

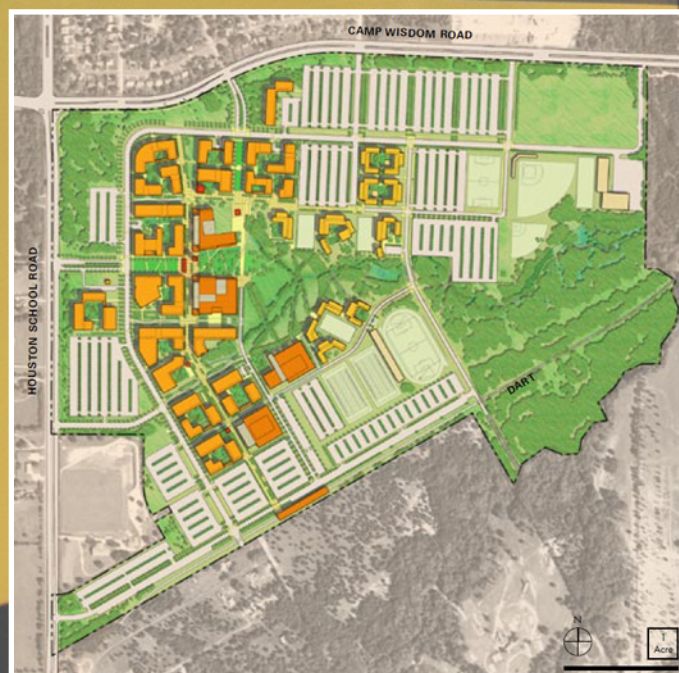


South Oak Cliff Corridor Blue Line Extension

Draft Local Environmental Assessment
Appendix C
5% Design Plan and Profile Drawings

Prepared by:
Dallas Area Rapid Transit

October 2012



SOUTH OAK CLIFF CORRIDOR BLUE LINE EXTENSION (SOC -3) PE / EA LEDBETTER STATION TO UNT DALLAS STATION

5 % PRELIMINARY ENGINEERING DESIGN
DART SUBSURFACE UTILITY ENGINEERING (SUE) PACKAGE
10 % STATION DESIGN PLANS



PRELIMINARY FOR INTERIM REVIEW ONLY	
By C. ALLEN	P.E.# 88427
Date 14 SEPT 2012	
URS CORPORATION TBPE ID #F-3162 NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES	

CITY OF DALLAS APPROVAL
RECOMMENDED:

PROJECT MANAGER _____ DATE _____

APPROVED:

DIRECTOR OF PUBLIC WORKS _____ DATE _____

GENERAL PLANNING CONSULTANT

RECOMMENDED:

PROJECT MANAGER _____ DATE _____

APPROVED:

PROGRAM MANAGER _____ DATE _____

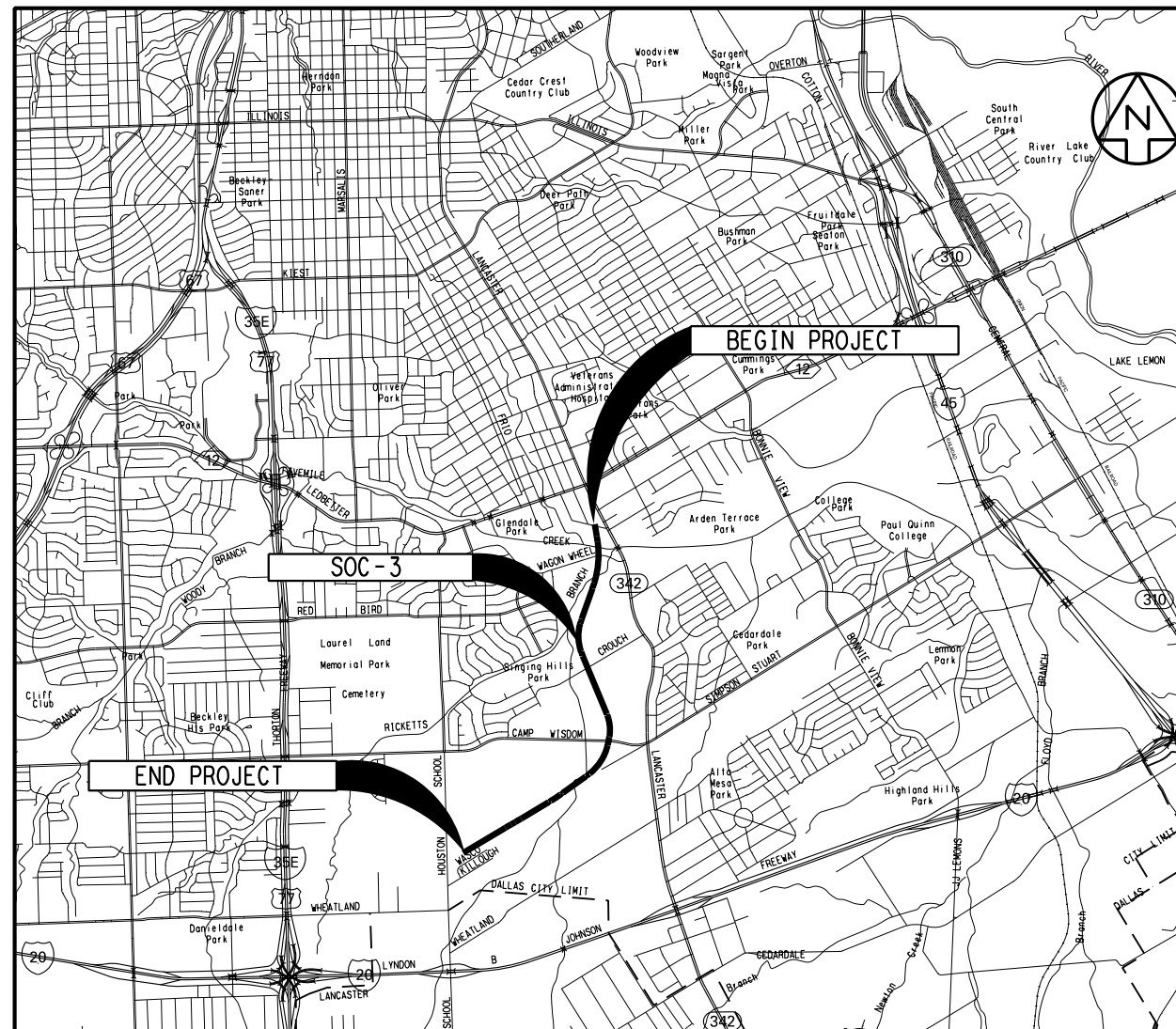
DALLAS AREA RAPID TRANSIT

RECOMMENDED:

PROJECT MANAGER _____ DATE _____

APPROVED:

VP RAIL PLANNING _____ DATE _____



VICINITY MAP
NO SCALE

**SOUTH OAK CLIFF CORRIDOR
BLUE LINE EXTENSION (SOC -3) PE/EA
LEDBETTER STATION TO UNT DALLAS STATION**

INDEX OF DRAWINGS

SHEET NO.	REV. NO.	DWG. NO.	DRAWING TITLE
1			COVER
2			TITLE SHEET
3-4			GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
5-6			PROJECT KEY PLAN
7-8			HORIZONTAL ALIGNMENT SCHEMATIC
9			HORIZONTAL ALIGNMENT DATA SOUTHBOUND TRACK
10			HORIZONTAL ALIGNMENT DATA NORTHBOUND TRACK
11			HORIZONTAL ALIGNMENT DATA MAINTENANCE TRACK
12-29			RIGHT-OF-WAY PLANS
30-34			GUIDEWAY TYPICAL SECTIONS
35-39			STRUCTURAL TYPICAL SECTIONS
40-57			GUIDEWAY PLAN AND PROFILE
58-60			DRAINAGE AREA MAPS
61			DRAINAGE CALCULATIONS
62-79			EXISTING UTILITY COMPOSITE PLANS

HORIZONTAL AND VERTICAL CONTROL DRAWINGS

SHEET NO.	DRAWING TITLE
1-6	HORIZONTAL AND VERTICAL CONTROL

DART SUE PACKAGE

SHEET NO.	DRAWING TITLE
1	OVERALL UTILITY MAP
1-5	DART SUE SHEETS

10% STATION DESIGN PLANS

SHEET NO.	DRAWING TITLE
1	LEDBETTER STATION CIVIL SITE PLAN
2	LEDBETTER STATION CIVIL SITE DEMO PLAN
3	LEDBETTER STATION GRADING PLAN
4	LEDBETTER STATION DRAINAGE PLAN
5-6	LEDBETTER STATION ARCHITECTURAL DEMO PLANS
7	LEDBETTER STATION ARCHITECTURAL SITE PLAN
8-12 (SHEET 9 NOT USED)	LEDBETTER STATION ARCHITECTURAL PLATFORM PLANS
13-14	LEDBETTER STATION ARCHITECTURAL CROSS SECTIONS
15	LEDBETTER STATION ARCHITECTURAL ELEVATIONS
16	LEDBETTER STATION ARCHITECTURAL RETAINING WALL DETAILS
17	CAMP WISDOM STATION CIVIL SITE PLAN
18	CAMP WISDOM STATION GRADING PLAN
19	CAMP WISDOM STATION DRAINAGE AREA MAP
20	CAMP WISDOM STATION DRAINAGE PLAN
21	CAMP WISDOM STATION PROPOSED UTILITY PLAN
22	CAMP WISDOM STATION ARCHITECTURAL SITE PLAN
23-26	CAMP WISDOM STATION ARCHITECTURAL PLATFORM PLANS
27	CAMP WISDOM STATION ARCHITECTURAL CROSS SECTION
28	CAMP WISDOM STATION ARCHITECTURAL ELEVATIONS
29-30	UNT DALLAS STATION CIVIL SITE PLANS
31-32	UNT DALLAS STATION CIVIL GRADING PLANS
33	UNT DALLAS STATION DRAINAGE AREA MAP
34-35	UNT DALLAS STATION DRAINAGE PLANS
36-37	UNT DALLAS STATION PROPOSED UTILITY PLANS
38	UNT DALLAS STATION ARCHITECTURAL SITE PLAN
39-42	UNT DALLAS STATION ARCHITECTURAL PLATFORM PLANS
43	UNT DALLAS STATION ARCHITECTURAL CROSS SECTIONS
44	UNT DALLAS STATION ARCHITECTURAL ELEVATIONS

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CONTRACT SHEET No. 2 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

DART

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SCALE
DRAWN D. KRUCIAK
DESIGNED C. KESTILA/J. YEOW
CHECKED C. ALLEN
IN CHARGE P. ZHAO
DATE 14 SEPT 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

TITLE SHEET

CONTRACT	DWG No.	REV
	GC1-0002	

ABBREVIATIONS

GENERAL NOTES:

- 1. THE CONSTRUCTION OF THE SOC-3 GUIDEWAY SHALL CONFORM TO DART STANDARD DRAWINGS AND STANDARD SPECIFICATIONS. ANY EXCEPTIONS TO THE DART STANDARD DRAWINGS AND STANDARD SPECIFICATIONS WILL NEED TO BE APPROVED BY DART.
2. WORK INVOLVING DRAINAGE FACILITIES, STREET RECONSTRUCTION OR OTHER PUBLIC IMPROVEMENTS WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS OF THE CITY OF DALLAS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
3. WORK INVOLVING OTHER UTILITIES (ELECTRIC POWER, GAS, TELEPHONE, CABLE TELEVISION & FIBER/COMMUNICATIONS) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNING/OPERATING UTILITY COMPANY.
4. THE SOC-3 5% DESIGN DRAWINGS HAVE BEEN GENERATED BASED UPON AERIAL MAPPING DATA PREPARED FROM A FLIGHT PERFORMED SPECIFICALLY FOR THIS PROJECT BY AERIAL DATA SERVICE IN MARCH OF 2012. AERIAL MAPPING WAS PROVIDED FOR AN 800-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT SOUTH OF CAMP WISDOM ROAD AND A 1,600-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT NORTH OF CAMP WISDOM ROAD.
5. THE RIGHT TRACK IS DETERMINED BY LOOKING IN THE DIRECTION OF INCREASING STATIONING. THIS TRACK IS REFERENCED AS THE SOUTHBOUND (SB) TRACK AND IS ALSO THE STATIONING CONTROL TRACK.
6. ALL UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. UTILITY INFORMATION IS BASED UPON EXISTING UTILITY PLANS PROVIDED BY THE CITY OF DALLAS AND PRIVATE UTILITY OWNERS. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED EXCEPT BY FIELD MEASUREMENT.
7. DRAINAGE DITCHES SHOWN ON THE TYPICAL SECTIONS ARE CONCEPTUAL ONLY AND WILL NEED TO BE SIZED FOR HYDRAULIC CAPACITY DURING FINAL DESIGN.
8. THE PROPOSED ROW SHOWS THE APPROXIMATE REQUIREMENTS NEEDED TO CONSTRUCT THE SOC-3 RAIL SYSTEM. FINAL SECTION DESIGNER SHALL VERIFY THE ACTUAL ROW NEEDS DURING FINAL DESIGN.
9. FLOODPLAIN BOUNDARIES SHOWN IN THE PLANS WERE OBTAINED FROM THE CITY OF DALLAS FLOODPLAIN COORDINATOR. THE FLOODPLAIN LIMITS REPRESENT THE SPECIAL FLOOD HAZARD AREA AS SHOWN ON THE PRELIMINARY FEMA FIRM PANELS FOR THE CITY OF DALLAS DATED JUNE OF 2007 WHICH ARE STILL UNDER REVIEW BY THE CITY OF DALLAS AND FEMA. THESE ARE NOT THE FLOODPLAIN BOUNDARIES CURRENTLY SHOWN ON THE EFFECTIVE FIRM PANELS FOR THE CITY OF DALLAS.
10. 100-YEAR WATER SURFACE ELEVATIONS SHOWN IN THE PLANS WERE OBTAINED FROM FLOOD PROFILES SHOWN IN THE FEMA FLOOD INSURANCE STUDY FOR DALLAS COUNTY, TEXAS AND INCORPORATED AREAS AS REVISED ON FEBRUARY 5, 2003.

ABBREVIATIONS (CONT'D)

Table with 2 columns: Abbreviation and Description. Includes entries like TMH TELEPHONE MANHOLE, TO TURNOUT, TOD TRANSIT ORIENTED DEVELOPMENT, TPSS TRACTION POWER SUBSTATION, T/R TOP OF RAIL, TRA TRINITY RIVER AUTHORITY, TS TANGENT TO SPIRAL POINT, TXDOT TEXAS DEPARTMENT OF TRANSPORTATION, TY TYPE, TYP TYPICAL, UG UNDERGROUND, UGT UNDERGROUND TELEPHONE, UP UNION PACIFIC RAILROAD, USC&GS U.S. COAST & GEODETIC SURVEY, V VELOCITY, WBFR WESTBOUND FRONTAGE ROAD, WBML WESTBOUND MAINLANE, WL WATER LINE, WM WATER METER, WSEL WATER SURFACE ELEVATION, WV WATER VALVE, WW WASTEWATER, WWF WELDED WIRE FABRIC, YR YEAR.

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CONTRACT SHEET No. 3 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

GENERAL NOTES
AND ABBREVIATIONS

CONTRACT DWG No. GC1-0003 REV

8/2/2012 \\dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-GEN\SOC3-GC1-0003.001
June L. Yeow, V&I
\$BMODEL\$

Table with 2 columns: Abbreviation and Description. Includes entries like A AREA, AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, ABUT ABUTMENT, AC ACRE, ACP ASBESTOS CEMENT PIPE, ADA AMERICANS WITH DISABILITIES ACT, A/G AT GRADE, AHD AHEAD, ALT ALTERNATE, ALUM ALUMINUM, APPROX. APPROXIMATE, APT AREA PERSONAL TRANSIT, ASPH ASPHALT, AVE AVENUE, B/B BACK TO BACK, B/C BACK OF CURB, BCCP BITUMINOUS COATED CORRUGATED PIPE, BD BALLAST DRAIN, BH BORED HOLE, BK BACK, BLDG BUILDING, BLVD BOULEVARD, BNSF BNSF RAILWAY, B.M. BENCH MARK, BOT BOTTOM, BRG BEARING, CB CATCH BASIN, C RUNOFF COEFFICIENT, CC CENTER OF CURVE, CF CUBIC FEET, CFS CUBIC FEET PER SECOND, CG CONCRETE GUTTER, C&G CURB AND GUTTER, CI CAST IRON, CURB INLET, CIP CAST IRON PIPE, CAST IN PLACE, CL CLASS, C/L CURB LINE, CMP CORRUGATED METAL PIPE, CO CLEAN OUT, COD CITY OF DALLAS, COI CITY OF IRVING, COL COLUMN, COMM COMMUNICATIONS, CONC CONCRETE, CONST CONSTRUCT, CP CONTROL POINT, CS CURVE TO SPIRAL POINT, CTR CENTER, CULV CULVERT, CWR CONTINUOUS WELDED RAIL, CY CUBIC YARD, DART DALLAS AREA RAPID TRANSIT, DBL DOUBLE, D,DEG DEGREE OF CURVE, DFW DALLAS/FORT WORTH INTERNATIONAL AIRPORT, D/FW DALLAS/FORT WORTH, DI DUCTILE IRON, DIA DIAMETER, DIP DUCTILE IRON PIPE, DIST DISTANCE, D.M.S. DEGREE MINUTE SECOND, DR DRIVE, DWG DRAWING, DWU DALLAS WATER UTILITY, E EAST, ELECTRIC, Eo ACTUAL SUPERELEVATION IN INCHES, EBFR EASTBOUND FRONTAGE ROAD, EBML EASTBOUND MAINLANE, EL OR ELEVATION, ENCSMT ENCASMENT.

Table with 2 columns: Abbreviation and Description. Includes entries like ESMT EASEMENT, Es EXTERNAL DISTANCE OF SPIRAL CURVE, Eu SUPERELEVATION UNBALANCED IN INCHES, EX. OR EXIST., EXIST. EXISTING, FAA FEDERAL AVIATION ADMINISTRATION, FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY, FF FINISHED FLOOR, FH FIRE HYDRANT, FIG. FIGURE, FIRM FLOOD INSURANCE RATE MAP, FL FLOW LINE, FLG FLANGE, F TO F FACE TO FACE, FOC FIBER OPTIC CABLE, FRWY FREEWAY, FT FOOT OR FEET, FW FORT WORTH, G GAS, GA GAUGE, GI GRATE INLET, GM GAS METER, GP GRAND PRAIRIE, GV GATE VALVE, H.C. HANDICAP, HMAC HOT MIX ASPHALTIC CONCRETE, HR HOUR, HPG HIGH PRESSURE GAS LINE, HORZ HORIZONTAL, HWY HIGHWAY, I RAINFALL INTENSITY, ICLRT INTERMEDIATE CAPACITY LIGHT RAIL TRANSIT, IN. INCH, INV INVERT, ISF INSIDE FACE, K RATE OF VERTICAL CURVATURE, KV KILOVOLT, L LEFT (DEFLECTION), Lc TOTAL LENGTH OF CIRCULAR CURVE, LF LINEAR FEET, LH LEFT HAND, LN LANE, LNG LIQUEFIED NATURAL GAS LINE, LRT LIGHT RAIL TRANSIT, Ls TOTAL LENGTH OF SPIRAL, LSG LONE STAR GAS, LT LEFT, LVC LENGTH OF VERTICAL CURVE, MAX MAXIMUM, MCB MULTIPLE CONDUIT BANK, MH MANHOLE, MIN MINUTES OR MINIMUM, ML MAINLANE, MPH MILES PER HOUR, MSE MECHANICALLY STABILIZED EARTH, N NORTH, NB NORTHBOUND, NBFR NORTHBOUND FRONTAGE ROAD, NBML NORTHBOUND MAINLANE, NG NATURAL GROUND, NATURAL GAS, NCTCOG NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, NIC NOT IN CONTRACT, No. NUMBER, NTS NOT TO SCALE, OC ON CENTERS, OCEW ON CENTER EACH WAY, OH OVERHEAD, OHE OVERHEAD ELECTRIC, ONCOR ONCOR ELECTRIC DELIVERY, ORD ORDINATE, PC POINT OF CURVE, PCC POINT OF COMPOUND CURVE.

Table with 2 columns: Abbreviation and Description. Includes entries like PE POLYETHYLENE, PEJ PREFORMED EXPANSION JOINT, PERM PERMANENT, PF POINT OF FROG, PG PROFILE GRADE, PGL PROFILE GRADE LINE, PI POINT OF INTERSECTION, PITO POINT OF INTERSECTION-TURNOUT, PKWY PARKWAY, PL PROPERTY LINE, POB POINT OF BEGINNING, POC POINT ON CURVE, POE POINT OF ENDING, POLY POLYETHYLENE, POS POINT ON SPIRAL, POT POINT ON TANGENT, PS POINT OF SWITCH, PREM PREMOLDED, PRES PRESIDENT, PROP PROPOSED, PROT PROTECTION, PT POINT OF TANGENT, PVC POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE PIPE, PVI POINT OF VERTICAL INTERSECTION, PVMT PAVEMENT, PVRC POINT OF VERTICAL REVERSE CURVATURE, PVT POINT OF VERTICAL TANGENT, Q STORM WATER DISCHARGE, R RADIUS, RCB REINFORCED CONCRETE BOX CULVERT, RCCP REINFORCED CONCRETE CYLINDER PIPE, RCP REINFORCED CONCRETE PIPE, RD ROAD, REFL REFLECTIVE, RH RIGHT HAND, ROW RIGHT OF WAY, RR RAILROAD, R1 RIGHT (DEFLECTION), RSC RAILROAD SIGNAL CABLE, RT RIGHT, S SOUTH, SLOPE, SB SOUTHBOUND, SBFR SOUTHBOUND FRONTAGE ROAD, SBML SOUTHBOUND MAINLANE, SC SPIRAL TO CURVE POINT, SD STORM DRAIN, SEJ SEALED EXPANSION JOINT, S & I SERVICE & INSPECTION, SH STATE HIGHWAY, SHT SHEET, SIG SIGNAL, SMH SEWER MANHOLE, SS SANITARY SEWER, ST SPIRAL TO TANGENT POINT, STREET, STA STATION, STD STANDARD, STL STEEL, STM STORM, SUE SUB-SURFACE UTILITY ENGINEERING, SURF SURFACE, SWR SEWER, T LENGTH OF TANGENT, TELEPHONE, T1 TOTAL LENGTH OF TANGENT, T(UG) UNDERGROUND TELEPHONE, TBM TEMPORARY BENCH MARK, TBR TO BE REMOVED, Tc TIME OF CONCENTRATION, TEMP TEMPORARY, TG TELEGRAPH, TGMH TELEGRAPH MANHOLE, TLWY TOLLWAY.

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Table with 7 columns: REV, AMEND, CR, DATE, DESCRIPTION, BY, ENG, CHK, APP. Includes a grid for revision tracking.

Table with 2 columns: Field and Value. Includes SCALE NO SCALE, DRAWN D. KING, DESIGNED C. KESTILA/J. YEOW, CHECKED C. ALLEN, IN CHARGE P. ZHAO, DATE 03 AUG 12.

Table with 3 columns: CONTRACT, DWG No., REV. Values: CONTRACT, GC1-0003, REV.

SYMBOLS

- PROFILE GRADE LINE / ELEVATION CONTROL POINT
- DIRECTION OF FLOW
- C OR B CENTERLINE OR BASELINE
- FUTURE OR NOT IN CONTRACT
- CENTERLINE
- BASELINE
- PROPERTY LINE
- DIMENSION LINE CONTINUES
- MATCH LINE
- 510 CONTOUR LINE
- TRACK (TRANSIT) CENTERLINE
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- STRUCTURE OUTLINE
- RAILROAD TRACKS
- CLEANOUT
- MANHOLE
- SIDEWALK AND MISC. LINES
- DROP INLET, CATCH BASIN OR DRAIN - TO SCALE
- CULVERT HEADWALLS - TO SCALE
- SPOT ELEVATION
- CURB LINE
- EXISTING BARRIER/RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED BALLAST WALL
- NOISE IMPACT AREA
- GUARDRAIL
- HANDRAIL
- UNPAVED ROADS
- CONCRETE GUARD FENCE
- VEGETATION LINE
- TREE
- SHRUB
- POLE

- TL TRAFFIC POLE
- UTILITY POLE
- SS SANITARY (DIRECTION OF FLOW), PLUG
- GRID OF THE STATE PLANE COORDINATE SYSTEM
- BILLBOARD
- TOTAL CENTRAL ANGLE OF SPIRAL AND CIRCULAR CURVES
- C1 SUFFIX (1) AT THE SYMBOL DENOTES DATA FOR THE FIRST CIRCULAR CURVE OF A COMPOUND CURVE
- C2 SUFFIX (2) AT THE SYMBOL DENOTES DATA FOR THE SECOND CIRCULAR CURVE OF A COMPOUND CURVE
- S CENTRAL ANGLE OF SPIRAL OR SPIRAL ANGLE
- oAC CENTRAL ANGLE OF COMPOUND SPIRAL OR COMPOUND ANGLE (CS1 TO CS2)
- oSAT TOTAL CENTRAL ANGLE OF COMPOUND SPIRAL OR TOTAL COMPOUND SPIRAL ANGLE (FROM SPO TO SC2)
- SMH SANITARY OR STORM SEWER MANHOLE
- EMH, TMH, WUMH ELECTRICAL, TELEPHONE, OR WESTERN UNION MANHOLE
- REDUCER
- WM WATER METER
- WV WATER VALVE
- FH FIRE HYDRANT
- CAP OR PLUG
- GV GAS VALVE
- GM GAS METER
- PB PULL BOX OR SPLICING CHAMBER
- FS LIGHT POLE
- FIRE SERVICE STAND PIPE
- TRAFFIC SIGN
- POLE GUY AND ANCHOR
- TRANSMISSION LINE TOWER
- TRAFFIC CONTROL GATE
- (O/H) TEST BORING LOCATION
- (O/H) E OVERHEAD ELECTRIC LINES
- UG(T) UNDERGROUND TELEPHONE LINE
- UG(E) UNDERGROUND ELECTRIC LINE

- AERIAL UTILITY
- UTILITY FACILITY LESS THAN 24"
- MAJOR UTILITY FACILITY 24" OR LARGER IN PLAN VIEW
- FACILITY TO BE ABANDONED
- DOUBLE CROSSOVER
- POINT OF SWITCH
- EXISTING DITCH
- PROPOSED DITCH
- DITCH PROPOSED SPECIAL DITCH
- SD STORM DRAIN
- UD UNDERDRAIN
- SS SANITARY SEWER
- W WATER LINE
- G GAS LINE
- TS TRAFFIC SIGNALIZATION LINE
- E ELECTRIC POWER LINE
- OHE OVERHEAD ELECTRIC LINE
- T TELEPHONE LINE
- TG TELEGRAPH LINE
- TV CABLEVISION LINE
- PROPOSED CASING
- PROPOSED STREET CLOSING
- PROPOSED STATION PLATFORM
- EXISTING STREET/RAILROAD RIGHT-OF-WAY LINE
- EXISTING PROPERTY LINE
- DART PROPOSED RIGHT-OF-WAY LINE
- EXISTING EASEMENT LINE
- DART PROPOSED EASEMENT LINE
- EXIST SET COPPER, IRON PIN, PIPE IRON ROD MARKERS OR ANY PROPERTY CORNER
- RIGHT-OF-WAY OR CONTROL MONUMENT OR MARKERS
- EXISTING INTERSECTION OF PROPERTY LINES
- INTERSECTION OF PROPOSED DART RIGHT-OF-WAY LINES
- PROPOSED DART RIGHT-OF-WAY MONUMENT

- LEFT HAND TURNOUT
- RIGHT HAND TURNOUT
- DERAIL SWITCH
- P1/PV1/PITO
- NON-INSULATED JOINT
- SWITCH NUMBERING "F" INDICATES FUTURE
- I3-A CURVE NUMBER
- BLUE FLAG
- BUMPING POST
- EQUILATERAL TURNOUT
- GABION BLANKET
- STREET/DRIVE RECONSTRUCTION

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CONTRACT SHEET No. 4 OF 79

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

SYMBOLS

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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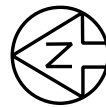
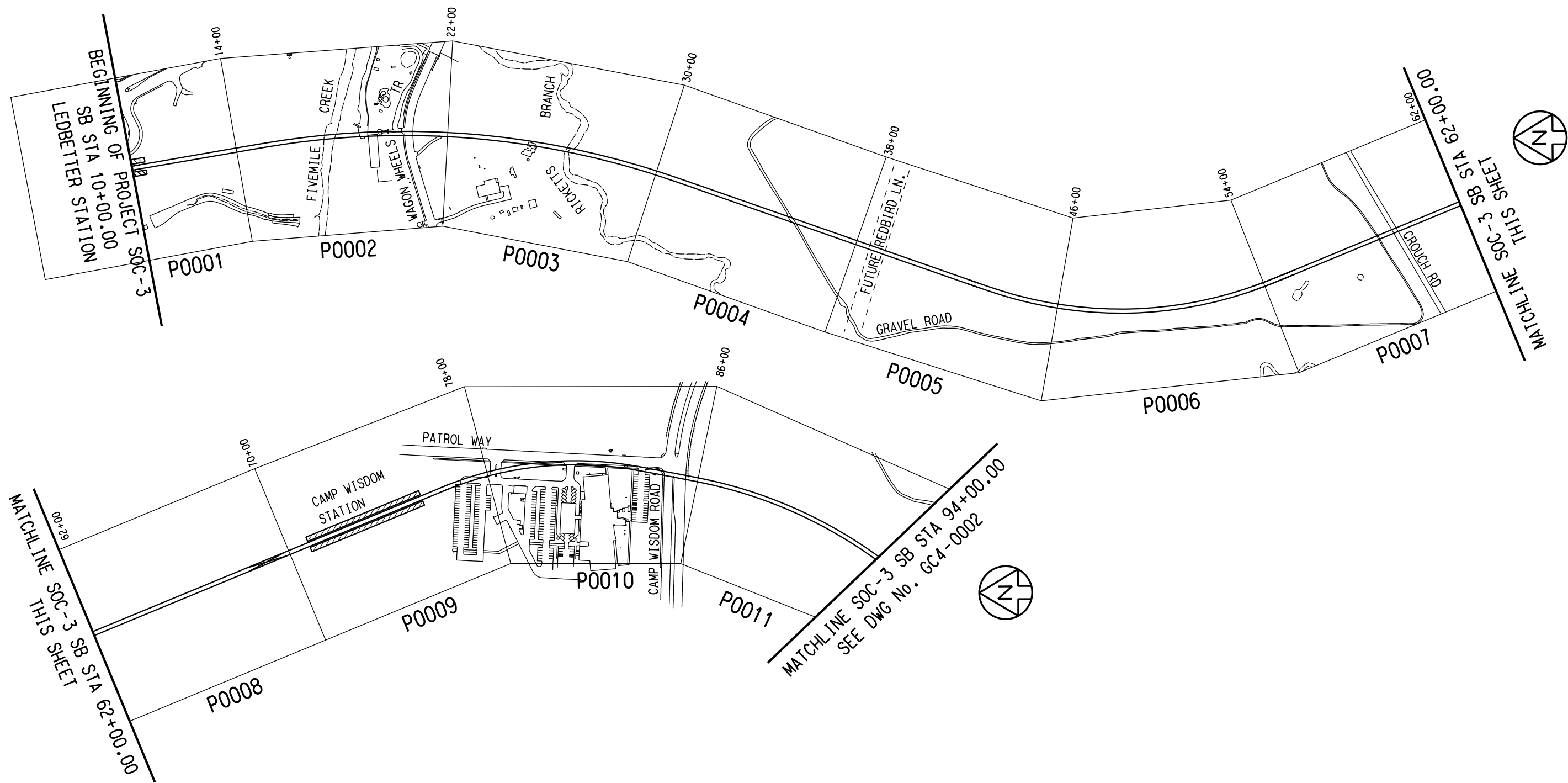
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SCALE	NO SCALE
DRAWN	D. KRUCIAK
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
TN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT	DWG No. GC1-0004	REV
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LINE SECTION SOC-3 GUIDEWAY PLAN AND PROFILE KEY PLAN



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CONTRACT SHEET No. 5 OF 79

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
PROJECT KEY PLAN
SHEET 1 OF 2**

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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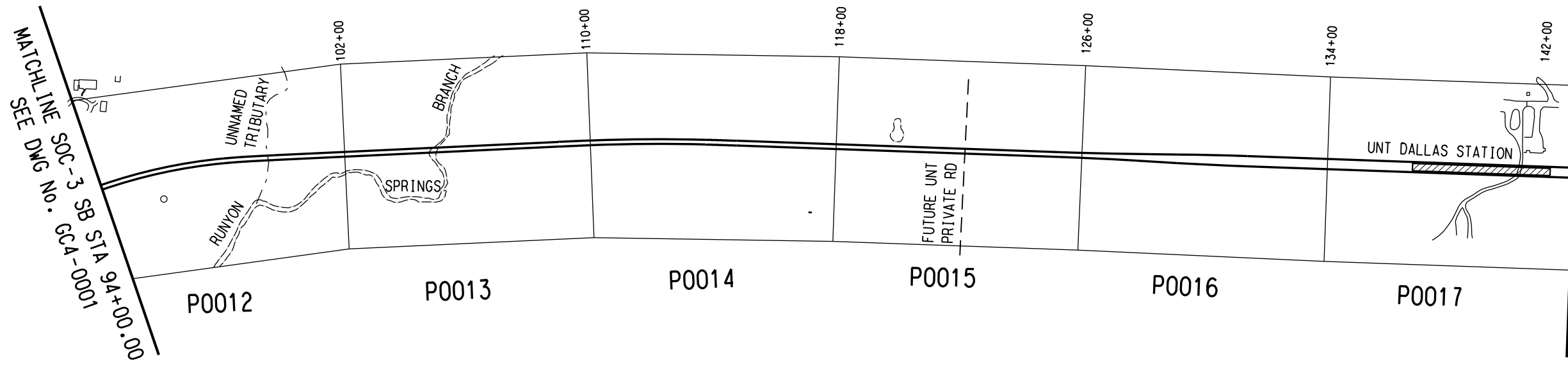
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SCALE	1"=200'
DRAWN	D. KING
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

	CONTRACT	DWG No.	GCA-0001	REV
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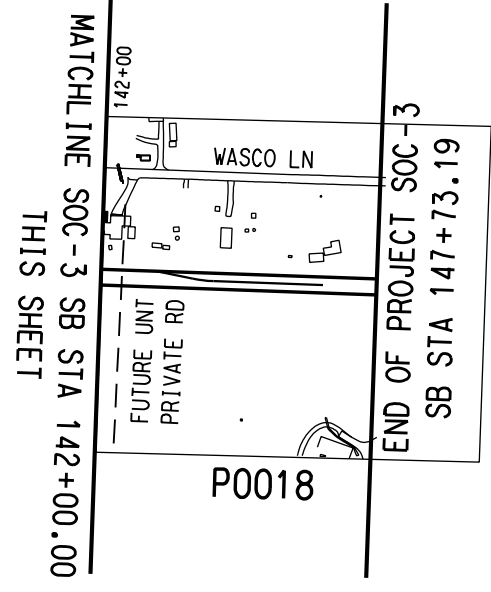
8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-GEN\SOC3-GCA-0001.200
 June 1, Yeow, VB1
 \$\$\$MODEL\$\$

LINE SECTION SOC-3 GUIDEWAY PLAN AND PROFILE KEY PLAN



MATCHLINE SOC-3 SB STA 94+00.00
SEE DWG NO. GC4-00011

MATCHLINE SOC-3 SB STA 142+00.00
THIS SHEET



MATCHLINE SOC-3 SB STA 142+00.00
THIS SHEET

END OF PROJECT SOC-3
SB STA 147+73.19



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CONTRACT SHEET No. 6 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

PROJECT KEY PLAN
SHEET 2 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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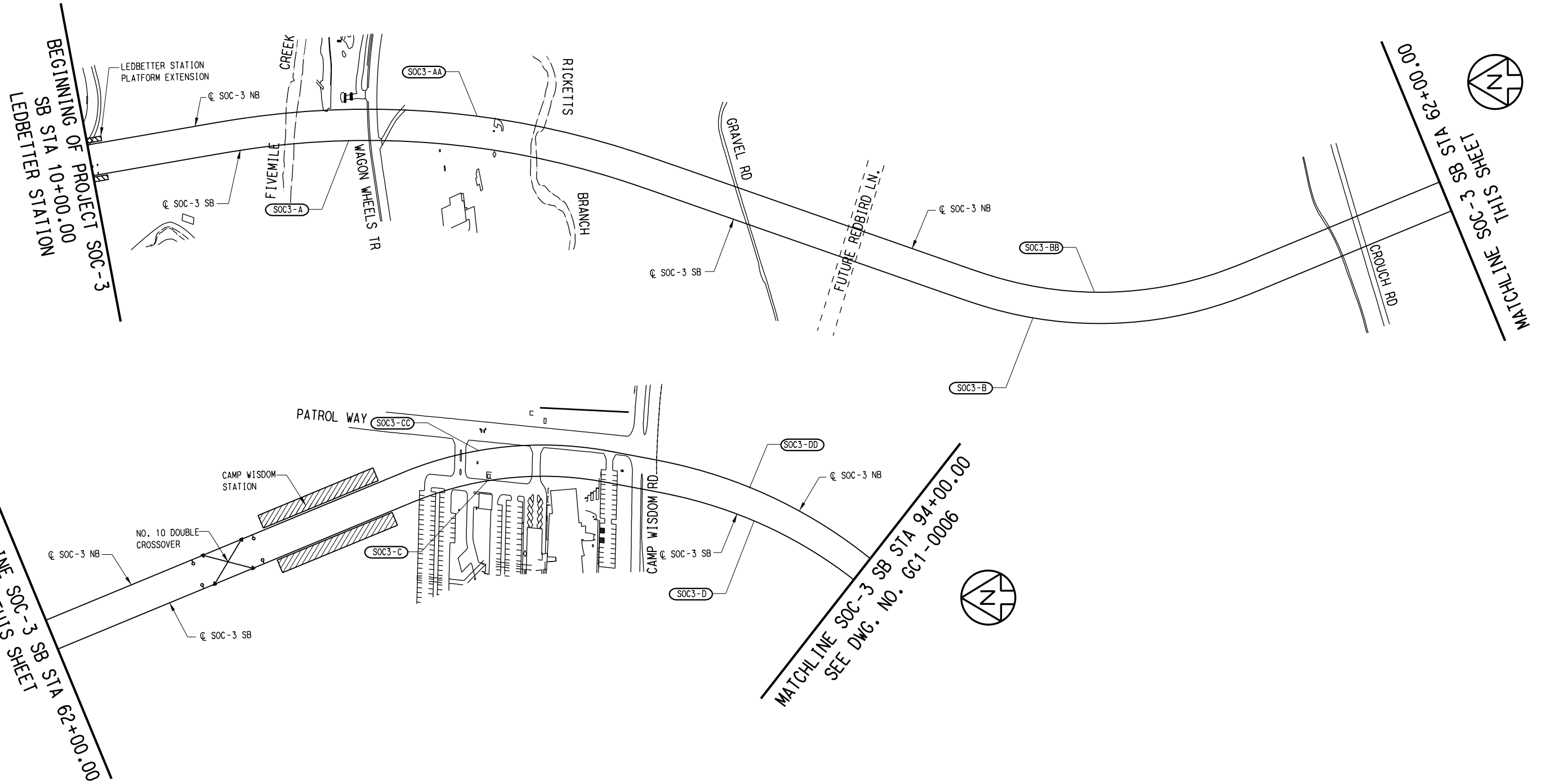
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DRAWN	D. KING
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT	DWG No. GC4-0002	REV
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LINE SECTION SOC-3 HORIZONTAL ALIGNMENT SCHEMATIC



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CONTRACT SHEET No. 7 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

HORIZONTAL ALIGNMENT
SCHEMATIC
SHEET 1 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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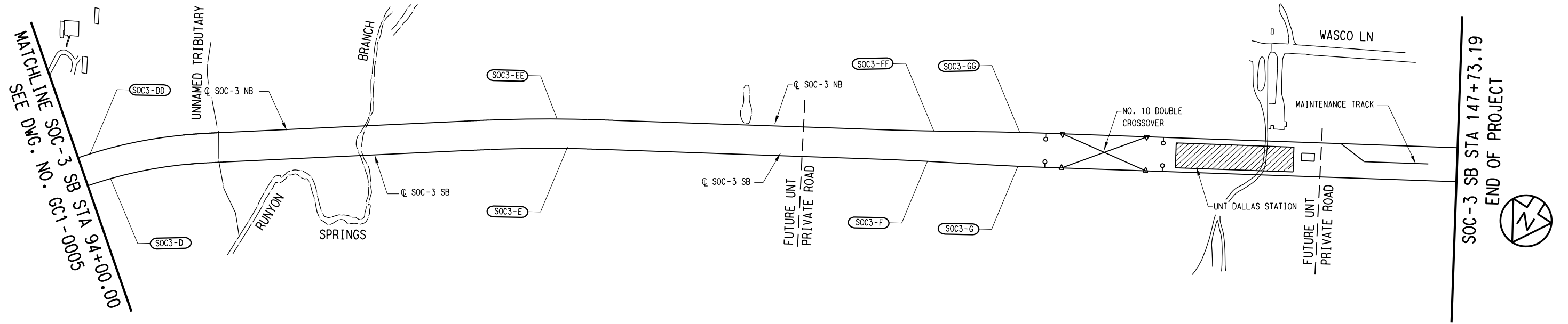
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SCALE	NO SCALE
DRAWN	D. KRUCIAK
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT	DWG No.	GC1-0005	REV
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LINE SECTION SOC-3 HORIZONTAL ALIGNMENT SCHEMATIC



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CONTRACT SHEET No. 8 OF 79

LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3

HORIZONTAL ALIGNMENT SCHEMATIC SHEET 2 OF 2

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CONTRACT	DWG No.	REV
	GC1-0006	

LINE SECTION SOC-3 HORIZONTAL ALIGNMENT DATA CENTERLINE OF SOUTHBOUND TRACK

CURVE OR POINT	POINT	STATION	TOTAL CENTRAL ANGLE (D.M.S.)	TANGENT (FT)	RADIUS (FT)	Lc (FT)	Ls (FT)	Ea (IN.)	Eu (IN.)	PASSENGER SPEED (MPH)	SURFACE		GRID	
											NORTHING	EASTING	NORTHING	EASTING
BEGIN SOC3-SB	POB	10+00.0000									6,936,584.5288	2,495,319.3553	6,935,637.7726	2,494,978.7757
SOC3-A	TS SC PI CS ST	14+03.8120 15+98.8120 23+01.3491 29+80.5469 31+75.5469	25° 32' 16.5" (RT)	702.5370	3,100.0000	1381.7349	195.0000	3.25	1.41	60	6,936,186.6941 6,935,994.2492 6,935,298.6665 6,934,628.5325 6,934,443.8029	2,495,388.5774 2,495,419.9874 2,495,518.5928 2,495,307.6927 2,495,245.2699	6,935,239.9922 6,935,047.5736 6,934,352.0858 6,933,682.0433 6,933,497.3389	2,495,047.9884 2,495,079.3941 2,495,177.9860 2,494,967.1147 2,494,904.7004
SOC3-B	TS SC PI CS ST	42+46.8275 44+11.8275 48+96.9443 53+50.8215 55+15.8215	35° 30' 00.3" (LT)	485.1168	1,515.5000	938.9940	165.0000	3.00	1.23	40	6,933,432.5513 6,933,275.8553 6,932,809.8886 6,932,352.1684 6,932,198.5928	2,494,891.6989 2,494,840.0832 2,494,705.1263 2,494,865.8448 2,494,926.1139	6,932,486.2253 6,932,329.5507 6,931,863.6476 6,931,405.9899 6,931,252.4353	2,494,551.1777 2,494,499.5690 2,494,364.6306 2,494,525.3271 2,494,585.5880
NO. 10 TO	PS PITO	67+96.6417 68+28.0617									6,931,014.9841 6,930,985.9488	2,495,415.5737 2,495,427.5807	6,930,068.9881 6,930,039.9568	2,495,074.9810 2,495,086.9864
NO. 10 TO	PITO PS	69+82.6772 70+13.8629									6,930,843.0683 6,930,814.2495	2,495,486.6663 2,495,498.5838	6,929,897.0958 6,929,868.2809	2,495,146.0639 2,495,157.9798
SOC3-C	TS SC PI CS ST	75+99.2691 76+49.2691 80+08.2764 83+49.8232 83+99.8232	30° 52' 33.6" (RT)	359.0074	1,300.0000	700.5541	50.0000	1.25	1.53	30	6,930,273.2744 6,930,226.9486 6,929,892.6123 6,929,538.5400 6,929,489.3381	2,495,722.2942 2,495,741.1046 2,495,871.8927 2,495,812.5703 2,495,803.6769	6,929,327.3796 6,929,281.0602 6,928,946.7695 6,928,592.7455 6,928,543.5503	2,495,381.6596 2,495,400.4675 2,495,531.2377 2,495,471.9234 2,495,463.0312
SOC3-D	TS SC PI CS ST	85+04.8410 86+69.8410 92+58.8587 98+03.8648 99+68.8648	38° 13' 13.6" (RT)	589.0177	1,700.0000	1134.0238	165.0000	3.25	1.53	45	6,929,386.1168 6,929,224.4690 6,928,651.4715 6,928,285.7174 6,928,187.5072	2,495,784.3352 2,495,751.3305 2,495,614.8913 2,495,153.1925 2,495,020.6253	6,928,440.3431 6,928,278.7174 6,927,705.7981 6,927,340.0939 6,927,241.8971	2,495,443.6922 2,495,410.6920 2,495,274.2714 2,494,812.6356 2,494,680.0865
SOC3-E	TS SC PI CS ST	108+99.3612 109+99.3612 111+87.5362 113+75.5783 114+75.5783	03° 43' 45.7" (RT)	188.1750	5,780.0000	376.2171	100.0000	1.50	1.43	65	6,927,645.7719 6,927,587.7868 6,927,479.5588 6,927,381.5726 6,927,329.9941	2,494,264.0895 2,494,182.6177 2,494,028.6809 2,493,868.0306 2,493,858.2774	6,926,700.2358 6,926,642.2586 6,926,534.0453 6,926,436.0725 6,926,384.5011	2,493,923.6540 2,493,842.1933 2,493,688.2775 2,493,527.6491 2,493,517.8972
SOC3-F	PC PI PT	125+27.0254 126+40.8987 127+54.7622	01° 18' 17.4" (RT)	113.8733	10,000.0000	227.7368		0.75	0.94	65	6,926,790.2716 6,926,731.8189 6,926,675.6066	2,492,880.0064 2,492,782.2802 2,492,683.2482	6,925,844.8522 6,925,786.4075 6,925,730.2029	2,492,539.7598 2,492,442.0469 2,492,343.0284
SOC3-G	PC PI PT	129+11.2642 130+25.1376 131+39.0010	01° 18' 17.4" (LT)	113.8733	10,000.0000	227.7368		0.75	0.94	65	6,926,598.3513 6,926,542.1391 6,926,483.6863	2,492,547.1435 2,492,448.1116 2,492,350.3854	6,925,652.9581 6,925,596.7536 6,925,538.3088	2,492,206.9423 2,492,107.9239 2,492,010.2111
NO. 10 TO	PS PITO	131+89.0010 132+20.4210									6,926,458.0206 6,926,441.8923	2,492,307.4754 2,492,280.5107	6,925,512.6466 6,925,496.5205	2,491,967.3069 2,491,940.3459
NO. 10 TO	PITO PS	135+49.6024 135+81.0224									6,926,272.9189 6,926,256.7905	2,491,998.0070 2,491,971.0423	6,925,327.5701 6,925,311.4439	2,491,657.8807 2,491,630.9197
END SOC3-SB	POE	147+73.1873									6,925,644.8557	2,490,947.9254	6,924,699.5727	2,490,607.9425

- NOTES:
- GRID COORDINATES = SURFACE COORDINATES X 0.9998635
 - COORDINATES SHOWN HEREON ARE BASED ON THE NAD83 STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE 4202, U.S. SURVEY FOOT.
 - CURVE RADII ARE BASED ON THE ARC DEFINITION.

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June 1, Yeow, V61 \$MODEL\$

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CONTRACT SHEET No. 9 OF 79

LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3 HORIZONTAL ALIGNMENT DATA SOUTHBOUND TRACK SHEET 1 OF 1

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DALLAS, TEXAS 75207
214-741-7777
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IN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT	DWG No.	REV
	GC1-0007	

LINE SECTION SOC-3 HORIZONTAL ALIGNMENT DATA CENTERLINE OF NORTHBOUND TRACK

CURVE OR POINT	POINT	STATION	TOTAL CENTRAL ANGLE (D.M.S.)	TANGENT (FT)	RADIUS (FT)	Lc (FT)	Ls (FT)	Ea (IN.)	Ea (IN.)	PASSENGER SPEED (MPH)	SURFACE		GRID	
											NORTHING	EASTING	NORTHING	EASTING
BEGIN SOC3-NB	POB	10+00.0000									6,936,587.1859	2,495,334.6258	6,935,640.4294	2,494,994.0441
SOC3-AA	TS	14+03.8127	25° 33' 21.09" (RT)	706.5623	3,115.5000	1389.6185	195.0000	3.25	1.38	60	6,936,189.3506	2,495,403.8481	6,935,242.6484	2,495,063.2570
	SC	15+98.8127									6,935,996.9071	2,495,435.2681	6,935,050.2311	2,495,094.6727
	PI	23+05.3749									6,935,297.3546	2,495,534.5479	6,934,350.7741	2,495,193.9390
	CS	29+88.4312									6,934,623.4142	2,495,322.3341	6,933,676.9257	2,494,981.7541
	ST	31+83.4312									6,934,438.6877	2,495,259.9016	6,933,492.2244	2,494,919.3301
SOC3-BB	TS	42+54.7096	35° 26' 08.3" (LT)	479.2251	1,500.0000	927.7028	165.0000	3.00	1.28	40	6,933,427.4383	2,494,906.3312	6,932,481.1130	2,494,565.8080
	SC	44+19.7096									6,933,270.7330	2,494,854.7451	6,932,324.4291	2,494,514.2289
	PI	48+98.9347									6,932,810.3505	2,494,721.6862	6,931,864.1095	2,494,381.1882
	CS	53+47.4124									6,932,358.0999	2,494,880.1984	6,931,411.9206	2,494,539.6788
	ST	55+12.4124									6,932,204.5135	2,494,940.4386	6,931,258.3551	2,494,599.9107
NO. 10 TO	PS PITO	67+93.2329 68+24.6497									6,931,020.9045	2,495,429.8985	6,930,074.9077	2,495,089.3038
												6,930,991.8721	2,495,441.9043	6,930,045.8793
NO. 10 TO	PITO PS	69+79.2653 70+10.4542									6,930,848.9916	2,495,500.9899	6,929,903.0182	2,495,160.3855
												6,930,820.1698	2,495,512.9086	6,929,874.2004
SOC3-CC	TS	75+95.8575	30° 54' 07.1" (RT)	363.6087	1,315.5000	709.5030	50.0000	1.25	1.49	30	6,930,279.1974	2,495,736.6179	6,929,333.3018	2,495,395.9814
	SC	76+45.8575									6,930,232.8730	2,495,755.4318	6,929,286.9838	2,495,414.7927
	PI	80+09.4661									6,929,894.2816	2,495,887.9729	6,928,948.4386	2,495,547.3157
	CS	83+55.3605									6,929,535.6849	2,495,827.8089	6,928,589.8908	2,495,487.1599
	ST	84+05.3605									6,929,486.4837	2,495,818.9118	6,928,540.6963	2,495,478.2640
SOC3-DD	TS	85+10.3809	38° 16' 14.5" (RT)	595.2305	1,715.5000	1145.8678	165.0000	3.25	1.49	45	6,929,383.2598	2,495,799.5697	6,928,437.4865	2,495,458.9246
	SC	86+75.3809									6,929,221.6069	2,495,766.5885	6,928,275.8557	2,495,425.9479
	PI	92+10.6117									6,928,642.5049	2,495,628.9640	6,927,696.8327	2,495,288.3422
	CS	98+21.2487									6,928,273.0974	2,495,162.2331	6,927,327.4756	2,494,821.6750
	ST	99+86.2487									6,928,174.9064	2,495,029.6513	6,927,229.2980	2,494,689.1113
SOC3-EE	TS	109+16.7475	03° 43' 55.2" (RT)	188.8138	5,795.5000	377.4942	100.0000	1.50	1.42	65	6,927,633.1697	2,494,273.1136	6,926,687.6353	2,493,932.6768
	SC	110+16.7475									6,927,575.1839	2,494,191.6423	6,926,629.6574	2,493,851.2166
	PI	112+05.5613									6,927,466.5849	2,494,037.1854	6,926,521.0732	2,493,696.7808
	CS	113+94.2416									6,927,368.2698	2,493,875.9874	6,926,422.7715	2,493,535.6048
	ST	114+94.2416									6,927,316.6920	2,493,790.3155	6,926,371.2008	2,493,449.9446
SOC3-FF	PC	125+45.6887	01° 18' 17.4" (LT)	113.8733	10,000.0000	227.7368		0.75	0.94	65	6,926,776.9695	2,492,887.9627	6,925,831.5519	2,492,547.7150
	PI	126+59.5620									6,926,718.5167	2,492,790.2365	6,925,773.1071	2,492,450.0021
	PT	127+73.4255									6,926,657.8537	2,492,693.8667	6,925,712.4524	2,492,353.6455
SOC3-GG	PC	129+29.9275	01° 18' 17.4" (RT)	113.8733	10,000.0000	227.7368		0.75	0.94	65	6,926,574.4814	2,492,561.4208	6,925,629.0915	2,492,221.2177
	PI	130+43.8008									6,926,513.8184	2,492,465.0510	6,925,568.4368	2,492,124.8610
	PT	131+57.6643									6,926,455.3657	2,492,367.3248	6,925,509.9920	2,492,027.1481
NO. 10 TO	PS PITO	132+07.6643 132+39.0843									6,926,429.7000	2,492,324.4148	6,925,484.3298	2,491,984.2440
												6,926,413.5716	2,492,297.4501	6,925,468.2036
NO. 10 TO	PITO PS	135+68.2657 135+99.6857									6,926,244.5982	2,492,014.9463	6,925,299.2533	2,491,674.8177
												6,926,228.4699	2,491,987.9813	6,925,283.1272
NO. 6 TO	PS PITO	143+10.9510 143+31.7010									6,925,863.3675	2,491,377.5732	6,924,918.0746	2,491,037.5316
												6,925,852.7163	2,491,359.7655	6,924,907.4249
END SOC3-NB	POE	147+91.8506									6,925,616.5150	2,490,964.8647	6,924,671.2558	2,490,624.8795

NOTES:

1. GRID COORDINATES= SURFACE COORDINATES X 0.9998635
2. COORDINATES SHOWN HEREON ARE BASED ON THE NAD83 STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE 4202, U.S. SURVEY FOOT.
3. CURVE RADII ARE BASED ON THE ARC DEFINITION.

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CONTRACT SHEET No. 10 OF 79

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
HORIZONTAL ALIGNMENT DATA
NORTHBOUND TRACK
SHEET 1 OF 1**

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT DWG No. GC1-0008 REV

SOUTH OAK CLIFF 3 HORIZONTAL ALIGNMENT DATA CENTERLINE OF MAINTENANCE TRACK

CURVE OR POINT	POINT	STATION	TOTAL CENTRAL ANGLE (D.M.S.)	TANGENT (FT)	RADIUS (FT)	Lc (FT)	Ls (FT)	Ea (IN.)	Eu (IN.)	PASSENGER SPEED (MPH)	SURFACE		GRID		
											NORTHING	EASTING	NORTHING	EASTING	
BEGIN MAINTENANCE TRACK NO. 6 TO	PS PITO	10+00.0000 10+20.7500									10	6,925,863.3675 6,925,852.7163	2,491,377.5732 2,491,359.7655	6,924,918.0746 6,924,907.4249	2,491,037.5316 2,491,019.7264
MAINTENANCE TRACK	PC PI PT	10+98.9386 11+20.4384 11+41.8391	9° 31' 37.9" (LT)	21.4998	258.0000	42.9005		0.00	1.55	10		6,925,824.2409 6,925,816.4109 6,925,805.3748	2,491,286.9465 2,491,266.9232 2,491,248.4720	6,924,878.9534 6,924,871.1244 6,924,860.0898	2,490,946.9173 2,490,926.8967 2,490,908.4481
END MAINTENANCE TRACK	POE	13+70.3392										6,925,674.2318	2,491,047.3933	6,924,728.9647	2,490,707.3968

NOTES:

1. GRID COORDINATES= SURFACE COORDINATES X 0.9998635
2. COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, U.S. SURVEY FOOT.
3. CURVE RADII ARE BASED ON THE ARC DEFINITION.

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June 1, Yeow, V61
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CONTRACT SHEET No. 11 OF 79

REV	△	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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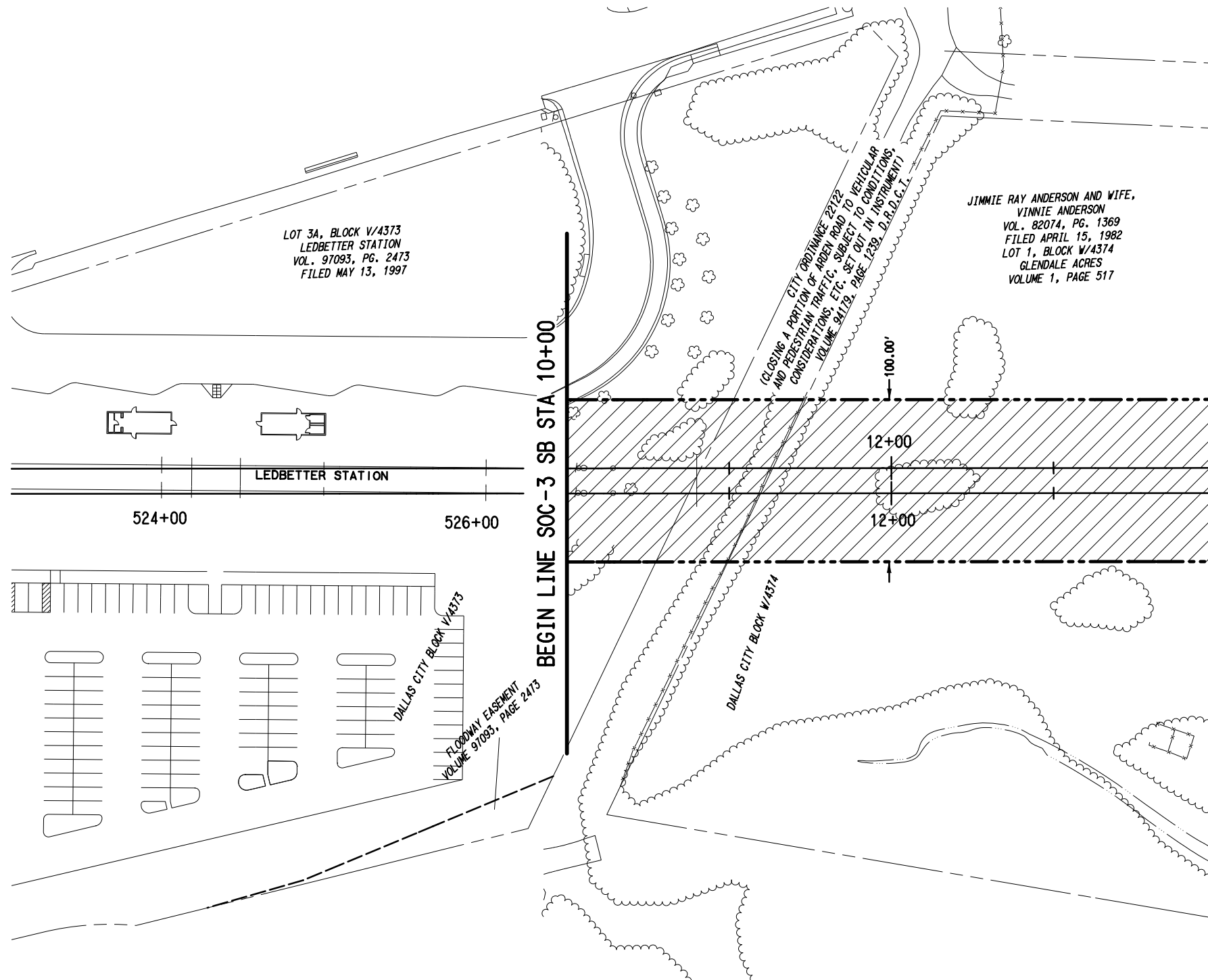
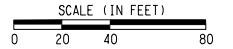
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DRAWN	D. KING
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
HORIZONTAL ALIGNMENT DATA
MAINTENANCE TRACK
SHEET 1 OF 1

CONTRACT	DWG No.
	GC1-0009
	REV



LEGEND:

- - - - - EXISTING RIGHT-OF-WAY
- - - - - PROPOSED RIGHT-OF-WAY

NOTE:

1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 12 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 10+00.00 TO STA 14+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

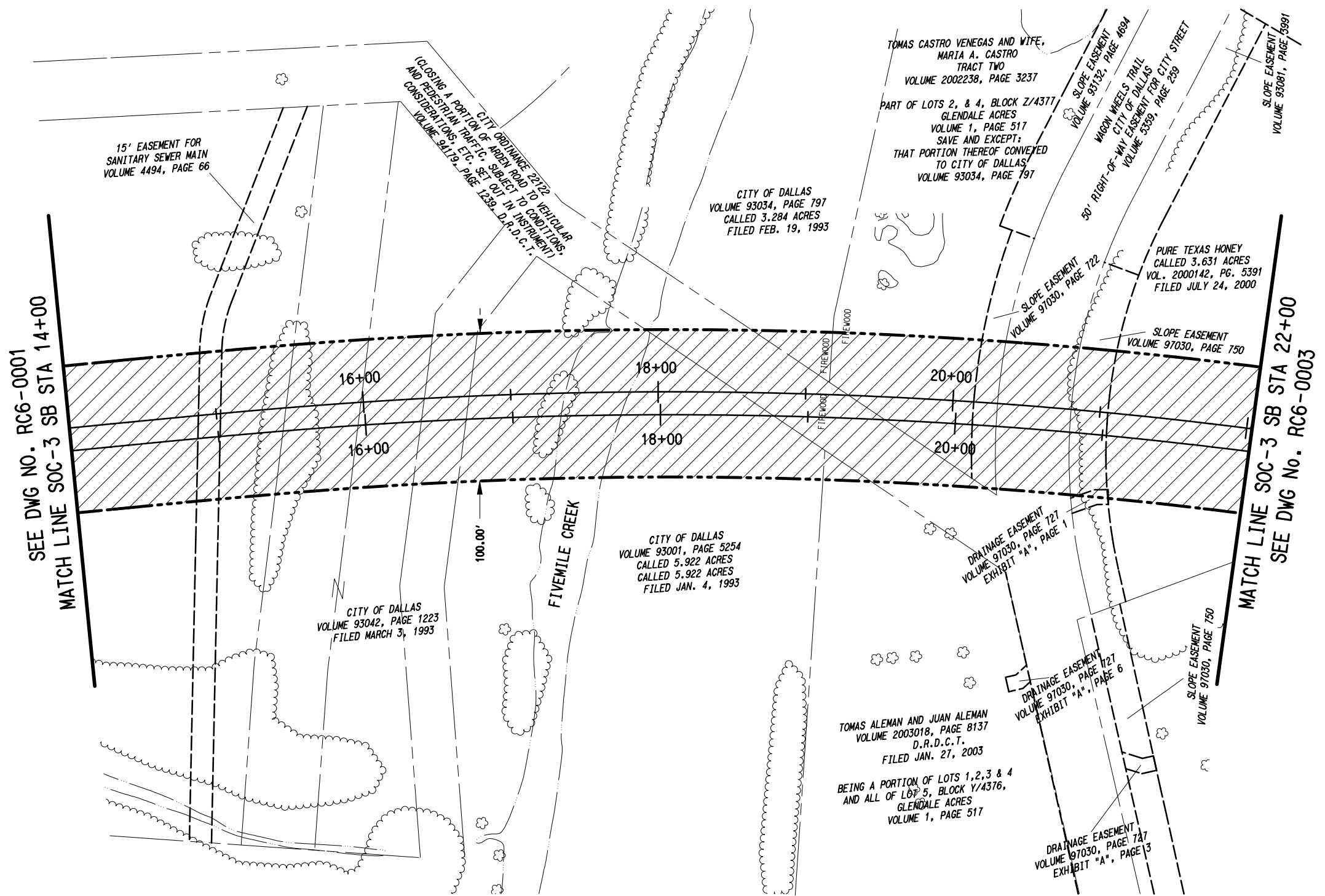
DART PROJECT



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SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

CONTRACT	DWG No.	REV
	RC6-0001	



SCALE (IN FEET)
0 20 40 80

LEGEND:
 - - - - - EXISTING RIGHT-OF-WAY
 - - - - - PROPOSED RIGHT-OF-WAY

NOTE:
 1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

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 PRELIMINARY ENGINEERING 5% DESIGN

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 Texas Reg. No. 100189-00

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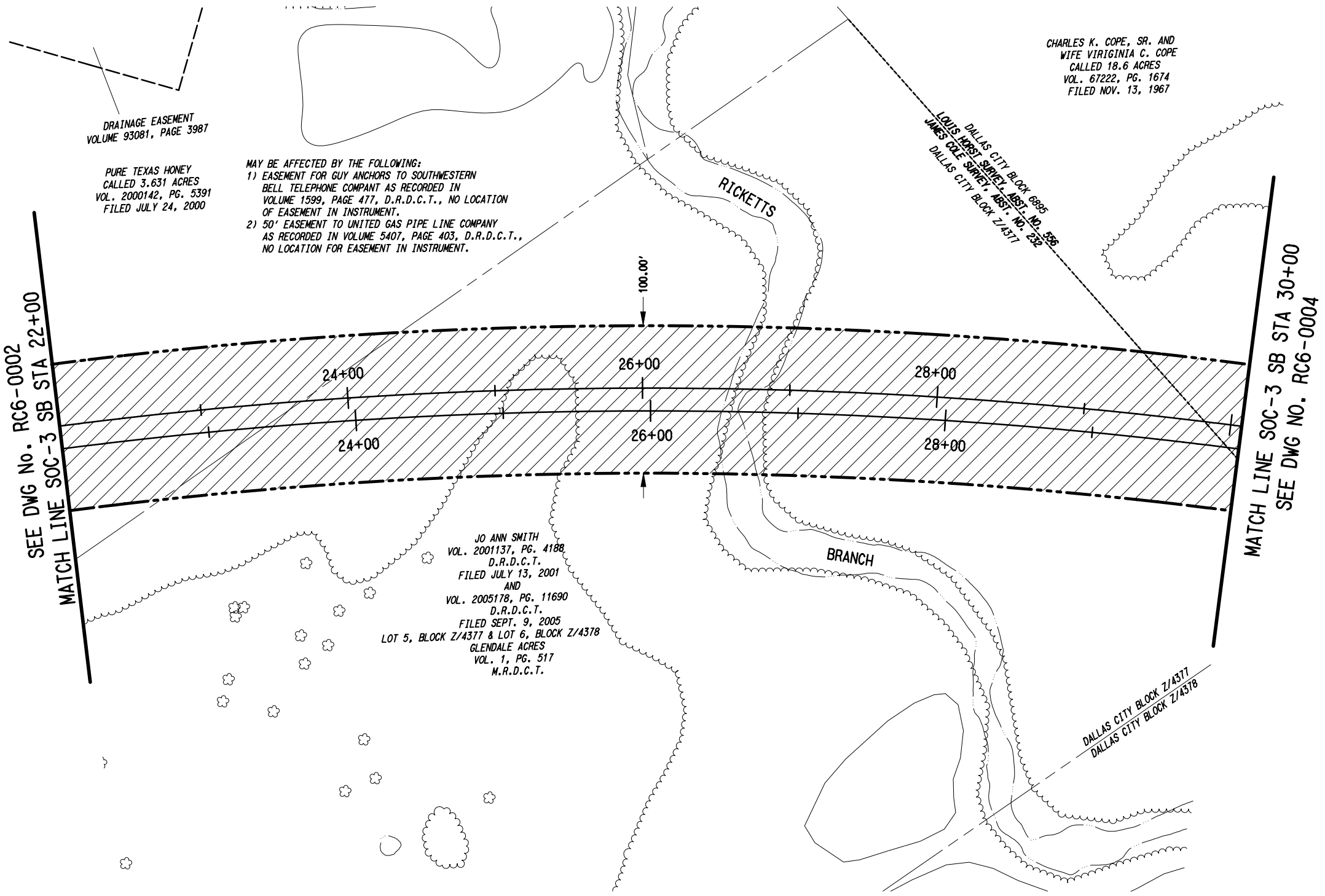
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DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 14+00.00 TO STA 22+00.00

CONTRACT DWG No. RC6-0002



LEGEND:

----- EXISTING RIGHT-OF-WAY

----- PROPOSED RIGHT-OF-WAY

NOTE:

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CONTRACT SHEET No.		14 OF 79
LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3		
RIGHT-OF-WAY PLAN STA 22+00.00 TO STA 30+00.00		
CONTRACT	DWG No.	RC6-0003
		REV

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

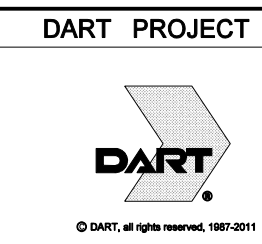
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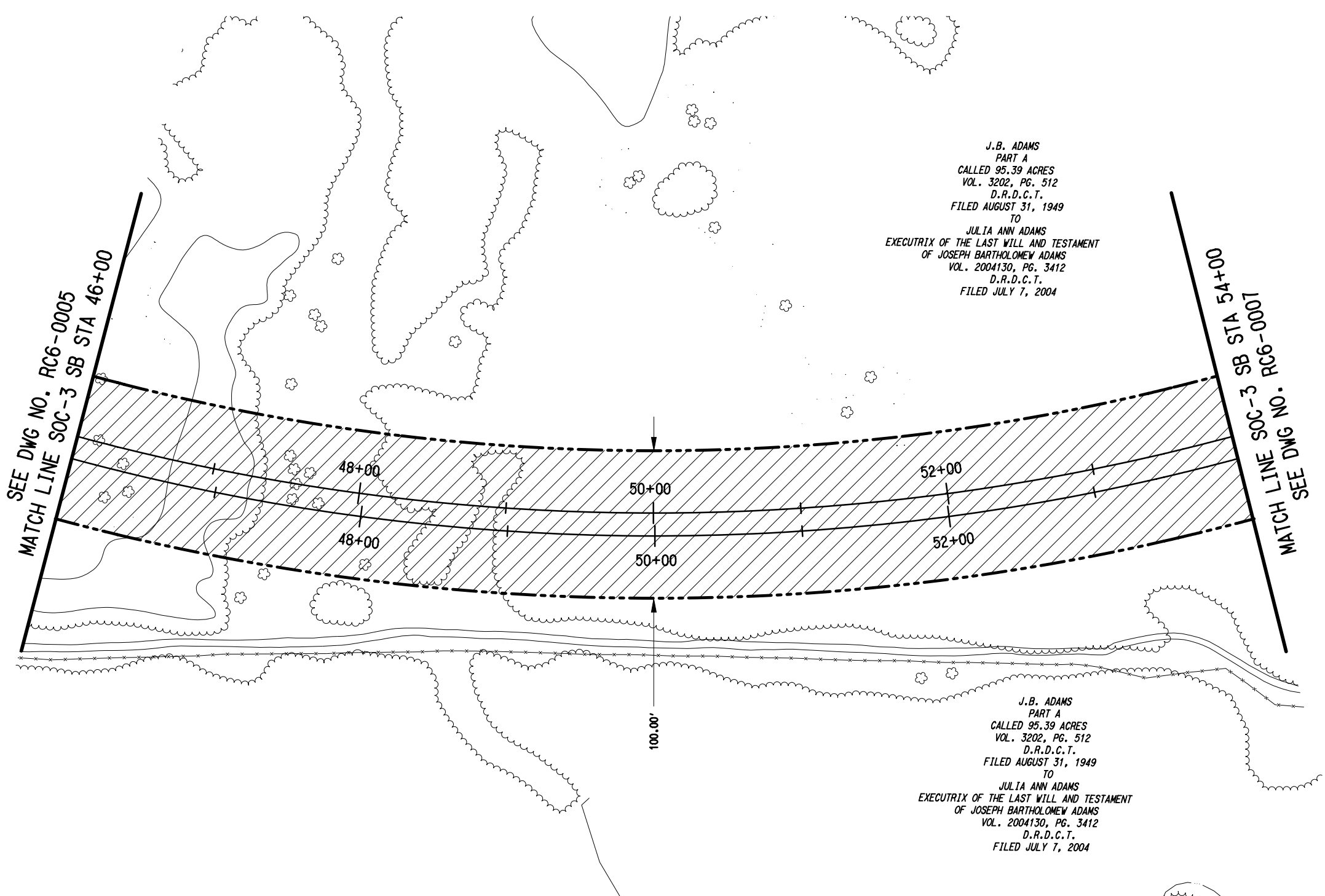
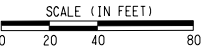
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CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12





J.B. ADAMS
 PART A
 CALLED 95.39 ACRES
 VOL. 3202, PG. 512
 D.R.D.C.T.
 FILED AUGUST 31, 1949
 TO
 JULIA ANN ADAMS
 EXECUTRIX OF THE LAST WILL AND TESTAMENT
 OF JOSEPH BARTHOLOMEW ADAMS
 VOL. 2004130, PG. 3412
 D.R.D.C.T.
 FILED JULY 7, 2004

J.B. ADAMS
 PART A
 CALLED 95.39 ACRES
 VOL. 3202, PG. 512
 D.R.D.C.T.
 FILED AUGUST 31, 1949
 TO
 JULIA ANN ADAMS
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 OF JOSEPH BARTHOLOMEW ADAMS
 VOL. 2004130, PG. 3412
 D.R.D.C.T.
 FILED JULY 7, 2004

LEGEND:
 - - - - - EXISTING RIGHT-OF-WAY
 - - - - - PROPOSED RIGHT-OF-WAY

NOTE:
 1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

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CONTRACT SHEET No. 17 OF 79

LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
 STA 46+00.00 TO STA 54+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 Texas Reg. No. 100189-00

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 DALLAS, TEXAS 75207
 214-741-7777
 URS CORPORATION TBPE ID #F-3162

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DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

CONTRACT	DWG No.	RC6-0006	REV
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SCALE (IN FEET)
0 20 40 80

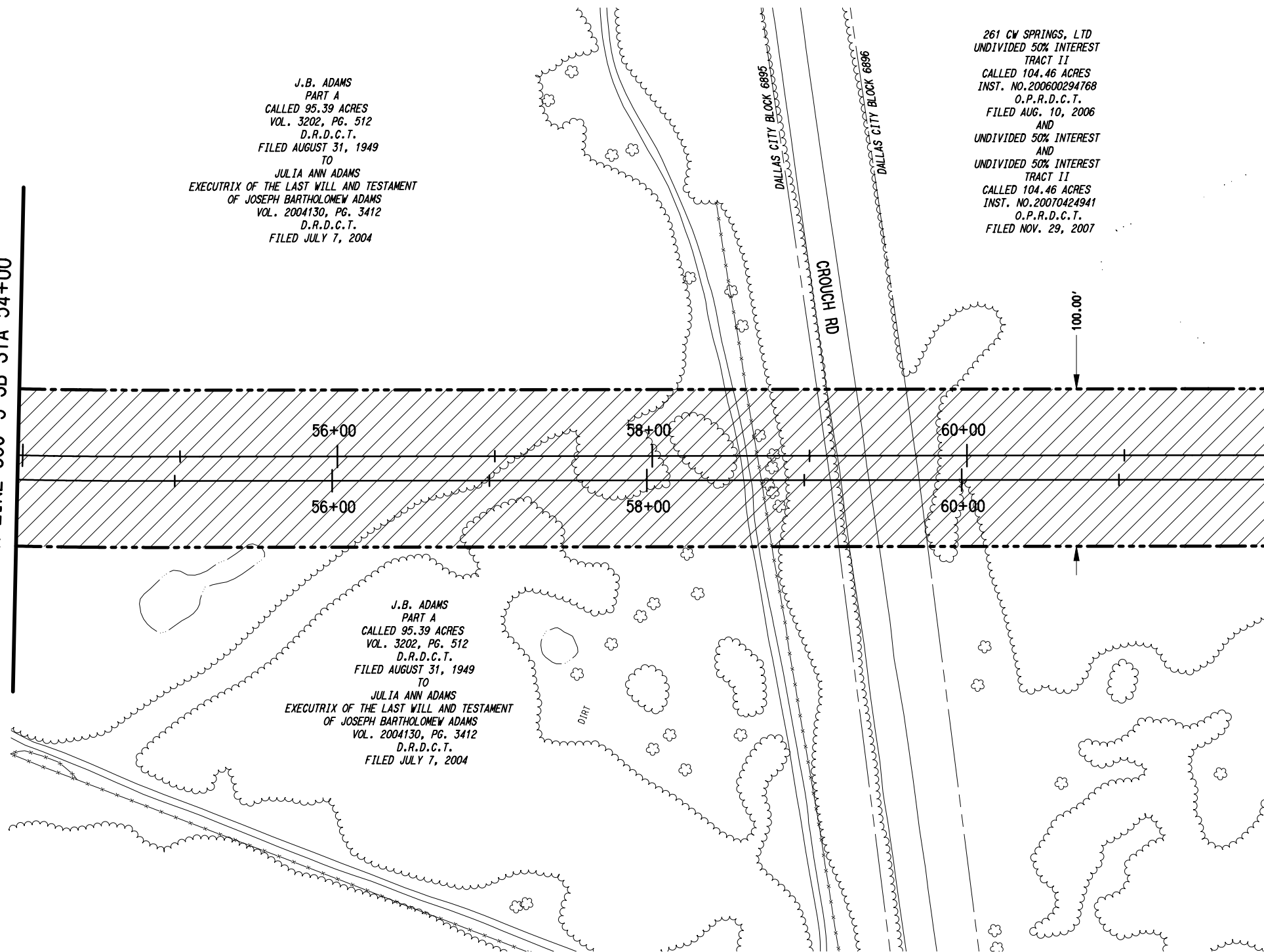
J.B. ADAMS
PART A
CALLED 95.39 ACRES
VOL. 3202, PG. 512
D.R.D.C.T.
FILED AUGUST 31, 1949
TO
JULIA ANN ADAMS
EXECUTRIX OF THE LAST WILL AND TESTAMENT
OF JOSEPH BARTHOLMEW ADAMS
VOL. 2004130, PG. 3412
D.R.D.C.T.
FILED JULY 7, 2004

261 CV SPRINGS, LTD
UNDIVIDED 50% INTEREST
TRACT II
CALLED 104.46 ACRES
INST. NO. 200600294768
O.P.R.D.C.T.
FILED AUG. 10, 2006
AND
UNDIVIDED 50% INTEREST
AND
UNDIVIDED 50% INTEREST
TRACT II
CALLED 104.46 ACRES
INST. NO. 20070424941
O.P.R.D.C.T.
FILED NOV. 29, 2007

LEGEND:
----- EXISTING RIGHT-OF-WAY
----- PROPOSED RIGHT-OF-WAY

NOTE:
1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

SEE DWG NO. RC6-0006
MATCH LINE SOC-3 SB STA 54+00



MATCH LINE SOC-3 SB STA 62+00
SEE DWG NO. RC6-0008

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 18 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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IN CHARGE	JLM
DATE	14 SEPT 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 54+00.00 TO STA 62+00.00

CONTRACT	DWG No. RC6-0007	REV
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SCALE (IN FEET)
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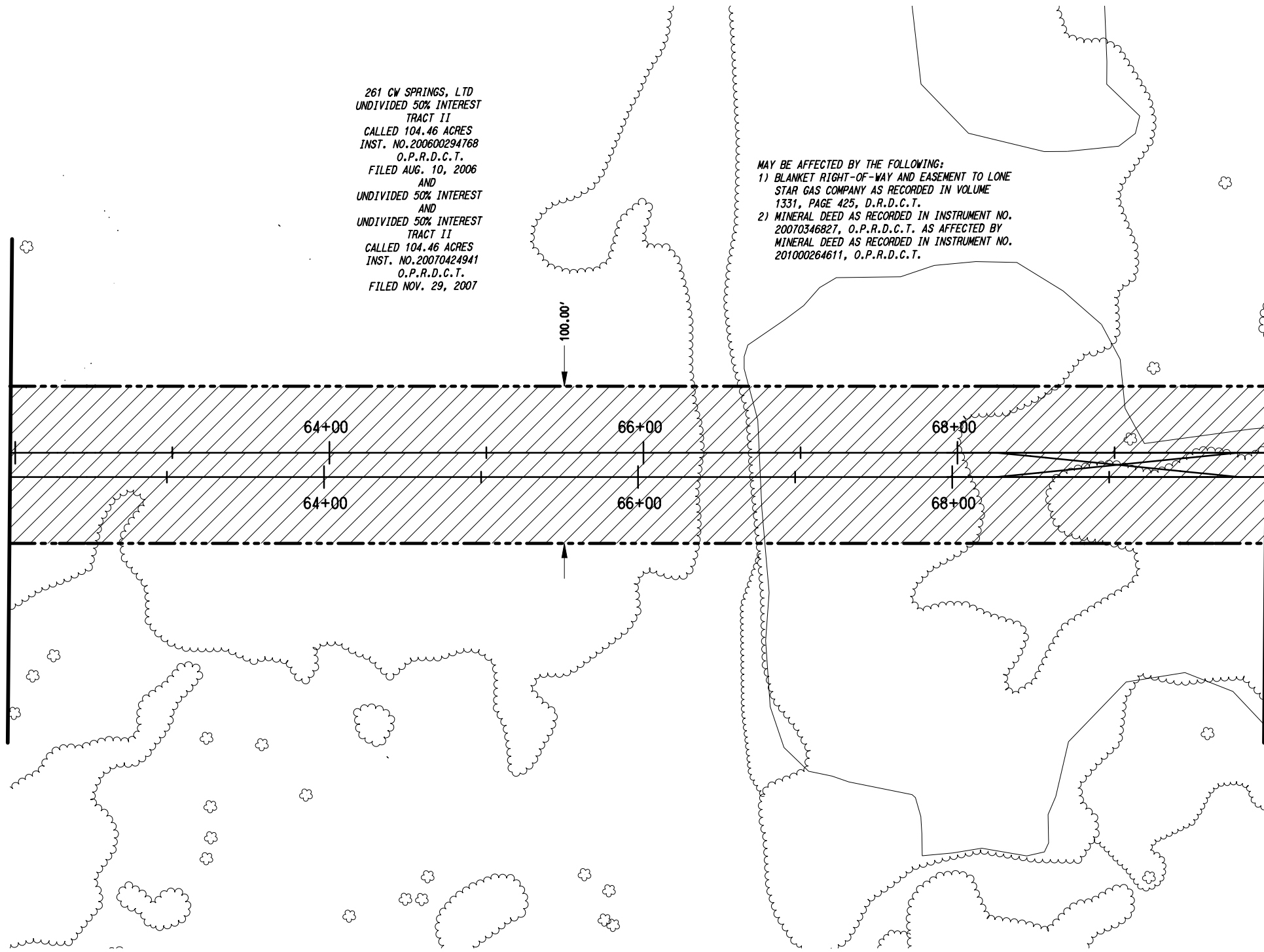
261 CW SPRINGS, LTD
UNDIVIDED 50% INTEREST
TRACT II
CALLED 104.46 ACRES
INST. NO. 200600294768
O.P.R.D.C.T.
FILED AUG. 10, 2006
AND
UNDIVIDED 50% INTEREST
AND
UNDIVIDED 50% INTEREST
TRACT II
CALLED 104.46 ACRES
INST. NO. 20070424941
O.P.R.D.C.T.
FILED NOV. 29, 2007

MAY BE AFFECTED BY THE FOLLOWING:
1) BLANKET RIGHT-OF-WAY AND EASEMENT TO LONE STAR GAS COMPANY AS RECORDED IN VOLUME 1331, PAGE 425, D.R.D.C.T.
2) MINERAL DEED AS RECORDED IN INSTRUMENT NO. 20070346827, O.P.R.D.C.T. AS AFFECTED BY MINERAL DEED AS RECORDED IN INSTRUMENT NO. 201000264611, O.P.R.D.C.T.

LEGEND:
--- EXISTING RIGHT-OF-WAY
- - - PROPOSED RIGHT-OF-WAY

NOTE:
1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

SEE DWG NO. RC6-0007
MATCH LINE SOC-3 SB STA 62+00



MATCH LINE SOC-3 SB STA 70+00
SEE DWG NO. RC6-0009

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 19 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 62+00.00 TO STA 70+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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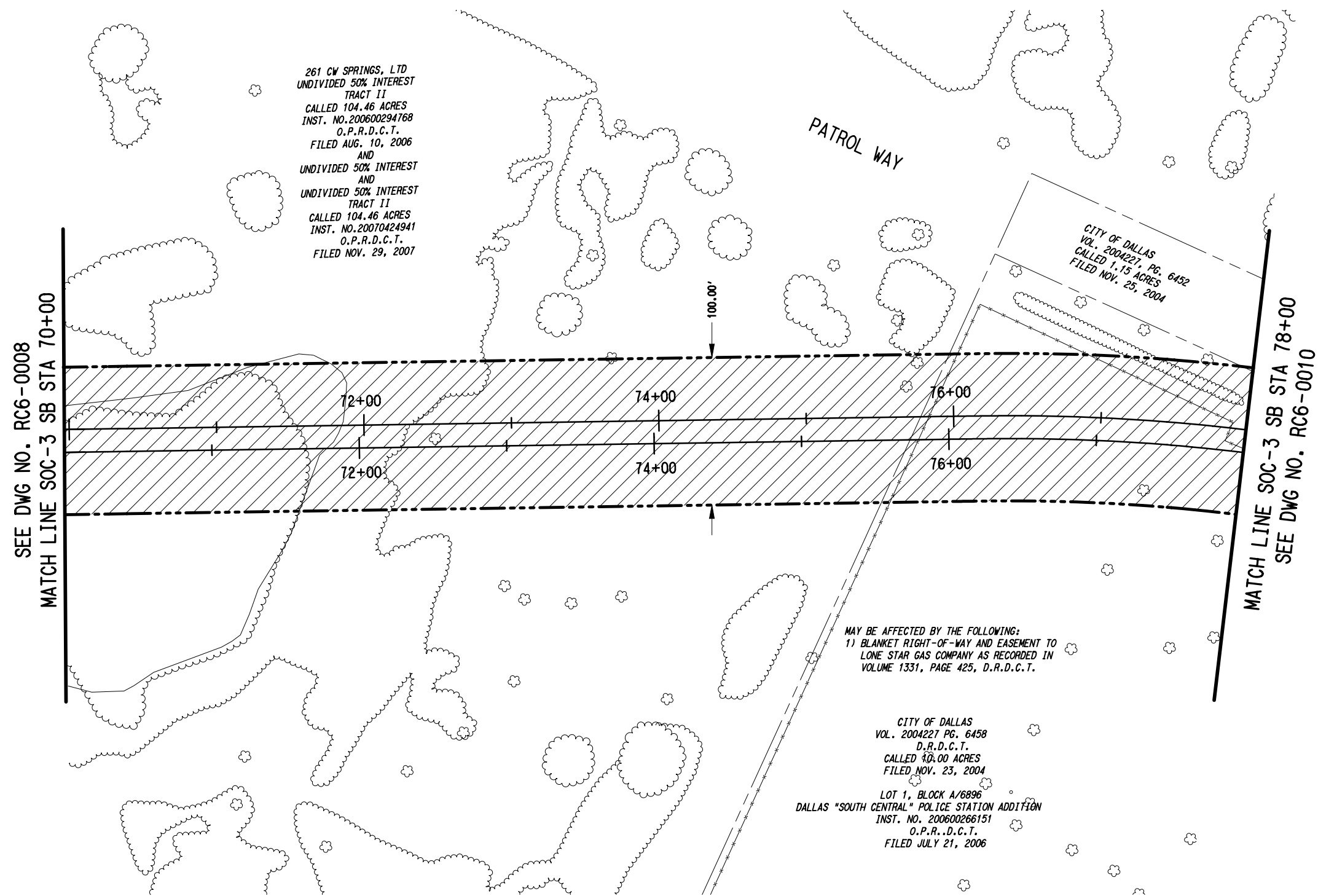
URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

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SCALE	AS SHOWN
DRAWN	MLB
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CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

CONTRACT	DWG No.	REV
	RC6-0008	



261 CW SPRINGS, LTD
 UNDIVIDED 50% INTEREST
 TRACT II
 CALLED 104.46 ACRES
 INST. NO. 200600294768
 O.P.R.D.C.T.
 FILED AUG. 10, 2006
 AND
 UNDIVIDED 50% INTEREST
 AND
 UNDIVIDED 50% INTEREST
 TRACT II
 CALLED 104.46 ACRES
 INST. NO. 20070424941
 O.P.R.D.C.T.
 FILED NOV. 29, 2007

CITY OF DALLAS
 VOL. 2004227, PG. 6452
 CALLED 1.15 ACRES
 FILED NOV. 25, 2004

MAY BE AFFECTED BY THE FOLLOWING:
 1) BLANKET RIGHT-OF-WAY AND EASEMENT TO
 LONE STAR GAS COMPANY AS RECORDED IN
 VOLUME 1331, PAGE 425, D.R.D.C.T.

CITY OF DALLAS
 VOL. 2004227 PG. 6458
 D.R.D.C.T.
 CALLED 10.00 ACRES
 FILED NOV. 23, 2004

LOT 1, BLOCK A/6896
 DALLAS "SOUTH CENTRAL" POLICE STATION ADDITION
 INST. NO. 200600266151
 O.P.R.D.C.T.
 FILED JULY 21, 2006



SCALE (IN FEET)
 0 20 40 80

LEGEND:
 ----- EXISTING RIGHT-OF-WAY
 - - - - - PROPOSED RIGHT-OF-WAY

NOTE:
 1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY
 LINES ARE SHOWN FROM RECORD INFORMATION
 TOGETHER WITH DATA OBTAINED IN THE FIELD AND
 DO NOT REPRESENT AN ACTUAL SURVEY.

SEE DWG NO. RC6-0008
 MATCH LINE SOC-3 SB STA 70+00

MATCH LINE SOC-3 SB STA 78+00
 SEE DWG NO. RC6-0010

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 PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 20 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 Texas Reg. No. 100189-00

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 214-741-7777
 URS CORPORATION TBPE ID #F-3162

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DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
RIGHT-OF-WAY PLAN
STA 70+00.00 TO STA 78+00.00
 CONTRACT DWG No. RC6-0009 REV



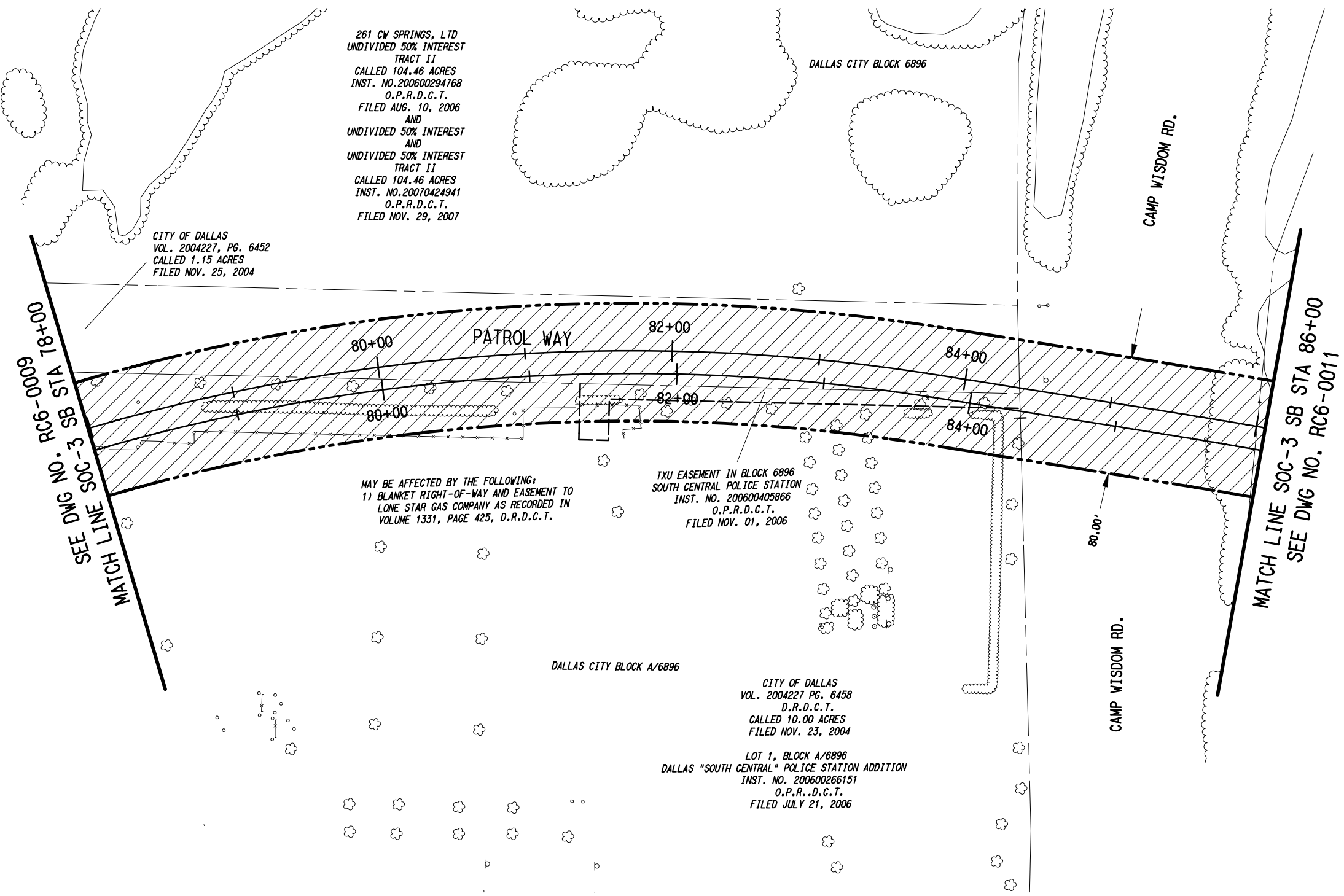
LEGEND:

----- EXISTING RIGHT-OF-WAY

----- PROPOSED RIGHT-OF-WAY

NOTE:

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CONTRACT SHEET No. 21 OF 79

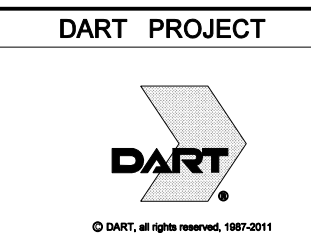
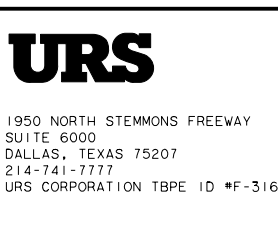
REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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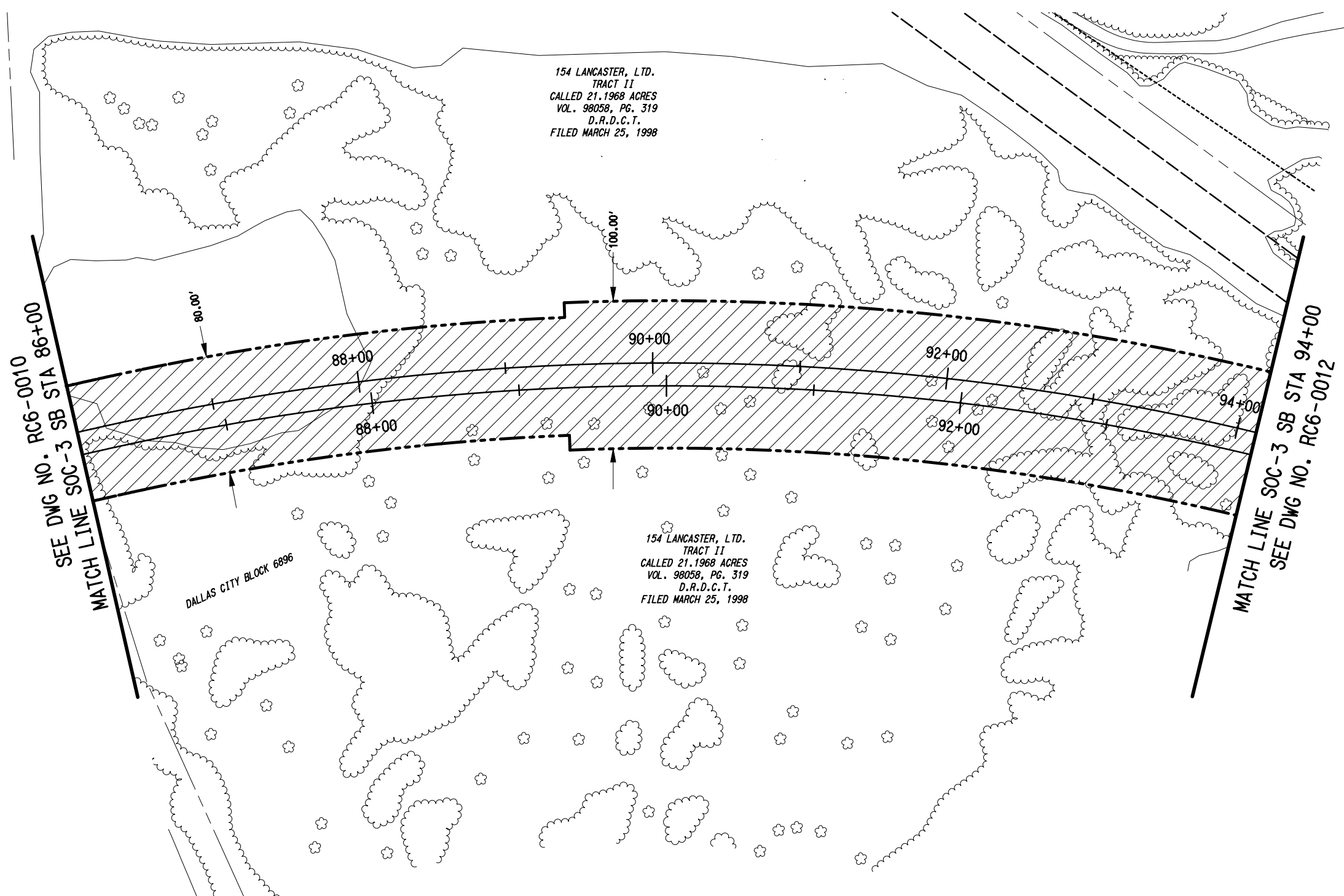
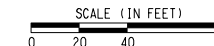


SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 78+00.00 TO STA 86+00.00

CONTRACT DWG No. RC6-0010 REV



LEGEND:
 - - - - - EXISTING RIGHT-OF-WAY
 - - - - - PROPOSED RIGHT-OF-WAY

NOTE:
 1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

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 PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 22 OF 79

LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 RIGHT-OF-WAY PLAN
 STA 86+00.00 TO STA 94+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 SUITE 6000
 DALLAS, TEXAS 75207
 214-741-7777
 URS CORPORATION TBPE ID #F-3162

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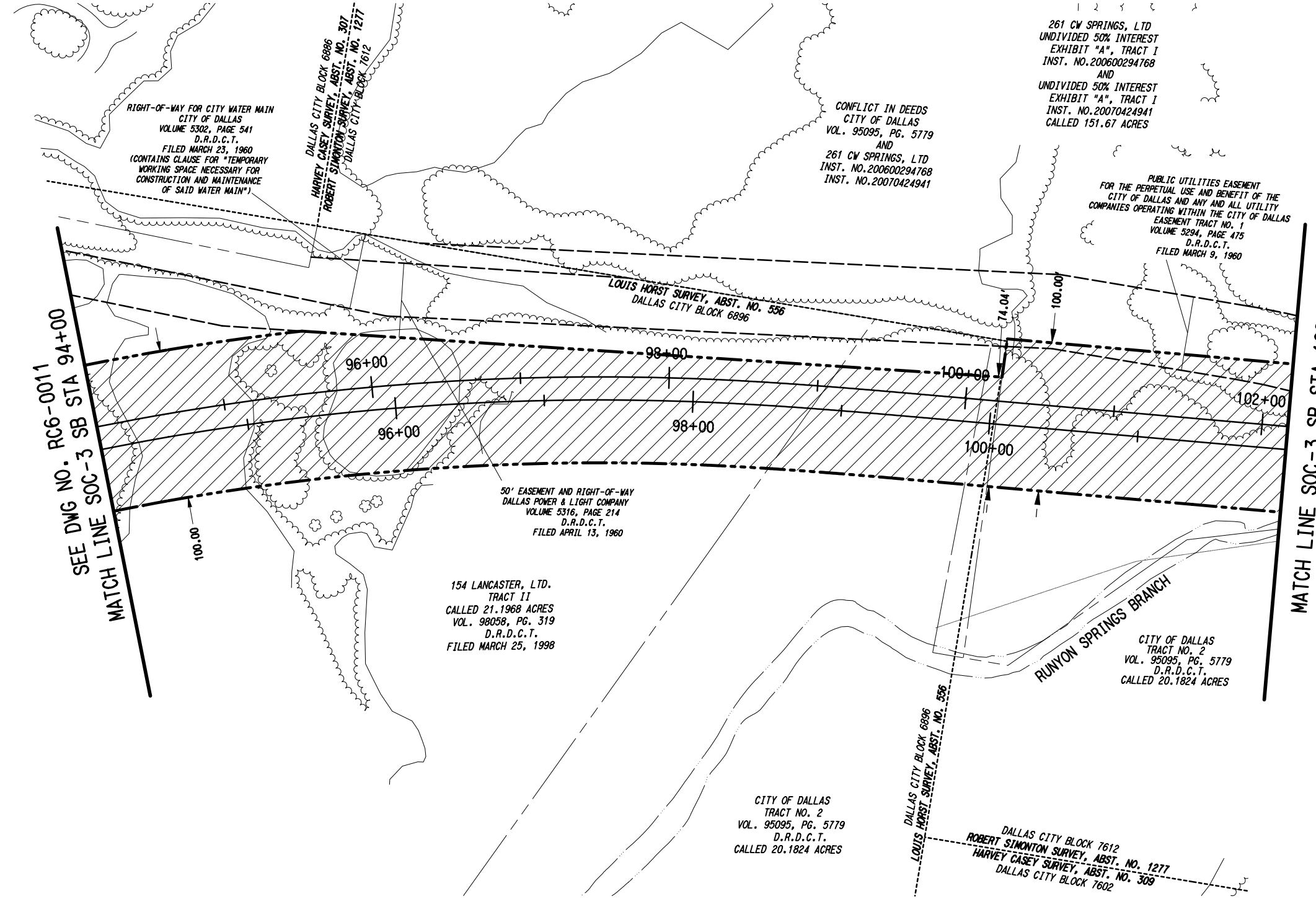
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SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

CONTRACT	DWG No.	RC6-0011	REV
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SCALE (IN FEET)
0 20 40 80



LEGEND:

----- EXISTING RIGHT-OF-WAY

----- PROPOSED RIGHT-OF-WAY

NOTE:

1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

SEE DWG NO. RC6-0011
MATCH LINE SOC-3 SB STA 94+00

MATCH LINE SOC-3 SB STA 102+00
SEE DWG NO. RC6-0013

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 23 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 94+00.00 TO STA 102+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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URS

1950 NORTH STEMMONS FREEWAY
 SUITE 6000
 DALLAS, TEXAS 75207
 214-741-7777
 URS CORPORATION TBPE ID #F-3162

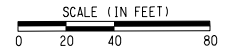
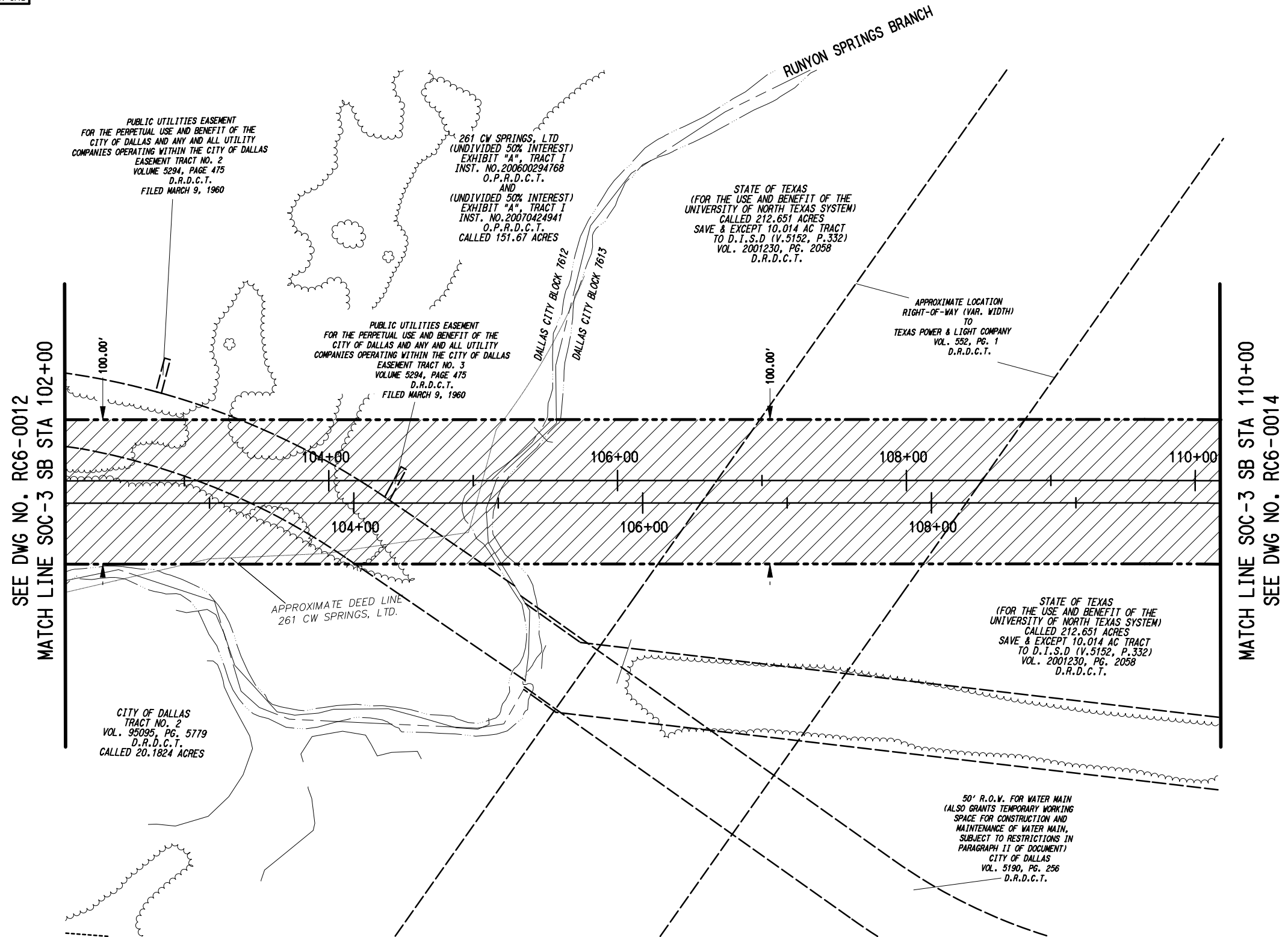
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DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

CONTRACT	DWG No.	REV
	RC6-0012	



LEGEND:

--- EXISTING RIGHT-OF-WAY

--- PROPOSED RIGHT-OF-WAY

NOTE:

1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

SEE DWG NO. RC6-0012
MATCH LINE SOC-3 SB STA 102+00

MATCH LINE SOC-3 SB STA 110+00
SEE DWG NO. RC6-0014

NOT AN APPROVED DRAWING
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CONTRACT SHEET No. 24 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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NATHAN D. MAIER

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Texas Reg. No. 100189-00

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SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

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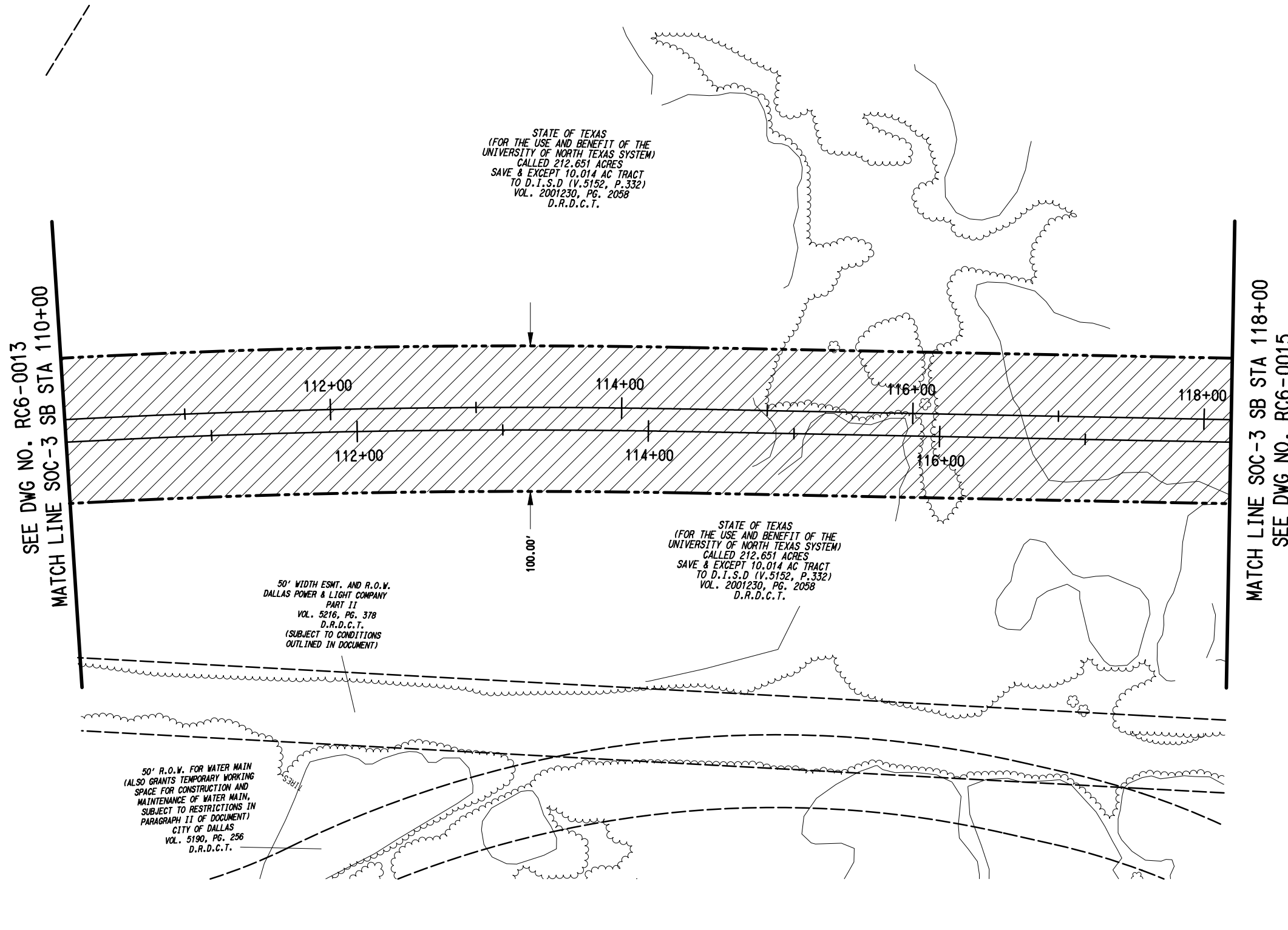
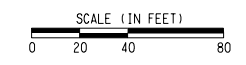
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SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12
CAES	

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 102+00.00 TO STA 110+00.00

CONTRACT	DWG No.	RC6-0013	REV
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STATE OF TEXAS
(FOR THE USE AND BENEFIT OF THE
UNIVERSITY OF NORTH TEXAS SYSTEM)
CALLED 212.651 ACRES
SAVE & EXCEPT 10.014 AC TRACT
TO D.I.S.D (V. 5152, P. 332)
VOL. 2001230, PG. 2058
D.R.D.C.T.

STATE OF TEXAS
(FOR THE USE AND BENEFIT OF THE
UNIVERSITY OF NORTH TEXAS SYSTEM)
CALLED 212.651 ACRES
SAVE & EXCEPT 10.014 AC TRACT
TO D.I.S.D (V. 5152, P. 332)
VOL. 2001230, PG. 2058
D.R.D.C.T.

50' WIDTH ESMT. AND R.O.W.
DALLAS POWER & LIGHT COMPANY
PART II
VOL. 5216, PG. 378
D.R.D.C.T.
(SUBJECT TO CONDITIONS
OUTLINED IN DOCUMENT)

50' R.O.W. FOR WATER MAIN
(ALSO GRANTS TEMPORARY WORKING
SPACE FOR CONSTRUCTION AND
MAINTENANCE OF WATER MAIN,
SUBJECT TO RESTRICTIONS IN
PARAGRAPH II OF DOCUMENT)
CITY OF DALLAS
VOL. 5190, PG. 256
D.R.D.C.T.

LEGEND:
- - - - - EXISTING RIGHT-OF-WAY
- - - - - PROPOSED RIGHT-OF-WAY

NOTE:
1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY
LINES ARE SHOWN FROM RECORD INFORMATION
TOGETHER WITH DATA OBTAINED IN THE FIELD AND
DO NOT REPRESENT AN ACTUAL SURVEY.

SEE DWG NO. RC6-0013
MATCH LINE SOC-3 SB STA 110+00

MATCH LINE SOC-3 SB STA 118+00
SEE DWG NO. RC6-0015

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 25 OF 79


LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
STA 110+00.00 TO STA 118+00.00

IN-PROGRESS
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NATHAN D. MAIER
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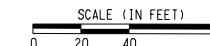
NDM
NATHAN D. MAIER
CONSULTING ENGINEERS, INC.
Texas Reg. No. 100189-00

URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

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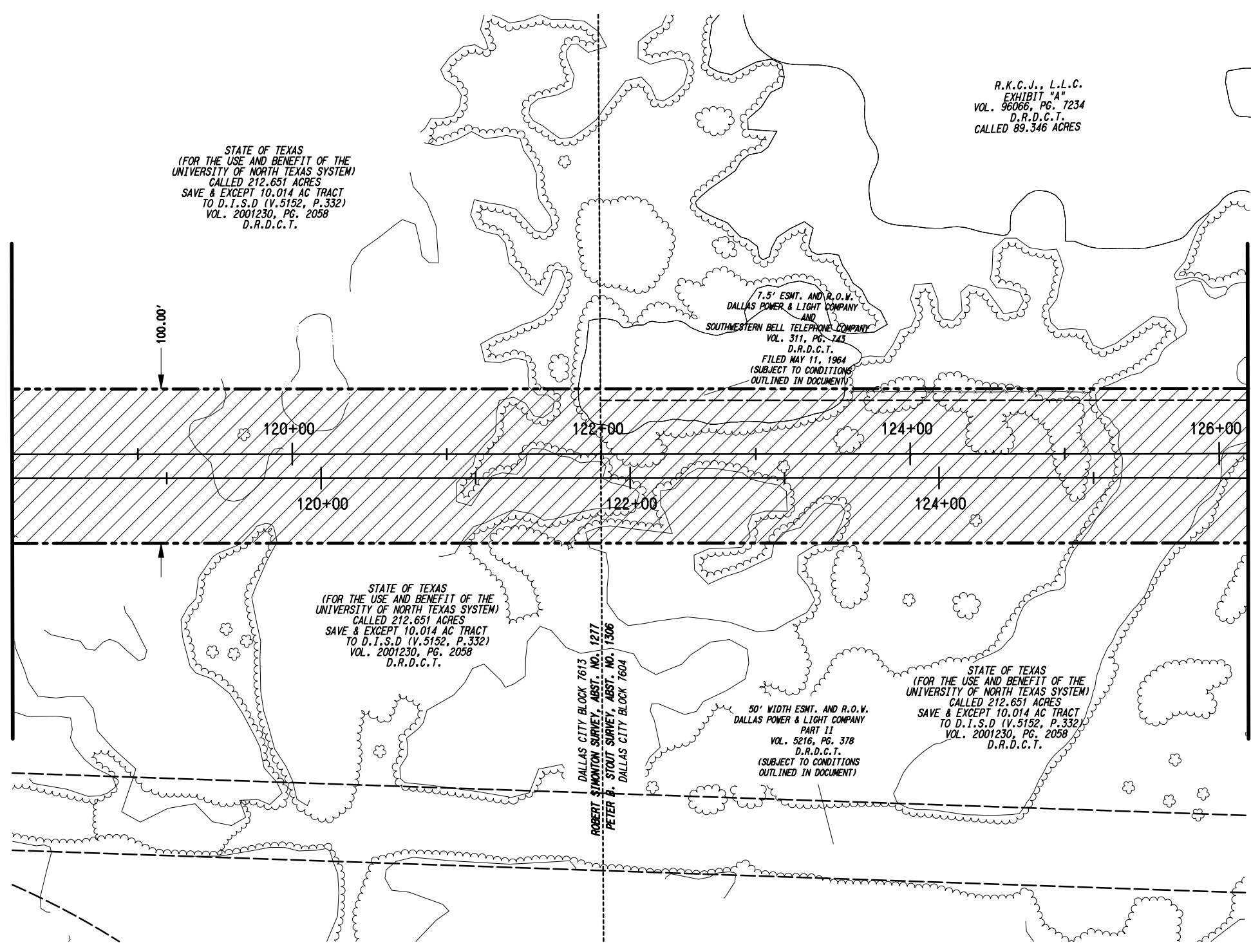
SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP



SEE DWG NO. RC6-0014
MATCH LINE SOC-3 SB STA 118+00

MATCH LINE SOC-3 SB STA 126+00
SEE DWG NO. RC6-0016



LEGEND:

- - - - - EXISTING RIGHT-OF-WAY
- - - - - PROPOSED RIGHT-OF-WAY

NOTE:

1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FROM RECORD INFORMATION TOGETHER WITH DATA OBTAINED IN THE FIELD AND DO NOT REPRESENT AN ACTUAL SURVEY.

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CONTRACT SHEET No. 26 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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214-741-7777
URS CORPORATION TBPE ID #F-3162

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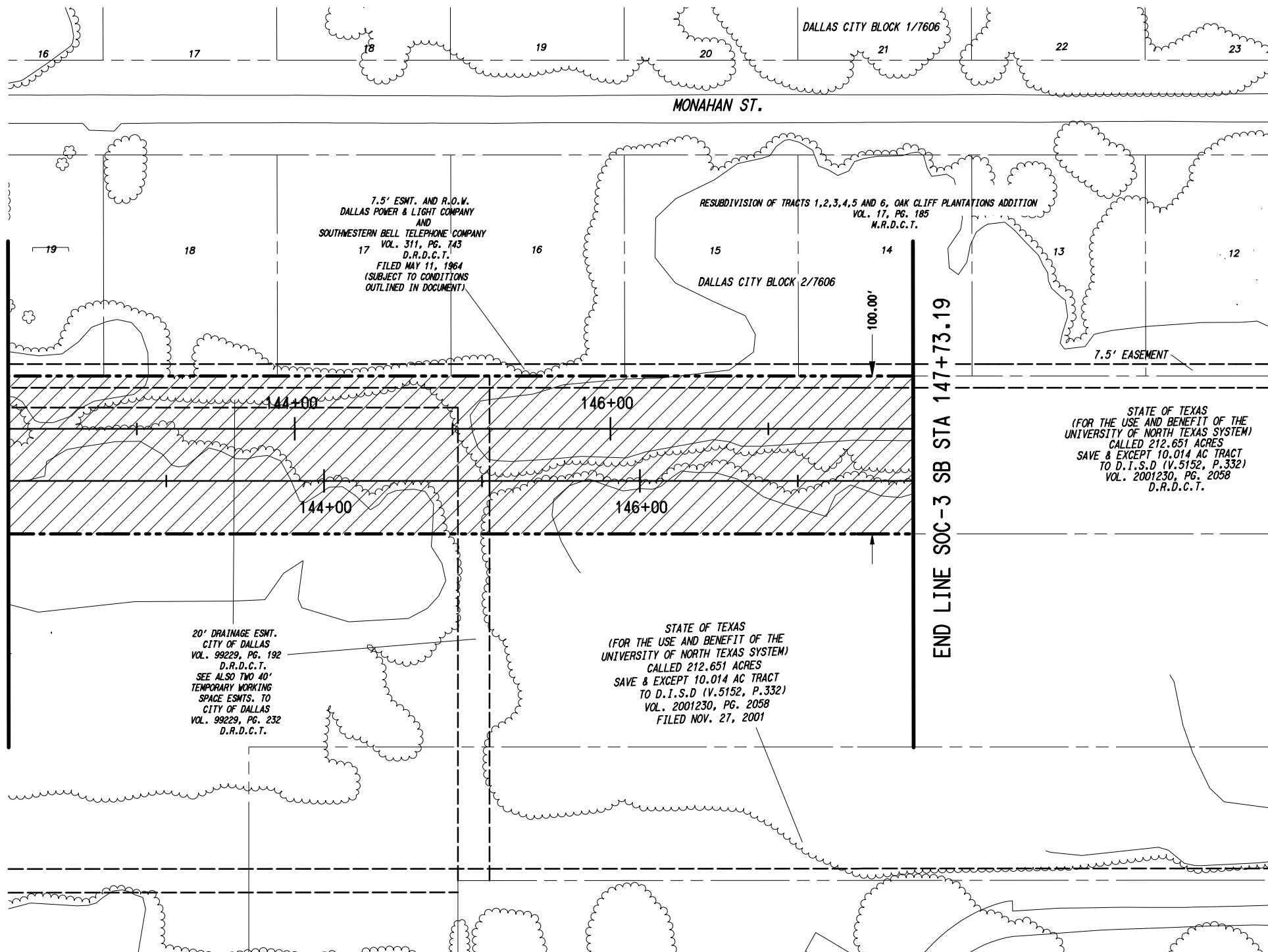
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SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**RIGHT-OF-WAY PLAN
STA 118+00.00 TO STA 126+00.00**

CONTRACT	DWG No.	REV
	RC6-0015	



SEE DWG NO. RC6-0017
 MATCH LINE SOC-3 SB STA 142+00

END LINE SOC-3 SB STA 147+73.19

7.5' ESMT. AND R.O.W.
 DALLAS POWER & LIGHT COMPANY
 AND
 SOUTHWESTERN BELL TELEPHONE COMPANY
 VOL. 311, PG. 743
 D.R.D.C.T.
 FILED MAY 11, 1964
 (SUBJECT TO CONDITIONS
 OUTLINED IN DOCUMENT)

RESUBDIVISION OF TRACTS 1,2,3,4,5 AND 6, OAK CLIFF PLANTATIONS ADDITION
 VOL. 17, PG. 185
 M.R.D.C.T.

DALLAS CITY BLOCK 2/7606

STATE OF TEXAS
 (FOR THE USE AND BENEFIT OF THE
 UNIVERSITY OF NORTH TEXAS SYSTEM)
 CALLED 212.651 ACRES
 SAVE & EXCEPT 10.014 AC TRACT
 TO D.I.S.D (V.5152, P.332)
 VOL. 2001230, PG. 2058
 D.R.D.C.T.

20' DRAINAGE ESMT.
 CITY OF DALLAS
 VOL. 99229, PG. 192
 D.R.D.C.T.
 SEE ALSO TWO 40'
 TEMPORARY WORKING
 SPACE ESMTS. TO
 CITY OF DALLAS
 VOL. 99229, PG. 232
 D.R.D.C.T.

STATE OF TEXAS
 (FOR THE USE AND BENEFIT OF THE
 UNIVERSITY OF NORTH TEXAS SYSTEM)
 CALLED 212.651 ACRES
 SAVE & EXCEPT 10.014 AC TRACT
 TO D.I.S.D (V.5152, P.332)
 VOL. 2001230, PG. 2058
 FILED NOV. 27, 2001

LEGEND:
 - - - - - EXISTING RIGHT-OF-WAY
 - - - - - PROPOSED RIGHT-OF-WAY

NOTE:
 1. EXISTING PROPERTY LINES AND RIGHT-OF-WAY
 LINES ARE SHOWN FROM RECORD INFORMATION
 TOGETHER WITH DATA OBTAINED IN THE FIELD AND
 DO NOT REPRESENT AN ACTUAL SURVEY.

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CONTRACT SHEET No. 29 OF 79

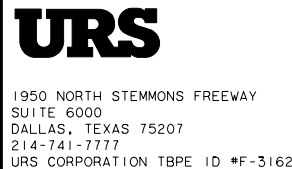
LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3

RIGHT-OF-WAY PLAN
 STA 142+00.00 TO SB STA 147+73.19

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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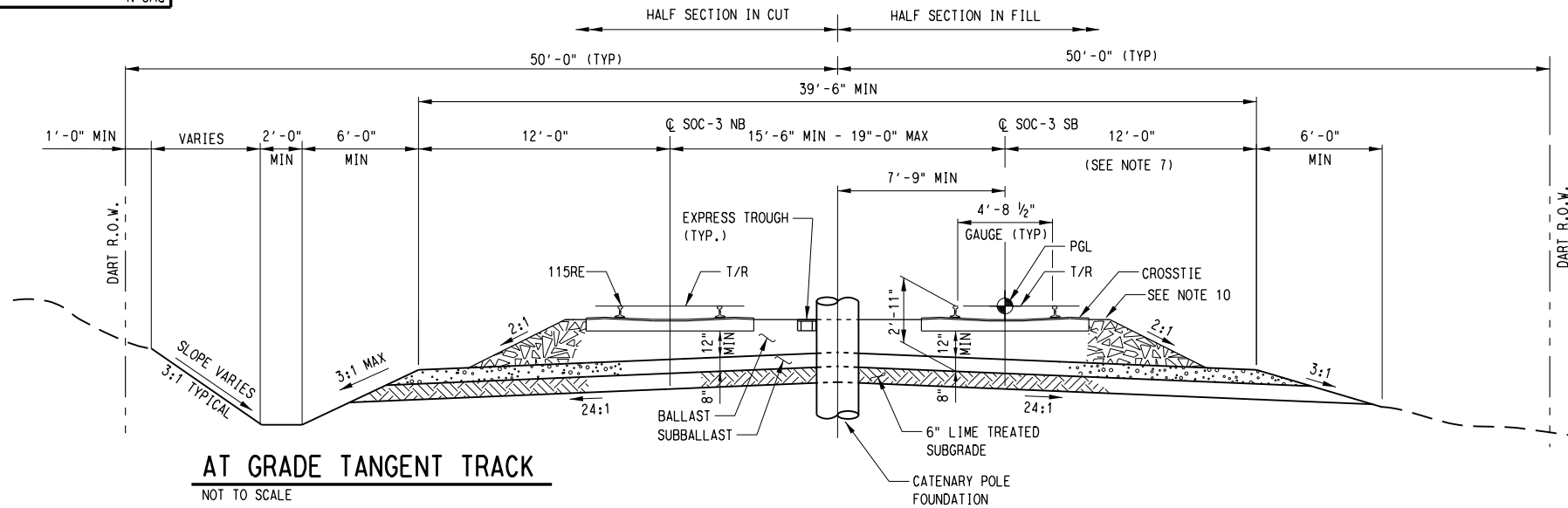
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SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12
CAES	

CONTRACT	DWG No.	REV
	RC6-0018	

8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-CIV\SOC3-CX1-0001.001

Jane L. Yeow, V61
\$BMODEL\$



AT GRADE TANGENT TRACK
NOT TO SCALE

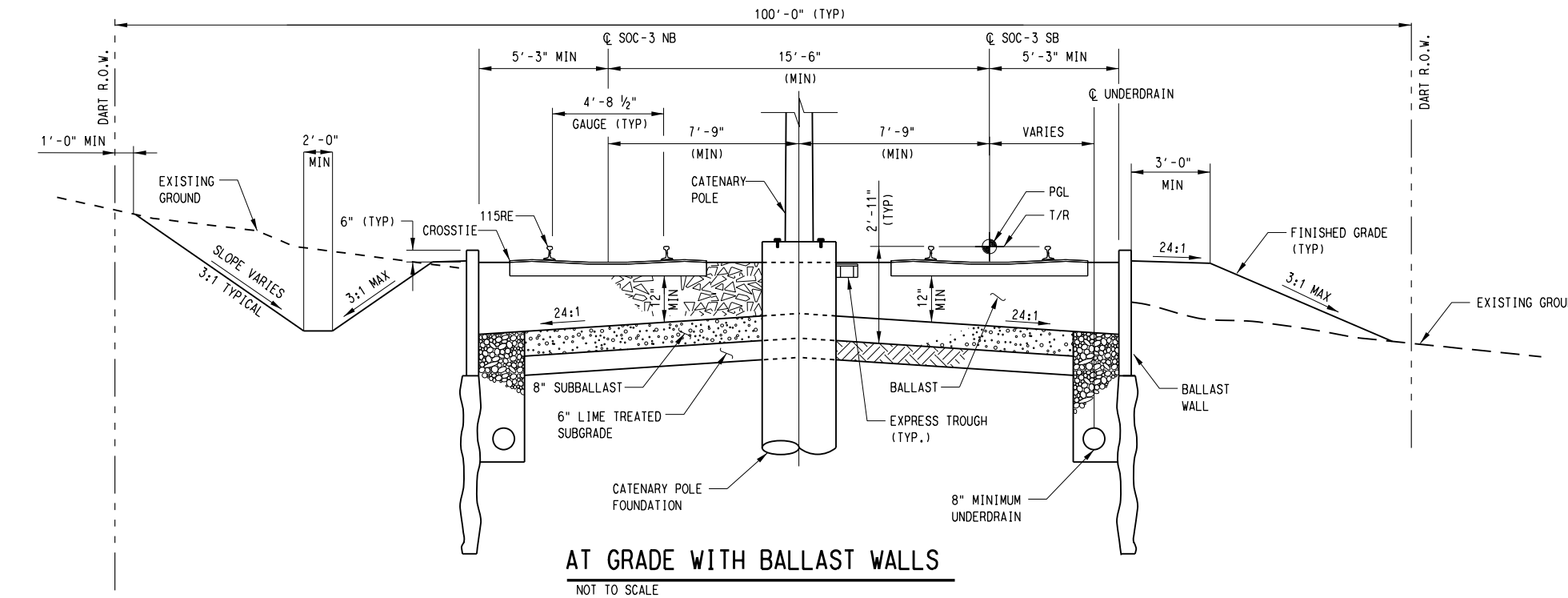
STA 29+25.00 TO STA 31+50.00	STA 75+36.64 TO STA 77+00.00	STA 112+00.00 TO STA 112+50.00 (NB ONLY)
STA 31+50.00 TO STA 38+00.00 (SB ONLY)	STA 77+00.00 TO STA 77+50.00 (NB ONLY)	STA 116+50.00 TO STA 118+50.00 (NB ONLY)
STA 38+00.00 TO STA 38+48.57	STA 91+50.00 TO STA 92+25.00 (NB ONLY)	STA 118+50.00 TO STA 120+50.00
STA 39+28.64 TO STA 39+50.00	STA 92+25.00 TO STA 94+25.00	STA 120+50.00 TO STA 121+00.00 (NB ONLY)
STA 39+50.00 TO STA 43+50.00 (SB ONLY)	STA 94+25.00 TO STA 97+75.00 (SB ONLY)	STA 121+50.00 TO STA 121+91.25
STA 47+00.00 TO STA 49+50.00 (SB ONLY)	STA 108+50.00 TO STA 109+00.00 (SB ONLY)	STA 122+47.26 TO STA 123+00.00
STA 49+50.00 TO STA 51+50.00	STA 109+00.00 TO STA 112+00.00	STA 123+00.00 TO STA 123+75.00 (NB ONLY)
STA 51+50.00 TO STA 51+75.00 (NB ONLY)		STA 123+75.00 TO STA 131+39.00

GENERAL NOTES:

- ALL SECTIONS ARE LOOKING UPSTATION. WITH ALL STATIONING BASED ON THE CENTERLINE OF THE SOUTHBOUND TRACK, UNLESS OTHERWISE NOTED.
- SEE TRACKWORK STANDARDS FOR DETAILS OF TRACK ELEMENTS, DETAILS ARE PROVIDED FOR FINAL SECTION DESIGNER'S/CONTRACTOR'S INFORMATION ONLY.
- CATENARY POLE LOCATION IS TYPICAL AND ONLY SHOWN AS AN ILLUSTRATION. ALL SYSTEM ELEMENTS SHOWN ARE FOR INFORMATION PURPOSES ONLY. SYSTEMS WILL BE DESIGNED AS PART OF FINAL DESIGN.
- IN CURVES AND SPIRALS, THE PGL IS THE TOP OF THE LOW RAIL ON THE INSIDE OF THE CURVE OF THE SOUTHBOUND TRACK.
- THE CONTRACTOR IS REQUIRED TO WORK WITHIN ONCOR AND OSHA REQUIREMENTS FOR CLEARANCES WHILE WORKING NEAR OR UNDER TRANSMISSION LINES.
- SIDE SLOPES SHALL BE 3:1 FOR LRT TRACK EMBANKMENT WITHIN DART'S PROPOSED RIGHT OF WAY, UNLESS INDICATED OTHERWISE. WHERE SLOPE TRANSITION EXCEEDS THE LIMITS OF THE PROPOSED RIGHT OF WAY, TEMPORARY EASEMENTS AND/OR GRADING EASEMENTS SHALL BE REQUIRED AT THESE LOCATIONS.
- FOR SUPERELEVATED CURVES WHERE E_0 IS GREATER THAN 2", INCREASE WIDTH TO 13'-6". THE TRANSITION FROM THE SUBBALLAST SECTION SHOWN FOR TANGENT TRACK TO THE WIDENED SECTION FOR SUPERELEVATED TRACK SHALL BE MADE THROUGH THE LENGTH OF THE SPIRAL.
- ALL DIMENSIONS TO RETAINING WALLS ARE TO THE INSIDE FACE OF WALL, NOT THE COPING FOR MSE WALLS.

GENERAL NOTES (CONTINUED):

- SEE GUIDEWAY PLAN AND PROFILE DRAWINGS FOR DETAILS AND LIMITS OF HORIZONTAL AND VERTICAL TRACK GEOMETRY, RETAINING WALL LOCATIONS AND BALLAST WALL LOCATIONS.
- TOP OF BALLAST SHALL BE EVEN WITH TOP OF TIE. MAINTAIN BALLAST IN CRIBS IN LINE WITH TOP OF TIE SO THAT IT SHALL BE AT LEAST ONE INCH BELOW THE BASE OF RAIL. SHOULDER BALLAST SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND END OF TIE. FOR RADIUS LESS THAN 1000 FEET, EXTEND BALLAST A MINIMUM OF 18 INCHES BEYOND END OF TIE ON OUTSIDE OF TRACK.
- THE SUBBALLAST SHOULDER SHALL BE A MINIMUM OF 2 FEET.



AT GRADE WITH BALLAST WALLS
NOT TO SCALE
STA 123+00.00 TO STA 123+75.00 (SB ONLY)

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 30 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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CHAD ANTHONY ALLEN, P.E. NO. 88427
ON 08/03/2012
URS CORPORATION TBPE ID #F-3162

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URS

1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

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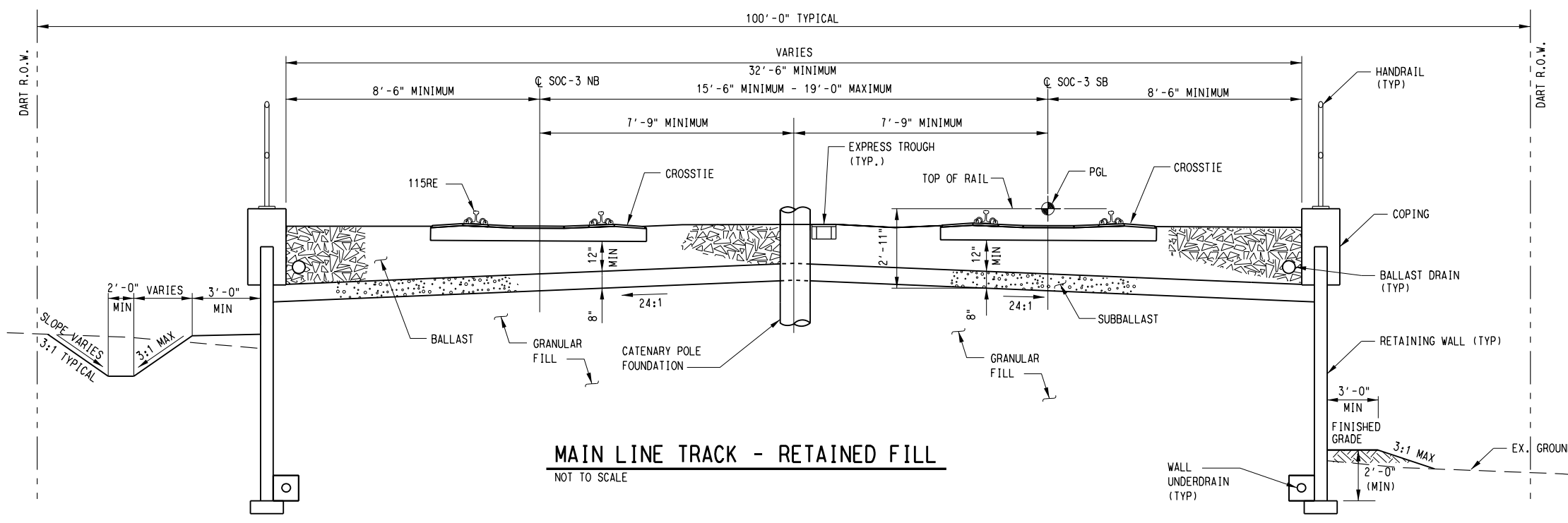
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SCALE	NO SCALE
DRAWN	D. KRUCIAK
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
TN CHARGE	P. ZHAO
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY
TYPICAL SECTIONS
SHEET 1 OF 5**

CONTRACT	DWG No.	CC7-0001	REV
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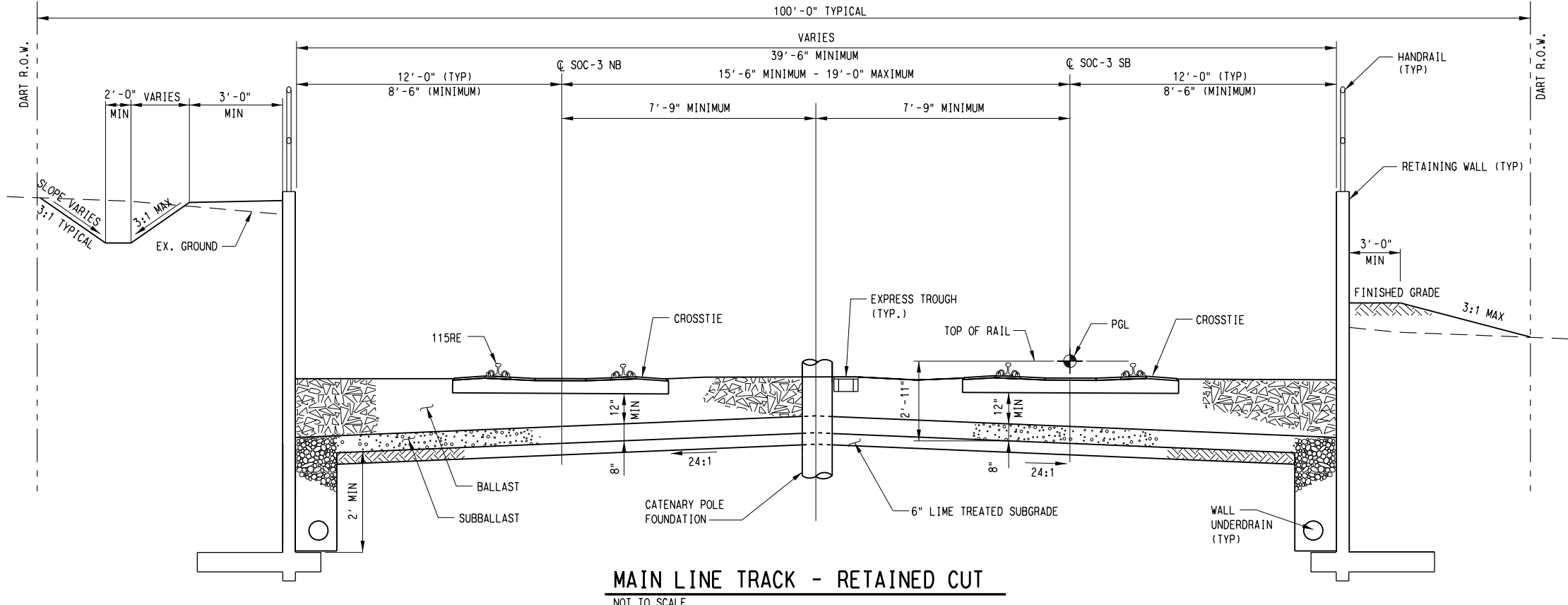
8/2/2012
\\dm-fps04\dm_projects\GFC\5\TO 24 SOC-3 PE-EA\DN\CVL-CIV\SOC3-CX1-0002.001



MAIN LINE TRACK - RETAINED FILL
NOT TO SCALE

STA 10+00.00 TO STA 10+81.75
 STA 28+92.25 TO STA 29+25.00
 STA 51+50.00 TO STA 51+75.00 (SB ONLY)
 STA 51+75.00 TO STA 70+30.00
 STA 70+30.00 TO STA 71+00.00
 STA 39+60.00 TO STA 70+76.64 (SB ONLY)
 STA 77+00.00 TO STA 77+50.00 (SB ONLY)
 STA 77+50.00 TO STA 77+99.09
 STA 90+18.24 TO STA 91+50.00
 STA 91+50.00 TO STA 92+25.00 (SB ONLY)
 STA 94+25.00 TO STA 97+75.00 (NB ONLY)
 STA 97+75.00 TO STA 98+00.91
 STA 106+08.25 TO STA 108+50.00
 STA 108+50.00 TO STA 109+00.00 (NB ONLY)

- NOTES:
1. SEE DWG. No. CC7-0001 FOR GENERAL NOTES.
 2. MINIMUM DISTANCES AT SUPERELEVATED TRACK SECTIONS SHALL COMPLY WITH DART'S STRUCTURAL STANDARD DRAWINGS.



MAIN LINE TRACK - RETAINED CUT
NOT TO SCALE

STA 31+50.00 TO STA 38+00.00 (NB ONLY)
 STA 39+50.00 TO STA 43+50.00 (NB ONLY)
 STA 43+50.00 TO STA 47+00.00
 STA 47+00.00 TO STA 49+50.00 (NB ONLY)
 STA 112+00.00 TO STA 112+50.00 (SB ONLY)
 STA 112+50.00 TO STA 116+50.00
 STA 116+50.00 TO STA 118+50.00 (SB ONLY)
 STA 120+50.00 TO STA 121+00.00 (SB ONLY)
 STA 121+00.00 TO STA 121+50.00
 STA 134+00.00 TO STA 136+25.00
 STA 136+25.00 TO STA 136+65.41 (NB ONLY)

NOT AN APPROVED DRAWING
 PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No.		31 OF 79
LIGHT RAIL TRANSIT SYSTEM		
LINE SECTION SOC-3		
GUIDEWAY		
TYPICAL SECTIONS		
SHEET 2 OF 5		
CONTRACT	DWG No.	CC7-0002
REV		

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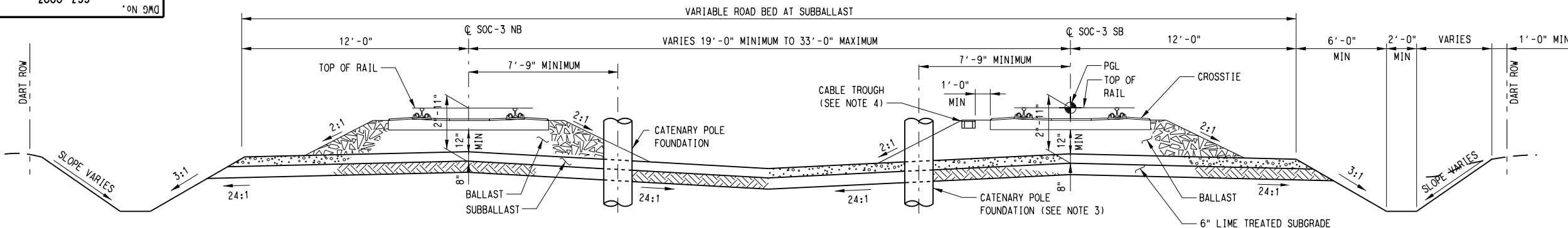
DART PROJECT

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SCALE	NO SCALE
DRAWN	D. KRUCIAK
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

Jane L. Yeow, V61
 \$BMODEL\$

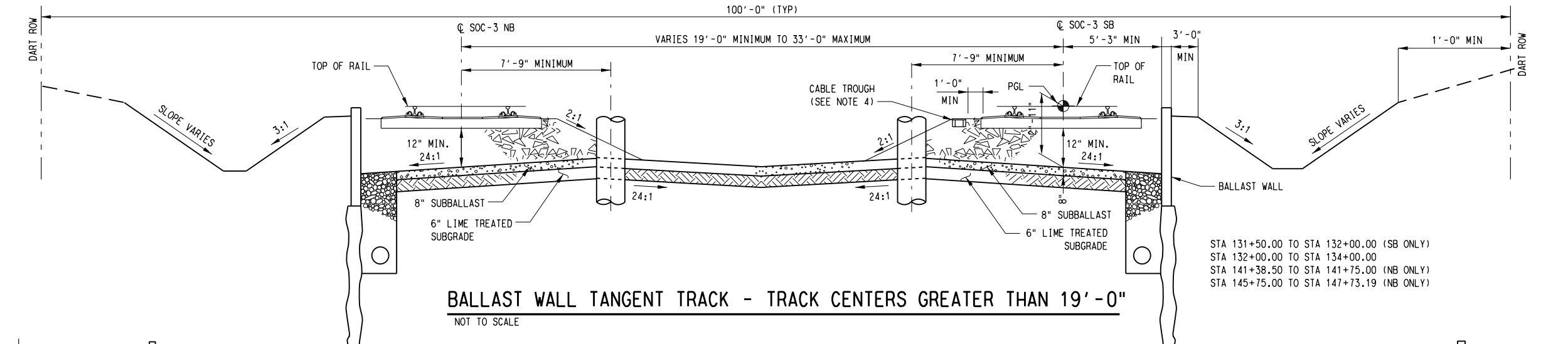


AT GRADE TANGENT TRACK - TRACK CENTERS GREATER THAN 19'-0"

NOT TO SCALE

STA 131+39.00 TO STA 131+50.00
 STA 131+50.00 TO STA 132+00.00 (NB ONLY)
 STA 136+25.00 TO STA 136+65.42 (SB ONLY)

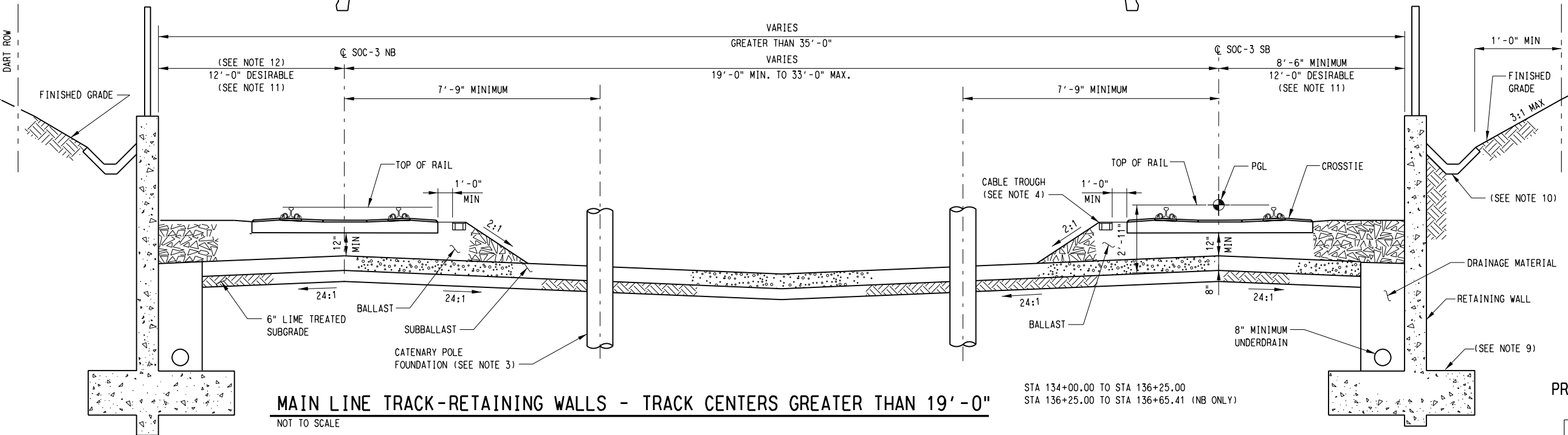
STA 141+25.42 TO STA 141+75.00 (SB ONLY)
 STA 141+75.00 TO STA 142+02.86
 STA 142+62.86 TO STA 145+75.00
 STA 145+75.00 TO STA 147+73.19 (SB ONLY)



BALLAST WALL TANGENT TRACK - TRACK CENTERS GREATER THAN 19'-0"

NOT TO SCALE

STA 131+50.00 TO STA 132+00.00 (SB ONLY)
 STA 132+00.00 TO STA 134+00.00
 STA 141+38.50 TO STA 141+75.00 (NB ONLY)
 STA 145+75.00 TO STA 147+73.19 (NB ONLY)



MAIN LINE TRACK-RETAINING WALLS - TRACK CENTERS GREATER THAN 19'-0"

NOT TO SCALE

STA 134+00.00 TO STA 136+25.00
 STA 136+25.00 TO STA 136+65.41 (NB ONLY)

NOTES:

- SEE SHEET CC7-0001 FOR GENERAL NOTES.
- CENTER DITCH PROVIDED WHEN TRACK CENTERS EXCEED 19 FEET.
- CATENARY POLES WILL BE LOCATED IN ACCORDANCE WITH SYSTEM ELEMENTS DRAWINGS PROVIDED AT FINAL DESIGN.
- CABLE TROUGH TO BE LOCATED AS SHOWN ON SYSTEM ELEMENT DRAWINGS PROVIDED AT FINAL DESIGN. PROVIDE MINIMUM 1 FOOT SHOULDER BALLAST BETWEEN END OF TIE AND EDGE OF CABLE TROUGH.
- TOP OF BALLAST SHALL BE EVEN WITH TOP OF TIE. MAINTAIN BALLAST IN CRIBS IN LINE WITH TOP OF TIE END BALLAST SO THAT IT SHALL BE AT LEAST ONE INCH BELOW THE BASE OF RAIL.
- APPLICABLE DIMENSIONS SHOWN ON THIS DRAWING GOVERN FOR TRACK ADJACENT TO A SINGLE RETAINING WALL.
- DIMENSIONS SHOWN DEFINE BALLAST CROSS SECTION ONLY.
- THE TRANSITION FROM THE BALLAST SECTION FOR TANGENT TRACK TO THE BALLAST SECTION FOR SUPERELEVATED TRACK SHALL BE MADE THROUGH THE LENGTH OF THE SPIRAL.
- SEE DART STRUCTURAL STANDARD AND DIRECTIVE DRAWINGS FOR WALL AND FOOTING DIMENSIONS AND DETAILS.
- PAVED DITCH WILL BE AS PER JURISDICTIONAL AUTHORITY STANDARDS, BY SITE CONTRACTOR.
- ABSOLUTE MINIMUM DISTANCE OF 8'-0" MAY BE USED ON TANGENT TRACK WHERE WALKWAY IS AVAILABLE ELSEWHERE ON THE RIGHT OF WAY WITH DART APPROVAL.
- MINIMUM DISTANCE ON CURVED TRACK SHALL BE CALCULATED AS DEFINED IN SECTION 1.9 "CLEARANCES" OF THE DART DESIGN CRITERIA MANUAL, VOLUME 1, FACILITIES DESIGN.

**NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 5% DESIGN**

CONTRACT SHEET No. 32 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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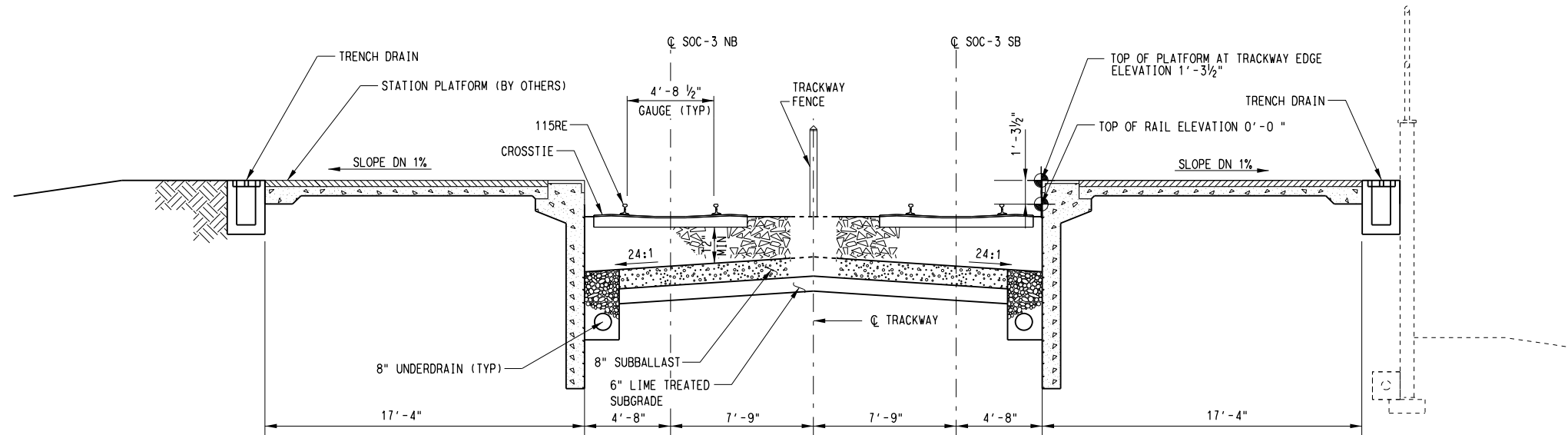
SCALE	NO SCALE
DRAWN	J. YEOW
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY
TYPICAL SECTIONS
SHEET 3 OF 5**

CONTRACT	DWG No.	CC7-0003	REV
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8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DM\CVL-CIV\303-CX1-0004.001

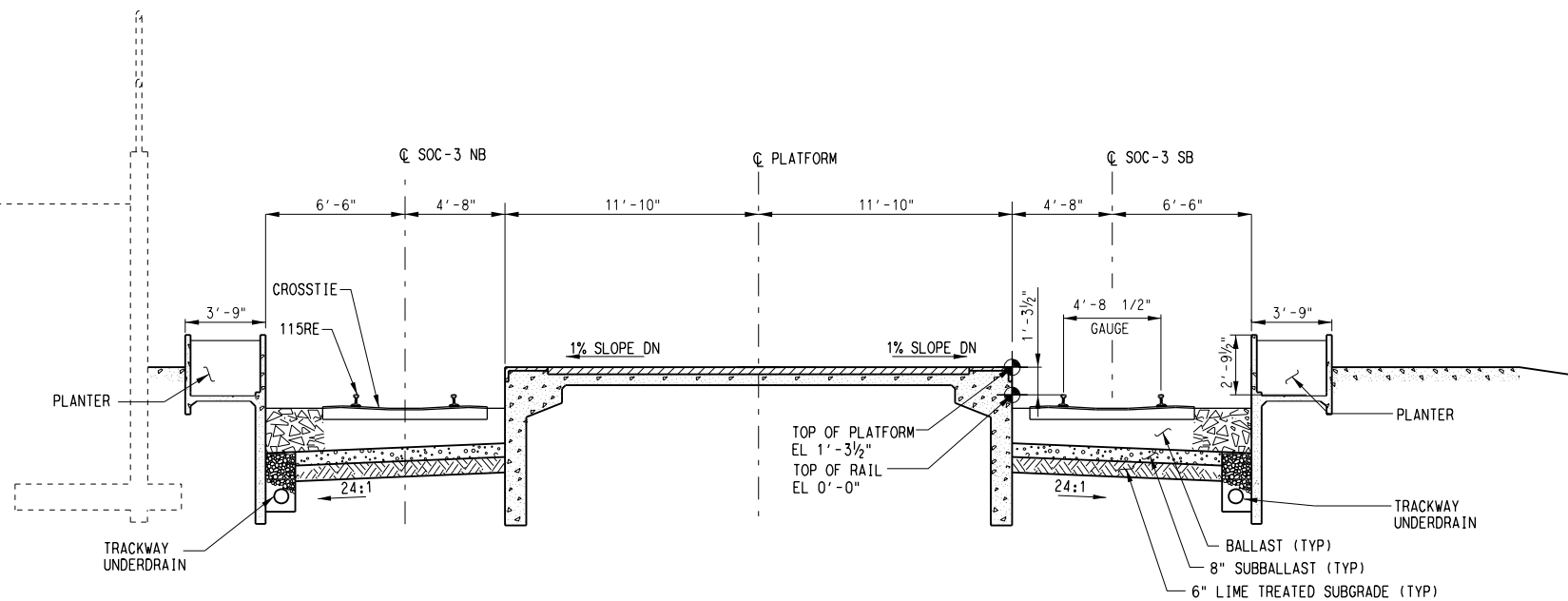
June L. Yeow, V61 \$BMODEL\$S



NOTE:
 1. SEE DWG. No. CC7-0001 FOR GENERAL NOTES.

MAIN LINE TRACK - SIDE PLATFORM STATION

NOT TO SCALE
 STA 70+76.64 TO STA 75+36.64 (CAMP WISDOM STATION)
 STA 70+76.64 TO STA 71+00.00 (SB ONLY RETAINED FILL WALL)



MAIN LINE TRACK - CENTER PLATFORM TERMINAL STATION

NOT TO SCALE
 STA 136+65.42 TO STA 141+25.42 (UNT DALLAS STATION)
 STA 136+65.42 TO STA 140+50.00 (NB ONLY RETAINED CUT WALL)

NOT AN APPROVED DRAWING
 PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 33 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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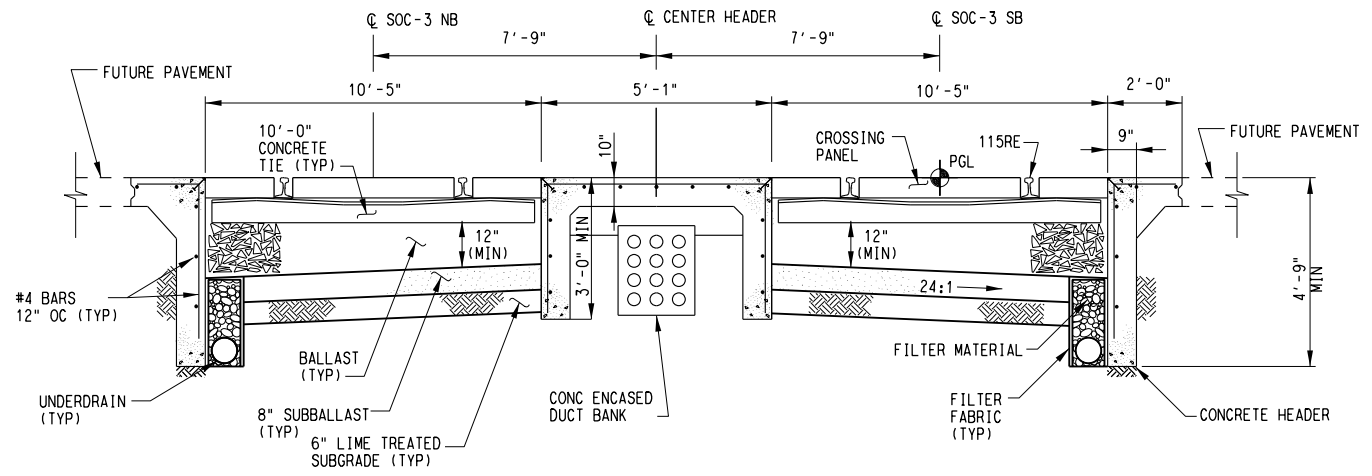
SCALE	NO SCALE
DRAWN	D. KRUCIAK
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 GUIDEWAY
 TYPICAL SECTIONS
 SHEET 4 OF 5**

CONTRACT	DWG No.	CC7-0004	REV
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8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-CIV\SOC3-CX1-0005.001

June 1, Yeow, V61
S&M\DES

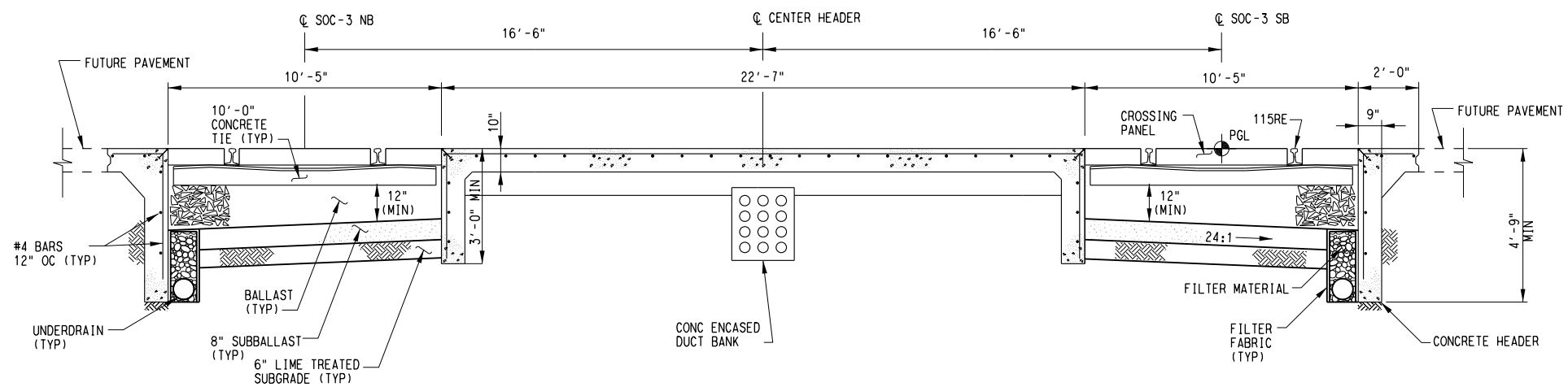


- NOTES:
1. SEE DWG. No. CC7-0001 FOR GENERAL NOTES.
 2. HEADER DETAIL SHOWN IS FOR A TYPICAL CONCRETE PAVEMENT INTERFACE. REFER TO DART STANDARD DRAWINGS FOR OTHER TYPES OF INTERFACE.
 3. REFER TO DART STANDARD DRAWING CS6-0004 FOR ADDITIONAL NOTES AND DETAILS.

HIGHWAY/STREET GRADE CROSSING 15'-6" TRACK CENTER

NOT TO SCALE

STA 38+48.57 TO STA 39+28.64 (FUTURE REDBIRD LANE CROSSING)
STA 121+91.26 TO STA 122+47.26 (FUTURE UNT PRIVATE ROAD CROSSING)



HIGHWAY/STREET GRADE CROSSING 33'-0" TRACK CENTER

NOT TO SCALE

STA 142+02.86 TO STA 142+62.86 (FUTURE UNT PRIVATE ROAD CROSSING)

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 34 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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214-741-7777
URS CORPORATION TBPE ID #F-3162

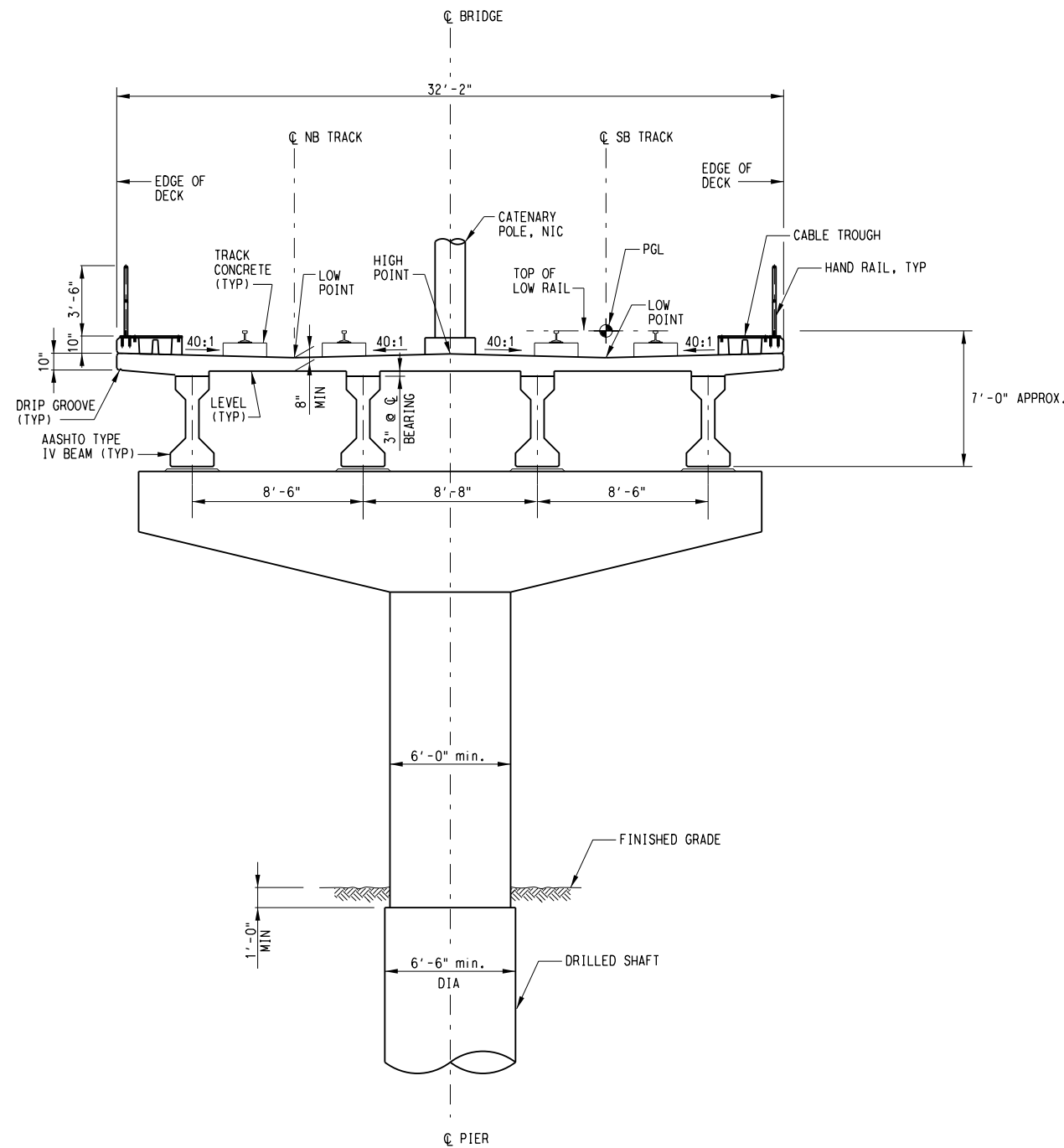
DART PROJECT

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SCALE	NO SCALE
DRAWN	D. KRUCIAK
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

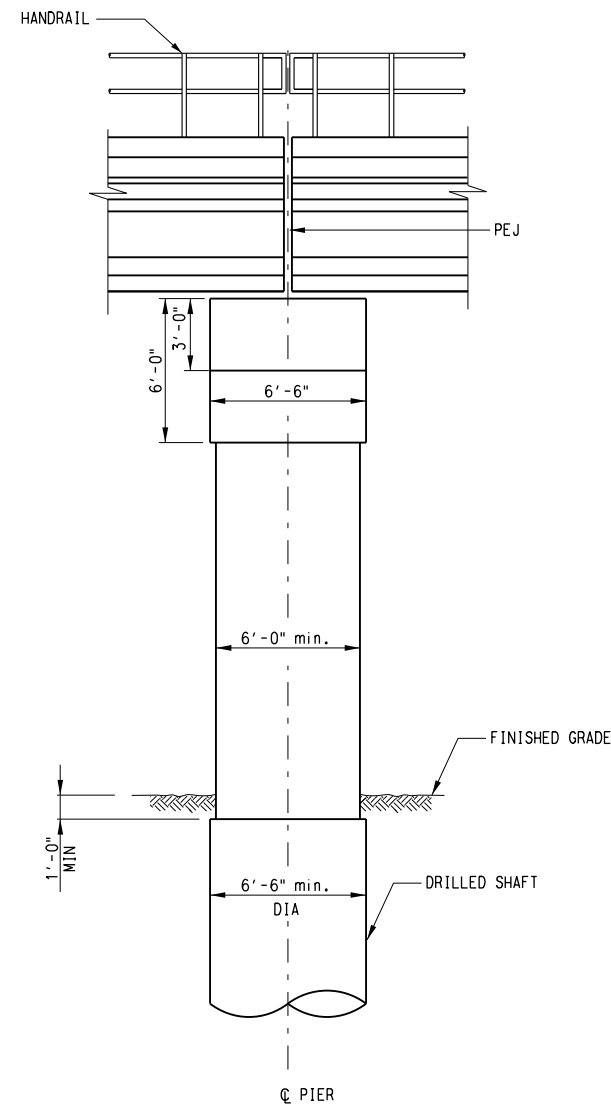
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY
TYPICAL SECTIONS
SHEET 5 OF 5**

CONTRACT	DWG No.	REV
	CC7-0005	



TYPICAL SECTION 1
SCALE: 1/4" = 1'-0"

STA 10+80.00 TO STA 19+80.00	STA 78+70.00 TO STA 80+50.00
STA 20+84.00 TO STA 28+94.00	STA 81+60.00 TO STA 84+30.00
STA 53+56.00 TO STA 58+96.00	STA 85+70.00 TO STA 90+20.00
STA 59+70.00 TO STA 67+78.00	STA 98+00.00 TO STA 106+10.00



ELEVATION 2
SCALE: 1/4" = 1'-0"

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 35 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

AASHTO TYPE IV BEAM
TYPICAL SECTION 1

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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1820 REGAL ROW, SUITE 200
DALLAS, TEXAS 75235
FIRM REG. NO. 1741

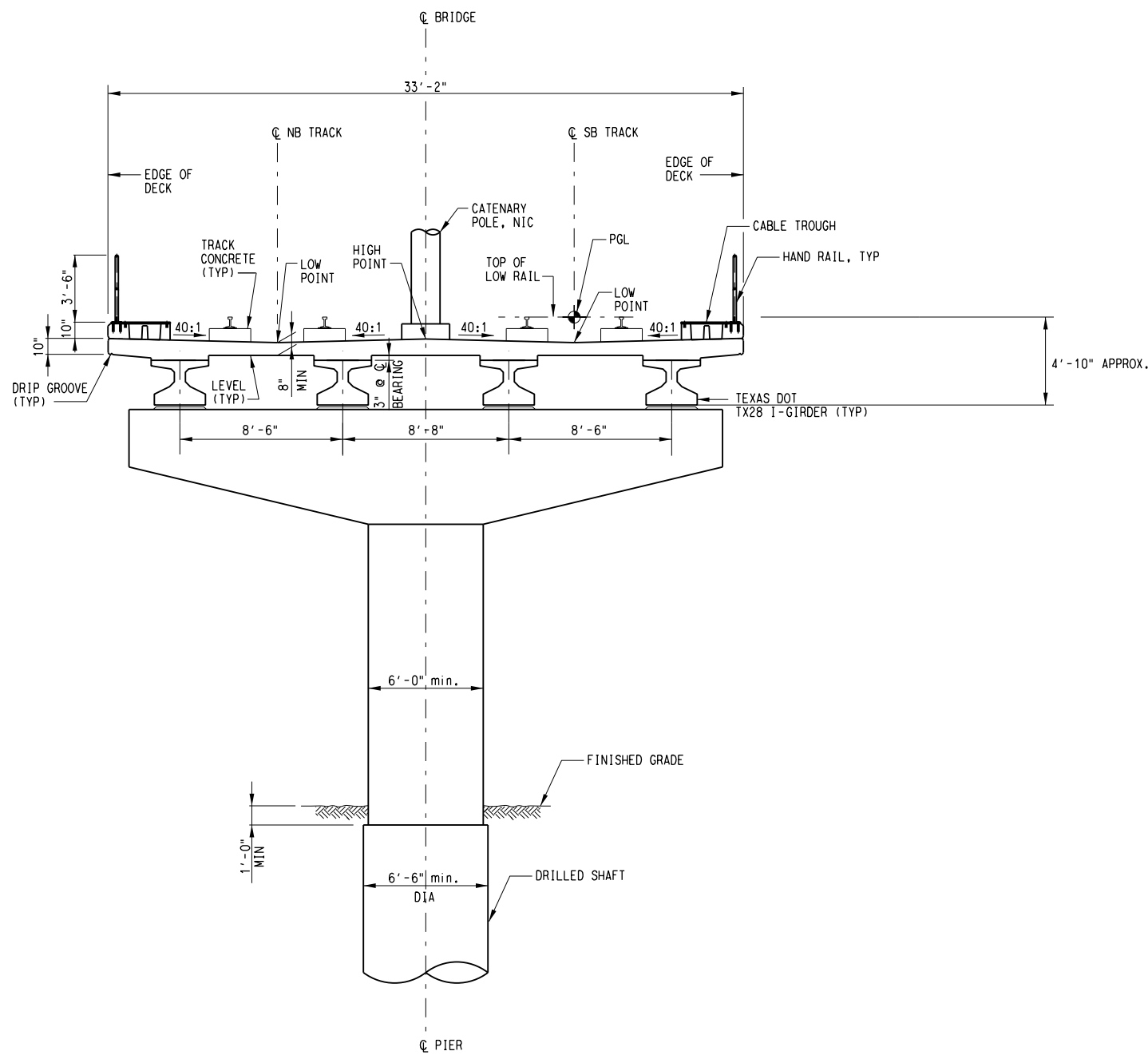
URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

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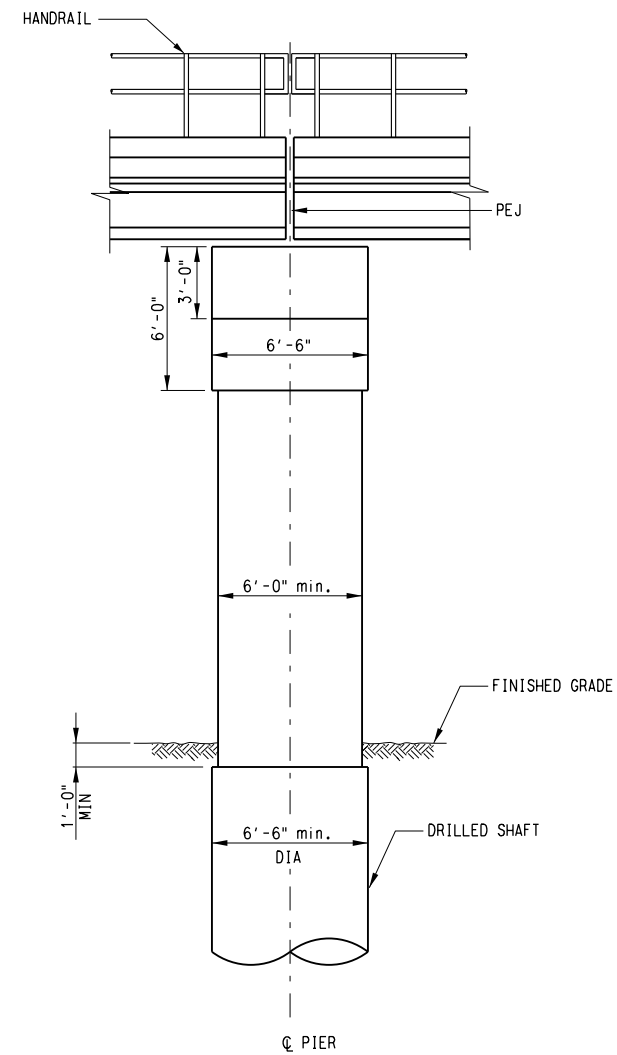
SCALE	1/4" = 1'-0"
DRAWN	P. GUNJUR
DESIGNED	P. GUNJUR
CHECKED	I. HWANG
TN CHARGE	C. ALLEN
DATE	03 AUG 12

CONTRACT	DWG No.	REV
	SC1-0001	



TYPICAL SECTION **1**
SCALE: 1/4" = 1'-0"

STA 19+80.00 TO STA 20+84.00



ELEVATION **2**
SCALE: 1/4" = 1'-0"

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 36 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

TEXAS DOT TX28 I-BEAM
TYPICAL SECTION 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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FIRM REG. NO. 1741

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SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE 10 #F-3162

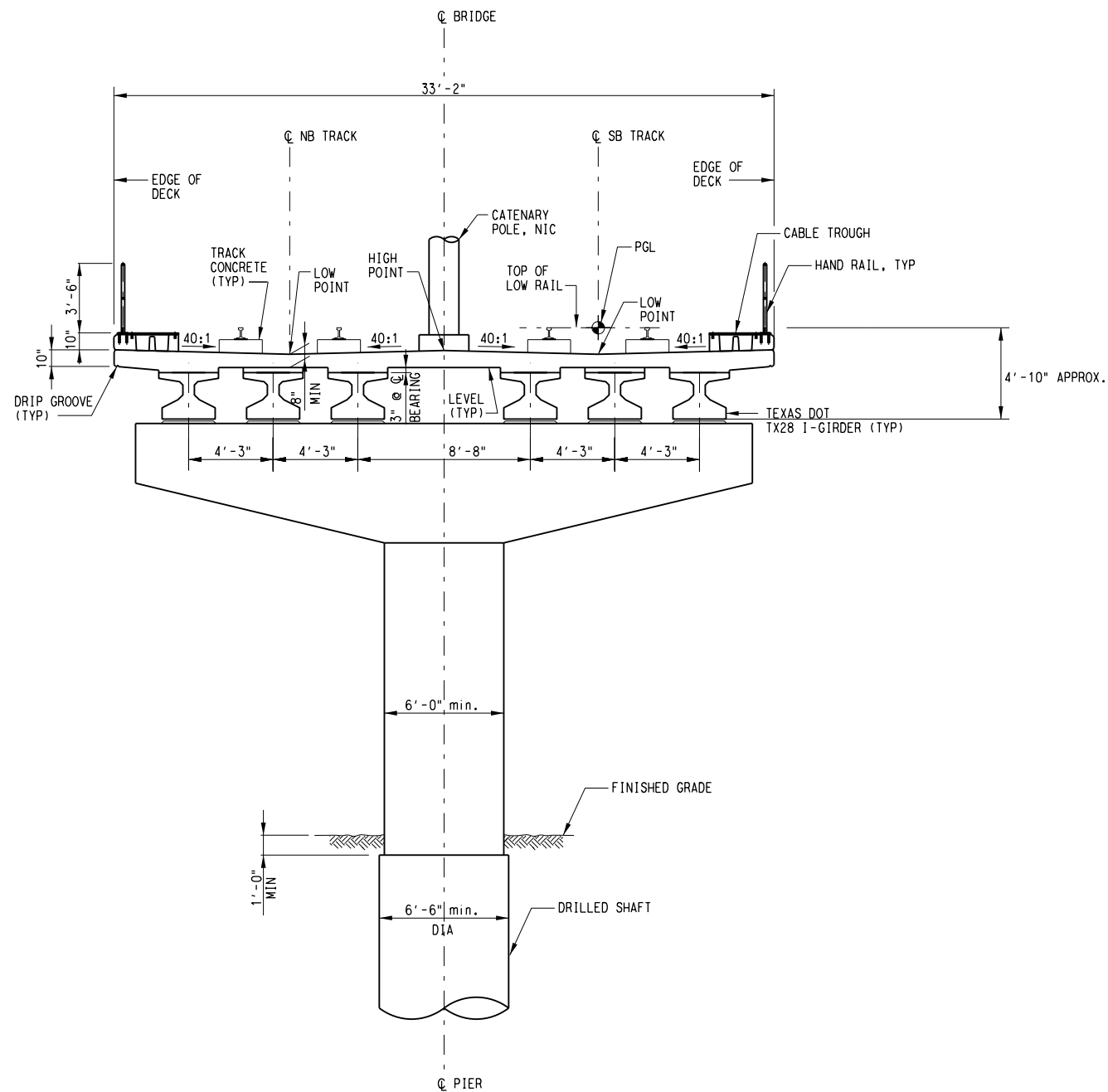
DART PROJECT

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SCALE	1/4" = 1'-0"
DRAWN	P. GUNJUR
DESIGNED	P. GUNJUR
CHECKED	I. HWANG
IN CHARGE	C. ALLEN
DATE	03 AUG 12

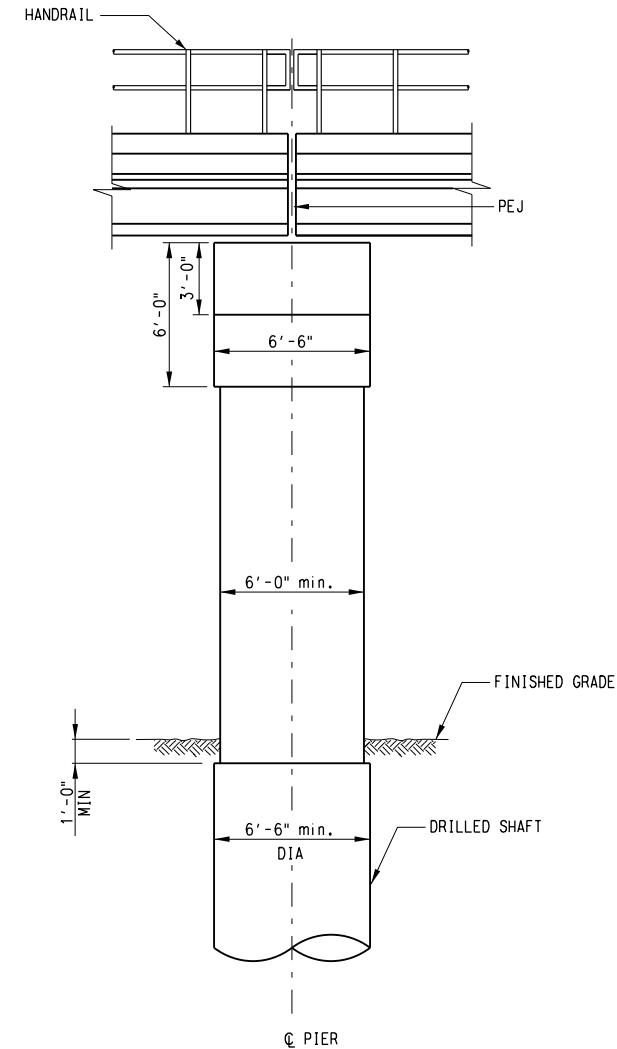
CONTRACT	DWG No.	SC1-0002	REV
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8/2/2012
 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DGN\CVL-ST\SOC3SX03.008



TYPICAL SECTION 1
 SCALE: 1/4"=1'-0"

STA 58+96.00 TO STA 59+70.00
 STA 78+00.00 TO STA 78+70.00



ELEVATION 2
 SCALE: 1/4"=1'-0"

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CONTRACT SHEET No. 37 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	1/4" = 1'-0"
DRAWN	P. GUNJUR
DESIGNED	P. GUNJUR
CHECKED	I. HWANG
IN CHARGE	C. ALLEN
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3**

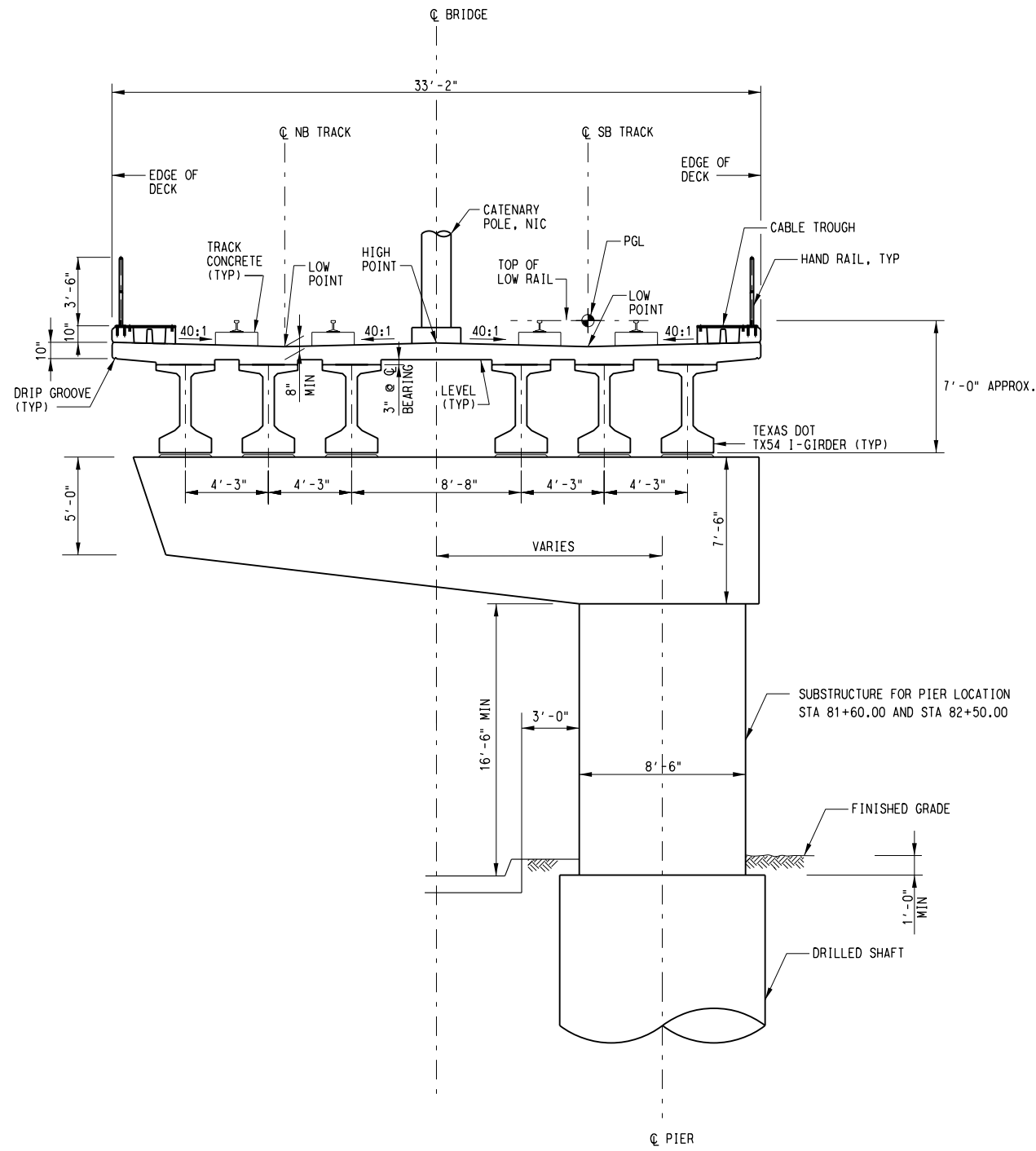
**TEXAS DOT TX28 I-BEAM
 TYPICAL SECTION 3**

CONTRACT: CAES CONTRACT DWG No. SC1-0003 REV

June 1, 2012
 JYeow_V61
 \$\$\$MODEL\$\$\$

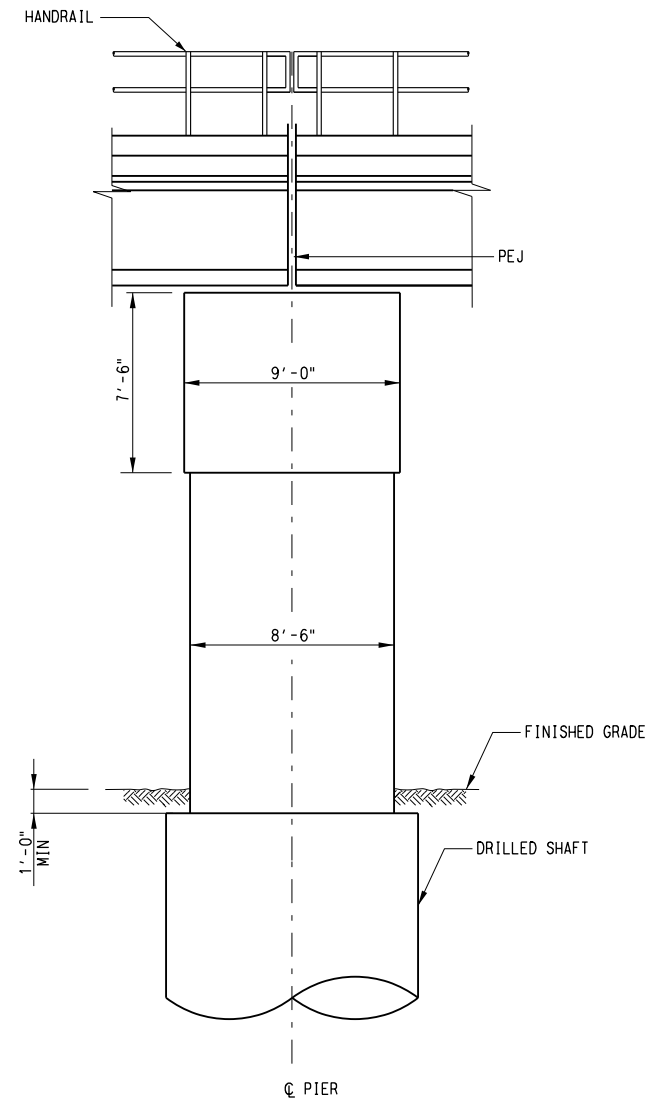
8/2/2012
 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-ST\SOC3\SX04.008

Jane L. Yeow, V6
 \$\$\$MODEL\$\$\$



TYPICAL SECTION 1
 SCALE: 1/4" = 1'-0"

STA 80+50.00 TO STA 81+60.00



ELEVATION 2
 SCALE: 1/4" = 1'-0"

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CONTRACT SHEET No. 38 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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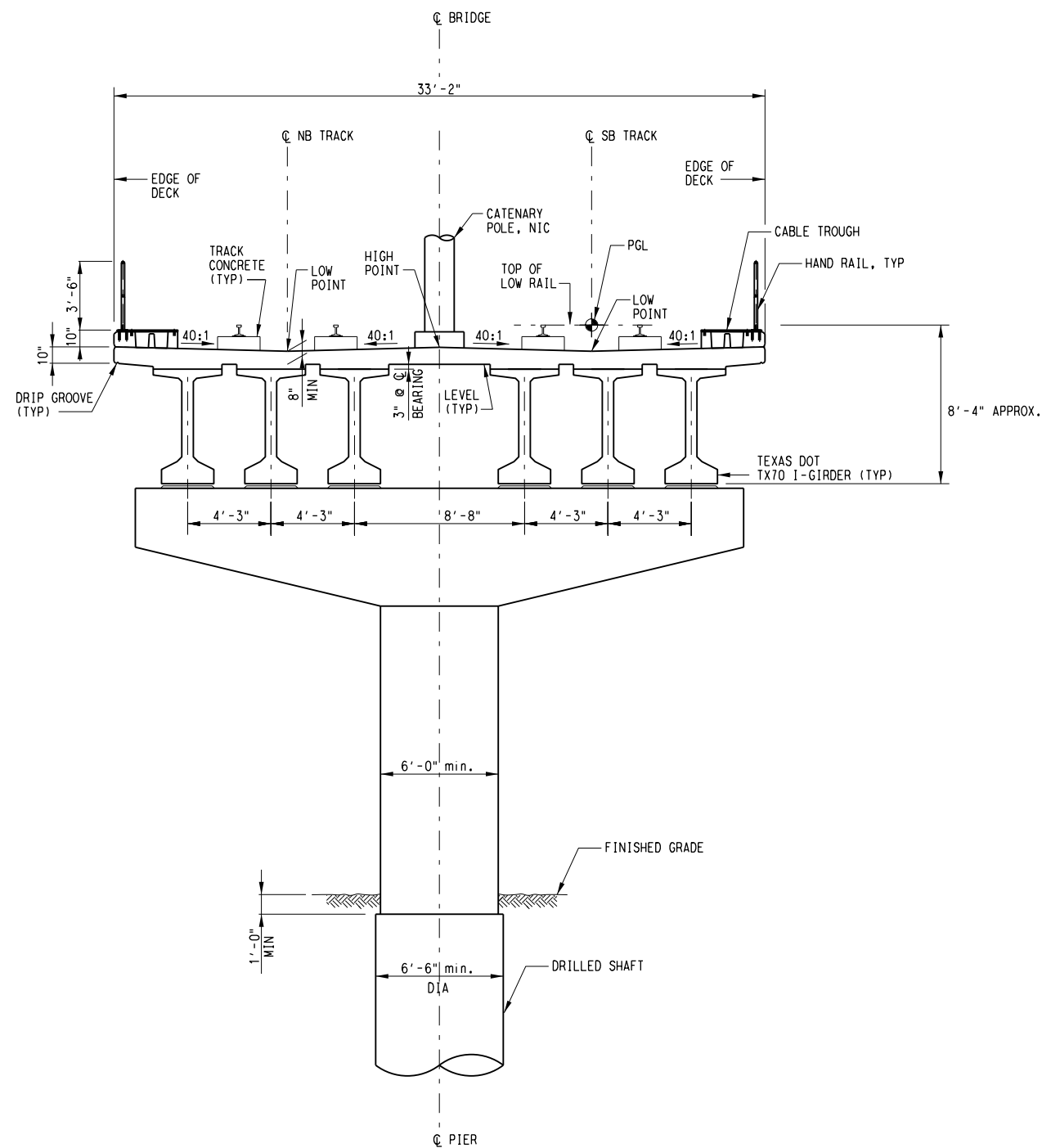
SCALE	1/4" = 1'-0"
DRAWN	P. GUNJUR
DESIGNED	P. GUNJUR
CHECKED	I. HWANG
IN CHARGE	C. ALLEN
DATE	03 AUG 12



**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 TEXAS DOT TX54 I-BEAM
 TYPICAL SECTION 4**

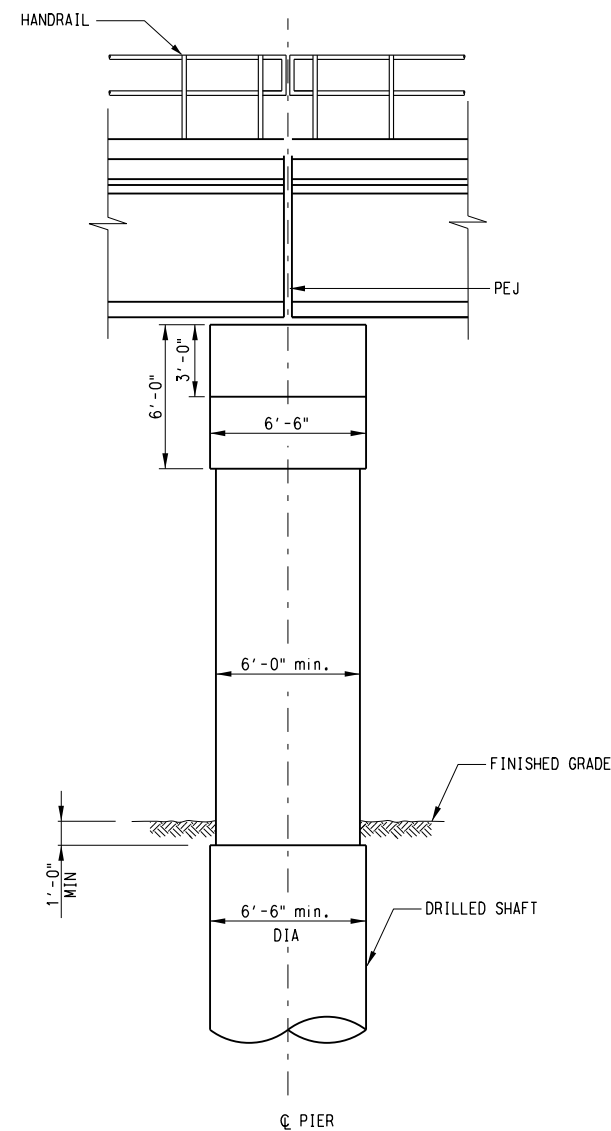
CONTRACT DWG No. SC1-0004 REV

8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-ST\SOC3SX05.008



TYPICAL SECTION 1
SCALE: 1/4"=1'-0"

STA 84+30.00 TO STA 85+70.00



ELEVATION 2
SCALE: 1/4"=1'-0"

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 39 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

TEXAS DOT TX70 I-BEAM
TYPICAL SECTION 5

REV	△	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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214-741-7777
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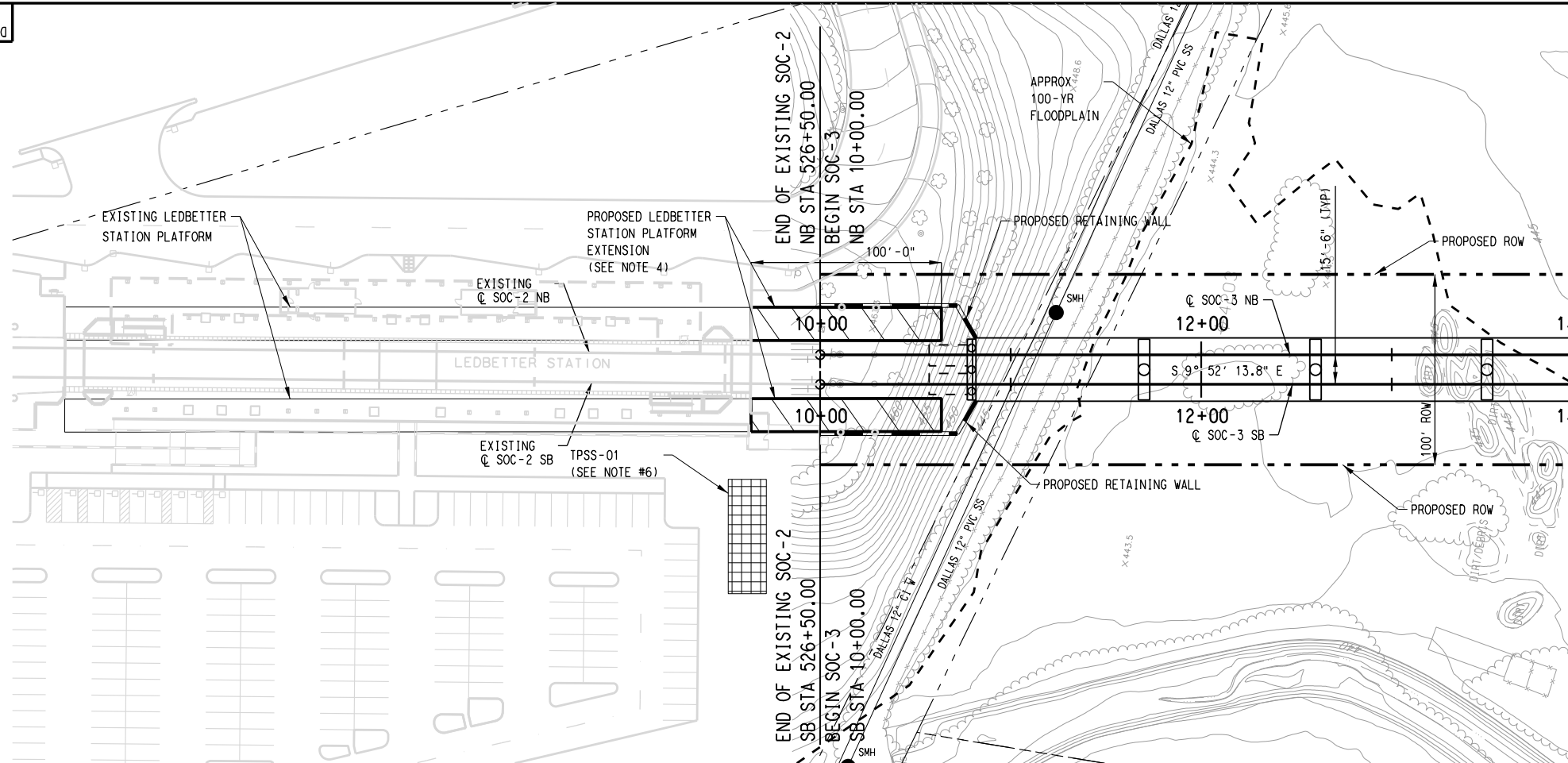
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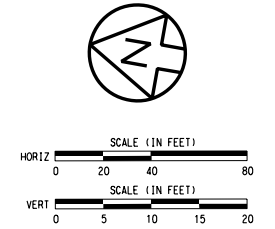
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SCALE	1/4" = 1'-0"
DRAWN	P. GUNJUR
DESIGNED	P. GUNJUR
CHECKED	J. HWANG
TN CHARGE	C. ALLEN
DATE	03 AUG 12

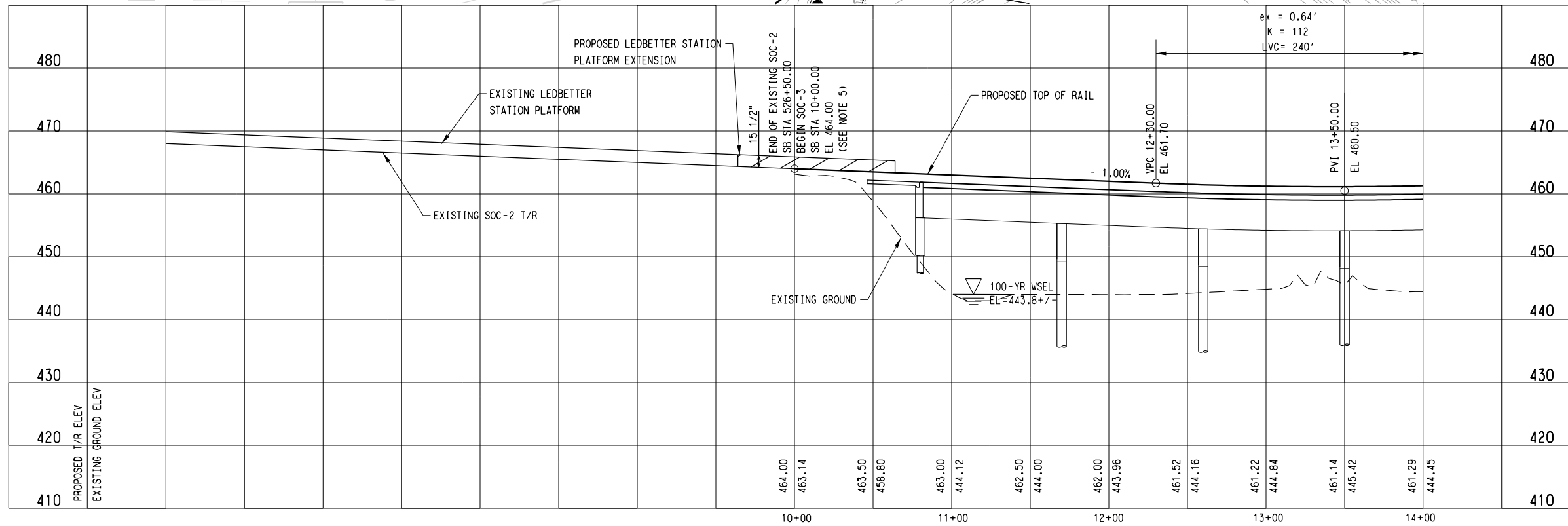
CONTRACT	DWG No.	REV
CAES	SC1-0005	



MATCH LINE SOC-3 SB STA 14+00.00
SEE DWG No. CC1-0002



- NOTE:
- SEE EXISTING UTILITY COMPOSITE SHEETS FOR NOTES AND DETAILS ABOUT EXISTING UTILITIES.
 - THE CONTROL ALIGNMENT STATIONING IS BASED ON THE CENTERLINE STATIONING OF THE SOUTHBOUND TRACK.
 - OFFSETS SHOWN TO RETAINING WALLS ARE TO THE INSIDE FACE OF THE RETAINING WALL, NOT THE COPING FOR MSE WALLS.
 - SEE SEPARATE LEDBETTER STATION IMPROVEMENT PLANS FOR ADDITIONAL DETAILS REGARDING THE LEDBETTER STATION PLATFORM EXTENSION AND OTHER IMPROVEMENTS IN THE AREA OF THIS STATION.
 - THE EXISTING RAILS AT LEDBETTER STATION HAVE BEEN LOCATED HORIZONTALLY AND VERTICALLY IN THE FIELD WITH ON-THE-GROUND SURVEY AS PART OF THIS PROJECT.
 - TPSS SIZE AND LOCATION ARE APPROXIMATE. A TRACTION POWER LOAD FLOW ANALYSIS AND A VOLTAGE DROP ANALYSIS HAVE NOT BEEN PERFORMED. THE FINAL SYSTEMS ENGINEERS MUST CONFIRM THE LOCATION AND SIZE OF THE TPSS NECESSARY FOR THIS PROJECT. MEDIUM VOLTAGE UTILITY POWER IS REQUIRED. COORDINATION WITH THE UTILITY PROVIDER MUST OCCUR DURING FINAL DESIGN TO CONFIRM AVAILABILITY OF ELECTRIC SERVICE AND IDENTIFY EQUIPMENT NECESSARY FOR CONNECTION.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 40 OF 79

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 10+00.00 TO STA 14+00.00**

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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ON 09/14/2012

URS CORPORATION TBPE ID #F-3162

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FIRM REG. NO. 1741

URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

SCALE AS SHOWN

DRAWN C. KESTILA

DESIGNED C. KESTILA/J. YEOW

CHECKED C. ALLEN

IN CHARGE P. ZHAO

DATE 14 SEPT 12

DART

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CONTRACT	DWG No.	CC1-0001	REV
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9/11/2012 I:\Projects\1_SOUTHGPC 5\TO 24 SOC-3 PE-EN\DRGN\CVL-AL\SOC3-CC1-0001_040

don_martin_v6: \$\$\$MODEL\$\$\$\$

9/11/2012 1:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0002.040

don_martin_v61 \$\$\$\$\$\$

SEE DWG No. CC1-0001
MATCH LINE SOC-3 SB STA 14+00.00

MATCH LINE SOC-3 SB STA 22+00.00
SEE DWG No. CC1-0003

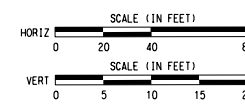
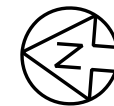
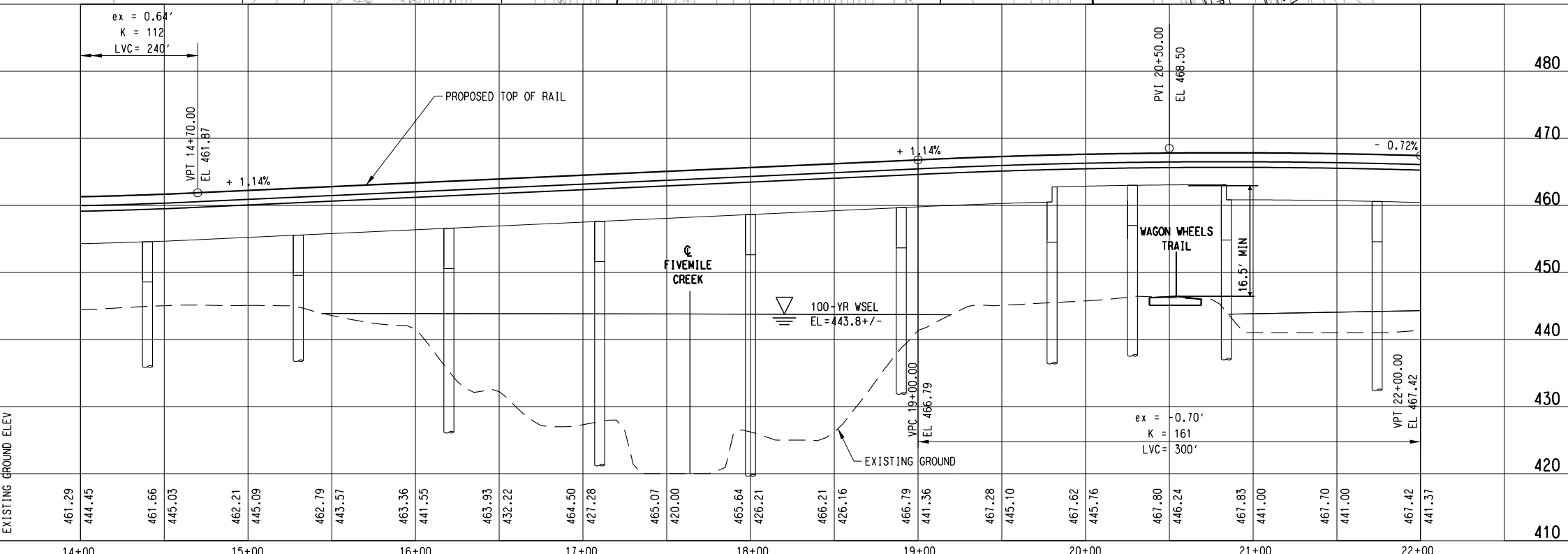
TS 14+03.81
TS 14+03.81

SC 15+98.81
SC 15+98.81

18+00
18+00

20+00
20+00

22+00
22+00



	SOC3-A (SB)	SOC3-AA (NB)
Rc=	3100.00'	3115.50'
Ls=	195.00'	195.00'
Lc=	1381.74'	1389.62'
Ea=	3.25"	3.25"
Eu=	1.41"	1.38"
V=	60 MPH	60 MPH

- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - CRASH PROTECTION MAY BE REQUIRED AT PIERS NEAR STREET CROSSINGS OR WHEN PIERS ARE RUNNING ADJACENT TO THE ROADWAY. FINAL DESIGNER TO DETERMINE IF CRASH BARRIERS ARE REQUIRED PER CITY OF DALLAS ROADWAY DESIGN GUIDELINES.
 - A MODERATE NOISE IMPACT IS PROJECTED AT THE SINGLE-FAMILY RESIDENCE IN THIS AREA. THE PREFERRED MITIGATION MEASURE IS AN 800-FOOT LONG SOUND BARRIER WALL CONSTRUCTED ON TOP OF AND ALONG THE WEST EDGE OF THE PROPOSED BRIDGE STRUCTURE BETWEEN PROJECT STATIONS 20+00 AND 28+00 WITH SOLID BARRIER PANELS EXTENDING FROM THE BOTTOM OF THE TRACK SLAB TO A HEIGHT OF FOUR FEET ABOVE THE TOP-OF-RAIL ELEVATION.

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CONTRACT SHEET No. 41 OF 79

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	C. KESTILAJA, YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

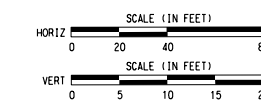
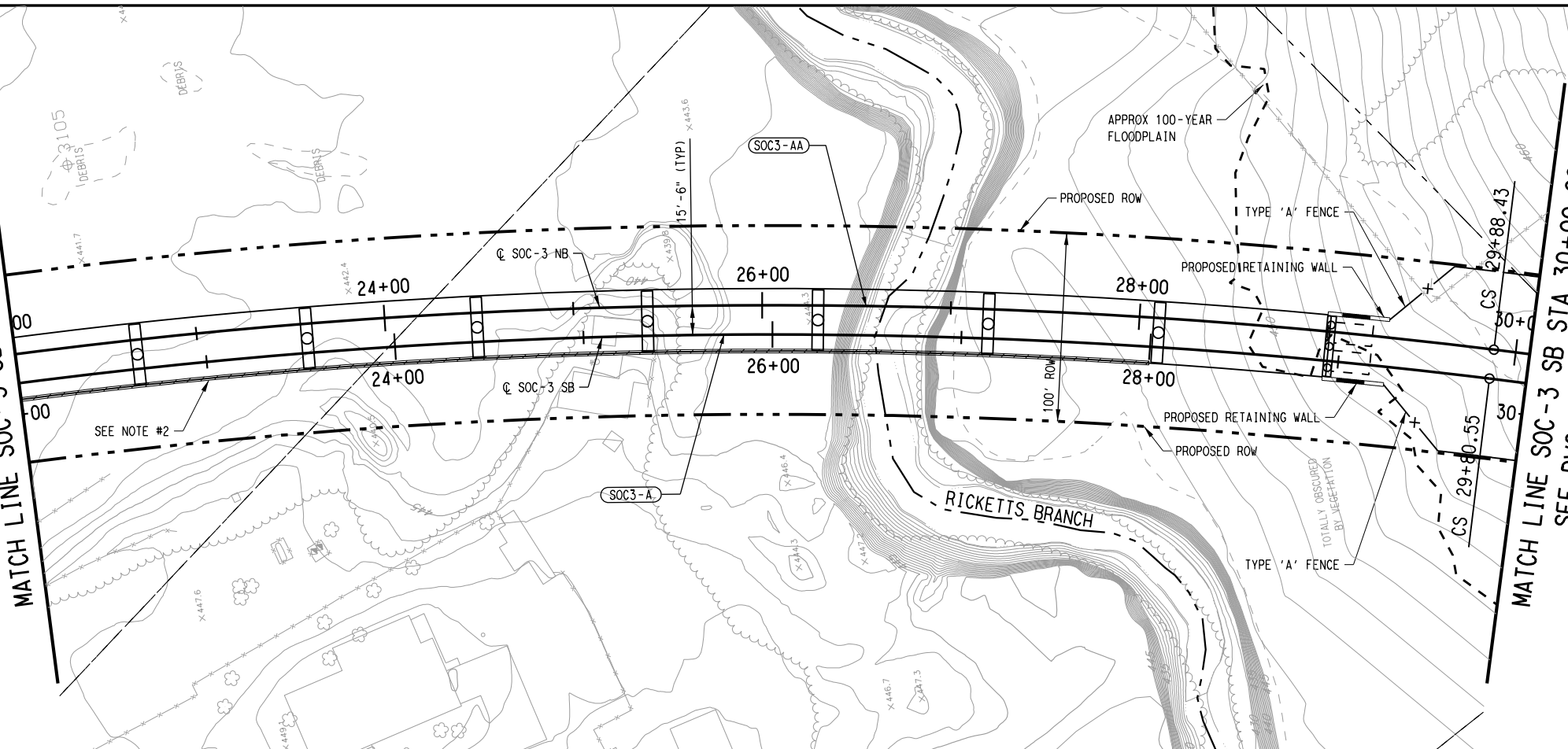
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 14+00.00 TO STA 22+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

CONTRACT	DWG No.	CC1-0002	REV
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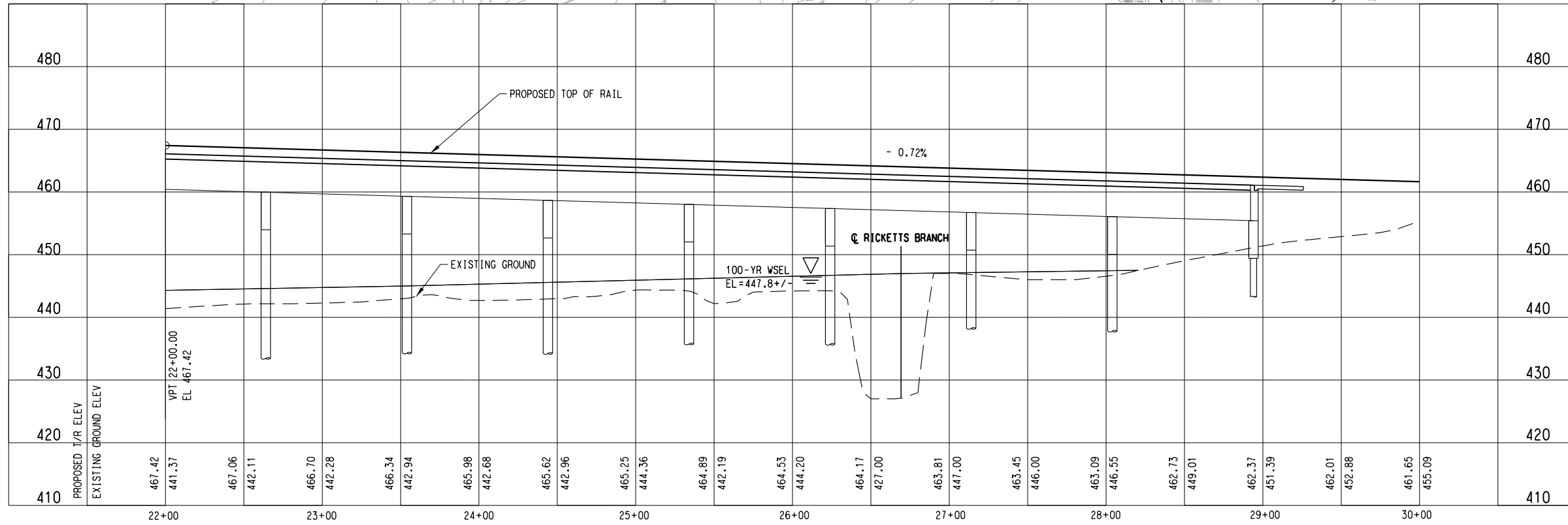
SEE DWG No. CC1-0002
MATCH LINE SOC-3 SB STA 22+00.00

MATCH LINE SOC-3 SB STA 30+00.00
SEE DWG No. CC1-0004



	SOC3-A (SB)	SOC3-AA (NB)
Rc=	3100.00'	3115.50'
Ls=	195.00'	195.00'
Lc=	1381.74'	1389.62'
Ea=	3.25"	3.25"
Eu=	1.41"	1.38"
V=	60 MPH	60 MPH

- NOTE:
- SEE DWG No. CC1-0001 FOR ADDITIONAL NOTES.
 - A MODERATE NOISE IMPACT IS PROJECTED AT THE SINGLE-FAMILY RESIDENCE IN THIS AREA. THE PREFERRED MITIGATION MEASURE IS AN 800-FOOT LONG SOUND BARRIER WALL CONSTRUCTED ON TOP OF AND ALONG THE WEST EDGE OF THE PROPOSED BRIDGE STRUCTURE BETWEEN PROJECT STATIONS 20+00 AND 28+00 WITH SOLID BARRIER PANELS EXTENDING FROM THE BOTTOM OF THE TRACK SLAB TO A HEIGHT OF FOUR FEET ABOVE THE TOP-OF-RAIL ELEVATION.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 42 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 22+00.00 TO STA 30+00.00

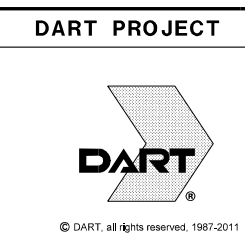
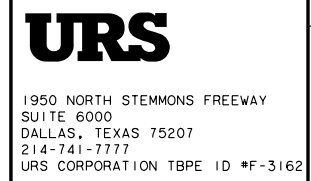
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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12



CONTRACT	DWG No.	CC1-0003	REV
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9/11/2012 1:22:25 PM I:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0003.040

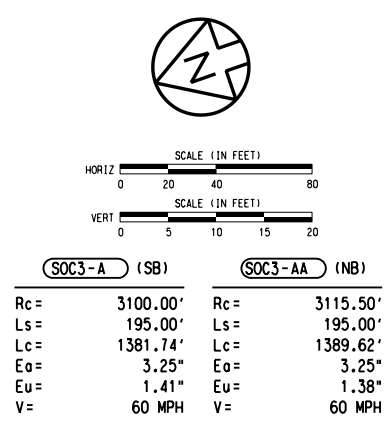
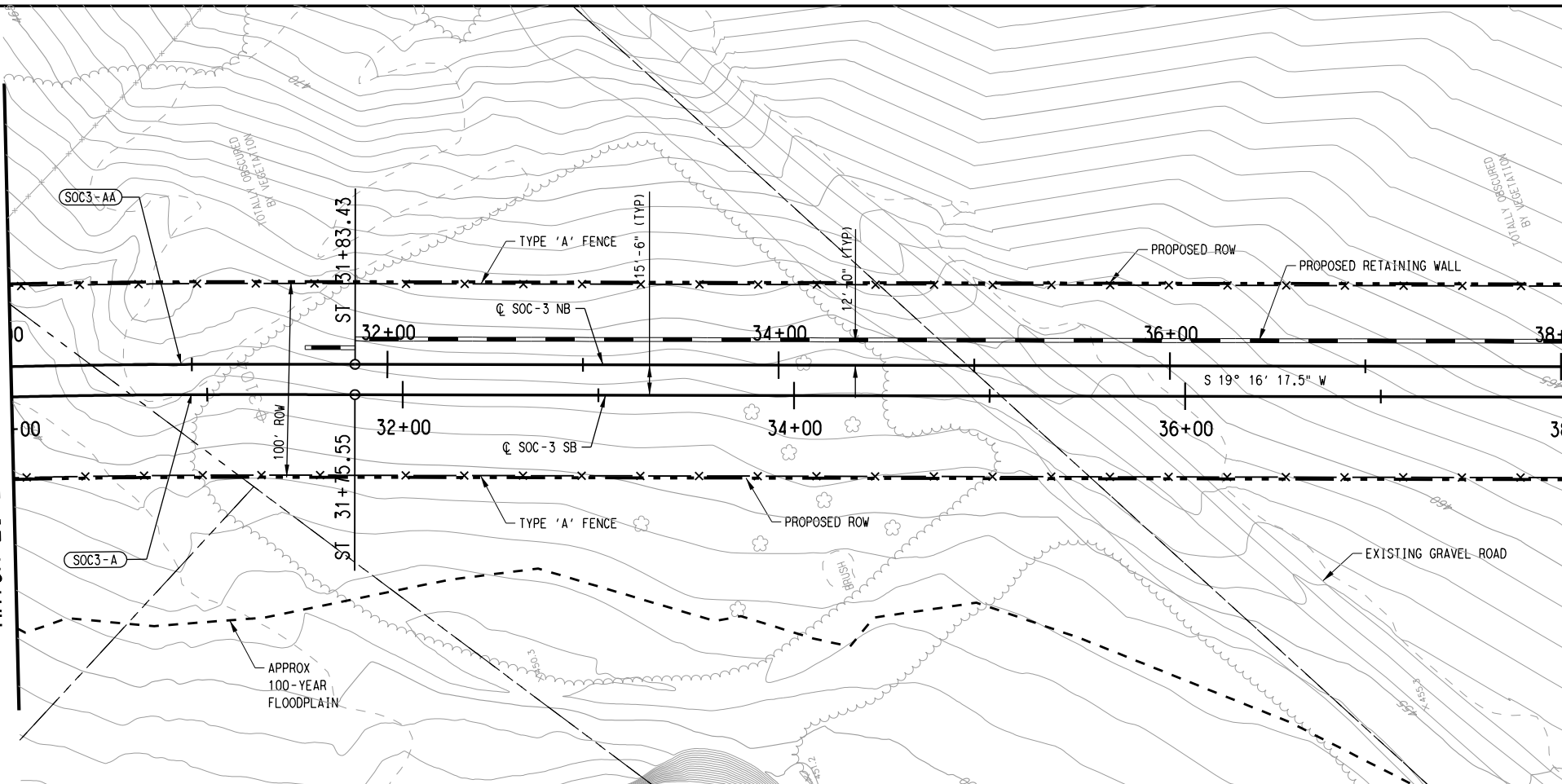
REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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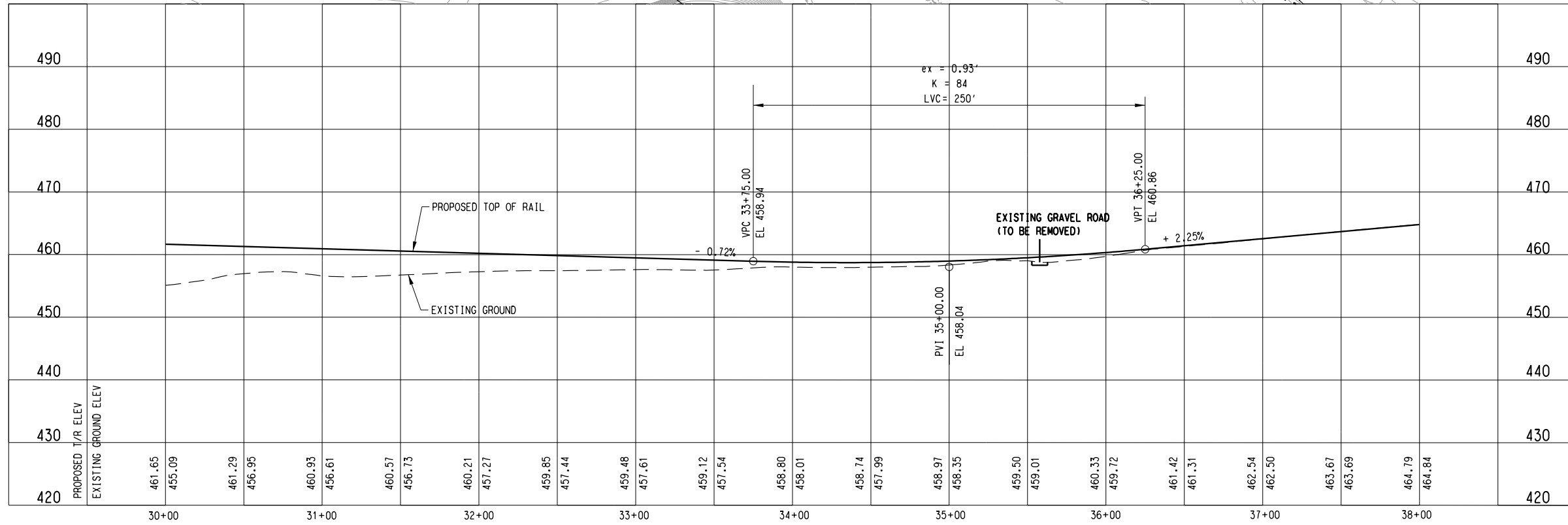
dan_martin_v61 \$\$\$\$\$\$

SEE DWG No. CC1-0003
MATCH LINE SOC-3 SB STA 30+00.00

MATCH LINE SOC-3 SB STA 38+00.00
SEE DWG No. CC1-0005



NOTE:
1. SEE DWG No. CC1-0001 FOR ADDITIONAL NOTES.



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CONTRACT SHEET No. 43 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

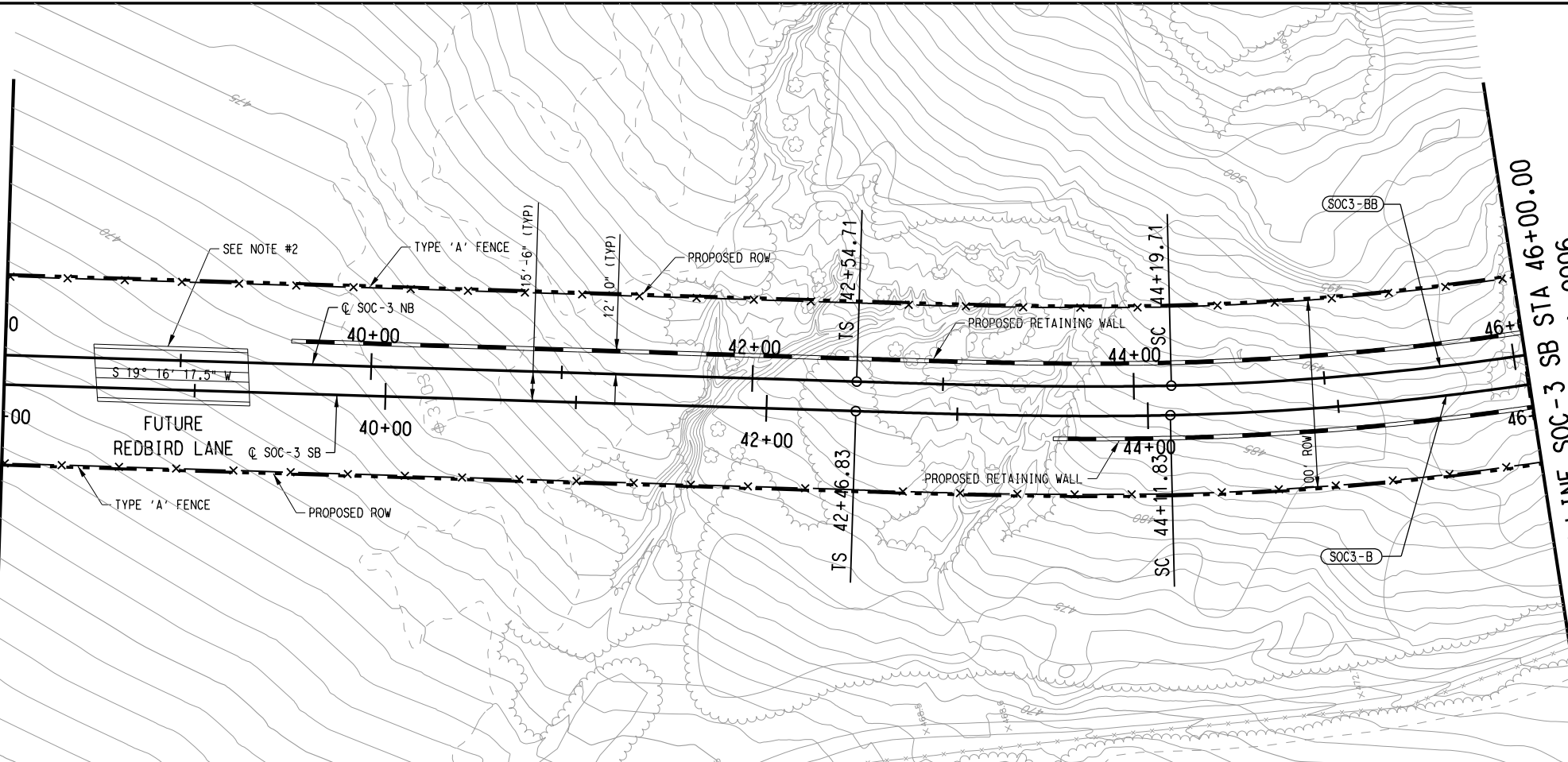
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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

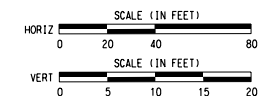
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 30+00.00 TO STA 38+00.00**

CONTRACT DWG No. CC1-0004 REV

SEE DWG No. CC1-0004
MATCH LINE SOC-3 SB STA 38+00.00



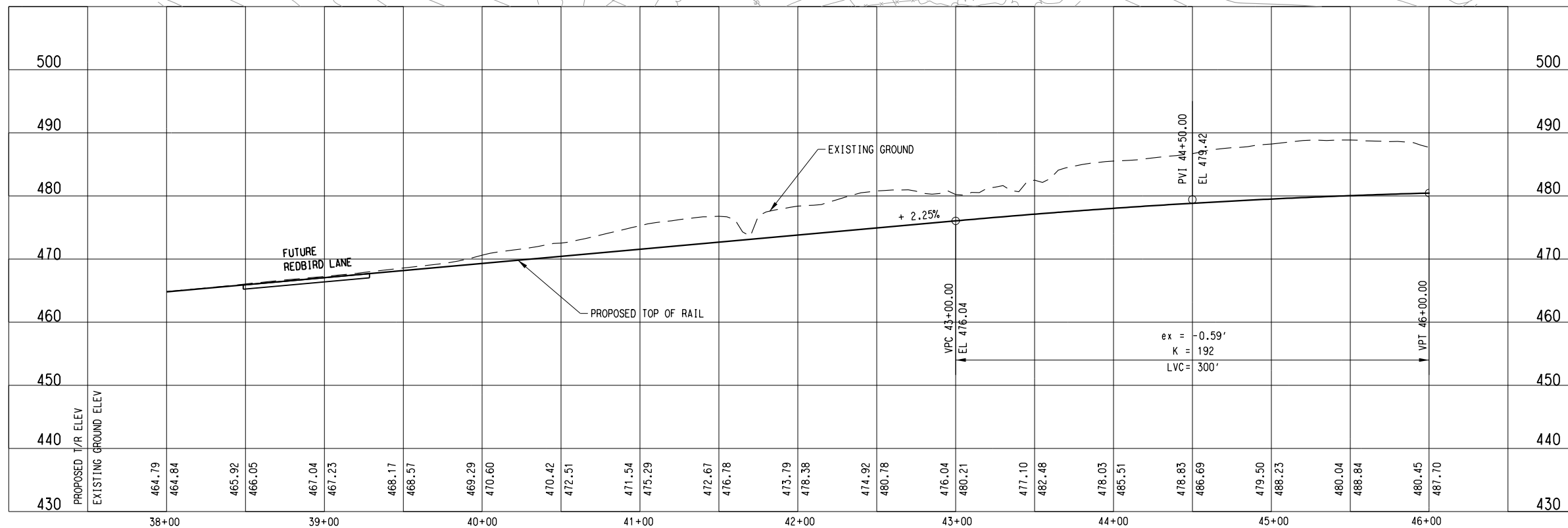
MATCH LINE SOC-3 SB STA 46+00.00
SEE DWG No. CC1-0006



SOC3-B (SB)		SOC3-BB (NB)	
Rc =	1515.50'	Rc =	1500.00'
Ls =	165.00'	Ls =	165.00'
Lc =	938.99'	Lc =	927.70'
Eo =	3.00"	Eo =	3.00"
Eu =	1.23"	Eu =	1.28"
V =	40 MPH	V =	40 MPH

NOTE:

- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
- CONSTRUCT CONCRETE HEADER PER DART HIGHWAY/STREET GRADE CROSSING DETAILS AT FUTURE RED BIRD LANE. FINAL DESIGNER SHALL COORDINATE FURTHER WITH THE CITY OF DALLAS AND DART REGARDING THE FINAL LOCATION OF FUTURE RED BIRD LANE SHOWN ON THIS SHEET IS APPROXIMATE AND CONCEPTUAL.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 44 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

GUIDEWAY PLAN AND PROFILE
STA 38+00.00 TO STA 46+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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CHAD ANTHONY ALLEN, P.E. NO. 88427
ON 09/14/2012

URS CORPORATION TBPE ID #F-3162

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CP&Y
1820 REGAL ROW, SUITE 200
DALLAS, TEXAS 75235
FIRM REG. NO. 1741

URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

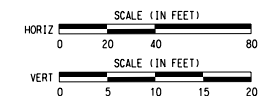
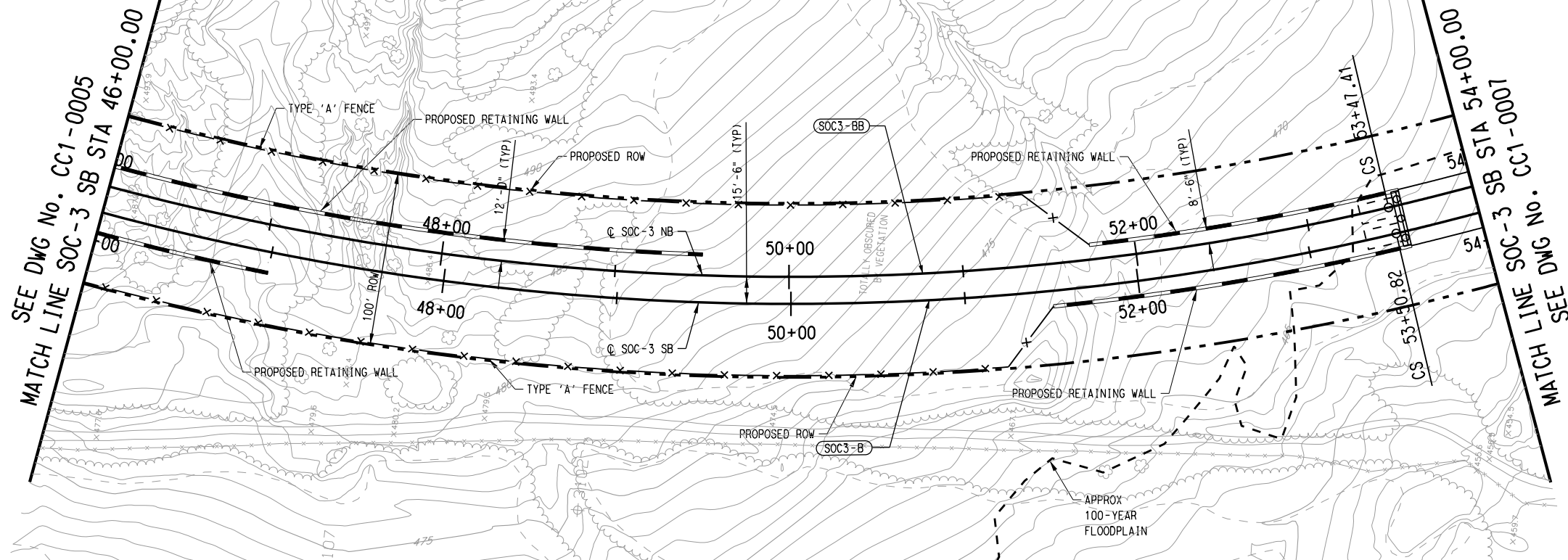
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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

CONTRACT	DWG No.	CC1-0005	REV
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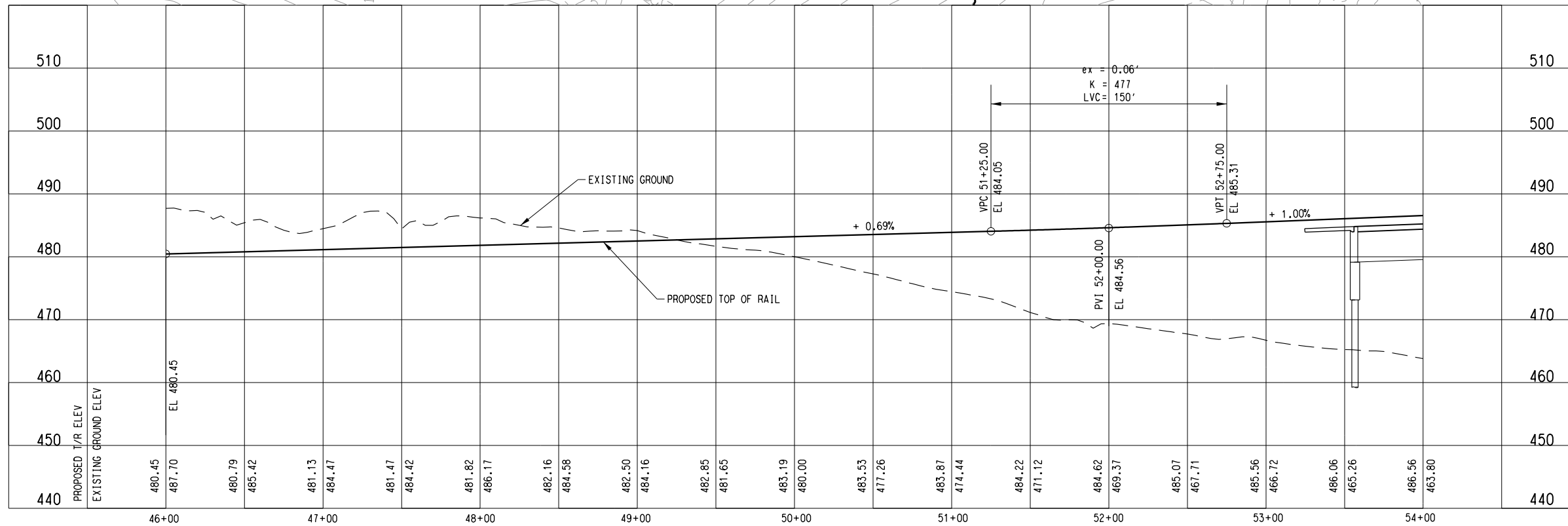
9/11/2012 I:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0005.040

dan_martin_v61 \$5MDEL\$5



SOC3-B (SB)		SOC3-BB (NB)	
Rc =	1515.50'	Rc =	1500.00'
Ls =	165.00'	Ls =	165.00'
Lc =	938.99'	Lc =	927.70'
Ea =	3.00"	Ea =	3.00"
Eu =	1.23"	Eu =	1.28"
V =	40 MPH	V =	40 MPH

NOTE:
1. SEE DWG No. CC1-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 45 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

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DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

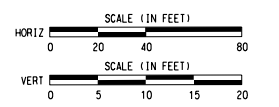
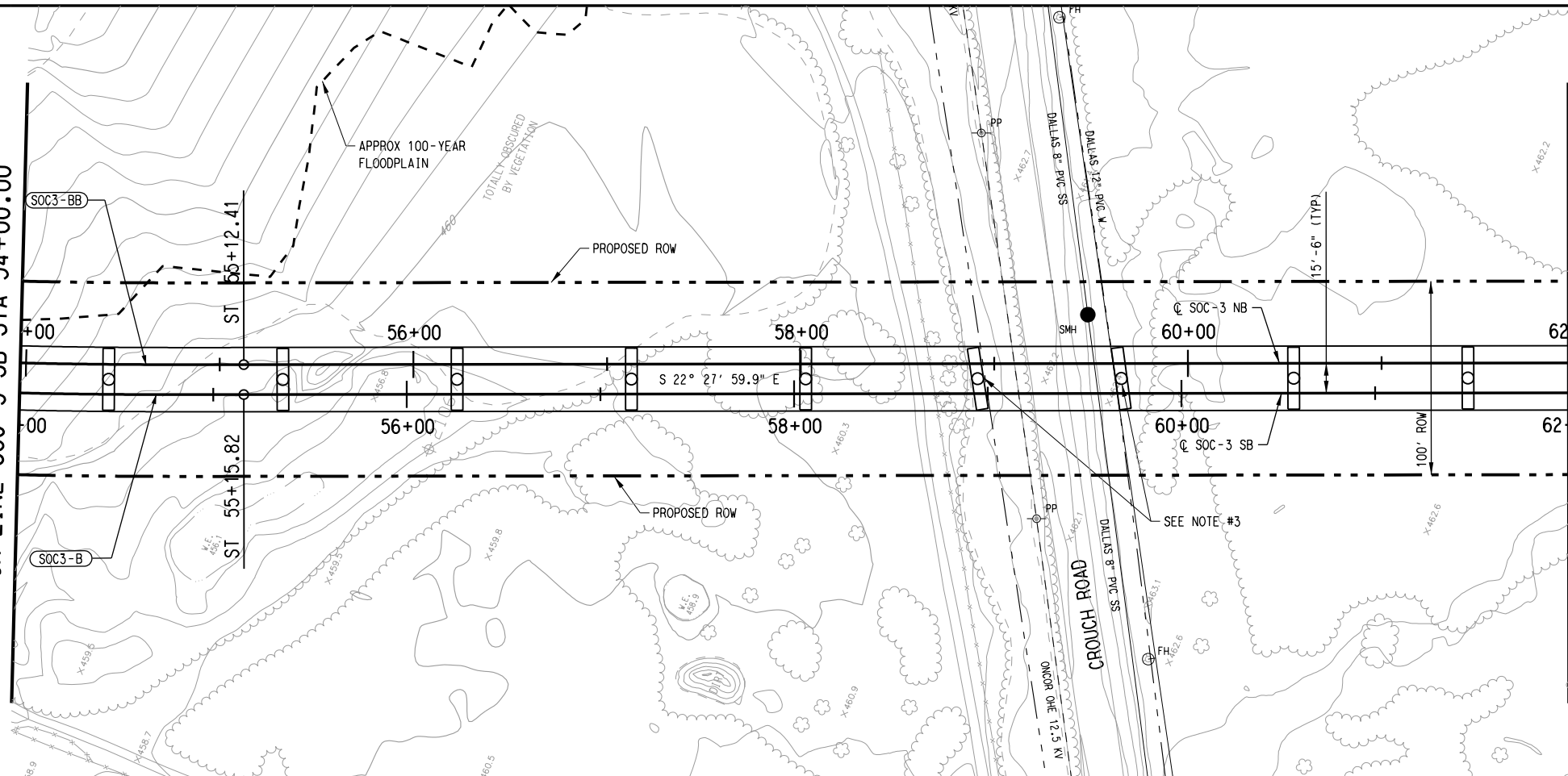
**GUIDEWAY PLAN AND PROFILE
STA 46+00.00 TO STA 54+00.00**

CONTRACT	DWG No.	CC1-0006	REV
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9/11/2012 I:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0006.040

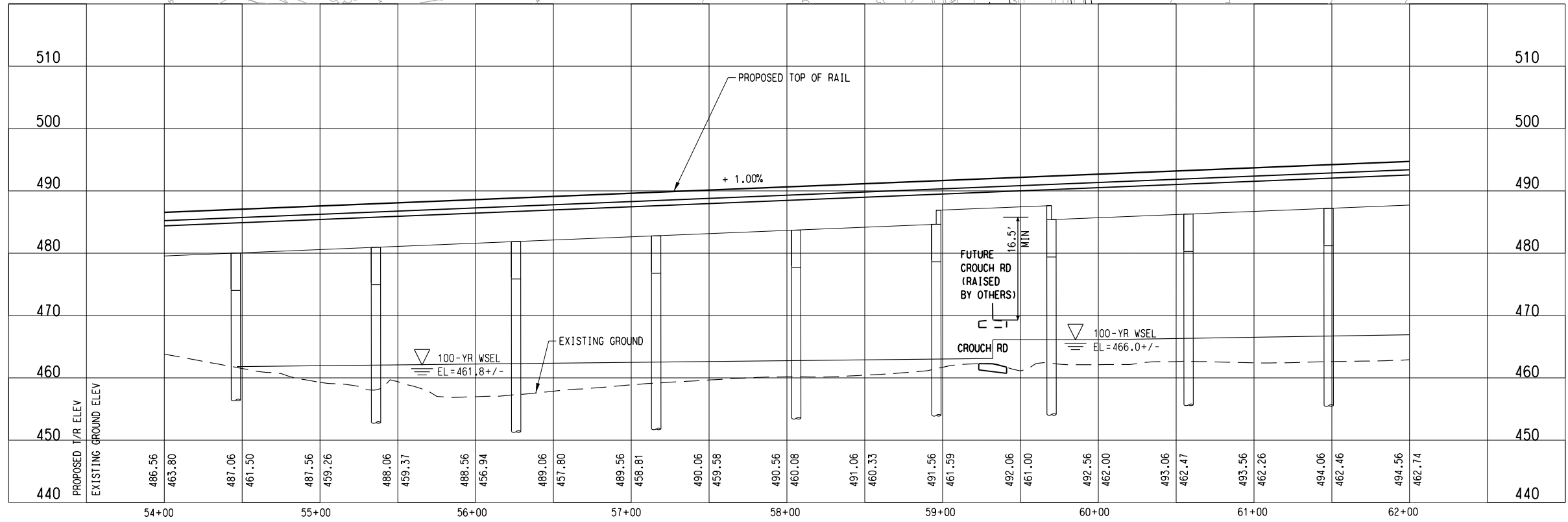
SEE DWG No. CC1-0006
MATCH LINE SOC-3 SB STA 54+00.00

MATCH LINE SOC-3 SB STA 62+00.00
SEE DWG No. CC1-0008



SOC3-B (SB)	SOC3-BB (NB)
Rc = 1515.50'	Rc = 1500.00'
Ls = 165.00'	Ls = 165.00'
Lc = 938.99'	Lc = 927.70'
Ea = 3.00"	Ea = 3.00"
Eu = 1.23"	Eu = 1.28"
V = 40 MPH	V = 40 MPH

- NOTE:
- SEE DWG No. CC1-0001 FOR ADDITIONAL NOTES.
 - FINAL DESIGNER TO COORDINATE WITH CITY OF DALLAS REGARDING FUTURE CROUCH ROAD ALIGNMENT.
 - CRASH PROTECTION MAY BE REQUIRED FOR ROAD ADJACENT TO PROPOSED BRIDGE PIERS. FINAL DESIGNER TO DETERMINE IF CRASH PROTECTION IS REQUIRED PER CITY OF DALLAS CRITERIA.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 46 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 SUITE 6000
 DALLAS, TEXAS 75207
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DART PROJECT

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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 GUIDEWAY PLAN AND PROFILE
 STA 54+00.00 TO STA 62+00.00**

CONTRACT	DWG No.	CC1-0007	REV
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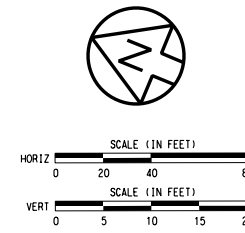
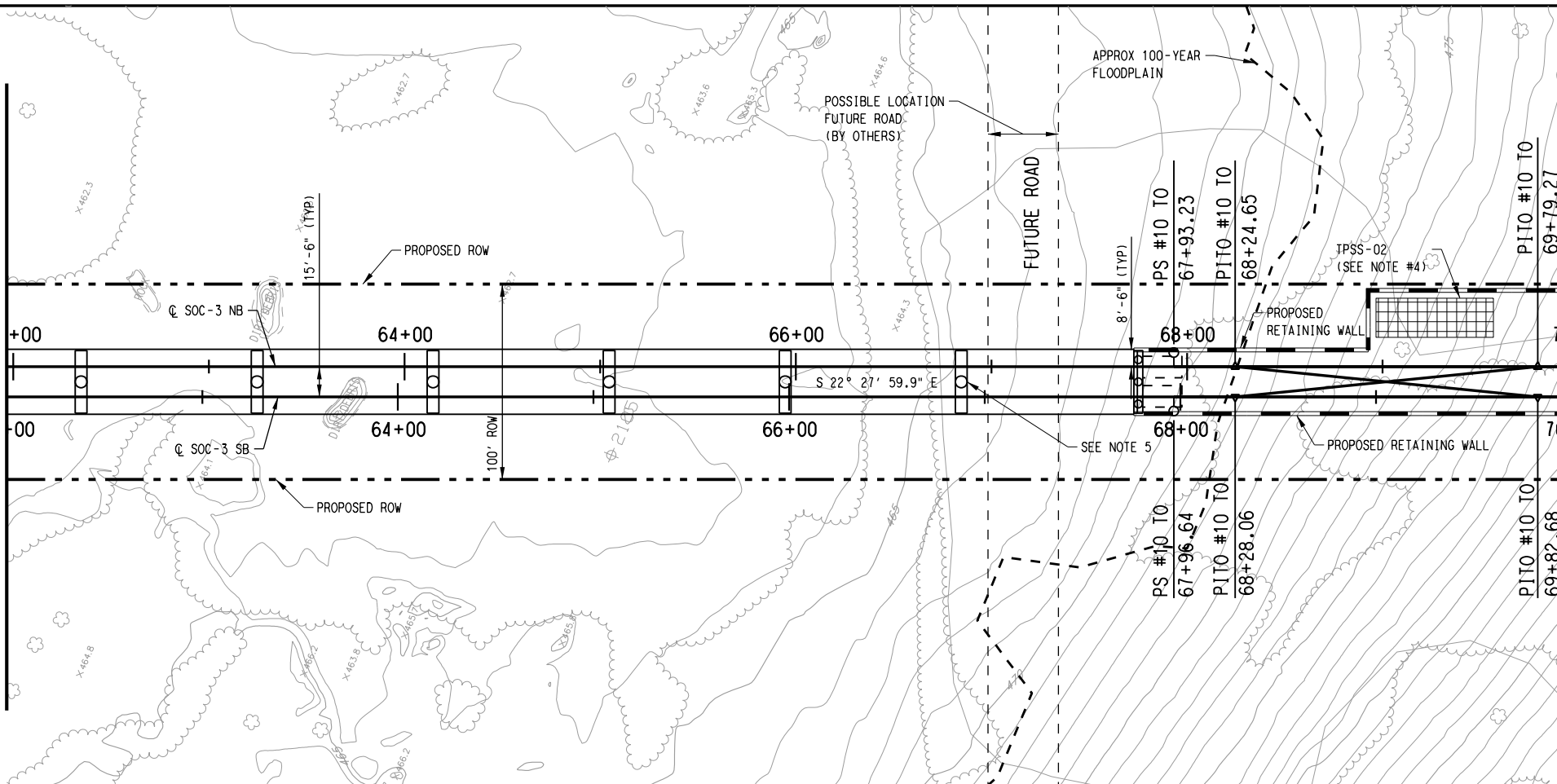
9/11/2012 1:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0007.040

dan_martin_v61
\$\$\$\$MODEL\$\$\$\$

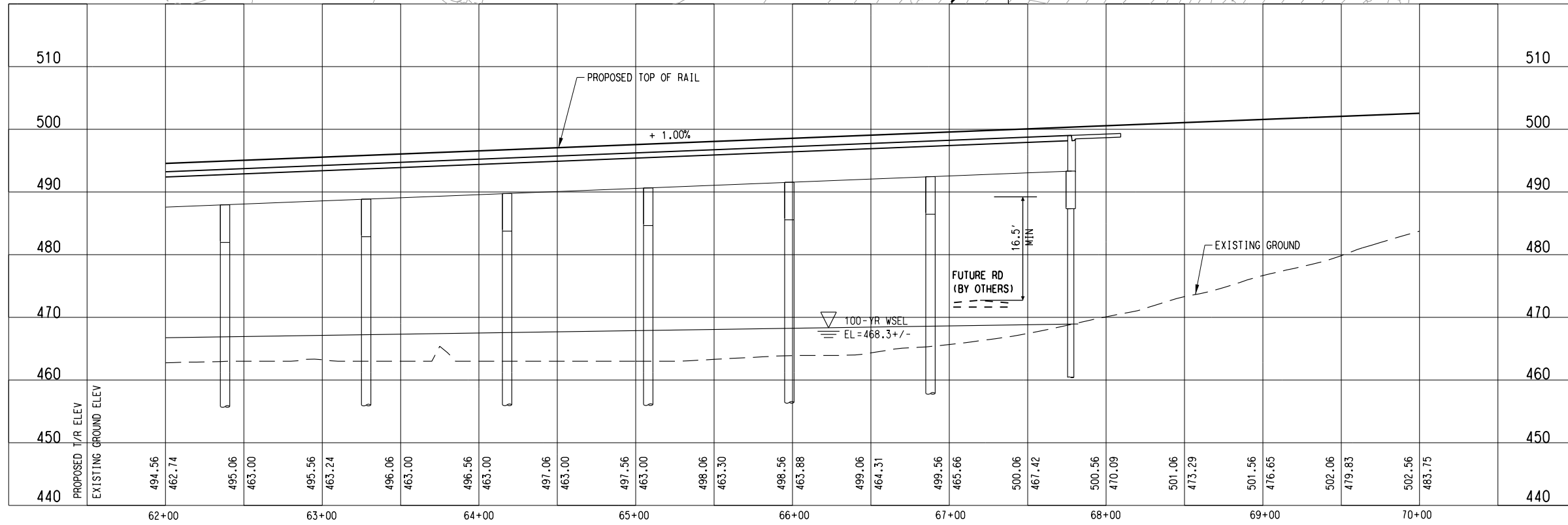
ON 9AD

SEE DWG No. CC1-0007
MATCH LINE SOC-3 SB STA 62+00.00

MATCH LINE SOC-3 SB STA 70+00.00
SEE DWG No. CC1-0009



- NOTE:
- SEE DWG No. CC1-0001 FOR ADDITIONAL NOTES.
 - FINAL DESIGNER SHALL COORDINATE FURTHER WITH THE CITY OF DALLAS AND DART REGARDING THE FINAL LOCATION OF THE FUTURE ROAD BY OTHERS NEAR STATION 67+09. THE LOCATION OF THIS FUTURE ROAD SHOWN ON THIS SHEET IS APPROXIMATE AND CONCEPTUAL.
 - PROPOSED CROSSOVER LOCATIONS SHOWN ARE PRELIMINARY. FINAL DESIGNER SHALL COORDINATE FINAL LOCATIONS WITH DART SYSTEMS ENGINEERING AND INTEGRATION DEPARTMENT.
 - TPSS SIZE AND LOCATION ARE APPROXIMATE. A TRACTION POWER LOAD FLOW ANALYSIS AND A VOLTAGE DROP ANALYSIS HAVE NOT BEEN PERFORMED. THE FINAL SYSTEMS ENGINEERS MUST CONFIRM THE LOCATION AND SIZE OF THE TPSS NECESSARY FOR THIS PROJECT. MEDIUM VOLTAGE UTILITY POWER IS REQUIRED. COORDINATION WITH THE UTILITY PROVIDER MUST OCCUR DURING FINAL DESIGN TO CONFIRM AVAILABILITY OF ELECTRIC SERVICE AND IDENTIFY EQUIPMENT NECESSARY FOR CONNECTION.
 - CRASH PROTECTION MAY BE REQUIRED FOR ROAD ADJACENT TO PROPOSED BRIDGE PIERS. FINAL DESIGNER TO DETERMINE IF CRASH PROTECTION IS REQUIRED PER CITY OF DALLAS CRITERIA.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 47 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

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DESIGNED	C. KESTILA/J. YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 62+00.00 TO STA 70+00.00**

CONTRACT DWG No. CC1-0008 REV

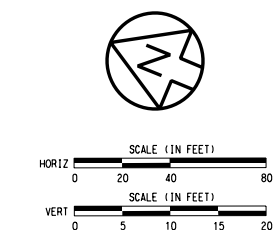
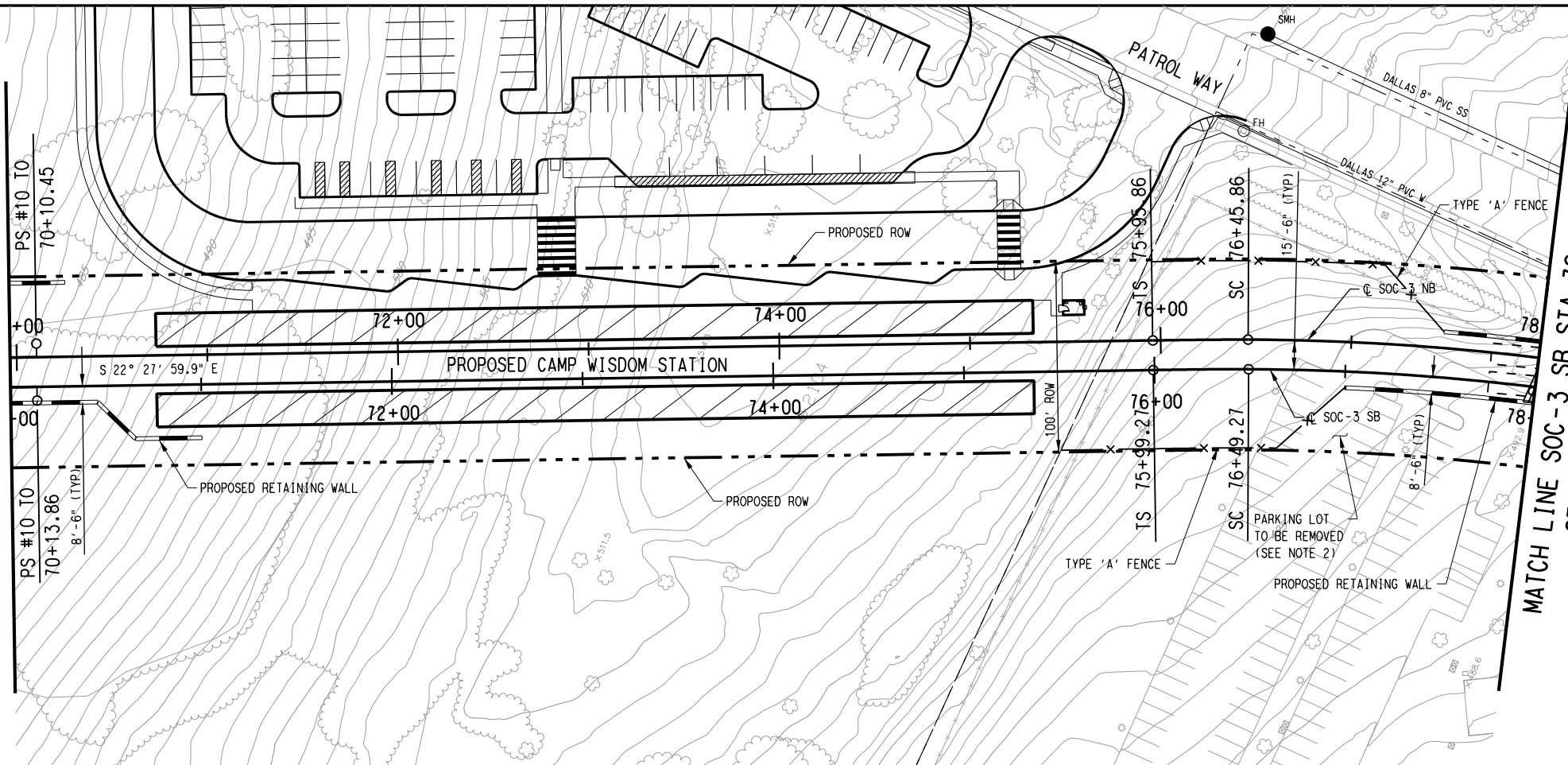
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9/11/2012 1:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DRGN\CVL-AL\SOC3-CC1-0009.040

dan_martin_v61 \$MODEL\$

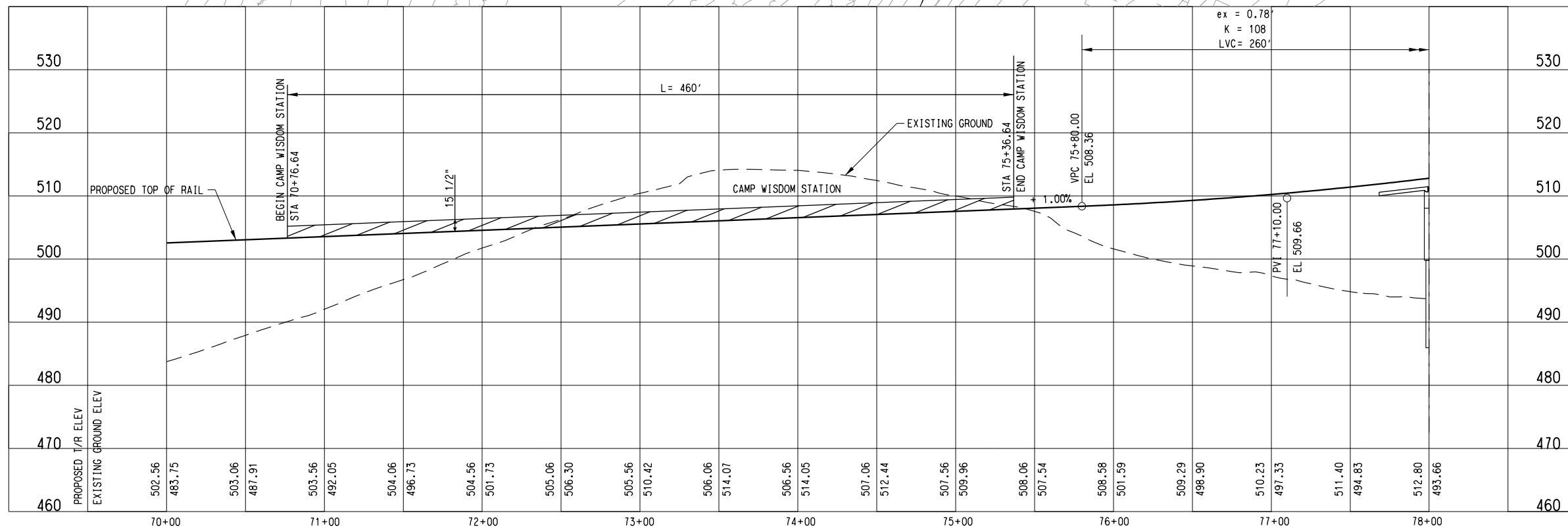
SEE DWG No. CC1-0008
MATCH LINE SOC-3 SB STA 70+00.00

MATCH LINE SOC-3 SB STA 78+00.00
SEE DWG No. CC1-0010



SOC3-C (SB)		SOC3-CC (NB)	
Rc =	1300.00'	Rc =	1315.50'
Ls =	50.00'	Ls =	50.00'
Lc =	700.55'	Lc =	709.50'
Ea =	1.25"	Ea =	1.25"
Eu =	1.53"	Eu =	1.49"
V =	30 MPH	V =	30 MPH

- NOTE:
- SEE DWG No. CC1-0001 FOR ADDITIONAL NOTES.
 - LOSS OF PARKING SPACES AT THE DALLAS POLICE SUBSTATION MUST BE MITIGATED PRIOR TO CONSTRUCTION. FINAL DESIGNER MUST COORDINATE FURTHER WITH THE CITY OF DALLAS AND DART TO DETERMINE THE LOCATION AND CONFIGURATION OF REPLACEMENT PARKING SPACES, DRIVE AISLES AND OTHER SITE IMPROVEMENTS AFFECTED BY THIS PROJECT.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 48 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

GUIDEWAY PLAN AND PROFILE
STA 70+00.00 TO STA 78+00.00

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

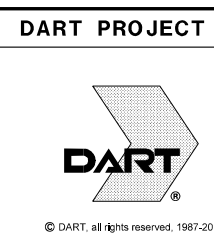
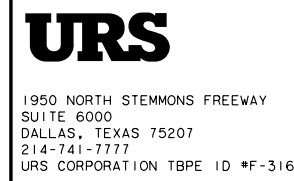
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ON 09/14/2012

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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEP 12

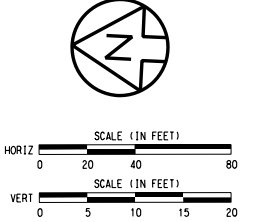
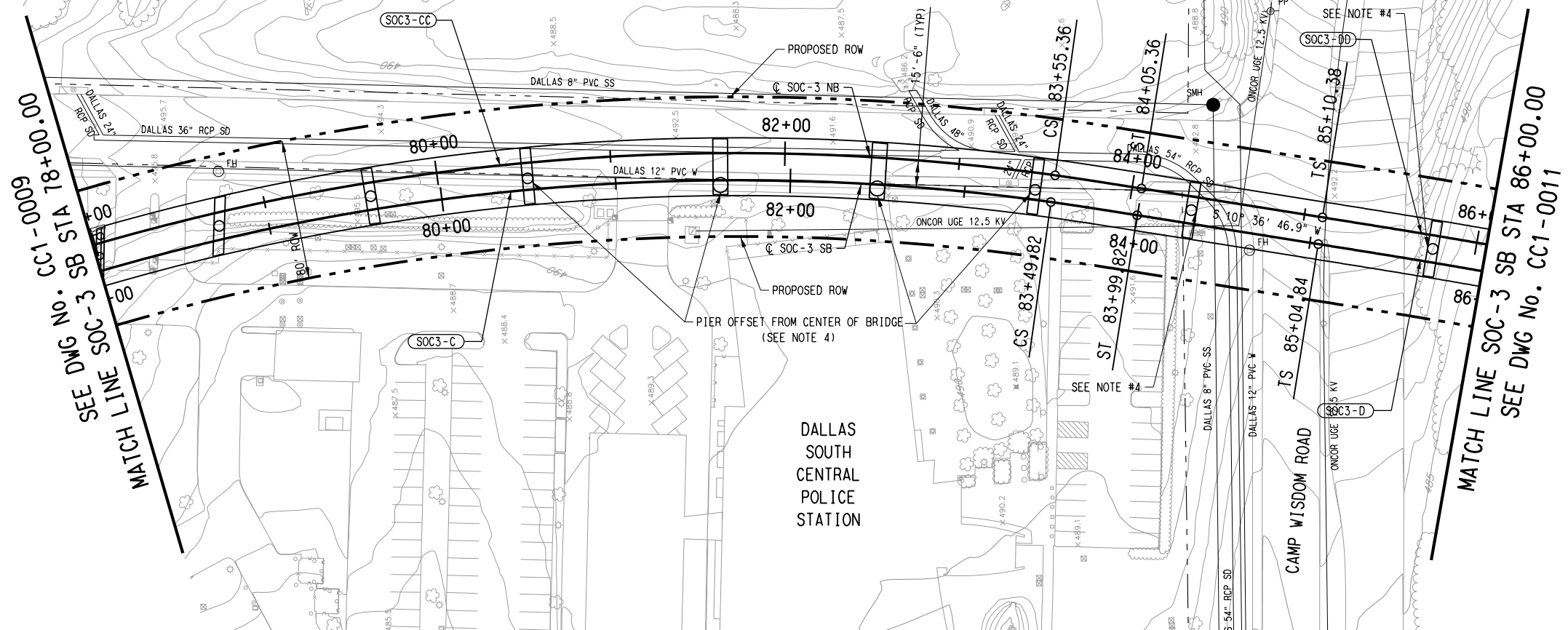
CONTRACT	DWG No.	CC1-0009	REV
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9/11/2012
I:\Projects\1_SOUTH\GPC 5\10 24 SOC-3 PE-EA\DRGN\CVL-AL\SOC3-CC1-0010.040

dan_martin_v61
\$\$\$\$MODEL\$\$\$\$

SEE DWG No. CC1-0009
MATCH LINE SOC-3 SB STA 78+00.00

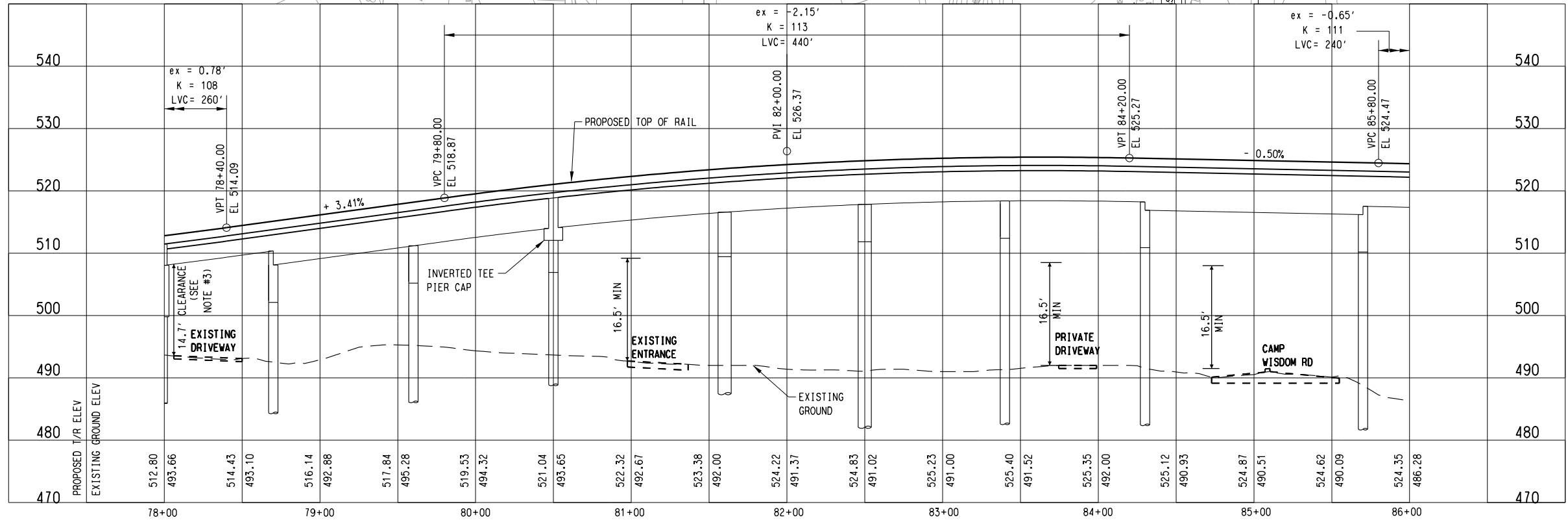
MATCH LINE SOC-3 SB STA 86+00.00
SEE DWG No. CC1-0011



SOC3-D (SB)	SOC3-DD (NB)
Rc = 1700.00'	Rc = 1715.50'
Ls = 165.00'	Ls = 165.00'
Lc = 1134.02'	Lc = 1145.87'
Ea = 3.25"	Ea = 3.25"
Eu = 1.53"	Eu = 1.49"
V = 45 MPH	V = 45 MPH

SOC3-C (SB)	SOC3-CC (NB)
Rc = 1300.00'	Rc = 1315.50'
Ls = 50.00'	Ls = 50.00'
Lc = 700.55'	Lc = 709.50'
Ea = 1.25"	Ea = 1.25"
Eu = 1.53"	Eu = 1.49"
V = 30 MPH	V = 30 MPH

- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - LOSS OF PARKING SPACES AT THE DALLAS POLICE SUBSTATION MUST BE MITIGATED PRIOR TO CONSTRUCTION. FINAL DESIGNER MUST COORDINATE FURTHER WITH THE CITY OF DALLAS AND DART TO DETERMINE THE LOCATION AND CONFIGURATION OF REPLACEMENT PARKING SPACES, DRIVE AISLES AND OTHER SITE IMPROVEMENTS AFFECTED BY THIS PROJECT.
 - MINIMUM REQUIRED VERTICAL CLEARANCE OF 16.5 FEET ACCORDING TO DART DESIGN CRITERIA IS NOT BEING PROVIDED OVER THE NORTHERN DRIVEWAY CONNECTION TO THE DALLAS SOUTH CENTRAL POLICE STATION. A DART DESIGN EXCEPTION WILL BE REQUIRED DURING THE FINAL DESIGN EFFORT IF DART AND THE CITY OF DALLAS AGREE TO LEAVE THE DRIVEWAY OPEN, OR THE DRIVEWAY MAY BE CLOSED AND DEMOLISHED AS PART OF THE PROJECT. IF THE DRIVEWAY IS REMOVED, REPLACEMENT ACCESS MAY NEED TO BE PROVIDED FROM CAMP WISDOM ROAD AT THE WEST SIDE OF THE POLICE STATION PROPERTY. ADDITIONAL COORDINATION WITH THE CITY OF DALLAS AND DART ABOUT THIS ISSUE IS REQUIRED PRIOR TO COMPLETION OF THE FINAL DESIGN PROCESS.
 - CRASH PROTECTION MAY BE REQUIRED FOR ROAD ADJACENT TO PROPOSED BRIDGE PIERS. FINAL DESIGNER TO DETERMINE IF CRASH PROTECTION IS REQUIRED PER CITY OF DALLAS CRITERIA.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 49 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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ON 09/14/2012

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1950 NORTH STEMMONS FREEWAY
SUITE 6000
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214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA/J. YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

CAES

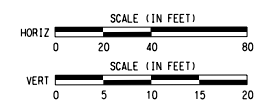
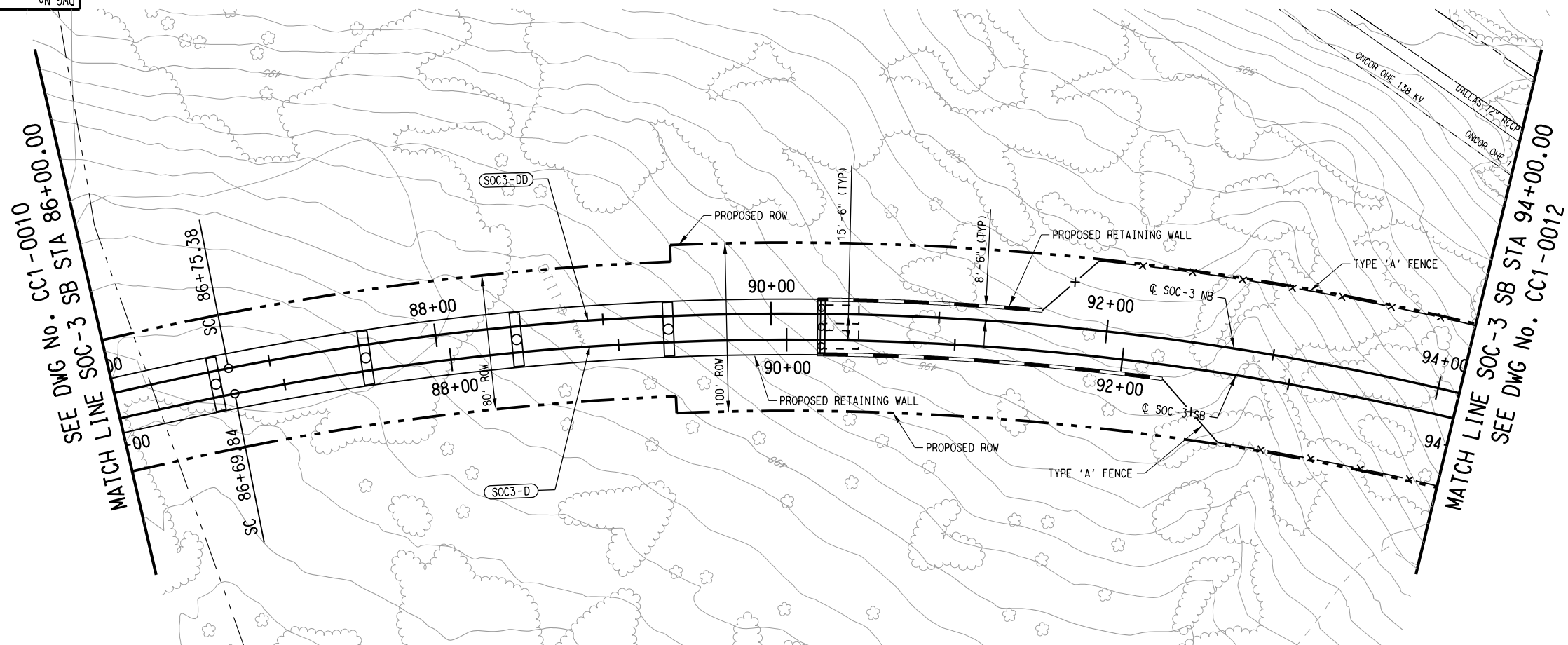
CONTRACT DWG No. CC1-0010 REV

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**GUIDEWAY PLAN AND PROFILE
STA 78+00.00 TO STA 86+00.00**

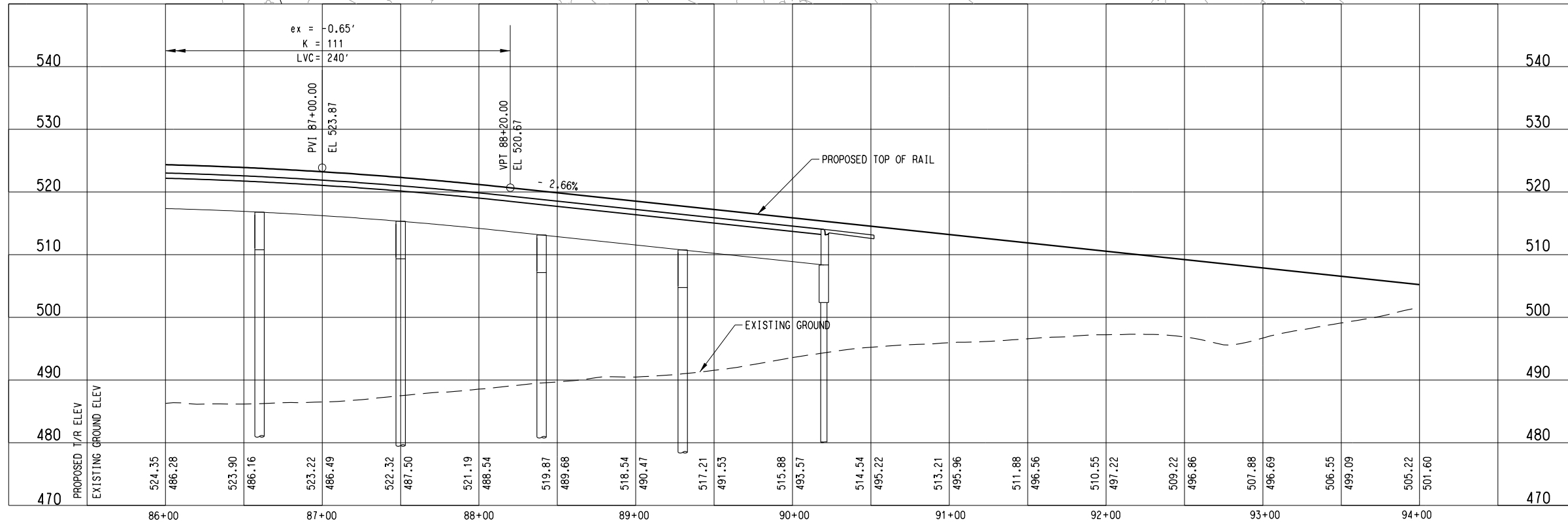
9/11/2012
I:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0011.040

dan_martin_v61
\$\$\$\$MODEL\$\$\$\$



SOC3-D (SB)		SOC3-DD (NB)	
Rc =	1700.00'	Rc =	1715.50'
Ls =	165.00'	Ls =	165.00'
Lc =	1134.02'	Lc =	1145.87'
Eo =	3.25"	Eo =	3.25"
Eu =	1.53"	Eu =	1.49"
V =	45 MPH	V =	45 MPH

NOTE:
1. SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.



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CONTRACT SHEET No. 50 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	C. KESTILAJA, YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

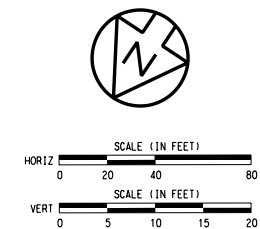
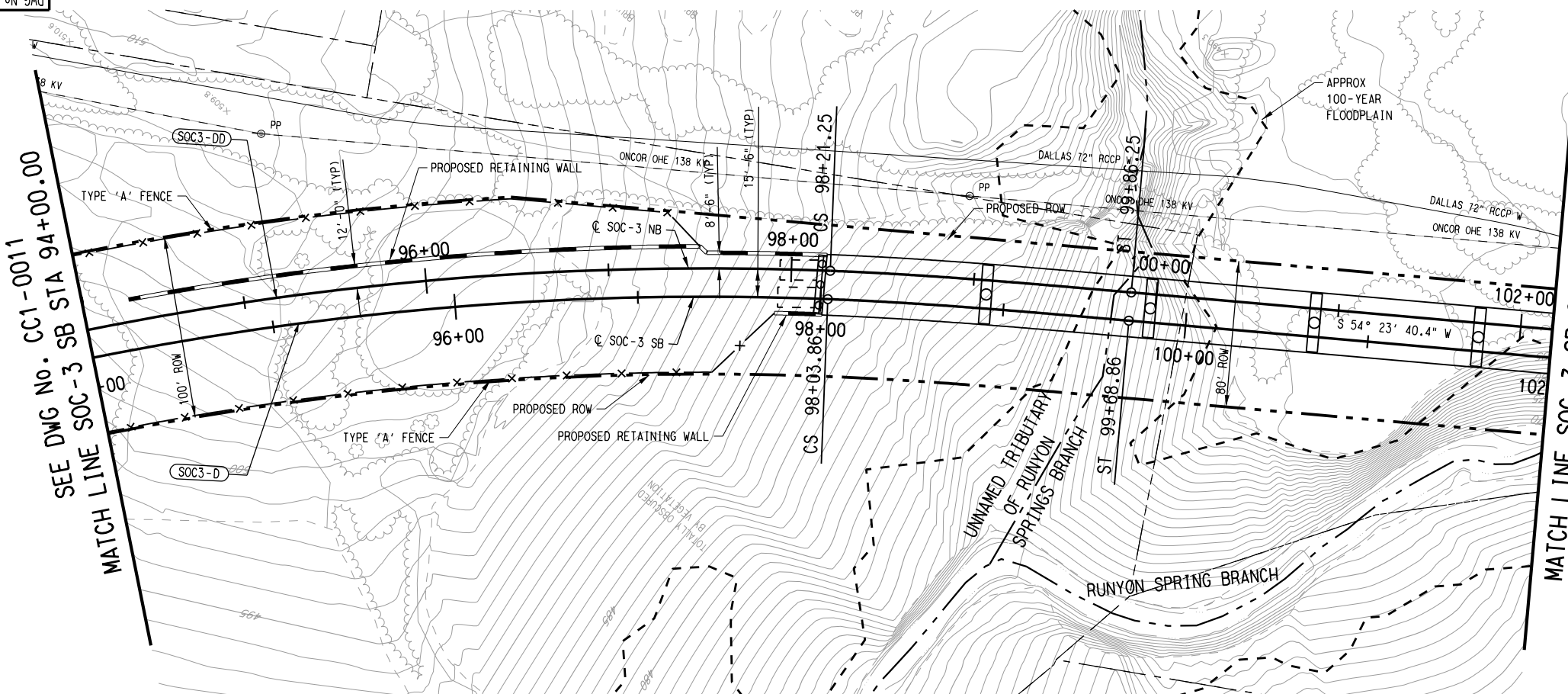
CAES

CONTRACT DWG No. CC1-0011 REV

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 86+00.00 TO STA 94+00.00**

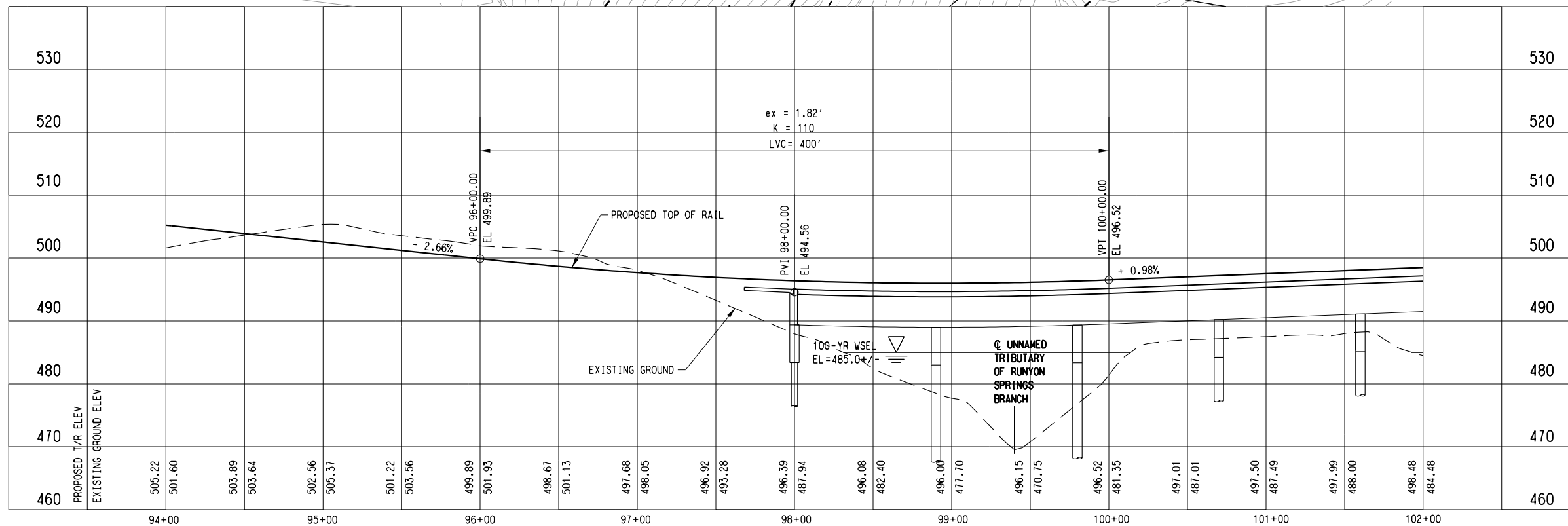
SEE DWG No. CC1-0011
MATCH LINE SOC-3 SB STA 94+00.00

MATCH LINE SOC-3 SB STA 102+00.00
SEE DWG No. CC1-0013



SOC3-D (SB)		SOC3-DD (NB)	
Rc =	1700.00'	Rc =	1715.50'
Ls =	165.00'	Ls =	165.00'
Lc =	1134.02'	Lc =	1145.87'
Ea =	3.25"	Ea =	3.25"
Eu =	1.53"	Eu =	1.49"
V =	45 MPH	V =	45 MPH

- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - THE PROPOSED SOC-3 SOUTHERN ROW LINE BETWEEN STATIONS 96+00 AND 102+70 IS INTENDED TO FALL ON TOP OF THE EXISTING EASEMENT LINE FOR THE ONCOR OVERHEAD TRANSMISSION LINES IN THIS AREA. AN OVERALL ROW WIDTH OF 80-FOOT IS PROPOSED FOR THE RAIL IN THIS LOCATION WITH THE RAIL OFFSET TOWARD THE SOUTHERN HALF OF THE ROW DUE TO SPACE RESTRICTIONS CAUSED BY THE TRANSMISSION LINES AND THE ADJACENT CREEKS.
 - THE POSITION OF THE ONCOR TRANSMISSION LINE TOWERS ADJACENT TO THE PROJECT BETWEEN STATIONS 95+00 AND 104+00 HAVE BEEN LOCATED IN THE FIELD WITH ON-THE-GROUND SURVEY. THE LOW WIRE ELEVATION BETWEEN THE TWO TOWERS NEAR STATION 104+50 HAS ALSO BEEN DETERMINED WITH FIELD SURVEY.



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CONTRACT SHEET No. 51 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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ON 09/14/2012

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URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

SCALE AS SHOWN
 DRAWN D. KING
 DESIGNED C. KESTILAJA, YEOW
 CHECKED C. ALLEN
 IN CHARGE P. ZHAO
 DATE 14 SEPT 12

DART

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**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

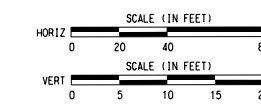
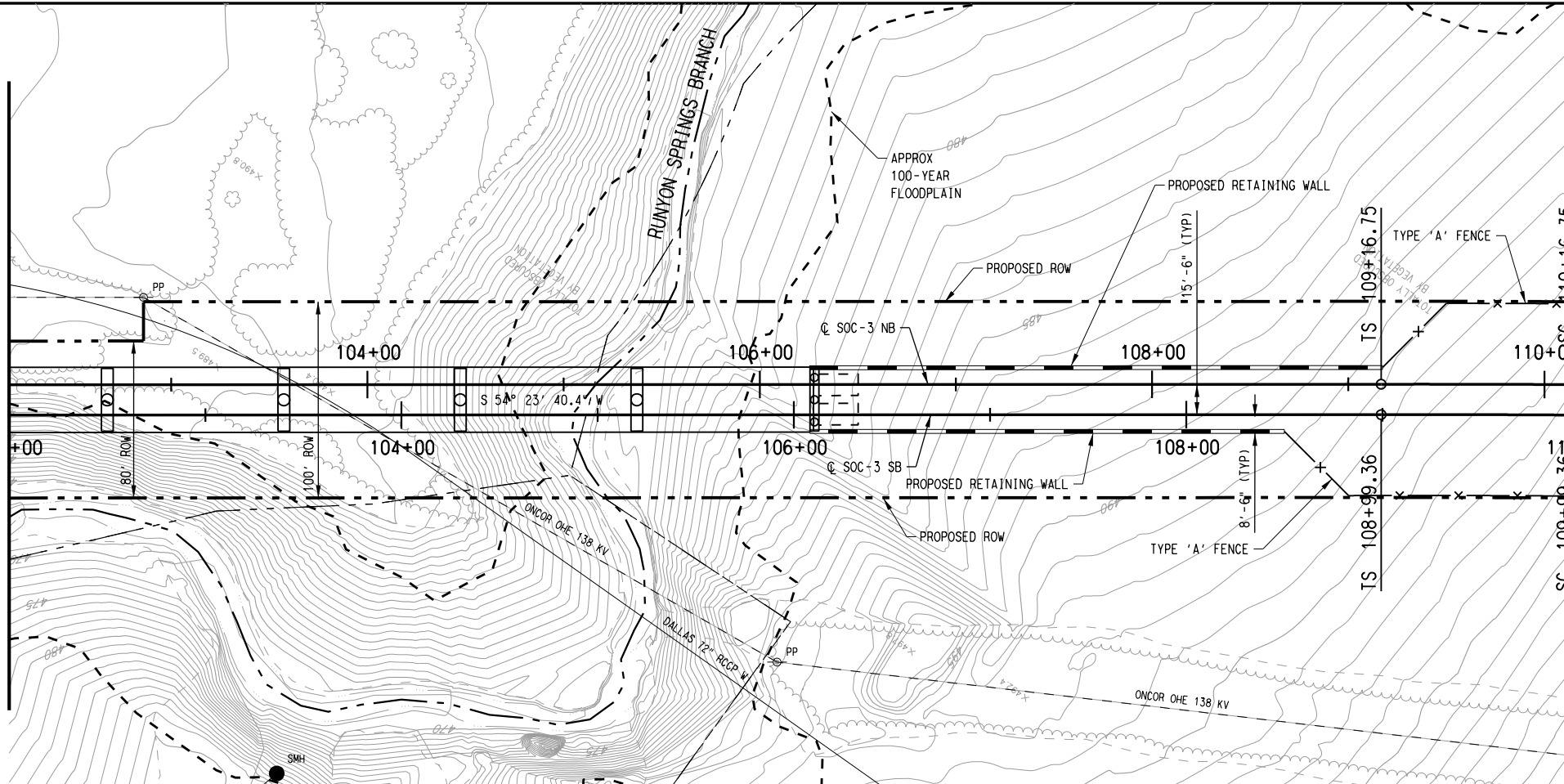
**GUIDEWAY PLAN AND PROFILE
STA 94+00.00 TO STA 102+00.00**

CONTRACT DWG No. CC1-0012 REV

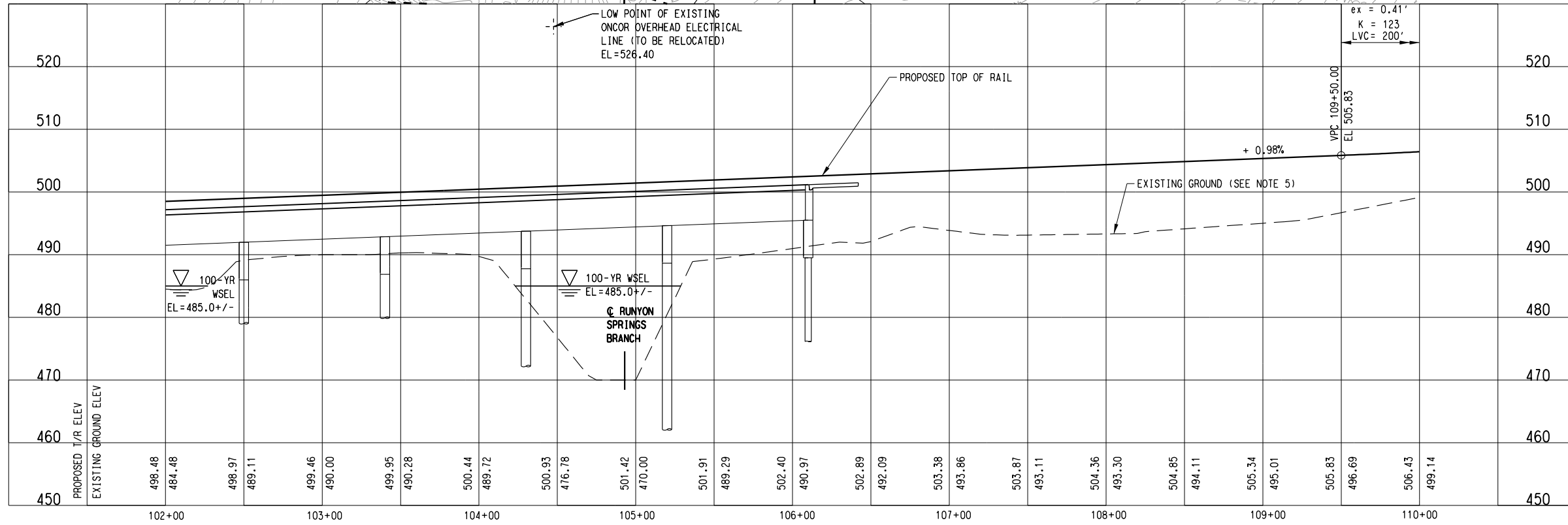
9/11/2012 I:\Projects\1_SOUTH\GPC 5\10 24 SOC-3 PE-EA\DN\CVL-AL\SOC3-CC1-0012.040

SEE DWG No. CC1-0012
MATCH LINE SOC-3 SB STA 102+00.00

MATCH LINE SOC-3 SB STA 110+00.00
SEE DWG No. CC1-0014



- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - THE PROPOSED SOC-3 SOUTHERN ROW LINE BETWEEN STATIONS 96+00 AND 102+70 IS INTENDED TO FALL ON TOP OF THE EXISTING EASEMENT LINE FOR THE ONCOR OVERHEAD TRANSMISSION LINES IN THIS AREA. AN OVERALL ROW WIDTH OF 80-FOOT IS PROPOSED FOR THE RAIL IN THIS LOCATION WITH THE RAIL OFFSET TOWARD THE SOUTHERN HALF OF THE ROW DUE TO SPACE RESTRICTIONS CAUSED BY THE TRANSMISSION LINES AND THE ADJACENT CREEKS.
 - THE POSITION OF THE ONCOR TRANSMISSION LINE TOWERS ADJACENT TO THE PROJECT BETWEEN STATIONS 95+00 AND 110+00 HAVE BEEN LOCATED IN THE FIELD WITH ON-THE-GROUND SURVEY. THE LOW WIRE ELEVATION BETWEEN THE TWO TOWERS NEAR STATION 105+00 HAS ALSO BEEN DETERMINED WITH FIELD SURVEY.
 - FINAL DESIGNER TO COORDINATE WITH ONCOR FOR RELOCATION OF EXISTING OVERHEAD ELECTRICAL POLES AND TRANSMISSION LINES.
 - THE AREA SHOWN IN PLAN BETWEEN STATIONS 104+06 AND 114+43 WAS DETERMINED TO BE TOTALLY OBSCURED BY VEGETATION DURING THE PROJECT AERIAL MAPPING EFFORT. THE ELEVATION CONTOURS IN PLAN HAVE BEEN INTERPOLATED BETWEEN POINTS ACROSS THE OBSCURED AREA AND ARE NOT CONSIDERED TO BE RELIABLE FOR DESIGN PURPOSES. PRIOR TO CREATION OF THESE DRAWINGS, ON-THE-GROUND SURVEY WAS PERFORMED ALONG THE ALIGNMENT BETWEEN STATIONS 106+11 AND 116+00 TO SUPPLEMENT THE AERIAL DATA. THE EXISTING GROUND ELEVATION IN PROFILE REFLECTS THE NEW SURVEY DATA BETWEEN THESE STATIONS.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 52 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 102+00.00 TO STA 110+00.00

IN-PROGRESS

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ON 09/14/2012
URS CORPORATION TBPE ID #F-3162
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DART PROJECT



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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

CONTRACT	DWG No.	CC1-0013	REV
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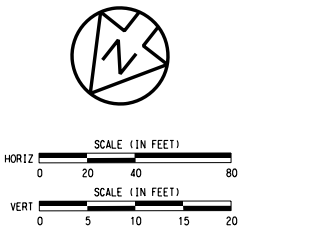
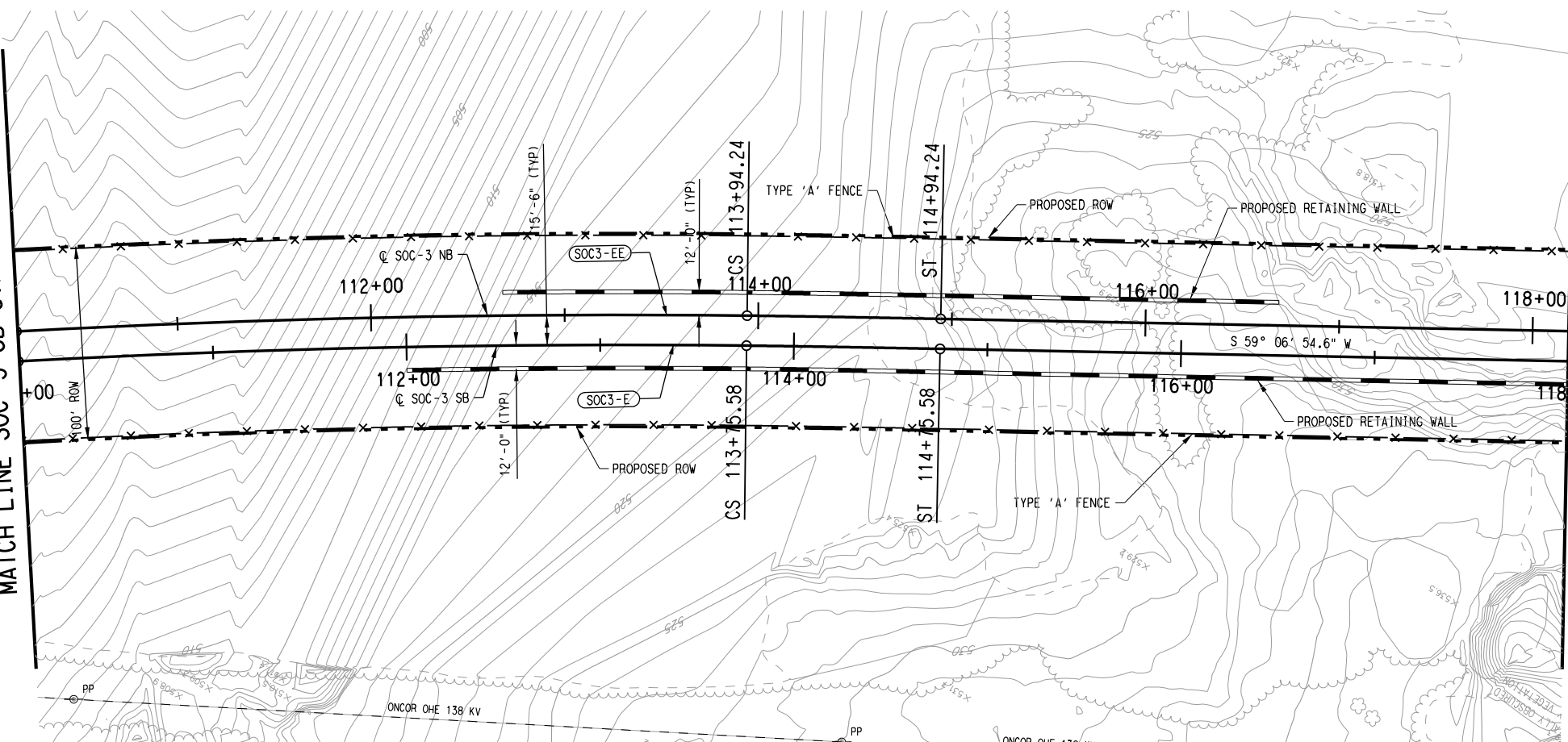
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dan_martin_v61 \$5MODEL\$5

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

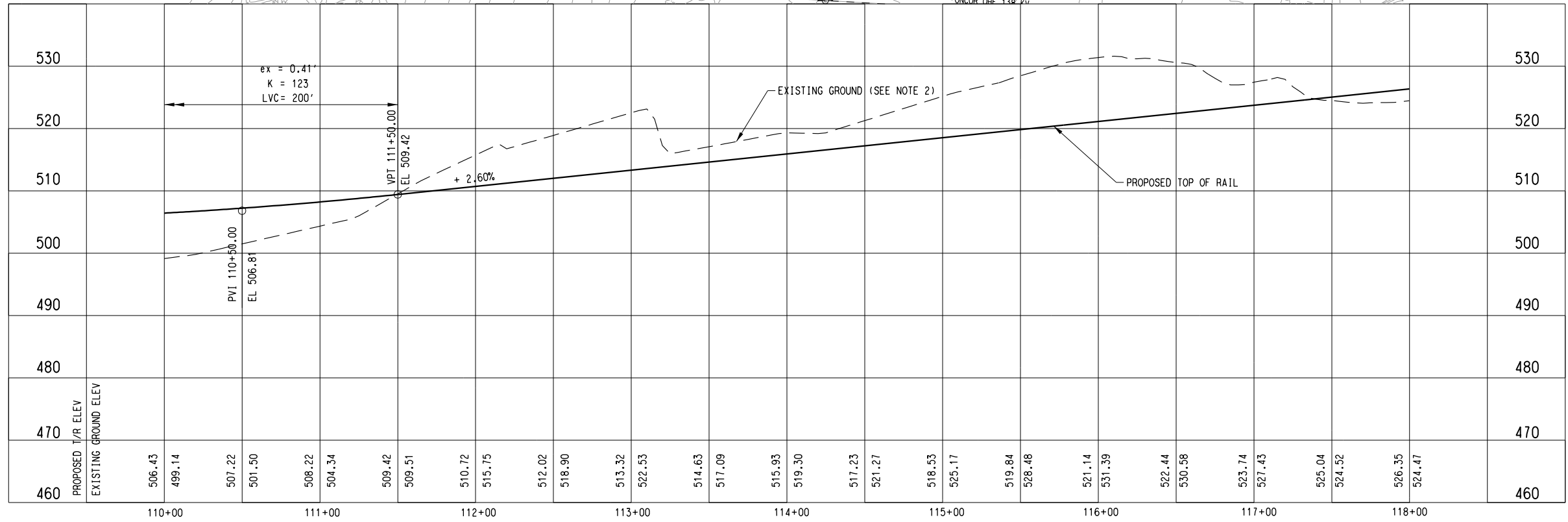
SEE DWG No. CC1-0013
MATCH LINE SOC-3 SB STA 110+00.00

MATCH LINE SOC-3 SB STA 118+00.00
SEE DWG No. CC1-0015



SOC3-E (SB)		SOC3-EE (NB)	
Rc =	5780.00'	Rc =	5795.50'
Ls =	100.00'	Ls =	100.00'
Lc =	376.22'	Lc =	377.49'
Ea =	1.50"	Ea =	1.50"
Eu =	1.43"	Eu =	1.42"
V =	65 MPH	V =	65 MPH

- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - THE AREA SHOWN IN PLAN BETWEEN STATIONS 104+06 AND 114+43 WAS DETERMINED TO BE TOTALLY OBSCURED BY VEGETATION DURING THE PROJECT AERIAL MAPPING EFFORT. THE ELEVATION CONTOURS IN PLAN HAVE BEEN INTERPOLATED BETWEEN POINTS ACROSS THE OBSCURED AREA AND ARE NOT CONSIDERED TO BE RELIABLE FOR DESIGN PURPOSES. PRIOR TO CREATION OF THESE DRAWINGS, ON-THE-GROUND SURVEY WAS PERFORMED ALONG THE ALIGNMENT BETWEEN STATIONS 106+11 AND 116+00 TO SUPPLEMENT THE AERIAL DATA. THE EXISTING GROUND ELEVATION IN PROFILE REFLECTS THE NEW SURVEY DATA BETWEEN THESE STATIONS.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 53 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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FIRM REG. NO. 1741

URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

DART

SCALE AS SHOWN
DRAWN D. KING
DESIGNED C. KESTILA/J. YEOW
CHECKED C. ALLEN
IN CHARGE P. ZHAO
DATE 14 SEPT 12

CAES

CONTRACT DWG No. CC1-0014

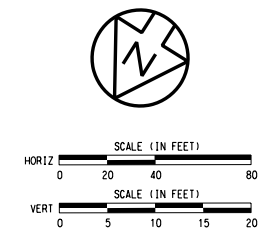
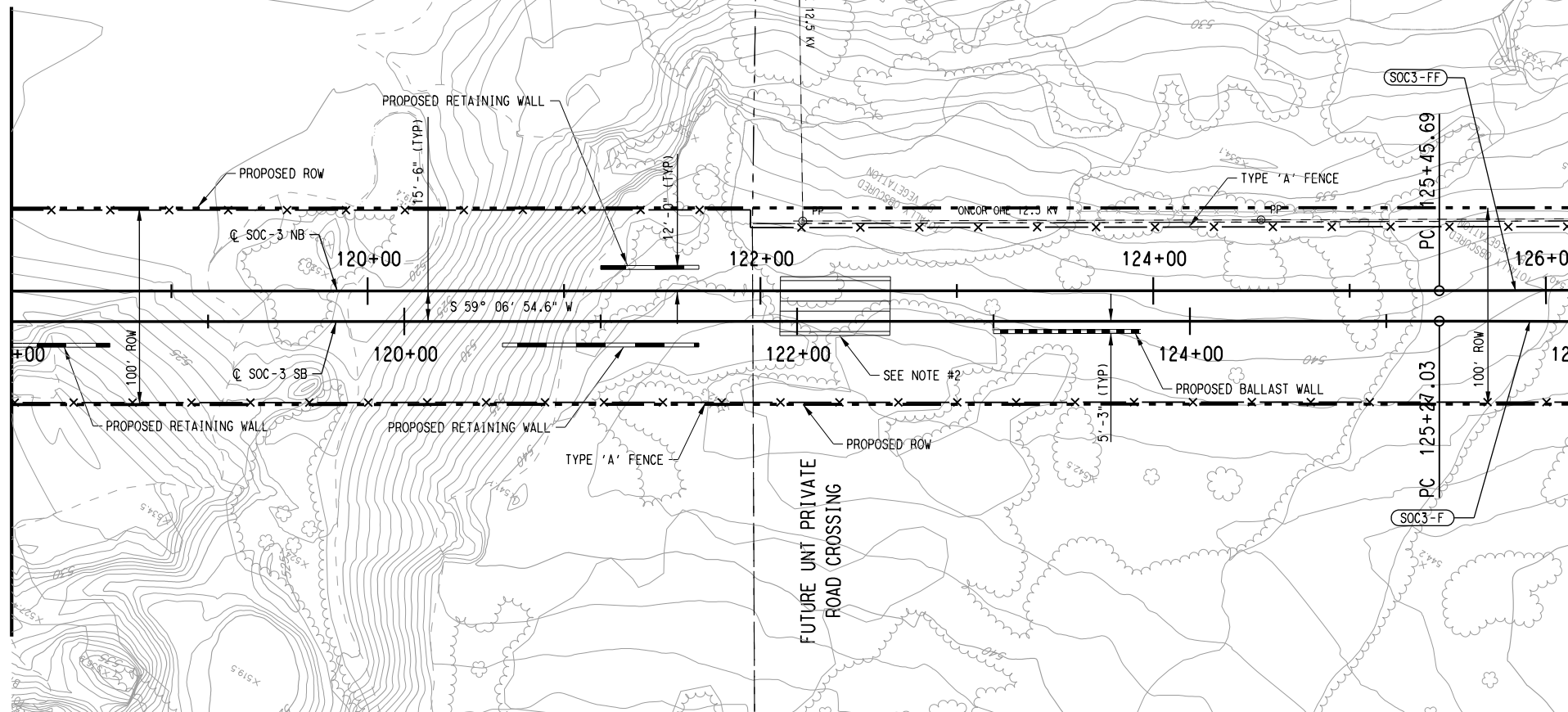
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 110+00.00 TO STA 118+00.00**

CONTRACT DWG No. CC1-0014

*ON SHD

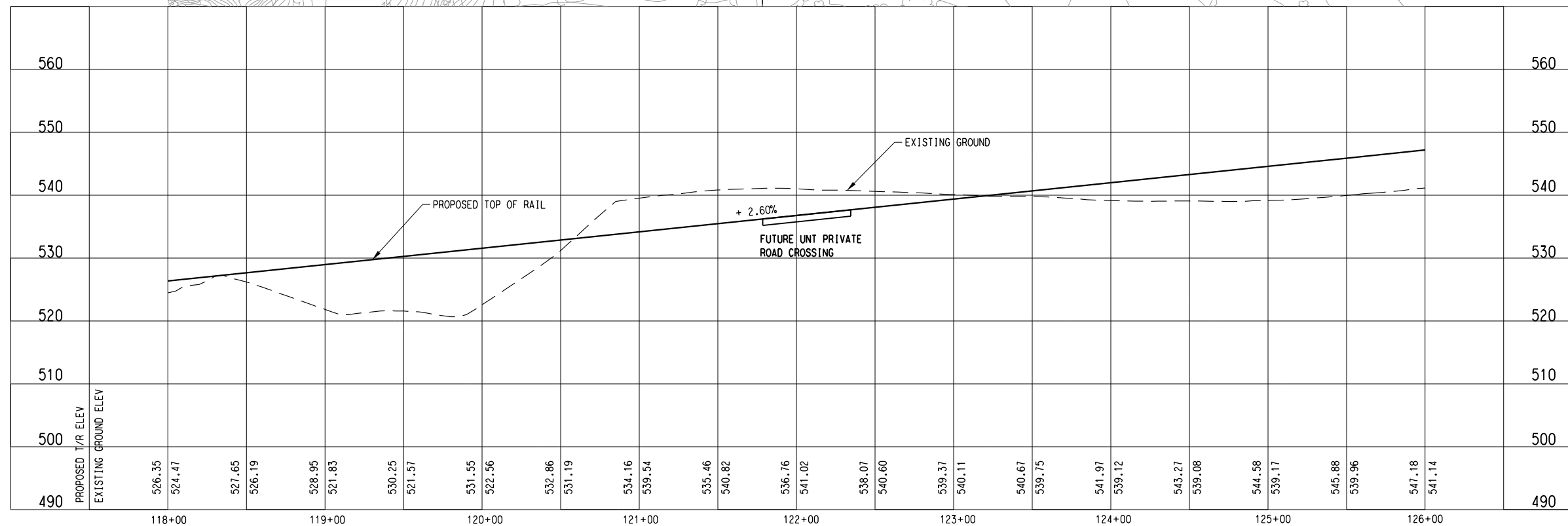
SEE DWG No. CC1-0014
MATCH LINE SOC-3 SB STA 118+00.00

MATCH LINE SOC-3 SB STA 126+00.00
SEE DWG No. CC1-0016



SOC3-F (SB)	SOC3-FF (NB)
Rc = 10000.00'	Rc = 10000.00'
Ls = 0.00'	Ls = 0.00'
Lc = 227.74'	Lc = 227.74'
Ea = 0.75"	Ea = 0.75"
Eu = 0.94"	Eu = 0.94"
V = 65 MPH	V = 65 MPH

- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - CONSTRUCT CONCRETE HEADER PER DART HIGHWAY/STREET GRADE CROSSING DETAILS AT FUTURE UNT PRIVATE ROAD CROSSING. FINAL DESIGNER SHALL COORDINATE WITH UNT DALLAS AND DART REGARDING THE FINAL LOCATION OF THE FUTURE PRIVATE ROAD CROSSING NEAR STATION 122+06. THE LOCATION OF THE PRIVATE ROAD CROSSING SHOWN ON THIS SHEET IS APPROXIMATE AND CONCEPTUAL.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 54 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DALLAS, TEXAS 75207
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URS CORPORATION TBPE ID #F-3162

DART PROJECT

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DRAWN	D. KING
DESIGNED	C. KESTILAJA, YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

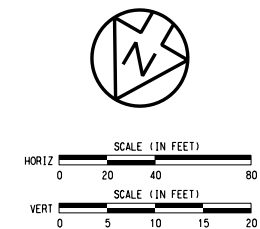
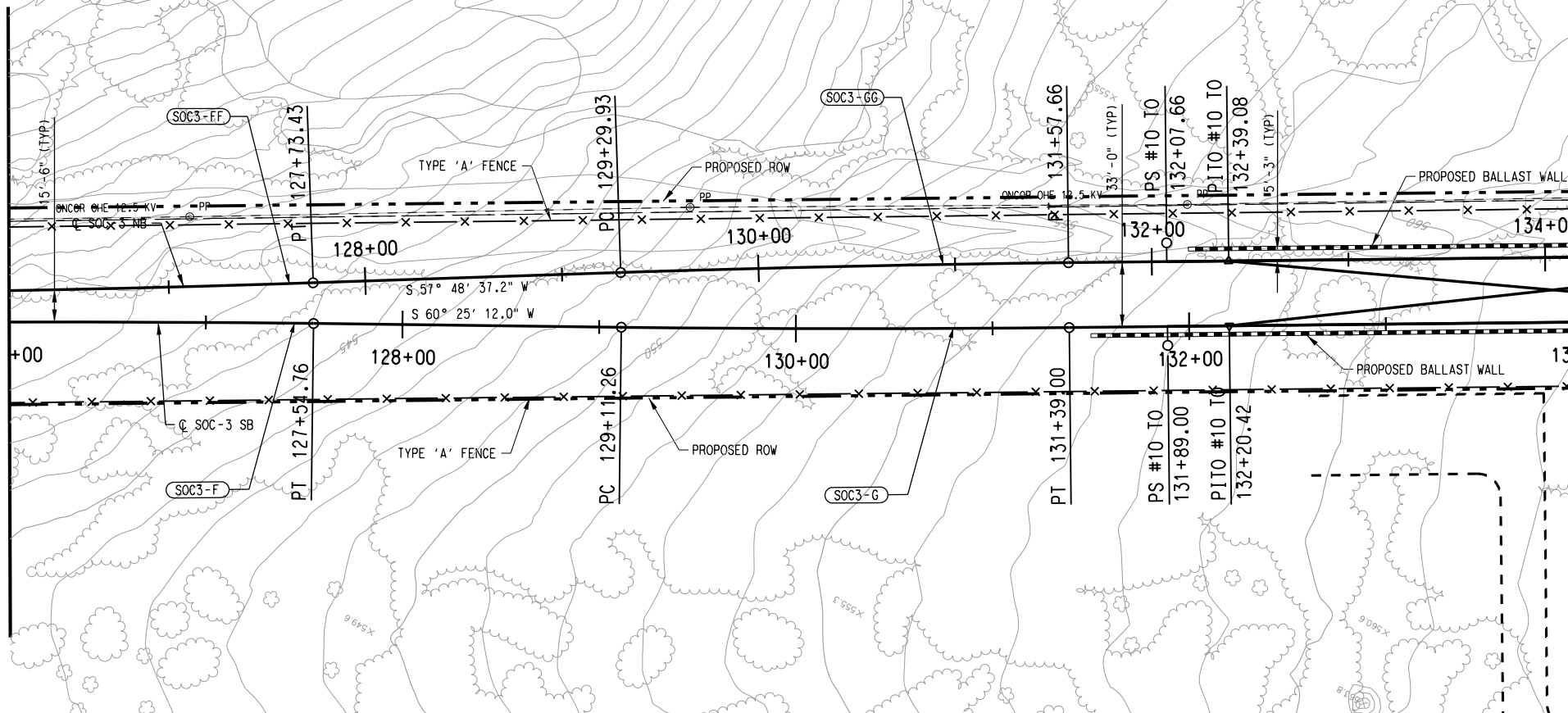
CAES

CONTRACT DWG No. CC1-0015 REV

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 118+00.00 TO STA 126+00.00

SEE DWG No. CC1-0015
MATCH LINE SOC-3 SB STA 126+00.00

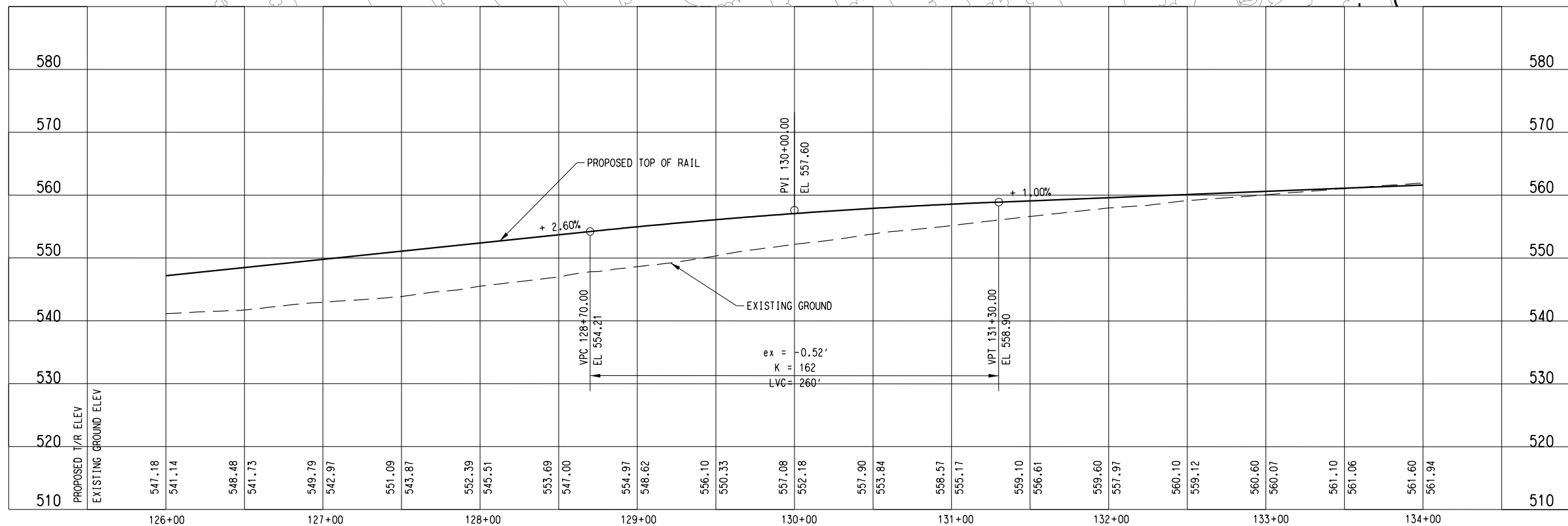
MATCH LINE SOC-3 SB STA 134+00.00
SEE DWG No. CC1-0017



SOC3-F (SB)	SOC3-FF (NB)
Rc = 10000.00'	Rc = 10000.00'
Ls = 0.00'	Ls = 0.00'
Lc = 227.74'	Lc = 227.74'
Ea = 0.75'	Ea = 0.75'
Eu = 0.94"	Eu = 0.94"
V = 65 MPH	V = 65 MPH

SOC3-G (SB)	SOC3-GG (NB)
Rc = 10000.00'	Rc = 10000.00'
Ls = 0.00'	Ls = 0.00'
Lc = 227.74'	Lc = 227.74'
Ea = 0.75'	Ea = 0.75'
Eu = 0.94"	Eu = 0.94"
V = 65 MPH	V = 65 MPH

- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - PROPOSED CROSSOVER LOCATIONS SHOWN ARE PRELIMINARY. FINAL DESIGNER SHALL COORDINATE FINAL LOCATIONS WITH DART SYSTEMS ENGINEERING AND INTEGRATION DEPARTMENT.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 55 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DALLAS, TEXAS 75207
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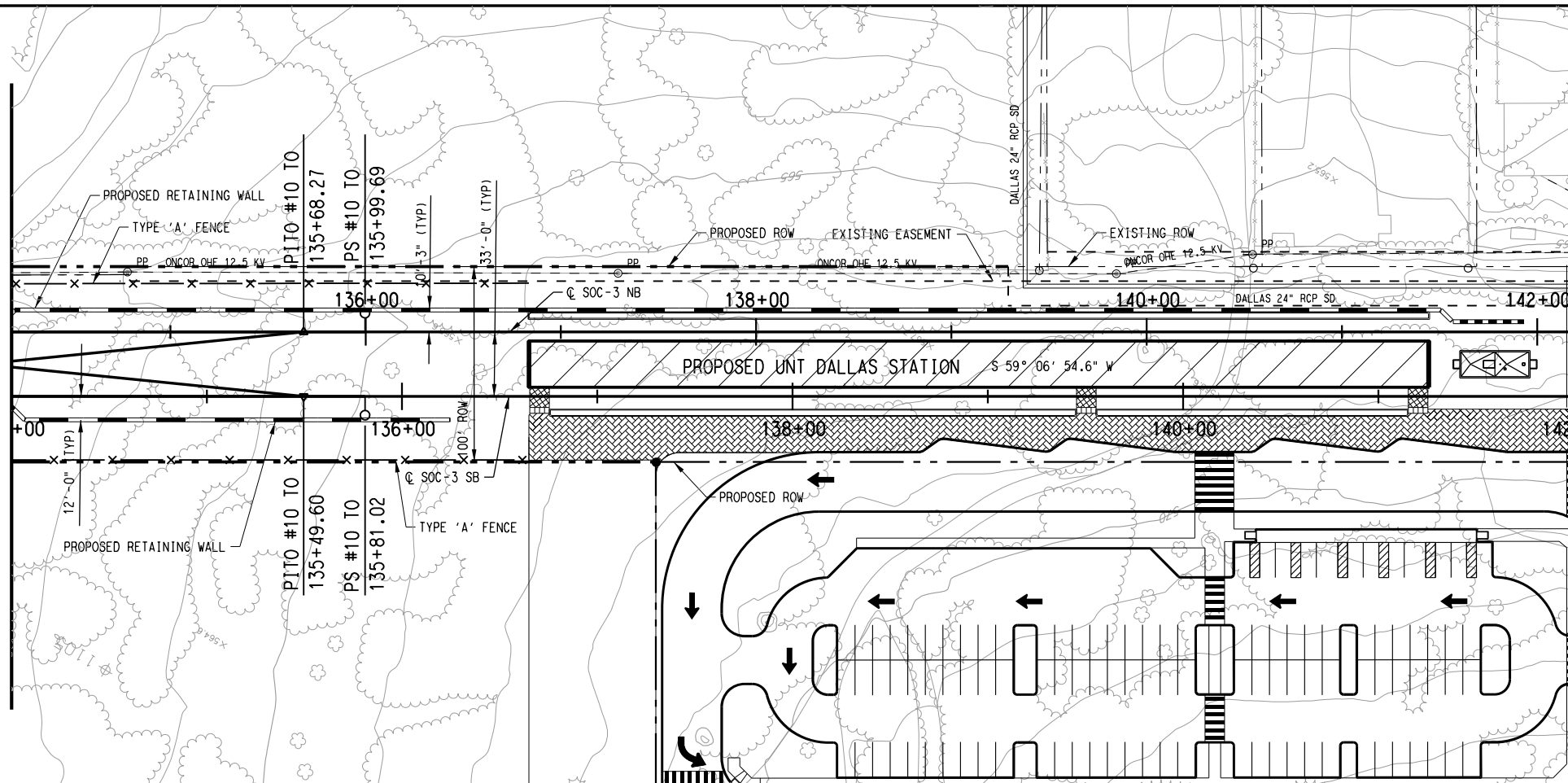
SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	C. KESTILA/J. YEOW
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

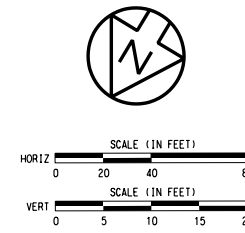
GUIDEWAY PLAN AND PROFILE
STA 126+00.00 TO STA 134+00.00

CONTRACT	DWG No. CC1-0016	REV
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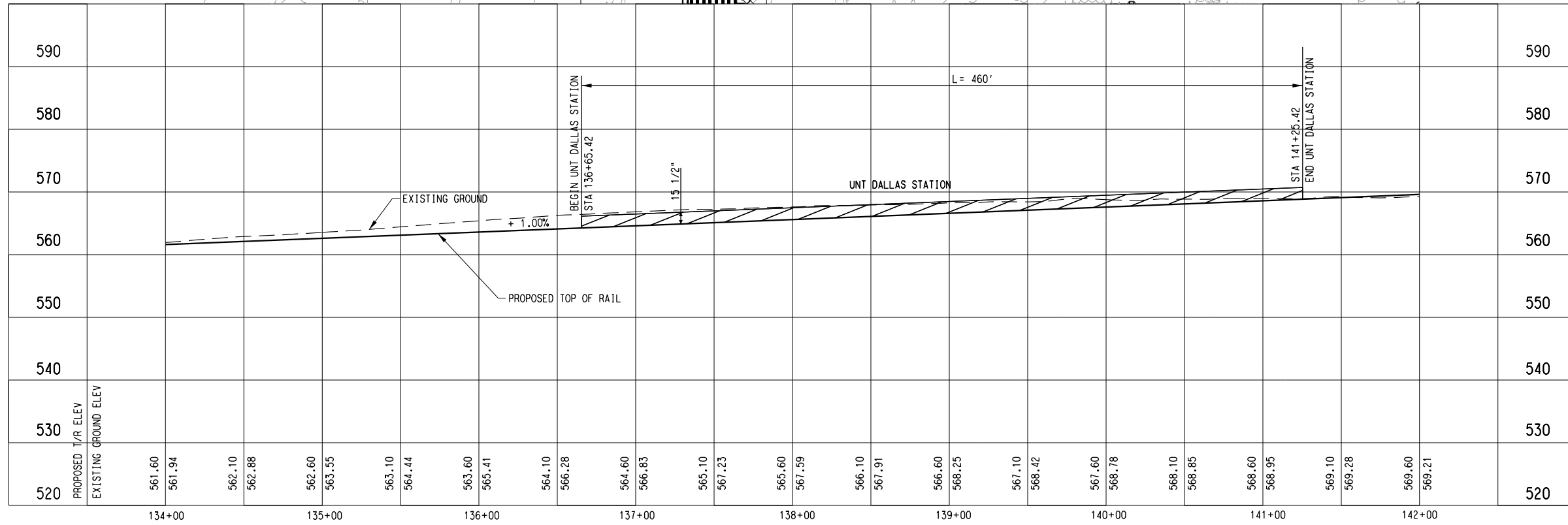
SEE DWG No. CC1-0016
MATCH LINE SOC-3 SB STA 134+00.00



MATCH LINE SOC-3 SB STA 142+00.00
SEE DWG No. CC1-0018



- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - PROPOSED CROSSOVER LOCATIONS SHOWN ARE PRELIMINARY. FINAL DESIGNER SHALL COORDINATE FINAL LOCATIONS WITH DART SYSTEMS ENGINEERING AND INTEGRATION DEPARTMENT.



NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 56 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	C. KESTILAJA, YEOM
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

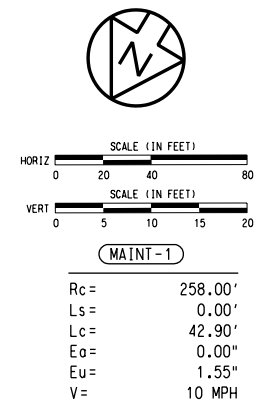
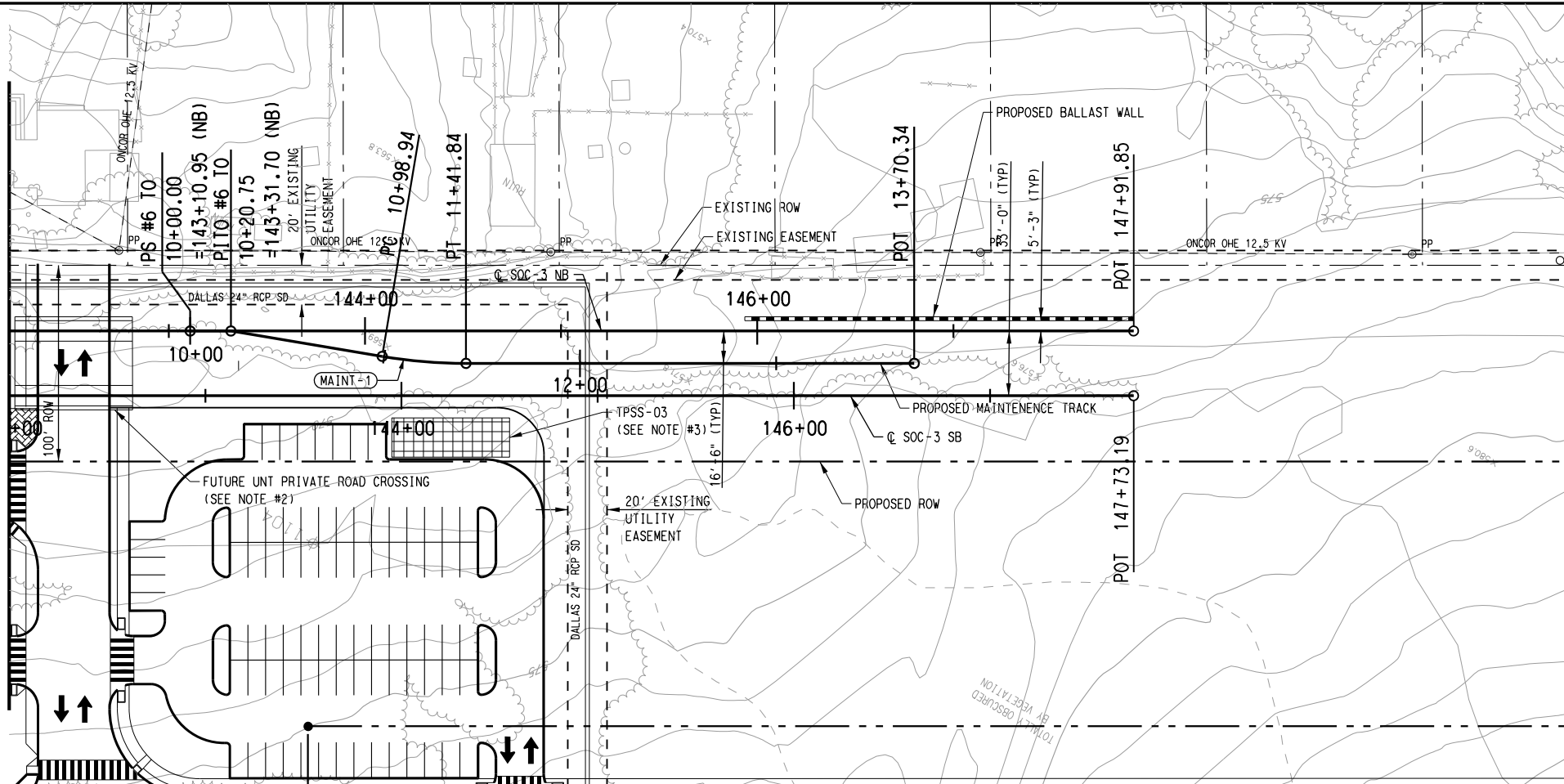
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
GUIDEWAY PLAN AND PROFILE
STA 134+00.00 TO STA 142+00.00**

CONTRACT	DWG No.	CC1-0017	REV
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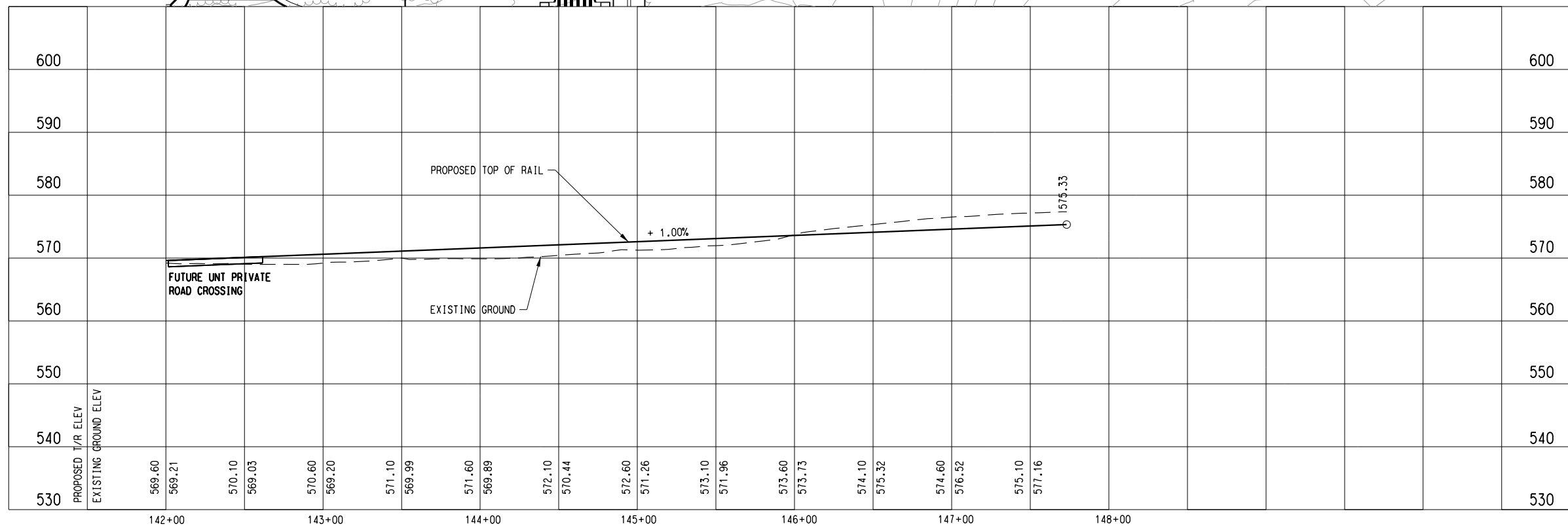
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don_martin_v61 \$\$\$MODEL\$\$

SEE DWG No. CC1-0017
MATCH LINE SOC-3 SB STA 142+00.00



- NOTE:
- SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
 - CONSTRUCT CONCRETE HEADER PER DART HIGHWAY/STREET GRADE CROSSING DETAILS AT FUTURE UNIT PRIVATE ROAD CROSSING. FINAL DESIGNER SHALL COORDINATE WITH UNT DALLAS AND DART REGARDING THE FINAL LOCATION OF THE FUTURE PRIVATE ROAD CROSSING NEAR STATION 142+32.88. THE LOCATION OF THE PRIVATE ROAD CROSSING SHOWN ON THIS SHEET IS APPROXIMATE AND CONCEPTUAL.
 - TPSS SIZE AND LOCATION ARE APPROXIMATE. A TRACTION POWER LOAD FLOW ANALYSIS AND A VOLTAGE DROP ANALYSIS HAVE NOT BEEN PERFORMED. THE FINAL SYSTEMS ENGINEERS MUST CONFIRM THE LOCATION AND SIZE OF THE TPSS NECESSARY FOR THIS PROJECT. MEDIUM VOLTAGE UTILITY POWER IS REQUIRED. COORDINATION WITH THE UTILITY PROVIDER MUST OCCUR DURING FINAL DESIGN TO CONFIRM AVAILABILITY OF ELECTRIC SERVICE AND IDENTIFY EQUIPMENT NECESSARY FOR CONNECTION.



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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 57 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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214-741-7777
URS CORPORATION TBPE ID #F-3162

DART PROJECT

SCALE AS SHOWN
DRAWN D. KING
DESIGNED C. KESTILAJA, YEOW
CHECKED C. ALLEN
IN CHARGE P. ZHAO
DATE 14 SEPT 12

DART

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**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**GUIDEWAY PLAN AND PROFILE
STA 142+00.00 TO STA 147+73.19**

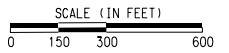
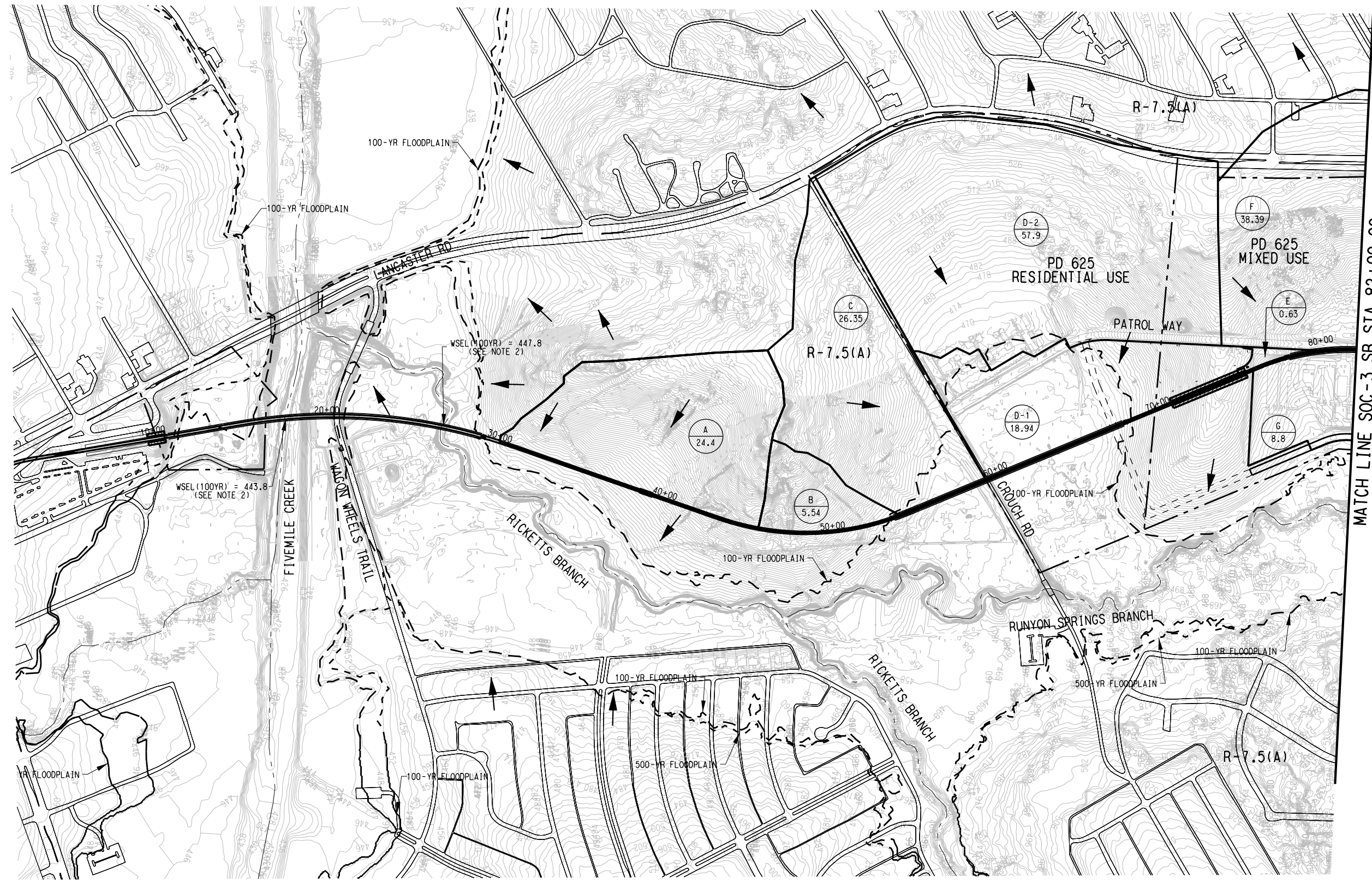
CONTRACT DWG No. CC1-0018 REV

9/11/2012 I:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\DRGN\CVL-AL\SOC3-CC1-0018.040

dan_martin_v61 \$5MODEL\$5

8/2/2012
\\dm-fps04\dm_projects\GPC 5\10 24 SOC-3 PE-EA\GN\CVL-DR\SOC-3-CC6-0001_300

June 1, 2012
\$MODEL\$



- LEGEND:
- Z AREA DESIGNATION
 - 1.3 AREA (ACRES)
 - STREAM CENTERLINE
 - DRAINAGE AREA BOUNDARY
 - DRAINAGE FLOW
 - - - 100-YR FLOODPLAIN LIMITS
 - - - 500-YR FLOODPLAIN LIMITS
 - - - ZONING BOUNDARY

- NOTE:
1. FLOODPLAIN BOUNDARIES SHOWN IN THE PLANS WERE OBTAINED FROM THE CITY OF DALLAS FLOODPLAIN COORDINATOR. THE FLOODPLAIN LIMITS REPRESENT THE SPECIAL HAZARDOUS AREA AS SHOWN ON THE PRELIMINARY FEMA FIRM PANELS FOR THE CITY OF DALLAS DATED JUNE OF 2007 WHICH ARE STILL UNDER REVIEW BY THE CITY OF DALLAS AND FEMA. THESE ARE NOT THE FLOODPLAIN BOUNDARIES CURRENTLY SHOWN ON THE EFFECTIVE FIRM PANELS FOR THE CITY OF DALLAS.
 2. 100-YEAR WATER SURFACE ELEVATIONS SHOWN IN THE PLANS WERE OBTAINED FROM FLOOD PROFILES SHOWN IN THE FEMA FLOOD INSURANCE STUDY FOR DALLAS COUNTY, TEXAS AND INCORPORATED AREAS AS REVISED ON FEBRUARY 5, 2003.
 3. THE SOC-3 5% DESIGN DRAWINGS HAVE BEEN GENERATED BASED UPON AERIAL MAPPING DATA PREPARED FROM A FLIGHT PERFORMED SPECIFICALLY FOR THIS PROJECT BY AERIAL DATA SERVICE IN MARCH OF 2012. AERIAL MAPPING WAS PROVIDED FOR AN 800-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT SOUTH OF CAMP WISDOM ROAD AND A 1,600-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT NORTH OF CAMP WISDOM ROAD.
 4. 1-FOOT CONTOUR DATA WAS DEVELOPED BY AERIAL DATA SERVICE AS PART OF THE PROJECT AERIAL MAPPING EFFORT DESCRIBED IN NOTE 3.
 5. 2-FOOT CONTOUR DATA WAS OBTAINED FROM NCTCOG. NCTCOG DEVELOPED THE CONTOURS FROM A FLIGHT DONE IN THE SPRING OF 2007.

MATCH LINE SOC-3 SB STA 82+00.00
SEE DWG No. CC6-0002

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 58 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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URS CORPORATION TBPE ID #F-3162

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SCALE	
DRAWN	D. KRUCIAK
DESIGNED	D. KRUCIAK/C. ALLEN
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

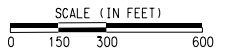
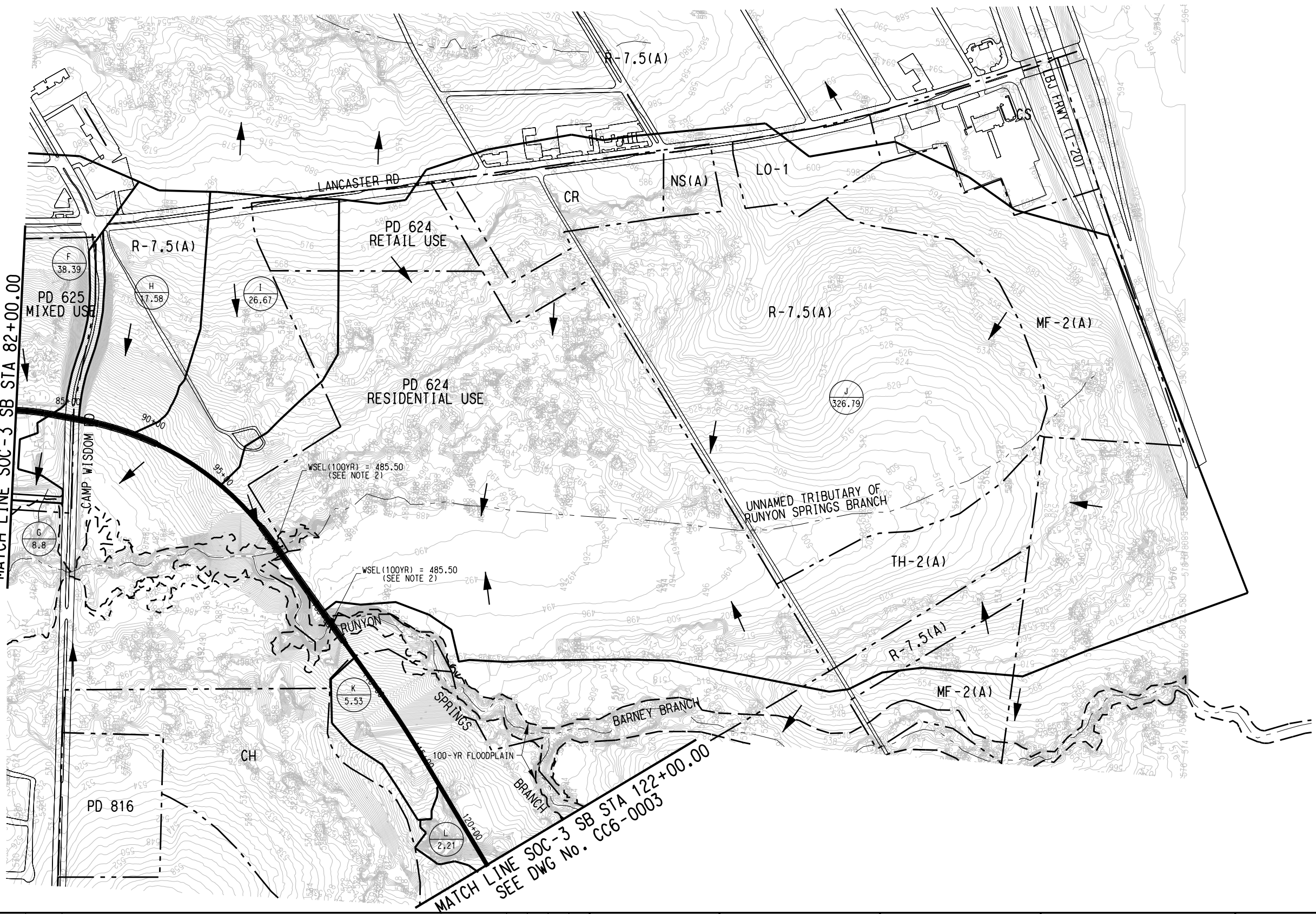
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**DRAINAGE AREA MAP
SHEET 1 OF 3**

CONTRACT	DWG No.	REV
	CC6-0001	

8/2/2012
 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-DR\SOC-3-CC6-0002-300

June 1 - Yeow, V81
 \$\$\$MODEL\$\$



- LEGEND:
- AREA DESIGNATION
1.3 AREA (ACRES)
 - STREAM CENTERLINE
 - DRAINAGE AREA BOUNDARY
 - DRAINAGE FLOW
 - 100-YR FLOODPLAIN LIMITS
 - 500-YR FLOODPLAIN LIMITS
 - ZONING BOUNDARY

- NOTE:
1. FLOODPLAIN BOUNDARIES SHOWN IN THE PLANS WERE OBTAINED FROM THE CITY OF DALLAS FLOODPLAIN COORDINATOR. THE FLOODPLAIN LIMITS REPRESENT THE SPECIAL FLOOD HAZARD AREA AS SHOWN ON THE PRELIMINARY FEMA FIRM PANELS FOR THE CITY OF DALLAS DATED JUNE OF 2007 WHICH ARE STILL UNDER REVIEW BY THE CITY OF DALLAS AND FEMA. THESE ARE NOT THE FLOODPLAIN BOUNDARIES CURRENTLY SHOWN ON THE EFFECTIVE FIRM PANELS FOR THE CITY OF DALLAS.
 2. 100-YEAR WATER SURFACE ELEVATIONS SHOWN IN THE PLANS WERE OBTAINED FROM FLOOD PROFILES SHOWN IN THE FEMA FLOOD INSURANCE STUDY FOR DALLAS COUNTY, TEXAS AND INCORPORATED AREAS AS REVISED ON FEBRUARY 5, 2003.
 3. THE SOC-3 5% DESIGN DRAWINGS HAVE BEEN GENERATED BASED UPON AERIAL MAPPING DATA PREPARED FROM A FLIGHT PERFORMED SPECIFICALLY FOR THIS PROJECT BY AERIAL DATA SERVICE IN MARCH OF 2012. AERIAL MAPPING WAS PROVIDED FOR AN 800-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT SOUTH OF CAMP WISDOM ROAD AND A 1,600-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT NORTH OF CAMP WISDOM ROAD.
 4. 1-FOOT CONTOUR DATA WAS DEVELOPED BY AERIAL DATA SERVICE AS PART OF THE PROJECT AERIAL MAPPING EFFORT DESCRIBED IN NOTE 3.
 5. 2-FOOT CONTOUR DATA WAS OBTAINED FROM NCTCOG. NCTCOG DEVELOPED THE CONTOURS FROM A FLIGHT DONE IN THE SPRING OF 2007.

NOT AN APPROVED DRAWING
 PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 59 OF 79

LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3

DRAINAGE AREA MAP
 SHEET 2 OF 3

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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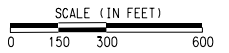
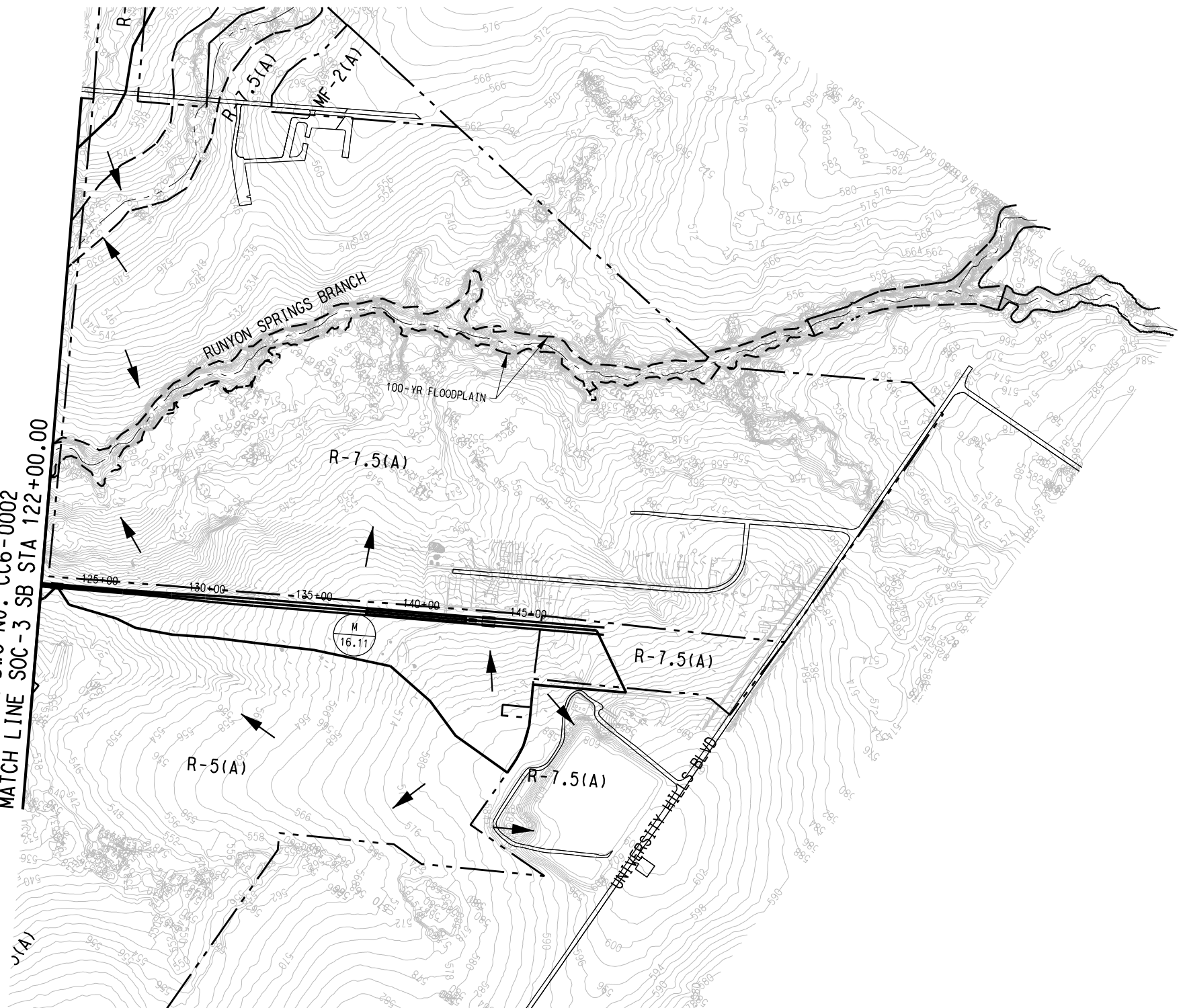
SCALE	
DRAWN	D. KRUCIAK
DESIGNED	D. KRUCIAK/C. ALLEN
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT	DWG No.	REV
	CC6-0002	

8/2/2012
\\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-DR\SOC-3-CC6-0003.300

June 1, 2012
\$BMODEL\$

SEE DWG No. CC6-0002
MATCH LINE SOC-3 SB STA 122+00.00



- LEGEND:
- AREA DESIGNATION
 - AREA (ACRES)
 - STREAM CENTERLINE
 - DRAINAGE AREA BOUNDARY
 - DRAINAGE FLOW
 - 100-YR FLOODPLAIN LIMITS
 - 500-YR FLOODPLAIN LIMITS
 - ZONING BOUNDARY

- NOTE:
- FLOODPLAIN BOUNDARIES SHOWN IN THE PLANS WERE OBTAINED FROM THE CITY OF DALLAS FLOODPLAIN COORDINATOR. THE FLOODPLAIN LIMITS REPRESENT THE SPECIAL FLOOD HAZARD AREA AS SHOWN ON THE PRELIMINARY FEMA FIRM PANELS FOR THE CITY OF DALLAS DATED JUNE OF 2007 WHICH ARE STILL UNDER REVIEW BY THE CITY OF DALLAS AND FEMA. THESE ARE NOT THE FLOODPLAIN BOUNDARIES CURRENTLY SHOWN ON THE EFFECTIVE FIRM PANELS FOR THE CITY OF DALLAS.
 - 100-YEAR WATER SURFACE ELEVATIONS SHOWN IN THE PLANS WERE OBTAINED FROM FLOOD PROFILES SHOWN IN THE FEMA FLOOD INSURANCE STUDY FOR DALLAS COUNTY, TEXAS AND INCORPORATED AREAS AS REVISED ON FEBRUARY 5, 2003.
 - THE SOC-3 5% DESIGN DRAWINGS HAVE BEEN GENERATED BASED UPON AERIAL MAPPING DATA PREPARED FROM A FLIGHT PERFORMED SPECIFICALLY FOR THIS PROJECT BY AERIAL DATA SERVICE IN MARCH OF 2012. AERIAL MAPPING WAS PROVIDED FOR AN 800-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT SOUTH OF CAMP WISDOM ROAD AND A 1,600-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT NORTH OF CAMP WISDOM ROAD.
 - 1-FOOT CONTOUR DATA WAS DEVELOPED BY AERIAL DATA SERVICE AS PART OF THE PROJECT AERIAL MAPPING EFFORT DESCRIBED IN NOTE 3.
 - 2-FOOT CONTOUR DATA WAS OBTAINED FROM NCTCOG. NCTCOG DEVELOPED THE CONTOURS FROM A FLIGHT DONE IN THE SPRING OF 2007.

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PRELIMINARY ENGINEERING 5% DESIGN

CONTRACT SHEET No. 60 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

DRAINAGE AREA MAP
SHEET 3 OF 3

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	1" = 300'
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DESIGNED	D. KRUCIAK/C. ALLEN
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT	DWG No.	REV
	CC6-0003	

DRAINAGE AREA SUMMARY TABLE

DRAINAGE AREA NO.	R-7.5(A) C=0.65	R-5(A) C=0.65	CH C=0.80	MF-2(A) C=0.80	TH-2(A) C=0.80	CS C=0.90	LO-1 C=0.90	NS(A) C=0.90	CR C=0.90	PD 625 RESIDENTIAL USE C=0.65	PD 625 MIXED USE C=0.80	PD 624 RETAIL USE C=0.90	PD 624 RESIDENTIAL USE C=0.65	MZ CITY OF LANCASTER C=0.90	TOTAL AREA	ACCUMULATED AREA "CA"	"C"	Tc (MIN.)	I (100-YR) (IN./HR)	Q (100 YR) (CFS)	REMARKS
A	24.40														24.40	15.86	0.65	17.1	7.40	117.36	DITCH ALONG RAIL
B	5.54														5.54	3.60	0.65	16.4	7.30	26.29	DITCH ALONG RAIL & FLOWS UNDER RAIL BRIDGE
C	26.35														26.35	17.13	0.65	17.1	7.40	126.74	AREA FLOWS UNDER RAIL BRIDGE
D-1										16.2	2.8				18.94	12.73	0.67	10.0	8.88	113.01	AREA FLOWS UNDER RAIL BRIDGE
D-2										51.0	7.0				57.90	38.68	0.67	10.0	8.88	391.16	FLOWS TO AREA D-1, TOTAL 100-YR DISCHARGE "Q" OBTAINED FROM DRAINAGE AREA MAP FOR MAGNOLIA TRACE DATED JUNE 2009, BY TIPTON ENGINEERING
E											0.6				0.63	0.50	0.80	10.0	8.88	4.48	TO AN EXISTING STORM DRAIN
F	12.14										26.3				38.39	28.89	0.75	10.0	8.88	256.55	TO AN EXISTING STORM DRAIN
G											8.8				8.80	7.04	0.80	10.0	8.88	62.52	AREA FLOWS UNDER RAIL BRIDGE
H	17.58														17.58	11.43	0.65	15.0	7.56	86.39	AREA FLOWS UNDER RAIL BRIDGE
I	18.05											4.8	3.9		26.67	18.53	0.69	15.6	7.50	138.94	DITCH ALONG RAIL & FLOWS UNDER RAIL BRIDGE
J	108.90			32.2	17.0	0.7	5.7	2.7	11.9			6.9	111.8	29.0	326.79	-	CN=87.43	LAG TIME = 21.68	9.6 IN SCS TYPE II 24 HR	2053.00	TRIBUTARY FLOWS UNDER RAIL BRIDGE, "Q" CALCULATED USING SCS METHOD
K		5.5													5.53	3.59	0.65	10.0	8.88	31.92	DITCH ALONG RAIL & FLOWS UNDER RAIL BRIDGE
L		2.2													2.21	1.44	0.65	10.0	8.88	12.76	DITCH ALONG RAIL TO PIPE UNDER RAIL
M		16.1													16.11	10.47	0.65	19.2	6.90	72.25	DITCH ALONG RAIL TO PIPE UNDER RAIL

8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DGN\CVL-DR\SOC-3-CC6-0004.001

June L. Yeow, V61
SSMODEL\$

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CONTRACT SHEET No. 61 OF 79

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

DRAINAGE AREA CALCULATIONS
SHEET 1 OF 1

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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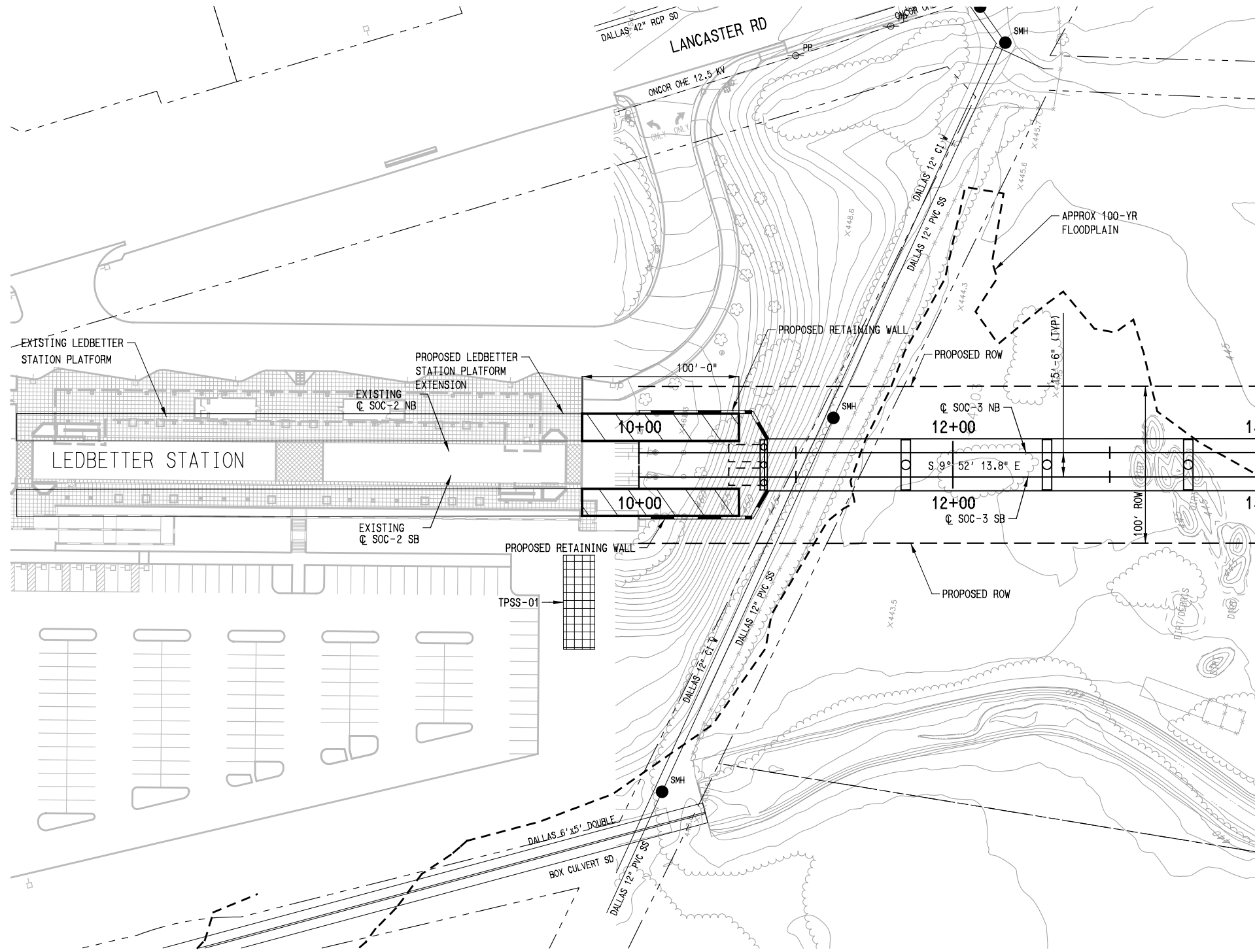


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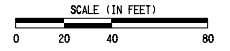
SCALE	NONE
DRAWN	D. KRUCIAK
DESIGNED	D. KRUCIAK/C. ALLEN
CHECKED	C. ALLEN
TN CHARGE	P. ZHAO
DATE	03 AUG 12

CONTRACT DWG No. REV

CC6-0004



MATCH LINE SOC-3 SB STA 14+00.00
SEE DWG No. UC2-0002



- NOTES:**
- FOR HORIZONTAL AND VERTICAL GEOMETRY, SEE HORIZONTAL DATA TABLE SHEETS AND GUIDEWAY PLAN AND PROFILE SHEETS.
 - UTILITY INFORMATION IS BASED UPON EXISTING UTILITY PLANS PROVIDED BY CITY OF DALLAS. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND FACILITIES. RECORD INFORMATION IS BASED UPON DATA COLLECTED FROM BOTH PUBLIC AND PRIVATE SOURCES. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED EXCEPT BY FIELD MEASUREMENT.
 - ENCASEMENTS OF EXISTING UTILITIES WHICH CROSS THE DART SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT DART OR UTILITY COMPANY REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
 - ALL ELECTRIC, TELEPHONE, GAS LINE, AND COMMUNICATION CABLES ARE CONSIDERED PRIVATE UTILITIES AND WILL BE RELOCATED BY OTHERS.
 - FINAL DESIGNERS SHALL VERIFY THE HEIGHT OF ALL AERIAL CABLE CROSSINGS AND PERFORM SUE FOR ALL HIGH PRESSURE GAS AND LIQUID NATURAL GAS LINES CROSSING UNDER TRACKS TO ENSURE SAFE ENCASEMENT AND DEPTH.

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DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

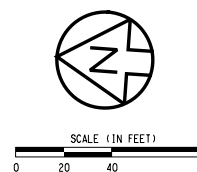
CONTRACT SHEET No. 62 OF 79	
LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3	
EXISTING UTILITY COMPOSITE STA 10+00.00 TO STA 14+00.00	
CONTRACT	DWG No. UC2-0001
REV	

USER: odurosowo
Default



SEE DWG No. UC2-0001
MATCH LINE SOC-3 SB STA 14+00.00

MATCH LINE SOC-3 SB STA 22+00.00
SEE DWG No. UC2-0003



- NOTES:
- SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DATE	08/03/2012

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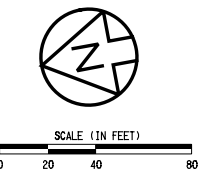
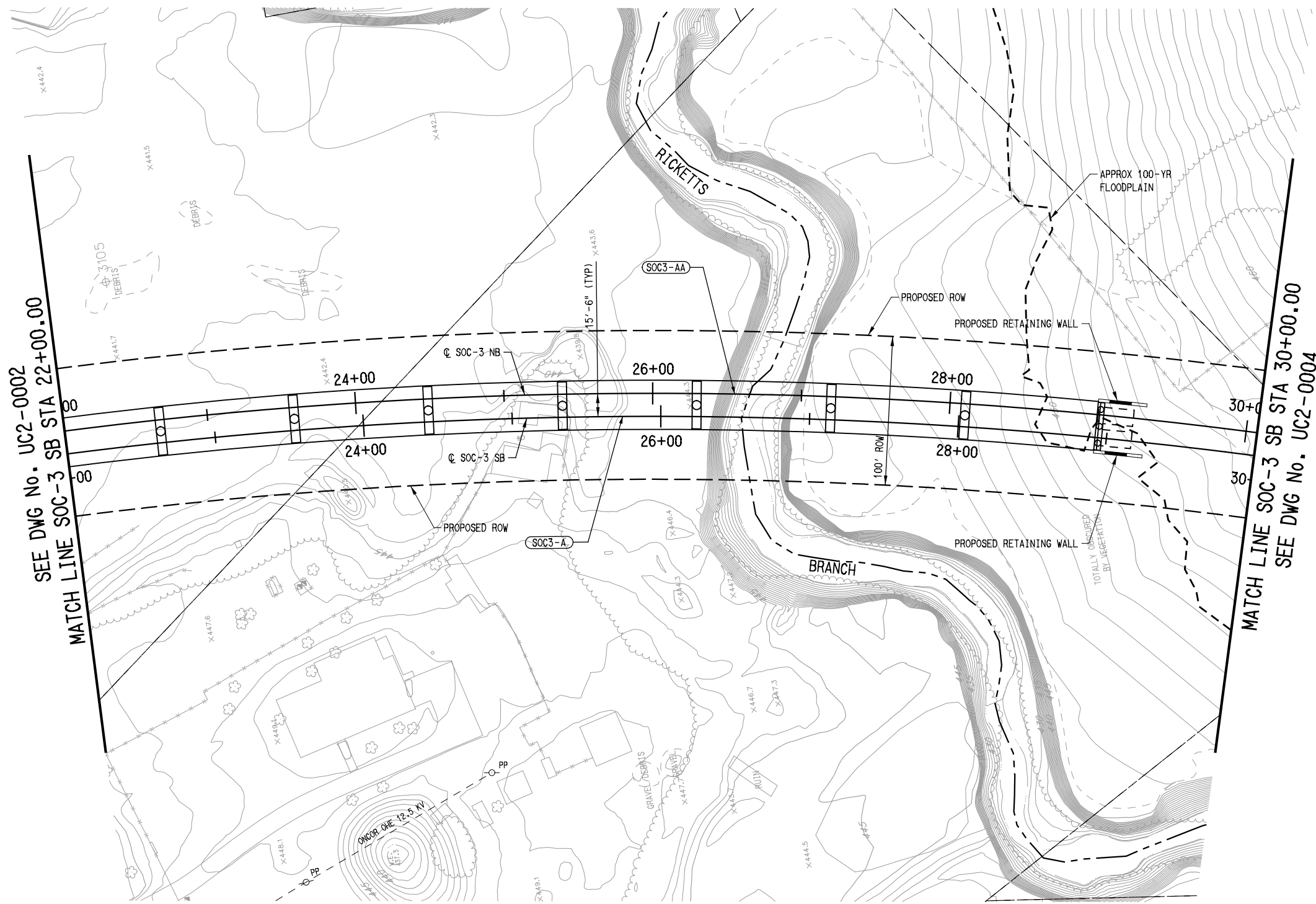
CONTRACT DWG No. UC2-0002 REV

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

EXISTING UTILITY COMPOSITE
STA 14+00.00 TO STA 22+00.00

USER: odurosawo
Default

\$\$\$\$SYTIME\$\$\$\$
... \DGN\CVL-UT\SOC3-UC2-0002.040



NOTES:
 1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0002
 MATCH LINE SOC-3 SB STA 22+00.00

MATCH LINE SOC-3 SB STA 30+00.00
 SEE DWG No. UC2-0004

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CONTRACT SHEET No. 64 OF 79	
LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3	
EXISTING UTILITY COMPOSITE STA 22+00.00 TO STA 30+00.00	
CONTRACT	DWG No. UC2-0003

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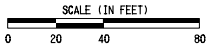
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DESIGNED	O. DUROSANO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

USER: odurosawo
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 ...\\DGN\CVL-UT\SOC3-UC2-0003.040

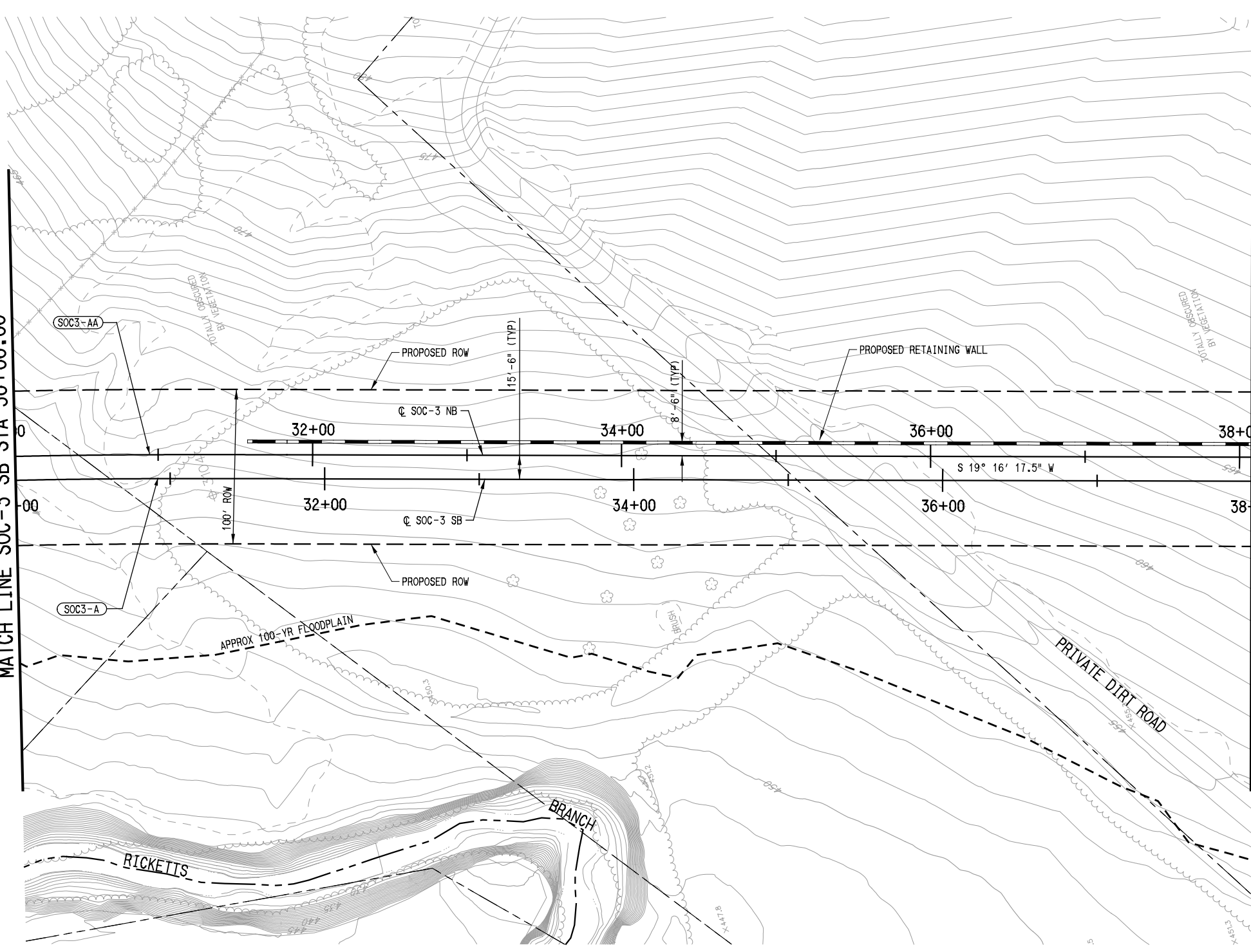


NOTES:

- 1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0003
MATCH LINE SOC-3 SB STA 30+00.00

MATCH LINE SOC-3 SB STA 38+00.00
SEE DWG No. UC2-0005



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CONTRACT SHEET No. 65 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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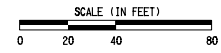
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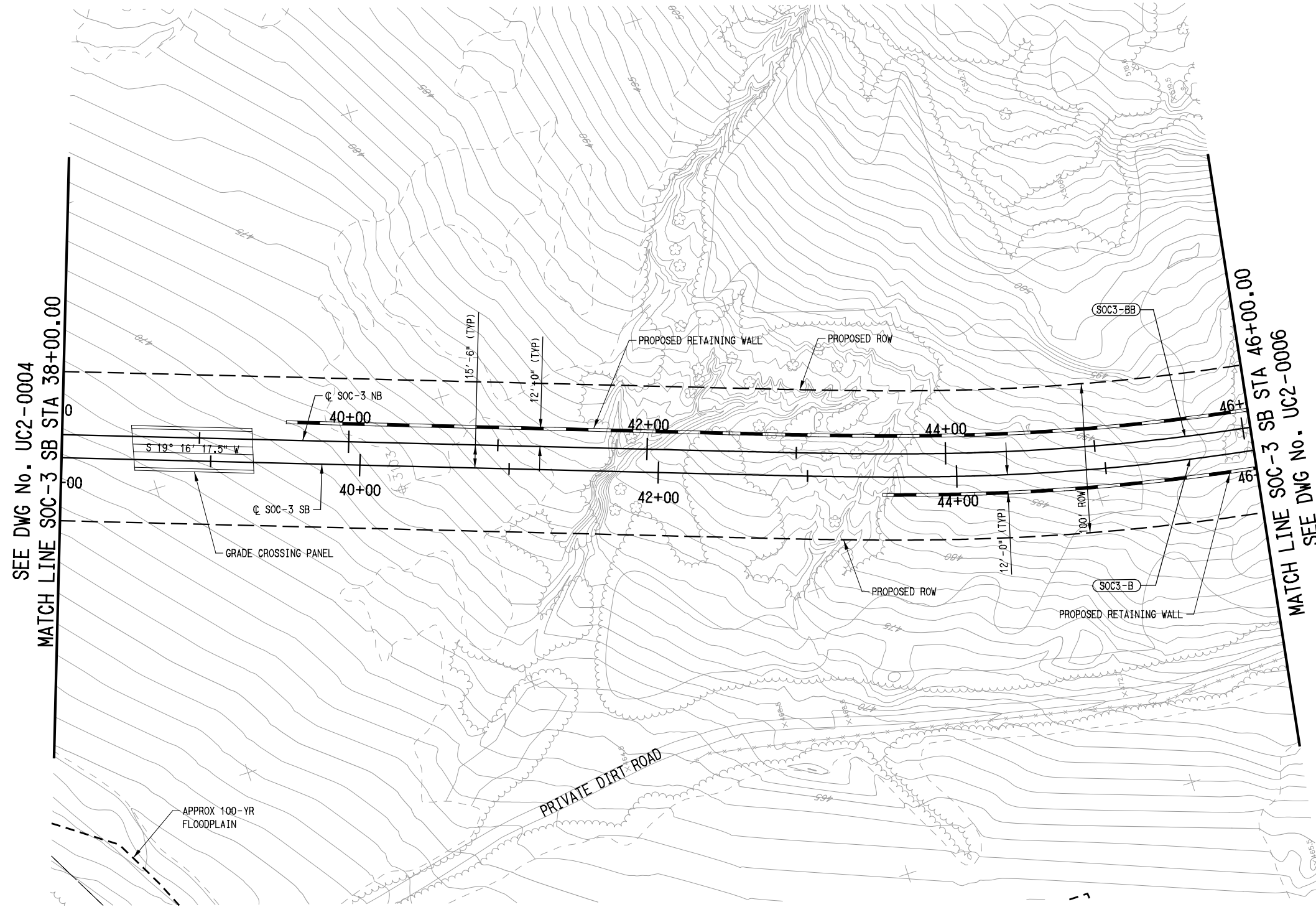
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**
**EXISTING UTILITY COMPOSITE
STA 30+00.00 TO STA 38+00.00**

CONTRACT	DWG No. UC2-0004	REV
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USER: odurosawo
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- NOTES:
- SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.



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MATCH LINE SOC-3 SB STA 38+00.00

MATCH LINE SOC-3 SB STA 46+00.00
SEE DWG No. UC2-0006

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

EXISTING UTILITY COMPOSITE
STA 38+00.00 TO STA 46+00.00

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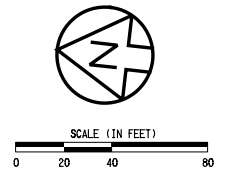
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DRAWN	H. GARCIA
DESIGNED	O. DUROSANO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

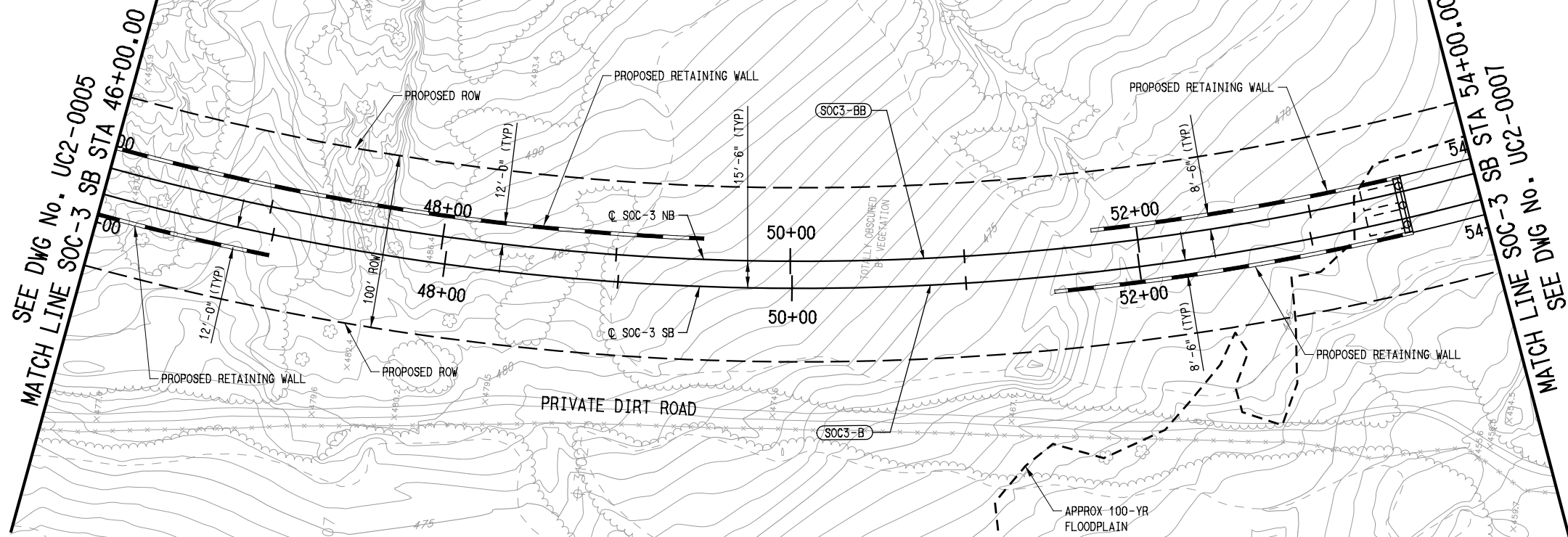


CONTRACT	DWG No.	UC2-0005	REV
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\$\$\$\$SYTIME\$\$\$\$
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NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.



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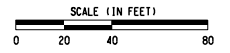
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

EXISTING UTILITY COMPOSITE
STA 46+00.00 TO STA 54+00.00

CONTRACT DWG No. UC2-0006 REV

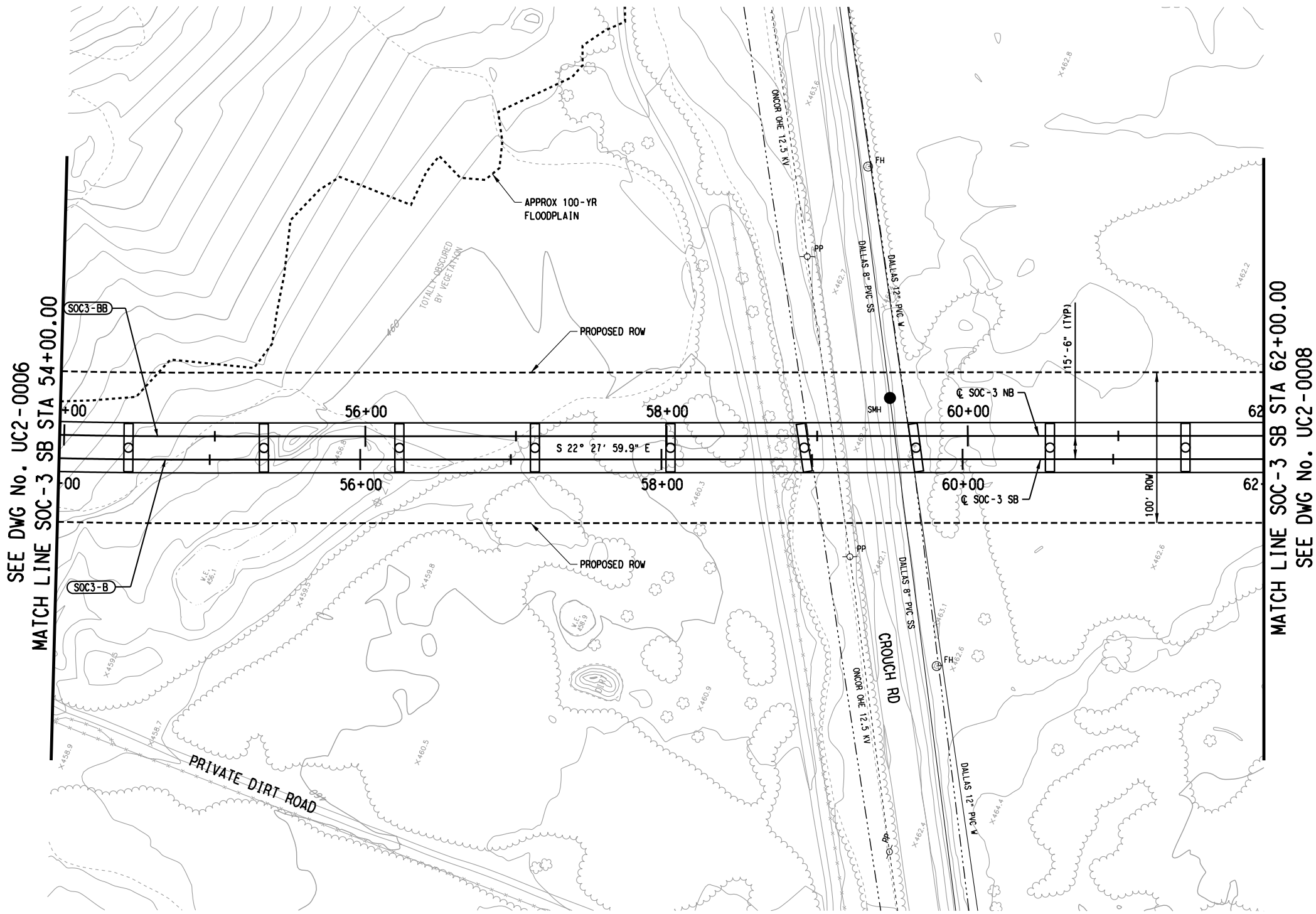
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\$\$\$\$SYTIME\$\$\$\$
... \DGN\CVL-UT\SOC3-UC2-0006.040



NOTES:

- 1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.



SEE DWG No. UC2-0006
MATCH LINE SOC-3 SB STA 54+00.00

MATCH LINE SOC-3 SB STA 62+00.00
SEE DWG No. UC2-0008

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CONTRACT SHEET No. 68 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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Transportation • Municipal • Land Development
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214-741-7777
URS CORPORATION TBPE ID #F-3162

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SCALE 1" = 40'
DRAWN H. GARCIA
DESIGNED O. DUROSAWO
CHECKED D. FRANCIS
IN CHARGE D. FRANCIS
DATE 08/03/2012

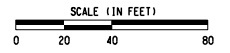
**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**EXISTING UTILITY COMPOSITE
STA 54+00.00 TO STA 62+00.00**

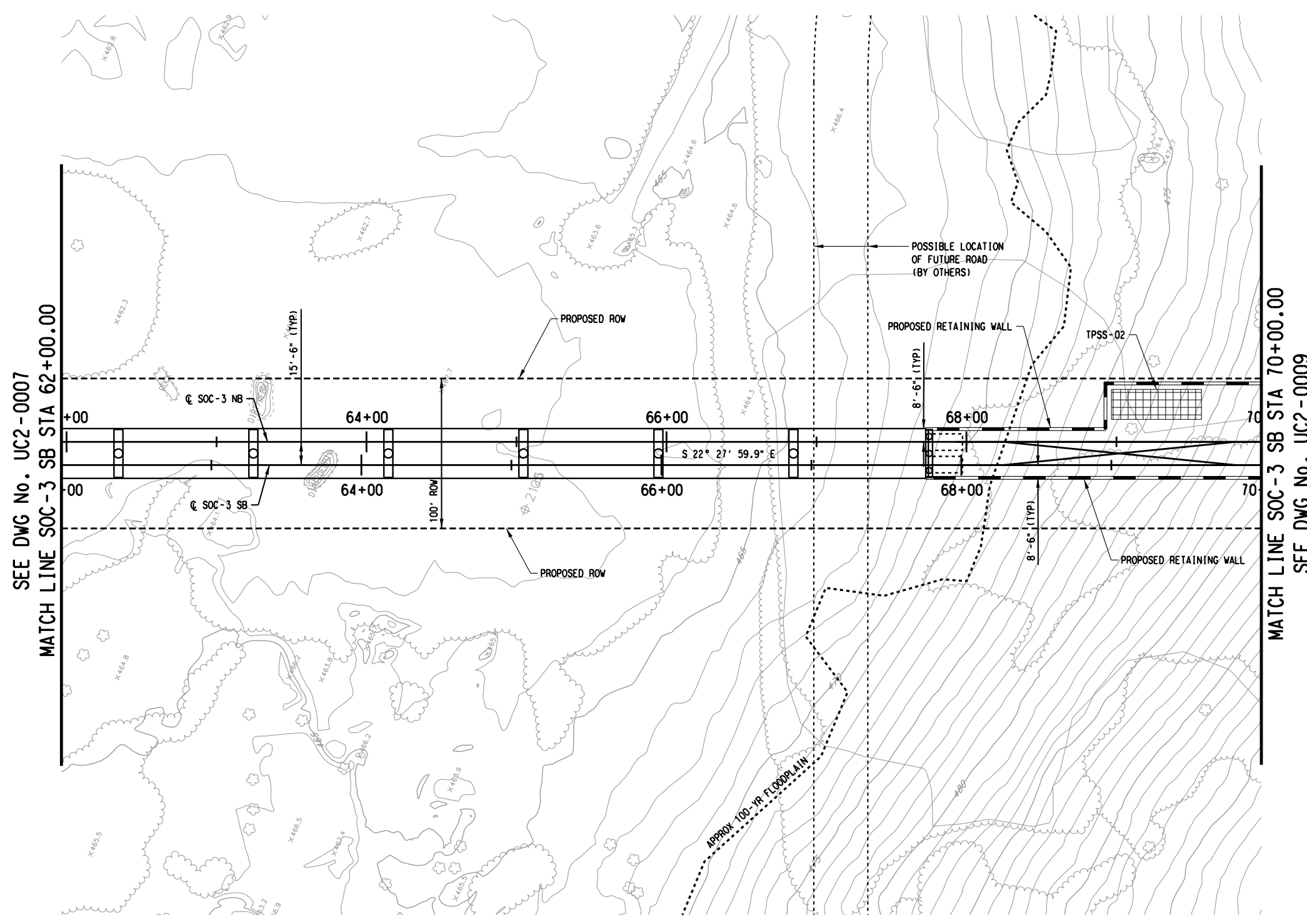
CONTRACT	DWG No.	REV
UC2-0007	UC2-0007	

USER: dfrancis
Default

\$\$\$\$SYTIME\$\$\$\$
... \DGN\CVL-UT\SOC3-UC2-0007.dwg



NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.



SEE DWG No. UC2-0007
MATCH LINE SOC-3 SB STA 62+00.00

MATCH LINE SOC-3 SB STA 70+00.00
SEE DWG No. UC2-0009

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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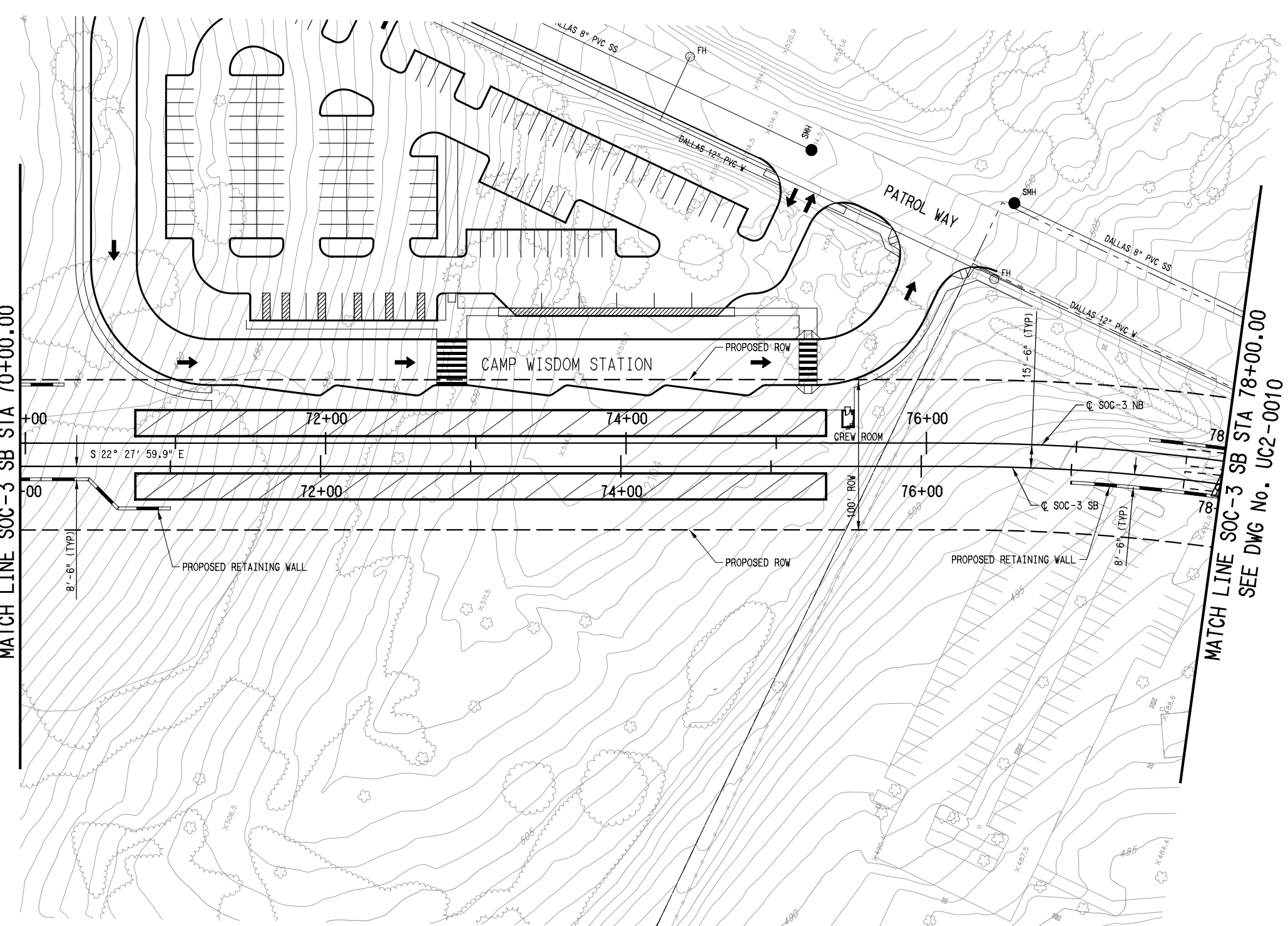
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SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

CONTRACT SHEET No. 69 OF 79	
LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3	
EXISTING UTILITY COMPOSITE STA 62+00.00 TO STA 70+00.00	
CONTRACT	DWG No. UC2-0008
REV	

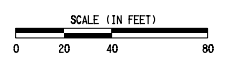
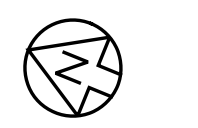
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\$\$\$\$SYTIME\$\$\$\$
... \DGN\CVL-UT\SOC3-UC2-0008.040



SEE DWG No. UC2-0008
MATCH LINE SOC-3 SB STA 70+00.00

MATCH LINE SOC-3 SB STA 78+00.00
SEE DWG No. UC2-0010



NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

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CONTRACT SHEET No. 70 OF 79

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214-741-7777
URS CORPORATION TBPE ID #F-3162

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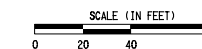
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SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

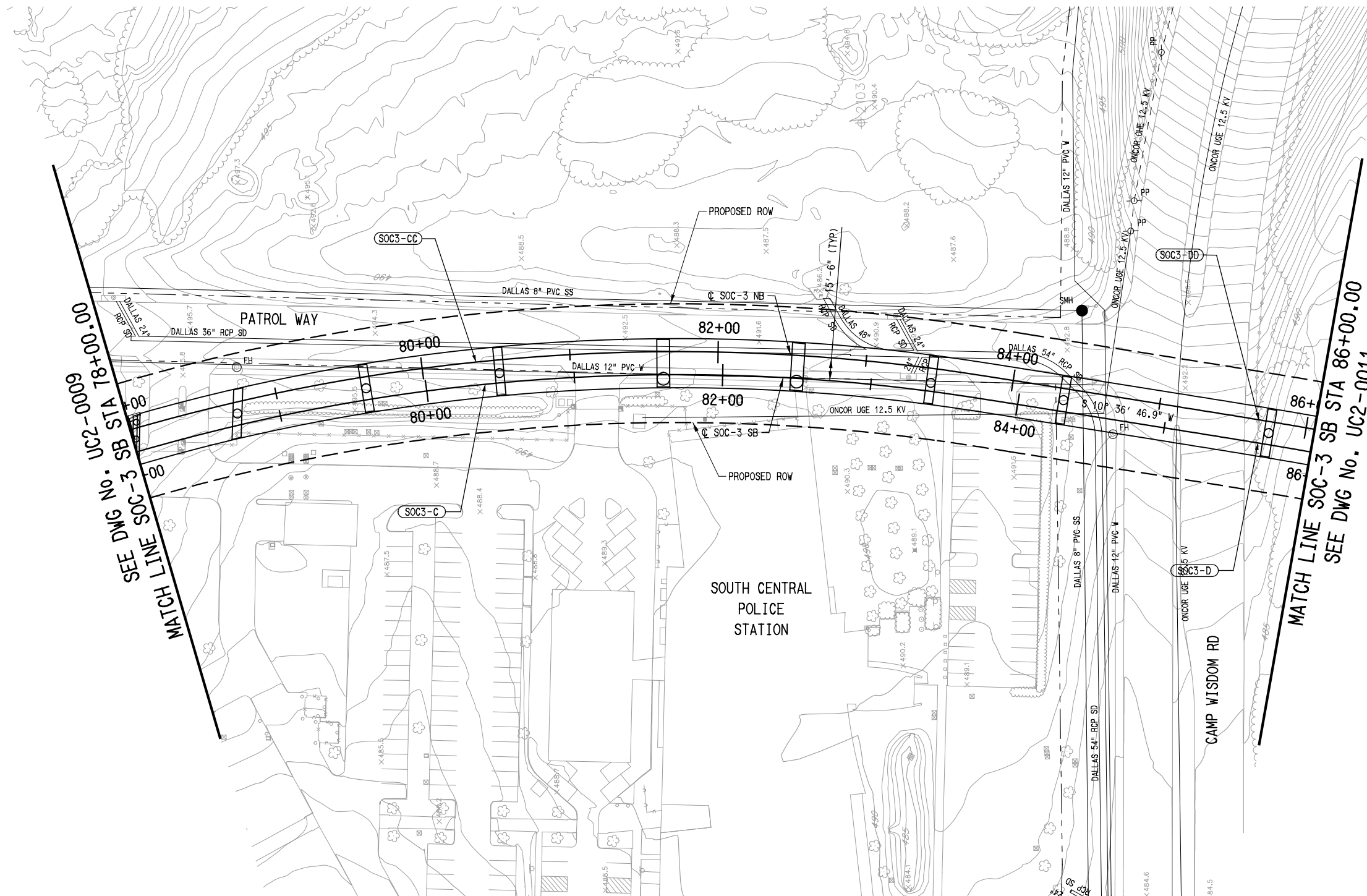
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
EXISTING UTILITY COMPOSITE
STA 70+00.00 TO STA 78+00.00

CONTRACT DWG No. UC2-0009 REV

USER: odurosowo Default



- NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.



SEE DWG No. UC2-0000
MATCH LINE SOC-3 SB STA 78+00.00

MATCH LINE SOC-3 SB STA 86+00.00
SEE DWG No. UC2-0011

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CONTRACT SHEET No. 71 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

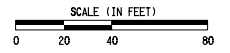
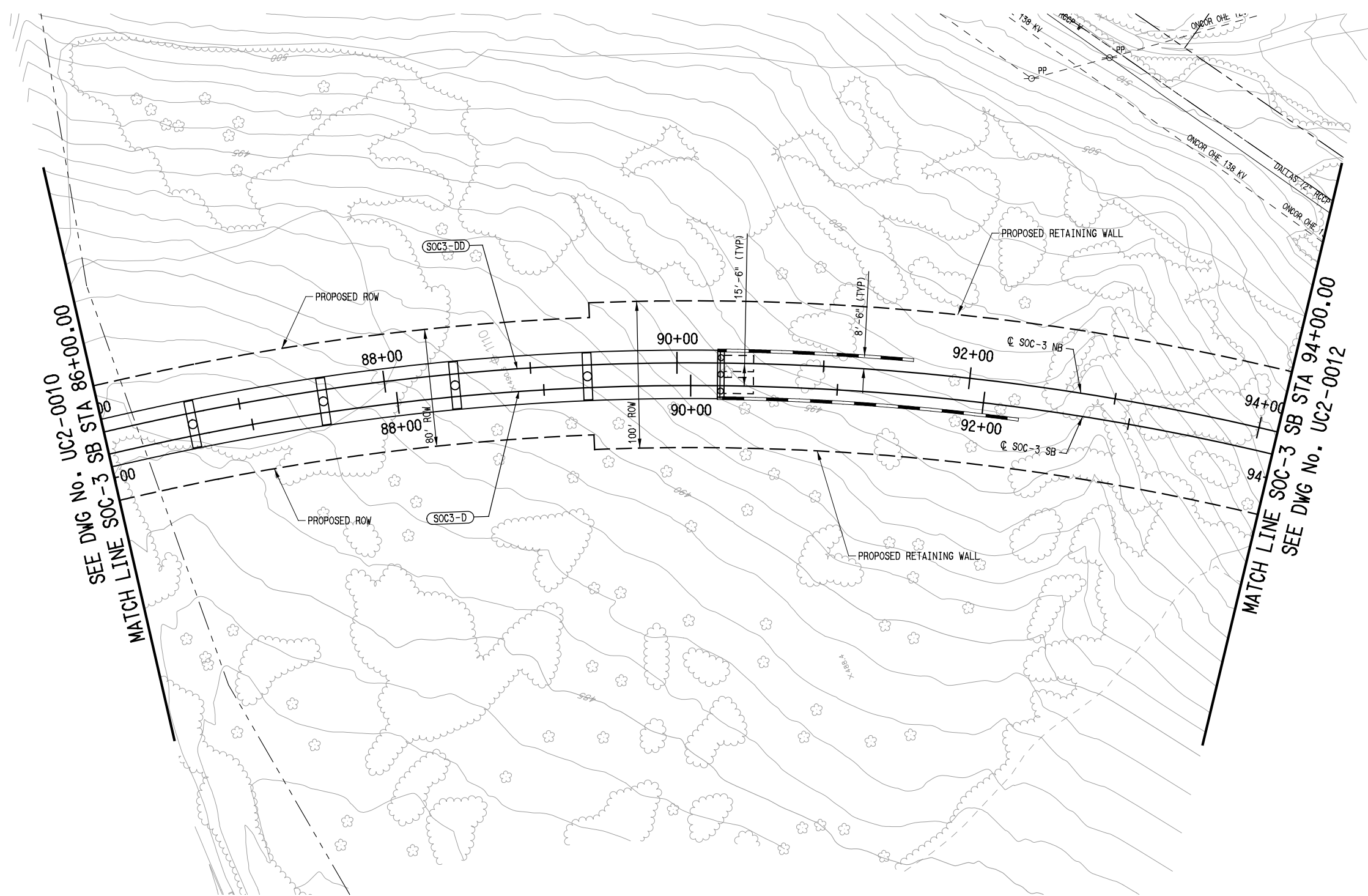
CAES

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**EXISTING UTILITY COMPOSITE
STA 78+00.00 TO STA 86+00.00**

CONTRACT DWG No. UC2-0010 REV

USER: odurosawo
Default



- NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

MATCH LINE SOC-3 SB STA 86+00.00
SEE DWG No. UC2-0010

MATCH LINE SOC-3 SB STA 94+00.00
SEE DWG No. UC2-0012

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CONTRACT SHEET No. 72 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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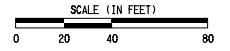
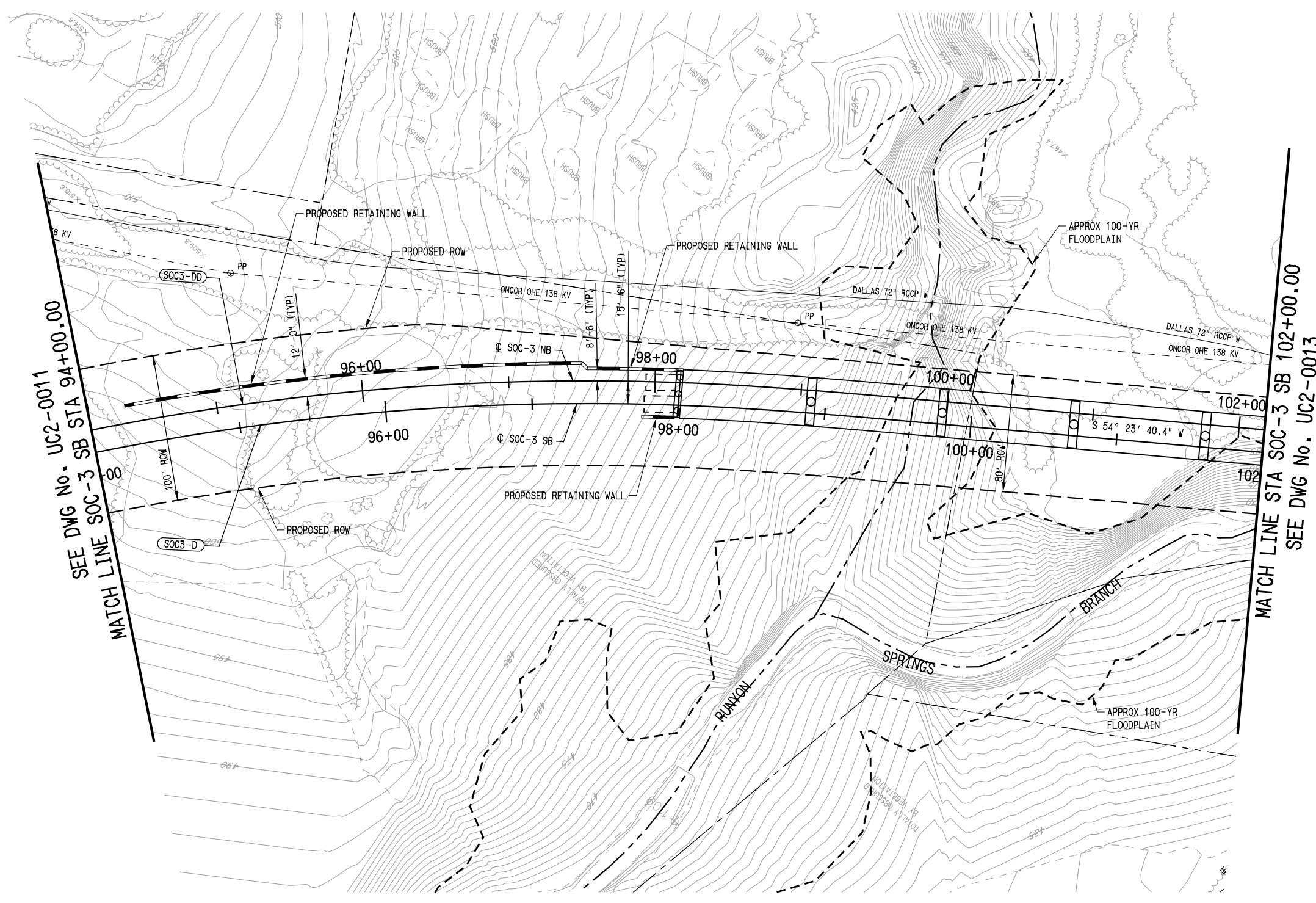
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SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSANO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3**
 EXISTING UTILITY COMPOSITE
 STA 86+00.00 TO STA 94+00.00

CONTRACT	DWG No.	UC2-0011	REV
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USER: odurosawo Default



NOTES:
 1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0011
 MATCH LINE SOC-3 SB STA 94+00.00

MATCH LINE STA SOC-3 SB 102+00.00
 SEE DWG No. UC2-0013

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CONTRACT SHEET No. 73 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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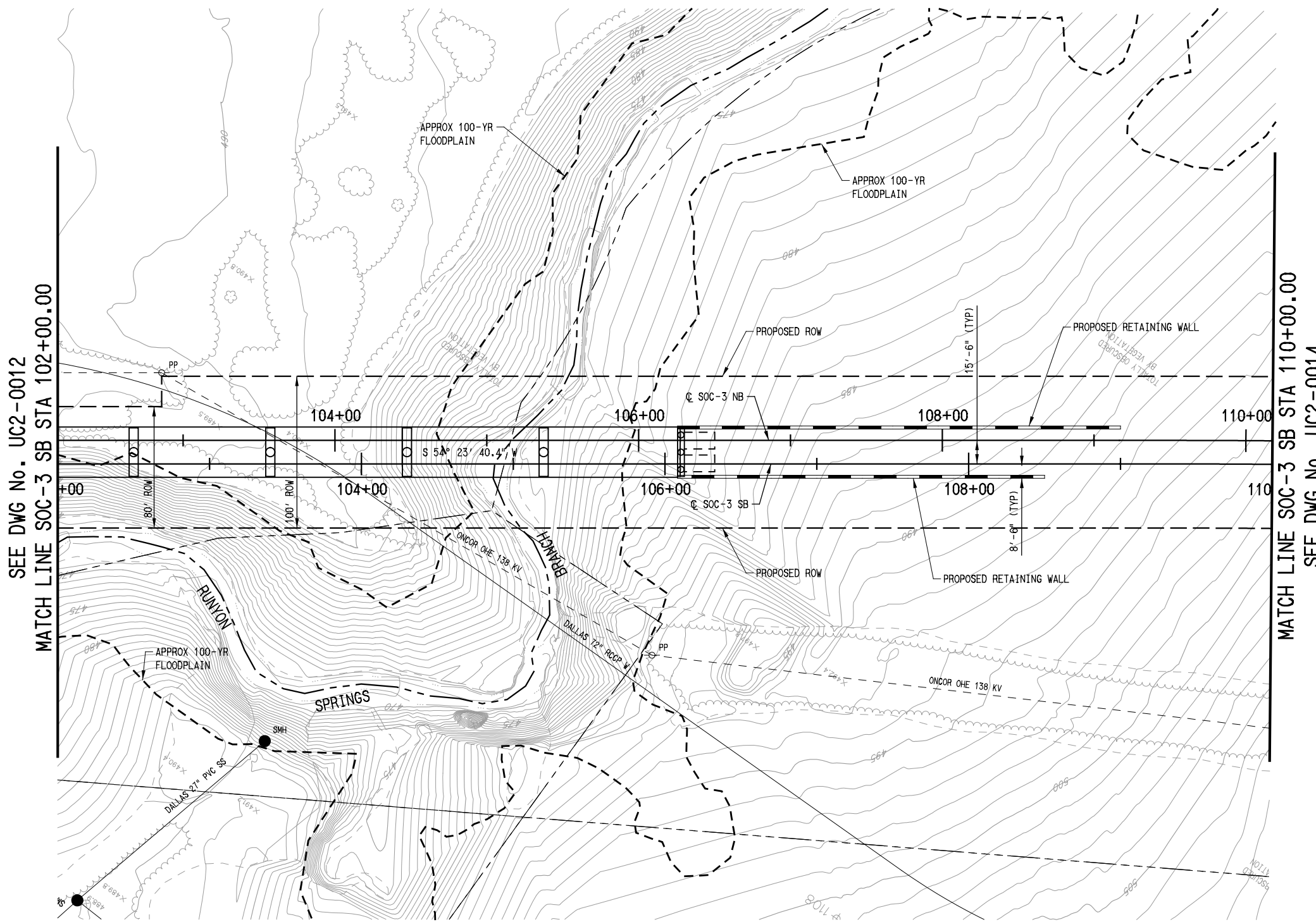
SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSANO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

EXISTING UTILITY COMPOSITE
STA 94+00.00 TO STA 102+00.00

CONTRACT	DWG No. UC2-0012	REV
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USER: odurosano
 Default
 *****SYTIME*****
 ... \DGN\CVL-UT\SOC3-UC2-0012.040



SEE DWG No. UC2-0012
MATCH LINE SOC-3 SB STA 102+00.00

MATCH LINE SOC-3 SB STA 110+00.00
SEE DWG No. UC2-0014



SCALE (IN FEET)
0 20 40 80

NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

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CONTRACT SHEET No. 74 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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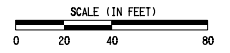
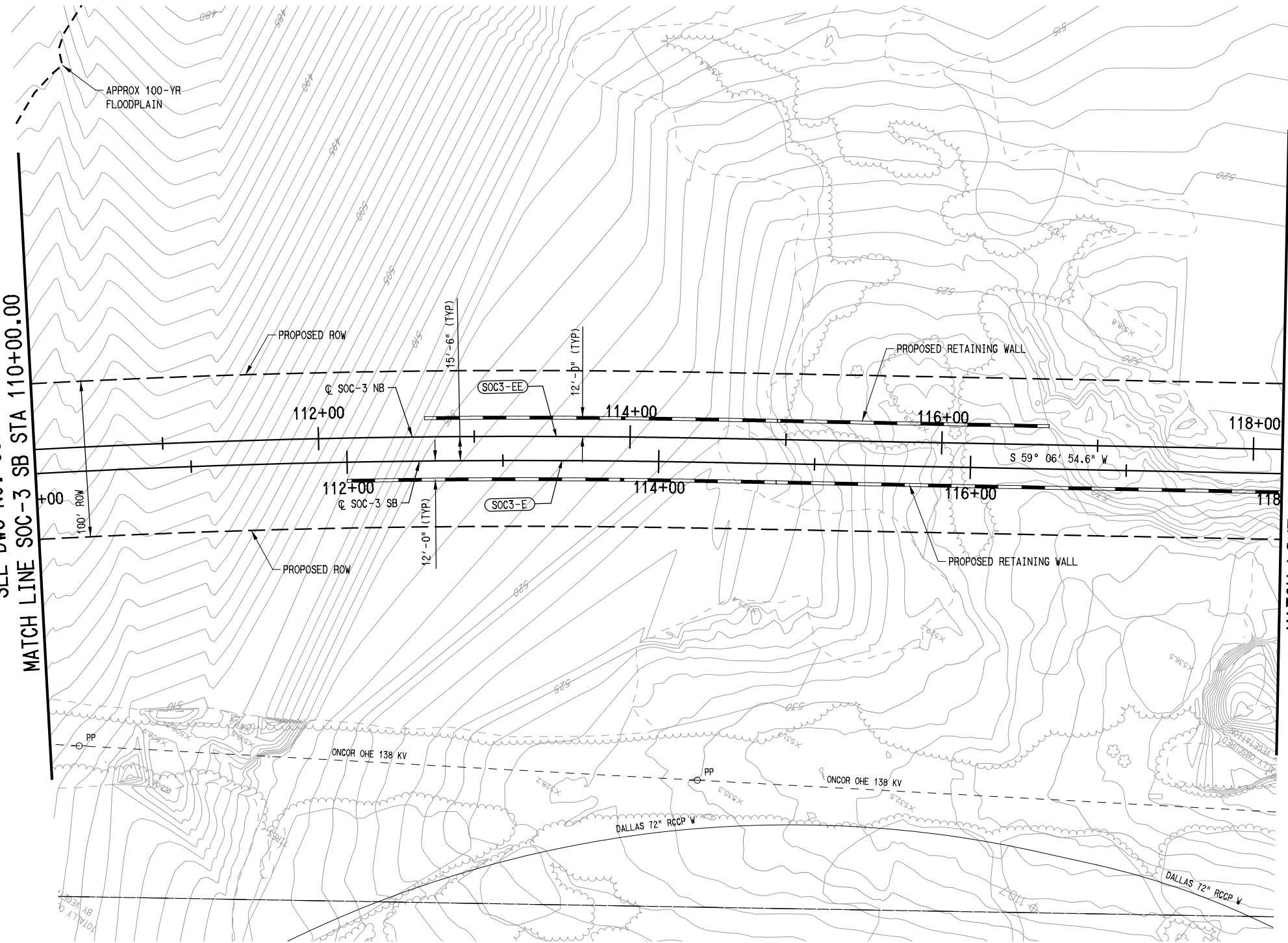
SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**EXISTING UTILITY COMPOSITE
STA 102+00.00 TO STA 110+00.00**

CONTRACT	DWG No.	UC2-0013	REV
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USER: odurosawo
Default
\$\$\$\$SYTIME\$\$\$\$
... \DGN\CVL-UT\SOC3-UC2-0013.040



- NOTES:
- SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0013
MATCH LINE SOC-3 SB STA 110+00.00

MATCH LINE SOC-3 SB STA 118+00.00
SEE DWG No. UC2-0015

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PRELIMINARY ENGINEERING 5% DESIGN

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URS Corporation is responsible for all drainage and floodstudy linework.

CONTRACT SHEET No. 75 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

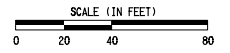
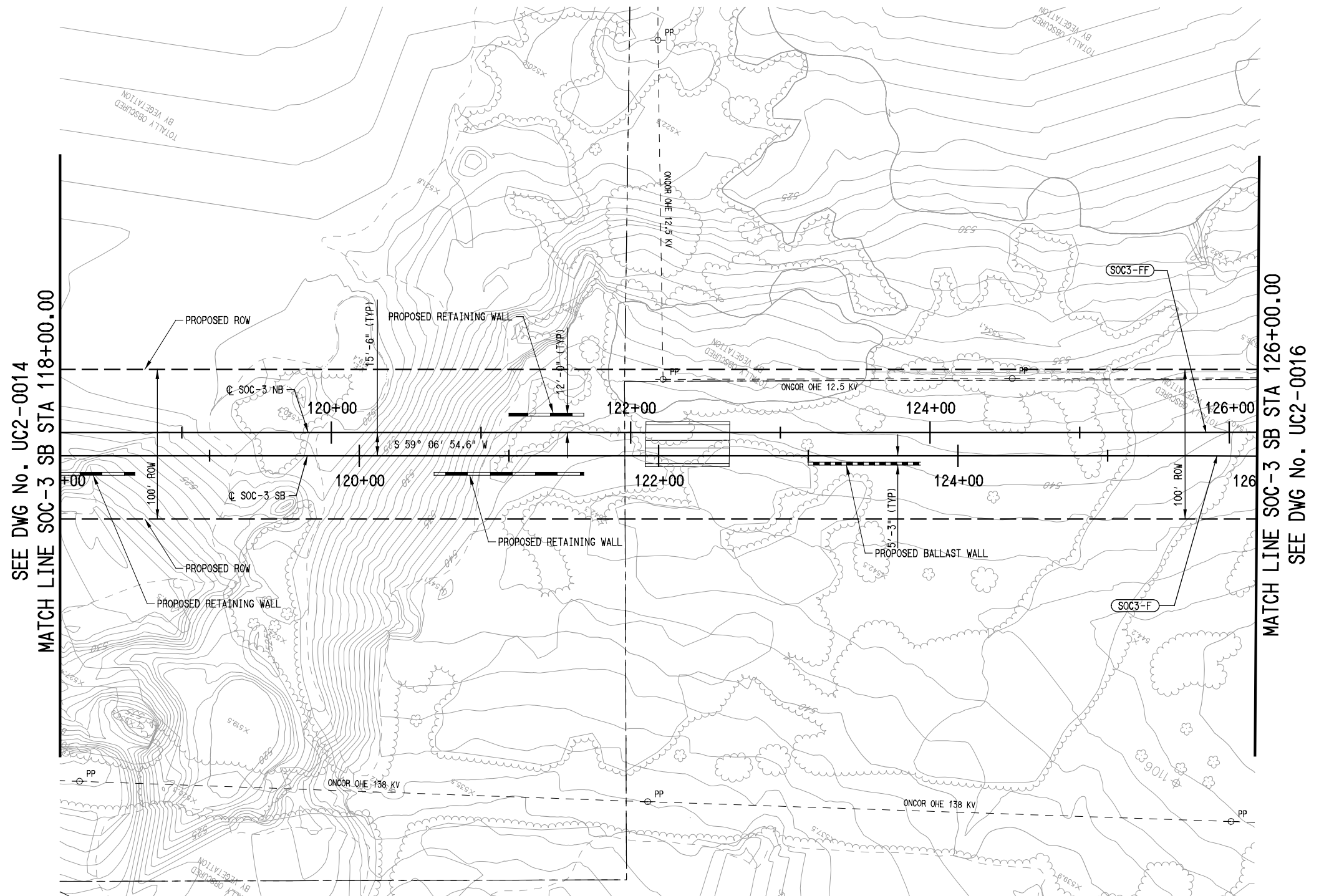
CAES

CONTRACT DWG No. UC2-0014

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

EXISTING UTILITY COMPOSITE
STA 110+00.00 TO STA 118+00.00

USER: odurosawo
Default
 *****SYTIME*****
 ... \DGN\CVL-UT\SOC3-UC2-0014.040



- NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0014
MATCH LINE SOC-3 SB STA 118+00.00

MATCH LINE SOC-3 SB STA 126+00.00
SEE DWG No. UC2-0016

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CONTRACT SHEET No. 76 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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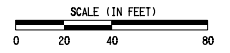
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SCALE	1" = 40'
DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

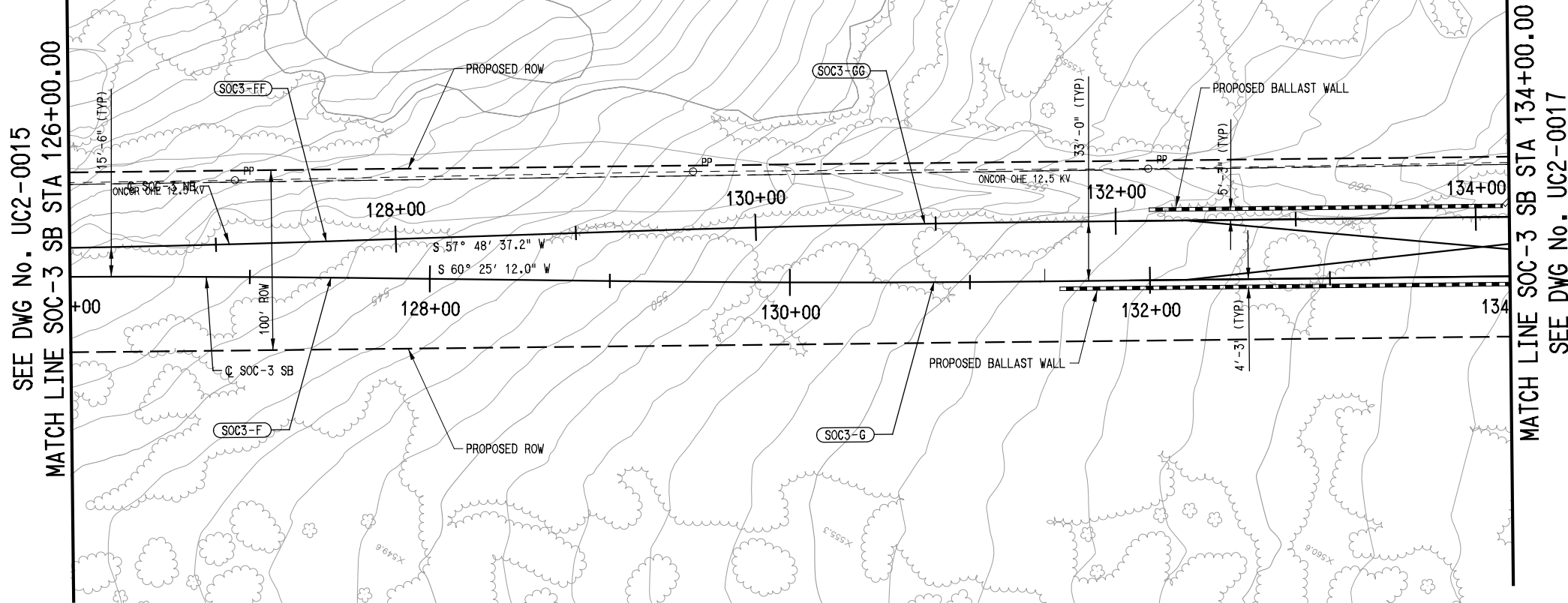
**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3**
 EXISTING UTILITY COMPOSITE
 STA 118+00.00 TO STA 126+00.00

CONTRACT DWG No. UC2-0015 REV

USER: odurosawo
 Default



NOTES:
1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.



SEE DWG No. UC2-0015

MATCH LINE SOC-3 SB STA 134+00.00
SEE DWG No. UC2-0017

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CONTRACT SHEET No. 77 OF 79

Table with columns: REV, AMEND, CR, DATE, DESCRIPTION, BY, ENG, CHK, APP

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CIVIL ENGINEERING & LAND SURVEYING
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SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION TBPE ID #F-3162

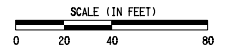
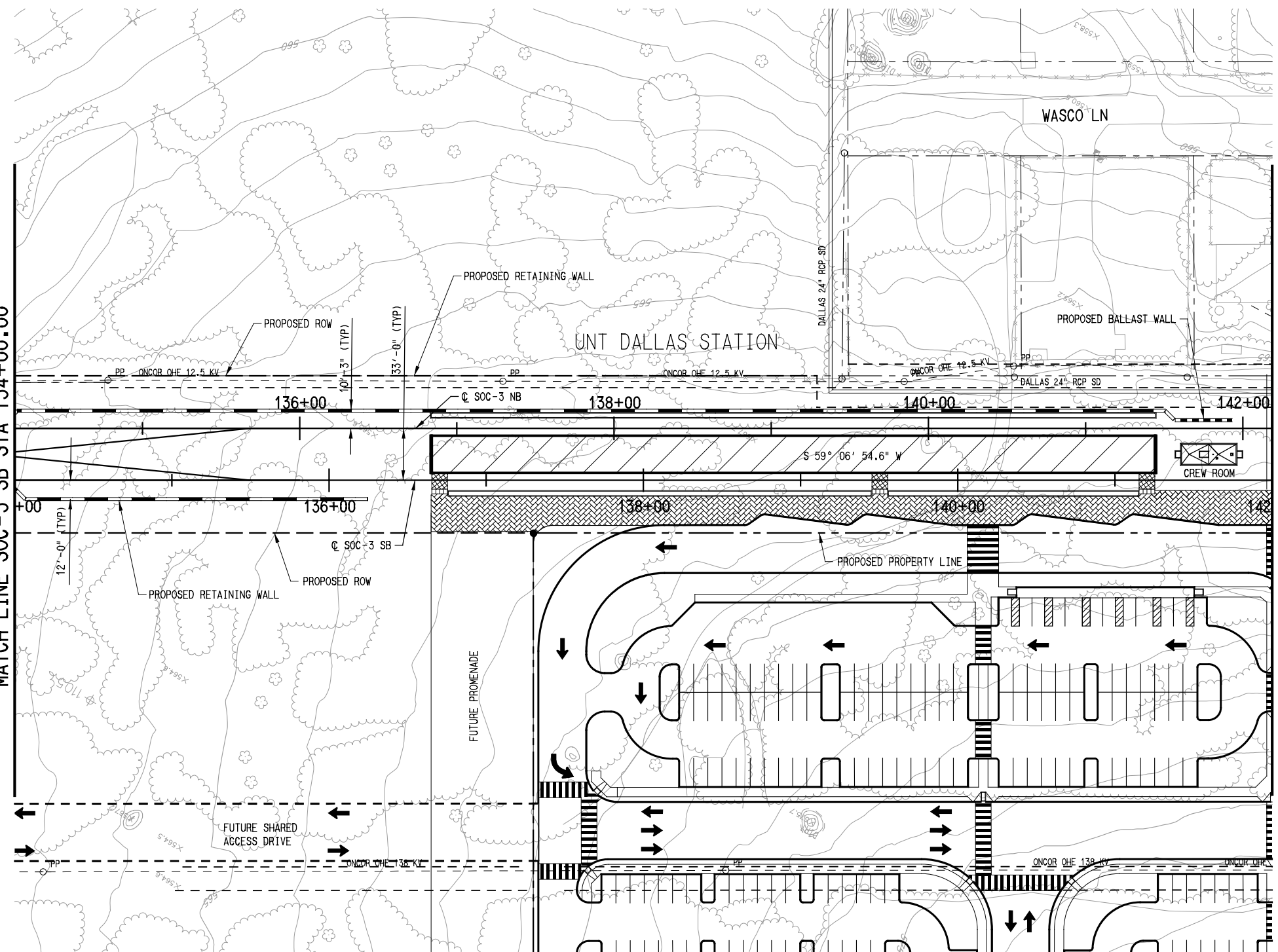
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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
EXISTING UTILITY COMPOSITE
STA 126+00.00 TO STA 134+00.00
CONTRACT DWG No. UC2-0016 REV

Vertical text on the left margin: USER: odurosowo Default



NOTES:
 1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0016
MATCH LINE SOC-3 SB STA 134+00.00

MATCH LINE SOC-3 SB STA 142+00.00
SEE DWG No. UC2-0018

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CONTRACT SHEET No. 78 OF 79

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 CIVIL ENGINEERING & LAND SURVEYING


Transportation • Municipal • Land Development

4141 Blue Lake Circle, Suite 133
 Dallas, TX 75244
 972.392.9092 Office
 972.392.9192 Fax
 www.criadoassociates.com
 Firm No. F-4373

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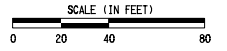
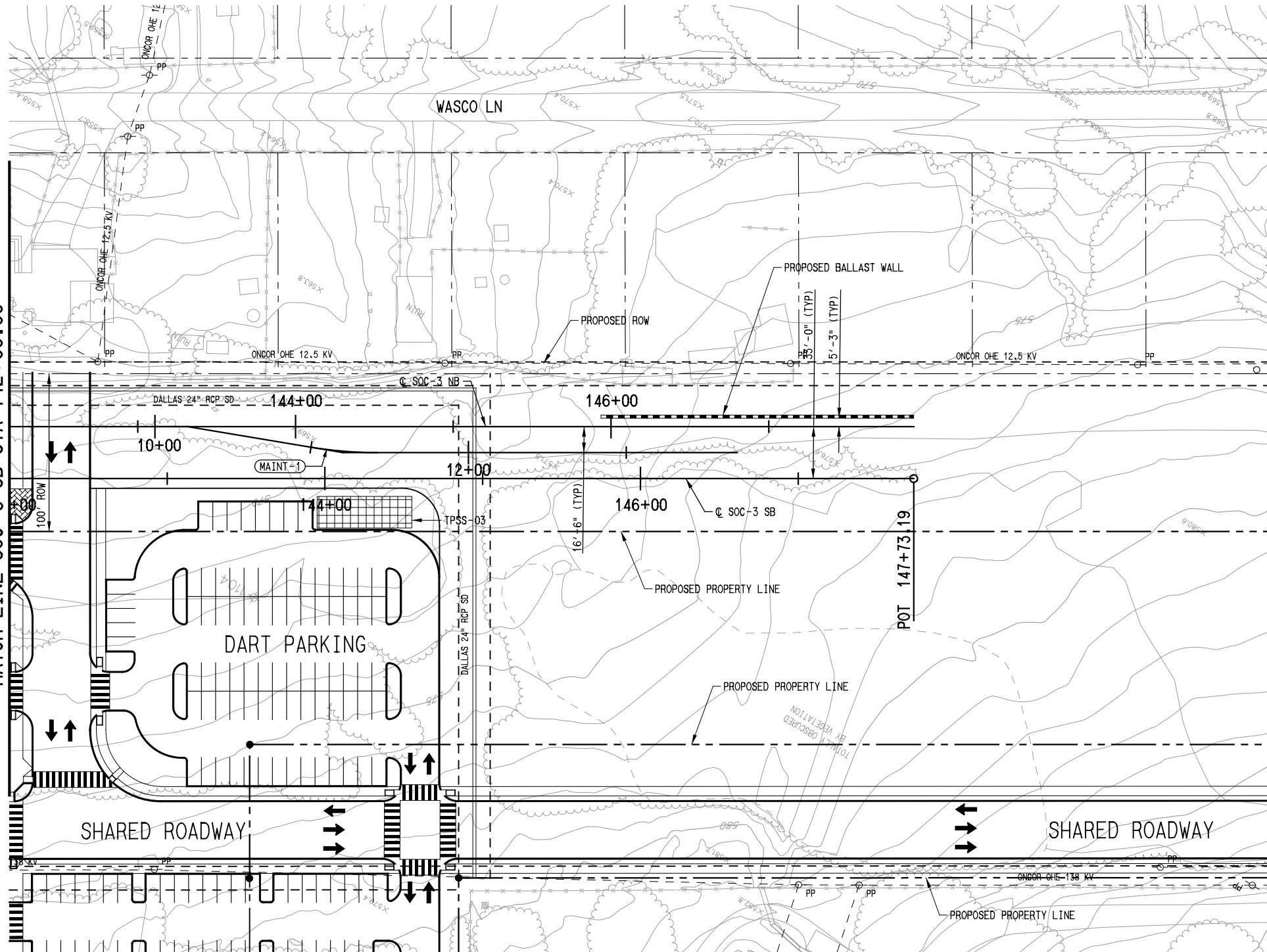
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DRAWN	H. GARCIA
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	08/03/2012

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3**

**EXISTING UTILITY COMPOSITE
 STA 134+00.00 TO STA 142+00.00**

CONTRACT	DWG No.	UC2-0017	REV
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USER: odurosawo
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- NOTES:**
- 1. SEE DWG No. UC2-0001 FOR ADDITIONAL NOTES.

SEE DWG No. UC2-0017
MATCH LINE SOC-3 SB STA 142+00.00

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DESIGNED	O. DUROSAWO
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**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

EXISTING UTILITY COMPOSITE
STA 142+00.00 TO END

CONTRACT	DWG No.	UC2-0018	REV
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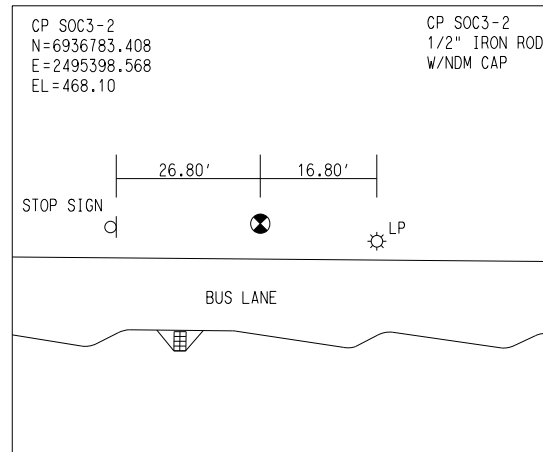
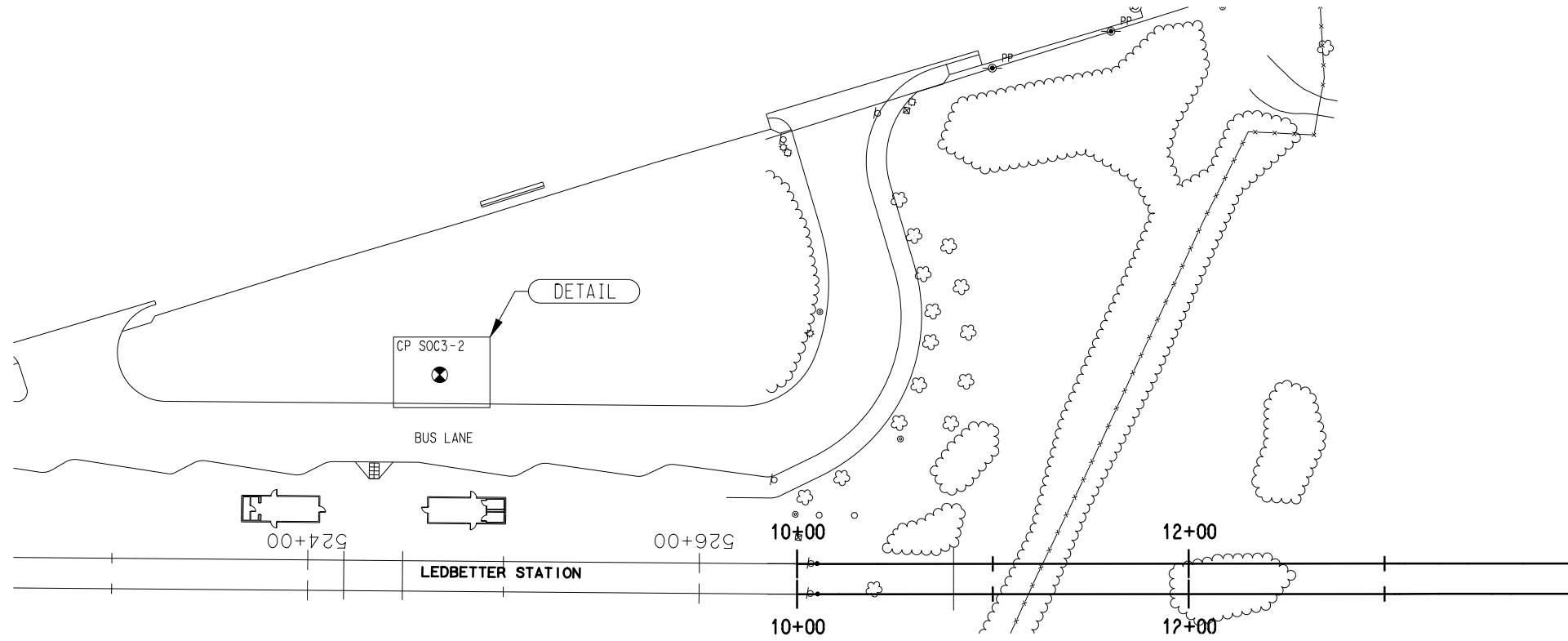
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USER: odurosawo
Default



NOTE:

1. COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, U.S. SURVEY FOOT AND CONVERTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.000136506.



CONTROL POINT DETAIL
CP SOC3-2
NOT TO SCALE

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CONTRACT SHEET No. 1 OF 6

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
HORIZONTAL AND VERTICAL CONTROL

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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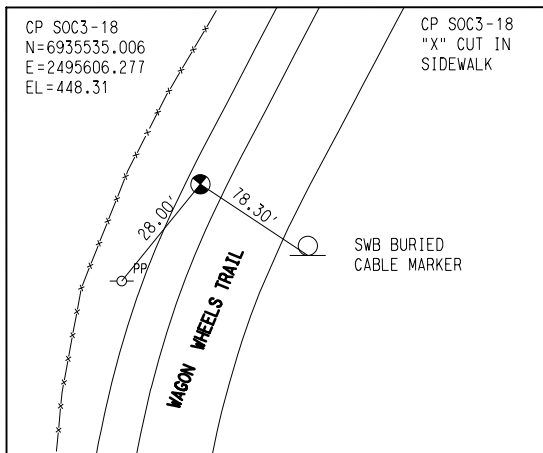
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SCALE	AS SHOWN
DRAWN	MLB
DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

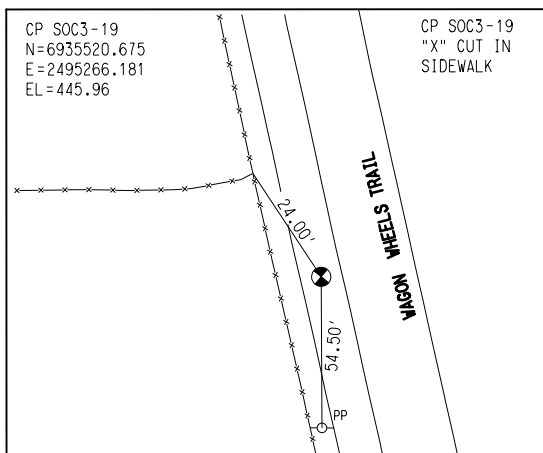
CONTRACT	DWG No.	REV
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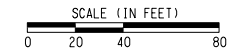
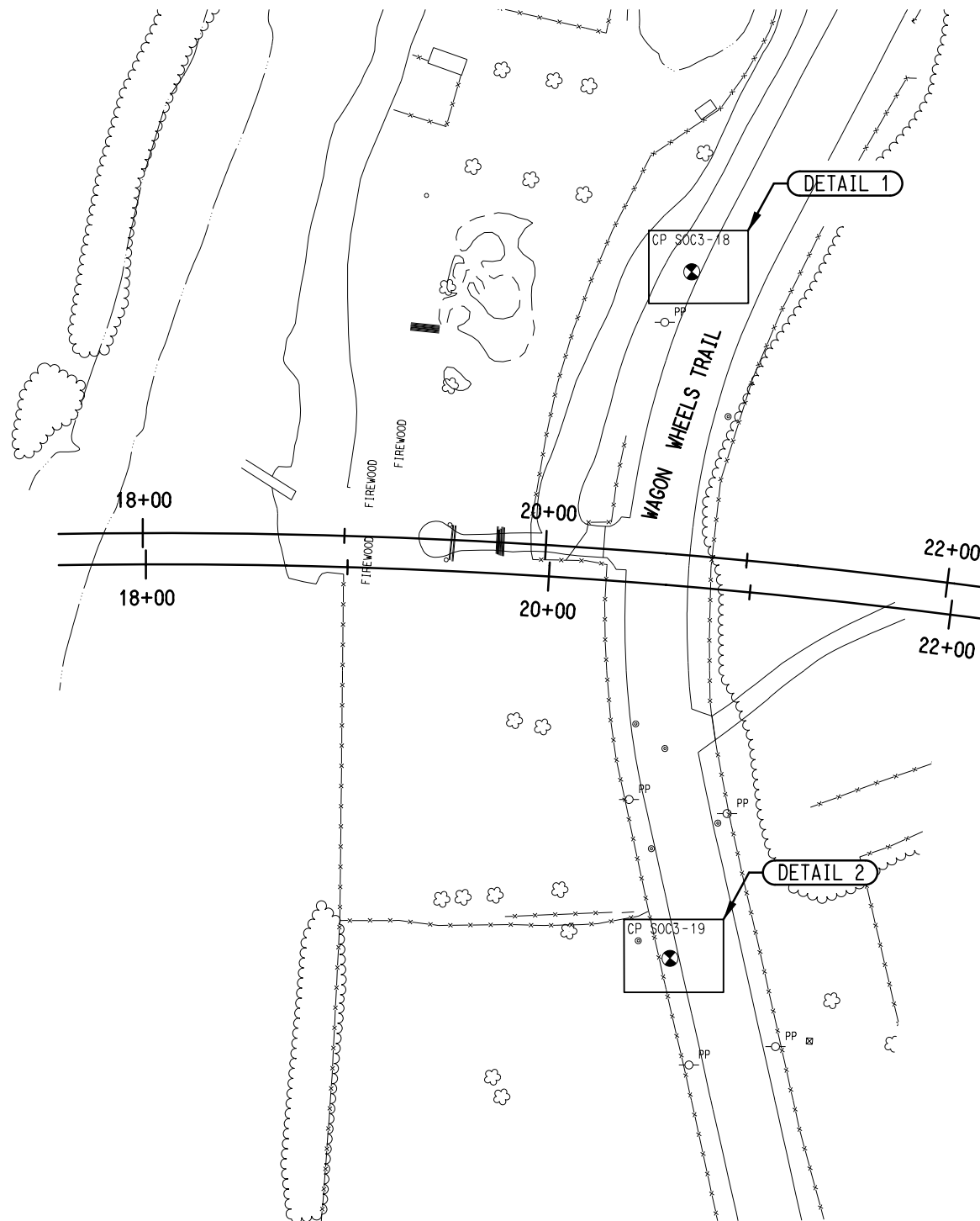
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CONTROL POINT DETAIL 1
CP SOC3-18 NOT TO SCALE



CONTROL POINT DETAIL 2
CP SOC3-19 NOT TO SCALE



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CONTRACT SHEET No. 2 OF 6

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
HORIZONTAL AND VERTICAL CONTROL

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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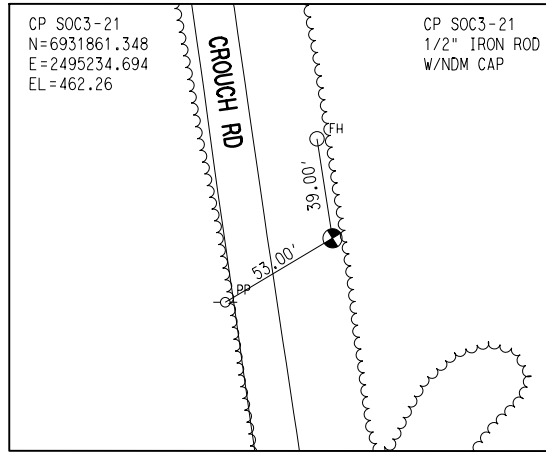
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CONTRACT	DWG No.	REV
	RC1-0002	

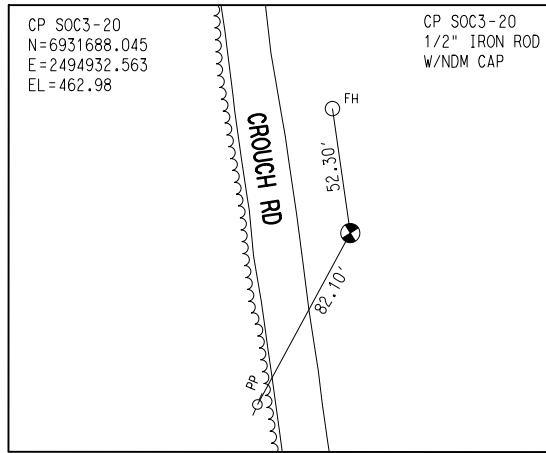
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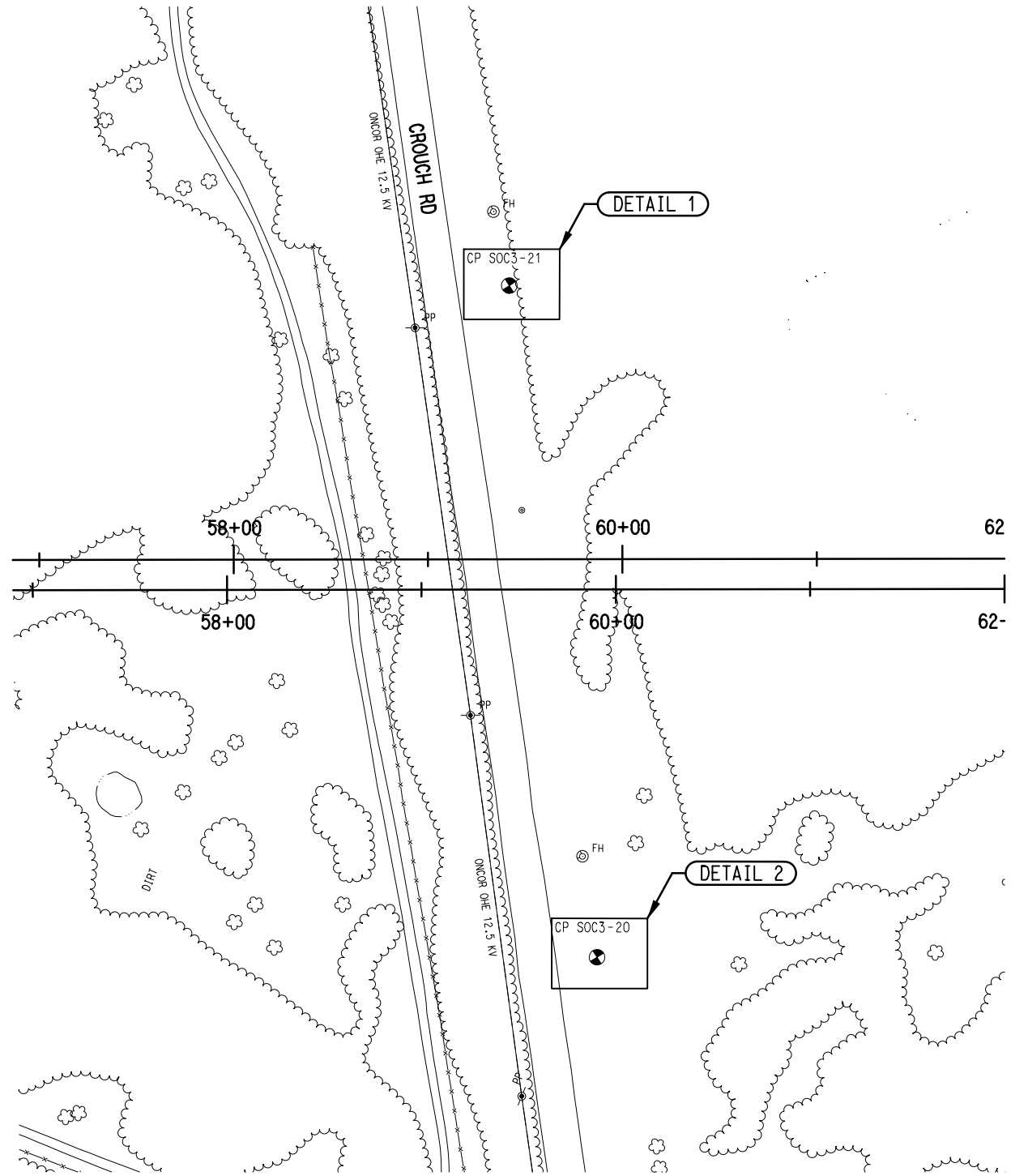
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CONTROL POINT DETAIL 1
CP SOC3-21
NOT TO SCALE



CONTROL POINT DETAIL 2
CP SOC3-20
NOT TO SCALE



SCALE (IN FEET)
0 20 40 80

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
HORIZONTAL AND VERTICAL CONTROL

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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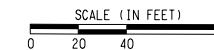
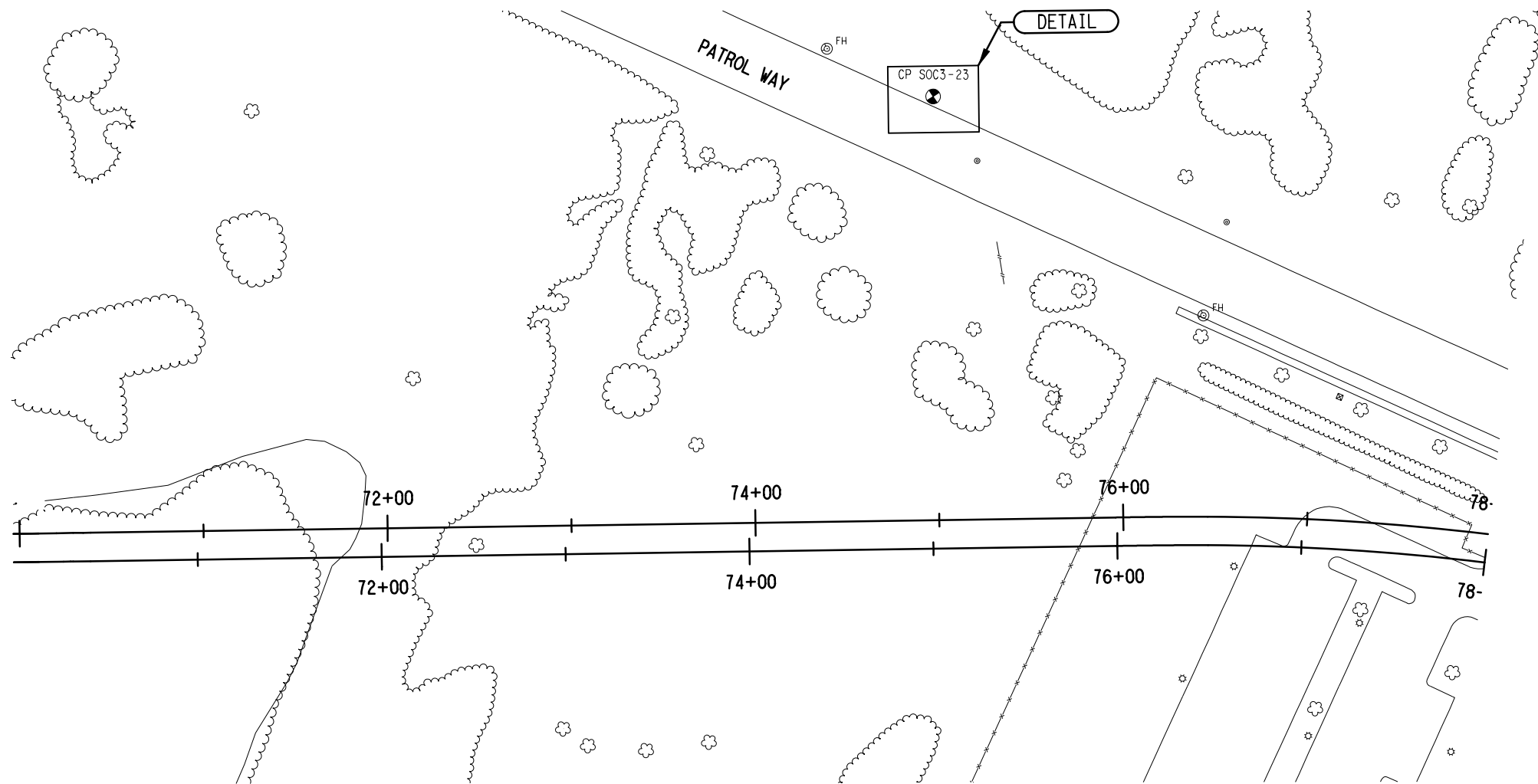
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IN CHARGE	JLM
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CONTRACT	DWG No. RC1-0003	REV
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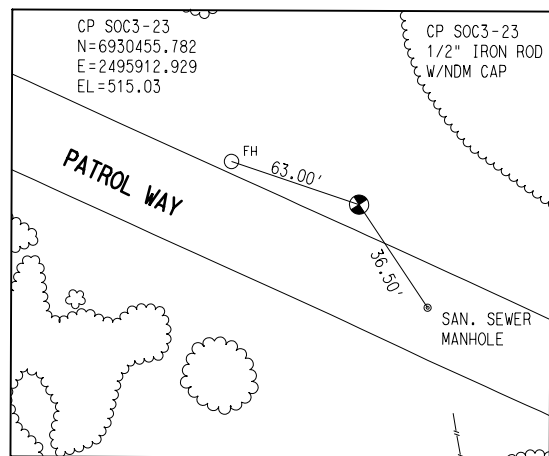
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NOTE:

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\$\$\$\$SYTIME\$\$\$\$
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CONTROL POINT DETAIL
CP SOC3-23
NOT TO SCALE

\$\$\$\$
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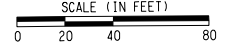
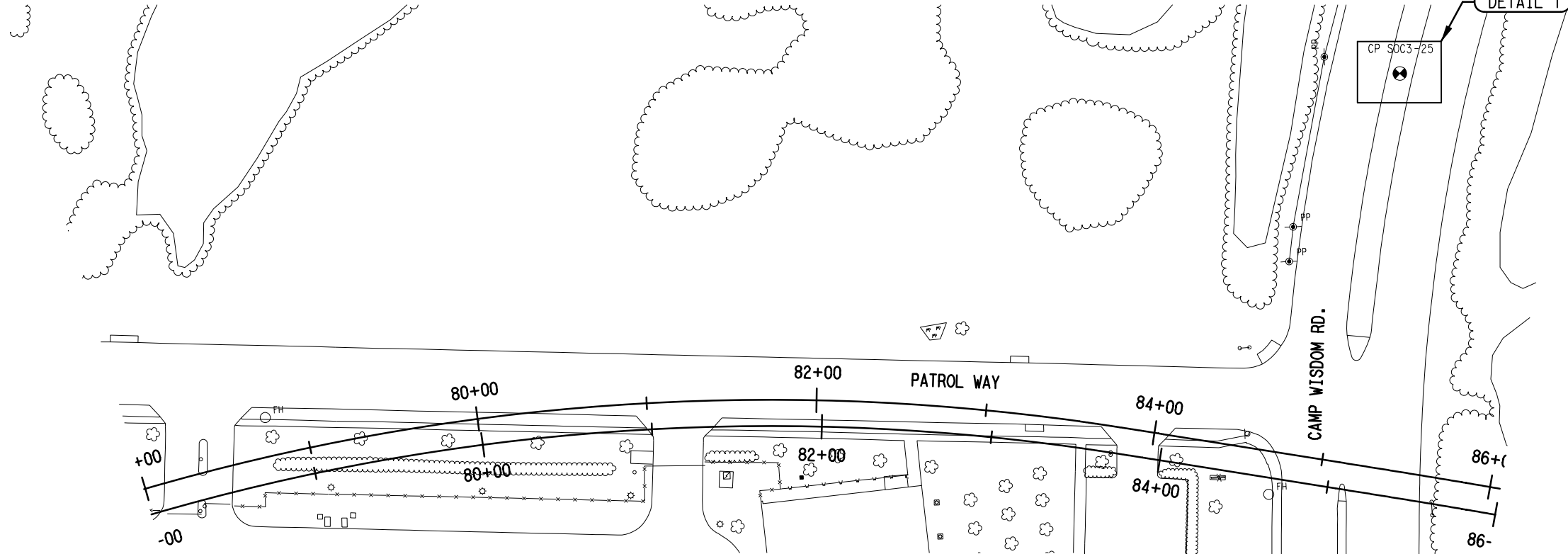
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DESIGNED	
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DATE	14 SEPT 12

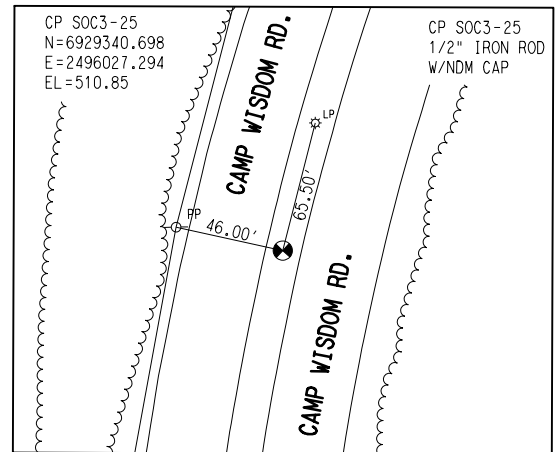
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LINE SECTION SOC-3
HORIZONTAL AND VERTICAL CONTROL**

CONTRACT	DWG No.	REV
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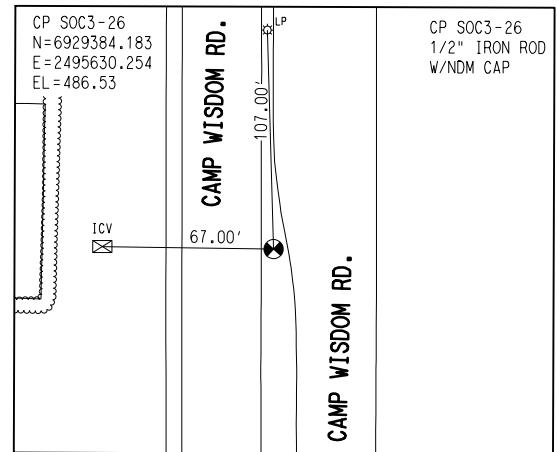
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CONTROL POINT DETAIL 1
 CP SOC3-25 NOT TO SCALE



CONTROL POINT DETAIL 2
 CP SOC3-26 NOT TO SCALE

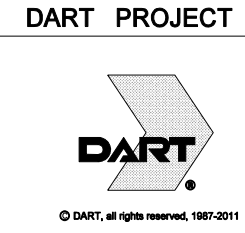
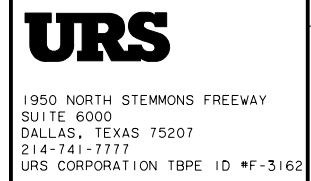
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LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 HORIZONTAL AND VERTICAL CONTROL

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

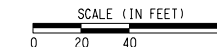
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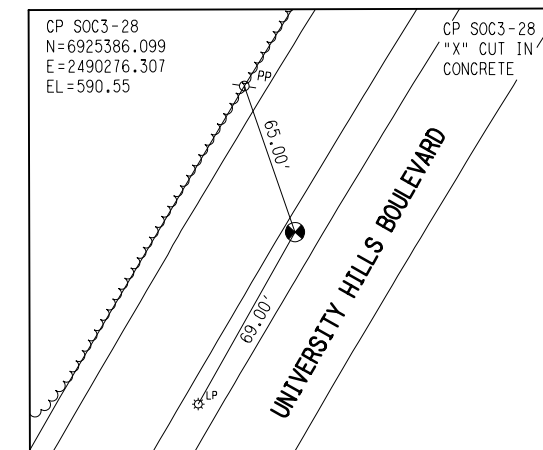
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DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
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CONTRACT DWG No. RC1-0005 REV

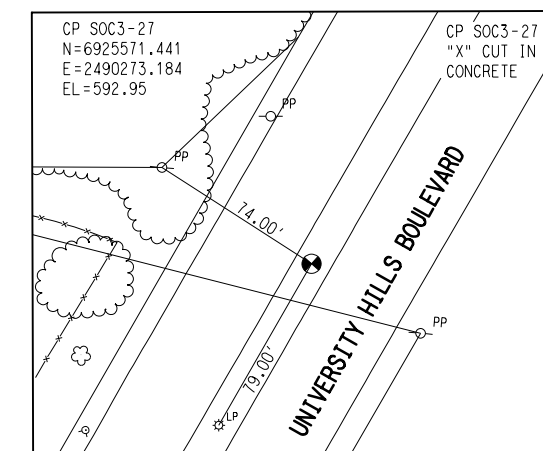
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CONTROL POINT DETAIL 1
 CP SOC3-28 NOT TO SCALE



CONTROL POINT DETAIL 2
 CP SOC3-27 NOT TO SCALE

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 DALLAS, TEXAS 75207
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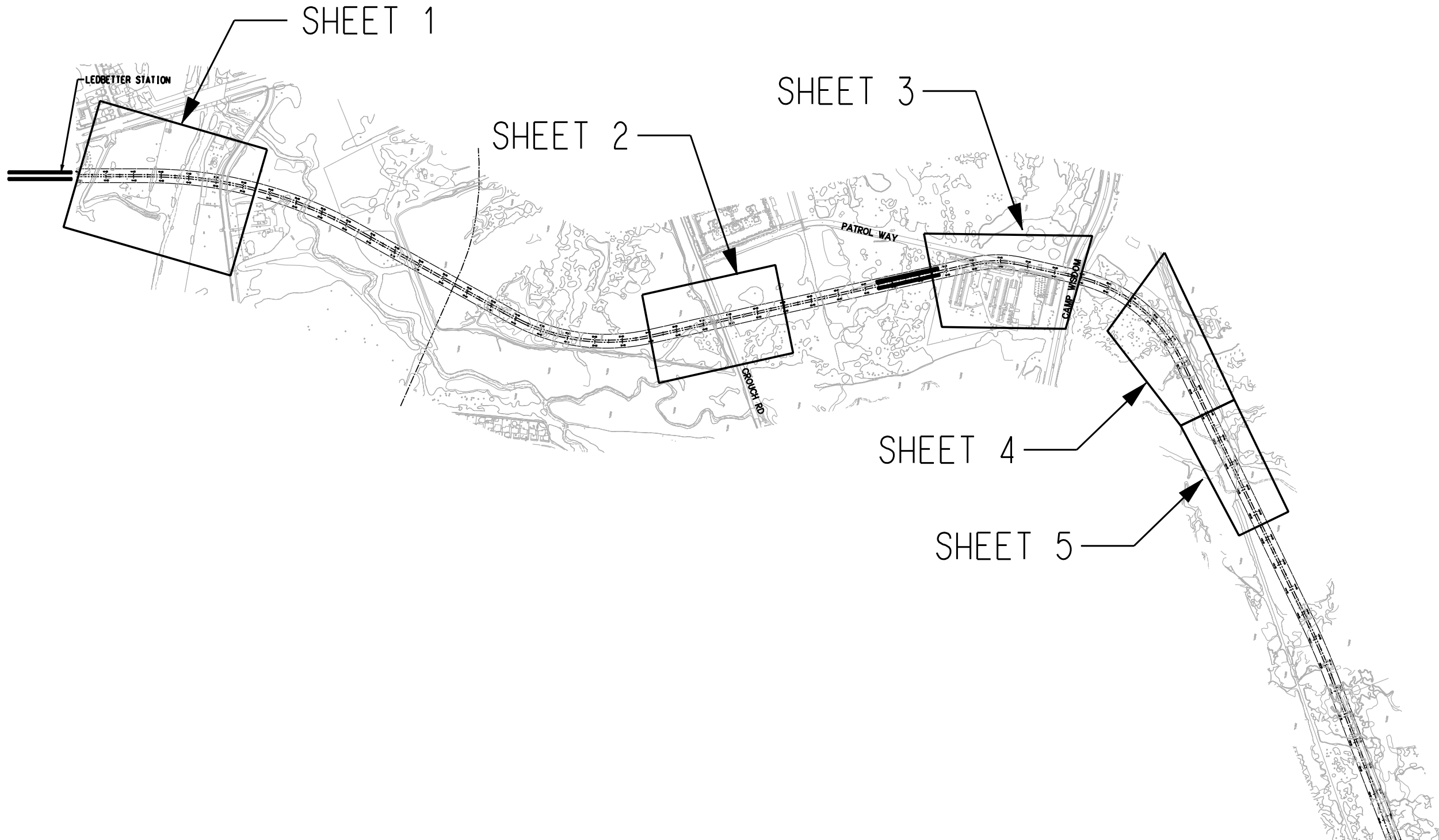
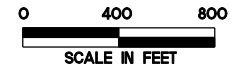
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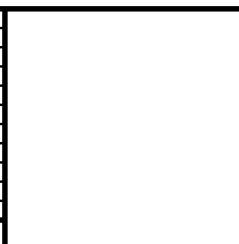
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DESIGNED	
CHECKED	JLM
IN CHARGE	JLM
DATE	14 SEPT 12

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 HORIZONTAL AND VERTICAL CONTROL**

CONTRACT DWG No. **RC1-0006** REV



REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP



LINA T. RAMEY & ASSOCIATES, INC.
 1349 Empire Central, Suite 900
 Dallas, Texas 75247
 T(214)979-1144 - F(214)979-2480
 TBPE FIRM #782



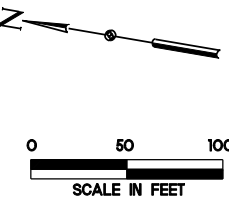
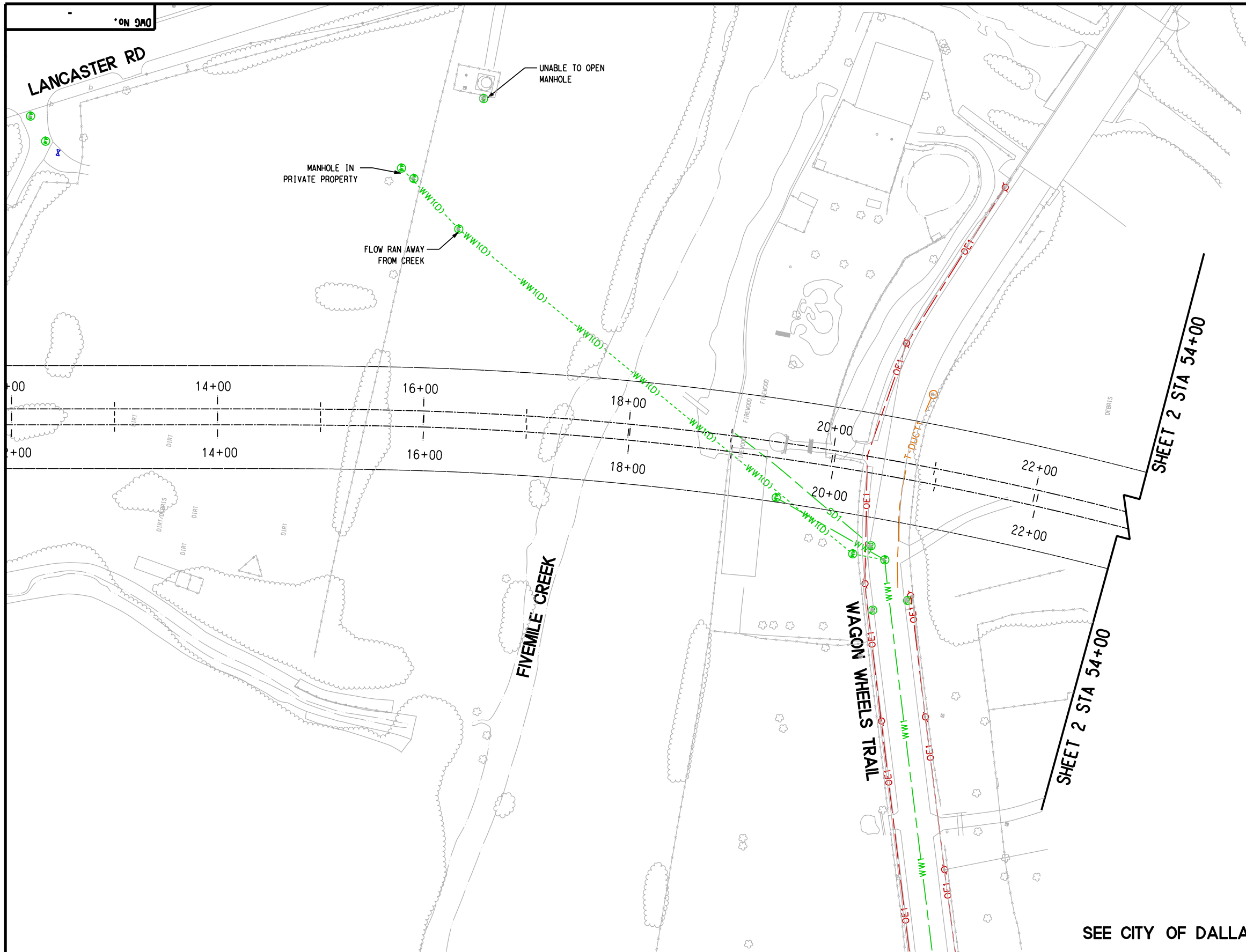
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SCALE	NO SCALE
DRAWN	J. AREVALO
DESIGNED	
CHECKED	J. MURPHY
IN CHARGE	
DATE	15 MAY 12

CONTRACT SHEET No. 1 OF 1

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC3
 OVERALL UTILITY MAP**

CONTRACT	DWG No.	REV
		0



LEGEND

- ELECTRIC --- E1 --- ONCOR
- OVERHEAD ELECTRIC --- OE1 --- ONCOR
- OVERHEAD ELECTRIC/CTV --- OE1/CTV1 --- ONCOR/TIMEWARNER
- TELEPHONE --- T1 --- ATT
- TDUCT --- T-DUCT1 --- ATT
- WASTE WATER --- WW1 --- CITY OF DALLAS
- WATER --- W1 --- CITY OF DALLAS
- UNKNOWN --- UNK --- UNKNOWN
- STORM SEWER --- SD1 --- CITY OF DALLAS
- CTV --- CTV1 --- TIMEWARNER
- ⊙ POWER POLE
- ⊕ WATER VALVE
- ⊕ WASTE WATER MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ WATER MANHOLE

QUALITY LEVEL LEGEND

- WW1 --- QUALITY LEVEL "B"
- WW1(D) --- QUALITY LEVEL "D"
- WW1(C) --- QUALITY LEVEL "C"
- ⊕ WW1 --- QUALITY LEVEL "A"

TYPICAL FOR ALL UTILITIES

Quality Level "D":
Information derived from existing records and/or oral recollections.

Quality Level "C":
Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to quality level D information.

Quality Level "B":
Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities (aka Designating).

Quality Level "A":
Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point (aka Locating).

SEE CITY OF DALLAS ASBUILTS

CONTRACT SHEET No. 1 OF 5

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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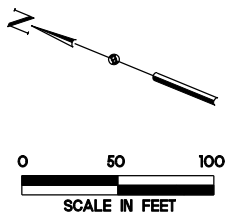
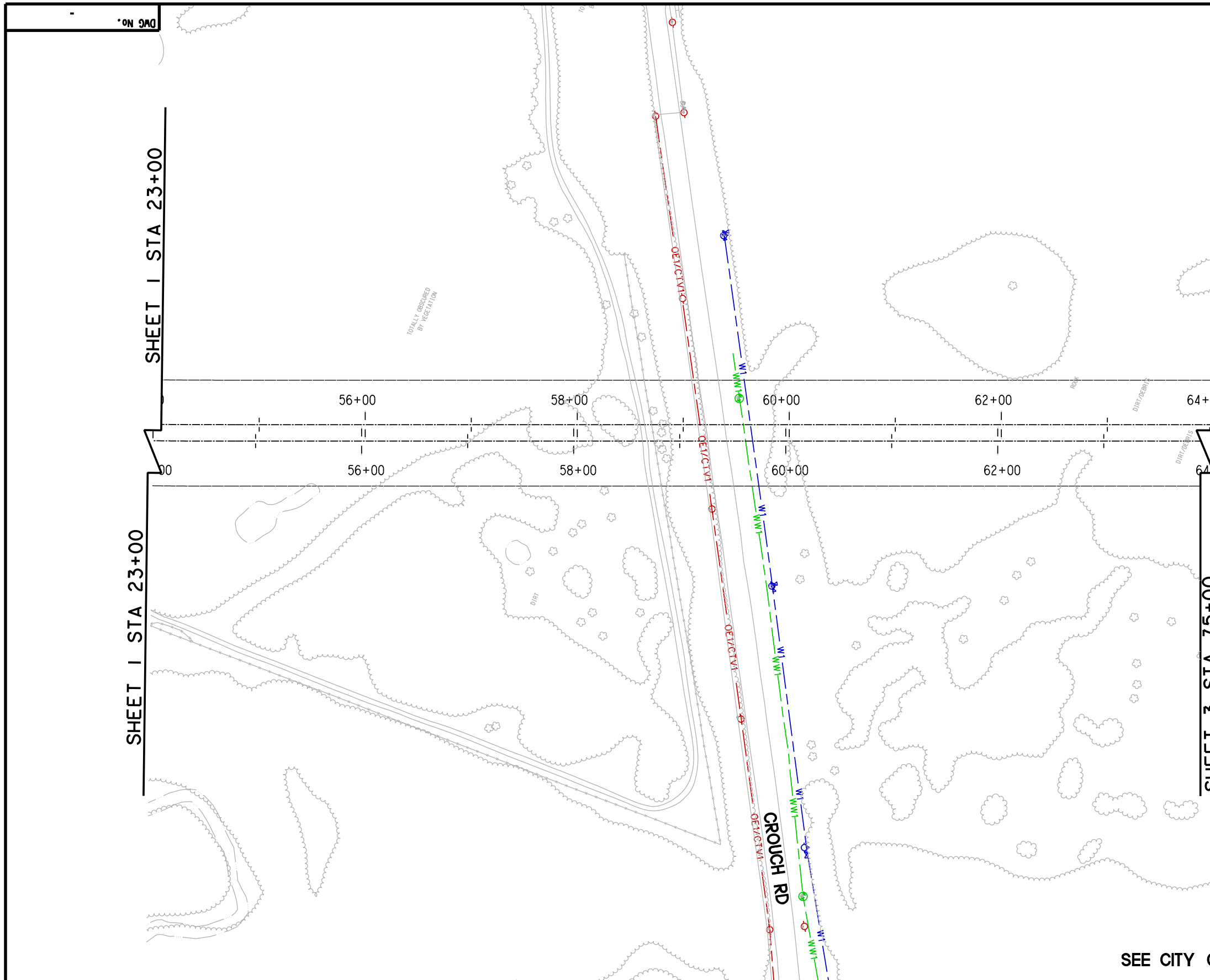
DART PROJECT

SCALE	NO SCALE
DRAWN	J. AREVALO
DESIGNED	
CHECKED	J. MURPHY
IN CHARGE	
DATE	15 MAY 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC3
 BEGIN PROJECT TO STATION 23+00

CONTRACT	DWG No.	REV
		0

V:\... \Present\101\on\11111111.dwg



LEGEND

- ELECTRIC — E1 — ONCOR
- OVERHEAD ELECTRIC — OE1 — ONCOR
- OVERHEAD ELECTRIC/CTV — OE1/CTV1 — ONCOR/TIMEWARNER
- TELEPHONE — T1 — ATT
- T DUCT — T-DUCT1 — ATT
- WASTE WATER — WW1 — CITY OF DALLAS
- WATER — W1 — CITY OF DALLAS
- UNKNOWN — UNK — UNKNOWN
- STORM SEWER — SD1 — CITY OF DALLAS
- CTV — CTV1 — TIMEWARNER
- ⊙ POWER POLE
- ⊕ WATER VALVE
- ⊕ WASTE WATER MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ WATER MANHOLE

QUALITY LEVEL LEGEND

- WW1 — QUALITY LEVEL "B"
- WW1(D) --- QUALITY LEVEL "D"
- WW1(C) --- QUALITY LEVEL "C"
- WW1 ⊕ — QUALITY LEVEL "A"

TYPICAL FOR ALL UTILITIES
Quality Level "D":
 Information derived from existing records and/or oral recollections.
Quality Level "C":
 Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to quality level D information.
Quality Level "B":
 Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities (aka Designating).
Quality Level "A":
 Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point (aka Locating).

SHEET 1 STA 23+00

SHEET 1 STA 23+00

SHEET 3 STA 75+00

SHEET 3 STA 75+00

SEE CITY OF DALLAS ASBULTS

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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 1349 Empire Central, Suite 900
 Dallas, Texas 75247
 T(214)979-1144 - F(214)979-2480
 TBPE FIRM #782

DART PROJECT

SCALE	NO SCALE
DRAWN	J. AREVALO
DESIGNED	
CHECKED	J. MURPHY
IN CHARGE	
DATE	15 MAY 12

CONTRACT SHEET No. 2 OF 5

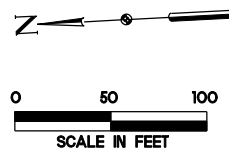
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC3
STATION 54+00 TO 64+00

CONTRACT	DWG No.	REV
		0

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DWG No.

TOTALLY BY VE



LEGEND

- ELECTRIC - E1 - ONCOR
- OVERHEAD ELECTRIC - OE1 - ONCOR
- OVERHEAD ELECTRIC/CTV - OE1/CTV1 - ONCOR/TIMEWARNER
- TELEPHONE - T1 - ATT
- TDUCT - T-DUCT1 - ATT
- WASTE WATER - WW1 - CITY OF DALLAS
- WATER - W1 - CITY OF DALLAS
- UNKNOWN - UNK - UNKNOWN
- STORM SEWER - SD1 - CITY OF DALLAS
- CTV - CTV1 - TIMEWARNER
- POWER POLE
- WATER VALVE
- WASTE WATER MANHOLE
- STORM SEWER MANHOLE
- WATER MANHOLE

QUALITY LEVEL LEGEND

- WW1 - QUALITY LEVEL "B"
- WW1(D) - QUALITY LEVEL "D"
- WW1(C) - QUALITY LEVEL "C"
- WW1 - QUALITY LEVEL "A"

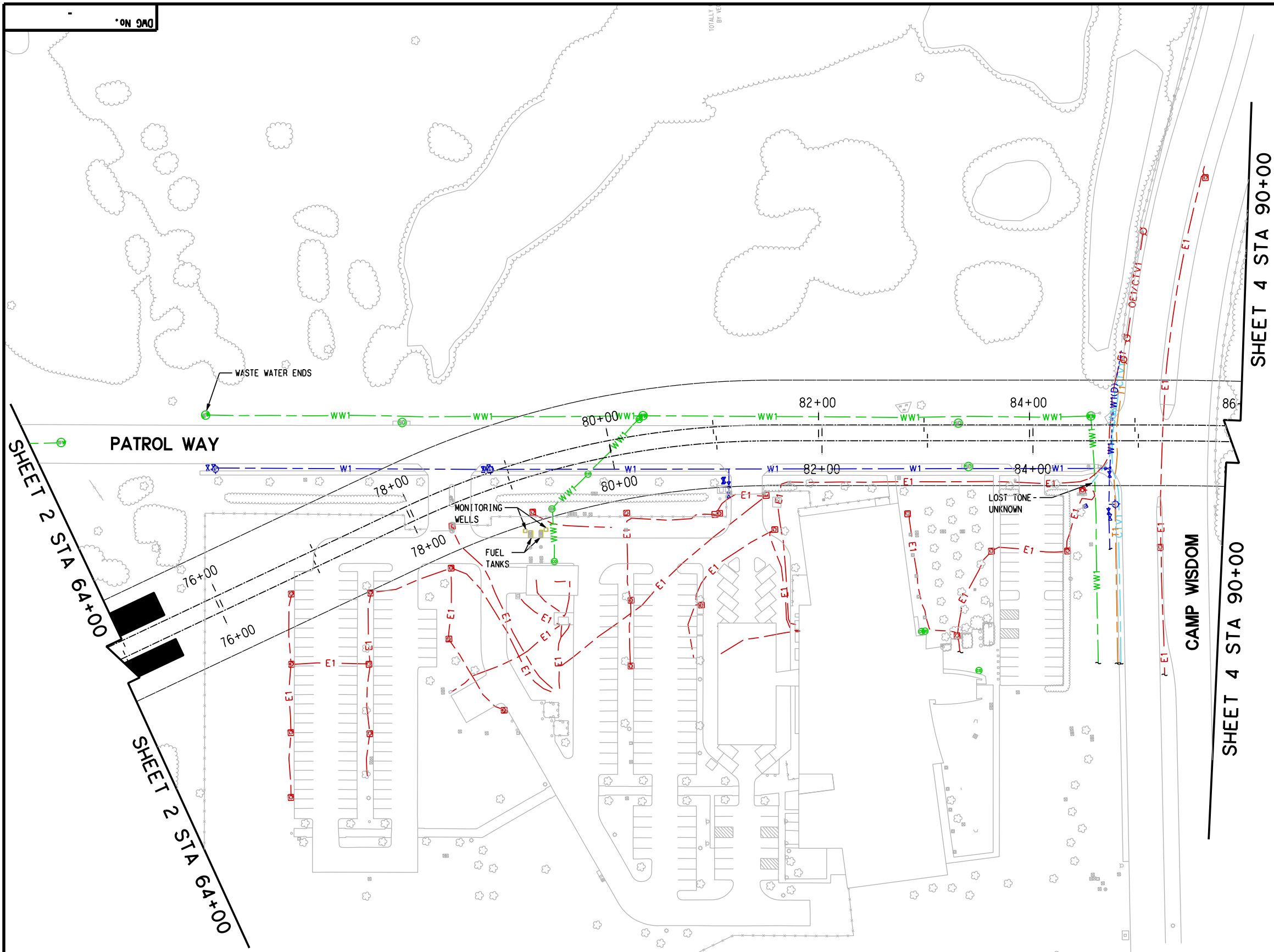
TYPICAL FOR ALL UTILITIES

Quality Level "D": Information derived from existing records and/or oral recollections.

Quality Level "C": Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to quality level D information.

Quality Level "B": Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities (aka Designating).

Quality Level "A": Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point (aka Locating).



SHEET 2 STA 64+00

SHEET 4 STA 90+00

SEE CITY OF DALLAS ASBUILTS

CONTRACT SHEET No. 3 OF 5

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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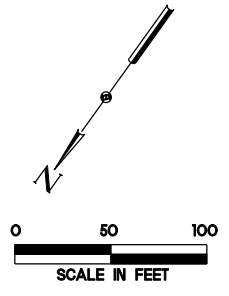
DART PROJECT

SCALE	NO SCALE
DRAWN	J. AREVALO
DESIGNED	
CHECKED	J. MURPHY
IN CHARGE	
DATE	15 MAY 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC3
STATION 75+00 TO STATION 86+00

CONTRACT DWG No. - REV 0

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LEGEND

- ELECTRIC — E1 — ONCOR
- OVERHEAD ELECTRIC — OE1 — ONCOR
- OVERHEAD ELECTRIC/CTV — OE1/CTV1 — ONCOR/TIMEWARNER
- TELEPHONE — T1 — ATT
- TDUCT — T-DUCT1 — ATT
- WASTE WATER — WW1 — CITY OF DALLAS
- WATER — W1 — CITY OF DALLAS
- UNKNOWN — UNK — UNKNOWN
- STORM SEWER — SD1 — CITY OF DALLAS
- CTV — CTV1 — TIMEWARNER
- ⊙ POWER POLE
- ⊕ WATER VALVE
- ⊕ WASTE WATER MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ WATER MANHOLE

QUALITY LEVEL LEGEND

- WW1 — QUALITY LEVEL "B"
- WW1(D) --- QUALITY LEVEL "D"
- WW1(C) --- QUALITY LEVEL "C"
- ⊕ WW1 — QUALITY LEVEL "A"

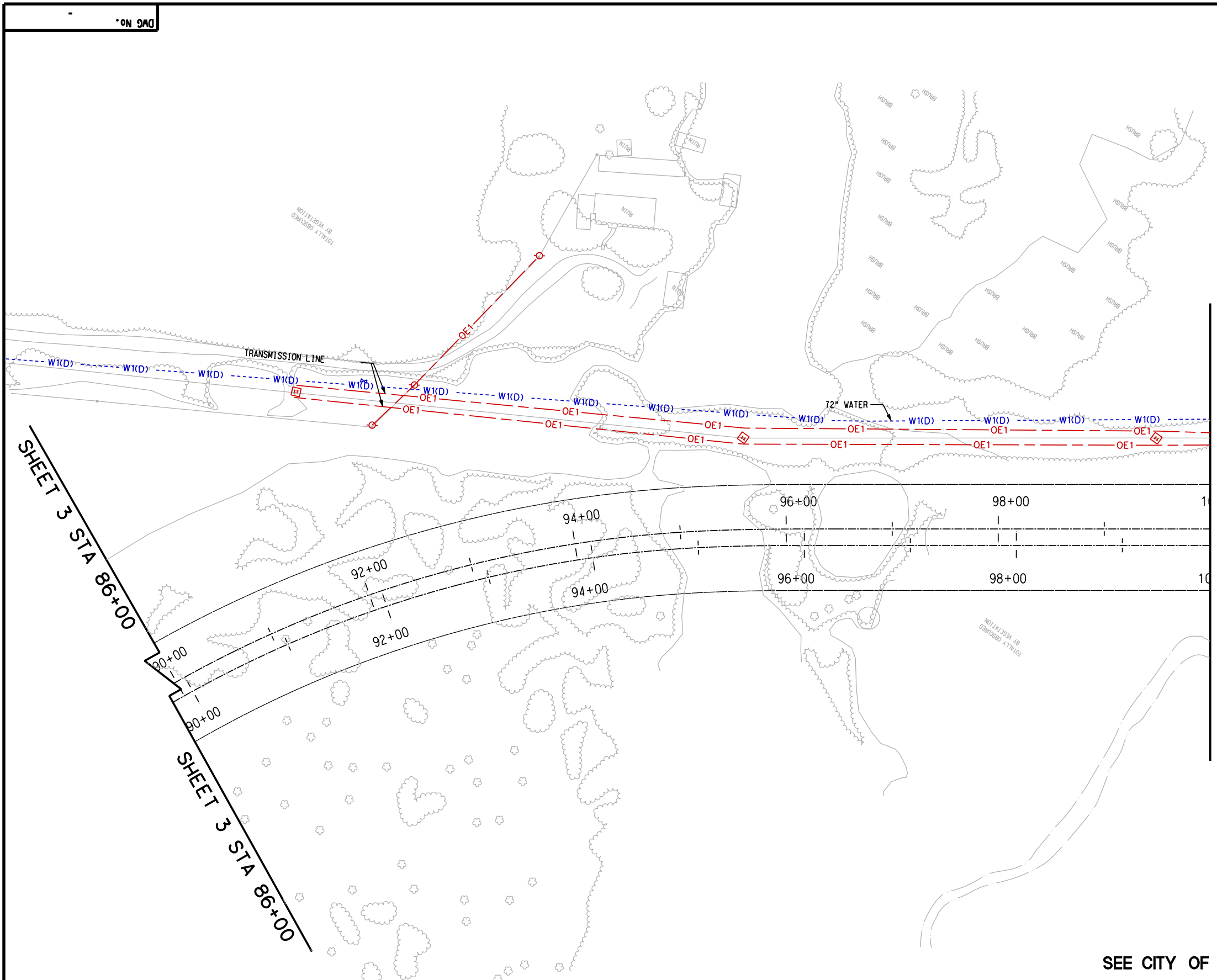
TYPICAL FOR ALL UTILITIES

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Quality Level "C":
Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to quality level D information.

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Quality Level "A":
Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point (aka Locating).



MATCHLINE STA 100+00

SEE CITY OF DALLAS ASBUILTS

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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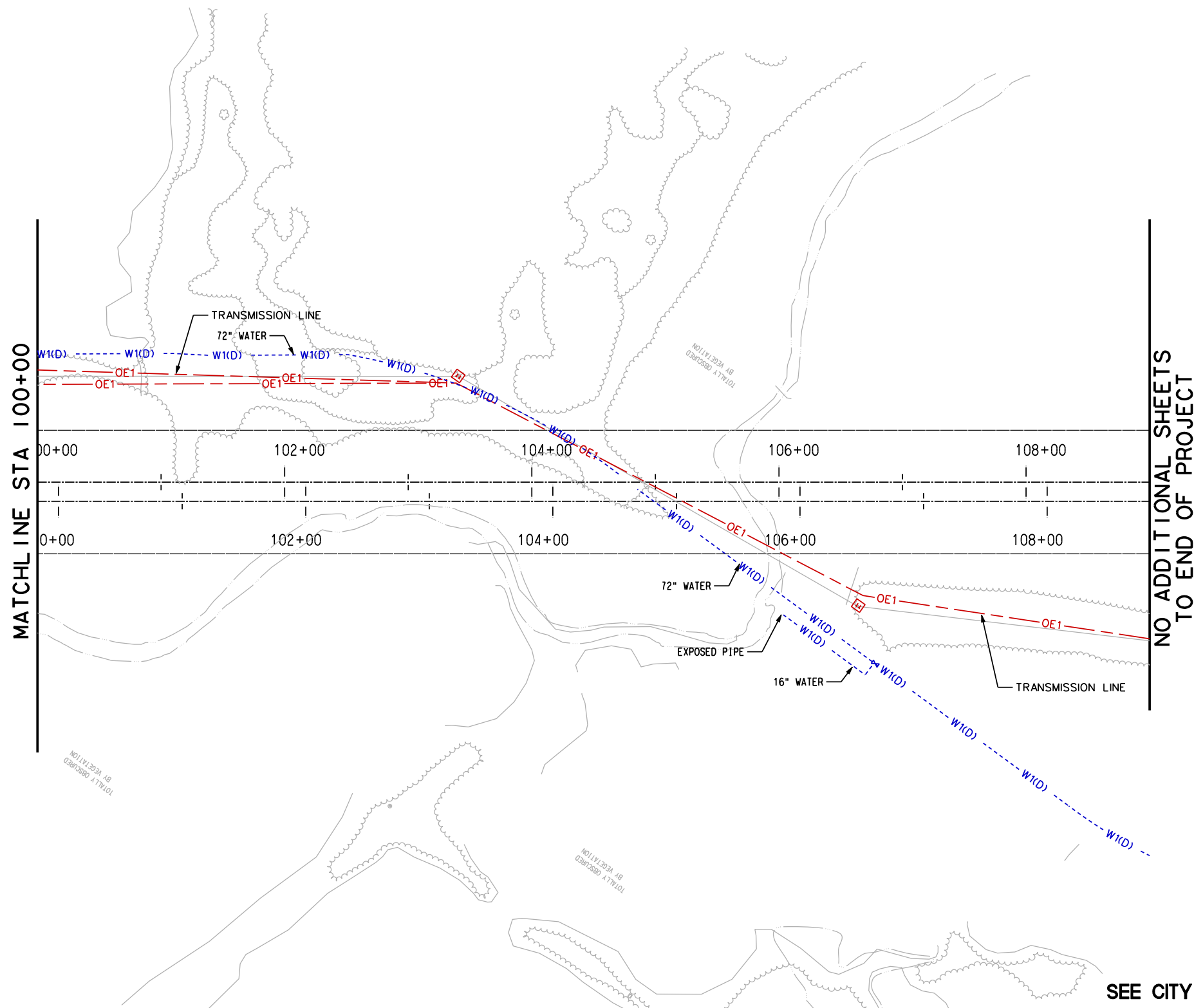
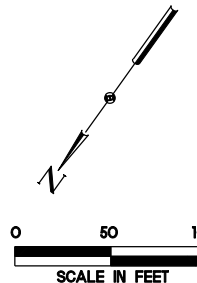
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DESIGNED
CHECKED J. MURPHY
IN CHARGE
DATE 15 MAY 12

CONTRACT	DWG No.	REV 0
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CONTRACT SHEET No. 4 OF 5

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC3
STATION 90+00 TO STATION 100+00**

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LEGEND

ELECTRIC	---	E1	---	ONCOR
OVERHEAD ELECTRIC	---	OE1	---	ONCOR
OVERHEAD ELECTRIC/CTV	---	OE1/CTV1	---	ONCOR/TIMEWARNER
TELEPHONE	---	T1	---	ATT
TDUCT	---	T-DUCT1	---	ATT
WASTE WATER	---	WW1	---	CITY OF DALLAS
WATER	---	W1	---	CITY OF DALLAS
UNKNOWN	---	UNK	---	UNKNOWN
STORM SEWER	---	SD1	---	CITY OF DALLAS
CTV	---	CTV1	---	TIMEWARNER
				POWER POLE
				WATER VALVE
				WASTE WATER MANHOLE
				STORM SEWER MANHOLE
				WATER MANHOLE

QUALITY LEVEL LEGEND

---	WW1	---	QUALITY LEVEL "B"
---	WW1(D)	---	QUALITY LEVEL "D"
---	WW1(C)	---	QUALITY LEVEL "C"
---	WW1	---	QUALITY LEVEL "A"

TYPICAL FOR ALL UTILITIES

Quality Level "D":
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Quality Level "C":
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Quality Level "A":
Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point (aka Locating).

NO ADDITIONAL SHEETS TO END OF PROJECT

SEE CITY OF DALLAS ASBUILTS

CONTRACT SHEET No. 5 OF 5

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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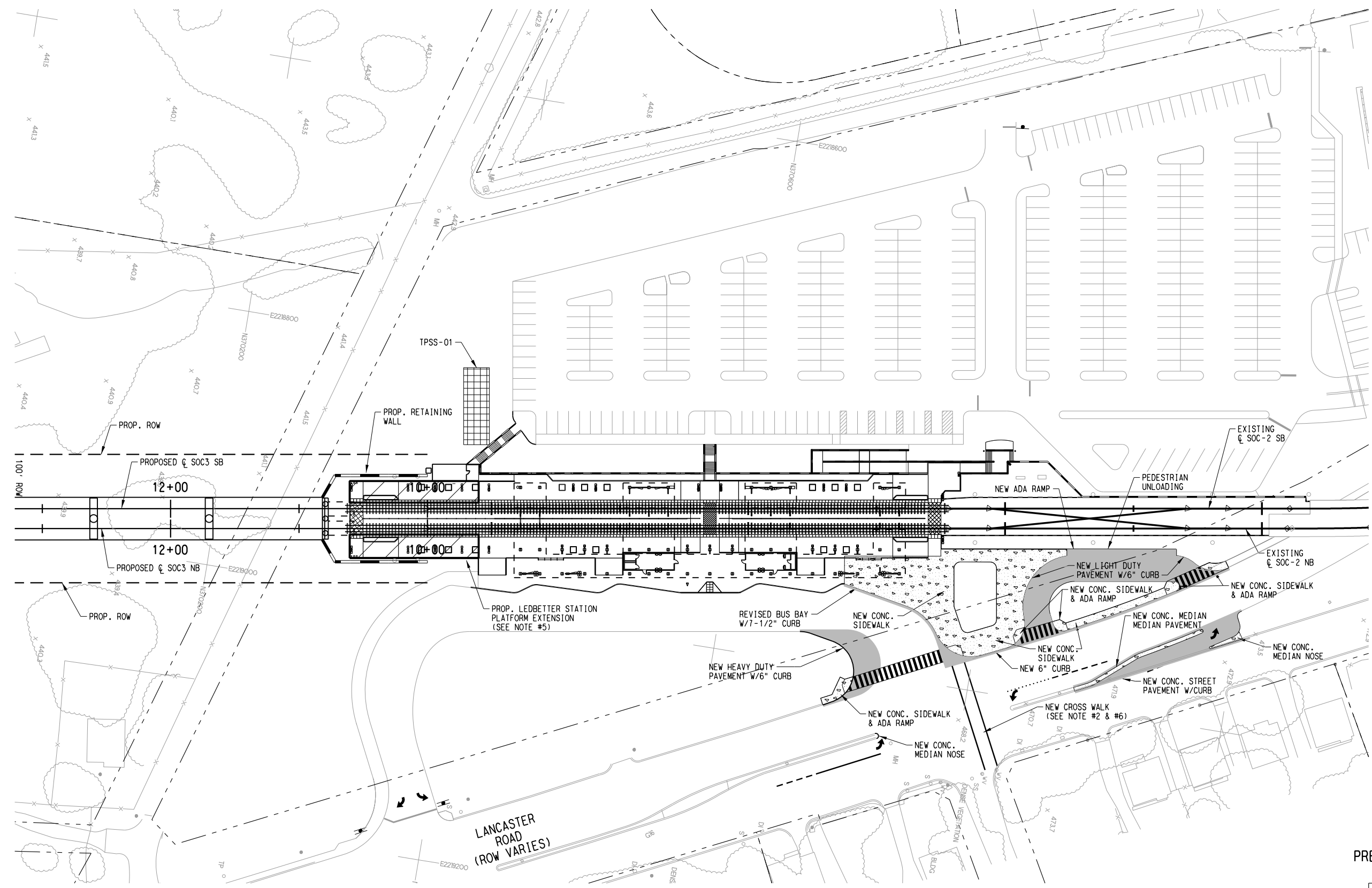
SCALE	NO SCALE
DRAWN	J. AREVALO
DESIGNED	
CHECKED	J. MURPHY
IN CHARGE	
DATE	15 MAY 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC3
STATION 100+00 TO END PROJECT**

V:\... \Present\01\on\1111111111.dwg

9/20/2012 1:Projects\...SOUTH\GPC 5\TO 24 SOC-3 PE-EA\SUBMITTALS\2012-09-14 5% Revision Project Hand Off Submittal\DWG\CC4-1001.dwg V81 \$\$\$\$\$\$

DWG No. CC4-1001



SCALE (IN FEET)
0 20 40 80

- LEGEND**
- LIMITS OF NEW CONC. PAVEMENT
 - LIMITS OF NEW CONC. SIDEWALK/MEDIAN PAVEMENT
 - NEW CROSS WALKS PER (CITY OF DALLAS STANDARD)

- NOTE:**
1. INFORMATION SHOWN UPON THESE DRAWINGS IS BASED UPON RECORD DRAWING INFORMATION RECEIVED FROM DALLAS AREA RAPID TRANSIT. FINAL DESIGN ENGINEER SHOULD PERFORM A FIELD SURVEY OF THE AFFECTED AREAS PRIOR TO PERFORMING FINAL DESIGN OR CONSTRUCTION ACTIVITIES.
 2. WORK WITHIN THE RIGHT-OF-WAY OF LANCASTER ROAD IS SUBJECT TO THE DESIGN CRITERIA OF TEXAS DEPARTMENT OF TRANSPORTATION AND/OR THE CITY OF DALLAS.
 3. SEE SHEET CC7-000 FOR GENERAL NOTES.
 4. SEE EXISTING UTILITY COMPOSITE SHEETS FOR NOTES & DETAILS ABOUT EXISTING UTILITIES.
 5. SEE ARCH. SHEETS FOR ALL DEMO & NEW IMPROVEMENTS TO THE PLATFORM.
 6. FINAL DESIGNER TO COORDINATE WITH TXDOT AND/OR CITY OF DALLAS REGARDING ADVANCE WARNING SIGNS AND/OR DEVICES FOR LANCASTER RD. CROSSWALK.

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 1 OF 44

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
CIVIL SITE PLAN
SHEET 1 OF 4**

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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ON 09/14/2012
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DALLAS, TEXAS 75207
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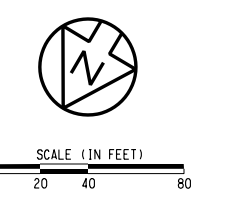
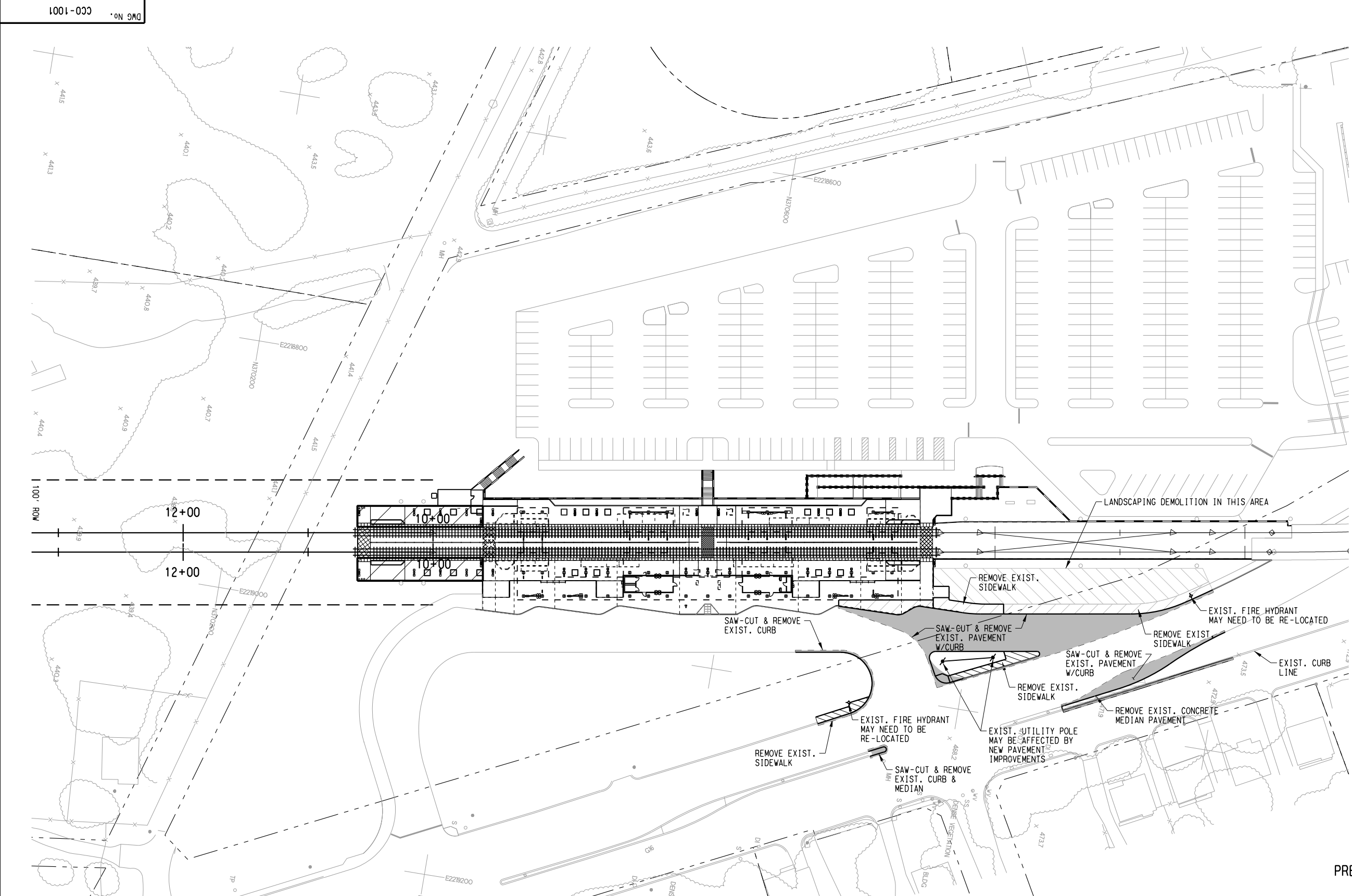
DART PROJECT

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SCALE	AS SHOWN
DRAWN	D. KRUCIAK
DESIGNED	D. KRUCIAK
CHECKED	D. MIKEWORTH
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

CONTRACT	DWG No. CC4-1001	REV
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9/20/2012 1: Projects\...SOUTH\GPC 5\TO 24 SOC-3 PE-EA\SUBMITTALS\2012-09-14 5% Revision Project Hand Off Submittal\DWG\CC1-1001.dwg



- LEGEND**
- [Solid Grey Box] LIMITS OF CONC. PAVEMENT REMOVAL
 - [Hatched Box] LIMITS CONC. SIDEWALK/MEDIAN PAVEMENT REMOVAL
 - [Dashed Line] SAW-CUT

- NOTE:**
1. SEE SHEET CC1-1001 FOR ADDITIONAL NOTES.
 2. SEE ARCH. SHEETS FOR ALL DEMO TO THE PLATFORM.

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 2 OF 44

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
CIVIL SITE DEMO PLAN
SHEET 2 OF 4**

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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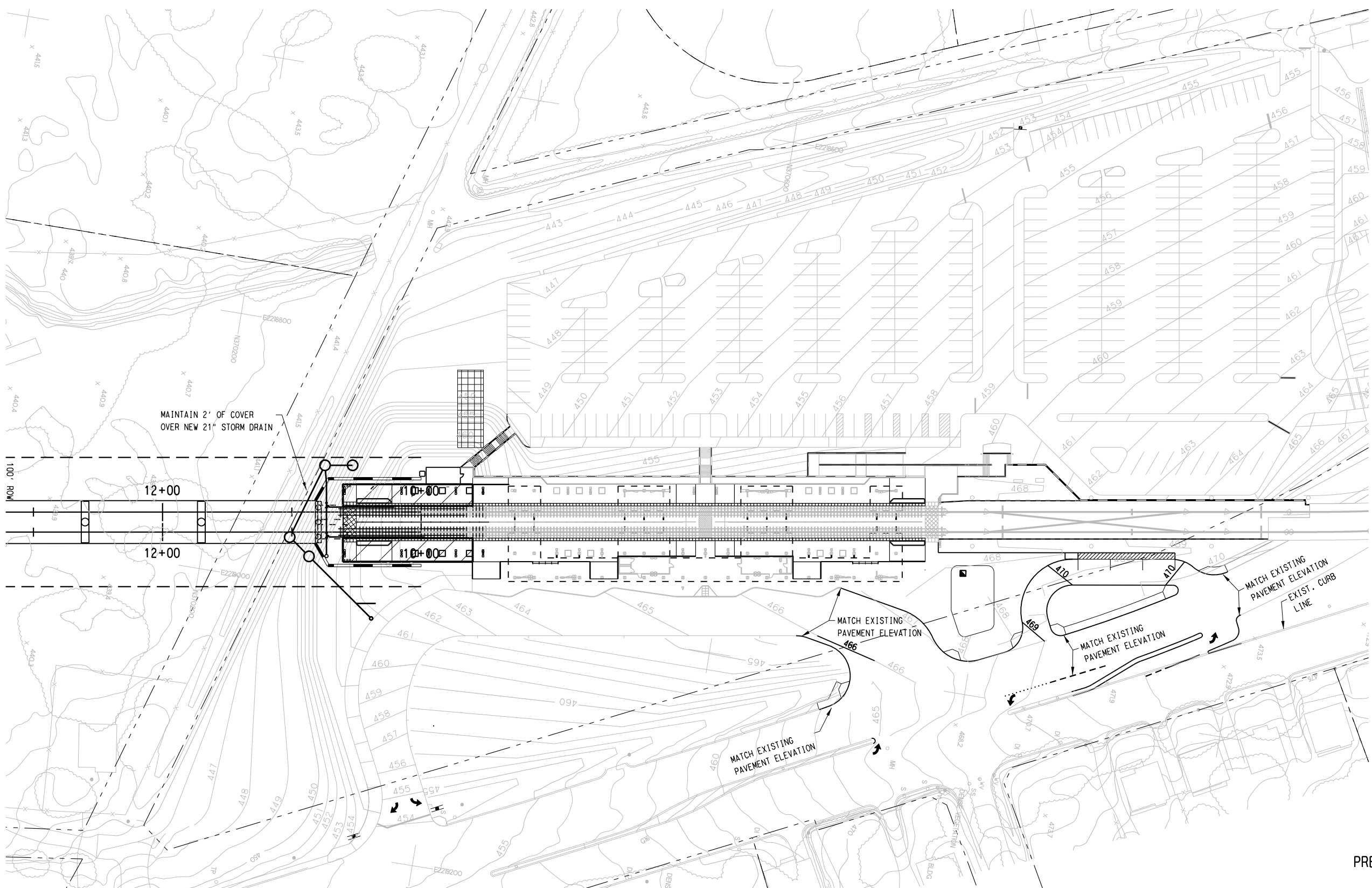
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DRAWN	D. KRUCIAK
DESIGNED	D. KRUCIAK
CHECKED	D. MIKEWORTH
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

CONTRACT	DWG No.	CCO-1001	REV
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9/20/2012 1:\Projects\1_SOUTHGPC_5\TO 24 SOC-3 PE-EA\SUBMITTALS\2012-09-14 5% Revision\Project Hand Off\Submit\1\DWG\CC2-1001.dwg

DWG No. CC2-1001



SCALE (IN FEET)
0 20 40 80

LEGEND

— 455 — EXIST. CONTOURS

— 470 — PROP. CONTOURS

NOTE:

1. SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 3 OF 44

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**LEDBETTER STATION
GRADING PLAN
SHEET 3 OF 4**

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CHECKED	D. MIKEWORTH
IN CHARGE	P. ZHAO
DATE	14 SEPT 12

CONTRACT	DWG No. CC2-1001	REV
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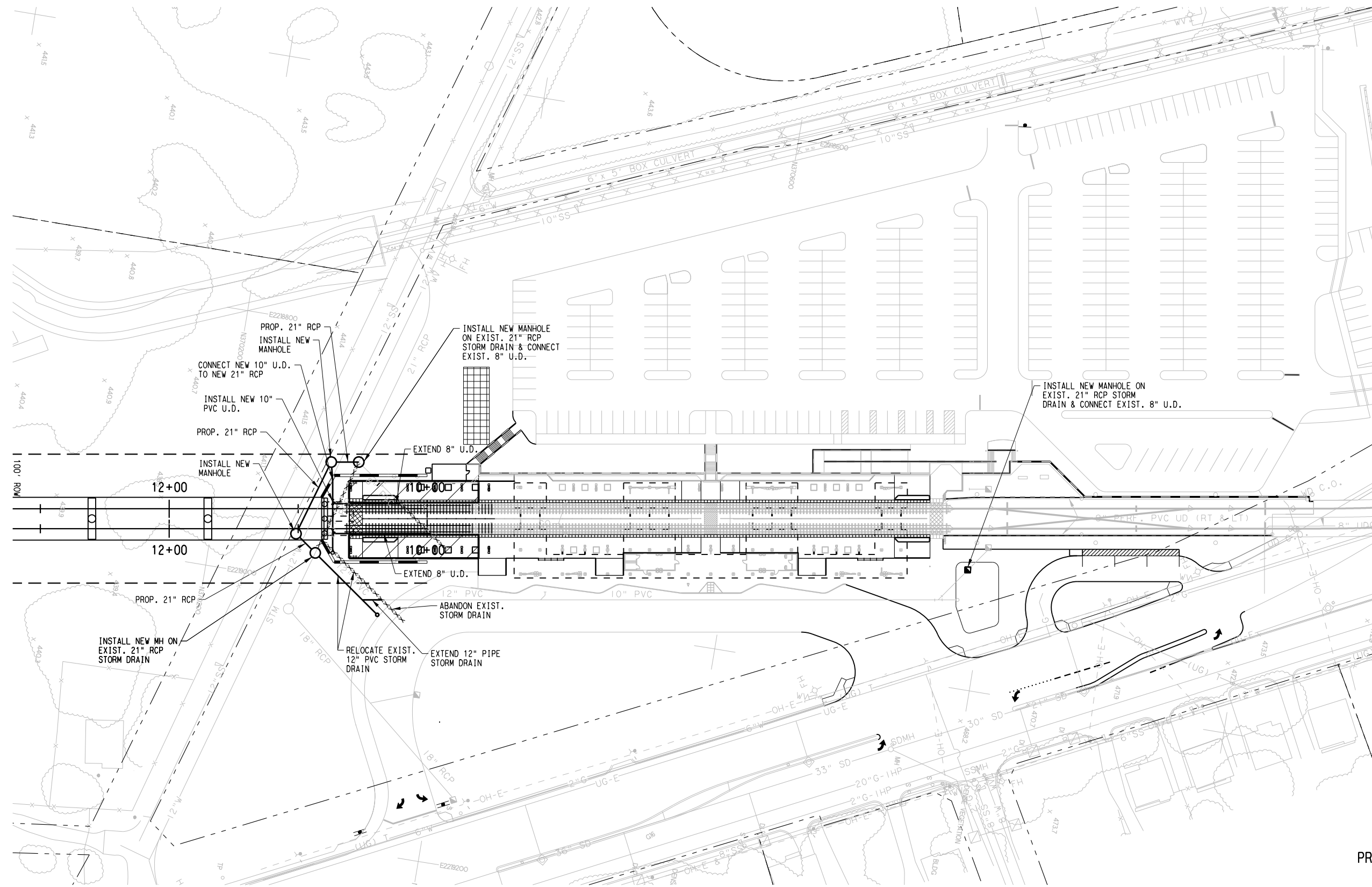
9/20/2012

don_king_v81

\$\$\$MODEL\$\$

I:\Projects\1_SOUTH\GPC 5\TO 24 SOC-3 PE-EA\SUBMITTALS\2012-09-14 5% Revision Project Hand Off Submittal\DWG\CC6-1001

1001-900



SCALE (IN FEET)
 0 20 40 80

LEGEND

- PROP. 48" STD. MANHOLE
- PROP. STORM DRAIN REMOVAL
- LIMITS OF EXIST. STORM DRAIN REMOVAL

NOTE:

1. SEE DWG. No. CC1-0001 FOR ADDITIONAL NOTES.
2. EXIST. STORM DRAINS ARE BASED ON INFORMATION PROVIDED BY DART. NO SURVEY WAS PERFORMED TO VERIFY EXIST. CONDITIONS.

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 PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 4 OF 44

LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3

LEDBETTER STATION
 DRAINAGE PLAN
 SHEET 4 OF 4

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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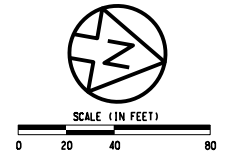


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IN CHARGE	P. ZHAO
DATE	14 SEPT 12



CONTRACT	DWG No.	CC6-1001	REV
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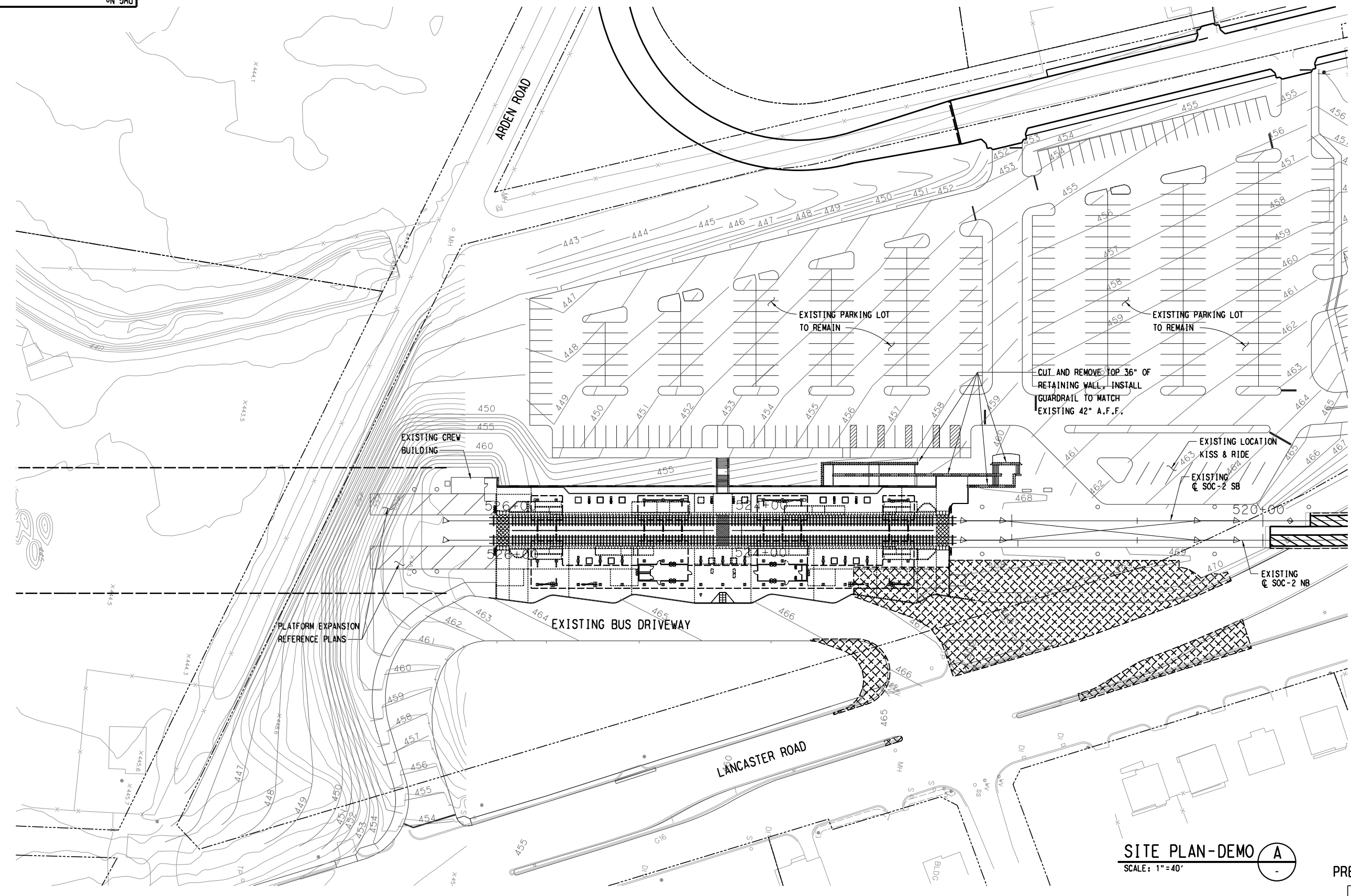


DEMO NOTES:

1. PROTECT ALL ELEMENTS TO REMAIN DURING DEMOLITION.
2. PREPARE SITE FOR PLATFORM EXPANSION. REF. OVERALL AND PARTIAL PLANS FOR DIMENSIONS AND DETAILS.
3. PREPARE SITE FOR NEW LOCATION OF KISS AND RIDE ACCESS TO PLATFORM. REF. CIVIL FOR DIMENSION AND DETAILS.

LEGEND

REFER TO CIVIL SITE DEMO PLAN DRAWING CC1-1002 FOR SITE DEMOLITION IN AND ADJACENT TO LANCASTER ROAD



SITE PLAN-DEMO A
SCALE: 1" = 40'

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PRELIMINARY ENGINEERING 10% DESIGN**

CONTRACT SHEET No. 5 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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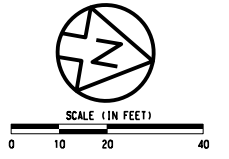
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URS CORPORATION ID #3162



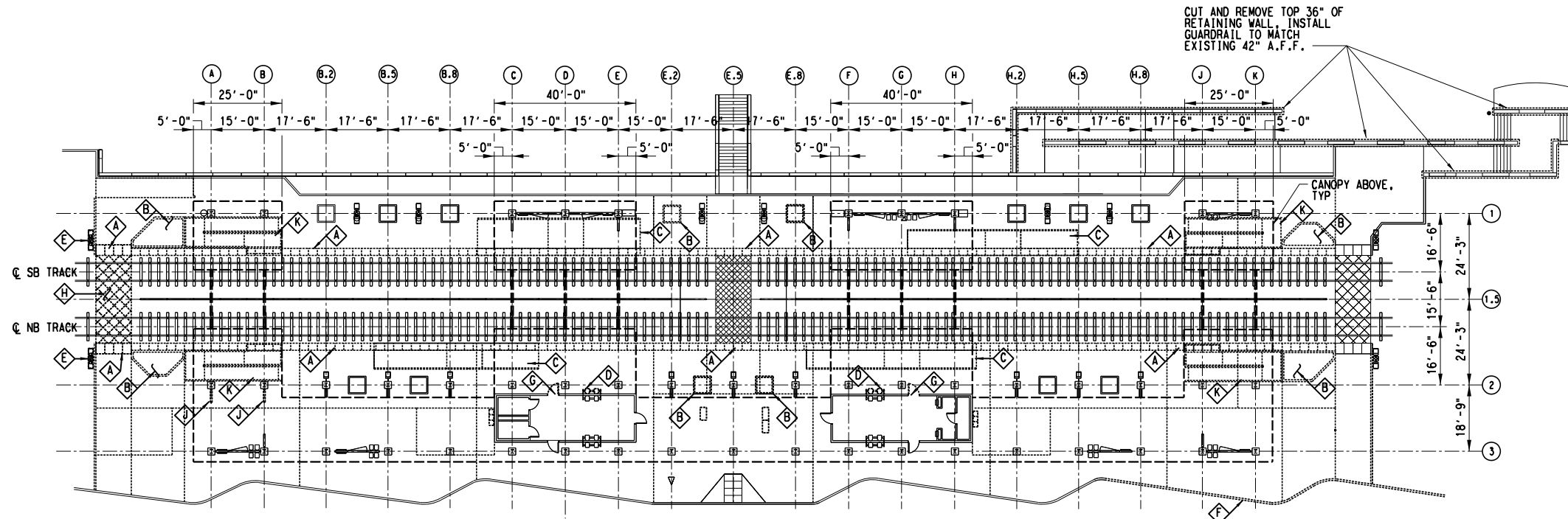
SCALE	1"=40'-0"
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBOURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

CONTRACT			DWG No.	REV
			ACO-0010	-
CAES				

\$USER\$\$\$\$
\$MODEL\$\$\$\$
2:23:54 PM
\$FILEL\$



2:24:53 PM
\$FILEL\$



- DEMO NOTES:
1. PROTECT ALL ELEMENTS TO REMAIN DURING DEMOLITION.
 2. PREPARE SITE FOR PLATFORM EXPANSION AND LEVEL BOARDING. REF. OVERALL AND PARTIAL PLANS FOR DIMENSIONS AND DETAILS.
 3. WEST SIDE WALL OF CREW BUILDING NEEDS TO BE MODIFIED PRIOR TO RAISING THE PLATFORM.
 4. REMOVE ALL NEWSPAPER RACKS.

- DEMO LEGEND
- ◊ DEMO WARNING STRIP
 - ◊ DEMO PLANTER
 - ◊ DEMO EXISTING MINI-HUMP
 - ◊ REMOVE EXISTING SEATS
 - ◊ DEMO EXISTING LIGHT POLES (PROTECT FOR RE-USE)
 - ◊ REMOVE EXISTING CURB, REF. CIVIL
 - ◊ REMOVE EXISTING ENTRANCE TO BUILDING
 - ◊ REMOVE EXISTING CROSSING PANELS (PROTECT FOR RE-USE)
 - ◊ REMOVE AND RELOCATE EXISTING WS-5
 - ◊ REMOVE EXISTING SPECIAL USE PLATFORM

OVERALL PLATFORM PLAN - DEMO (A)
SCALE: 1" = 20' - 0"

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 6 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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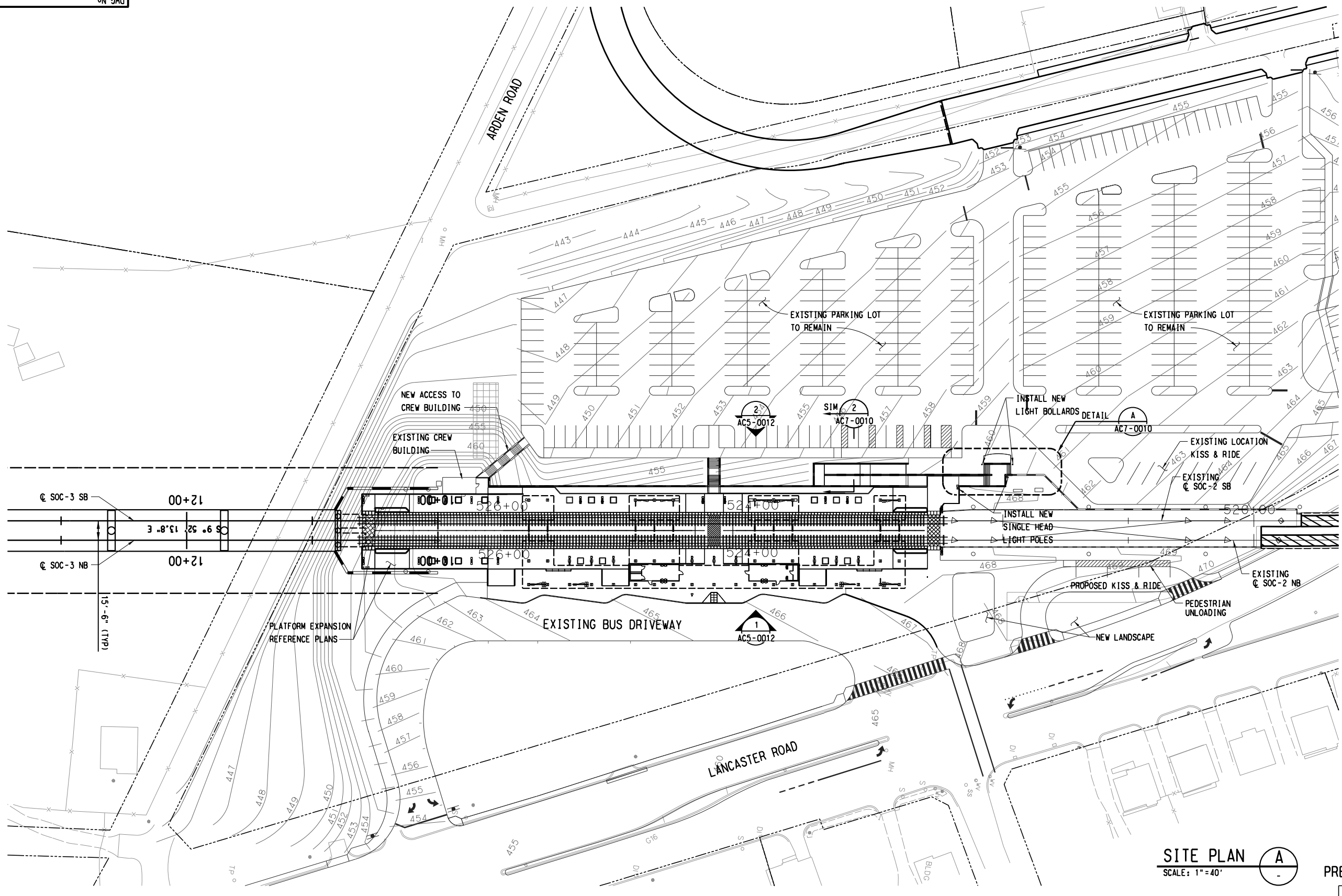
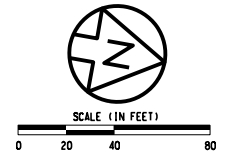
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SCALE	1" = 20' - 0"
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBURDY
IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3 LEDBETTER STATION OVERALL PLATFORM PLAN DEMO		
CONTRACT	DWG No.	REV
ACO-0011	ACO-0011	-

\$\$\$USER\$\$\$
\$\$\$MODEL\$\$\$



SITE PLAN **A**
SCALE: 1"=40'

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 7 OF 44

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
SITE PLAN

IN-PROGRESS

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URS CORPORATION ID #3162

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SCALE	1"=40'-0"
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DESIGNED	V. SADR
CHECKED	J. LIBBURY
IN CHARGE	D. JAMES
DATE	14 SEP 12



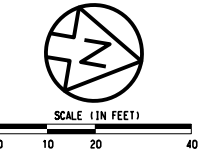
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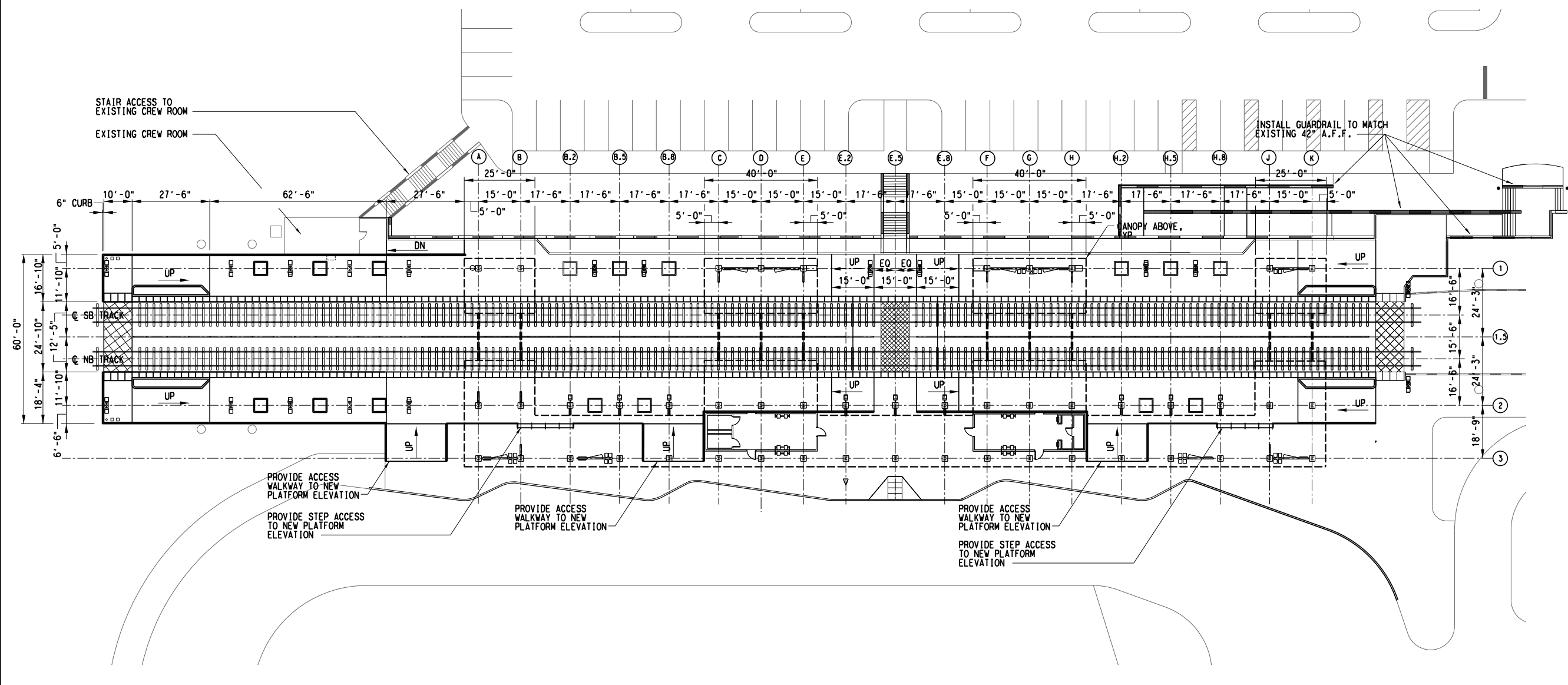
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OVERALL PLATFORM PLAN A
SCALE: 1"=20'-0"

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IN CHARGE	D. JAMES
DATE	03 AUG 12

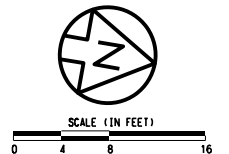
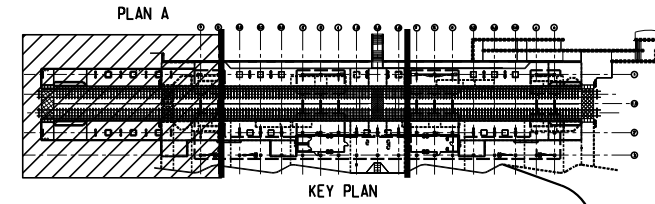
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CONTRACT DWG No.
AC2-0011

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
OVERALL PLATFORM PLAN**

REV -

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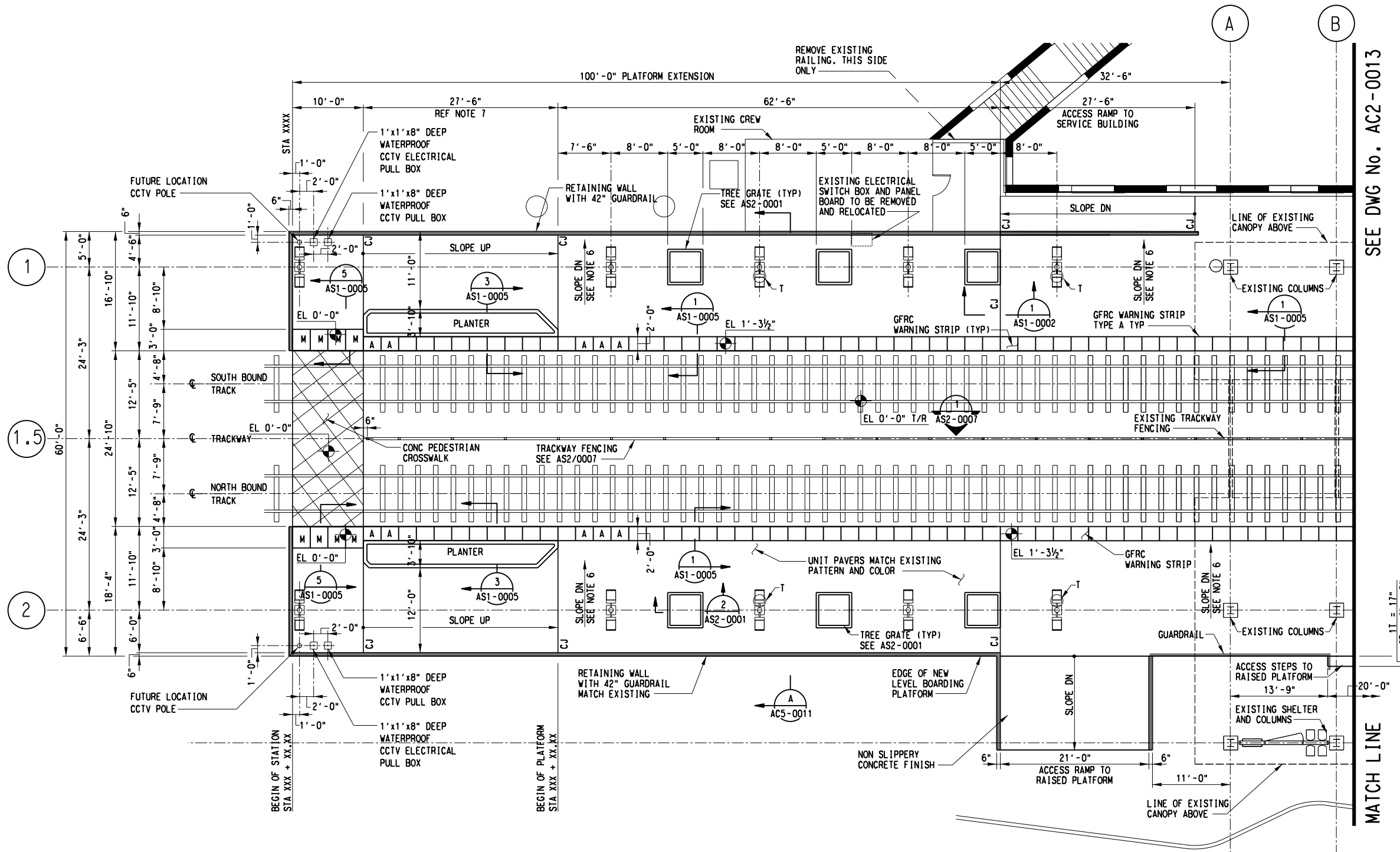


NOTES:

1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
2. TOP OF RAIL = 0'-0".
3. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
4. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
5. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
6. PLATFORM CROSS SLOPE MIN. % 1, MAX. % 1.75.
7. DESIGNER TO ADJUST LENGTH OF RAMP TO MAINTAIN SLOPE OF LESS THAN 4.7% ACCOMMODATING TRACK SLOPE.
8. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

AMENITIES LEGEND:

- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
- M-1 : SYSTEM MAP (NIC)
- N-3 : NEWSPAPER DISPENSER TYPE 3
- P-1 : PUBLIC TELEPHONE (NIC)
- PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
- PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
- T : TRASH RECEPTACLE (SEE 4,5/ AS2-0002)
- TV : TICKET VALIDATOR J-BOX
- TVM : TICKET VENDING MACHINE BASE
- VMB : VISUAL MESSAGE BOARD STANCHION
- WS-1 : WINDSCREEN TYPE 1 SEE DRAWING AS3-0001
- WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
- REC : ELECTRICAL RECEPTACLE



SEE DWG No. AC2-0013

MATCH LINE

PARTIAL PLATFORM PLAN "A"
 SCALE: 1/8" = 1'-0"
 AC2-0011

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DESIGNED	V. SADR
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IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 LEDBETTER STATION
 PARTIAL PLAN "A"**

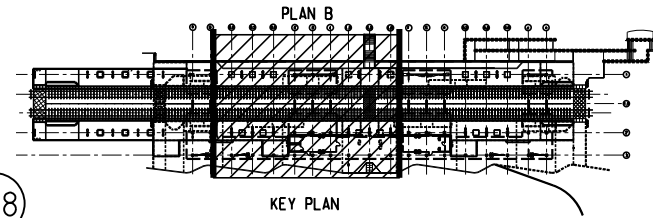
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CONTRACT DWG No. AC2-0012 REV -

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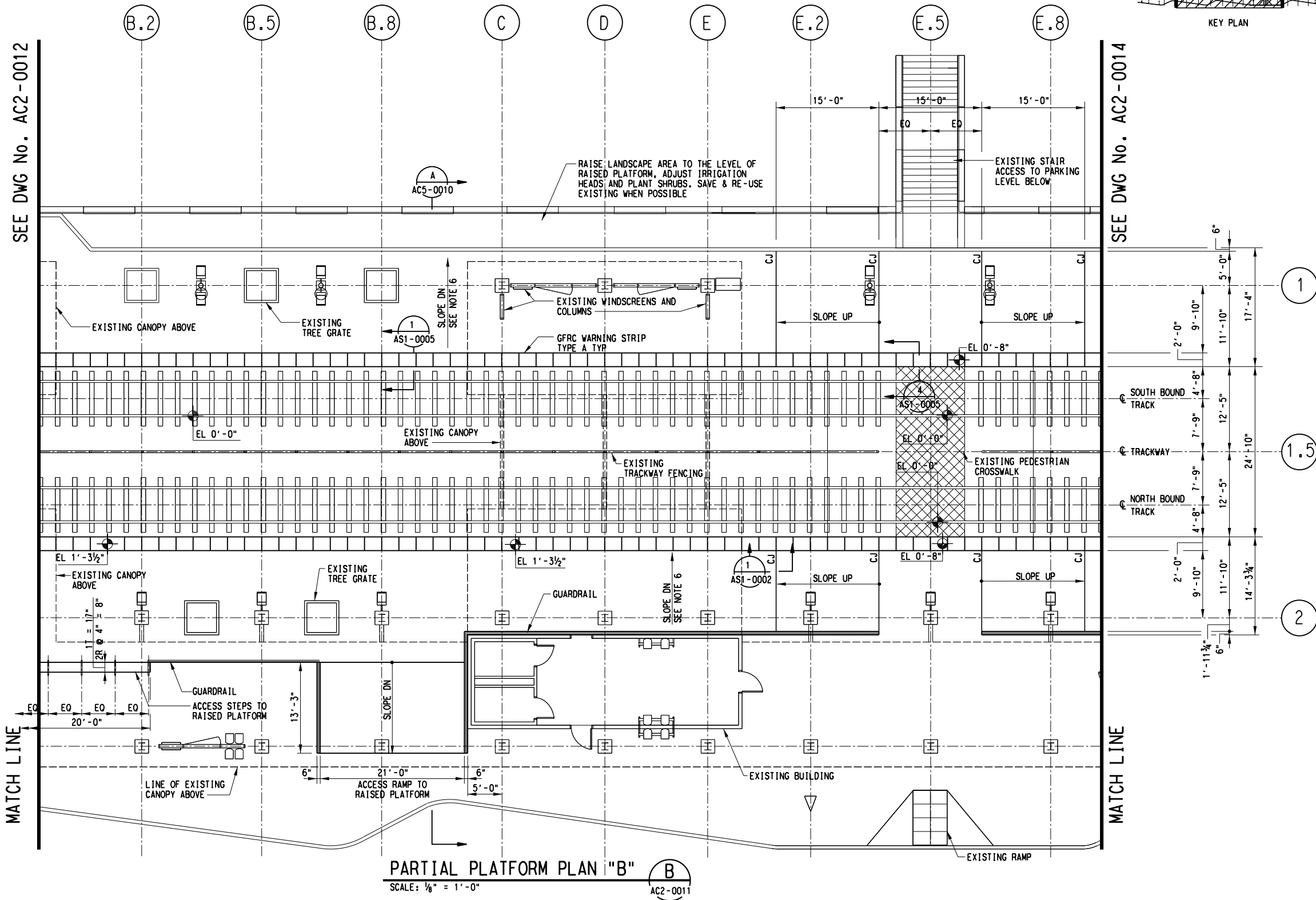
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SEE DWG No. AC2-0012

SEE DWG No. AC2-0014



PARTIAL PLATFORM PLAN "B"
SCALE: 1/8" = 1'-0"

NOTES:

1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
2. TOP OF RAIL= 0'-0".
3. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
4. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
5. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
6. PLATFORM CROSS SLOPE MIN. % 1, MAX. % 1.75.
7. DESIGNER TO ADJUST LENGTH OF RAMP TO MAINTAIN SLOPE OF LESS THAN 4.7% ACCOMMODATING TRACK SLOPE.
8. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

AMENITIES LEGEND:

- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
- M-1 : SYSTEM MAP (NIC)
- N-3 : NEWSPAPER DISPENSER TYPE 3
- P-1 : PUBLIC TELEPHONE (NIC)
- PA : PUBLIC ANNOUNCEMENT (SEE ELECTRICAL DRAWINGS FOR LOCATION)
- T : TRASH RECEPTACLE (SEE 4,5/ AS2-0002)
- TV : TICKET VALIDATOR J-BOX
- TVM : TICKET VENDING MACHINE BASE
- VMB : VISUAL MESSAGE BOARD STANCHION
- WS-1 : WINDSCREEN TYPE 1 SEE DRAWING AS3-0001
- WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
- REC: ELECTRICAL RECEPTACLE

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CONTRACT SHEET No. 11 OF 44

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
PARTIAL PLAN "B"

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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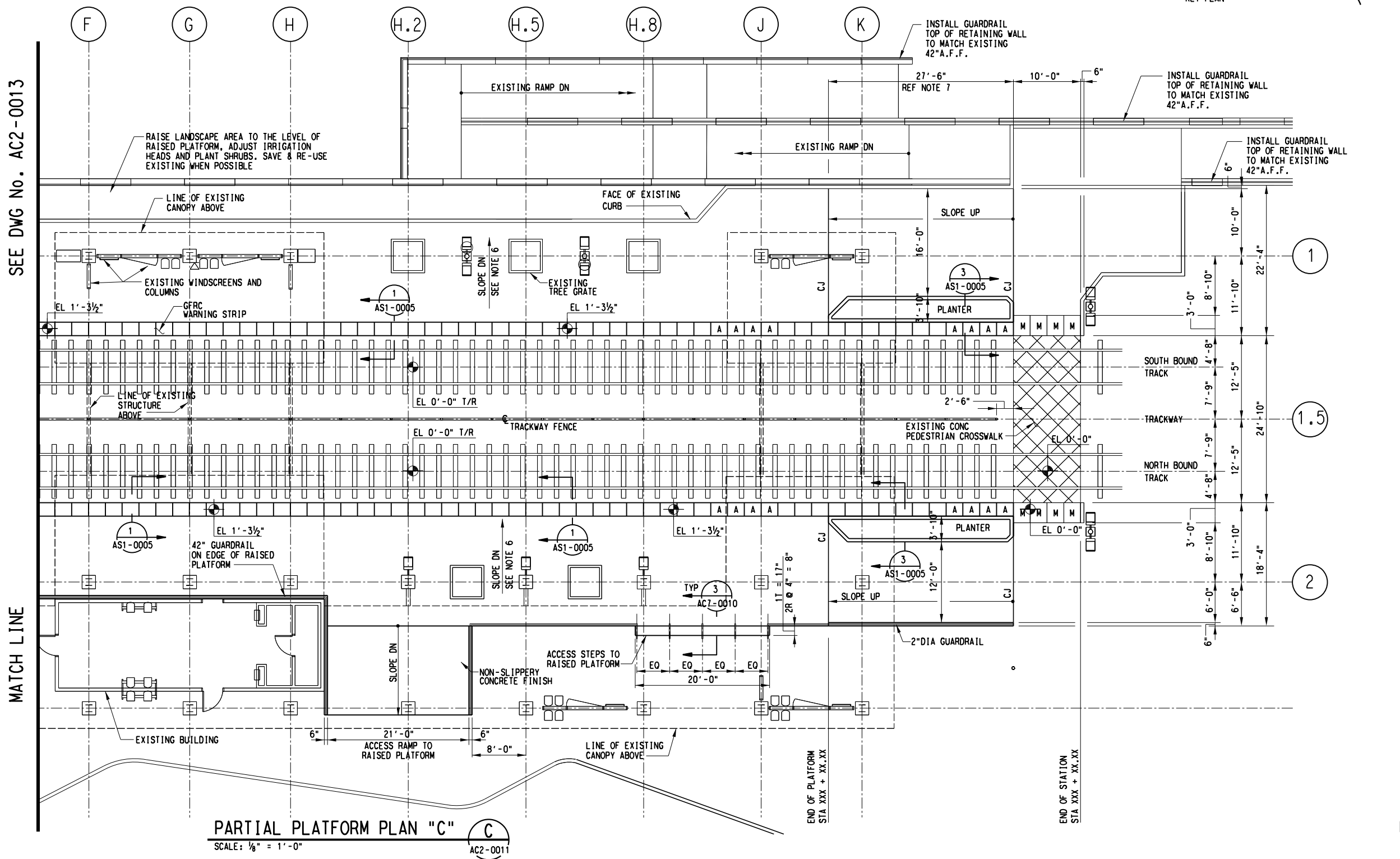
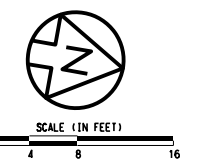
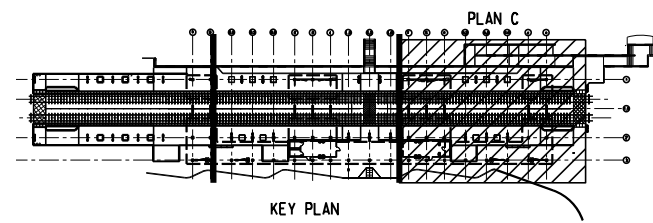
SCALE	AS NOTED
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBURDY
IN CHARGE	D. JAMES
DATE	03 AUG 12

CONTRACT	DWG No.	REV
	AC2-0013	-

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\$\$MODEL\$\$\$\$

\$\$\$\$SYTIME\$\$\$\$
\$\$FILEL\$\$\$\$



- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL = 0'-0".
 3. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 4. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 5. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
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 8. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

- AMENITIES LEGEND:
- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
 - M-1 : SYSTEM MAP (NIC)
 - N-3 : NEWSPAPER DISPENSER TYPE 3
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 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
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 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-1 : WINDSCREEN TYPE 1 SEE DRAWING AS3-0001
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE

PARTIAL PLATFORM PLAN "C"
SCALE: 1/8" = 1'-0"
AC2-0011

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CONTRACT SHEET No. 12 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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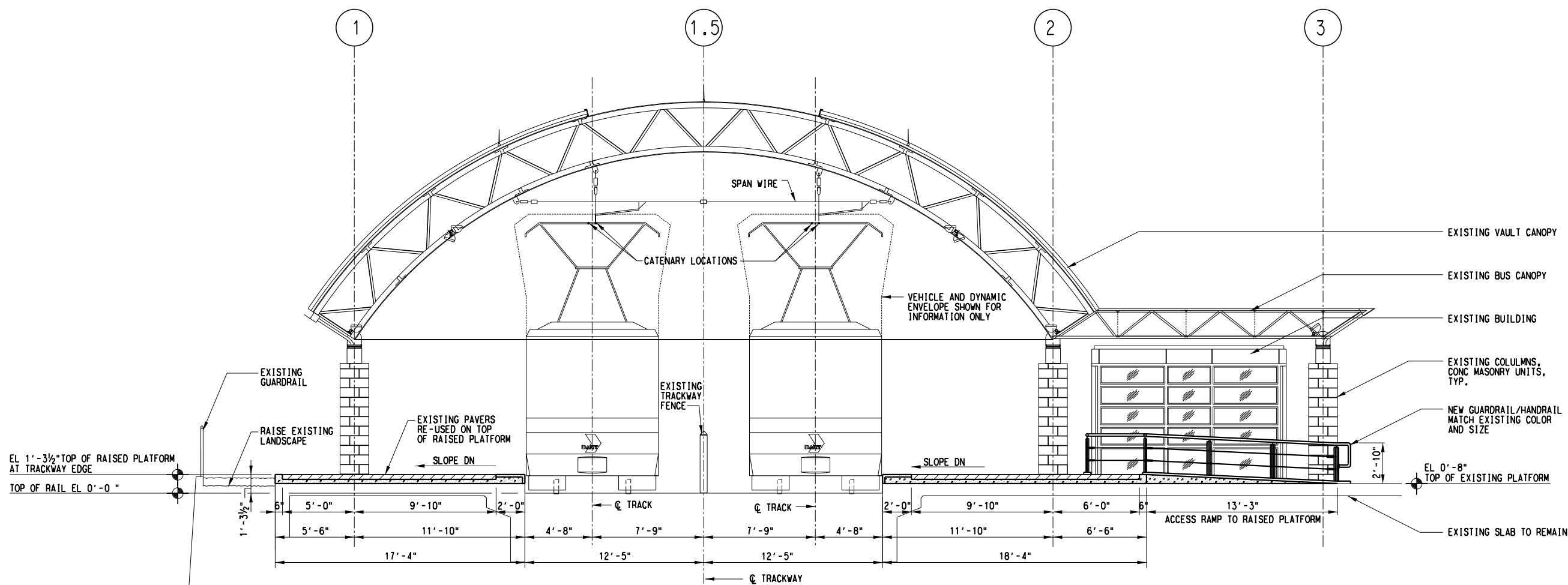
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DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
PARTIAL PLAN "C"**

CONTRACT DWG No. AC2-0014

- NOTE:
1. ALL EXISTING ELEMENTS SHALL BE PROTECTED DURING CONSTRUCTION.
 2. REFERENCE PLANS FOR NEW PLATFORM ELEVATION AND ACCESS RAMPS.
 3. CONTRACTOR TO PROTECT AND RE-INSTALL ALL PAVING UNITS, MATCH PATTERN TO EXISTING PLANS.



OVERALL SECTION A
 SCALE: 1/4" = 1'-0"

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CONTRACT SHEET No. 13 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CHECKED	J. LIBURDY
IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM
 LINE SECTION SOC-3
 LEDBETTER STATION
 OVERALL CROSS SECTION
 AT EXISTING PLATFORM

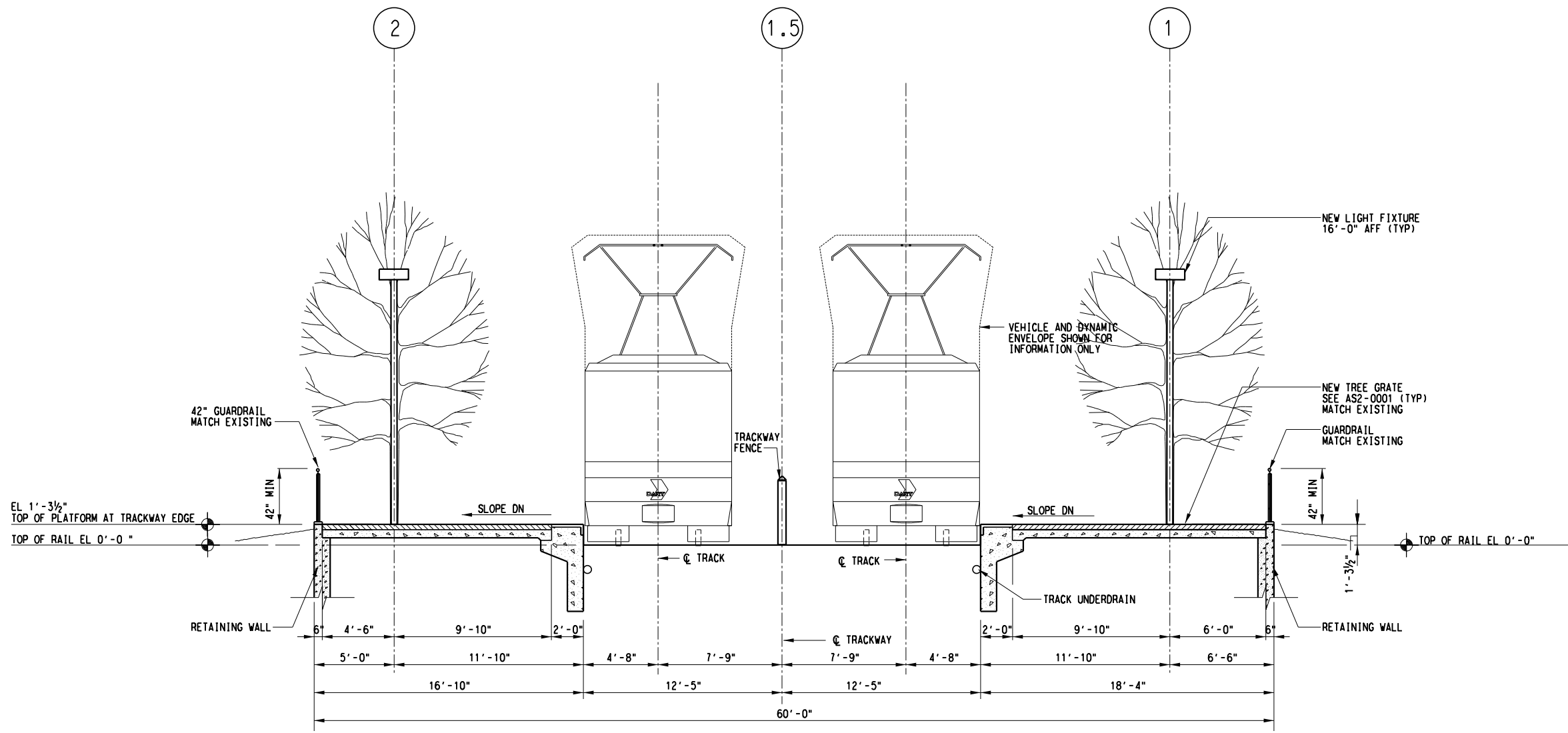
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- NOTE:
1. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 2. FOR PAINT AND FINISH SCHEDULE SEE XXX-XXXX.
 3. SEE STRUCTURAL PLANS FOR PLATFORM GRADE.
 4. MATCH GUARDRAIL, TRACKWAY FENCE, PAVING PATTERN AND COLORS WITH EXISTING ELEMENTS.



OVERALL SECTION A
SCALE: 1/4" = 1'-0"

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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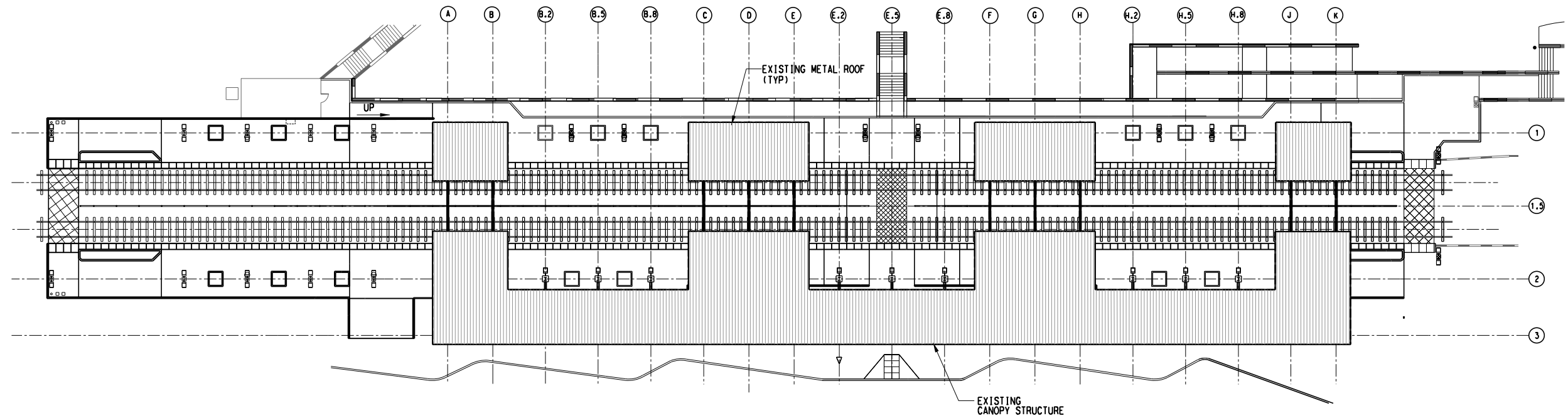
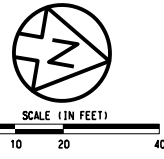
SCALE	AS NOTED
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
OVERALL CROSS SECTION
AT PLATFORM EXTENSION**

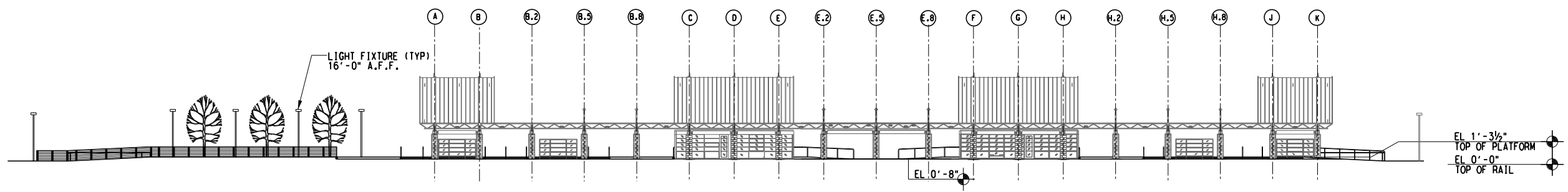
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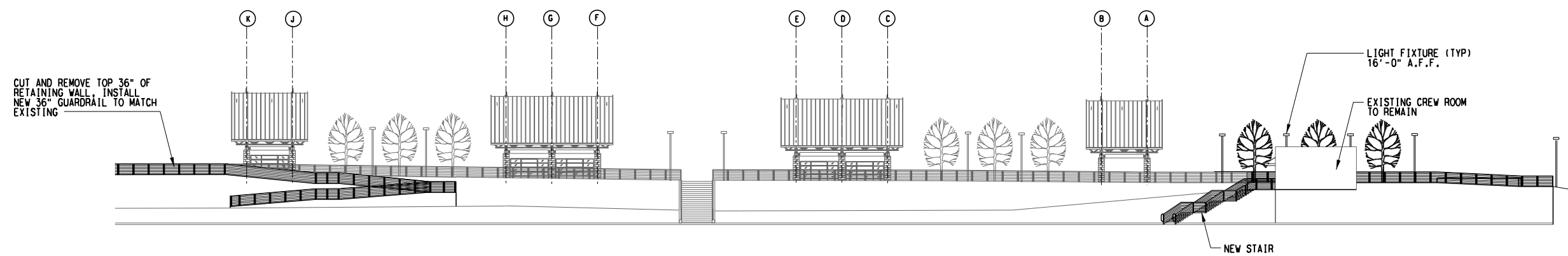
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OVERALL ROOF PLAN A
SCALE: 1" = 20'-0"



OVERALL EAST ELEVATION 1
SCALE: 1" = 20'-0"



OVERALL WEST ELEVATION 2
SCALE: 1" = 20'-0"

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SCALE	1" = 20'-0"
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBURDY
IN CHARGE	D. JAMES
DATE	03 AUG 12

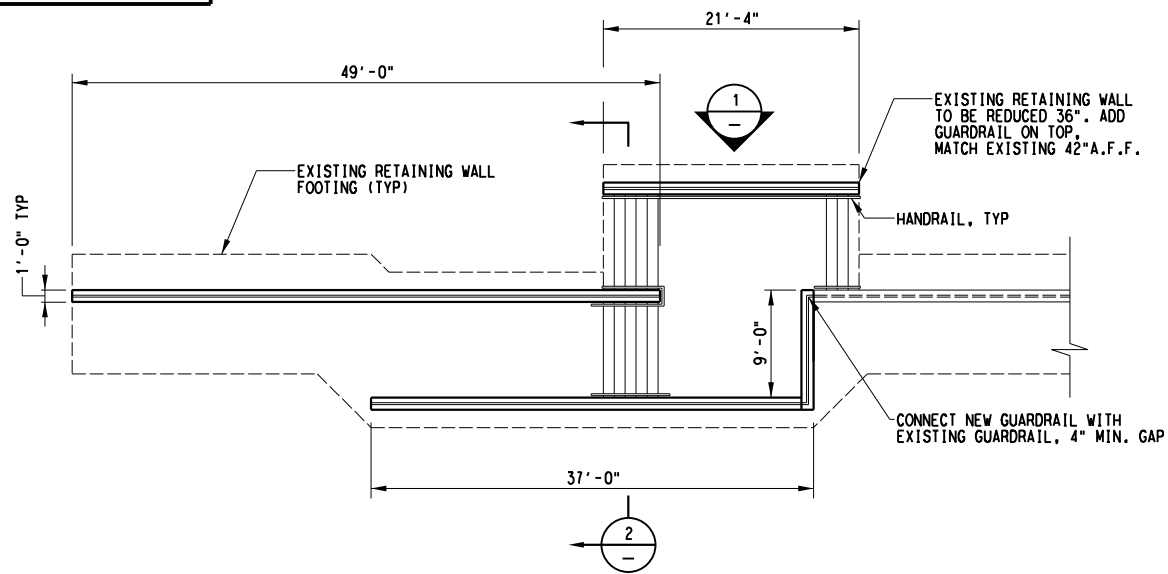
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
OVERALL ROOF PLAN AND
OVERALL ELEVATIONS

CONTRACT DWG No. AC5-0012

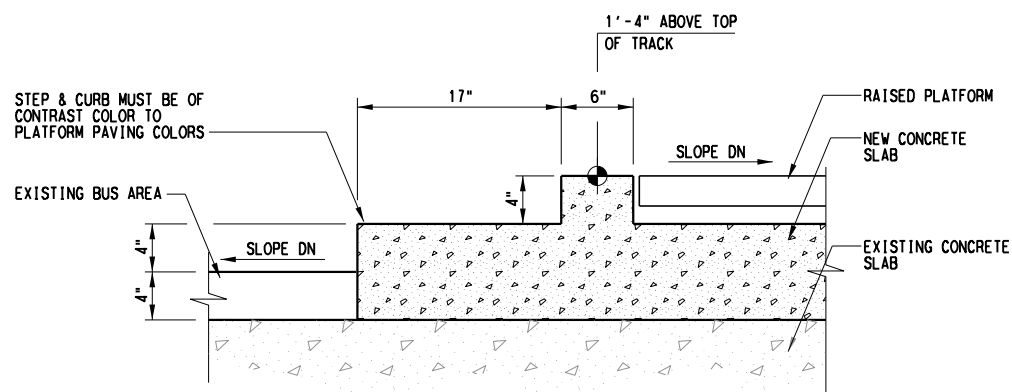
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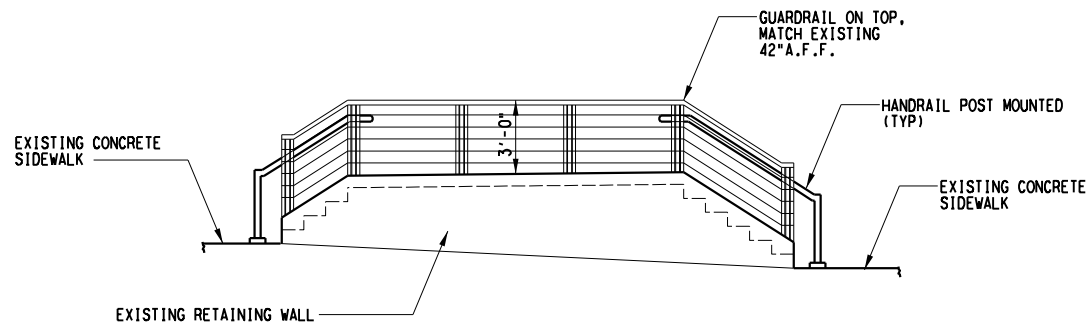


WALL "B" PLAN
SCALE: 1/8" = 1'-0"
AC1-0010

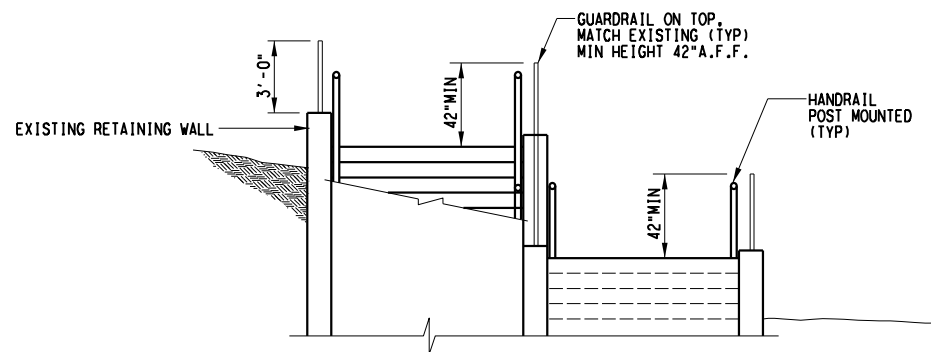


SECTION @ NEW STEPS TO RAISED PLATFORM
SCALE: 1" = 1'-0"
AC2-0014

- NOTE:
- 1. VERIFY ALL DIMENSIONS, SIZES AND LOCATION OF EXISTING CONDITIONS TO BE CUT AND REMOVED.
 - 2. NEW GUARDRAIL TO BE INSTALLED TO MATCH EXISTING DESIGN, COLOR AND CONNECTIONS AS EXISTING.



ELEVATION
SCALE: 1/4" = 1'-0"
AC1-0010



SECTION
SCALE: 1/4" = 1'-0"
AC1-0010

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DESIGNED	V. SADR
CHECKED	J. LIBOURY
IN CHARGE	D. JAMES
DATE	03 AUG 12
CAES	

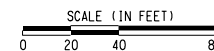
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
LEDBETTER STATION
RETAINING WALL
DETAILS

CONTRACT DWG No. AC7-0010 REV -

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\$\$\$\$SYTIME\$\$\$\$
SF ILEL \$
\$\$\$\$SYTIME\$\$\$\$
SF ILEL \$

8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-CIV\3033-CC1-1002.040

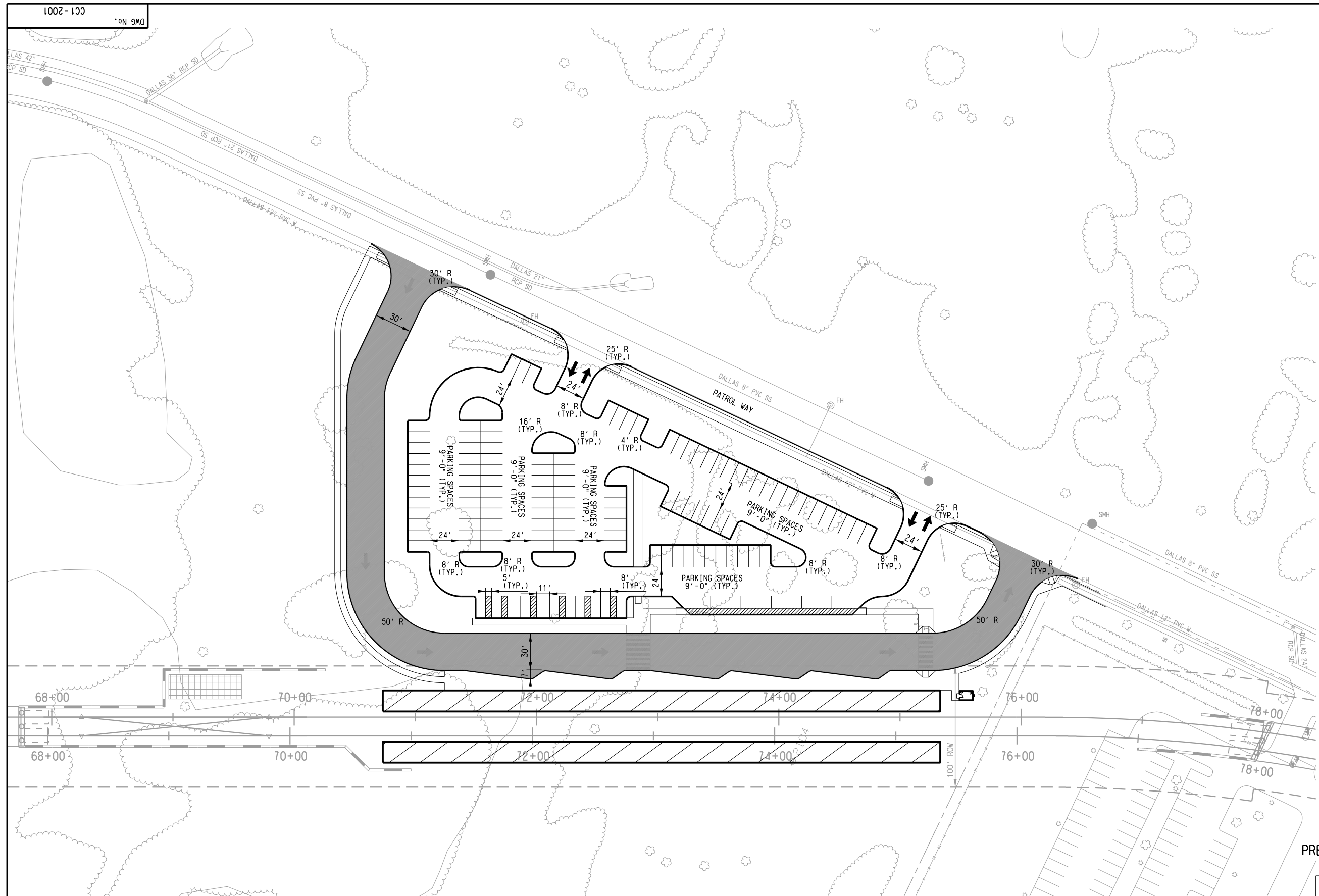
curt_hesilla_v81
S\$MODEL\$



- HEAVY DUTY PAVEMENT
- LIGHT DUTY PAVEMENT

PARKING TABULATION

	PROVIDED
BUS BAYS	5
HC ACCESSIBLE	11
KISS & RIDE	6
PARK & RIDE	123
(INCL. HC ACCESSIBLE & KISS/RIDE)	



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CONTRACT SHEET No. 17 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CP&Y

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FIRM REG. NO. 1741

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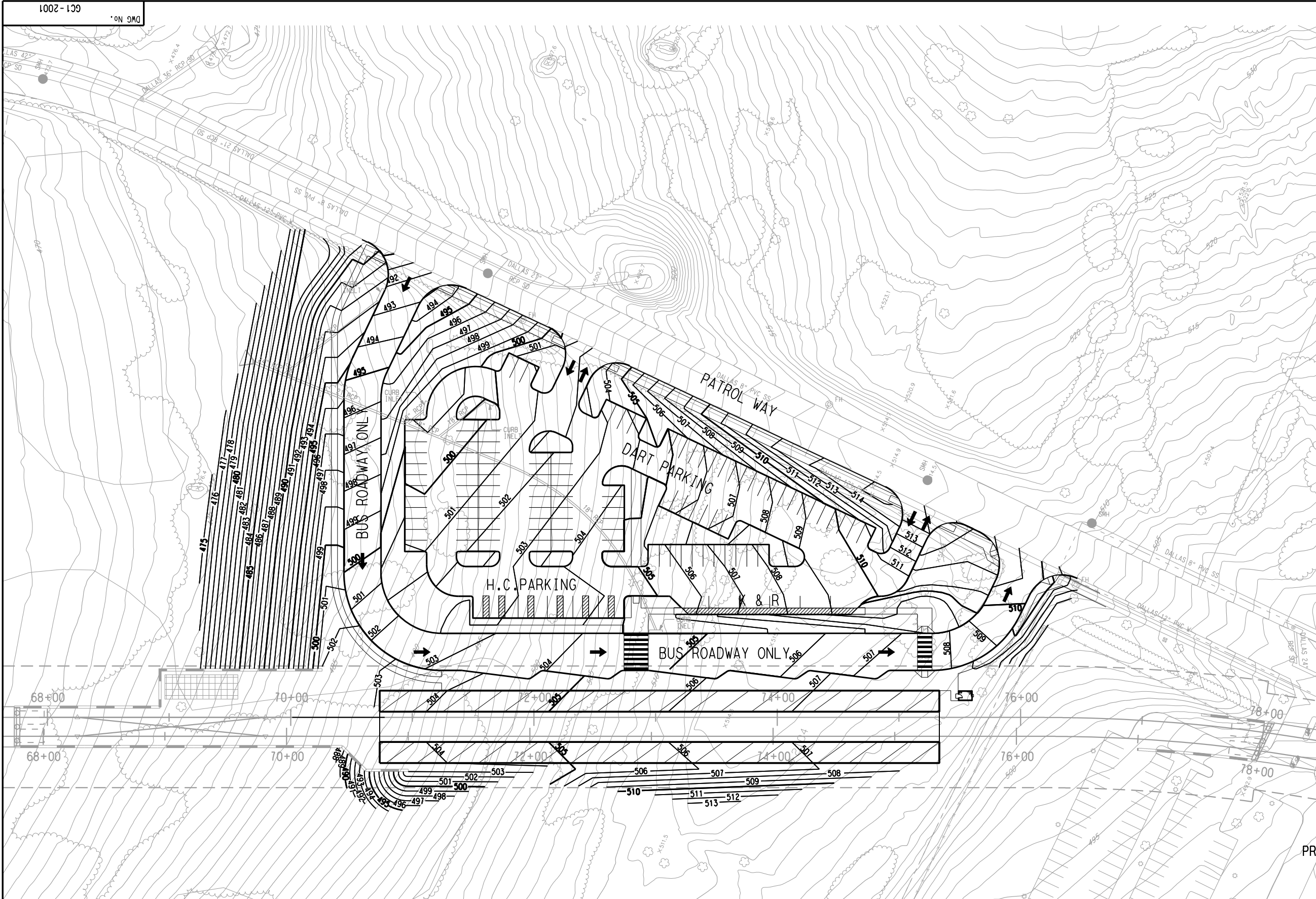
SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
CIVIL SITE PLAN**

CONTRACT DWG No. CC1-2001 REV

8/2/2012 \\Dm-fps04\dm_projects\GPC 5\TO 24 SOC-3 PE-EA\DN\CVL-CIV\SOC3-CC1-1003.040

curt_kestila_v81 \$BMODEL\$



SCALE (IN FEET)
 0 20 40 80

LEGEND
 - - - - - 495 PROPOSED CONTOURS
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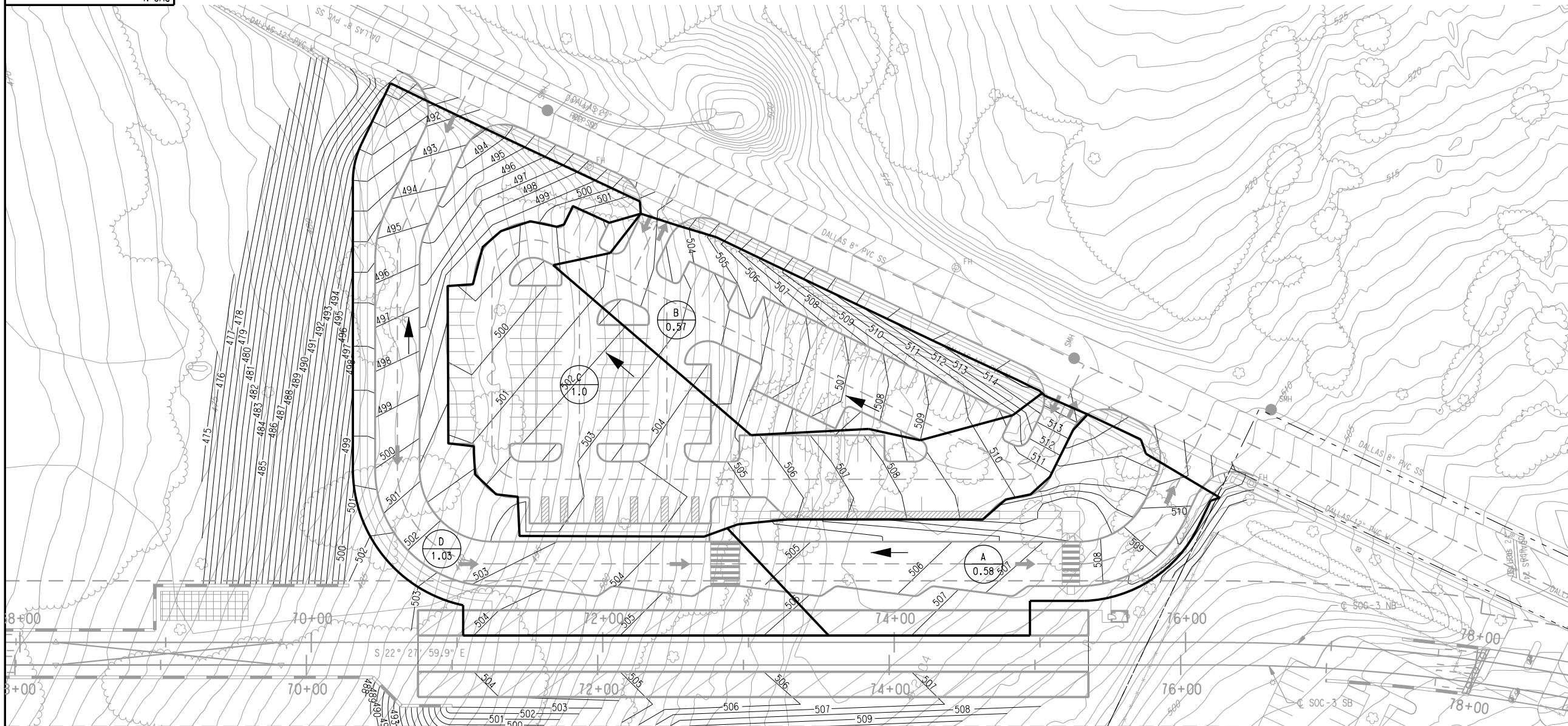
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SCALE	AS SHOWN
DRAWN	C. KESTILA
DESIGNED	C. KESTILA
CHECKED	C. ALLEN
IN CHARGE	P. ZHAO
DATE	03 AUG 12
CAES	CONTRACT
DWG No.	GC1-2001
REV	

8/2/2012 \\Dm-fps04\dm_projects\GPC 5\10 24 SOC-3 PE-EA\DN\CVL-DR\SOC-3-CC6-0005.040



SCALE (IN FEET)
0 20 40 80

- AREA DESIGNATION
- AREA (ACRES)
- DRAINAGE AREA BOUNDARY
- DRAINAGE FLOW

NOTE:

1. AREAS A, B, & C ARE PART OF AREA D-1 AS SHOWN ON CC6-001.
2. THE SOC-3 5% DESIGN DRAWINGS HAVE BEEN GENERATED BASED UPON AERIAL MAPPING DATA PREPARED FROM A FLIGHT PERFORMED SPECIFICALLY FOR THIS PROJECT BY AERIAL DATA SERVICE IN MARCH OF 2012. AERIAL MAPPING WAS PROVIDED FOR AN 800-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT SOUTH OF CAMP WISDOM ROAD AND A 1,600-FOOT WIDE CORRIDOR CENTERED ON THE ALIGNMENT NORTH OF CAMP WISDOM ROAD.
3. 1-FOOT CONTOUR DATA WAS DEVELOPED BY AERIAL DATA SERVICE AS PART OF THE PROJECT AERIAL MAPPING EFFORT DESCRIBED IN NOTE 3.

DRAINAGE AREA SUMMARY TABLE

DRAINAGE AREA NO.	TOTAL AREA	"C"	T _c (MIN.)	I (100-YR) (IN./HR)	Q (100 YR) (CFS)	REMARKS
A	0.58	0.90	10.0	8.88	4.6	CURB INLET
B	0.57	0.90	10.0	8.88	4.6	CURB INLET
C	1.0	0.90	10.0	8.88	8.0	CURB INLET
D	1.03	0.90	10.0	8.88	8.2	CURB INLET

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
DRAINAGE AREA MAP

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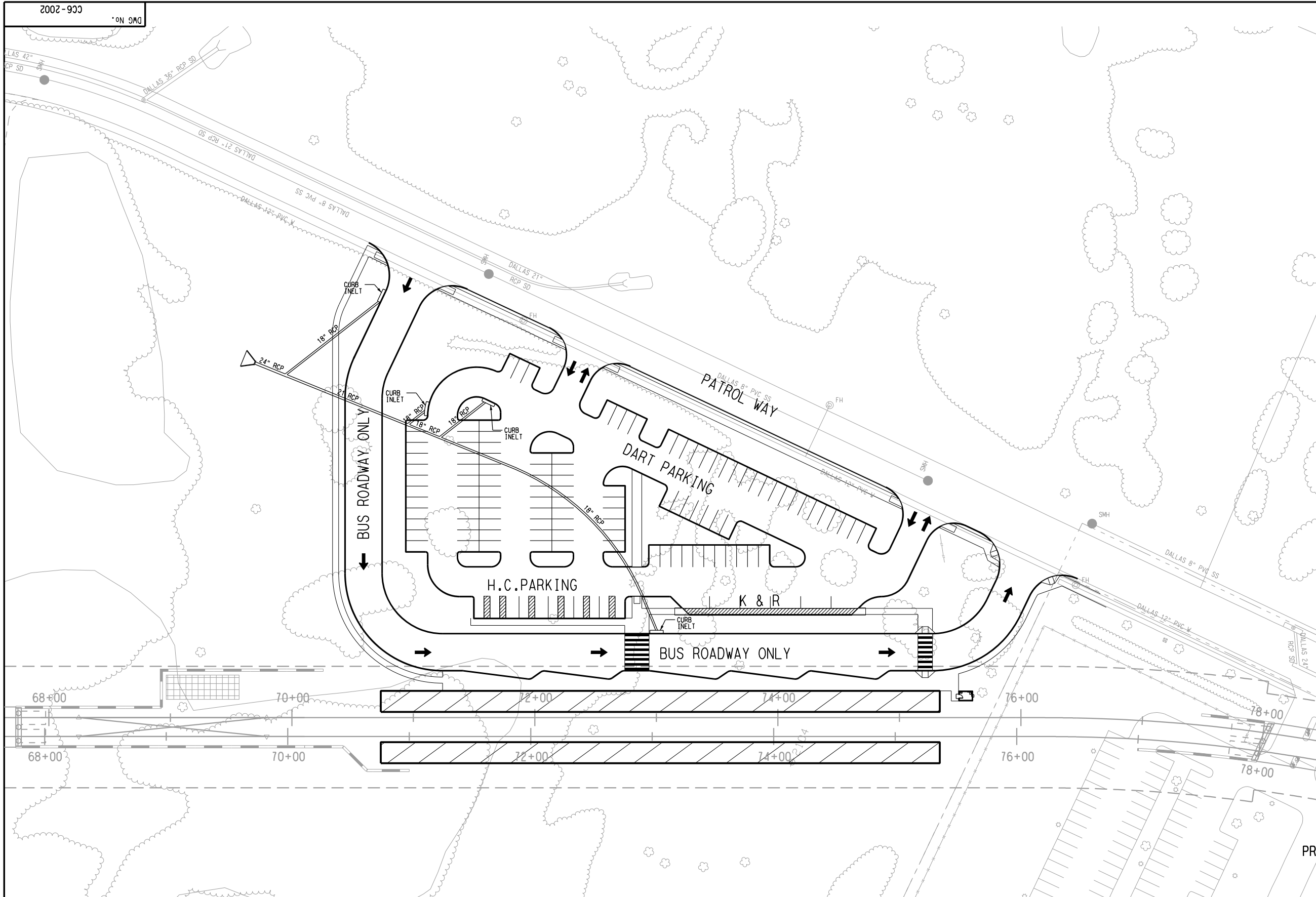
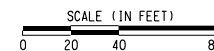
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IN CHARGE	P. ZHAO
DATE	03 AUG 12
	CONTRACT
DWG No.	CC6-2001
REV	

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

CAMP WISDOM STATION
DRAINAGE PLAN


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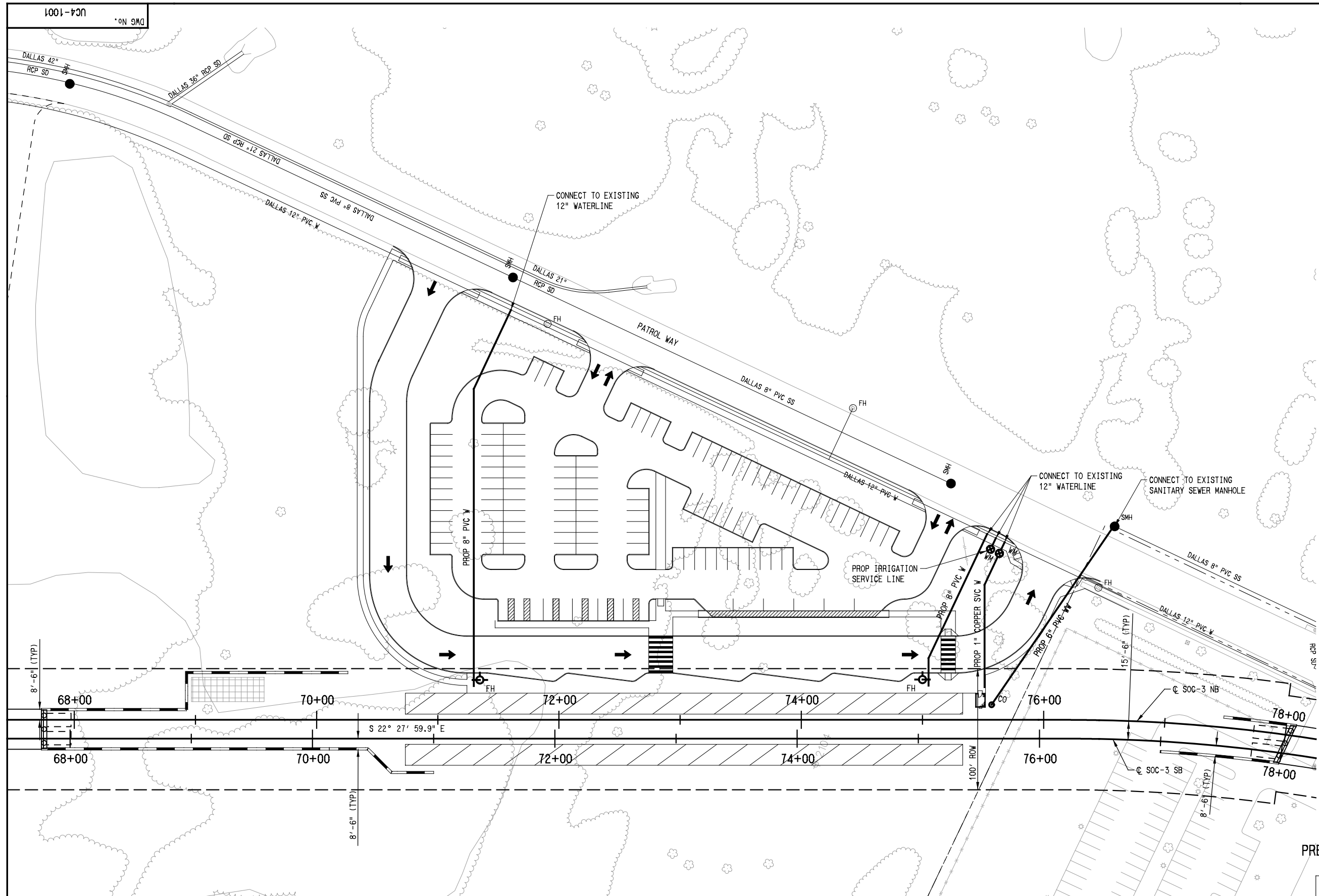
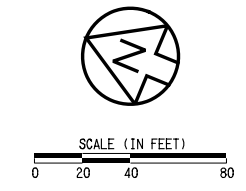
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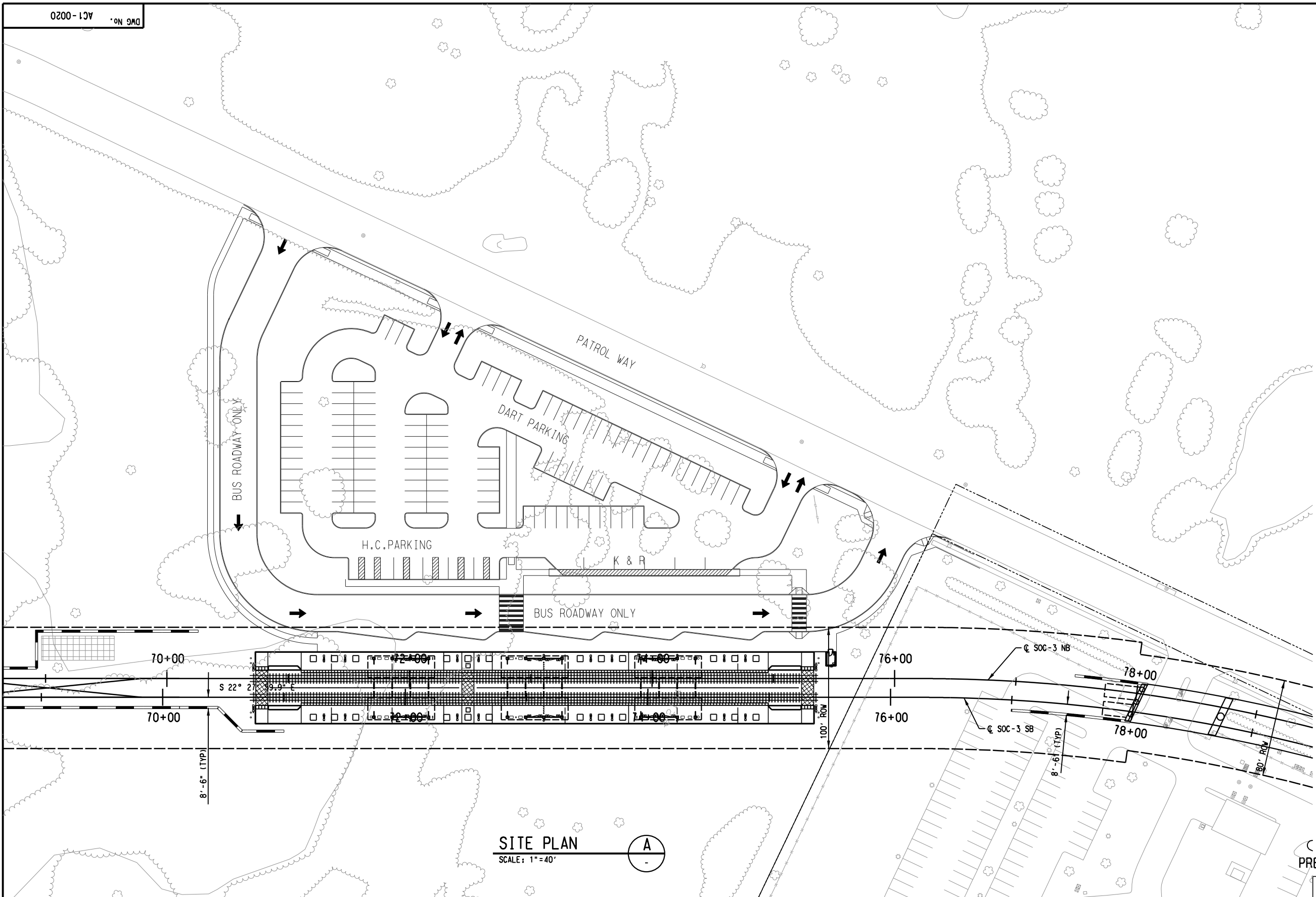
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SCALE 1" = 40'
DRAWN O. DUROSAWO
DESIGNED O. DUROSAWO
CHECKED D. FRANCIS
IN CHARGE D. FRANCIS
DATE 09/14/2012

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
PROPOSED UTILITY PLAN**

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SITE PLAN
SCALE: 1" = 40'
A

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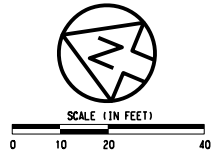
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DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

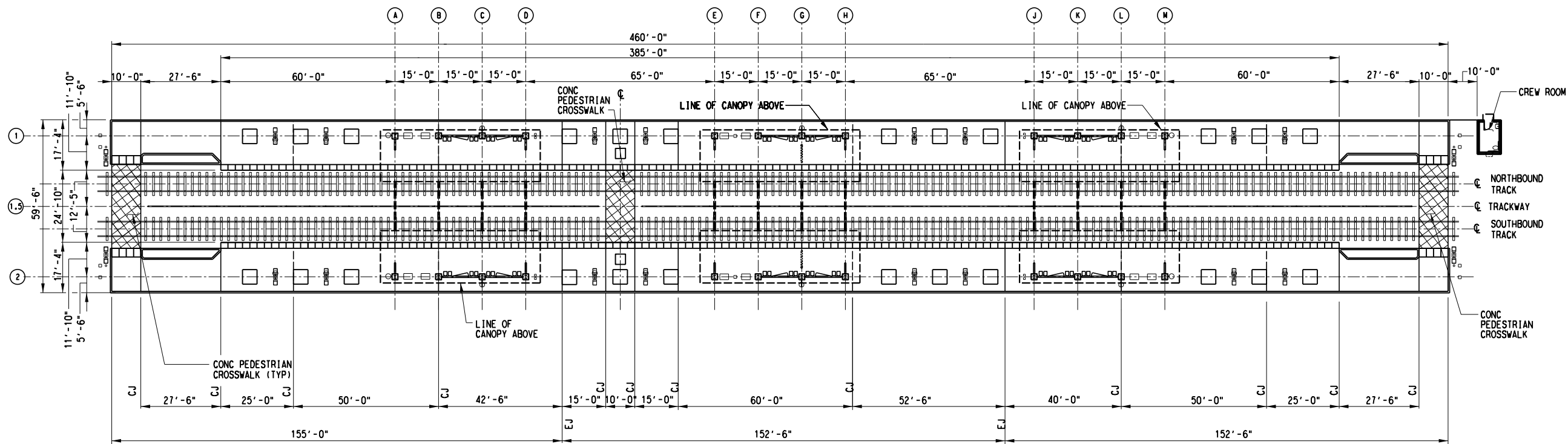
LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3 CAMP WISDOM STATION ARCHITECTURAL SITE PLAN		
CONTRACT	DWG No. AC1-0020	REV -

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OVERALL PLATFORM PLAN A
SCALE: 1"=20'-0"

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
OVERALL PLATFORM PLAN

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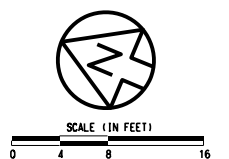
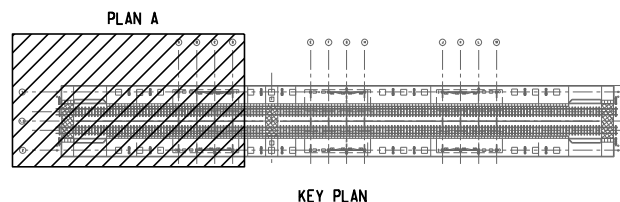
SCALE	1"=20'-0"
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12



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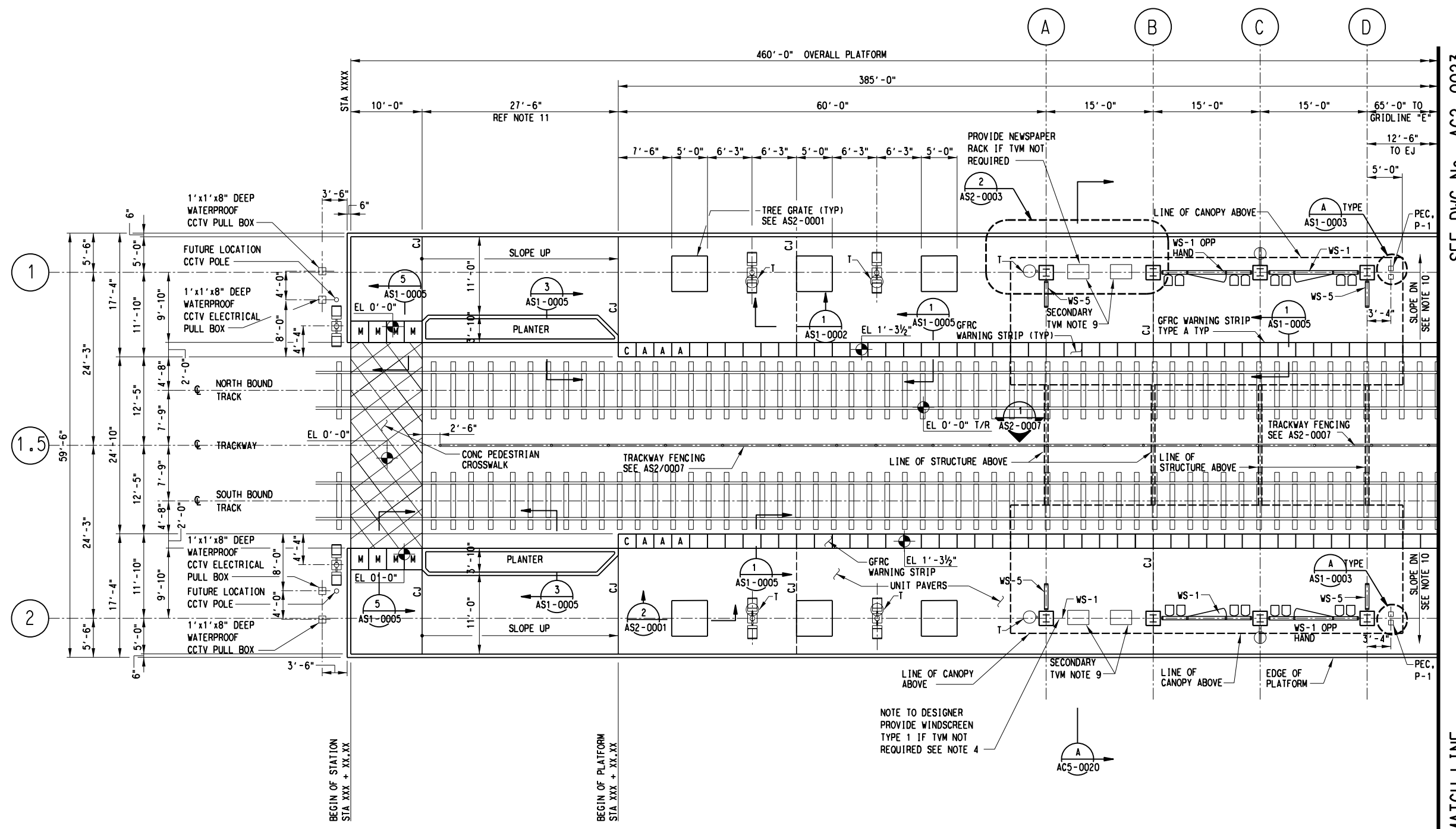
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- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL = 0'-0".
 3. FOR CONDUIT LOCATION IN COLUMN SEE AD9-0007, AD9-0008, AD9-0009, AD9-0010.
 4. ALL POSSIBLE TVM LOCATIONS ARE SHOWN. DESIGNER TO ELIMINATE LOCATIONS NOT REQUIRED BY AGENCY. SEE AS2-0003 FOR DETAIL.
 5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 6. FOR VMB STANCHION DETAIL, SEE AS2-0009.
 7. FOR WINDSCREEN TYPE WS-1, WS-2, WS-5. SEE SHEET AS3-0001, AS3-0002, AS3-0004.
 8. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 9. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 10. PLATFORM CROSS SLOPE MIN. % 1, MAX. % 1.75.
 11. DESIGNER TO ADJUST LENGTH OF RAMP TO MAINTAIN SLOPE OF LESS THAN 4.7% ACCOMMODATING TRACK SLOPE.
 12. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

- AMENITIES LEGEND:
- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
 - M-1 : SYSTEM MAP (NIC)
 - N-3 : NEWSPAPER DISPENSER TYPE 3
 - P-1 : PUBLIC TELEPHONE (NIC)
 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
 - T : TRASH RECEPTACLE (SEE 4,5/ AS2-0002)
 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-1 : WINDSCREEN TYPE 1 SEE DRAWING AS3-0001
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE



SEE DWG No. AC2-0023

PARTIAL PLATFORM PLAN "A"
SCALE: 1/8" = 1'-0"

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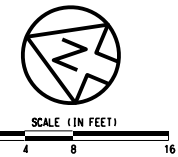
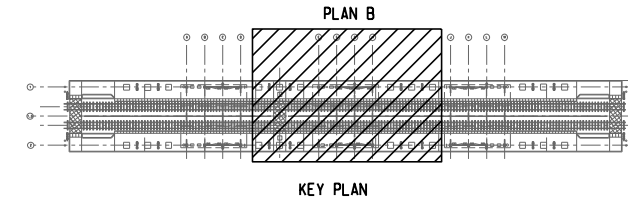
SCALE	AS NOTED
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DESIGNED	V. SADR
CHECKED	J. LIBOURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
PARTIAL PLAN "A"**

CONTRACT DWG No. AC2-0022

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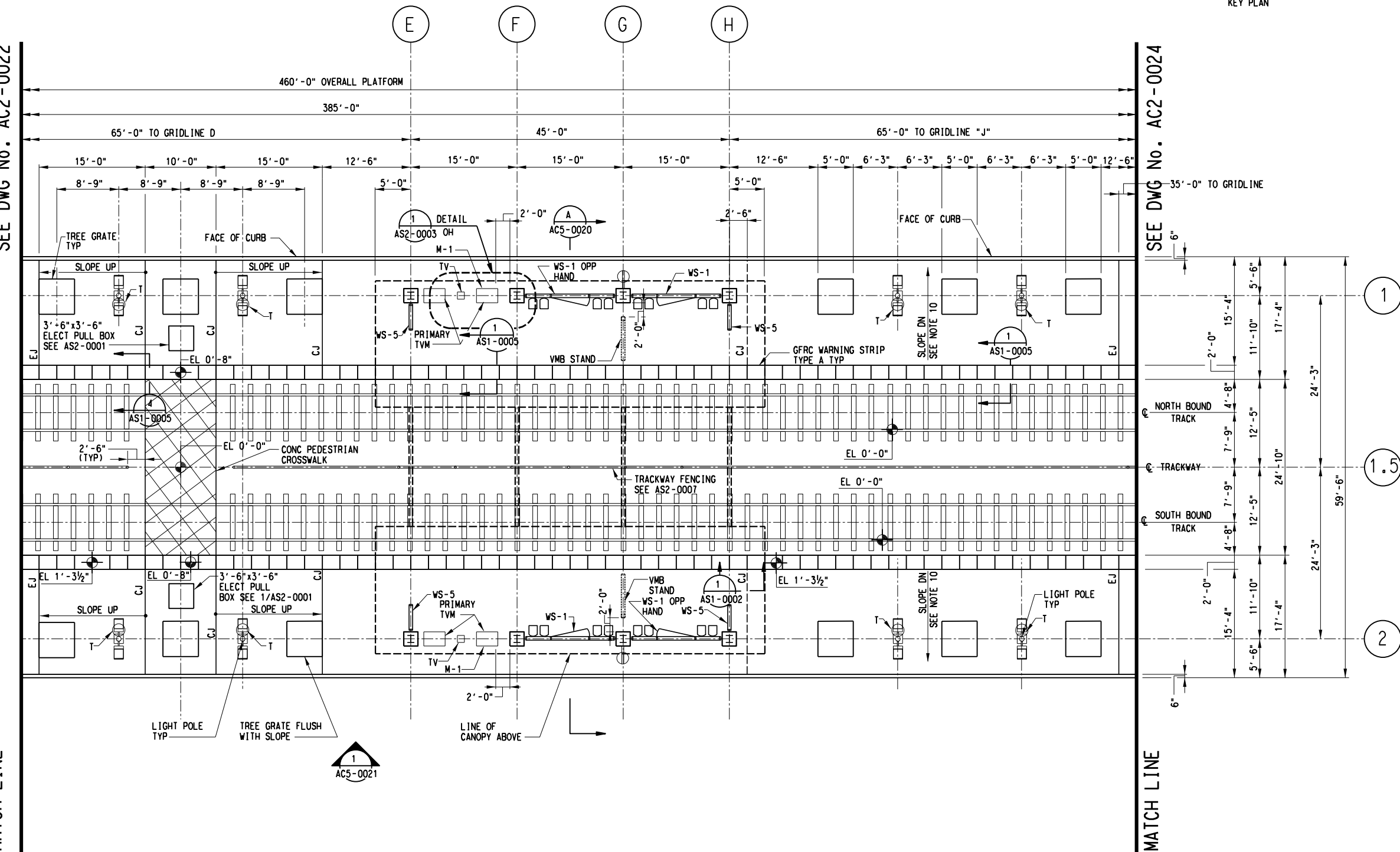


SEE DWG No. AC2-0022

SEE DWG No. AC2-0024

MATCH LINE

MATCH LINE



PARTIAL PLATFORM PLAN "B" SCALE: 1/8" = 1'-0" AC2-0021

- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL = 0'-0".
 3. FOR CONDUIT LOCATION IN COLUMN SEE AD9-0007, AD9-0008, AD9-0009, AD9-0010.
 4. ALL POSSIBLE TVM LOCATIONS ARE SHOWN. DESIGNER TO ELIMINATE LOCATIONS NOT REQUIRED BY AGENCY. SEE AS2-0003 FOR DETAIL.
 5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 6. FOR VMB STANCHION DETAIL, SEE AS2-0009.
 7. FOR WINDSCREEN TYPE WS-1, WS-2, WS-5. SEE SHEET AS3-0001, AS3-0002, AS3-0004.
 8. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 9. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 10. PLATFORM CROSS SLOPE MIN. % 1, MAX. % 1.75.

- AMENITIES LEGEND:
- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
 - M-1 : SYSTEM MAP (NIC)
 - N-3 : NEWSPAPER DISPENSER TYPE 3
 - P-1 : PUBLIC TELEPHONE (NIC)
 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - T : TRASH RECEPTACLE (SEE 4,5/ AS2-0002)
 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-1 : WINDSCREEN TYPE 1 SEE DRAWING AS3-0001
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE

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LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3 CAMP WISDOM STATION PARTIAL PLAN "B"

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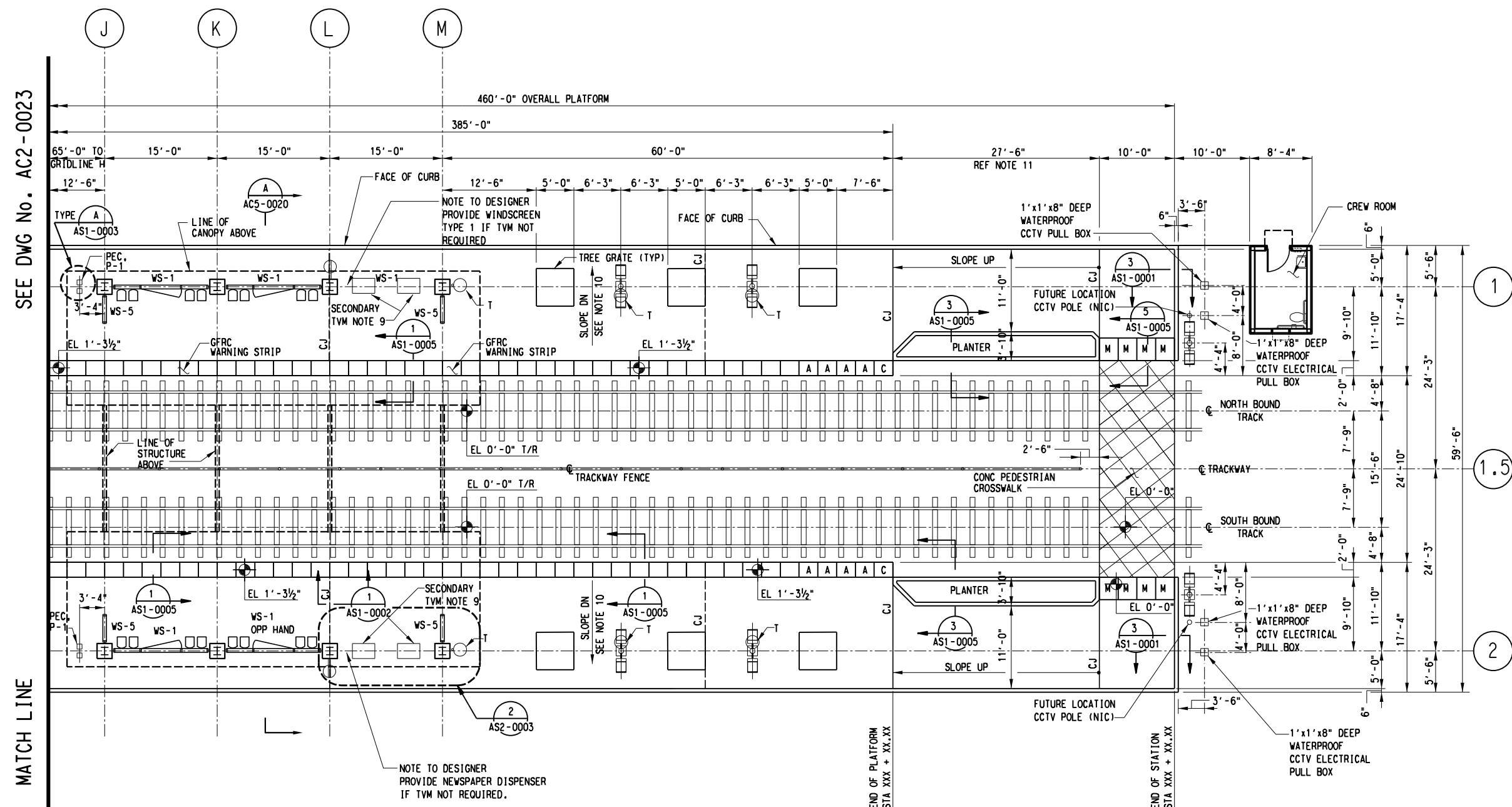
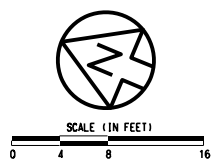
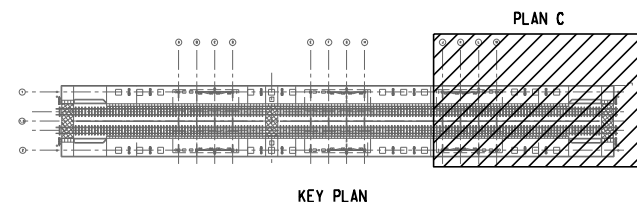
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- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL = 0'-0".
 3. FOR CONDUIT LOCATION IN COLUMN SEE AD9-0007, AD9-0008, AD9-0009, AD9-0010.
 4. ALL POSSIBLE TVM LOCATIONS ARE SHOWN. DESIGNER TO ELIMINATE LOCATIONS NOT REQUIRED BY AGENCY. SEE AS2-0003 FOR DETAIL.
 5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 6. FOR VMB STANCHION DETAIL, SEE AS2-0009.
 7. FOR WINDSCREEN TYPE WS-1, WS-2, WS-5. SEE SHEET AS3-0001, AS3-0002, AS3-0004.
 8. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 9. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 10. PLATFORM CROSS SLOPE MIN. % 1, MAX. % 1.75.
 11. DESIGNER TO ADJUST LENGTH OF RAMP TO MAINTAIN SLOPE OF LESS THAN 4.7% ACCOMMODATING TRACK SLOPE.
 12. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

- AMENITIES LEGEND:
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 - M-1 : SYSTEM MAP (NIC)
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 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
 - T : TRASH RECEPTACLE (SEE 4,5/ AS2-0002)
 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-1 : WINDSCREEN TYPE 1 SEE DRAWING AS3-0001
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE

PARTIAL PLATFORM PLAN "C" SCALE: 1/8" = 1'-0"

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IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3 CAMP WISDOM STATION PARTIAL PLAN "C"

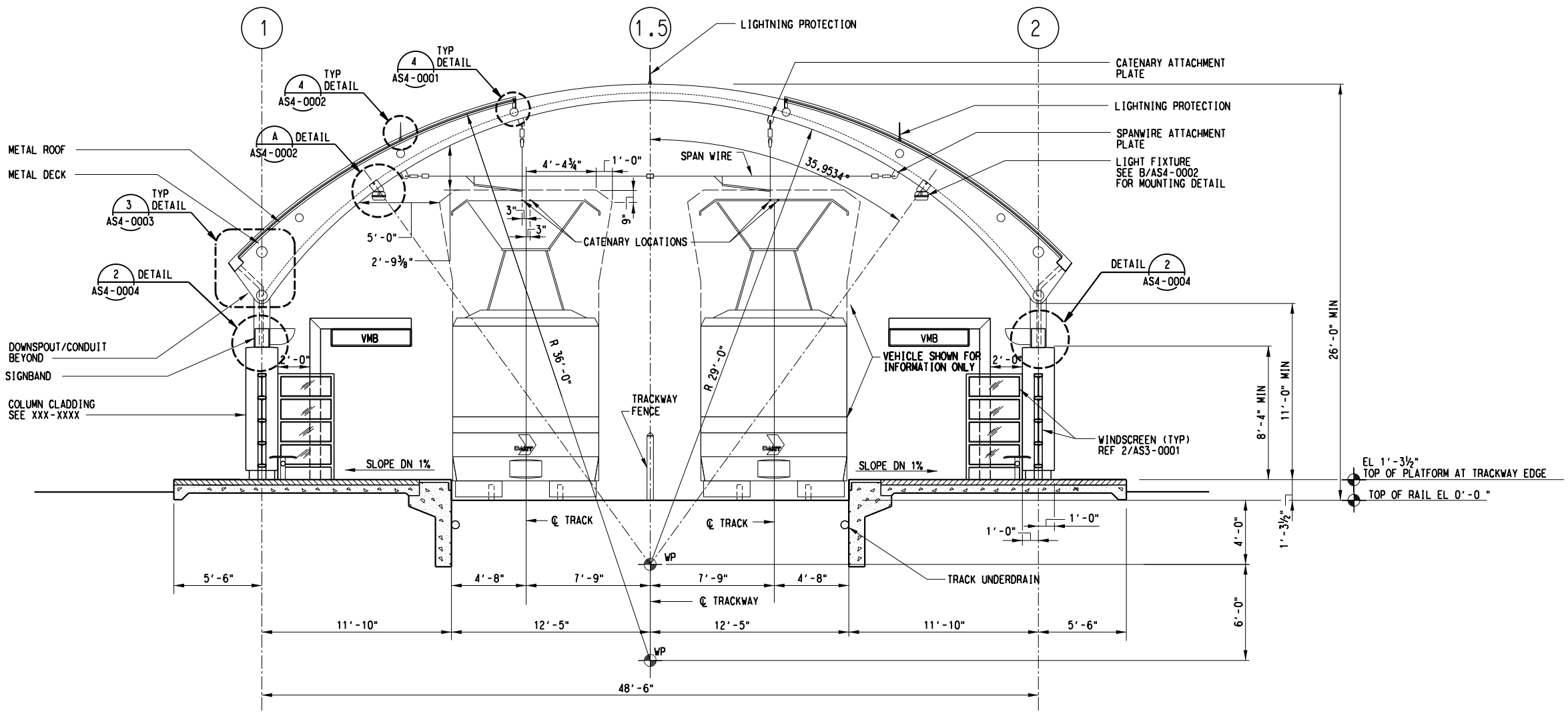
CONTRACT DWG No. AC2-0024

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SEE DWG No. AC2-0023

MATCH LINE

- NOTE:
1. SEE STRUCTURAL DRAWINGS FOR HEIGHT OF CANOPY. SUCH HEIGHT IS RELATIVE TO TOP OF PLATFORM, AND WILL VARY SLIGHTLY DEPENDING ON SITE SPECIFIC CONDITIONS.
 2. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING IS MINIMUM HEIGHT BASED ON A LEVEL PLATFORM ELEVATION. IN ORDER TO MAINTAIN A LEVEL SIGN BAND AND TOP OF CANOPY, THE 8'-4" COLUMN DIMENSION WILL INCREASE ONLY AS PLATFORM GRADING VARIES. THE COLUMN BASE HEIGHT SHALL INCREASE RELATIVE TO INCREASES IN COLUMN HEIGHT PER PLATFORM SLOPE.
 3. FOR PAINT AND FINISH SCHEDULE SEE XXX-XXXX.
 4. STEP WINDSCREEN WITH PLATFORM SLOPE BUT MAINTAIN SCREEN FRAME PLUMB AND LEVEL.
 5. SEE STRUCTURAL PLANS FOR PLATFORM GRADE.



OVERALL SECTION A
SCALE: 1/4" = 1'-0"

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CONTRACT SHEET No. 27 OF 44

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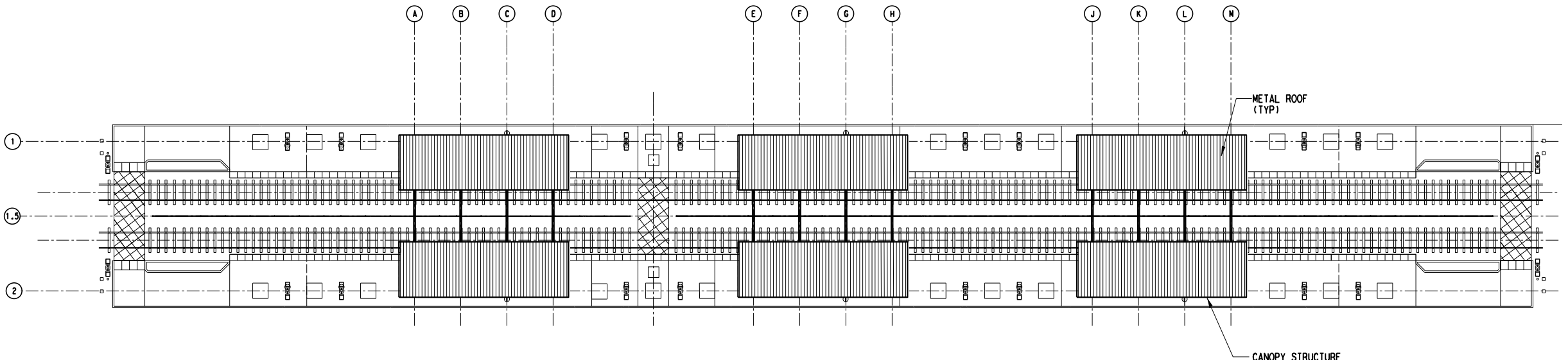
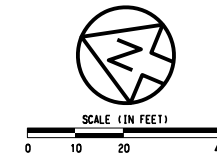
SCALE	AS NOTED
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBURDY
IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
OVERALL CROSS SECTION

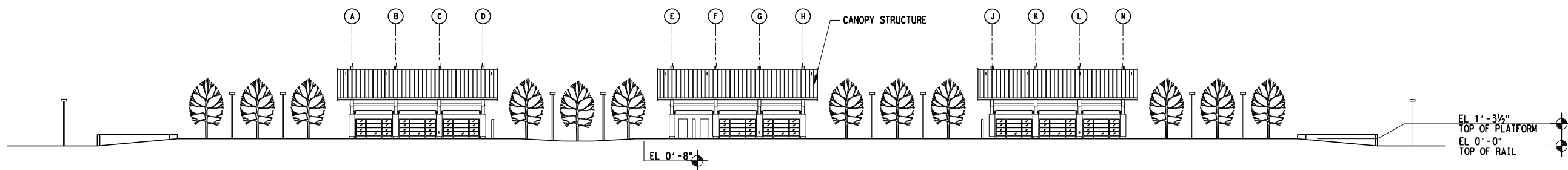
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	AC5-0020	-

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OVERALL ROOF PLAN A
SCALE: 1"=20'-0"



OVERALL ELEVATION 1
SCALE: 1"=20'-0"

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PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 28 OF 44

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
CAMP WISDOM STATION
OVERALL ROOF PLAN AND
OVERALL ELEVATION

Revision table with columns: REV, AMEND, CR, DATE, DESCRIPTION, BY, ENG, CHK, APP

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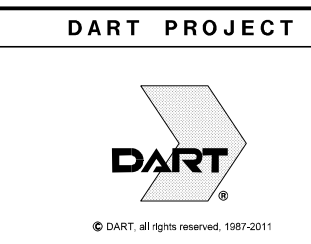


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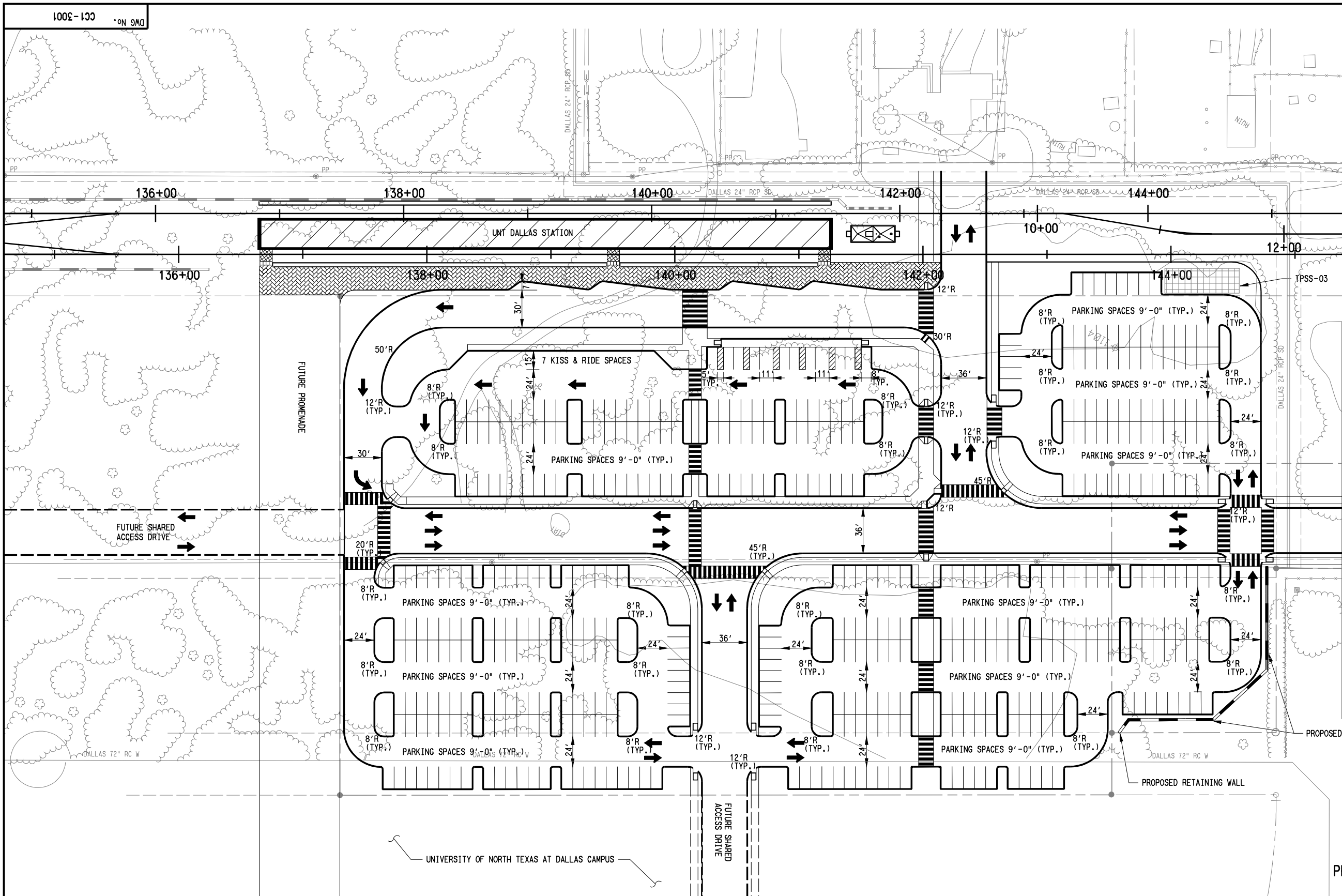
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SCALE (IN FEET)
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PARKING TABULATION

	PROVIDED
BUS BAYS	4
HC ACCESSIBLE	12
KISS & RIDE	7
PARK & RIDE (INCL. HC ACCESSIBLE & KISS/RIDE)	481



MATCH LINE - SEE DWG No. SOC-CC1-3002

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CONTRACT SHEET No. 29 OF 44

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

UNT DALLAS STATION
CIVIL SITE PLAN
SHEET 1 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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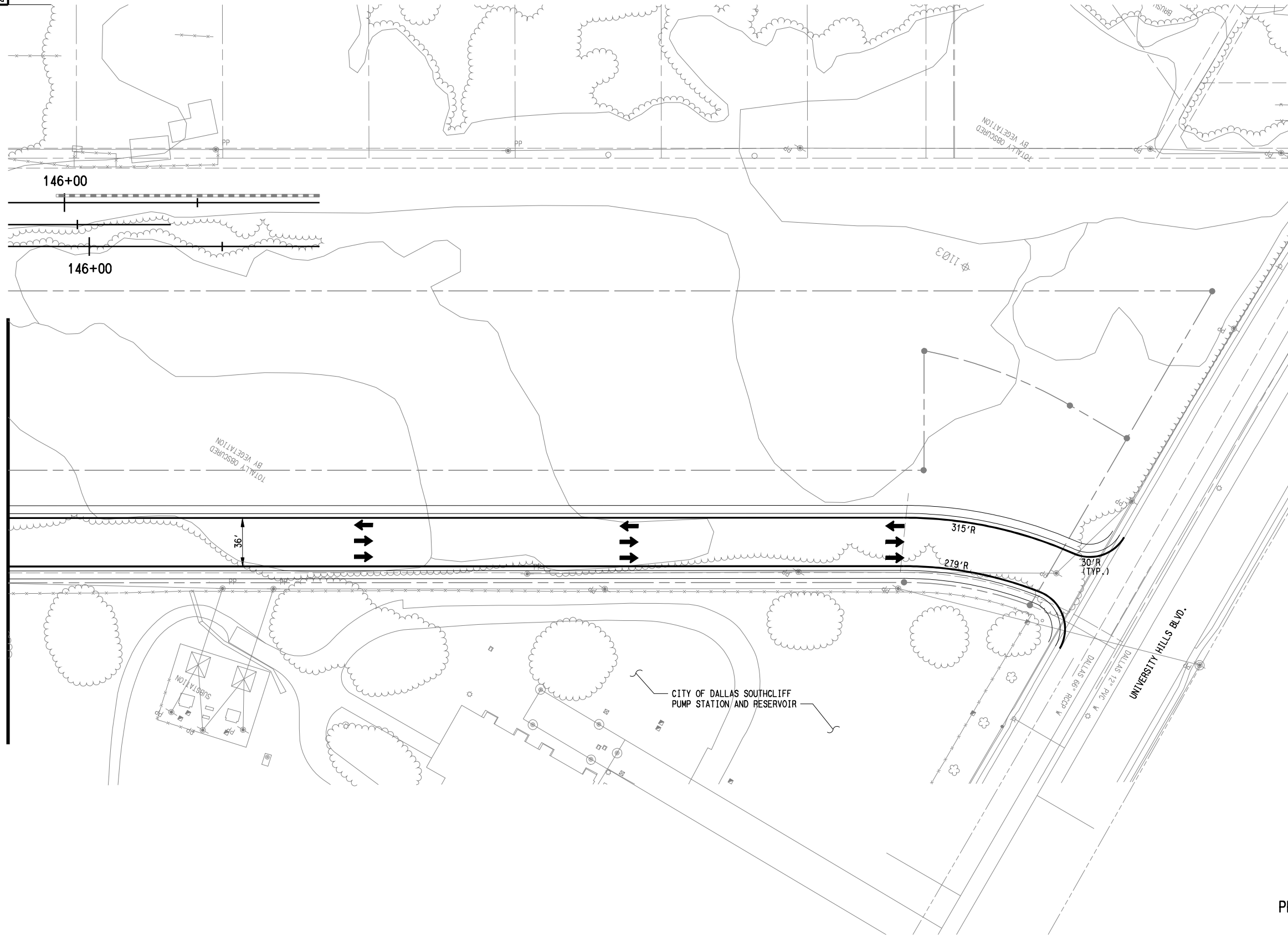
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DESIGNED	E.EMERINE
CHECKED	L.BEENKEN
IN CHARGE	P. ZHAO
DATE	09/14/2012



CONTRACT	DWG No.	CC1-3001	REV
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MATCH LINE - SEE DWG No. SOC3-CC1-3001

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CAES	

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3**

**UNT DALLAS STATION
CIVIL SITE PLAN
SHEET 2 OF 2**

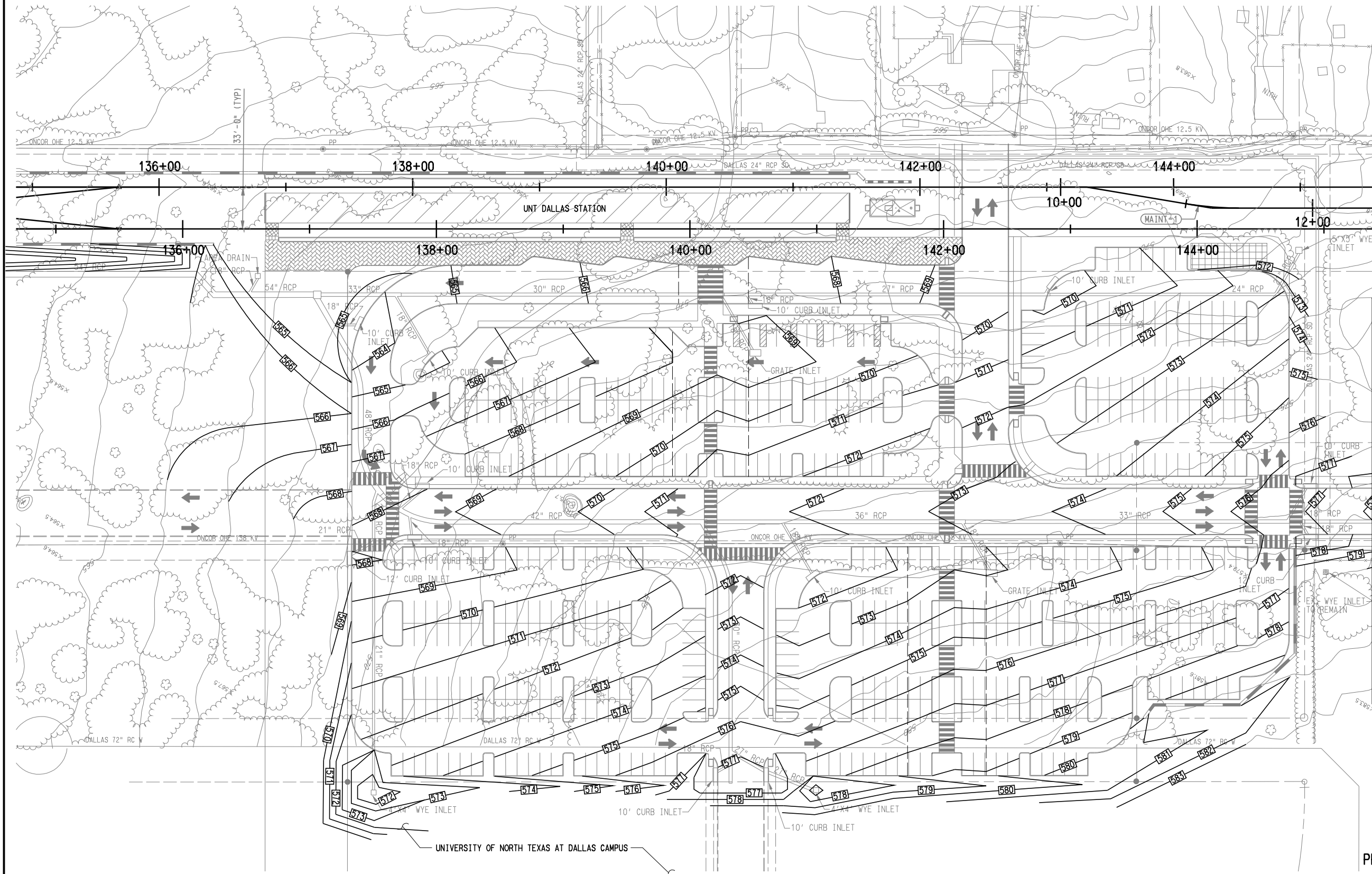
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SCALE (IN FEET)
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MATCH LINE - SEE DWG No. SOC-GC1-3002

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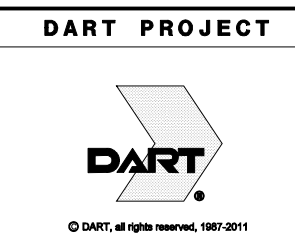
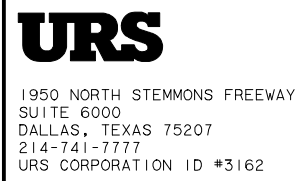
CONTRACT SHEET No. 31 OF 44

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

UNT DALLAS STATION
GRADING PLAN
SHEET 1 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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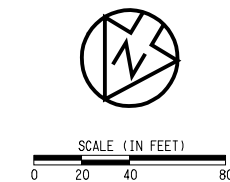


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DESIGNED	E.EMERINE
CHECKED	L.BEENKEN
IN CHARGE	P. ZHAO
DATE	09/14/2012

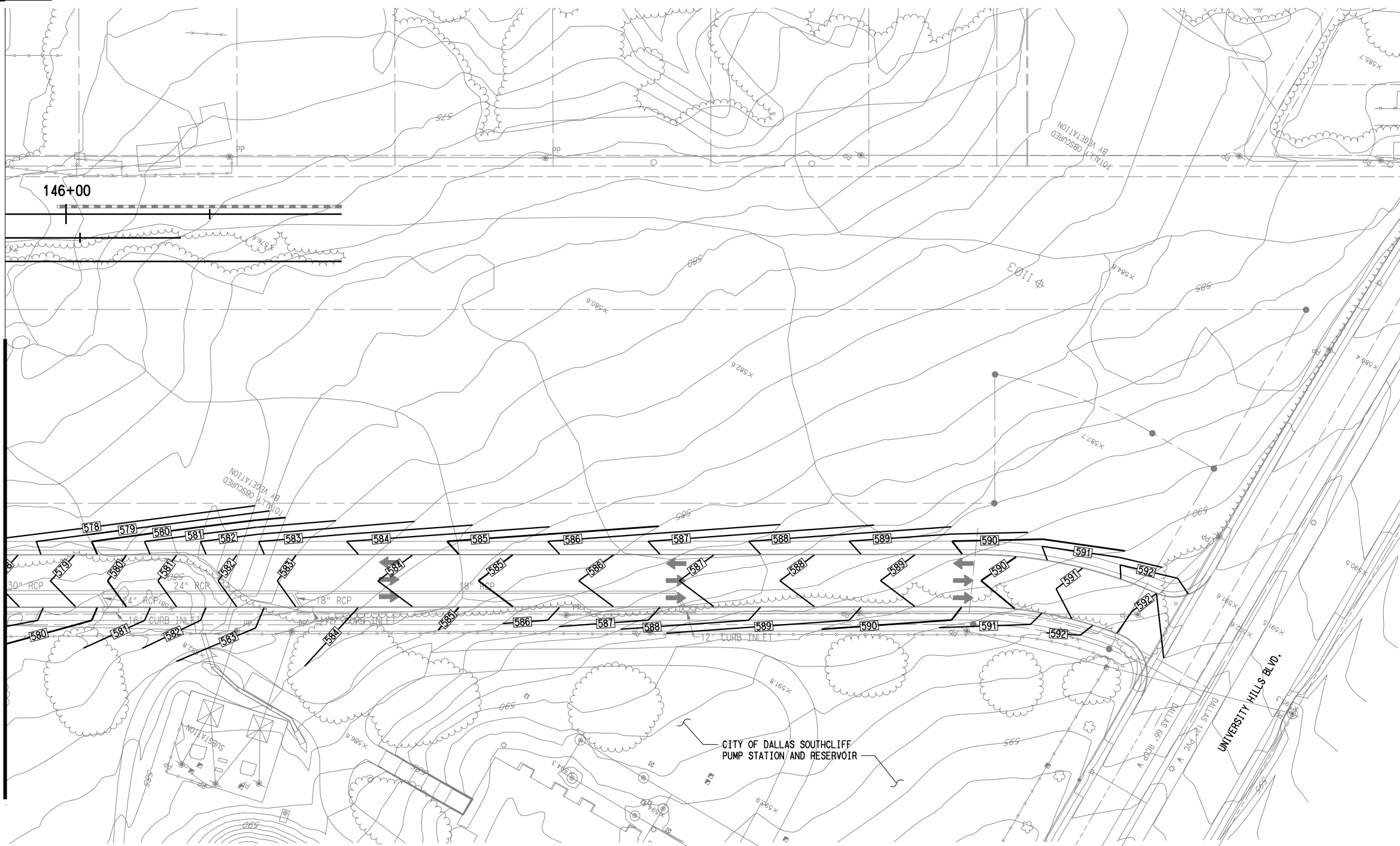
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MATCH LINE - SEE DWG No. SOC3-GC1-3001



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CONTRACT SHEET No. 32 OF 44

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3

UNT DALLAS STATION
GRADING PLAN
SHEET 2 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CONTRACT	DWG No.	GC1-3002	REV
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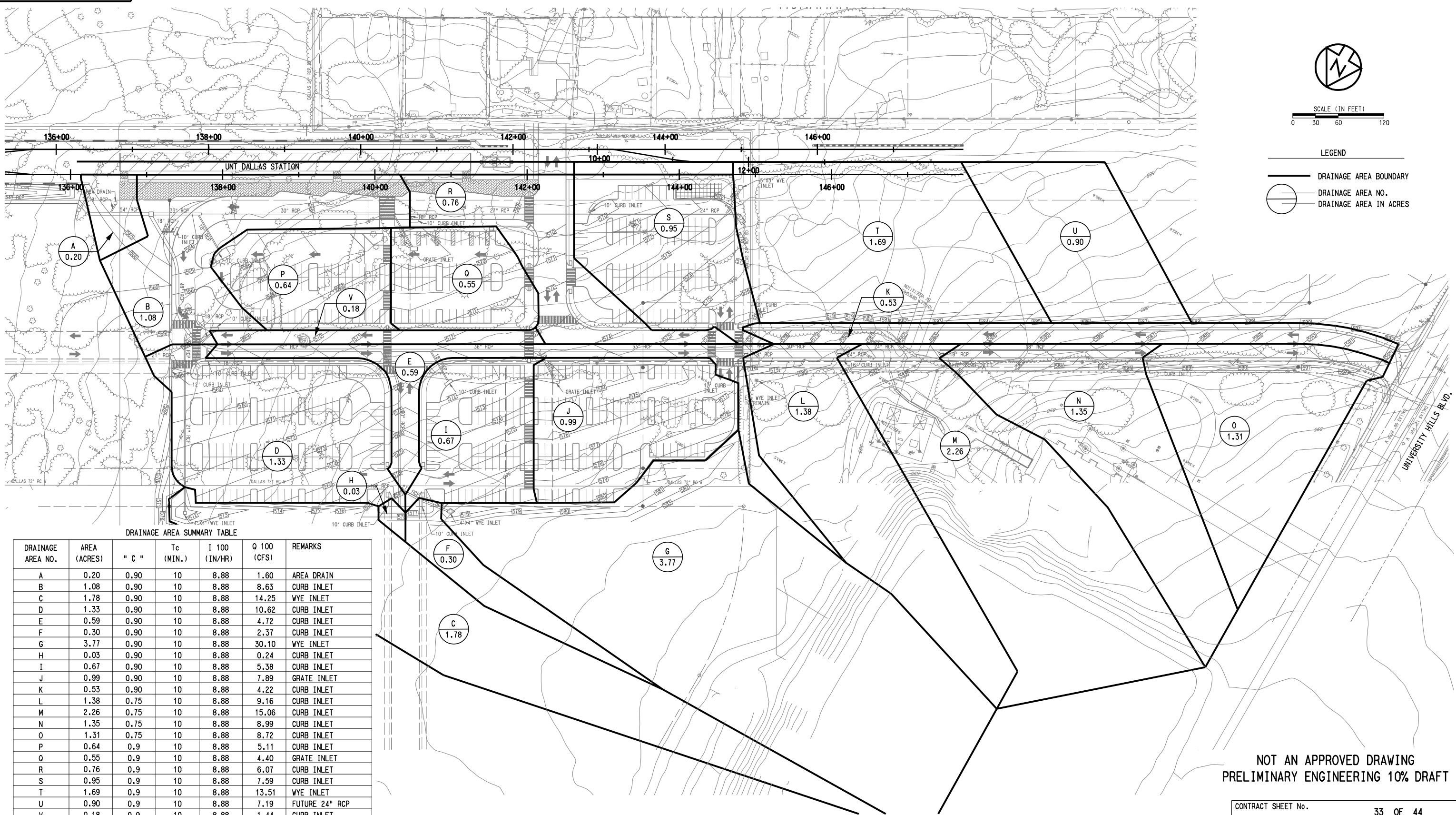
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SCALE (IN FEET)
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LEGEND

- DRAINAGE AREA BOUNDARY
- DRAINAGE AREA NO.
- DRAINAGE AREA IN ACRES



DRAINAGE AREA SUMMARY TABLE

DRAINAGE AREA NO.	AREA (ACRES)	" C "	Tc (MIN.)	I 100 (IN/HR)	Q 100 (CFS)	REMARKS
A	0.20	0.90	10	8.88	1.60	AREA DRAIN
B	1.08	0.90	10	8.88	8.63	CURB INLET
C	1.78	0.90	10	8.88	14.25	WYE INLET
D	1.33	0.90	10	8.88	10.62	CURB INLET
E	0.59	0.90	10	8.88	4.72	CURB INLET
F	0.30	0.90	10	8.88	2.37	CURB INLET
G	3.77	0.90	10	8.88	30.10	WYE INLET
H	0.03	0.90	10	8.88	0.24	CURB INLET
I	0.67	0.90	10	8.88	5.38	CURB INLET
J	0.99	0.90	10	8.88	7.89	GRATE INLET
K	0.53	0.90	10	8.88	4.22	CURB INLET
L	1.38	0.75	10	8.88	9.16	CURB INLET
M	2.26	0.75	10	8.88	15.06	CURB INLET
N	1.35	0.75	10	8.88	8.99	CURB INLET
O	1.31	0.75	10	8.88	8.72	CURB INLET
P	0.64	0.9	10	8.88	5.11	CURB INLET
Q	0.55	0.9	10	8.88	4.40	GRATE INLET
R	0.76	0.9	10	8.88	6.07	CURB INLET
S	0.95	0.9	10	8.88	7.59	CURB INLET
T	1.69	0.9	10	8.88	13.51	WYE INLET
U	0.90	0.9	10	8.88	7.19	FUTURE 24" RCP
V	0.18	0.9	10	8.88	1.44	CURB INLET

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
DRAINAGE AREA MAP

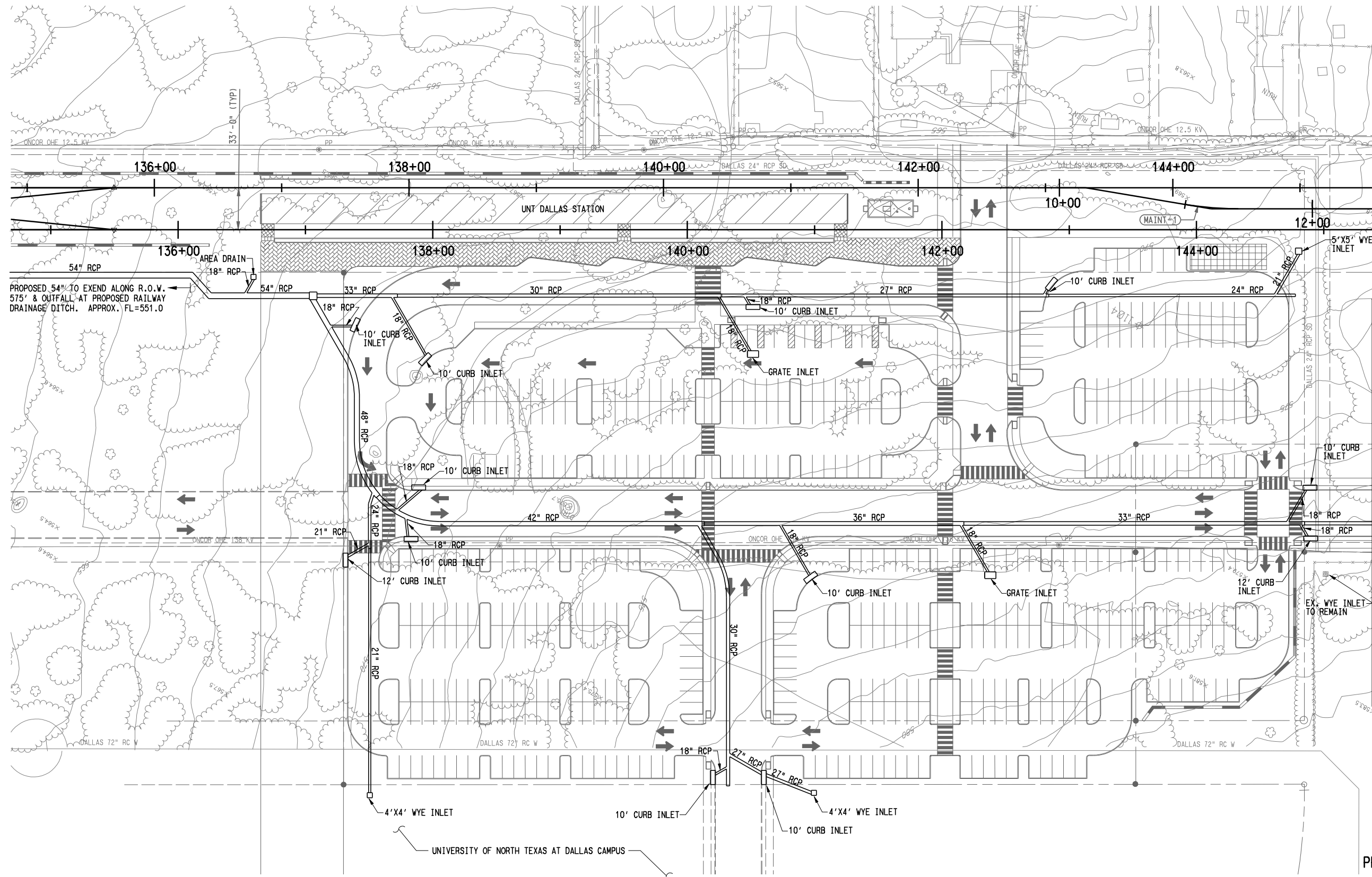
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SCALE (IN FEET)
0 20 40 80



PROPOSED 54" RCP TO EXTEND ALONG R.O.W. 575' & OUTFALL AT PROPOSED RAILWAY DRAINAGE DITCH. APPROX. FL=551.0

MATCH LINE - SEE DWG No. SOC-CC6-3003

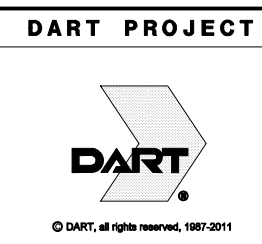
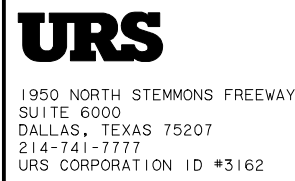
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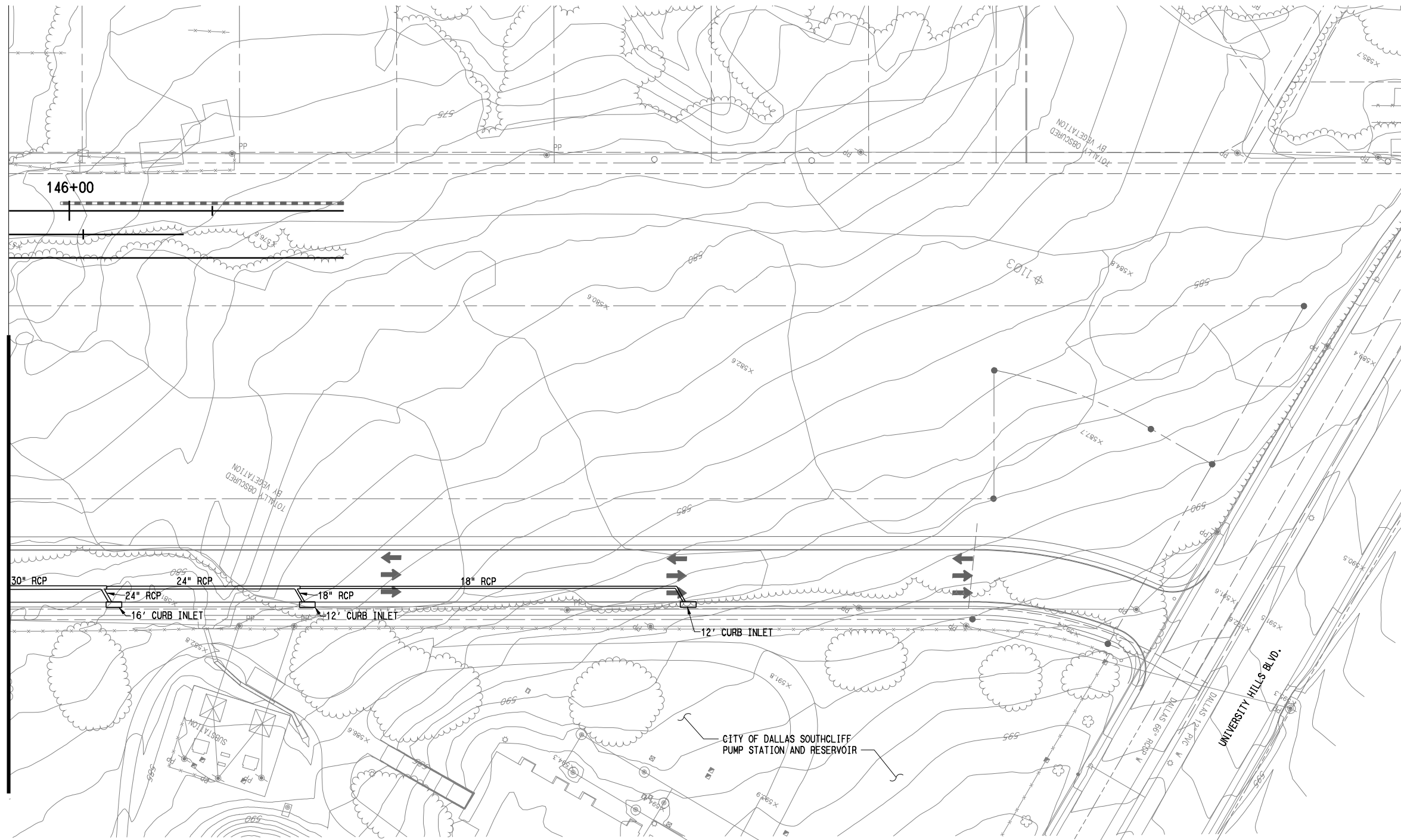
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DESIGNED	E.EMERINE
CHECKED	L.BEENKEN
IN CHARGE	P. ZHAO
DATE	09/14/2012
CAES	

CONTRACT SHEET No.	34 OF 44
LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3	
UNT DALLAS STATION DRAINAGE PLAN SHEET 1 OF 2	
CONTRACT	DWG No. CC6-3002
REV	

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SCALE (IN FEET)
0 20 40 80



MATCH LINE - SEE DWG NO. SOC3-CC6-3002

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CONTRACT SHEET No. 35 OF 44

LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3

UNT DALLAS STATION
DRAINAGE PLAN
SHEET 2 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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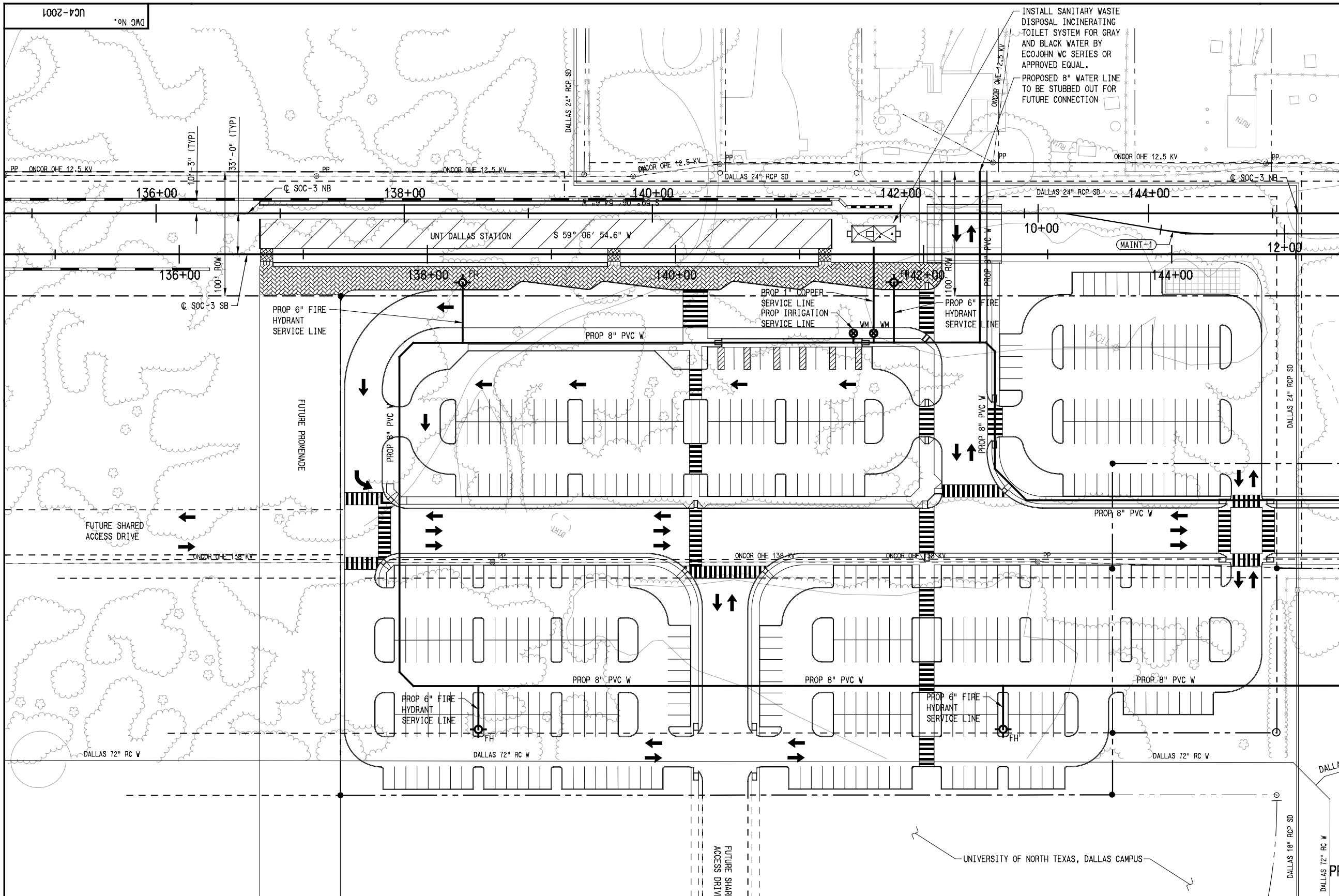
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DESIGNED	E.EMERINE
CHECKED	L.BEENKEN
IN CHARGE	P. ZHAO
DATE	09/14/2012



CONTRACT DWG No. CC6-3003 REV

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SCALE (IN FEET)
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MATCH LINE - SEE DWG No. SOC-UC4-2002

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CONTRACT SHEET No.		36 OF 44
<p align="center">LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3</p> <p align="center">UNT DALLAS STATION PROPOSED UTILITY PLAN SHEET 1 OF 2</p>		
CONTRACT	DWG No.	UC4-2001
		REV

SCALE	1" = 40'
DRAWN	O. DUROSAWO
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	09/14/2012

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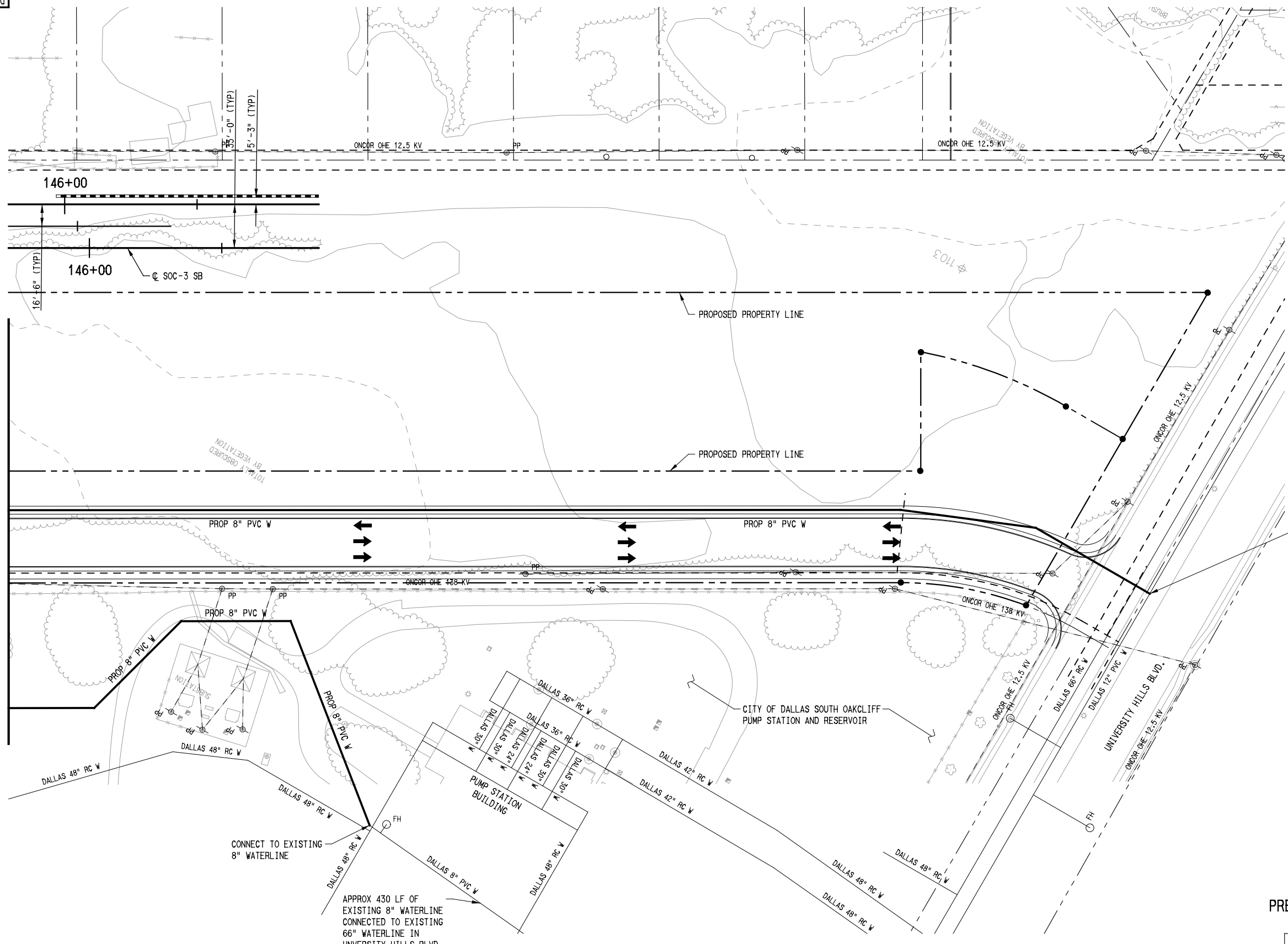
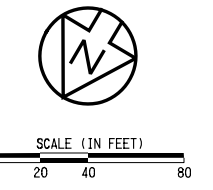
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UC4-2001

DWG No.



MATCH LINE - SEE DWG No. SOC3-UC4-2001

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
PROPOSED UTILITY PLAN
SHEET 2 OF 2

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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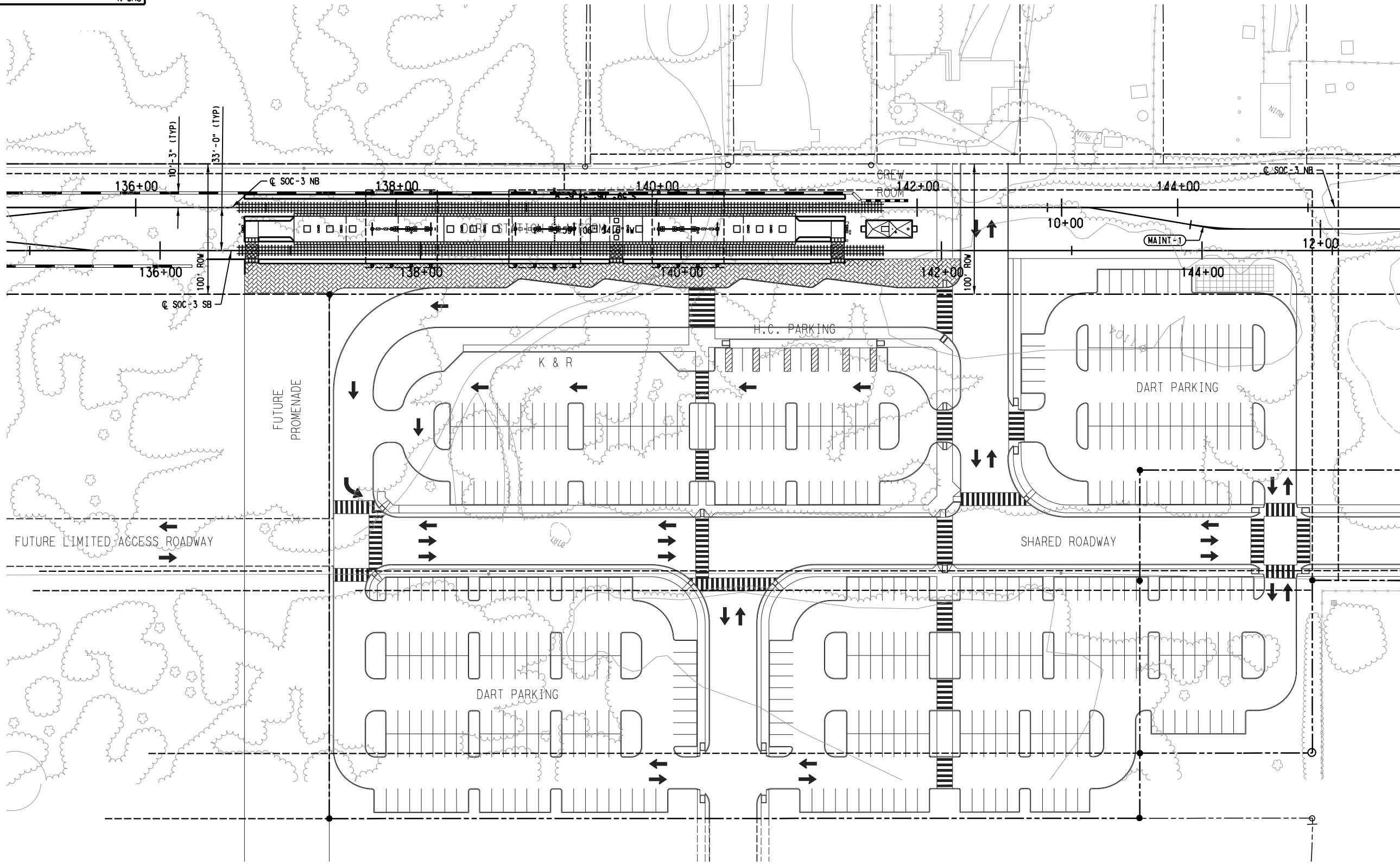
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SCALE	1" = 40'
DRAWN	O. DUROSAWO
DESIGNED	O. DUROSAWO
CHECKED	D. FRANCIS
IN CHARGE	D. FRANCIS
DATE	09/14/2012

CONTRACT	DWG No. UCA-2002	REV
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SITE PLAN
SCALE: 1" = 40'
A

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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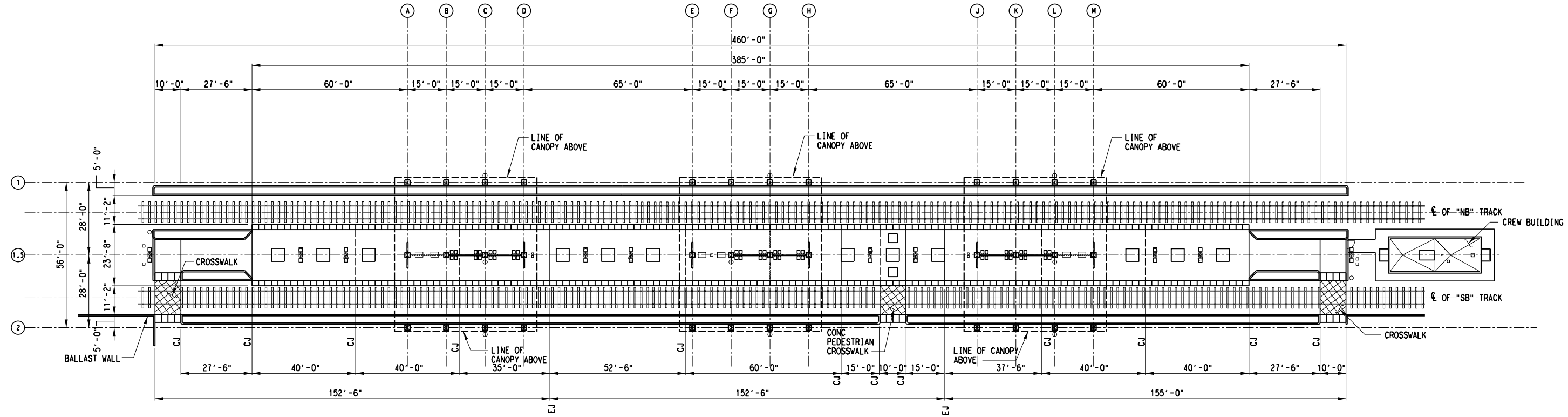
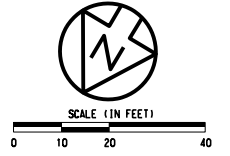
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SCALE	1" = 40' - 0"
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBURDY
IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM LINE SECTION SOC-3 UNT DALLAS STATION ARCHITECTURAL SITE PLAN		
CONTRACT	DWG No. AC1-0030	REV -



OVERALL PLATFORM PLAN A
SCALE: 1"=20'-0"

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CONTRACT SHEET No. 39 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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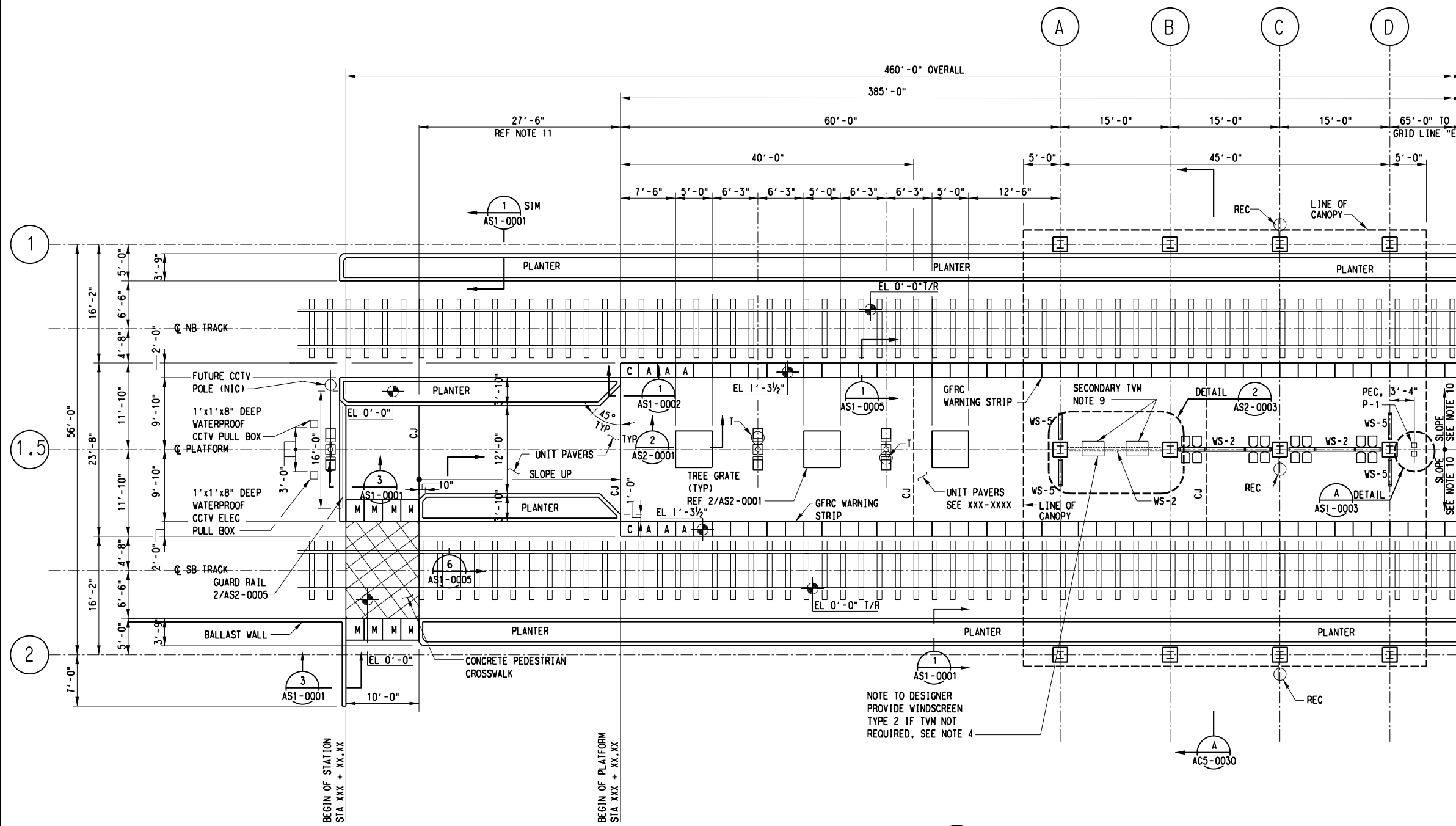
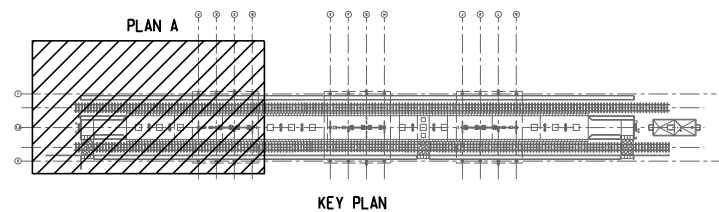
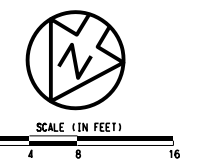
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SCALE	1"=20'-0"
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
OVERALL PLATFORM PLAN**

CONTRACT DWG No. AC2-0031 REV -

\$USER\$\$\$\$
\$\$MODEL\$\$



- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL = 0'-0".
 3. FOR CONDUIT LOCATION IN COLUMN SEE AD9-0007, AD9-0008, AD9-0009, AD9-0010.
 4. ALL POSSIBLE TVM LOCATIONS ARE SHOWN. DESIGNER TO ELIMINATE LOCATIONS NOT REQUIRED BY AGENCY. SEE AS2-0003 FOR DETAIL.
 5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 6. FOR VMB STANCHION DETAIL, SEE AS2-0009.
 7. FOR WINDSCREEN TYPE WS-1, WS-2, WS-5. SEE SHEET AS3-0001, AS3-0002, AS3-0004.
 8. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 9. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 10. PLATFORM CROSS SLOPE DOWN TOWARD TRACK MIN. 1/4", MAX. 1/2".
 11. DESIGNER TO ADJUST LENGTH OF RAMP TO MAINTAIN SLOPE OF LESS THAN 4.7% ACCOMMODATING TRACK SLOPE.
 12. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

- AMENITIES LEGEND:
- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
 - M-1 : SYSTEM MAP (NIC)
 - N-3 : NEWSPAPER DISPENSER TYPE 3
 - P-1 : PUBLIC TELEPHONE (NIC)
 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
 - T : TRASH RECEPTACLE (SEE 4,5/ AS2-0002)
 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-2 : WINDSCREEN TYPE 2 SEE DRAWING AS3-0002
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE

PARTIAL PLATFORM PLAN "A"
SCALE: 1/8" = 1'-0"

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 40 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

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SCALE	AS NOTED
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
PARTIAL PLAN "A"

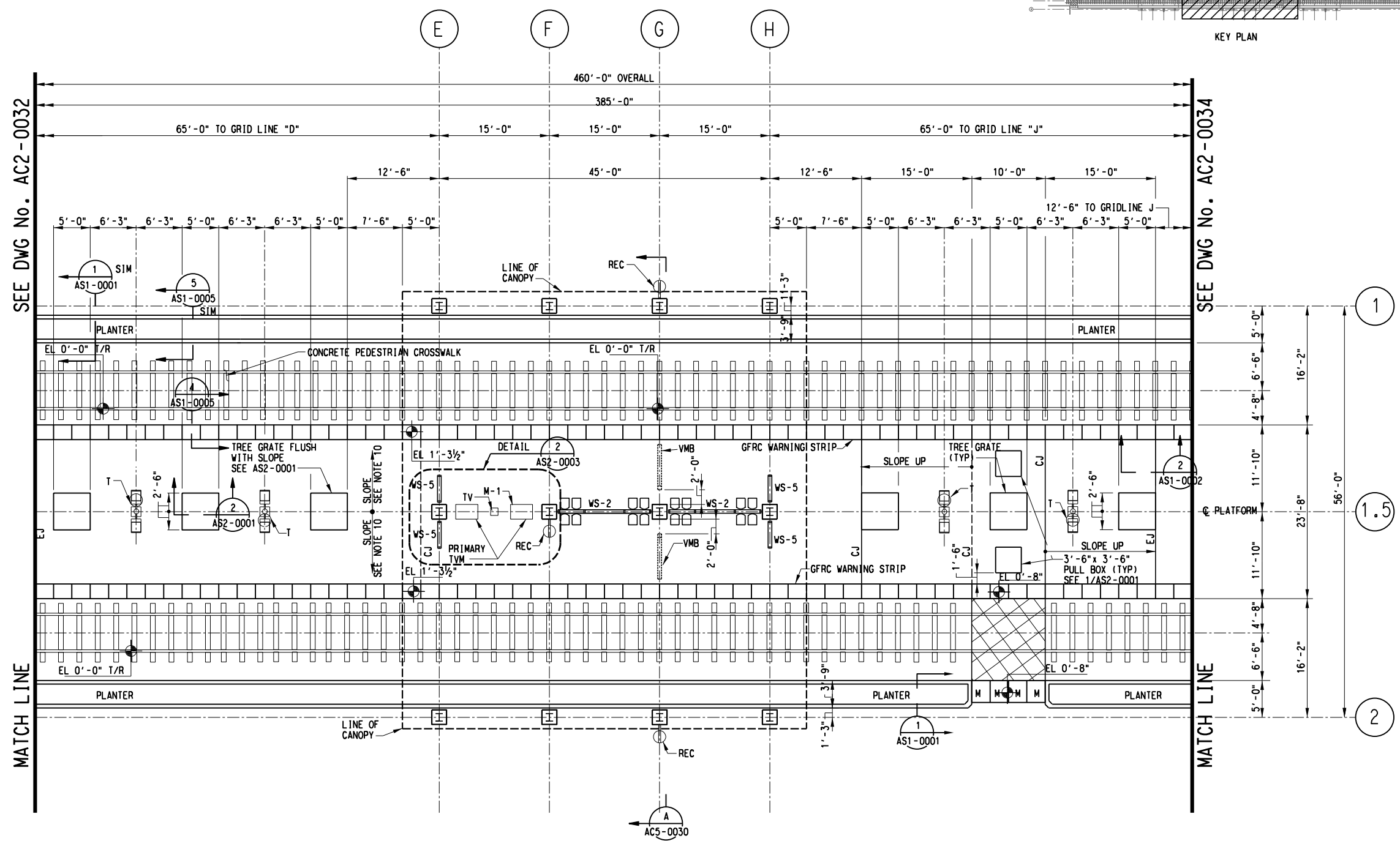
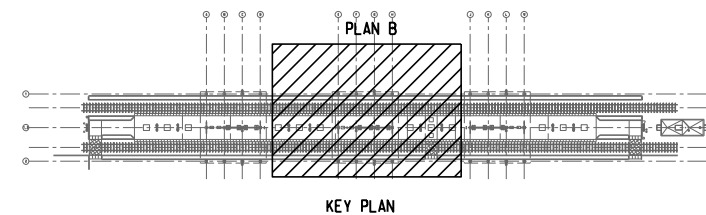
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SEE DWG No. AD1-0003

MATCH LINE



- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL= 0'-0".
 3. FOR CONDUIT LOCATION IN COLUMN SEE AD9-0007, AD9-0008, AD9-0009, AD9-0010.
 4. ALL POSSIBLE TVM LOCATIONS ARE SHOWN. DESIGNER TO ELIMINATE LOCATIONS NOT REQUIRED BY AGENCY. SEE AS2-0003 FOR DETAIL.
 5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 6. FOR VMB STANCHION DETAIL, SEE AS2-0009.
 7. FOR WINDSCREEN TYPE WS-1, WS-2, WS-5. SEE SHEET AS3-0001, AS3-0002, AS3-0004.
 8. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 9. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 10. PLATFORM CROSS SLOPE DOWN TOWARD TRACK MIN. % 1, MAX. % 1.75.

- AMENITIES LEGEND:
- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
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 - P-1 : PUBLIC TELEPHONE (NIC)
 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
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 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-2 : WINDSCREEN TYPE 2 SEE DRAWING AS3-0002
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE

PARTIAL PLATFORM PLAN "B"
SCALE: 1/8" = 1'-0"
A AC2-0031

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PRELIMINARY ENGINEERING 10% DESIGN

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DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
PARTIAL PLAN "B"**

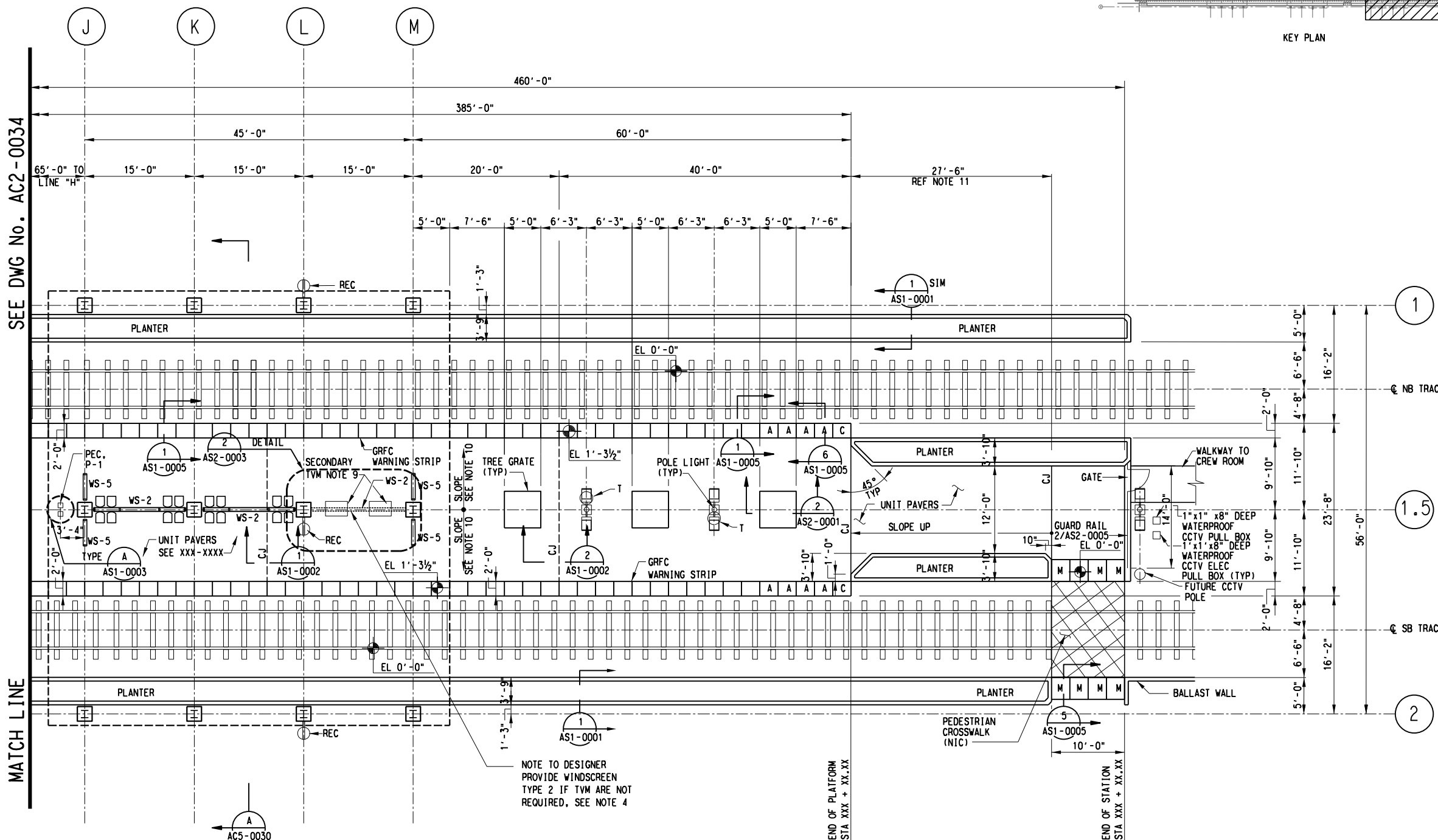
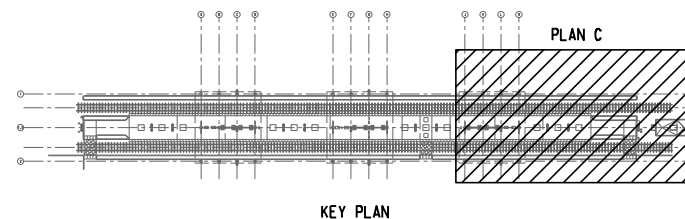
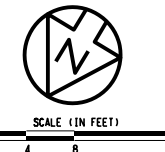
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- NOTES:
1. TRACK AND TIES ARE INDICATED FOR INFORMATION PURPOSE ONLY.
 2. TOP OF RAIL = 0'-0".
 3. FOR CONDUIT LOCATION IN COLUMN SEE AD9-0007, AD9-0008, AD9-0009, AD9-0010.
 4. ALL POSSIBLE TVM LOCATIONS ARE SHOWN. DESIGNER TO ELIMINATE LOCATIONS NOT REQUIRED BY AGENCY. SEE AS2-0003 FOR DETAIL.
 5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE SEE AS1-0007.
 6. FOR VMB STANCHION DETAIL, SEE AS2-0009.
 7. FOR WINDSCREEN TYPE WS-1, WS-2, WS-5. SEE SHEET AS3-0001, AS3-0002, AS3-0004.
 8. FOR BICYCLE RACK, BICYCLE LOCKER, TRASH RECEPTACLE AND NEWSPAPER RACK SEE AS2-0002.
 9. DESIGNER TO COORDINATE THE NEED FOR SECONDARY TVM LOCATION WITH AGENCY.
 10. PLATFORM CROSS SLOPE DOWN TOWARD TRACK MIN. 1/4%, MAX. 1.75%.
 11. DESIGNER TO ADJUST LENGTH OF RAMP TO MAINTAIN SLOPE OF LESS THAN 4.7% ACCOMMODATING TRACK SLOPE.
 12. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.

- AMENITIES LEGEND:
- CCTV : CLOSED CIRCUIT TELEVISION (NIC FUTURE)
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 - N-3 : NEWSPAPER DISPENSER TYPE 3
 - P-1 : PUBLIC TELEPHONE (NIC)
 - PA : PUBLIC ANNOUNCEMENT SEE ELECTRICAL DRAWINGS FOR LOCATION
 - PEC : PASSENGER EMERGENCY CALL WITH BLUE LIGHT
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 - TV : TICKET VALIDATOR J-BOX
 - TVM : TICKET VENDING MACHINE BASE
 - VMB : VISUAL MESSAGE BOARD STANCHION
 - WS-2 : WINDSCREEN TYPE 2 SEE DRAWING AS3-0002
 - WS-5 : WINDSCREEN TYPE 5 SEE DRAWING AS3-0004
 - REC : ELECTRICAL RECEPTACLE

PARTIAL PLATFORM PLAN "C"
SCALE: 1/8" = 1'-0"

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CONTRACT SHEET No. 42 OF 44

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIDBURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
PARTIAL PLAN "C"**

CONTRACT	DWG No.	REV
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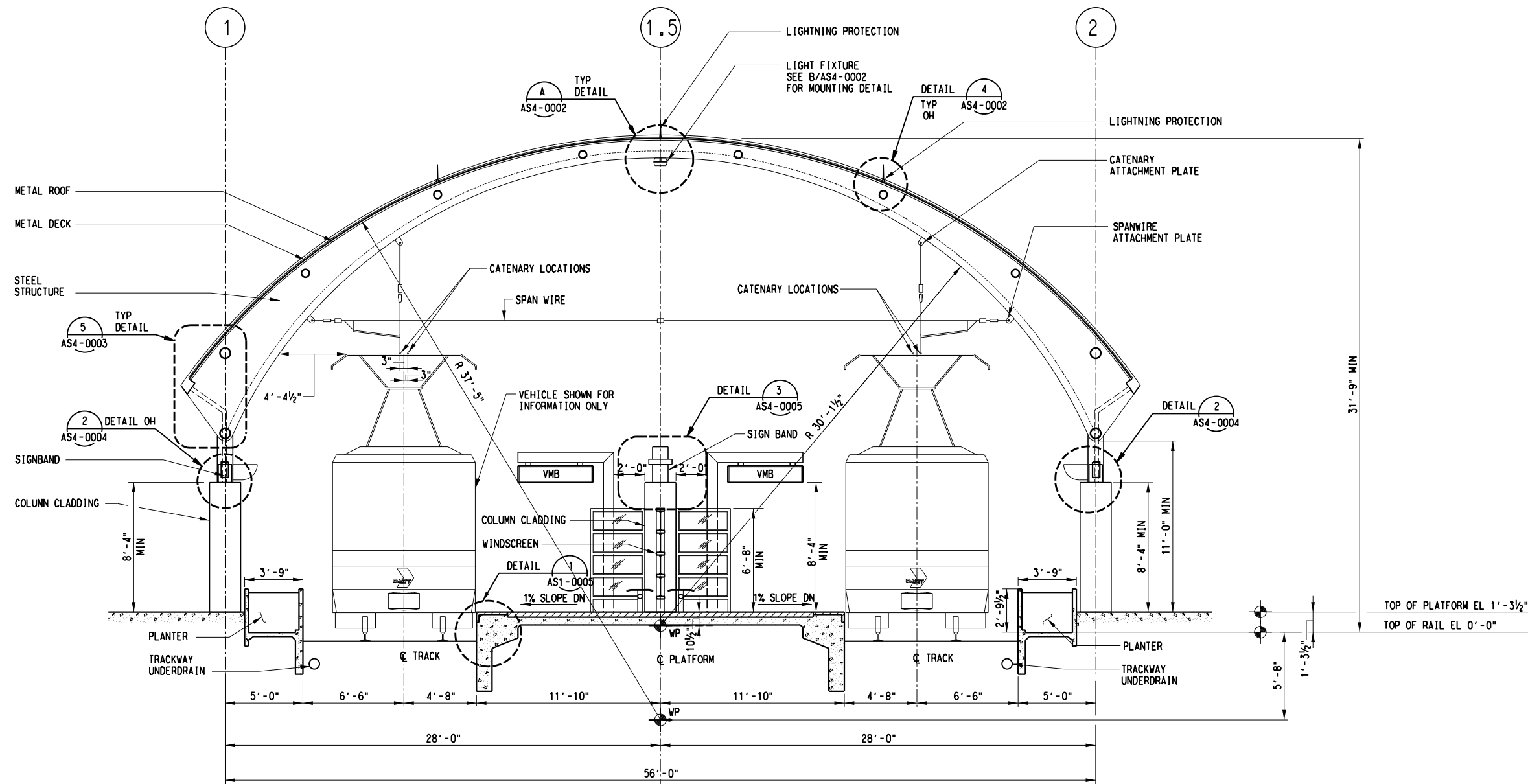
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\$\$MODEL\$\$\$\$

NOTE:

- 1. SEE STRUCTURAL DRAWINGS FOR HEIGHT OF CANOPY. SUCH HEIGHT IS RELATIVE TO TOP OF PLATFORM, AND WILL VARY SLIGHTLY DEPENDING ON SITE SPECIFIC CONDITIONS.
- 2. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING IS MINIMUM HEIGHT BASED ON A LEVEL PLATFORM ELEVATION. IN ORDER TO MAINTAIN A LEVEL SIGN BAND AND TOP OF CANOPY, THE 8'-4" COLUMN DIMENSION WILL INCREASE ONLY AS PLATFORM GRADING VARIES. THE COLUMN BASE HEIGHT SHALL INCREASE RELATIVE TO INCREASES IN COLUMN HEIGHT PER PLATFORM SLOPE.
- 3. FOR PAINT AND FINISH SCHEDULE SEE STATION CONTRACT DRAWINGS.
- 4. STEP WINDSCREEN WITH PLATFORM SLOPE BUT MAINTAIN SCREEN FRAME PLUMB AND LEVEL.
- 5. SEE STRUCTURAL PLANS FOR PLATFORM GRADE.



OVERALL SECTION A
SCALE: 1/4" = 1'-0" AC2-0031

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CONTRACT SHEET No. 43 OF 44


REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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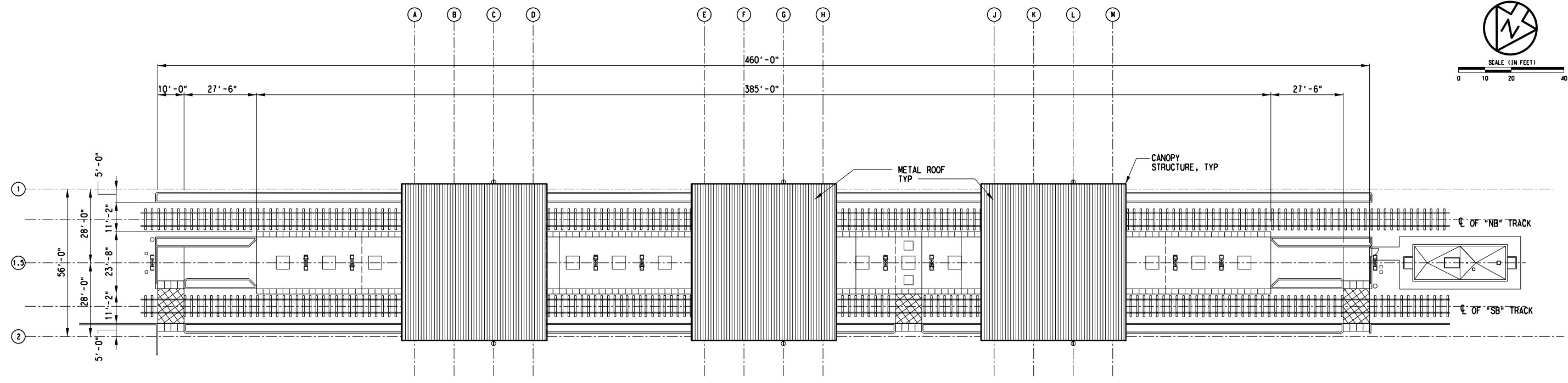
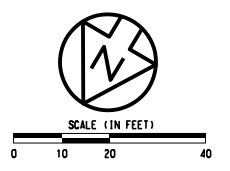
SCALE	AS NOTED
DRAWN	G. BRINGAS
DESIGNED	V. SADR
CHECKED	J. LIBOURY
IN CHARGE	D. JAMES
DATE	03 AUG 12

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
OVERALL CROSS SECTION

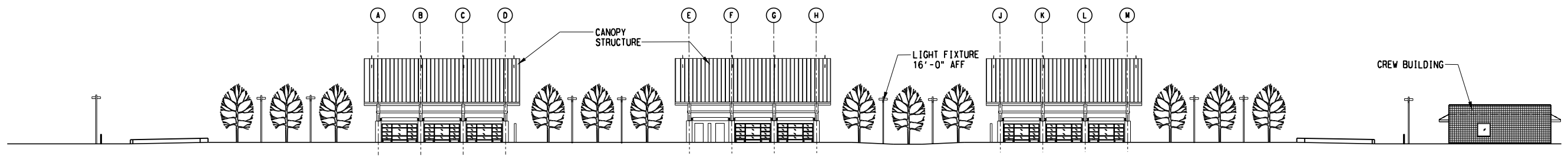


CONTRACT DWG No. AC5-0030 REV -

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OVERALL ROOF PLAN A
SCALE: 1" = 20' - 0"



OVERALL ELEVATION 1
SCALE: 1" = 20' - 0"

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CONTRACT SHEET No. 44 OF 44

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DESIGNED	V. SADR
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IN CHARGE	D. JAMES
DATE	03 AUG 12

CAES

CONTRACT DWG No. AC2-0031 REV -

**LIGHT RAIL TRANSIT SYSTEM
LINE SECTION SOC-3
UNT DALLAS STATION
OVERALL ROOF PLAN AND
OVERALL ELEVATION**

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