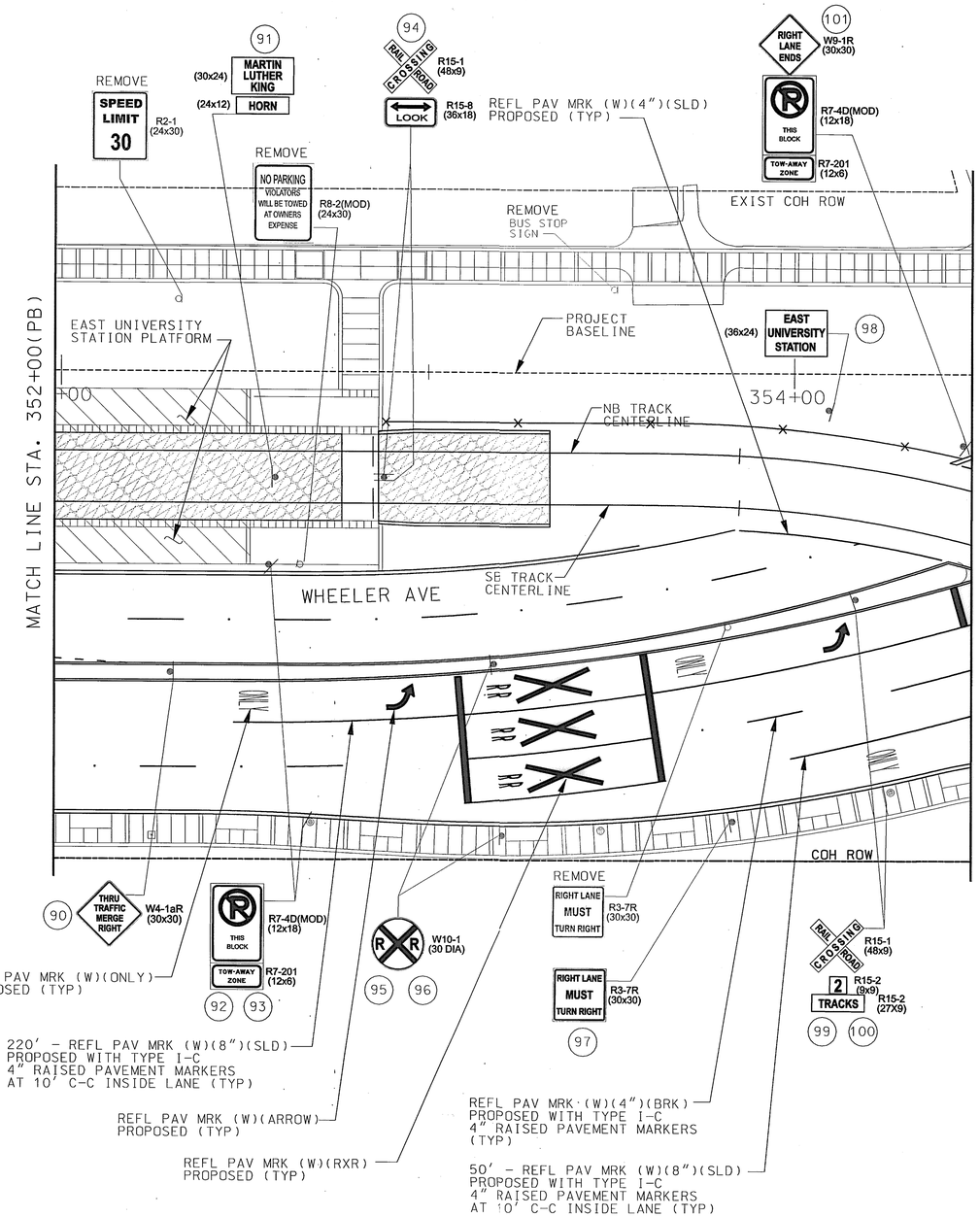
WM-0008



SCALE (IN FEET)
0 10 20 40

LEGEND

- EXISTING ROW
- PROPOSED ROW
- LRT TRACK ℄
- CROSSING GATE
- PROPOSED SIGN
- EXISTING SIGN

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7. ALL NEW SIGNAGE TO MEET TxMUTCD REQUIREMENTS AND SPACING.
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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STREET & BRIDGE ENGINEERING

WAYNE GAUDIN C.O.H. - SR. P.M.

46773
CITY OF HOUSTON
HOUSTON, TEXAS

RELEASED FOR CONSTRUCTION MAR 0 9 2010

CONTRACT SHEET NO 159 OF 462

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

STATE OF TEXAS
THOMAS D. DUNCAN
98353
LICENSED PROFESSIONAL ENGINEER
12/7/09
Lockwood, Andrews & Newnam Inc.
ID # 2614

HRT
HOUSTON RAPID TRANSIT JV

METRO Solutions
Going Places
Metropolitan Transit Authority of Harris County, Texas

CADD DRN BY	12/07/09 DATE
J.O. DRN CKD BY	12/07/09 DATE
T.D. DES BY	12/07/09 DATE
M.A.F. DES CKD BY	12/07/09 DATE
C.E.R. APPROVED BY	12/07/09 DATE

SCALE: AS SHOWN

METRO SOLUTIONS SOUTHEAST CORRIDOR - 2A

SIGNING AND PAVEMENT MARKING
STA 352+00 (PB) TO
STA 354+50 (PB)

CONTRACT NO. CT0800120 | DRAWING NO. WC3-0052 | REV.

12/4/2009 JLOrtega 10:03:07 AM
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WM-0009

NOTES:
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8. SEE TRAFFIC SIGNAL SHEETS FOR LAYOUTS OF PROPOSED SIGNAL IMPROVEMENTS AND SIGNAL RELATED SIGNS.
9. 10.04.ALL.02 REFERS TO THE CITY OF HOUSTON APPROVED VARIANCE FOR TRAFFIC BUTTONS.
10. SIGNAGE RESTRICTING SEMITRAILER U-TURNS TO BE PROVIDED ON TRAFFIC SIGNAL MAST ARMS

SCALE (IN FEET)
0 10 20 40

LEGEND
- EXISTING ROW
- PROPOSED ROW
- LRT TRACK ℄
- CROSSING GATE
- PROPOSED SIGN
- EXISTING SIGN

CALHOUN RD
MATCH LINE STA. 354+50(PB)
EXIST COH ROW
MEET EXISTING STRIPING
REMOVE BUS STOP SIGN
REMOVE U of H SIGN
REMOVE W9-2L (30x30) LANE ENDS MERGE LEFT
REMOVE R3-8b (48x30) ONLY ONLY
PROJECT BASELINE
R10-11a (24x30) NO TURN ON RED
R15-6 (24x24)
REMOVE R3-7R (30x30) RIGHT LANE MUST TURN RIGHT
356+00
NB TRACK CENTERLINE
BUS STOP SIGN REMOVE
RELOCATE U of H SIGN
WHEELER AVE
40'
80' TYP
50'
R3-8L (30x30) ONLY
W10-1 (30 DIA)
R15-1 (48x9) RAIL ROAD CROSSING
R15-2 (9x9) 2 TRACKS R15-2 (27X9)
R7-4D(MOD) (12x18) THIS BLOCK
R7-201 (12x6) TOW-AWAY ZONE
REFL PAV MRK (W)(12")(SLD) PROPOSED (TYP)
REFL PAV MRK (W)(4") (DOT) PROPOSED (TYP)
REFL PAV MRK (W)(RXR) PROPOSED (TYP)
80' – REFL PAV MRK (W)(8")(SLD) WITH TYPE I-C 4" RAISED PAVEMENT MARKERS AT 10' C-C INSIDE LANE PROPOSED (TYP)
REFL PAV MRK (W)(ARROW) PROPOSED (TYP)
MEET EXISTING STRIPING
W4-3R (36x36) RELOCATE
W4-3R (36x36) REMOVE
REFL PAV MRK (W)(ONLY) PROPOSED (TYP)
100' – REFL PAV MRK (W)(8")(SLD) WITH TYPE I-C 4" RAISED PAVEMENT MARKERS AT 10' C-C INSIDE LANE PROPOSED (TYP)
160' – REFL PAV MRK (W)(8")(SLD) WITH TYPE I-C 4" RAISED PAVEMENT MARKERS AT 10' C-C INSIDE LANE PROPOSED (TYP)
REFL PAV MRK (W)(4")(BRK) WITH TYPE I-C 4" RAISED PAVEMENT MARKERS PROPOSED (TYP)
10" ROUND PRECAST TRAFFIC BUTTONS @ 3' C-C ON CONCRETE HEADER (TYP)
REMOVE R3-8 VAR (30x30) ONLY ONLY
REMOVE R3-8b (48x30) ONLY ONLY
REMOVE R3-8 VAR (30x30) ONLY ONLY
REMOVE R1-1 (30x30) STOP
REFL PAV MRK (W)(4")(DOT) PROPOSED (TYP)
REFL PAV MRK (Y)(4")(SLD) PROPOSED WITH TYPE II-A-A 4" RAISED PAVEMENT MARKERS AT 40' C-C (TYP)
358+00
SB TRACK CENTERLINE
10.04.ALL.02
MATCH LINE STA. 359+00(PB)
REMOVE R1-1 (30x30) STOP
REFL PAV MRK (W)(24") (SLD) PROPOSED (TYP)
Calhoun Rd ↗ ↑ MLK Blvd REMOVE
R1-2 (30X30X30) YIELD
COH ROW
REFL PAV MRK (W)(4") (SLD) PROPOSED (TYP)
U of H SIGN RELOCATE
30' – REFL PAV MRK (W)(8")(SLD) WITH TYPE I-C 4" RAISED PAVEMENT MARKERS AT 10' C-C INSIDE LANE PROPOSED (TYP)
MARTIN LUTHER KING (30x24) HORN (24x12)
EXIST COH ROW
Martin Luther King BLVD 4500 D3-1 (72x12)
Calhoun RD 5000 D3-1 (48x12)
R6-1R (48x16) ONE WAY REMOVE
R1-1 (30x30) STOP
R6-2R (24x30) ONE WAY
R6-2R (24x30) ONE WAY
CALHOUN RD
MATCH LINE STA. 359+00(PB)

RELEASED FOR CONSTRUCTION MAR 09 2010

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
STREET & BRIDGE ENGINEERING
WAYNE GAUDIN C.O.H. - SR. P.M.
46778 TX DRIVING SCHOOL LICENSE TEXAS

CONTRACT SHEET NO 160 OF 462

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY

STATE OF TEXAS THOMAS D. DUNCAN 98353 LICENSED PROFESSIONAL ENGINEER 12/7/09 Lockwood, Andrews & Newnam Inc. ID # 2614

HRT HOUSTON RAPID TRANSIT JV

METRO Solutions Going Places
Metropolitan Transit Authority of Harris County, Texas

CADD DRN BY		12/07/09 DATE
J.O. DRN CKD BY		12/07/09 DATE
T.D. DES BY		12/07/09 DATE
M.A.F. DES CKD BY		12/07/09 DATE
C.E.R. APPROVED BY		12/07/09 DATE

SCALE: AS SHOWN

METRO SOLUTIONS SOUTHEAST CORRIDOR - 2A

SIGNING AND PAVEMENT MARKING STA 354+50 (PB) TO STA 359+00 (PB)

CONTRACT NO. CT0800120 | DRAWING NO. WC3-0053 | REV.

12/4/2009 10:03:11 AM jLOrtega
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