

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1252	TITLE SHEET
1253-1261	INDEX OF SHEETS

CAMINO REAL REGIONAL MOBILITY AUTHORITY

PLANS OF PROPOSED
URBAN STREETCAR

PROJECT NO. ()

CITY OF EL PASO STREETCAR
EL PASO COUNTY

VOLUME 4 OF 4 - MAINTENANCE & STORAGE FACILITY

FINAL PLANS

LETTING DATE: _____

DATE CONTRACTOR BEGAN WORK: _____

DATE WORK WAS COMPLETED & ACCEPTED: _____

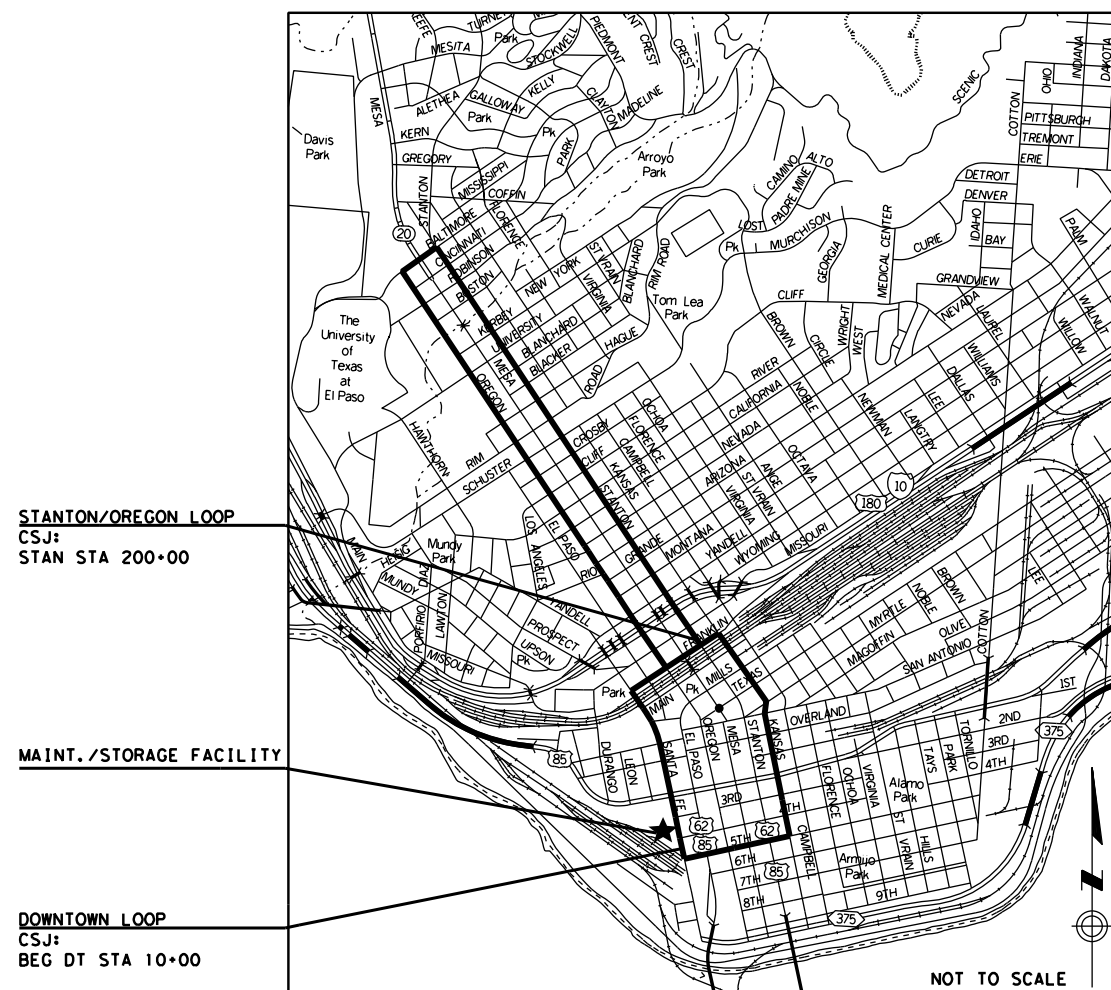
FINAL CONTRACT COST: \$ _____

CONTRACTOR : _____

REGISTERED ACCESSIBILITY SPECIALIST (RAS)
INSPECTION REQUIRED
TDLR No. EABPRJB5819210

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH
BC (1)- 14 THRU BC (12)- 14 AND THE "TEXAS
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

FOR THE CONSTRUCTION OF AN URBAN STREETCAR SYSTEM CONSISTING OF
GRADING, STRUCTURES, SURFACE AND SUBSURFACE IMPROVEMENTS,
TRACKWORK, AND MAINTENANCE/STORAGE FACILITY



STANTON/OREGON LOOP
CSJ:
STAN STA 200+00

MAINT./STORAGE FACILITY

DOWNTOWN LOOP
CSJ:
BEG DT STA 10+00

LIMITS:

DOWNTOWN LOOP LIMITS:

FROM INTERSECTION OF FATHER RAHM AVE AND SANTA FE ST, ALONG
SANTA FE ST TO FRANKLIN AVE, ALONG FRANKLIN AVE TO KANSAS ST,
ALONG KANSAS ST TO FATHER RAHM AVE, ALONG FATHER RAHM AVE TO
SANTA FE ST.

STANTON/OREGON LOOP LIMITS:

FROM INTERSECTION OF STANTON ST AND FRANKLIN AVE, ALONG
STANTON TO BALTIMORE DR, ALONG BALTIMORE DR TO OREGON ST,
ALONG OREGON ST TO FRANKLIN AVE.

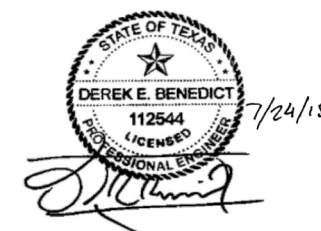
COUNTY _____ PROJ. NO. _____
HWY. NO. _____ LETTING DATE _____
DATE ACCEPTED _____

STATE PROJECT NO.			
()			
CONT	SECT	JOB	HIGHWAY
0924	06	446	VARIOUS
DIST	COUNTY		SHEET NO.
EL PASO	EL PASO		1252

URS

2829 Montana Suite 206
El Paso, Texas 79903
(915) 493-6468

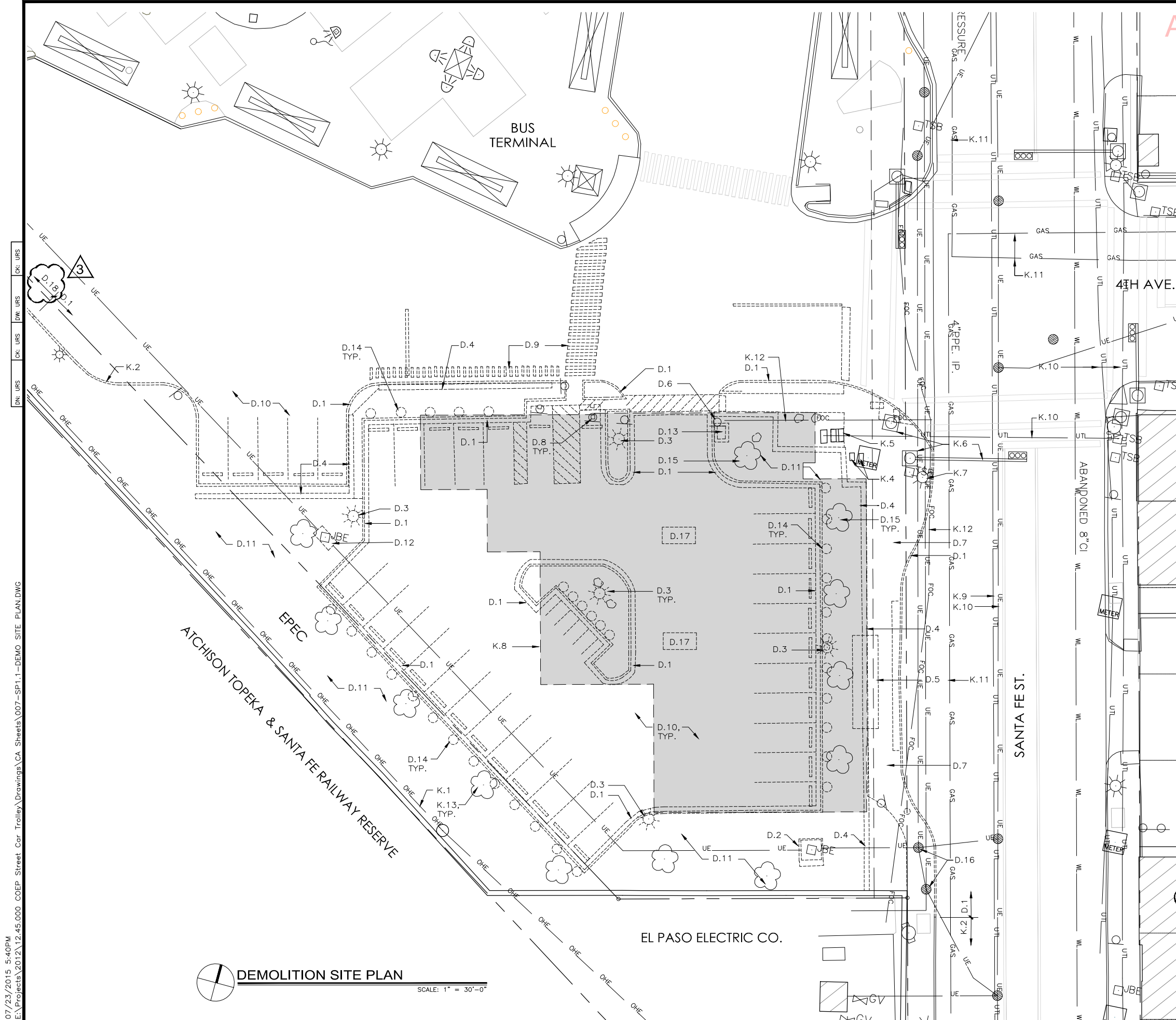
TBPE REGISTRATION NO. F-3162



SUBMITTED FOR LETTING: _____

PROJECT MANAGER
CAMINO REAL REGIONAL MOBILITY AUTHORITY

DATE: 07/23/2015 5:40PM
FILE: E:\Projects\2012\1245.000 COEP Street Car Trolley Drawings\CA Sheets\007-SP1.1-DEMO SITE PLAN.DWG



ADDENDUM 3 - JULY 24, 2015

DEMOLITION GENERAL NOTES

- G.1 CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION AND PROPOSED CONSTRUCTION
- G.2 REFER TO CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION, CUT AND PATCH, EXTENT OF NEW WORK REQUIREMENTS OUTSIDE PRIMARY PROJECT LIMITS AND COORDINATION OF EXISTING UTILITIES SCHEDULED TO REMAIN.
- G.3 CONTRACTOR SHALL COMPLY WITH ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE AT PROJECT LOCATION. CONTRACTOR SHALL FILE AND SECURE ALL NECESSARY PERMITS, APPROVALS, ETC. FOR ALL TRADES.
- G.4 CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGE UNDERGROUND WORK, UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH REMAIN AS PART OF THE FINAL SYSTEMS. WHERE DAMAGED, CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION
- G.5 ALL ITEMS INDICATED TO BE REMOVED SHALL BE REMOVED FROM SITE ON DAILY BASIS AND LEGALLY DISPOSED OF
- G.6 THE CONTRACTOR SHALL OVERSEE CLEANING AND ENSURE THAT THE PREMISES ARE MAINTAINED FREE OF RUBBISH DURING DEMOLITION WORK. CLEANUP IS THE RESPONSIBILITY OF THE CONTRACTOR.
- G.7 MANHOLES, CONCRETE ENCLOSURES, SEWER CLEAN-OUTS, ETC. SHALL CONFORM WITH GRADING PLAN. CONTRACTOR SHALL ADJUST AS REQUIRED.

KEYED NOTES

- K.1 OVERHEAD UTILITY ELECTRICAL LINE
- K.2 CURB + GUTTER TO REMAIN
- K.3 UTILITIES TO REMAIN
- K.4 UNDERGROUND WATER VALVE TO REMAIN
- K.5 WATER METER TO REMAIN
- K.6 STREET TRAFFIC LIGHTS TO REMAIN. PROTECT AT ALL TIMES DURING ALL PHASES CONSTRUCTION.
- K.7 EXISTING LIGHT POLE TO REMAIN. PROTECT AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.
- K.8 LINE OF PROPOSED BUILDING FOOTPRINT.
- K.9 UNDERGROUND UTILITY ELECTRICAL LINE.
- K.10 UNDERGROUND UTILITY COMMUNICATION LINE.
- K.11 UNDERGROUND GAS UTILITY LINE.
- K.12 UNDERGROUND UTILITY FIBER OPTIC COMMUNICATION LINE.
- K.13 EXISTING TREES, SHRUBS AND BASE TO REMAIN. PROTECT AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.

DEMOLITION KEYED NOTES

DASHED LINE INDICATES ITEMS TO BE REMOVED IN THEIR ENTIRETY. ITEMS ARE NOTED TO GENERALLY DESCRIBE EXISTING CONSTRUCTION ONLY AND ARE NOT INTENDED TO LIMIT EXTENT OF DEMOLITION. REMOVE ALL ITEMS LOCATED WITHIN PRIMARY PROJECT LIMITS EXCEPT AS INDICATED TO REMAIN, INCLUDING TREES, SHRUBS, WALLS, SLABS, POLES, ETC. NOTES SHALL BE CONSIDERED TYPICAL UNLESS INDICATED TO BE ABANDONED OR OTHER DESCRIPTION. UTILITIES SERVICES ARE TO BE REMOVED BACK TO SOURCE SHUTOFF VALVE, DISCONNECT OR BRANCH. CAP UTILITY AS REQUIRED BY UTILITY COMPANY, CODE OR OWNER. IF ABANDONED IN PLACE, INDICATE PLAN AND ELEVATION LOCATION ON AS-BUILT DRAWINGS.

- D.1 CONCRETE CURB AND GUTTER.
- D.2 TRANSFORMER TO BE RELOCATED.
- D.3 LIGHT POLE. SALVAGE TO OWNER.
- D.4 ROCK WALL.
- D.5 CANOPY SYSTEM. SALVAGE TO OWNER.
- D.6 FIBER OPTIC MARKER TO BE REINSTALLED. COORDINATE W/ELEC.
- D.7 CONCRETE SIDEWALK
- D.8 SIGNS
- D.9 STRIPING
- D.10 ASPHALT PAVING, REFER TO SITE PLAN FOR EXTENT.
- D.11 LANDSCAPE
- D.12 ELECTRICAL JUNCTION BOX TO REMAIN.
- D.13 UTILITY BOX TO BE RELOCATED.
- D.14 PARKING METERS TO BE REMOVED. SALVAGE AND RETURN TO OWNER.
- D.15 REMOVE TREE(S) IN ITS ENTIRETY. CONTRACTOR TO FIELD VERIFY EXACT NUMBER OF TREES REQUIRED TO BE REMOVED. ANY TREES NOT SHOWN BUT REQUIRED TO BE REMOVED TO ACCOMMODATE NEW WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, NO EXCEPTIONS.
- D.16 EXISTING MANHOLE COVERS TO BE ADJUSTED TO NEW FINISH GRADE.
- D.17 APPROXIMATELY 12'x6'x8' CONCRETE VAULT. FIELD VERIFY EXACT LOCATION.
- D.18 CONCRETE CURB AND GUTTER TO WEST ENTRY DRIVE (RAMP), APPROX. 158 FEET.

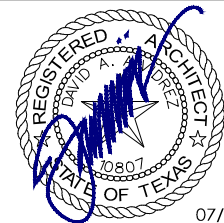
LEGEND

----- INDICATES ITEM TO BE REMOVED IN ITS ENTIRETY

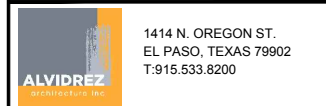
3 ATTACHMENT - A
ADDENDUM NO.3
23 JULY 2015

PAGE 1 OF 2

NO	DATE	REVISION	APPROVED
1	07/14/15		
2			
3			
4			
5			



07/14/15



COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY

DEMOLITION
SITE PLAN



SHEET 1 OF 9		SP1.1
CONT	SECT	JOB
		VARIOUS
DIST	COUNTY	SHEET NO.
EL PASO	EL PASO	1267

DATE: 07/23/2015 5:39PM
FILE: E:\Projects\2012\1245.000 COEP Street Car Trolley Drawings\CA Sheets\009-SP1.3-SITE PLAN.DWG

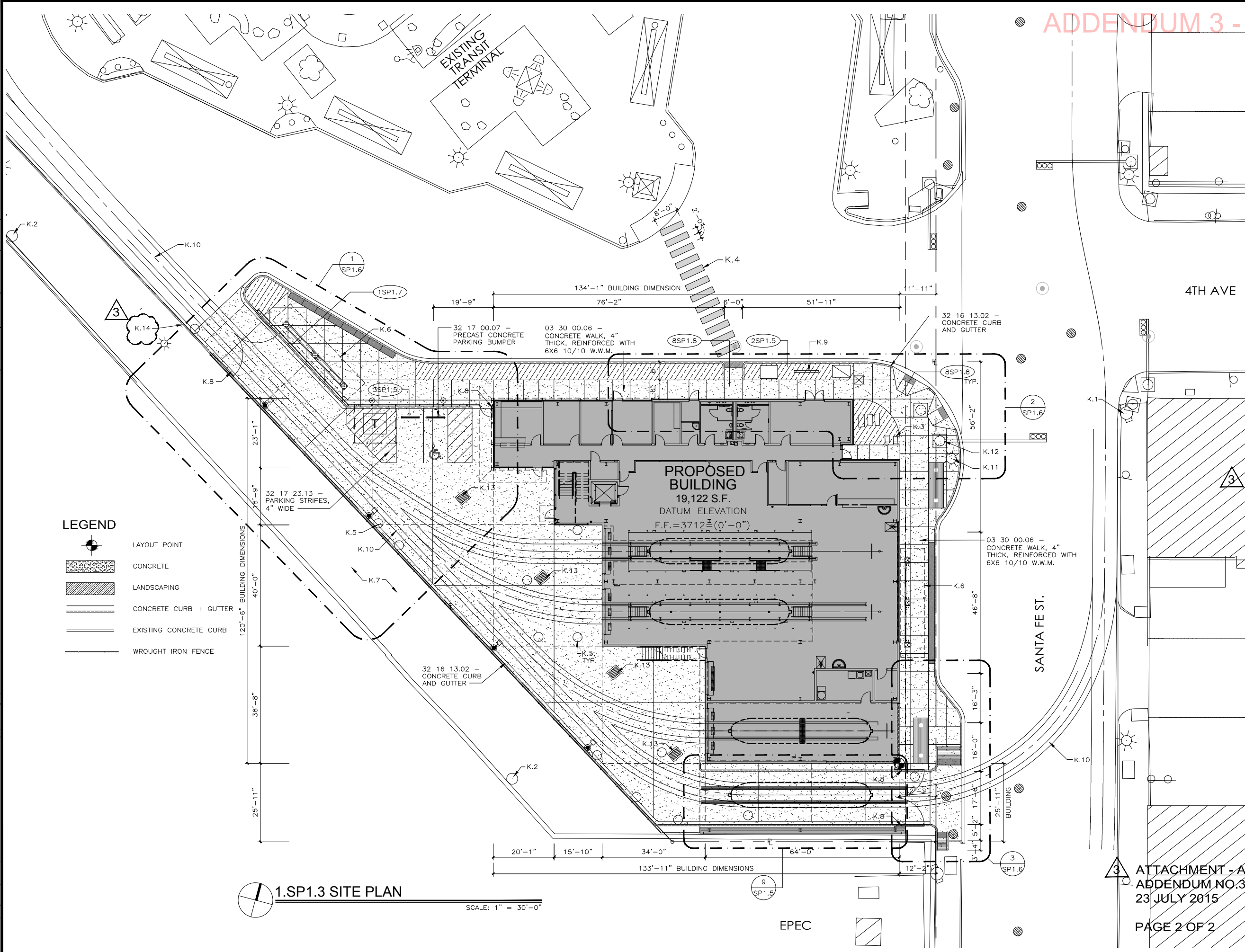
DN: URS
CK: URS
DW: URS
OK: URS

LEGEND

- LAYOUT POINT
- CONCRETE
- LANDSCAPING
- CONCRETE CURB + GUTTER
- EXISTING CONCRETE CURB
- WROUGHT IRON FENCE

1.SP1.3 SITE PLAN

SCALE: 1" = 30'-0"



ADDENDUM 3 - JULY 2015

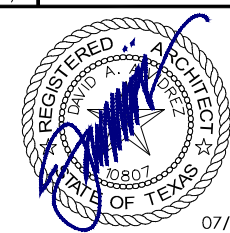
GENERAL SITE NOTES

- GS1. CONCRETE WALKS ARE TO BE SCORED AS INDICATED WITH 1/2" EXPANSION JOINTS INSTALLED AT 20'-0" O.C. BETWEEN INTERSECTING WALKS AND AS DETAILLED.
- GS2. AREAS INDICATED "LANDSCAPING" SHALL BE CLEARED OF ALL NON-SOIL MATERIALS AND GRADED TO 6" BELOW THE FINISH GRADES INDICATED. REFER TO LANDSCAPE PLANS FOR TOPSOIL CHAT AND/OR OTHER LANDSCAPING MATERIALS.
- GS3. CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK REQUIRED WHETHER INDICATED OR NOT TO COMPLETE NEW WORK FOR INTENDED USE.
- GS4. REMOVE TREES, SHRUBS, GRASS AND OTHER VEGETATION, IMPROVEMENTS OR OBSTRUCTIONS INTERFERING WITH INSTALLATION OF NEW CONSTRUCTION. REMOVAL INCLUDES DIGGING OUT STUMPS AND ROOTS.

SITE KEYED NOTES

- K.1 EXISTING FIRE HYDRANT
- K.2 EXISTING UTILITY POWER POLE
- K.3 EXISTING WATER METER
- K.4 PEDESTRIAN CROSSING TO BE PAINTED WITH HIGHWAY REFLECTIVE WHITE PAINT.
- K.5 OCS POLE. REFER TO TRACK DRAWINGS.
- K.6 BUS CANOPY, REFER TO SHEET SP1.7
- K.7 EXISTING E.P.E.C. ACCESS PROPERTY.
- K.8 WROUGHT IRON GATES
- K.9 PROJECT SIGN, VERIFY EXACT LOCATION WITH OWNER.
- K.10 STREETCAR TRACK, REFER TO TRACK DRAWINGS AND SPECIFICATIONS.
- K.11 STREET LIGHT TO REMAIN. PROTECT AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.
- K.12 TRAFFIC LIGHT TO REMAIN. PROTECT AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.
- K.13 STORM DRAIN INLET
- K.14 EXTEND CONCRETE CURB AND GUTTER TO WEST ENTRY DRIVE (RAMP) APPROX. ADDITIONAL 158 FEET WEST FROM THIS POINT.

NO	DATE	REVISION	APPROVED



07/14/15

ALVIDREZ
architecture inc.
1414 N. OREGON ST.
EL PASO, TEXAS 79902
T:915.533.8200

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TBPE REGISTRATION NO. F-3162

**COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY**

SITE PLAN

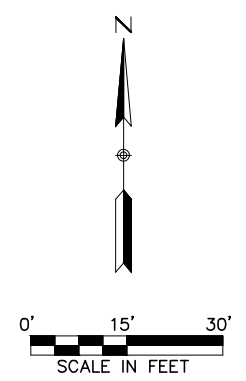


SHEET 3 OF 9			SP1.3
CONT	SECT	JOB	HIGHWAY
			VARIOUS
DIST	COUNTY	SHEET NO.	
EL PASO	EL PASO	1269	

ATTACHMENT - A
ADDENDUM NO.3
23 JULY 2015

PAGE 2 OF 2

- LEGEND
- TP TOP OF PAVEMENT
 - TS TOP OF SIDEWALK
 - TG TOP OF GRATE
 - FF FINISHED FLOOR
 - ROW
 - MAJOR CONTOUR
 - MINOR CONTOUR



NO	DATE	REVISION	APPROVED



MCi Moreno Cardenas Inc.
Leaders in Project Delivery & Performance
TBPE Firm Registration No. F-000554

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(915) 493-6468
TBPE REGISTRATION NO. F-3162

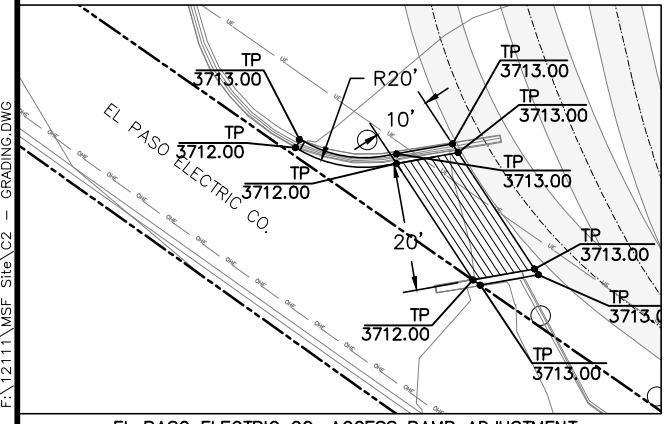
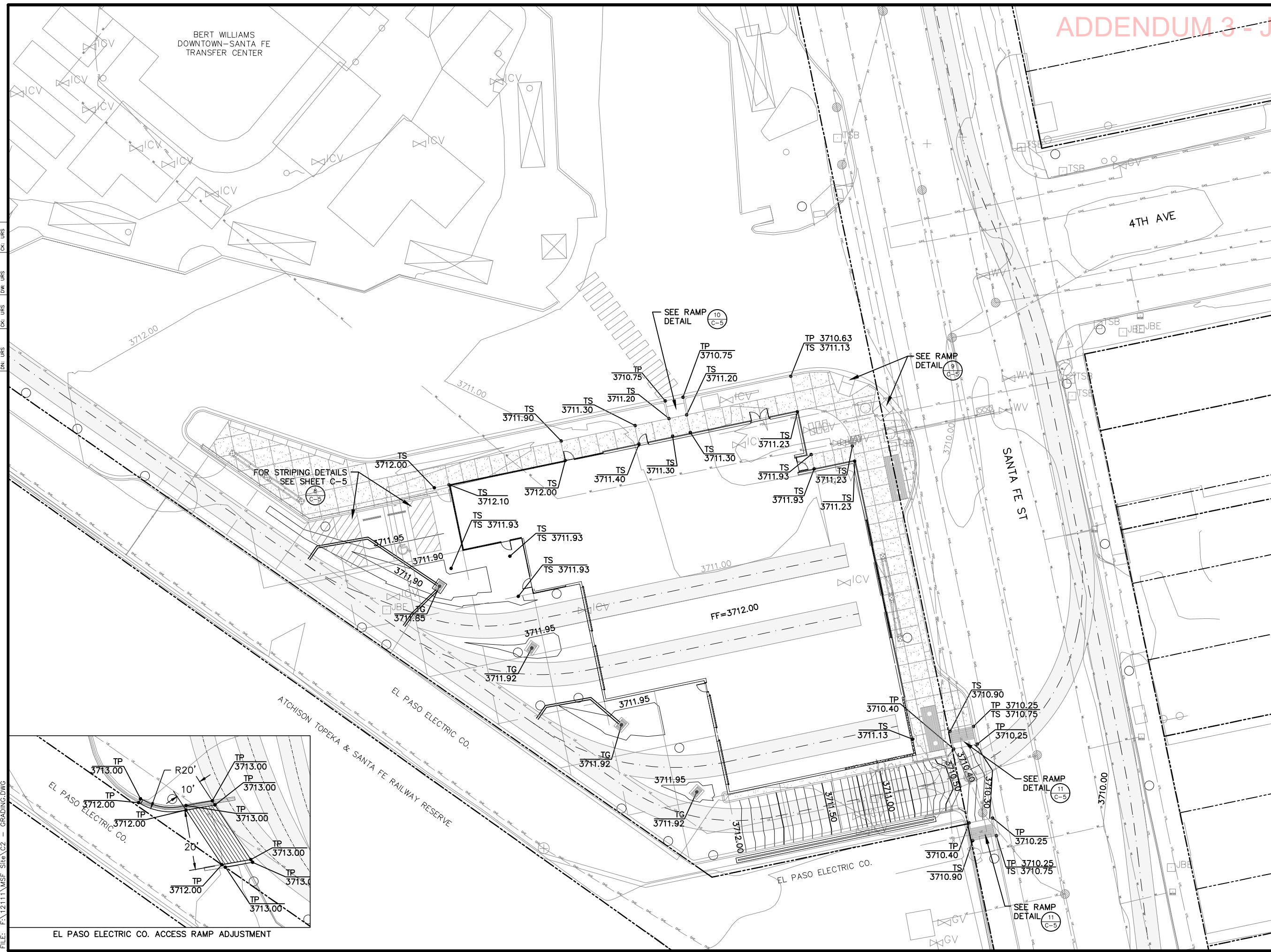
COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY
GRADING PLAN



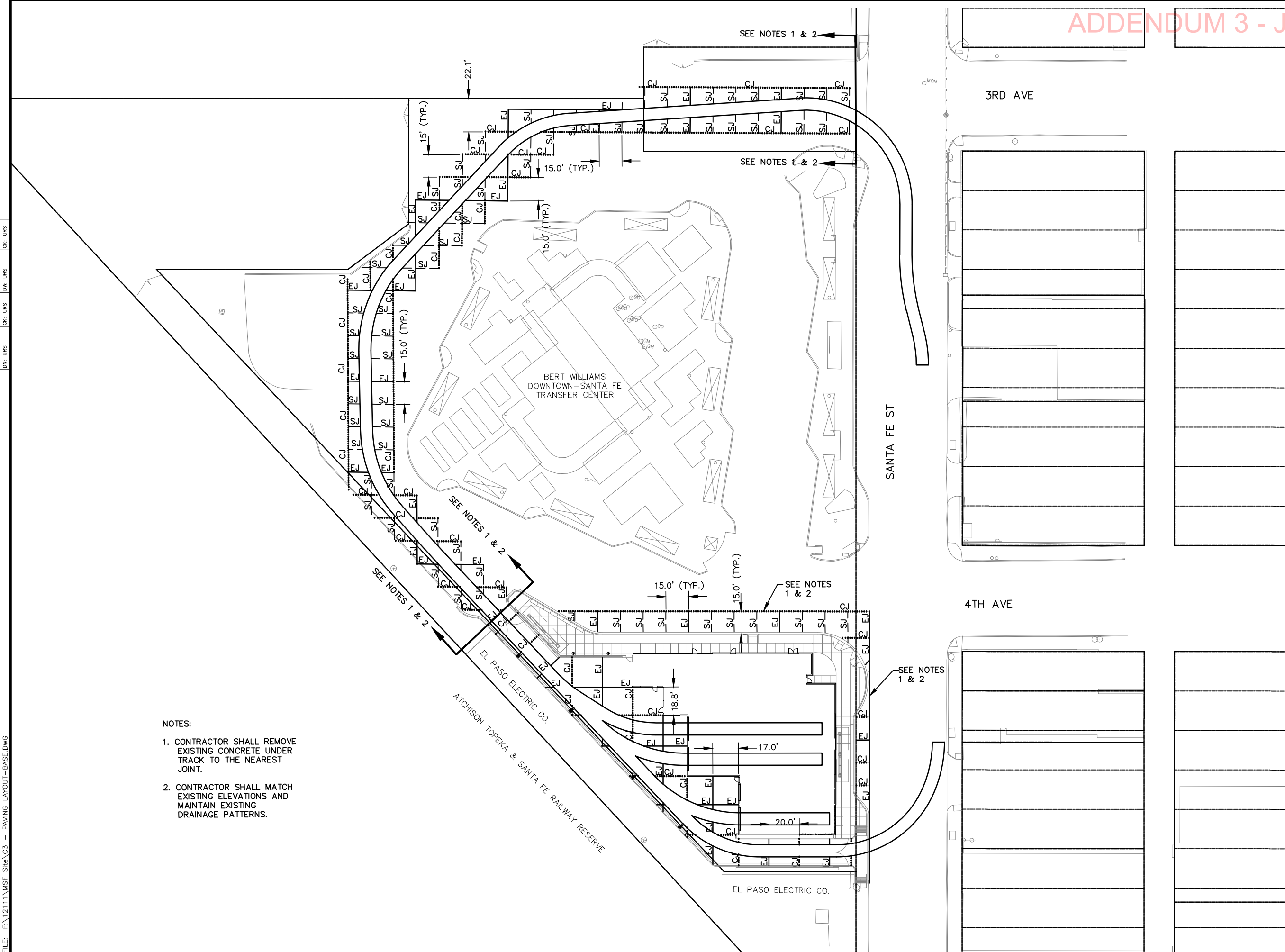
C-2

CONT	SECT	JOB	HIGHWAY
			VARIOUS
DIST	COUNTY	SHEET NO.	
EL PASO	EL PASO	1277	

DATE: 07/23/2015 2:47PM
FILE: F:\12111\MSF Site\02 - GRADING.DWG
DNL: URS
DCA: URS
DNL: URS
DCA: URS



EL PASO ELECTRIC CO. ACCESS RAMP ADJUSTMENT



- NOTES:**
1. CONTRACTOR SHALL REMOVE EXISTING CONCRETE UNDER TRACK TO THE NEAREST JOINT.
 2. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AND MAINTAIN EXISTING DRAINAGE PATTERNS.

SANTA FE ST

3RD AVE

4TH AVE

SEE NOTES
1 & 2

SEE NOTES 1 & 2

SEE NOTES 1 & 2

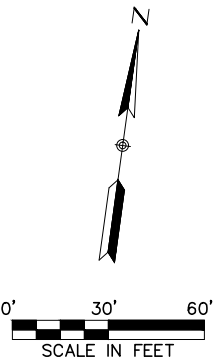
SEE NOTES
1 & 2

ATCHISON ELECTRIC CO.

4 & SANTA FE RAILWAY RESERVE

EL PASO ELECTRIC CO.

EJ	EXPANSION JOINT
	SEE SHEET C-4
CJ	CONSTRUCTION JOINT
	SEE SHEET C-4
SJ	SAW JOINT
	SEE SHEET C-4
	ROW



NO	DATE	REVISION	APPROVED
	/ /		
	/ /		
	/ /		
	/ /		



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Cardenas Inc.
Leaders in Project Delivery & Performance
TBPE Firm Registration No. F-000554

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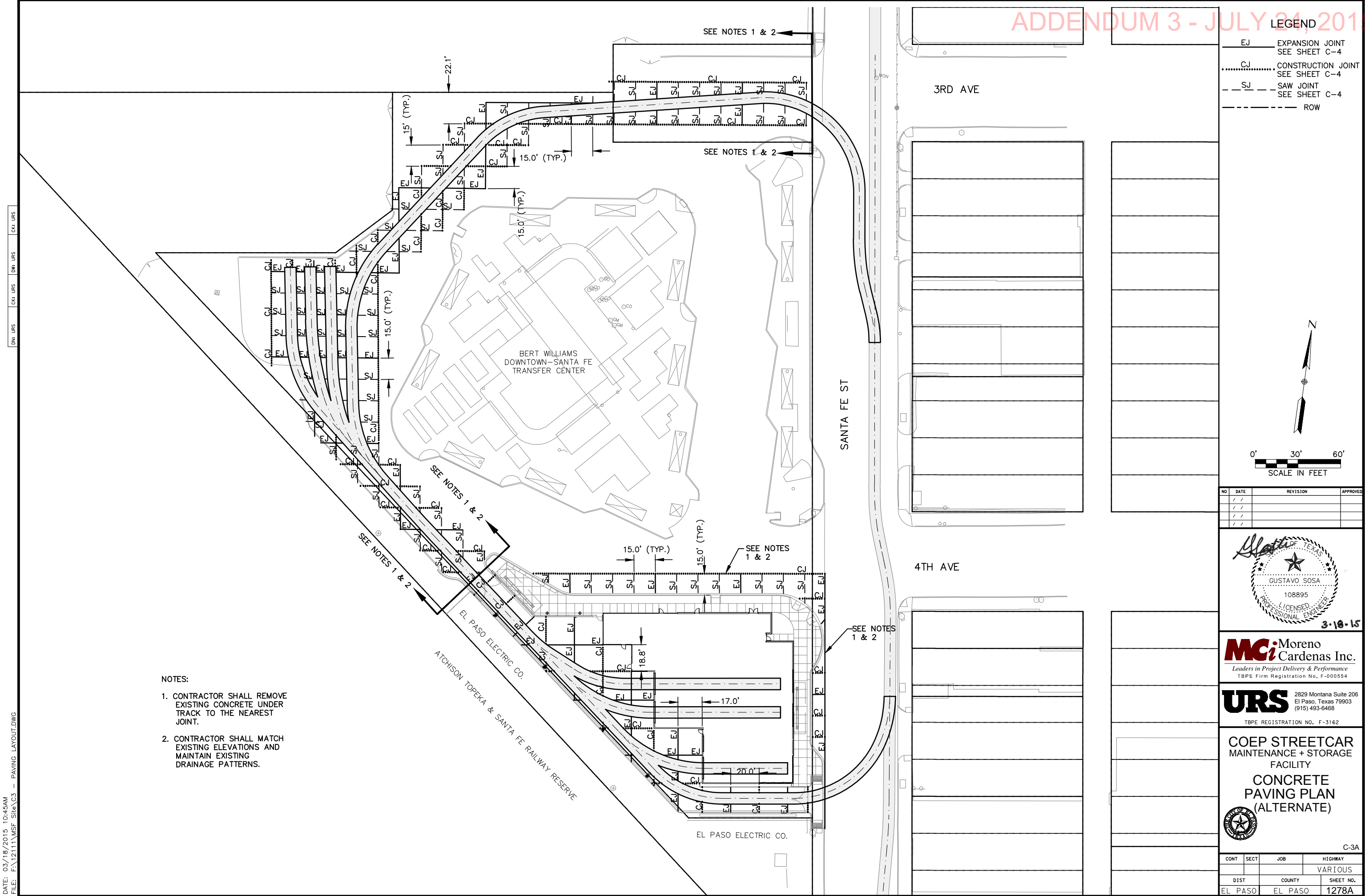
TBPE REGISTRATION NO. F-3162

COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY
CONCRETE
PAVING PLAN



C-3

CONT	SECT	JOB	HIGHWAY
			VARIOUS
DIST	COUNTY	SHEET NO.	
EL PASO	EL PASO	1278	



ADDENDUM 3 - JULY 24, 2015

- LEGEND
- EJ EXPANSION JOINT
SEE SHEET C-4
 - CJ CONSTRUCTION JOINT
SEE SHEET C-4
 - SJ SAW JOINT
SEE SHEET C-4
 - ROW



0' 30' 60'
SCALE IN FEET

NO	DATE	REVISION	APPROVED
1	7/24/15	ADDENDUM 3	

GUSTAVO SOSA
108895
REGISTERED PROFESSIONAL ENGINEER
3-18-15

MCi Moreno Cardenas Inc.
Leaders in Project Delivery & Performance
TBPE Firm Registration No. F-000554

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El Paso, Texas 79903
(915) 493-6468
TBPE REGISTRATION NO. F-3162

COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY
CONCRETE
PAVING PLAN
(ALTERNATE)

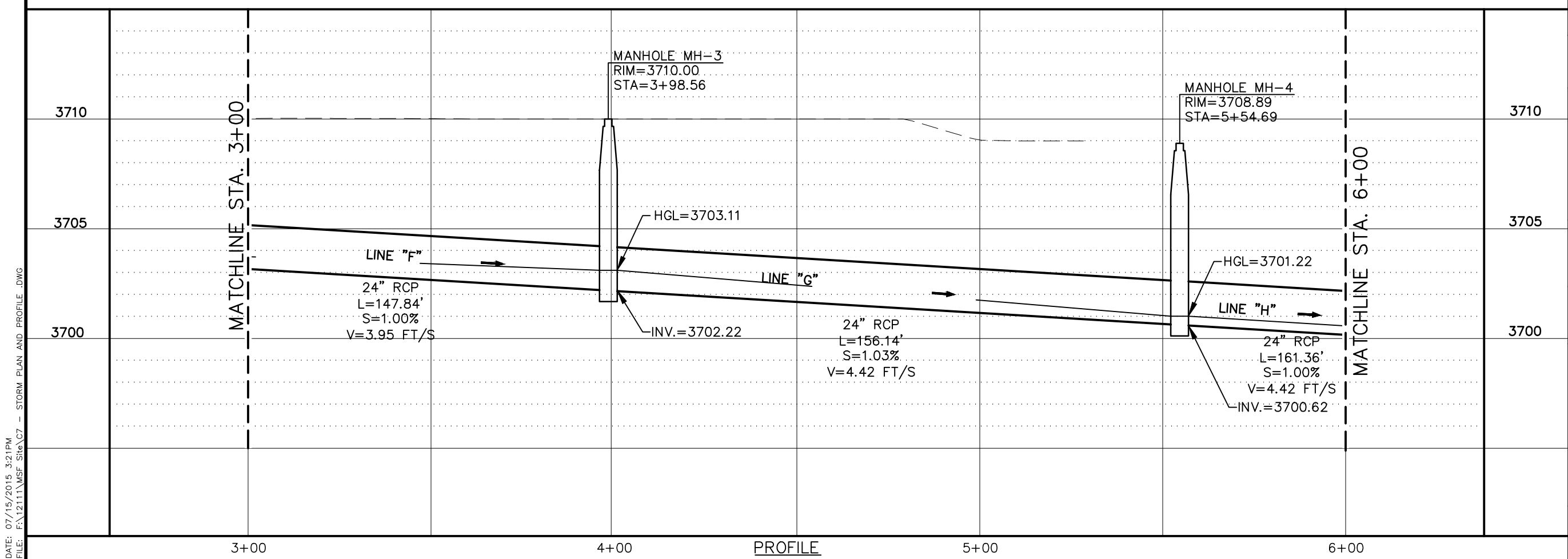
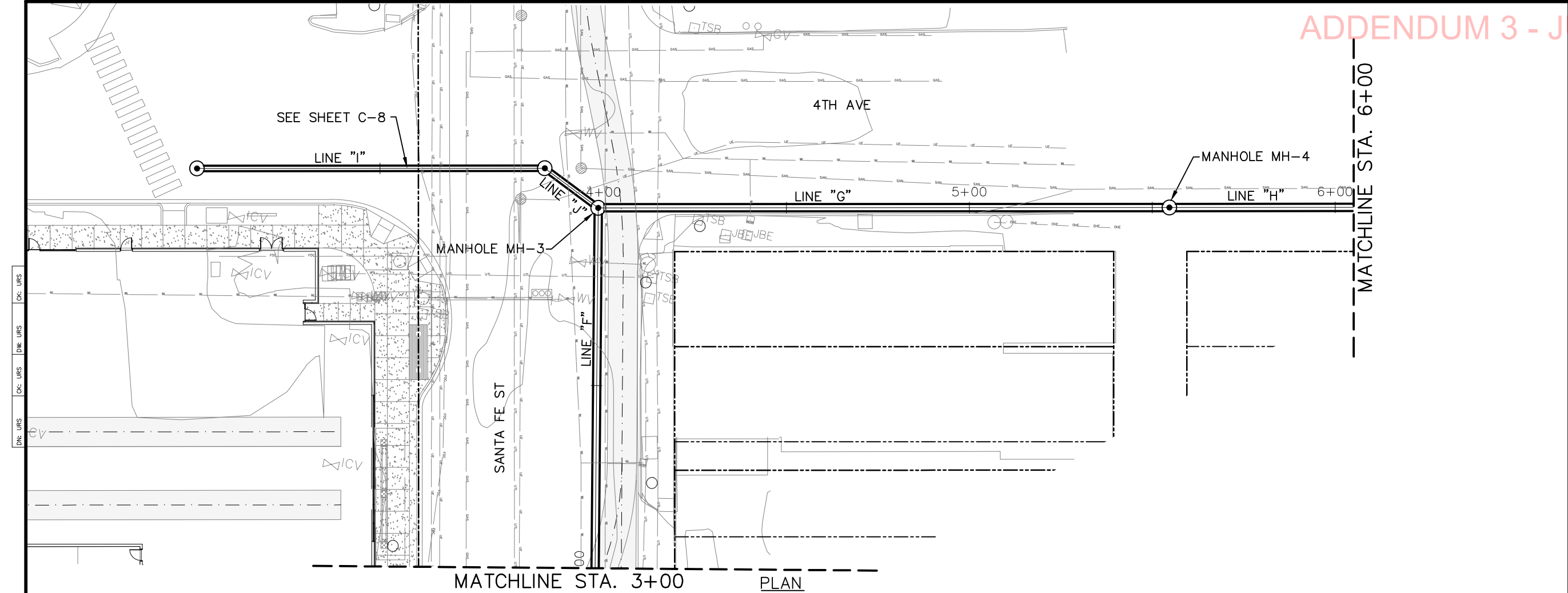


C-3A

CONT	SECT	JOB	HIGHWAY
			VARIOUS
DIST	COUNTY	SHEET NO.	
EL PASO	EL PASO	1278A	

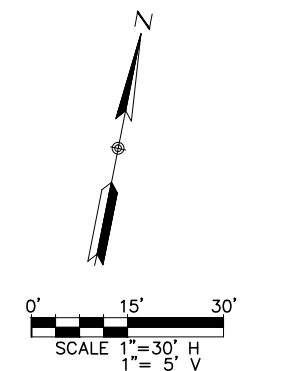
NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING CONCRETE UNDER TRACK TO THE NEAREST JOINT.
2. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AND MAINTAIN EXISTING DRAINAGE PATTERNS.



ADDENDUM 3 - JULY 24, 2015

- LEGEND
- DROP INLET TYPE H
 - MANHOLE
 - JUNCTION BOX
 - FLOW DIRECTION
 - (HGL) HYDRAULIC GRADE LINE



NO.	DATE	REVISION	APPROVED
1	07/15/2015	ISSUED FOR PERMIT	
2	07/24/2015	ADDENDUM 3	



MCi Moreno Cardenas Inc.
Leaders in Project Delivery & Performance
TBPE Firm Registration No. F-000554

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TBPE REGISTRATION NO. F-3162

COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY
STORM SEWER
PLAN AND PROFILE

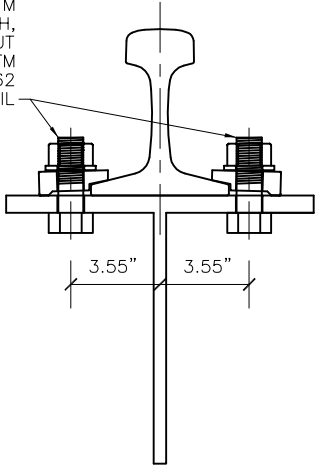
SHEET 2 OF 3		C-7	
CONT	SECT	JOB	HIGHWAY
			VARIOUS
DIST	COUNTY	SHEET NO.	
EL PASO	EL PASO	1282	

DATE: 07/15/2015 3:21PM
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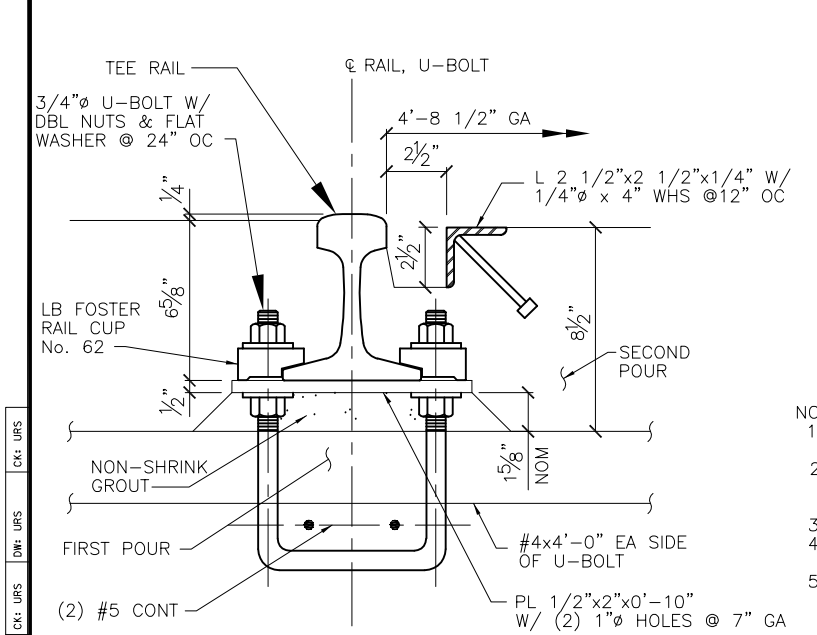
NOTES

1. FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWINGS S0.1 AND S0.2.
2. FOR TYPICAL DETAILS SEE DRAWINGS S0.3-S0.9.
3. TEE RAIL SHALL BE NEW 115RE RAIL PER AREMA CHAPTER 4: PART 1 FIGURE 4-1-1 AND PART 2 SECTION 2.1.4.1 STANDARD AREMA CHEMISTRY RAIL.

PAIR OF FASTENER ASSEMBLY @ 30"-36" SPACING INTERVAL.
HEX HEAD 1"Ø BOLT (ASTM A325) X 3.25" LENGTH, THREAD 8 UNC 2A, HEX NUT (ASTM A563), WASHER (ASTM F436) AND LB FOSTER NO. 62 RAIL CLIP FOR 115RE RAIL

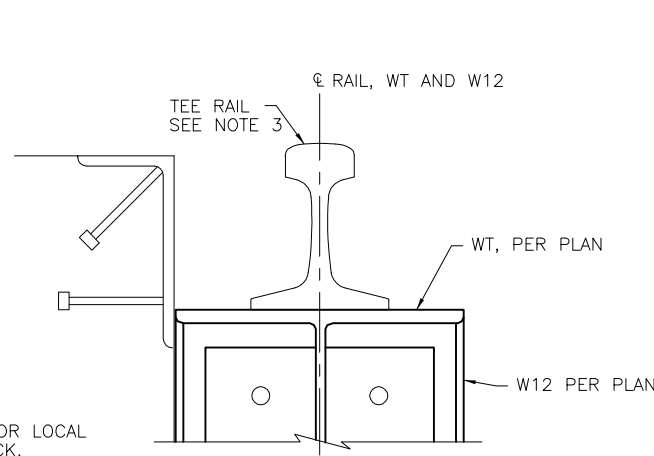
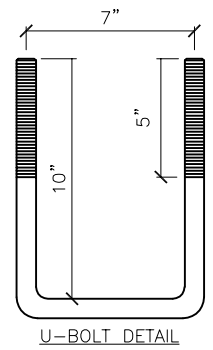


DETAIL A
N.T.S.



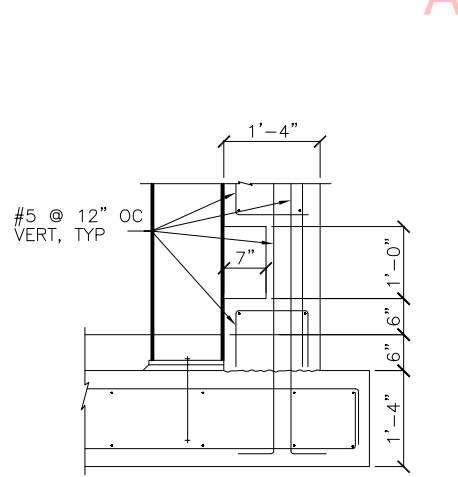
RAIL ATTACHMENT AT CONCRETE
1 1/2"=1'

- NOTES:
1. REBAR SHOWN IS TYPICAL FOR LOCAL REINFORCEMENT UNDER TRACK.
 2. WHEEL POCKET MAY BE FORMED USING SOLID WOOD OR FABRICATED STEEL BOX SECTION.
 3. GROUT IS CONTINUOUS UNDER TRACK.
 4. FOR ELECTRICAL GROUNDING AND BONDING, SEE ELECTRICAL PLANS.
 5. U-BOLT PER ASTM A307, THREAD 10 UNC 2A, NUT PER ASTM A563, WASHER PER ASTM F436



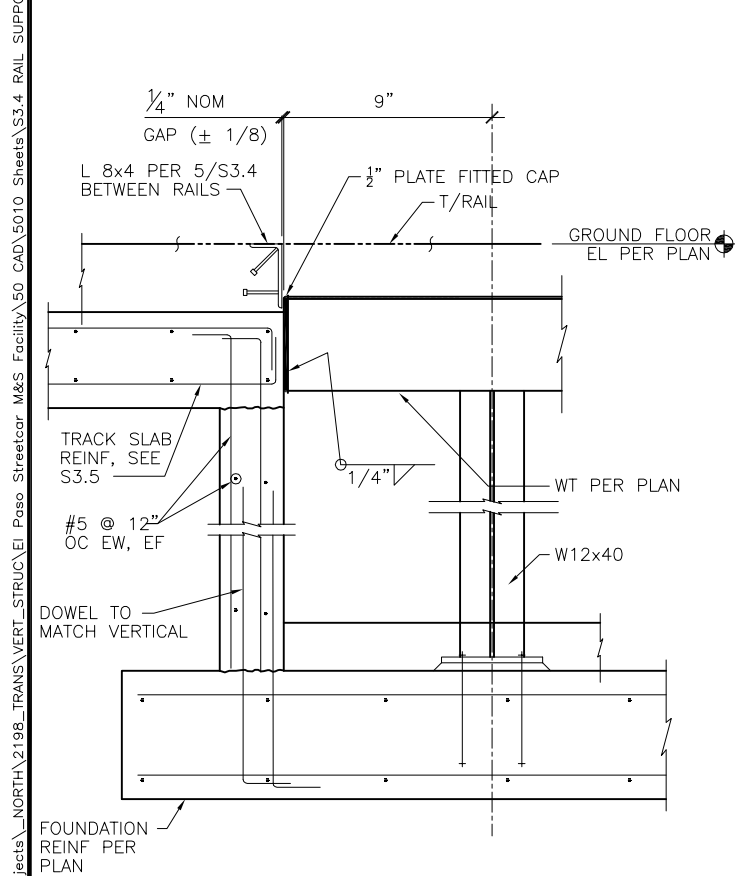
TYP RAIL ATTACHMENT AT STEEL
1 1/2"=1'

- NOTES:
1. CONNECT RAIL TO WT PER DETAIL A.
 2. FOR ELECTRICAL GROUNDING AND BONDING, SEE ELECTRICAL PLANS.



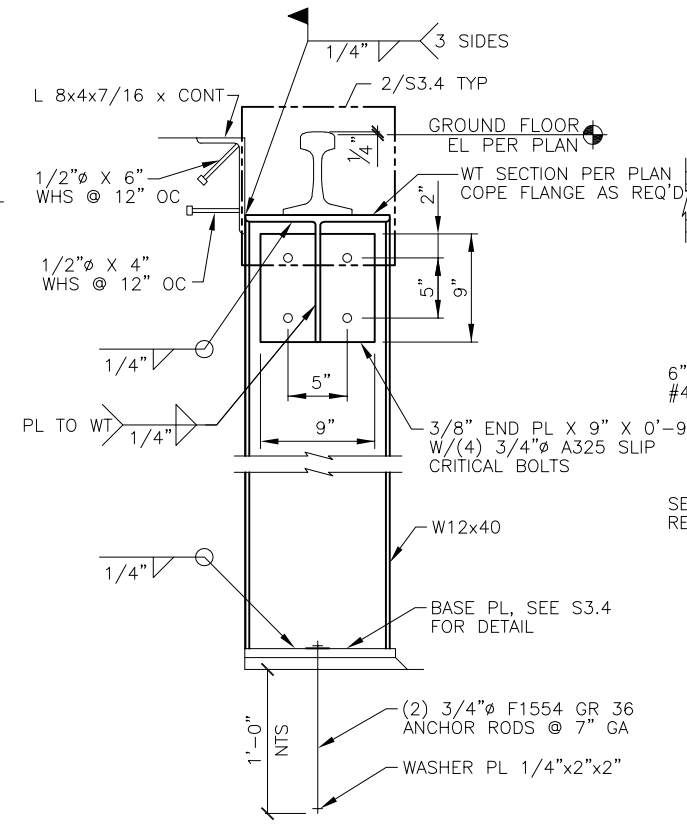
TYP LIGHT RECESS @ INSPECTION PIT
3 8"=1'

SEE ARCHITECTURAL DRAWINGS FOR RECESSED LIGHTING INFO.

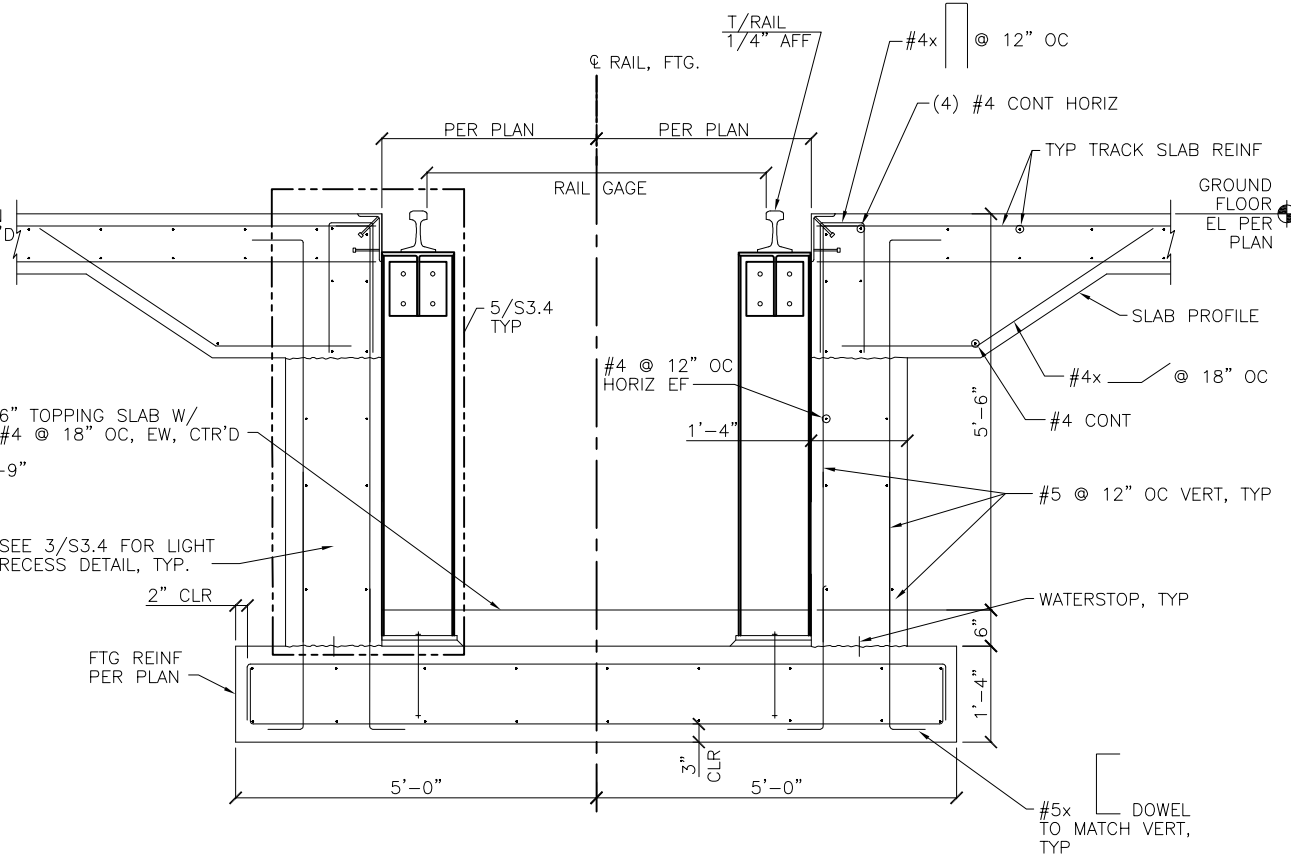


INSPECTION PIT SECTION
NOT TO SCALE

NOTE: SEE TYP DETAILS FOR PIT STAIR



RAIL SUPPORT AT PIT
3 4"=1'



SECTION AT INSPECTION PIT
3 8"=1'

NO	DATE	REVISION	APPROVED

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El Paso, Texas 79903
(915) 493-6468
TBPE REGISTRATION NO. F-3162

COEP STREETCAR
MAINTENANCE + STORAGE
FACILITY
RAIL SUPPORT
DETAILS 1



S3.4

CONT	SECT	JOB	HIGHWAY
			VARIOUS
DIST	COUNTY	SHEET NO.	
EL PASO	EL PASO	1330	

DATE: 07/23/2015 6:34PM
FILE: \\URS\Dallas\Projects\NORTH 2198_TRANS\VERT_STRUC\El Paso Streetcar M&S Facility\50 CAD\5010 Sheets\S3.4 RAIL SUPPORT DETAILS.DWG (DGN: URS)