IRVING/DFW CORRIDOR
BELT LINE ROAD TO TERMINAL A STATION
LINE SECTION I-3 PHASE I

FINAL ENVIRONMENTAL ASSESSMENT APPENDIX J
PRELIMINARY ENGINEERING - 10% DESIGN

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By R. THOMPSON P.E.# 95919
Date 15 JUL 10

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SHEET 1 OF 62 DWG No. GC1-0001

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DWG No. GC1-0002

DRAWINGS

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2	INDEX OF DRAWINGS
3	TITLE SHEET
4-5	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
6-7	HORIZONTAL ALIGNMENT SCHEMATIC
8-25	GUIDEWAY TYPICAL SECTIONS
26-62	GUIDEWAY PLAN AND PROFILE

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IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TITLE SHEET

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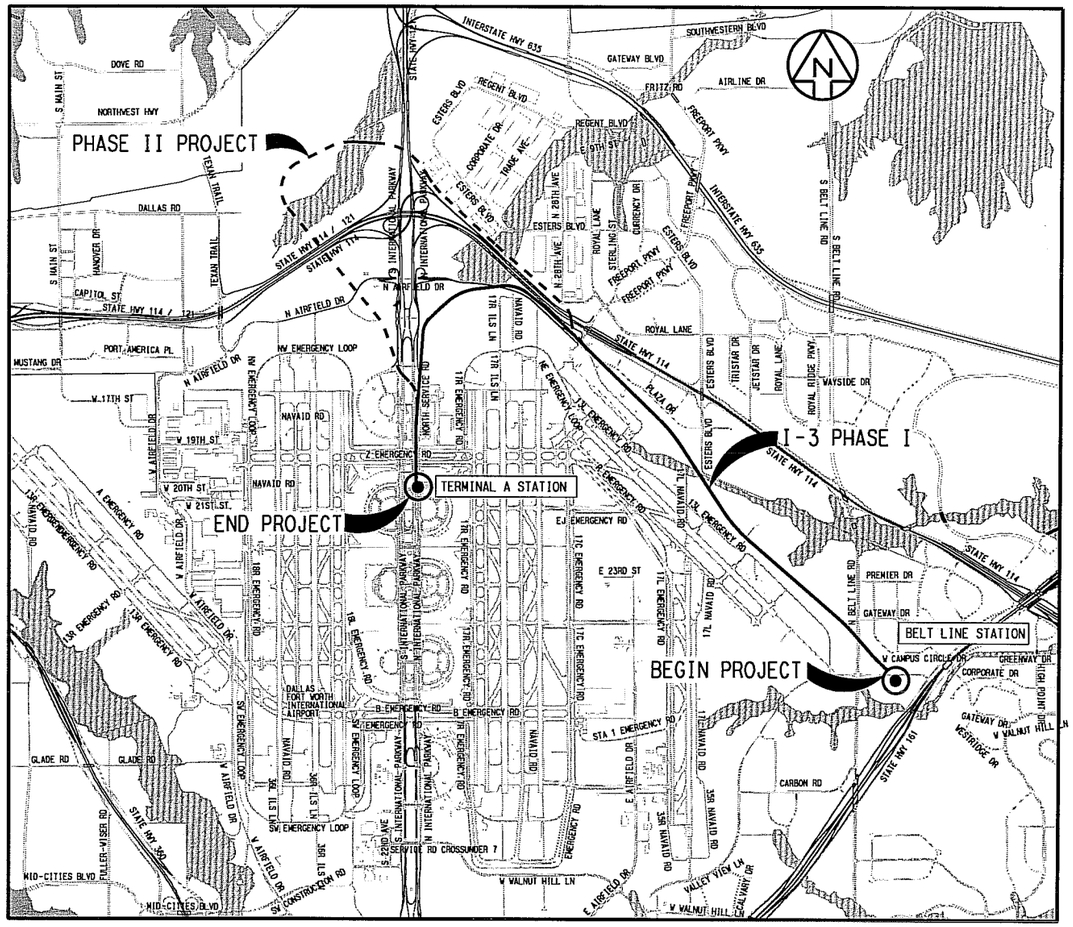

VICINITY MAP

NO SCALE

IRVING/DFW CORRIDOR

BELT LINE ROAD TO TERMINAL A STATION

LINE SECTION I-3 PHASE I

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

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DWG No. GC1-0003

ABBREVIATIONS

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
Ea	ACTUAL SUPERELEVATION IN INCHES
EBFR	EASTBOUND FRONTAGE ROAD
EBML	EASTBOUND MAINLANE
EL	ELEVATION
ENCSMT	ENCASEMENT
ESMT	EASEMENT
Es	EXTERNAL DISTANCE OF SPIRAL CURVE
Eu	SUPERELEVATION UNBALANCED IN INCHES
EX OR EXIST.	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FIG.	FIGURE
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
L_S	TOTAL LENGTH OF SPIRAL
LSG	LONE STAR GAS
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
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
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
PE	POLYETHLENE
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
R!	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
T!	TOTAL LENGTH OF TANGENT
T(UG)	UNDERGROUND TELEPHONE
TBM	TEMPORARY BENCH MARK
TBR	TO BE REMOVED
T_C	TIME OF CONCENTRATION
TEMP	TEMPORARY
TG	TELEGRAPH
TGMH	TELEGRAPH MANHOLE
TLWY	TOLLWAY
TMH	TELEPHONE MANHOLE
TO.	TURNOUT

GENERAL NOTES:

1. THE CONSTRUCTION OF THE LIGHT RAIL GUIDEWAY SHALL CONFORM WITH DART STANDARD DRAWINGS AND STANDARD SPECIFICATIONS.
2. WORK INVOLVING DRAINAGE FACILITIES, STREET RECONSTRUCTION OR IMPROVEMENTS WITHIN THE DALLAS/FORT WORTH INTERNATIONAL AIRPORT PUBLIC RIGHTS-OF-WAY SHALL CONFORM WITH THE STANDARD SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS OF THE DALLAS/FORT WORTH INTERNATIONAL AIRPORT. THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE DALLAS/FORT WORTH INTERNATIONAL AIRPORT SPECIAL PROVISIONS TO THE NCTCOG SPECIFICATIONS.
3. WORK INVOLVING WATER AND WASTEWATER (SANITARY SEWER) FACILITIES WITHIN THE CITY OF DALLAS PUBLIC RIGHTS-OF-WAY AND EASEMENTS SHALL CONFORM WITH THE CITY OF DALLAS WATER UTILITIES (DWU) DRAWINGS, DETAILS AND STANDARDS APPURTENANCES FOR WATER AND WASTEWATER PIPE CONSTRUCTION METHODS, NCTCOG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE DWU ADDENDUM TO THE NCTCOG SPECIFICATIONS.
4. WORK INVOLVING OTHER UTILITIES (ELECTRIC POWER, GAS, TELEPHONE, CABLE TELEVISION & FIBER/COMMUNICATIONS), SHALL CONFORM WITH THE REQUIREMENTS OF THE OWNING/OPERATING UTILITY COMPANY.
5. THE AERIAL MAPPING IN PLAN VIEWS AND EXISTING GROUND LINES ON PROFILES AND ON CROSS SECTIONS WERE OBTAINED FROM MAPPING PROVIDED BY DALLAS/FORT WORTH INTERNATIONAL AIRPORT IN 2007.
6. THE RIGHT TRACK IS DETERMINED BY LOOKING IN THE DIRECTION OF INCREASING TRACK STATIONING. THIS TRACK IS REFERENCED AS THE (NB) NORTHBOUND TRACK AND IS ALSO THE STATIONING CONTROL TRACK.
7. THE BASIS OF DRAINAGE DESIGN FOR THE DALLAS/FORT WORTH INTERNATIONAL AIRPORT WAS THE DFW DESIGN CRITERIA MANUAL USING A 100-YEAR STORM RECURRENCE INTERVAL.
8. ALL UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
9. FINAL DESIGNER SHALL CONSIDER FIRE APPARATUS REQUIREMENTS IN THE DESIGN OF ACCESS ROADS. THE ACCESS ROADS SHALL COMPLY WITH THE INTERNATIONAL FIRE CODE REQUIREMENTS FOR ACCESS ROADS PER SECTION 503.2.3 SURFACE.
10. DRAINAGE DITCHES HAVE BEEN SHOWN ON THE CROSS SECTIONS AS TYPICAL ONLY AND WILL NEED TO BE DESIGNED FOR HYDRAULIC CAPACITY.
11. THE PROPOSED ROW/EASEMENTS SHOW THE APPROXIMATE REQUIREMENTS NEEDED TO CONSTRUCT THE LRT SYSTEM. FINAL SECTION DESIGNER SHALL VERIFY ROW/EASEMENT NEEDS DURING FINAL DESIGN.
12. FINAL SECTION DESIGNER, OR DESIGN/BUILDER SHALL DESIGN THE GUIDEWAY IN ACCORDANCE WITH NFPA-130 STANDARD FOR FIXED GUIDEWAY TRANSIT AND PASSENGER RAIL SYSTEMS AND THE APPLICABLE FIRE AND BUILDING CODES OF THE LOCAL JURISDICTION.

ABBREVIATIONS (CONT'D)

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
UD	UNDERDRAIN
UGE	UNDERGROUND ELECTRIC
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

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CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GENERAL NOTES
AND ABBREVIATIONS

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DWG No. GC1-0004

SYMBOLS

- PROFILE GRADE LINE / ELEVATION CONTROL POINT
- DIRECTION OF FLOW
- ℄ OR ℄ CENTERLINE OR BASELINE
- FUTURE OR NOT IN CONTRACT
- ℄ CENTERLINE
- ℄ BASELINE
- ℙ PROPERTY LINE
- DIMENSION LINE CONTINUES
- MATCH LINE
- 510 CONTOUR LINE
- TRACK (TRANSIT) CENTERLINE
- X X X EXISTING FENCE LINE
- X X X PROPOSED FENCE LINE
- STRUCTURE OUTLINE
- RAILROAD TRACKS
- CO CLEANOUT
- MH MANHOLE
- SIDEWALK AND MISC. LINES
- DROP INLET, CATCH BASIN OR DRAIN - TO SCALE
- CULVERT HEADWALLS - TO SCALE
- x543.5 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
- T TREE
- S 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
- Θ_S CENTRAL ANGLE OF SPIRAL OR SPIRAL ANGLE
- Θ_{gAC} CENTRAL ANGLE OF COMPOUND SPIRAL OR COMPOUND ANGLE (CS1 TO CS2)
- Θ_{sAT} 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
- LIGHT POLE
- FS FIRE SERVICE STAND PIPE
- TRAFFIC SIGN
- POLE GUY AND ANCHOR
- TRANSMISSION LINE TOWER
- TRAFFIC CONTROL GATE
- TEST BORING LOCATION
- (O/H) OVERHEAD LINES
- (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
- ESL ELECTRIC LINE, STREET LIGHTING
- T TELEPHONE LINE
- TG TELEGRAPH LINE
- TV CABLEVISION LINE
- PROPOSED CASING
- PROPOSED STREET CLOSING
- PROPOSED STREET CONSTRUCTION
- 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
- PI/PVI/PITO
- NON-INSULATED JOINT
- F SWITCH NUMBERING "F" INDICATES FUTURE
- I3-A CURVE NUMBER
- BLUE FLAG
- BUMPING POST
- EQUILATERAL TURNOUT
- GABION BLANKET

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CONTRACT SHEET No. 5 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

SYMBOLS

CONTRACT | DWG No. GC1-0004 | REV

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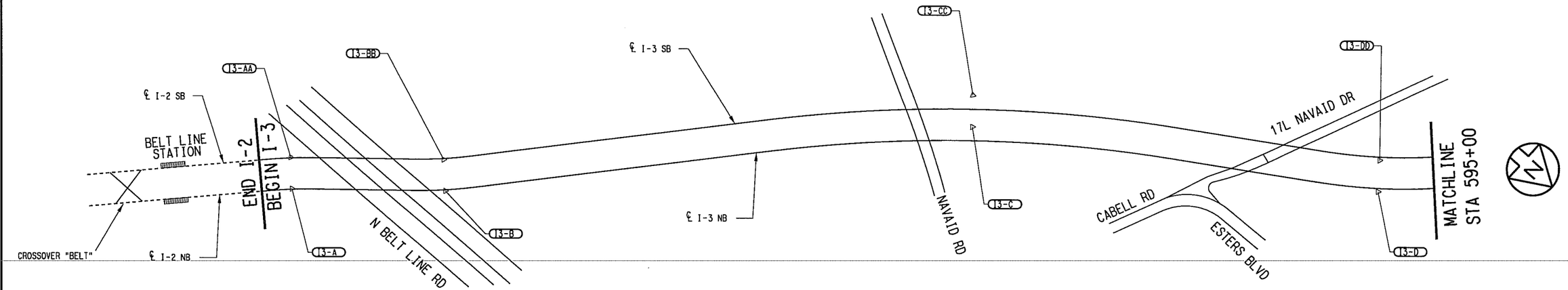
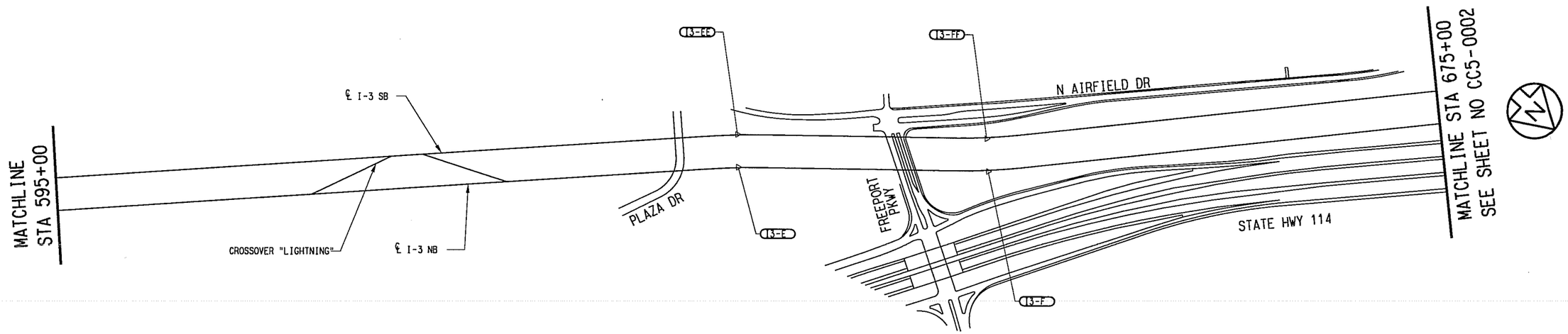
DWG No. CC5-0001

LINE SECTION I-3
HORIZONTAL ALIGNMENT SCHEMATIC

NO SCALE





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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I
HORIZONTAL ALIGNMENT SCHEMATIC
SHEET 1 OF 2

CONTRACT	DWG No.	REV
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LINE SECTION I-3
HORIZONTAL ALIGNMENT SCHEMATIC

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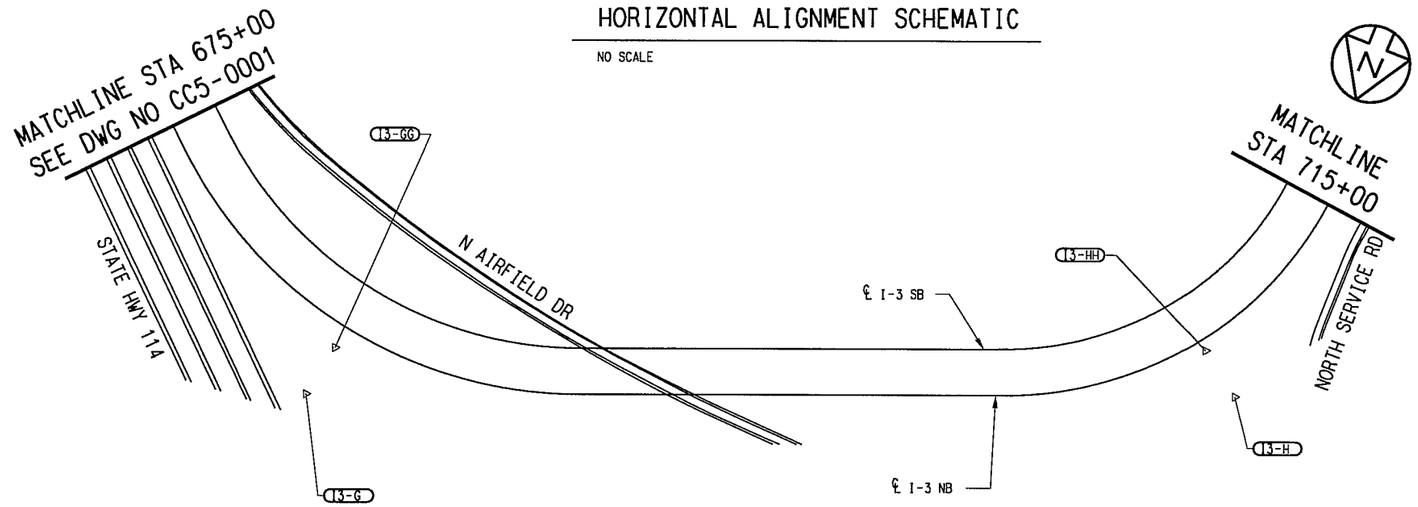

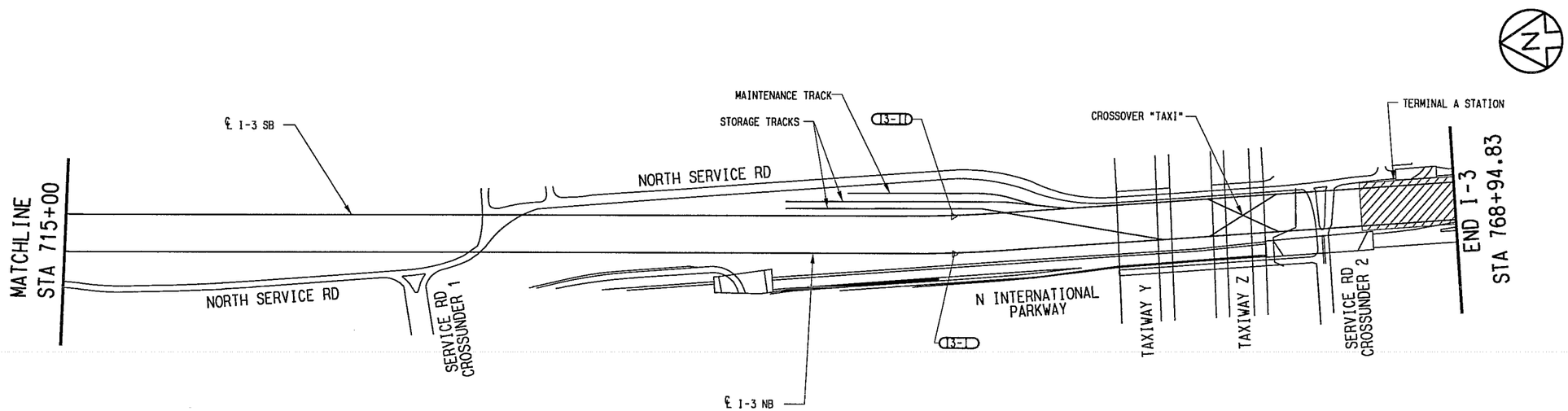

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LINE SECTION I-3 PHASE I
HORIZONTAL ALIGNMENT
SCHEMATIC
SHEET 2 OF 2

CONTRACT | DWG No. CC5-0002 | REV

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dan_king_VB
$$MODELSS
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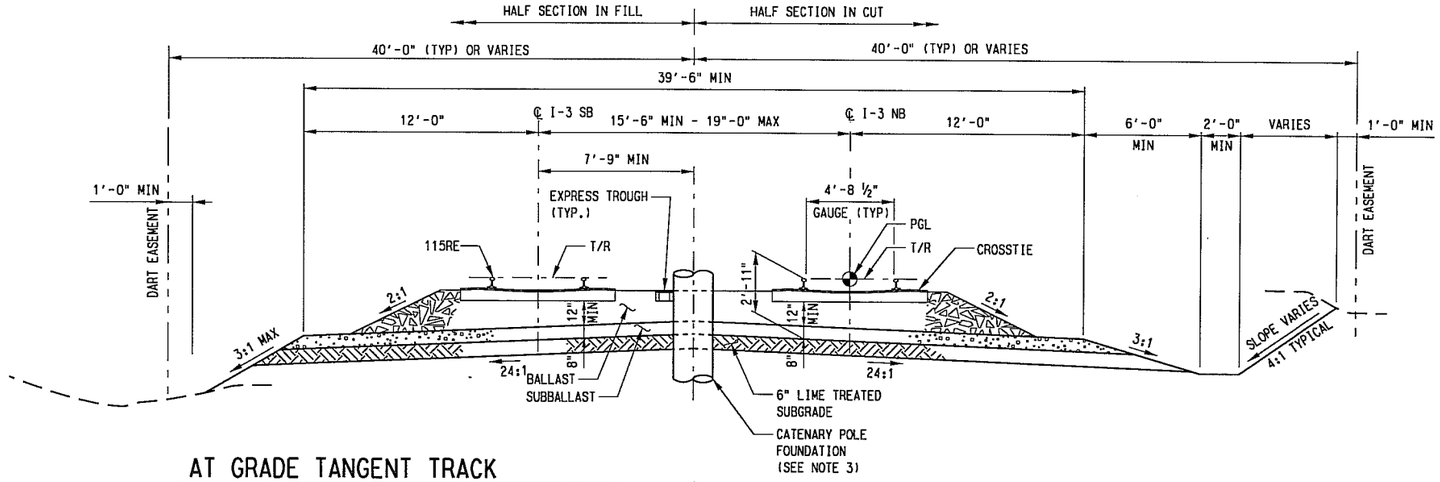


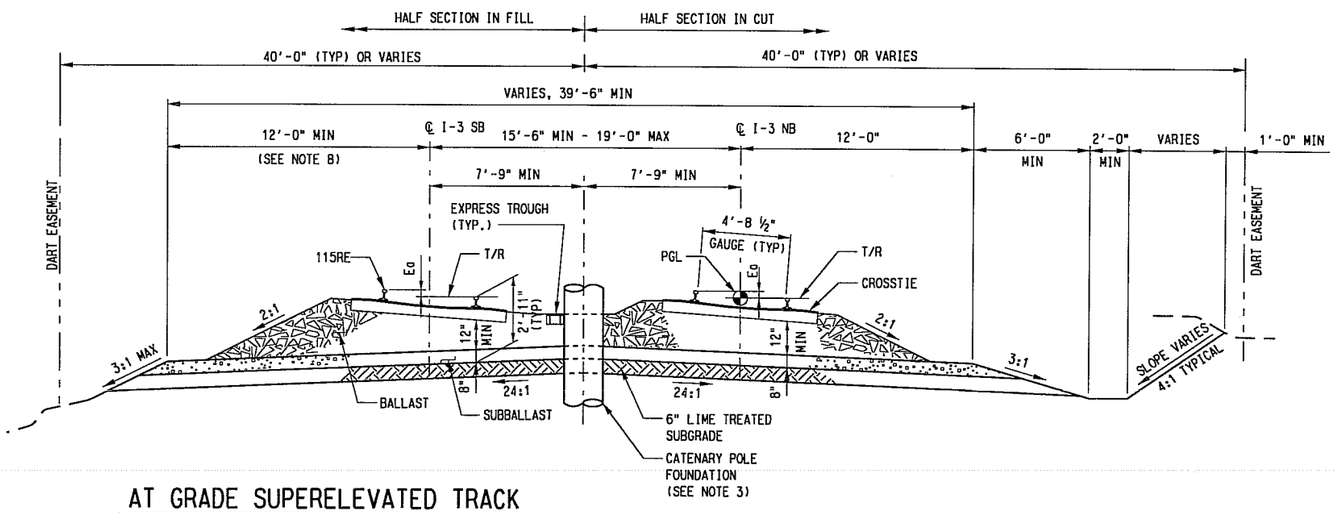
AT GRADE TANGENT TRACK

NOT TO SCALE

STA 495+00.00 TO STA 495+01.16
STA 516+06.81 TO STA 518+50.00
STA 520+50.00 TO STA 534+00.00
STA 544+50.00 TO STA 557+90.00
STA 558+35.00 TO STA 580+50.00
STA 593+50.00 TO STA 595+30.09
STA 607+96.10 TO STA 621+00.00

STA 621+00.00 TO STA 624+25.00 (NB ONLY)
STA 624+25.00 TO STA 628+00.00
STA 628+00.00 TO STA 634+92.60 (NB ONLY)
STA 666+50.00 TO STA 670+00.00 (SB ONLY)
STA 670+00.00 TO STA 670+36.80
STA 714+13.62 TO STA 715+78.00

STA 716+22.00 TO STA 717+50.00
STA 750+74.00 TO STA 752+50.00 (SB ONLY)



AT GRADE SUPERELEVATED TRACK

NOT TO SCALE

STA 495+01.16 TO STA 497+50.00
STA 514+50.00 TO STA 516+06.81
STA 595+30.09 TO STA 607+96.10
STA 670+36.80 TO STA 675+75.00
STA 706+50.00 TO STA 709+08.02
STA 709+08.02 TO STA 710+57.15 (SB ONLY)
STA 710+57.15 TO STA 714+13.62
STA 749+74.00 TO STA 750+74.00 (SB ONLY)

GENERAL NOTES:

1. ALL SECTIONS ARE LOOKING UPSTATION. WITH ALL STATIONING BASED ON THE CENTERLINE OF THE NORTHBOUND TRACK, UNLESS OTHERWISE NOTED.
2. SEE TRACKWORK STANDARDS FOR DETAILS OF TRACK ELEMENTS, DETAILS ARE PROVIDED FOR FINAL SECTION DESIGNER'S/CONTRACTOR'S INFORMATION ONLY.
3. 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.
4. SEE UTILITY MODIFICATION PLANS FOR DETAILS AND LIMITS OF DITCHES, DRAINAGE STRUCTURES AND UNDERDRAINS.
5. IN CURVES AND SPIRALS, THE PGL IS THE TOP OF THE LOW RAIL ON THE INSIDE OF THE CURVE OF THE NORTHBOUND TRACK.
6. THE CONTRACTOR IS REQUIRED TO WORK WITHIN ONCOR AND OSHA REQUIREMENTS FOR CLEARANCES WHILE WORKING NEAR OR UNDER TRANSMISSION LINES.
7. SIDE SLOPES SHALL BE 3:1 FOR LRT TRACK EMBANKMENT WITHIN DART'S PROPOSED PERMENANT EASEMENT, UNLESS INDICATED OTHERWISE. A 4:1 OR FLATTER SIDE SLOPE SHALL BE USED TO TRANSITION PROPOSED DITCHES TO EXISTING GROUND WITHIN DFW AIRPORT PROPERTY WHEN THE TRANSITION EXCEEDS THE LIMITS OF THE PROPOSED PERMANENT EASEMENT. TEMPORARY EASEMENTS SHALL BE REQUIRED AT THESE LOCATIONS.
8. FOR SUPERELEVATED CURVES WHERE Eo 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.
9. PROVIDE 6" LIME TREATED SUBGRADE UNDER THE 8" SUBBALLAST WHERE PLASTICITY INDEX OF SUBGRADE IS 15 OR GREATER, SEE SPECIFICATIONS.
10. ALL DIMENSIONS TO RETAINING WALLS ARE TO THE INSIDE FACE OF WALL, NOT THE COPING FOR MSE WALLS.

GENERAL NOTES (CONTINUED):

11. SEE GUIDEWAY PLAN AND PROFILE DRAWINGS FOR DETAILS AND LIMITS OF HORIZONTAL AND VERTICAL TRACK GEOMETRY, RETAINING WALL LOCATIONS, BALLAST WALL LOCATIONS, LIMITS OF SLOPE PROTECTION, AND FENCE LOCATIONS.
12. 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.
13. THE SUBBALLAST SHOULDER SHALL BE A MINIMUM OF 2 FEET.

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PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 8 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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

DART PROJECT

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I
GUIDEWAY
TYPICAL SECTIONS
SHEET 1 OF 5

CONTRACT | DWG No. CC1-0001 | REV

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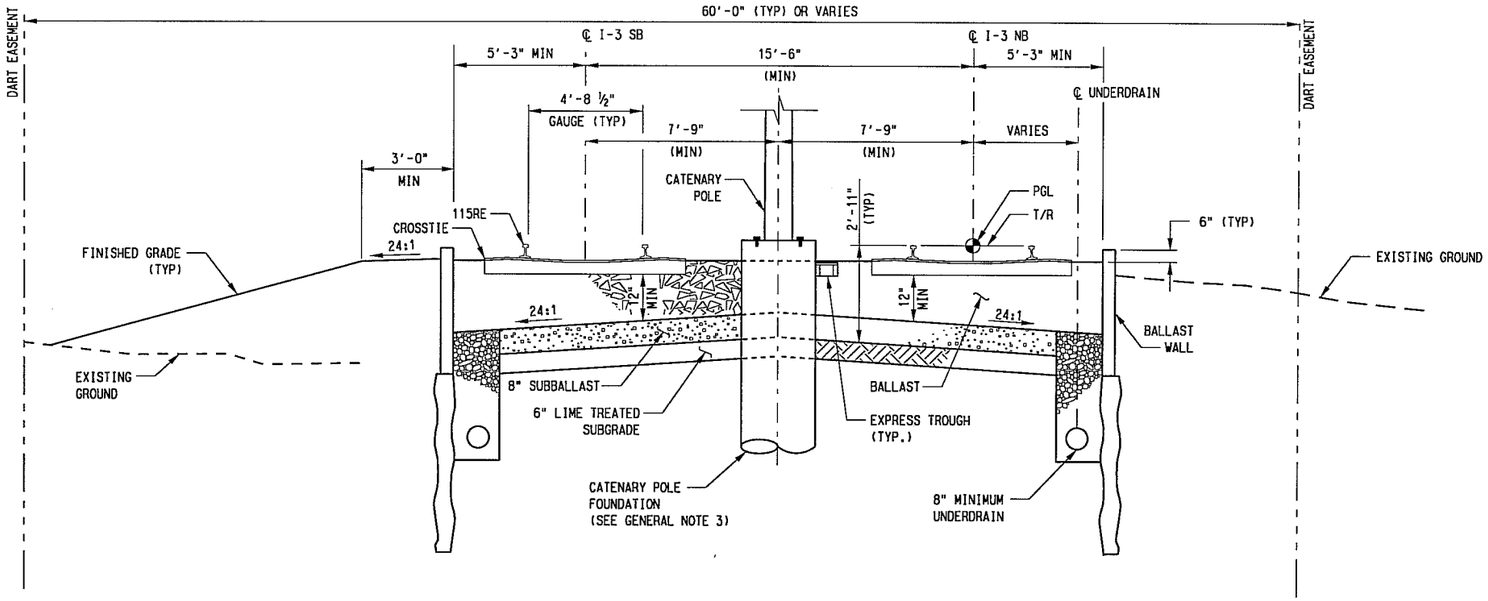
7/14/2010



AT GRADE WITH BALLAST WALLS

NOT TO SCALE

STA 621+00.00 TO STA 624+25.00 (SB ONLY)
STA 628+00.00 TO STA 634+92.60 (SB ONLY)
STA 635+53.09 TO STA 636+51.09
STA 636+51.09 TO STA 637+00.00 (SUPERELEVATED)
STA 657+90.00 TO STA 666+50.00 (SB ONLY)
STA 709+08.02 TO STA 710+57.15 (NB ONLY)
STA 745+00.00 TO STA 745+71.22 (NB ONLY)
STA 745+71.22 TO STA 749+00.00 (NB ONLY & SUPERELEVATED)
STA 754+40.10 TO STA 757+00.00 (NB ONLY)
STA 757+00.00 TO STA 762+45.02
STA 763+22.45 TO STA 764+09.79

NOTES:

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

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CONTRACT SHEET No. 9 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY
TYPICAL SECTIONS
SHEET 2 OF 5

CONTRACT	DWG No.	REV
	CC1-0002	

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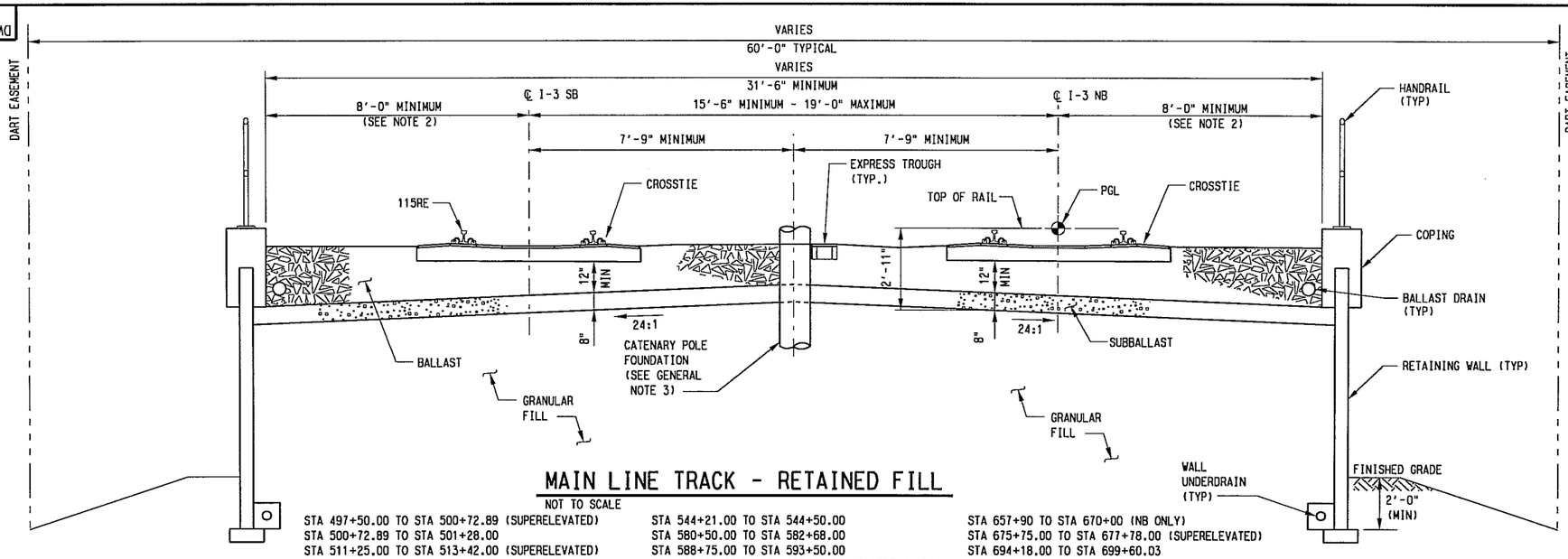
7/14/2010

DWG No. CC1-0003



MAIN LINE TRACK - RETAINED FILL

NOT TO SCALE

STA 497+50.00 TO STA 500+72.89 (SUPERELEVATED)
STA 500+72.89 TO STA 501+28.00
STA 511+25.00 TO STA 513+42.00 (SUPERELEVATED)
STA 514+22.00 TO STA 514+50.00 (SUPERELEVATED)
STA 518+50.00 TO STA 519+38.00
STA 520+28.00 TO STA 520+50.00
STA 534+00.00 TO STA 537+50.00
STA 539+70.00 TO STA 543+61.00

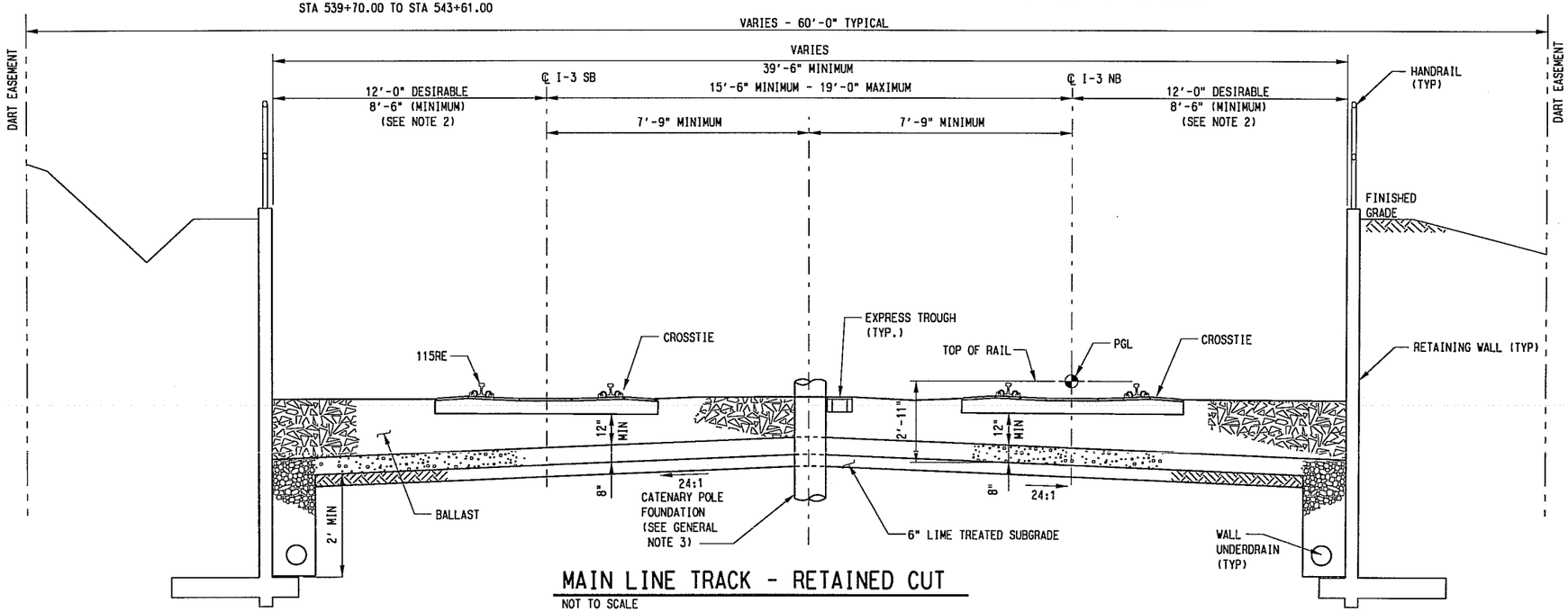
STA 544+21.00 TO STA 544+50.00
STA 580+50.00 TO STA 582+68.00
STA 588+75.00 TO STA 593+50.00
STA 637+00.00 TO STA 639+38.12 (SUPERELEVATED)
STA 639+38.12 TO STA 640+40.00
STA 653+62.00 TO STA 657+90.00

STA 657+90 TO STA 670+00 (NB ONLY)
STA 675+75.00 TO STA 677+78.00 (SUPERELEVATED)
STA 694+18.00 TO STA 699+60.03
STA 699+60.03 TO STA 706+50.00 (SUPERELEVATED)
STA 717+50.00 TO STA 721+81.00
STA 744+41.00 TO STA 745+00.00
STA 745+00.00 TO STA 745+71.22 (SB ONLY)

STA 745+71.22 TO STA 749+00.00 (SB ONLY SUPERELEVATED)
STA 749+00.00 TO STA 749+76.00 (SUPERELEVATED)
STA 749+76.00 TO STA 750+74.00 (NB ONLY SUPERELEVATED)

NOTES:

1. SEE DWG No. CC1-0001 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 750+74.00 TO STA 752+50.00 (NB ONLY)
STA 752+50.00 TO STA 754+40.10
STA 754+40.10 TO STA 757+00.00 (SB ONLY)

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PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 10 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I
GUIDEWAY
TYPICAL SECTIONS
SHEET 3 OF 5

CONTRACT	DWG No.	REV
	CC1-0003	

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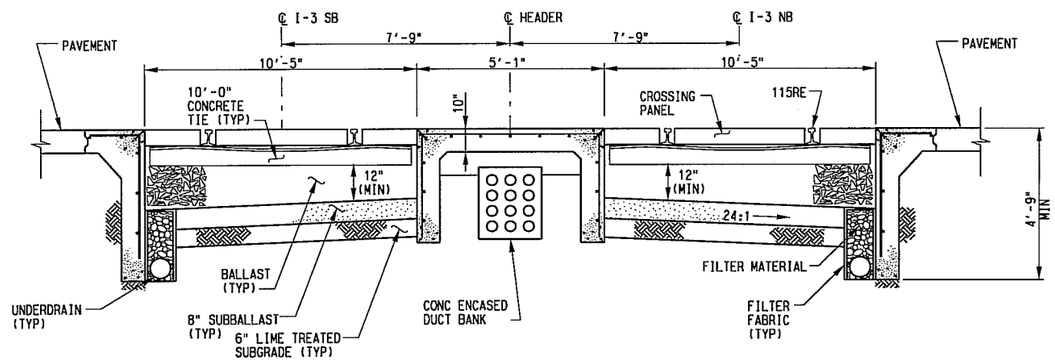
$$MODEL$$
7/14/2010

NOTES:

1. SEE DWG. No. CC1-0001 FOR GENERAL NOTES.
2. HEADER DETAIL SHOWN IS FOR A TYPICAL CONCRETE PAVEMENT INTERFACE. REFER TO DART STANDARD DRAWINGS FOR OTHER TYPES OF INTERFACE.



HIGHWAY\STREET GRADE CROSSING

SCALE: NOT TO SCALE

STA 557+90.00 TO STA 558+35.00 (NAVAID ROAD)
STA 634+92.60 TO STA 635+53.09 (PLAZA DRIVE)
STA 715+78.00 TO STA 716+22.00 (CHESAPEAKE ACCESS ROAD)
STA 762+45.02 TO STA 763+22.45 (CROSSUNDER #2)

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CONTRACT SHEET No. 11 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I
GUIDEWAY
TYPICAL SECTIONS
SHEET 4 OF 5

CONTRACT	DWG No.	REV
	CC1-0004	

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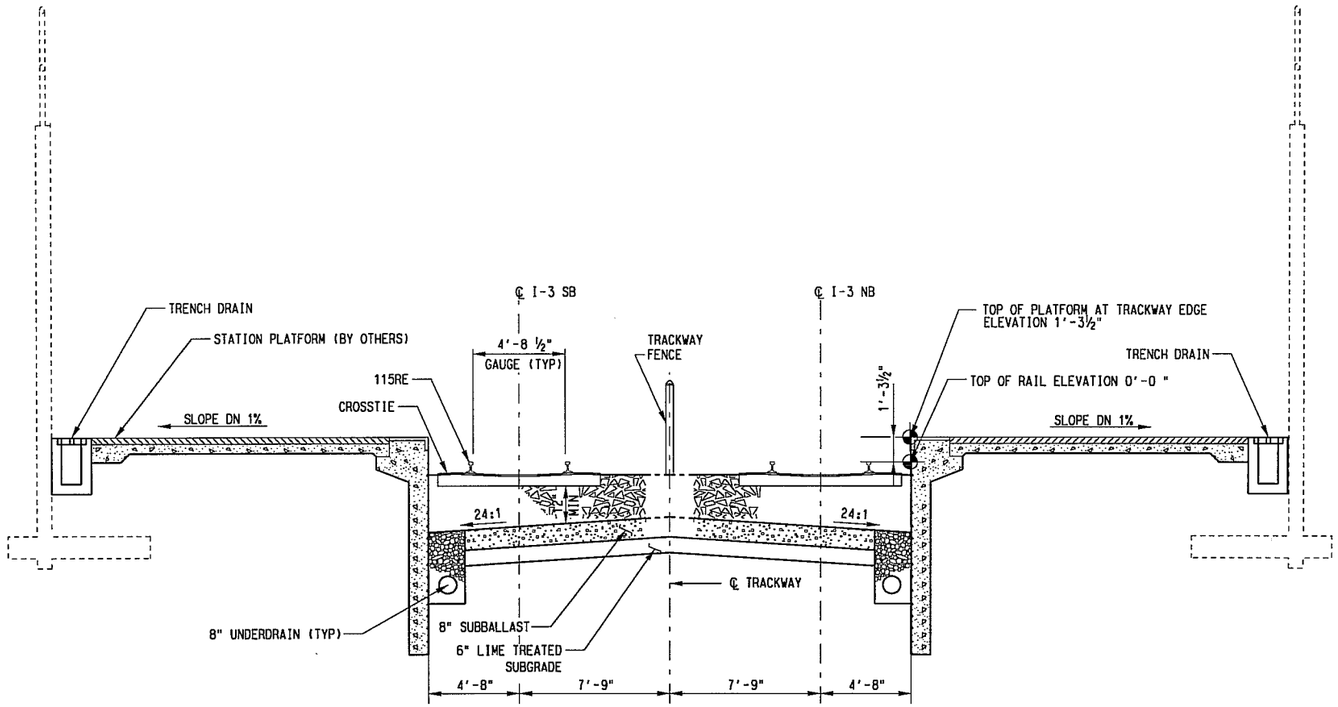
DWG No. CC1-0005



NOTES:

1. THE STATION PLATFORM WILL BE CONSTRUCTED BY DFW AIRPORT. LOCATION AND PLATFORM LAYOUT WILL NEED TO BE COORDINATED.

MAIN LINE TRACK - SIDE PLATFORM STATION

NOT TO SCALE

STA 764+09.79 TO STA 768+69.79

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CONTRACT SHEET No. 12 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I
GUIDEWAY
TYPICAL SECTIONS
SHEET 5 OF 5

CONTRACT	DWG No.	REV
	CC1-0005	

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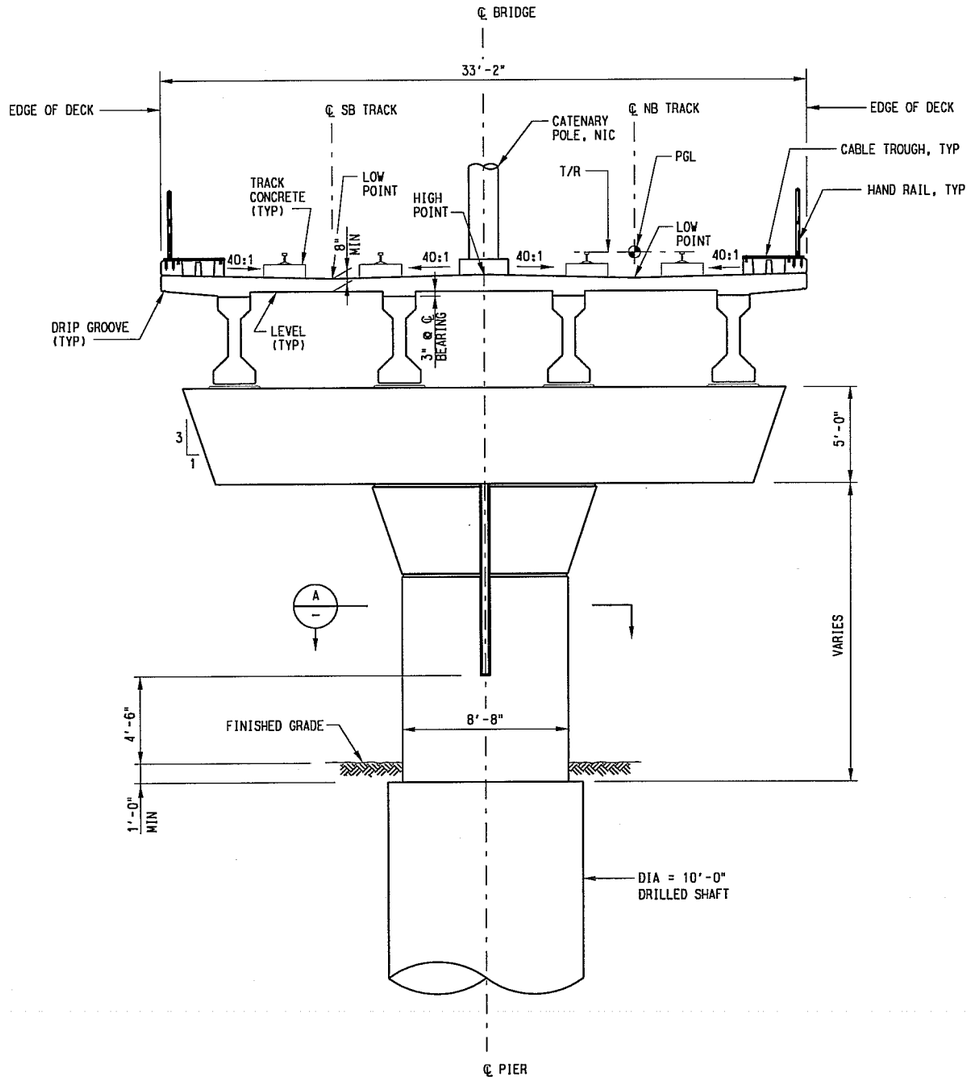
$$MODELS$
7/14/2010

DWG No. SC8-0015



TYPICAL SECTION (1)
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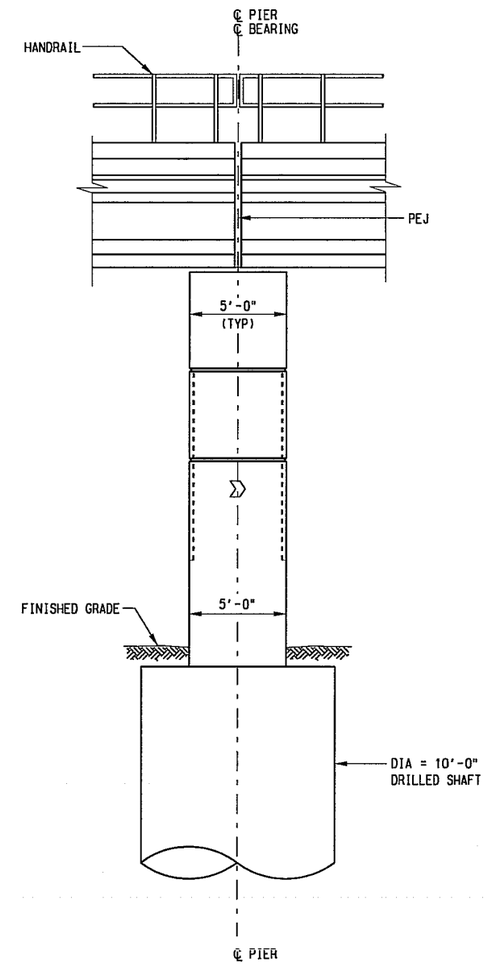
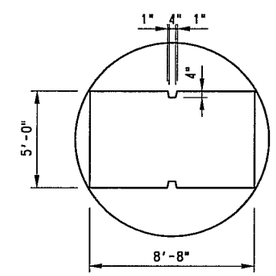


TYPICAL PIER ELEVATION (2)
SCALE:¼"=1'-0"

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.



COLUMN SECTION (A)
SCALE:¼"=1'-0"

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CONTRACT SHEET No. 13 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	E. OU
DESIGNED	E. OU
CHECKED	K. ZHOU
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE B1
SHEET 1 OF 11

CONTRACT | DWG No. SC8-0015 | REV

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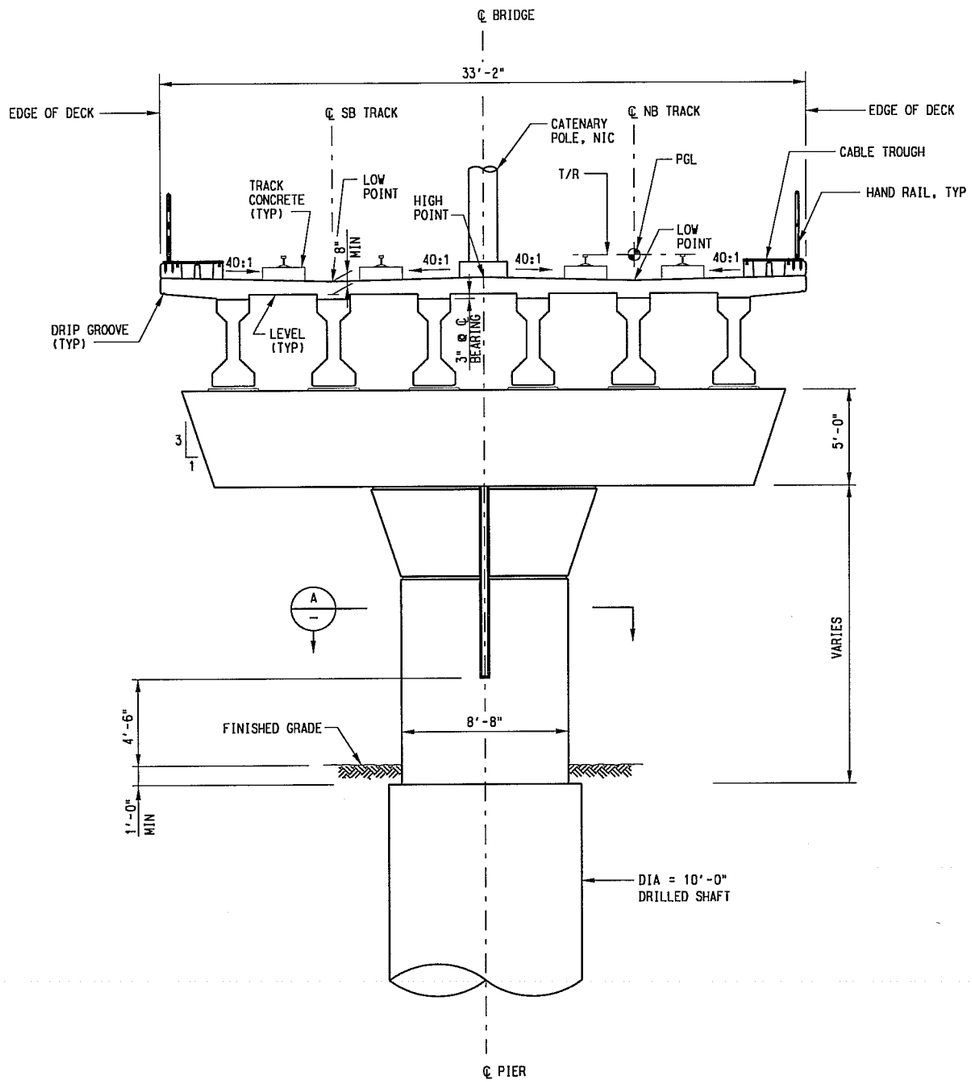
$$MODEL$$
7/14/2010

DWG No. SC8-0016

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0015 FOR COLUMN SECTION A.



TYPICAL SECTION (1)
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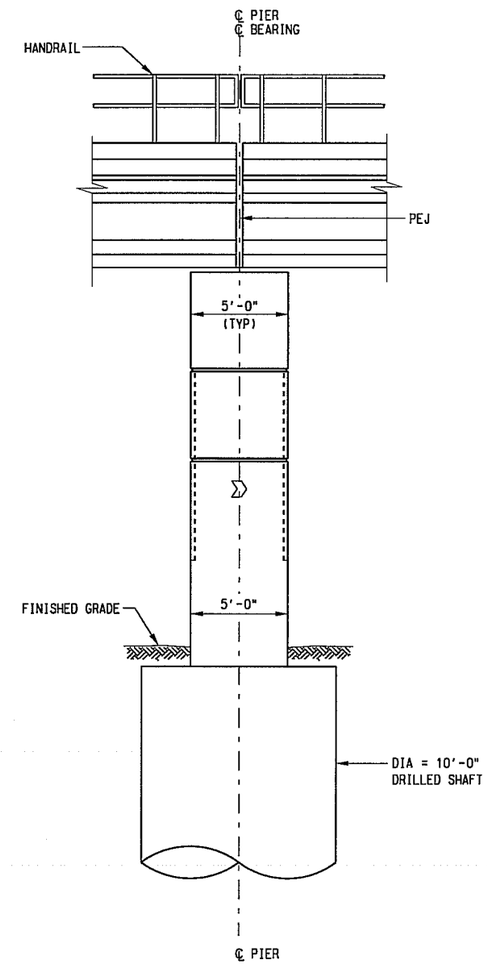

TYPICAL PIER ELEVATION (2)
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 14 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	E. OU
CHECKED	K. ZHOU
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE B2
SHEET 2 OF 11

CONTRACT | DWG No. SC8-0016 | REV

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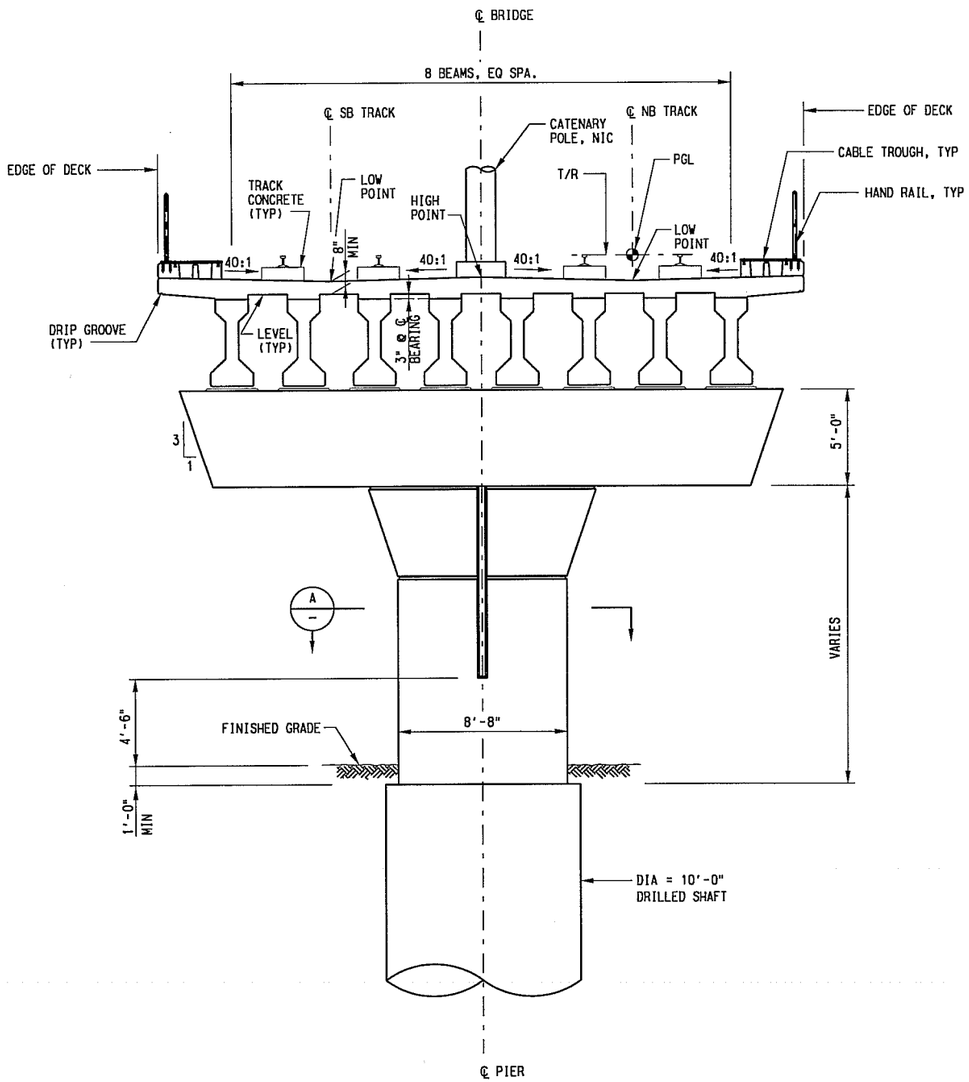
$$MODEL$$
7/14/2010

DWG No. SC8-0017

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0015 FOR COLUMN SECTION A.



TYPICAL SECTION 1
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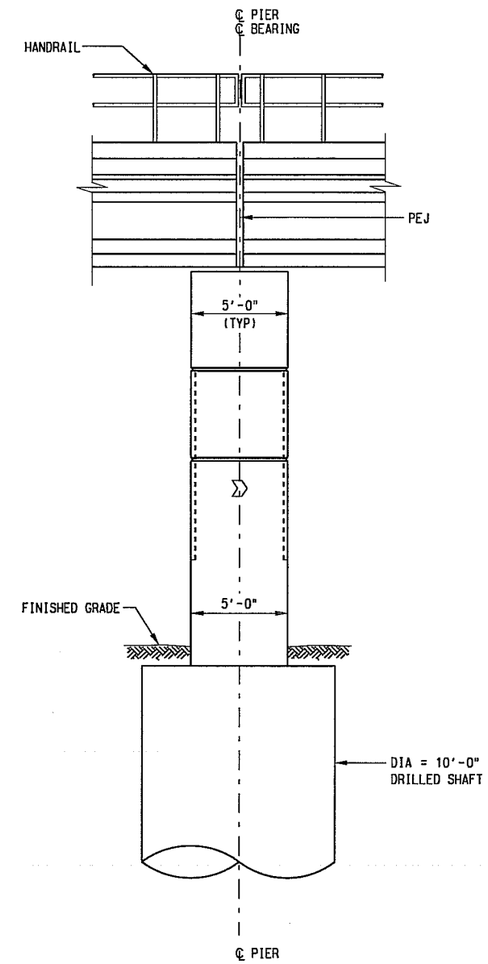

TYPICAL PIER ELEVATION 2
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 15 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	E. OU
CHECKED	K. ZHOU
IN CHARGE	J. SKILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE B3
SHEET 3 OF 11

CONTRACT | DWG No. SC8-0017 | REV

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7/14/2010
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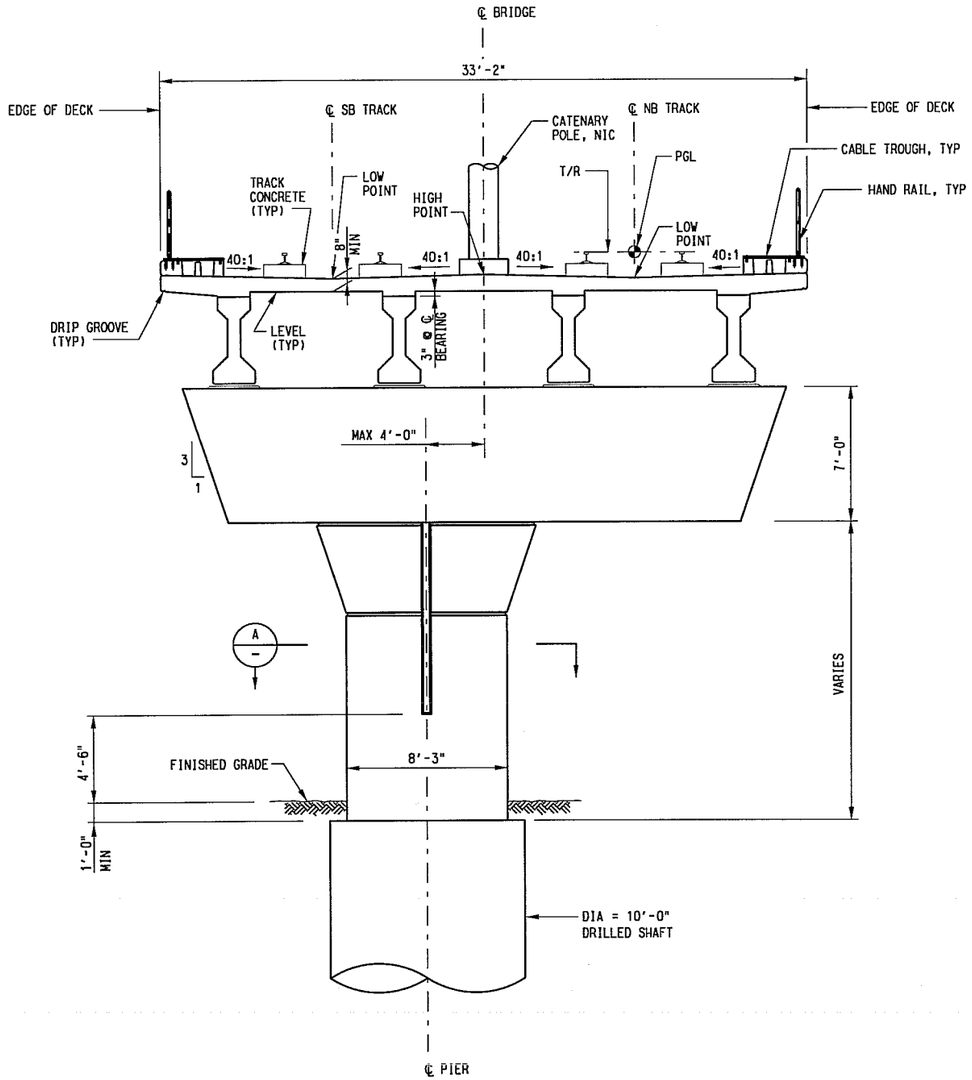
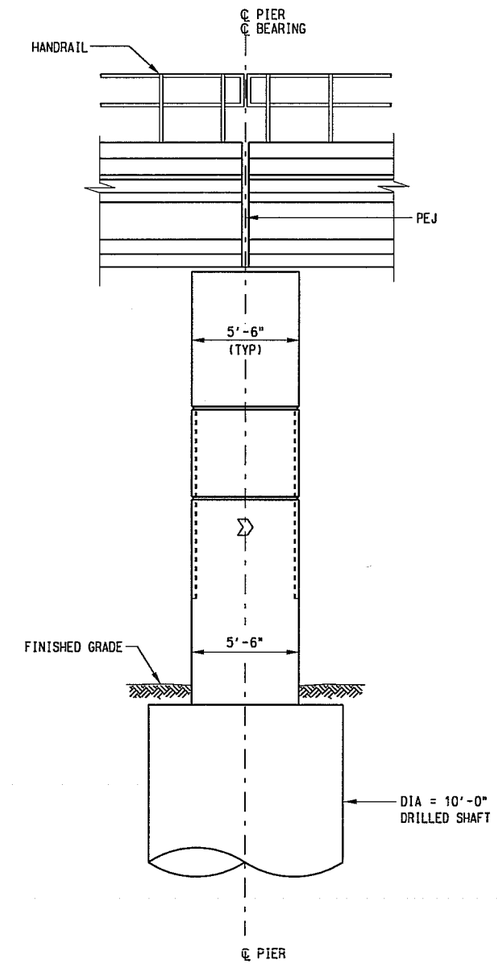
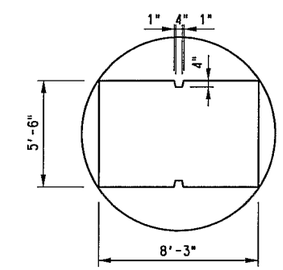


TYPICAL SECTION (1)
SCALE: ¼"=1'-0"



TYPICAL PIER ELEVATION (2)
SCALE: ¼"=1'-0"



COLUMN SECTION (A)
SCALE: ¼"=1'-0"

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SHOWN FOR 4-BEAM SPAN. THE CANTILEVER PIER WILL BE THE SAME FOR OTHER SPANS WITH MORE BEAMS WHICH ARE NOT SHOWN FOR CLARITY.

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CONTRACT SHEET No. 16 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	E. OU
DESIGNED	E. OU
CHECKED	K. ZHOU
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE B4
SHEET 4 OF 11

CONTRACT | DWG No. SC8-0018 | REV

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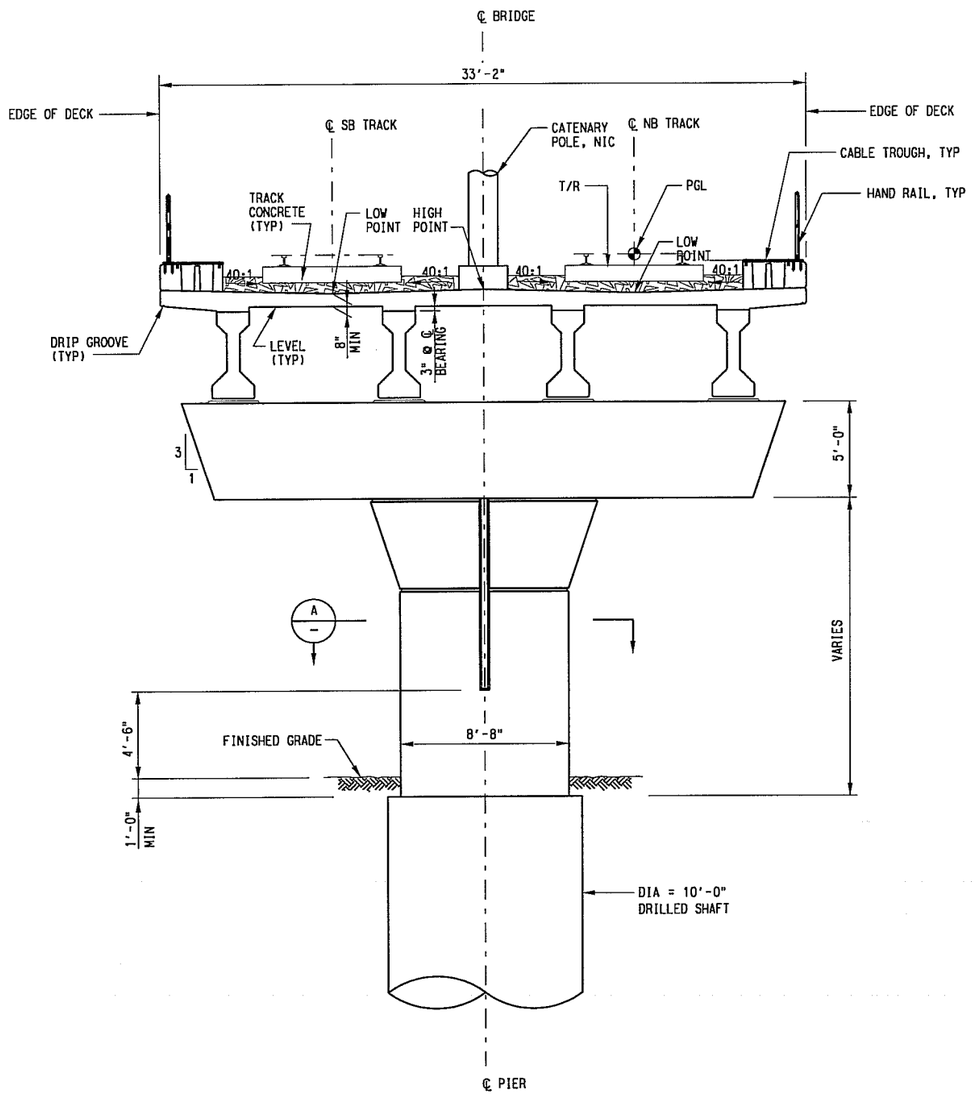

TYPICAL SECTION (1)
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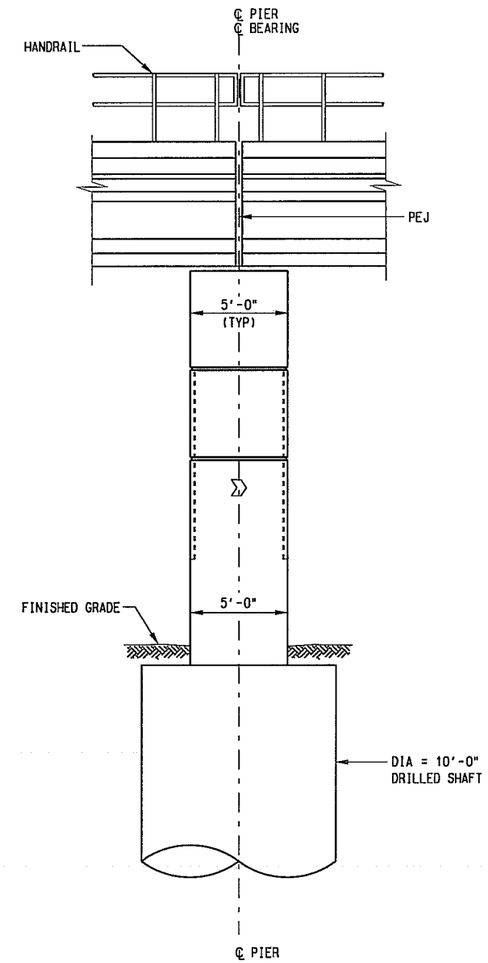

TYPICAL PIER ELEVATION (2)
SCALE: ¼"=1'-0"

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0015 FOR COLUMN SECTION A.

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE B5
SHEET 5 OF 11

CONTRACT	DWG No.	REV
	SC8-0019	

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7/14/2010
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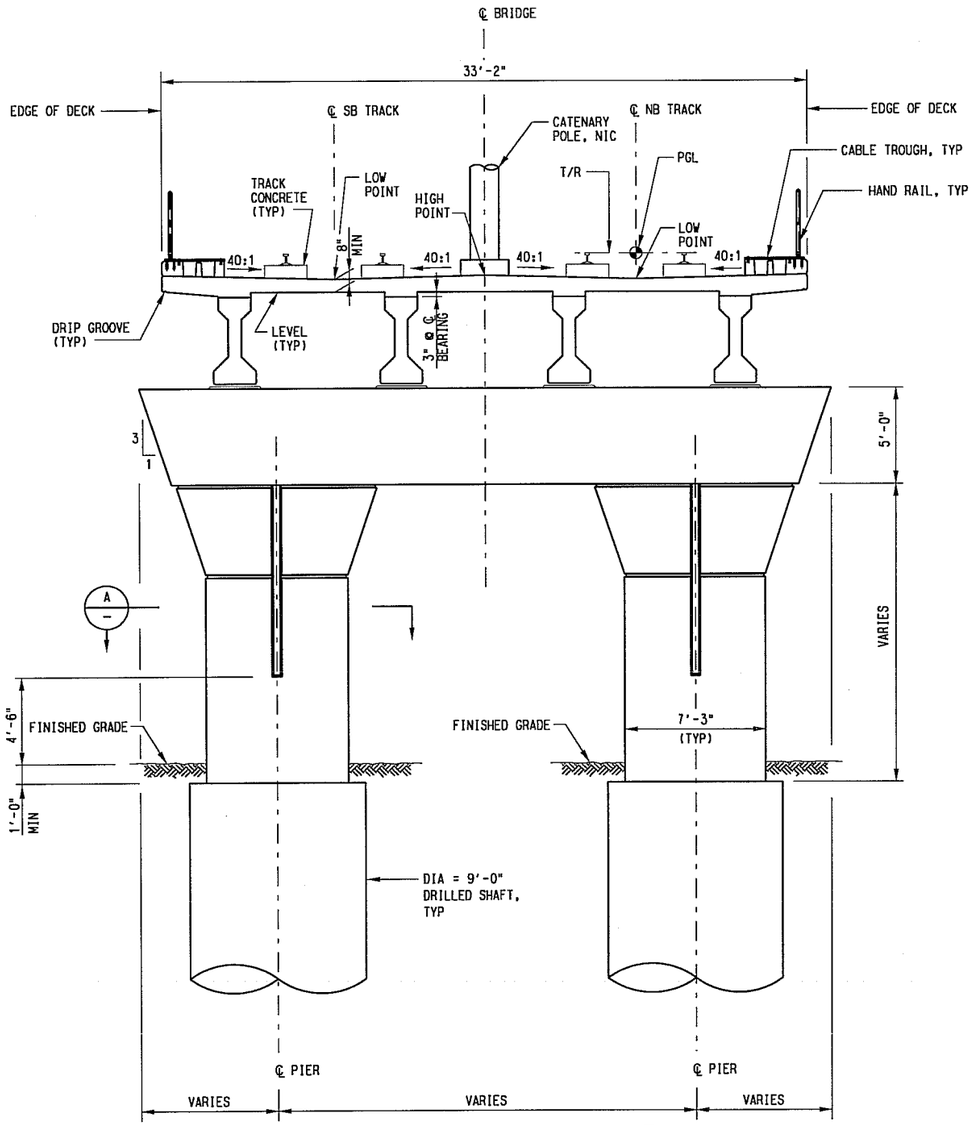
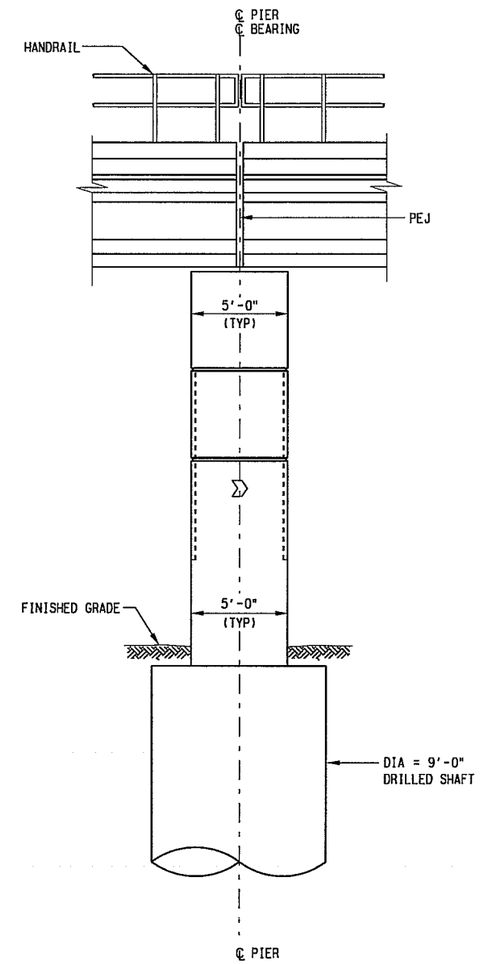
DWG No. SC8-0020

NOTES:

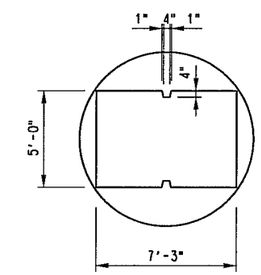
1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.



TYPICAL SECTION 1
SCALE: ¼"=1'-0"



TYPICAL PIER ELEVATION 2
SCALE: ¼"=1'-0"



COLUMN SECTION A
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 18 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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IN CHARGE	J. SMILEY
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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE C1
SHEET 6 OF 11

CONTRACT	DWG No.	REV
	SC8-0020	

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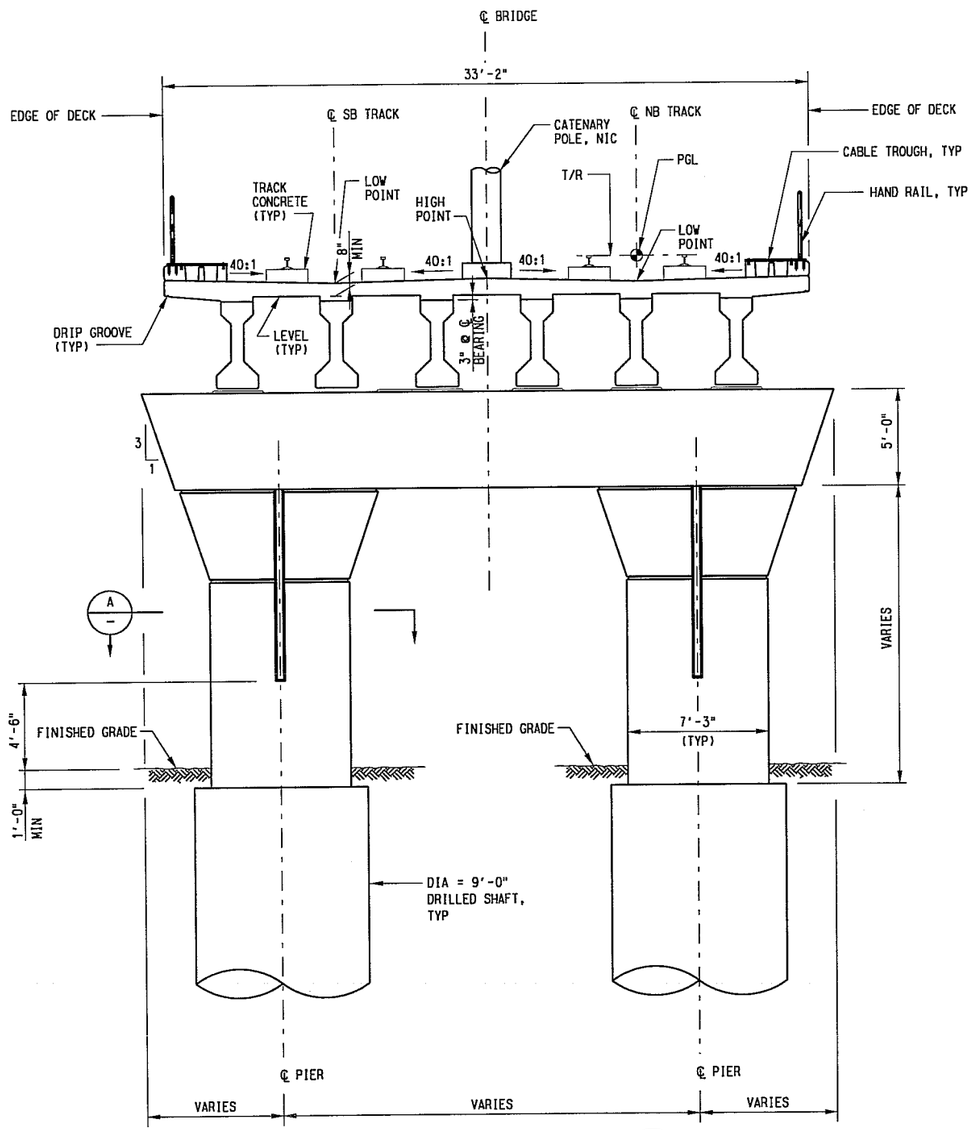
NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SCB-0020 FOR COLUMN SECTION A.



TYPICAL SECTION 1
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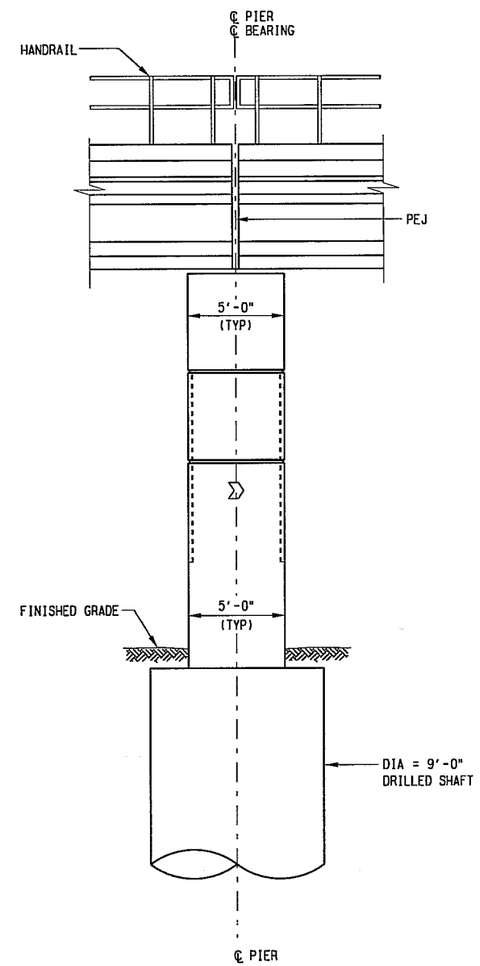

TYPICAL PIER ELEVATION 2
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 19 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE C2
SHEET 7 OF 11

CONTRACT | DWG No. SCB-0021 | REV

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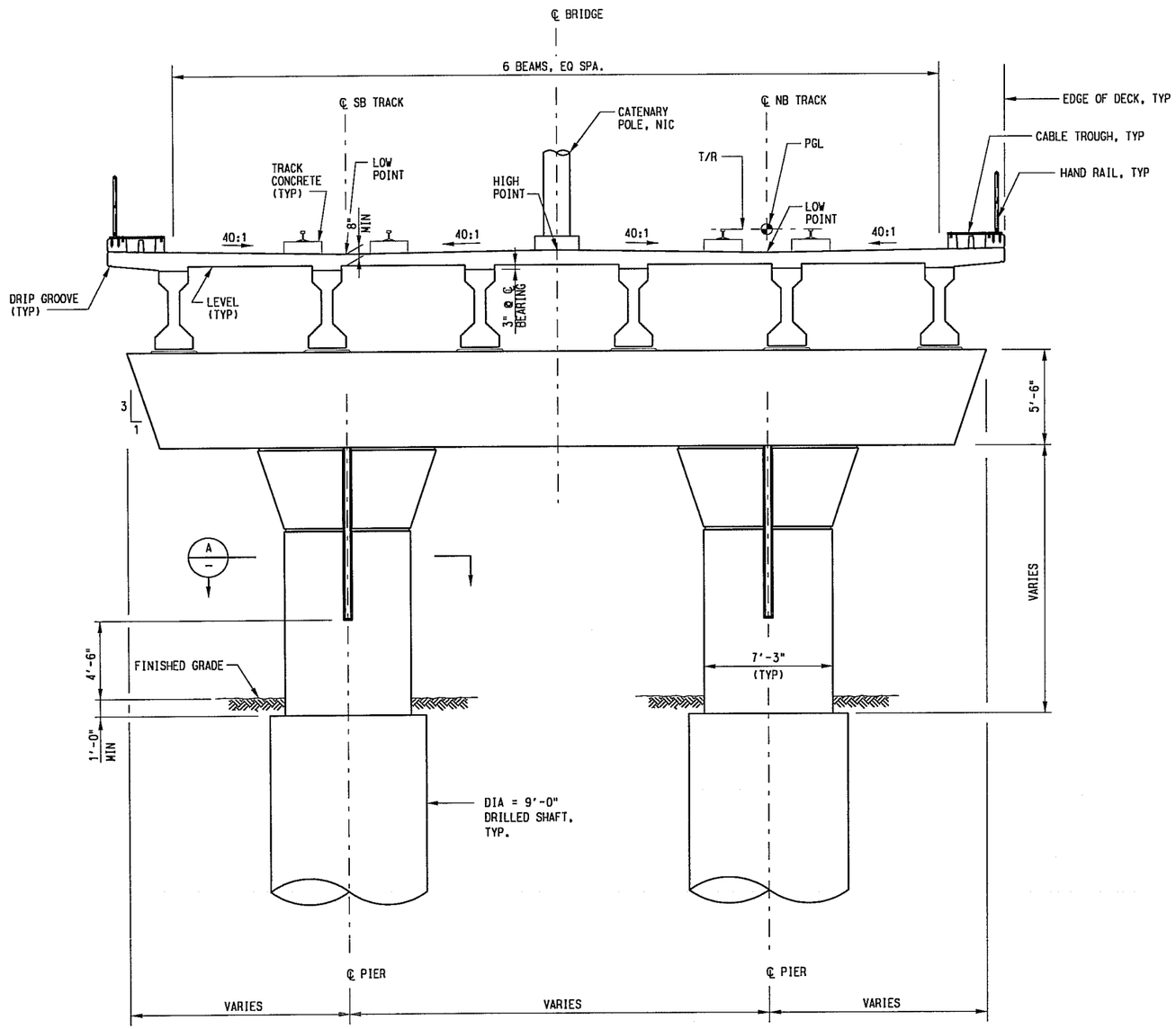
7/14/2010

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0020 FOR COLUMN SECTION A.



TYPICAL SECTION (1)
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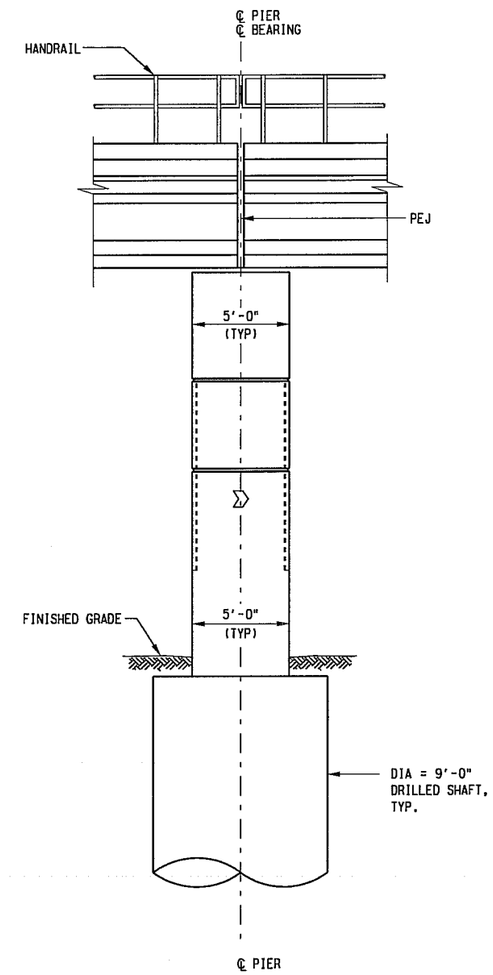

TYPICAL PIER ELEVATION (2)
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 20 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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IN CHARGE	J. SHILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE C3
SHEET 8 OF 11

CONTRACT	DWG No.	REV
	SC8-0022	

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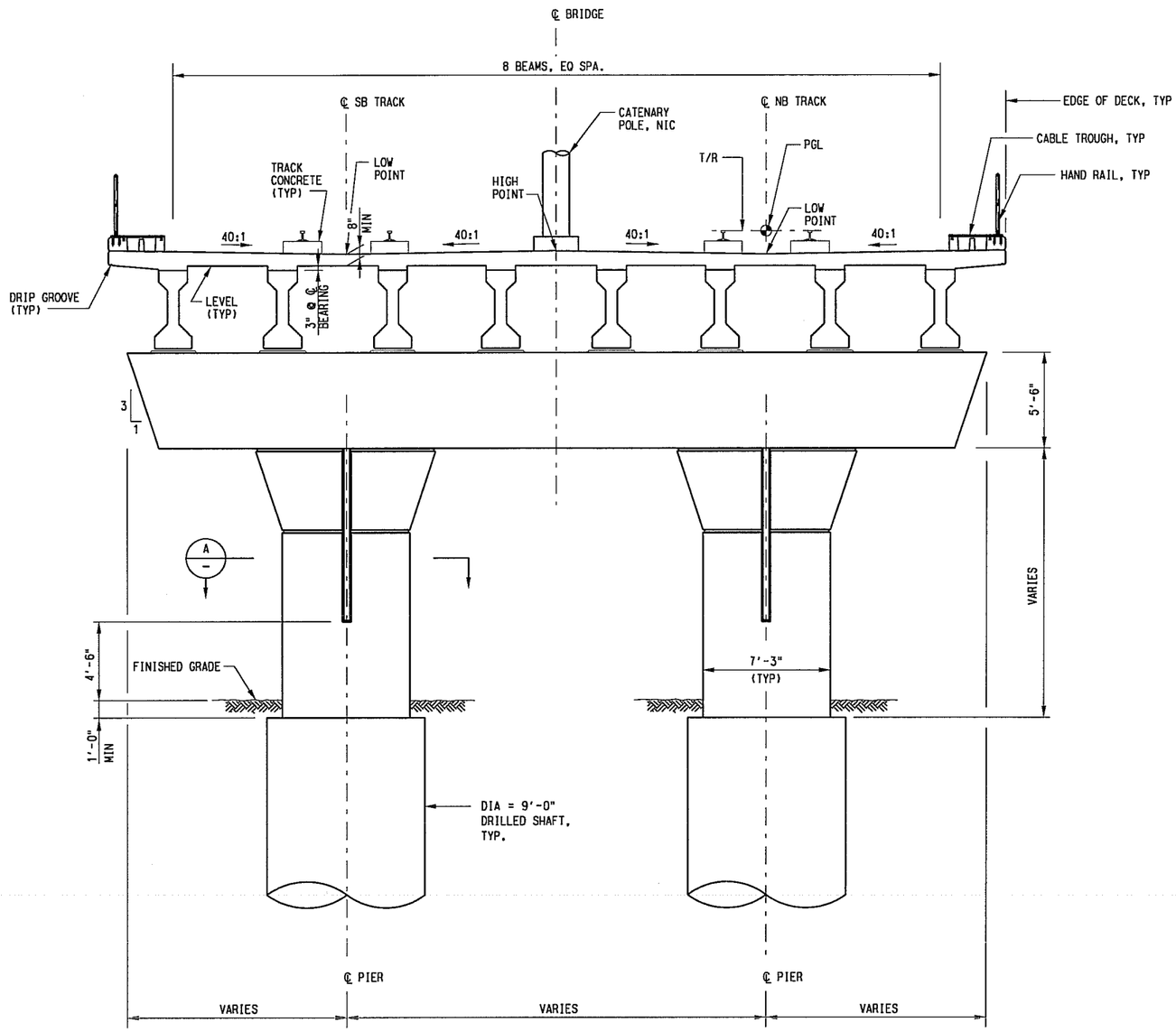
DWG No. SC8-0023

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0020 FOR COLUMN SECTION A.



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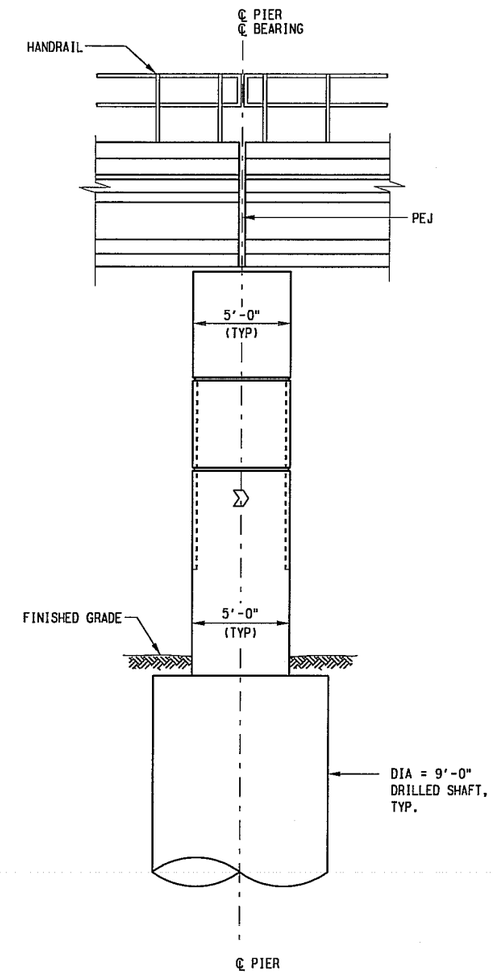

TYPICAL PIER ELEVATION (2)
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 21 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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IN CHARGE	J. SMILEY
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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE C4
SHEET 9 OF 11

CONTRACT | DWG No. SC8-0023 | REV

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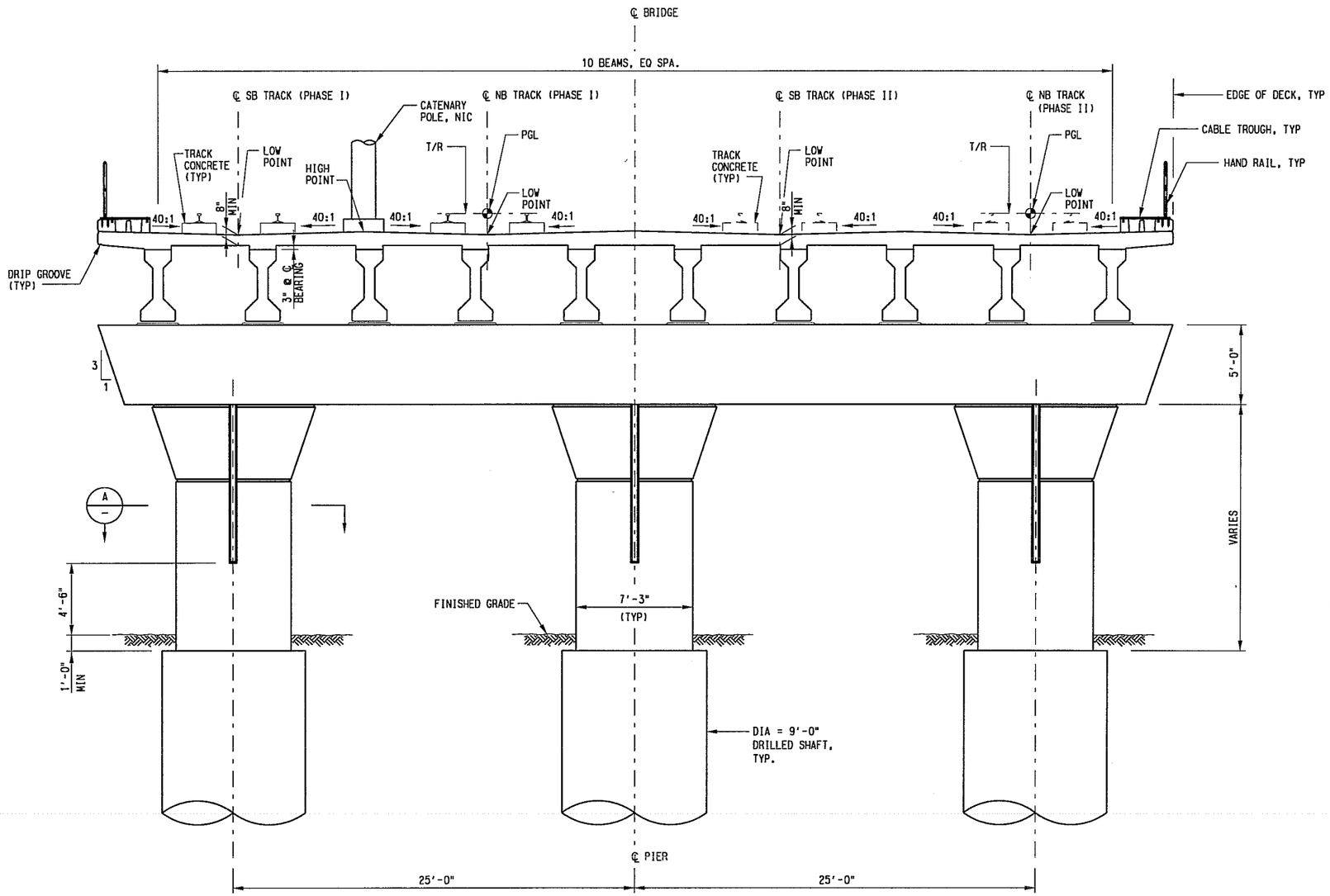
$$MODEL$$
7/14/2010

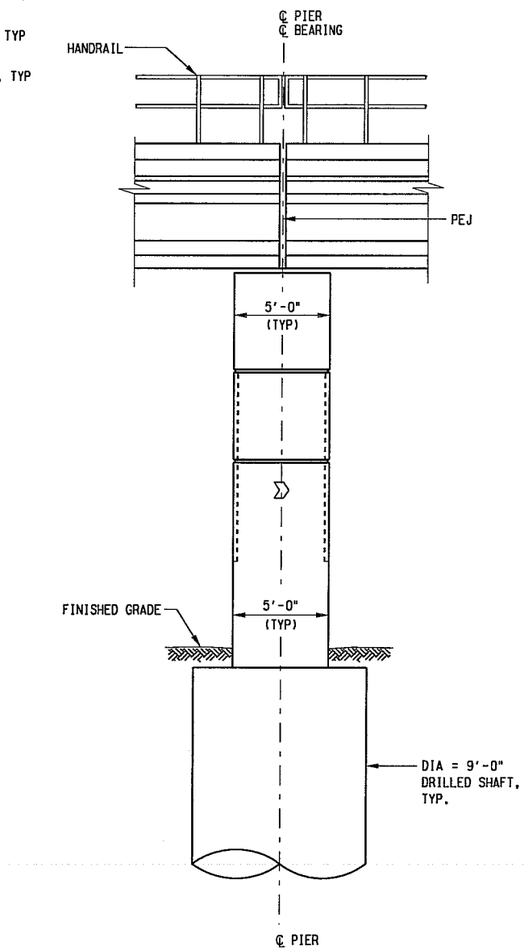
DWG No. SC8-0024

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0020 FOR COLUMN SECTION A.



TYPICAL SECTION 1
N.T.S.



TYPICAL PIER ELEVATION 2
N.T.S.

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CONTRACT SHEET No. 22 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE C5
SHEET 10 OF 11

CONTRACT	DWG No.	REV
	SC8-0024	

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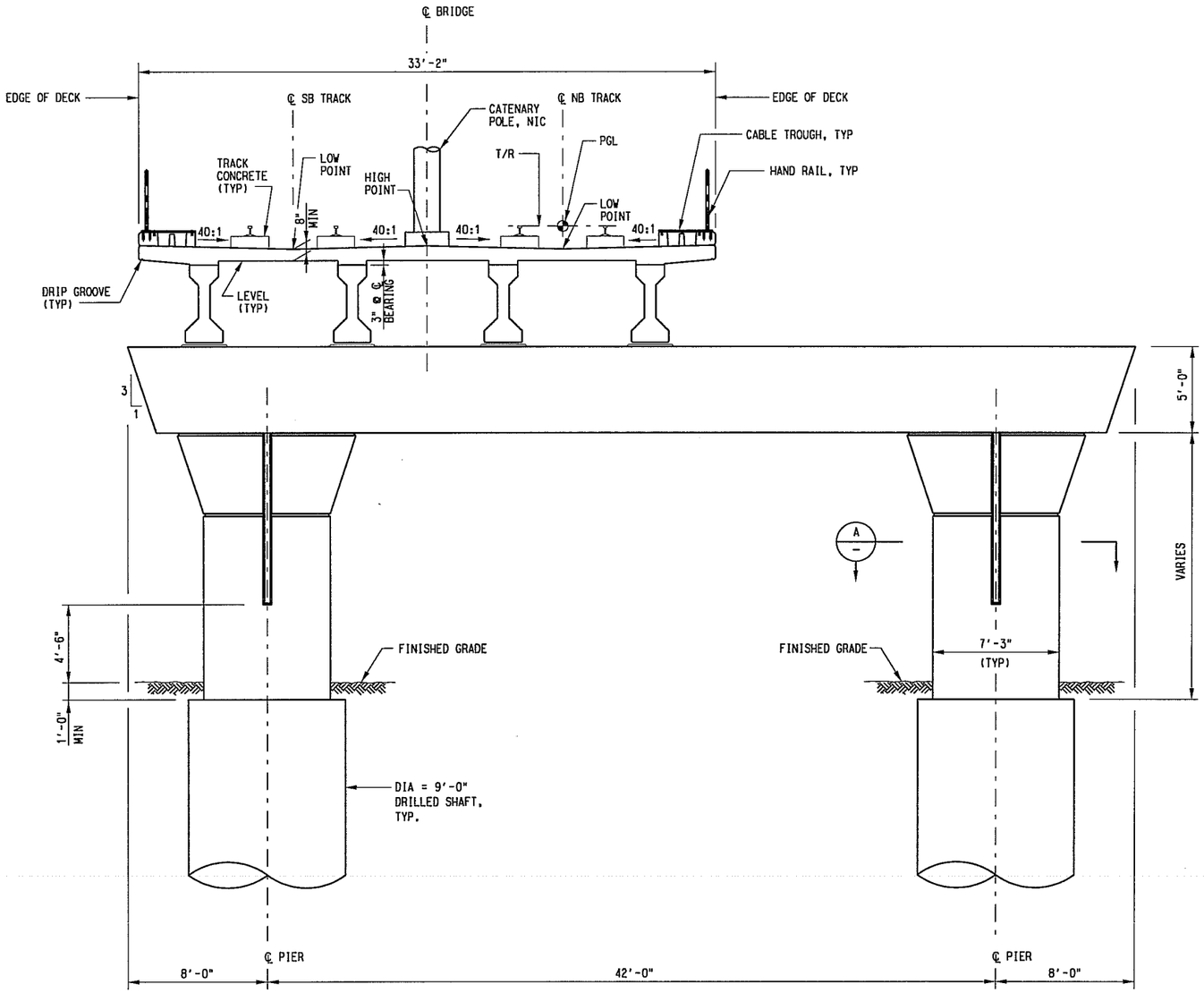
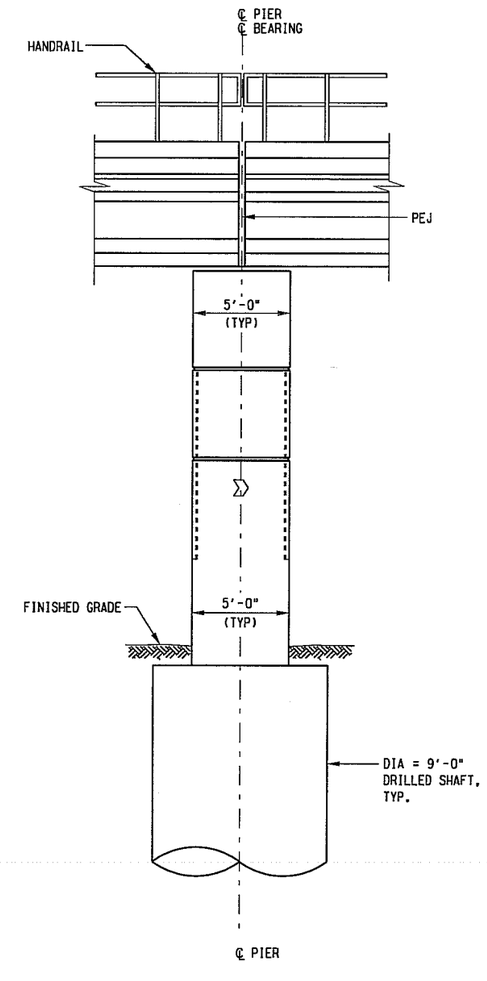
DWG No. SC8-0025

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. SEE DWG No. SC8-0020 FOR COLUMN SECTION A.



TYPICAL SECTION (1)
SCALE: ¼"=1'-0"



TYPICAL PIER ELEVATION (2)
SCALE: ¼"=1'-0"

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CONTRACT SHEET No. 23 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

TYPICAL SECTION
PIER TYPE D
SHEET 11 OF 11

CONTRACT | DWG No. SC8-0025 | REV

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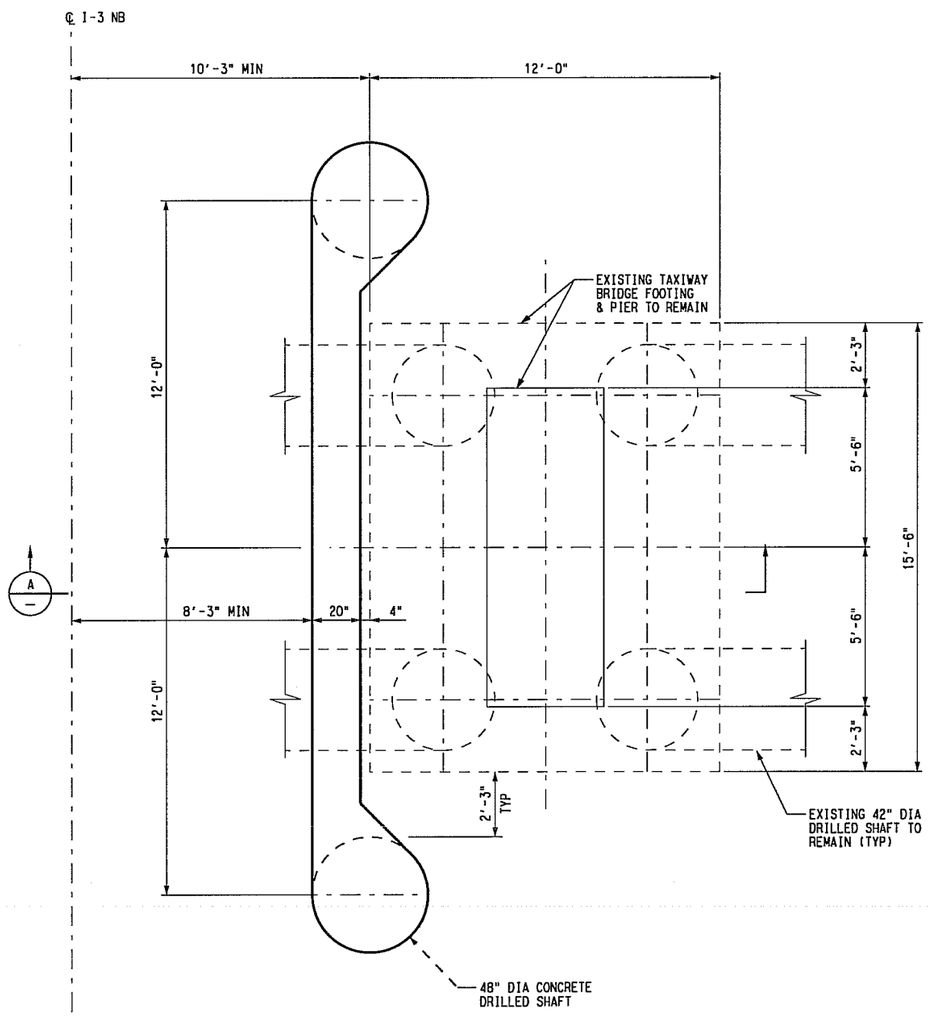
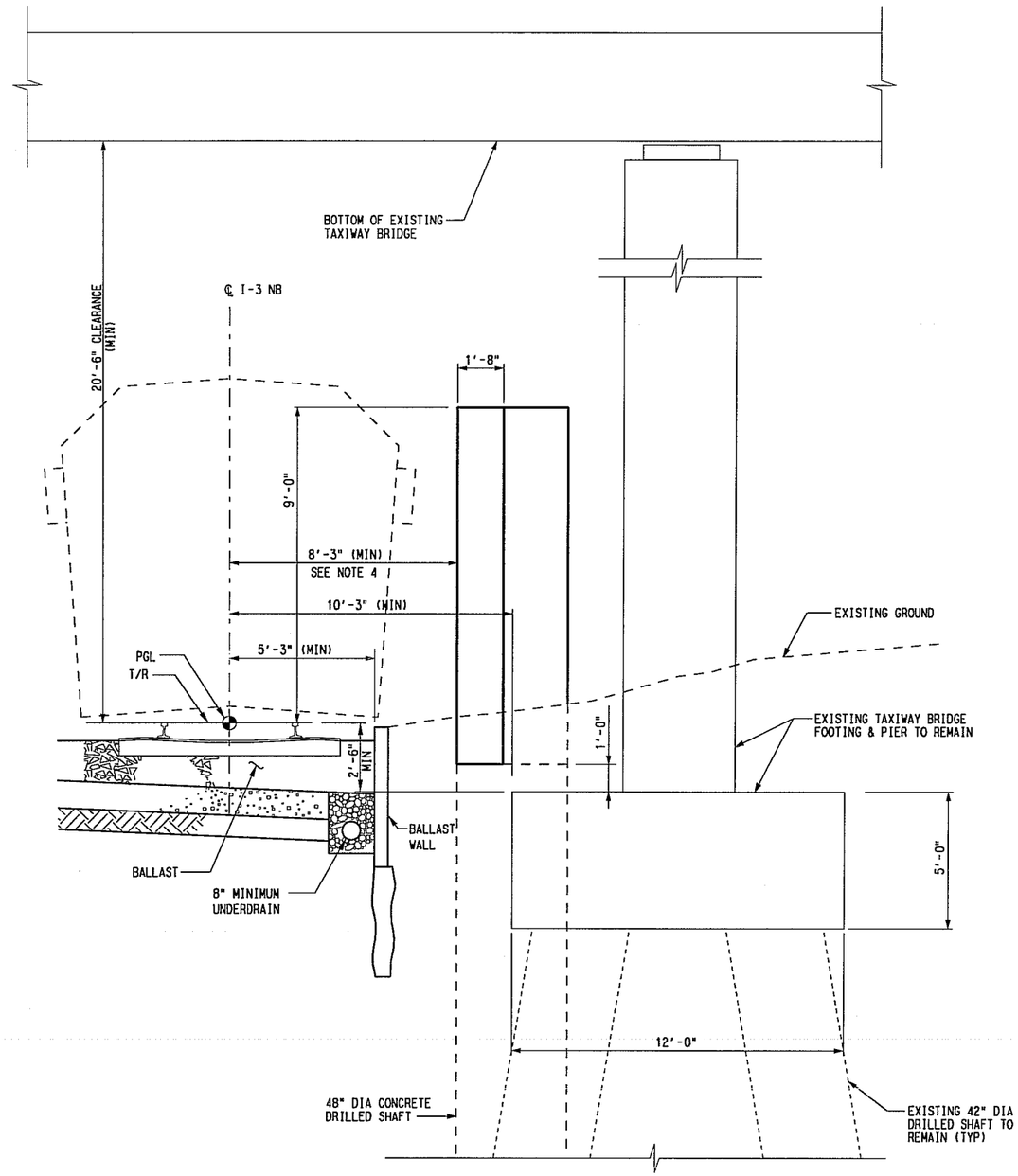
DWG No. SC8-0026



PLAN
SCALE: 3/8" = 1'-0"



SECTION A
SCALE: 3/8" = 1'-0"

NOTES:

1. FOR PROFILE GRADE LINE, SEE GUIDEWAY PLAN AND PROFILE DRAWINGS.
2. PROVIDE THE PROTECTION WALL TO ALL THE TAXIWAY BRIDGE PIERS LOCATED WITHIN 25'-0" FROM THE NEAREST TRACK CENTER LINE. SEE CIVIL DRAWINGS FOR LOCATIONS OF THE PROTECTION WALL AND DETAILS ON BALLAST TRACK AND BALLAST WALL.
3. THE INFORMATION ON THE EXISTING STRUCTURE WAS OBTAINED FROM DFW AIRPORT DRAWINGS FOR TAXIWAY BRIDGES 18E/18W AND 32E/32W, ISSUED IN 5/82 (CONTRACT NUMBER C-278-82). THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION ON THE EXISTING STRUCTURE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS NEEDED DURING THE CONSTRUCTION TO MAINTAIN THE NORMAL OPERATION OF THE EXISTING TAXIWAY BRIDGE PIER FOOTINGS.
4. THIS SEGMENT OF THE TRACK SHALL BE RESTRICTED AND WARNING SIGNS SHALL BE POSTED.

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CONTRACT SHEET No. 24 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	E. OU
CHECKED	K. ZHOU
IN CHARGE	J. SHILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

EXISTING DFW AIRPORT
TAXIWAY BRIDGE
DRILLED SHAFT PROTECTION WALL
SHEET 1 OF 2

CONTRACT	DWG No.	REV
	SC8-0026	

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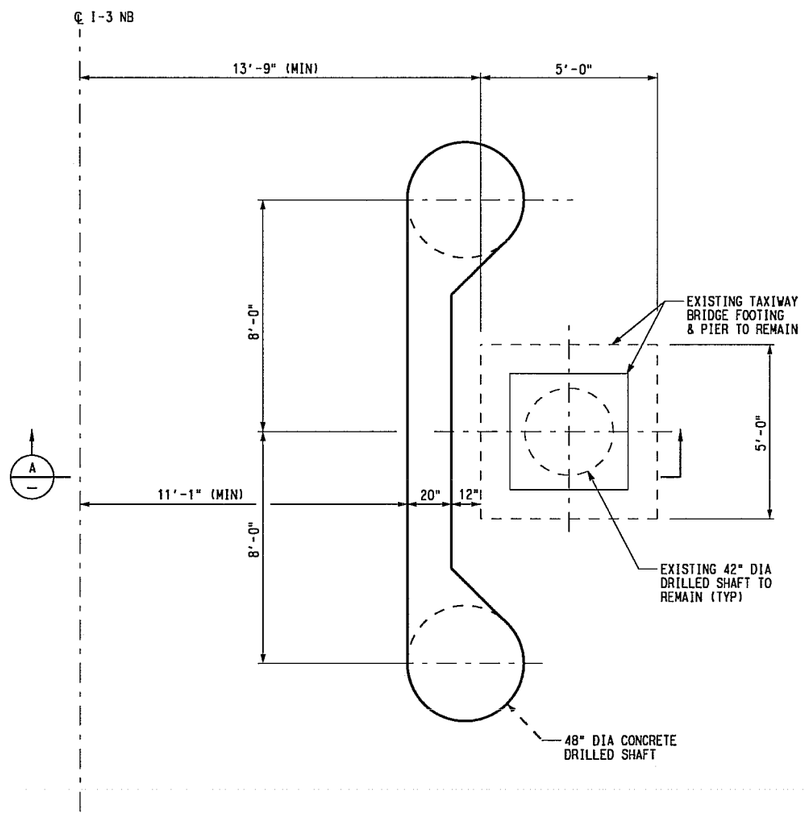
7/14/2010

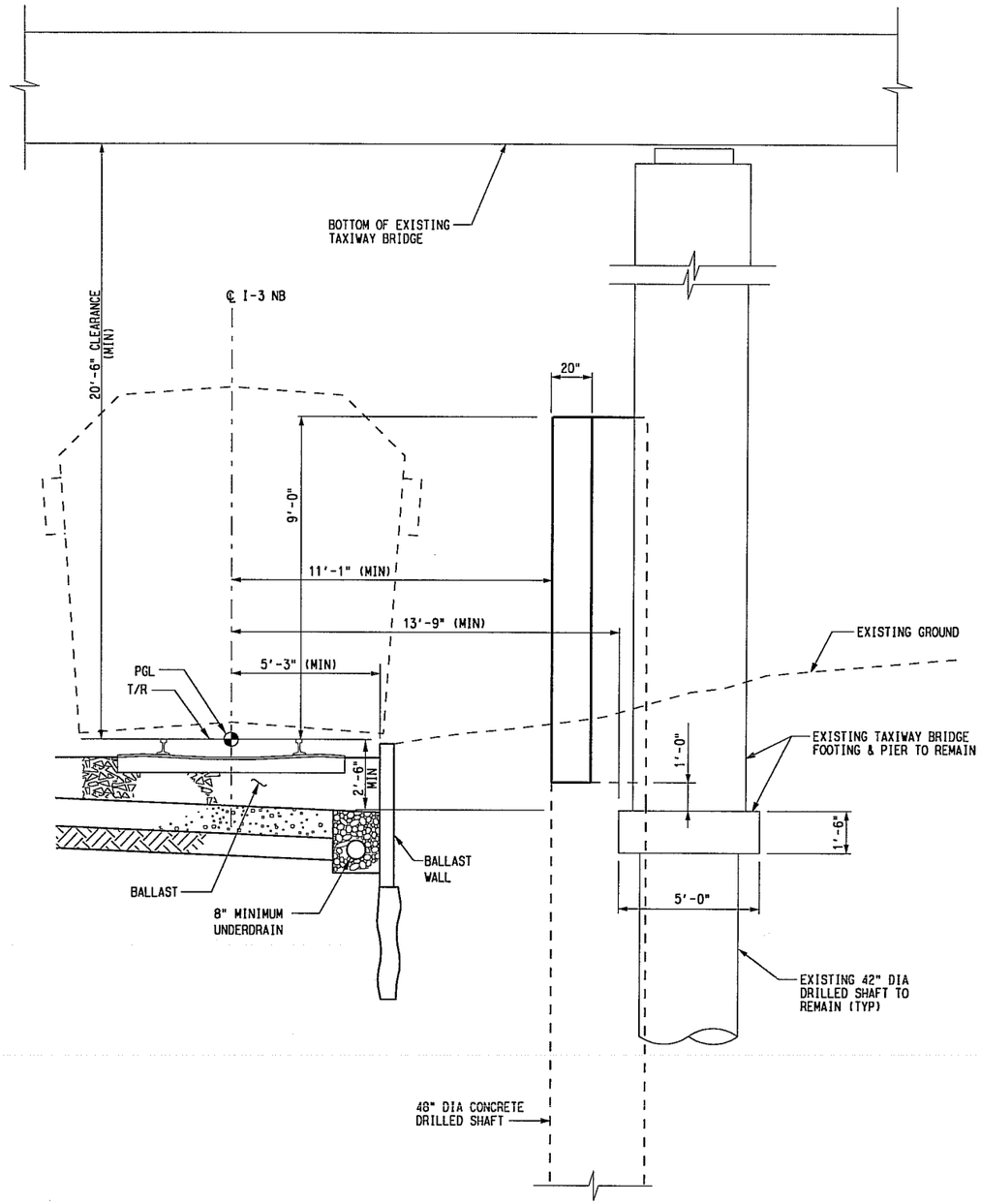
DWG No. SC8-0027

NOTES:

1. SEE DWG No. SC8-0026 FOR NOTES.



PLAN
SCALE: 3/8" = 1'-0"



SECTION A
SCALE: 3/8" = 1'-0"

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CONTRACT SHEET No. 25 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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

DART PROJECT

DART

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SCALE	AS NOTED
DRAWN	D. KELLY
DESIGNED	E. OU
CHECKED	K. ZHOU
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

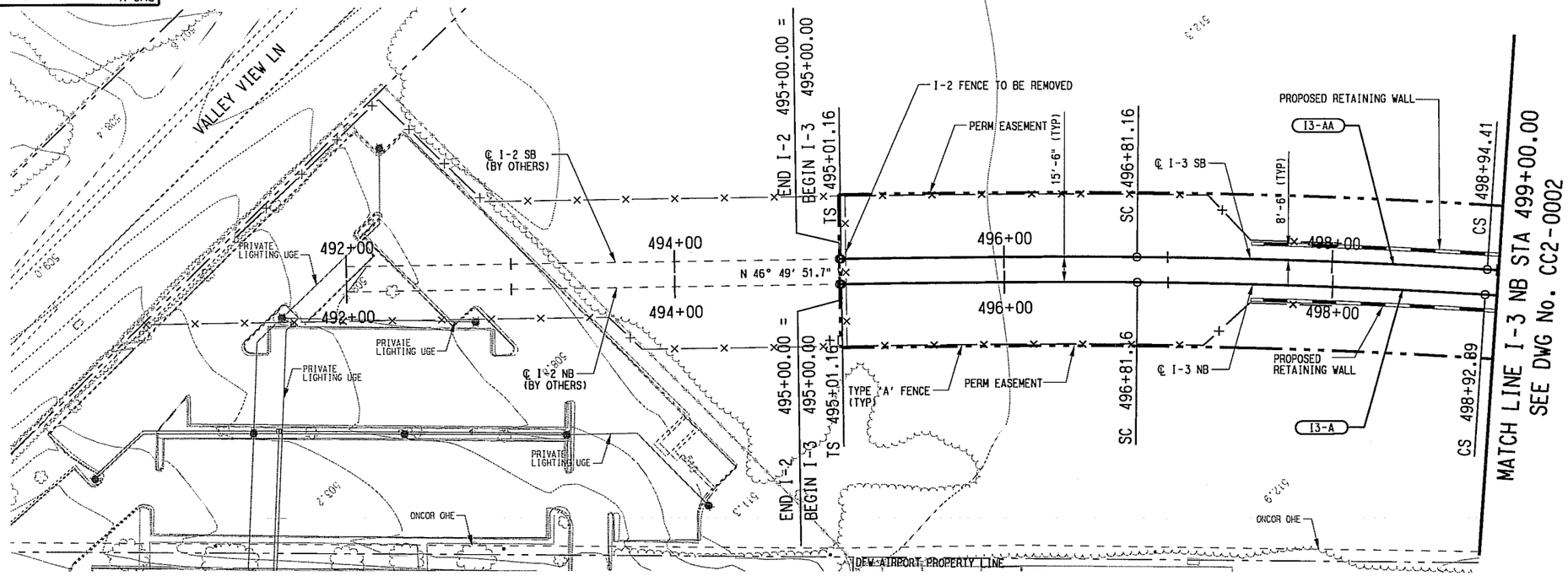
EXISTING DFW AIRPORT
TAXIWAY BRIDGE
DRILLED SHAFT PROTECTION WALL
SHEET 2 OF 2

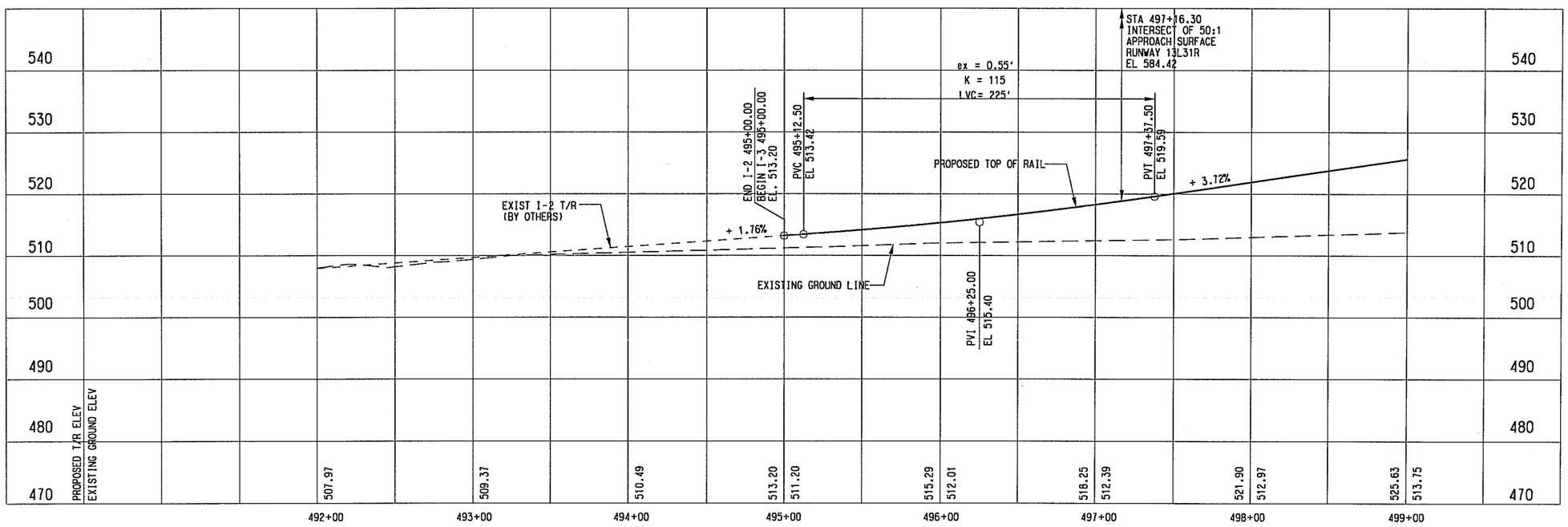
CONTRACT	DWG No.	REV
	SC8-0027	

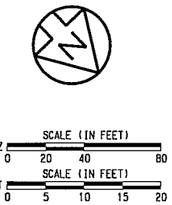
\\dm-fpsd4\dm_projects\25337852.00001 dart I-3\dgn\CIVIL-STRUCTURES\SC8-0027.dgn
dan.kling_V8
$$WORSLES$
7/14/2010

DWG No. CC2-0001

P0001







I3-A (NB)		I3-AA (SB)	
Rc=	3980.00'	Rc=	3995.50'
Ls=	180.00'	Ls=	180.00'
Lc=	211.72'	Lc=	213.25'
Ea=	2.75"	Ea=	2.75"
Eu=	1.50"	Eu=	1.48"
V=	65 MPH	V=	65 MPH

NOTES:

1. SEE RIGHT-OF-WAY PLANS FOR EASEMENT AND RIGHT-OF-WAY REQUIREMENTS.
2. SEE EXISTING UTILITY COMPOSITE SHEETS FOR NOTES AND DETAILS OF EXISTING UTILITIES.
3. SEE UTILITY MODIFICATION SHEETS FOR UTILITY MODIFICATIONS.
4. SEE STREET MODIFICATION SHEETS FOR STREET MODIFICATIONS.
5. THE CONTROL ALIGNMENT STATIONING IS BASED ON THE CENTERLINE STATIONING OF THE NB TRACK.
6. OFFSETS SHOWN TO RETAINING WALLS ARE TO THE INSIDE FACE OF THE RETAINING WALL, NOT THE COPING FOR MSE WALLS.
7. SEE HORIZONTAL AND VERTICAL CONTROL SHEETS FOR BENCHMARK LOCATIONS.
8. FINAL DESIGNER SHALL VERIFY THE TIE IN LOCATION WITH LINE SECTION I-2.

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PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 26 OF 62

REV	AMEND	CM	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

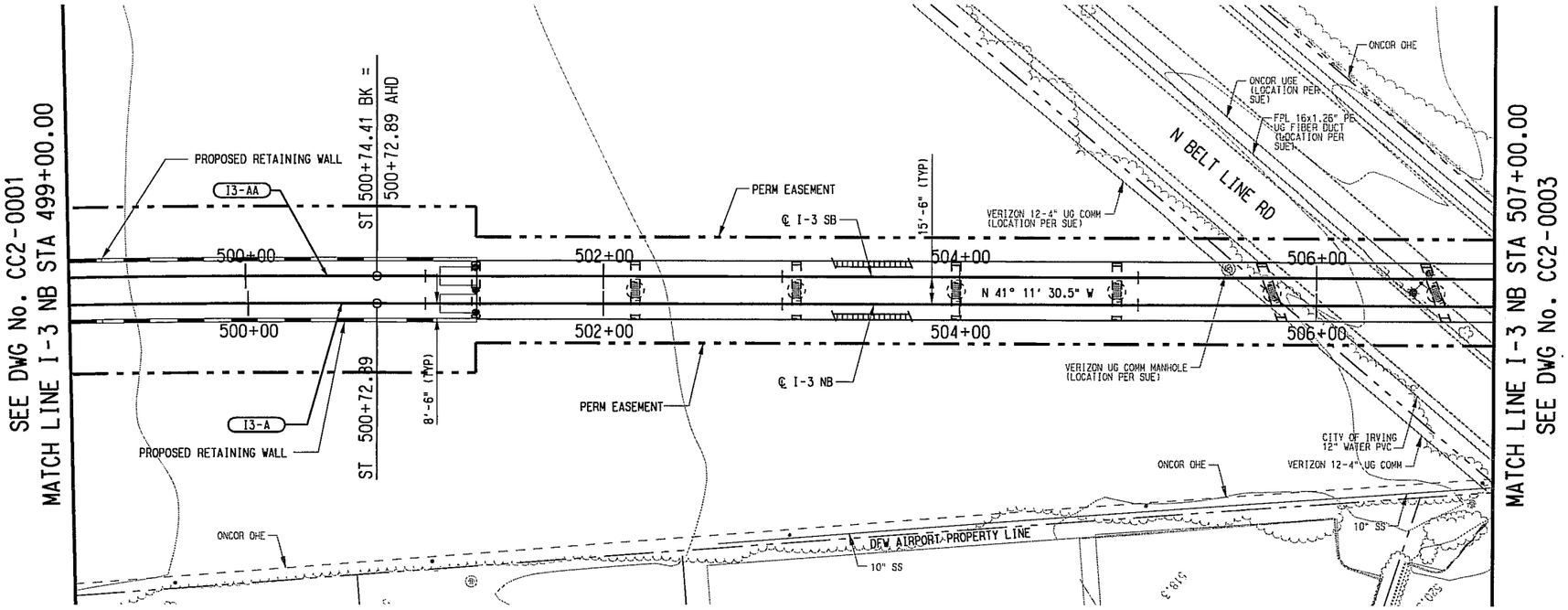
GUIDEWAY PLAN AND PROFILE
STA 495+00.00 TO STA 499+00.00

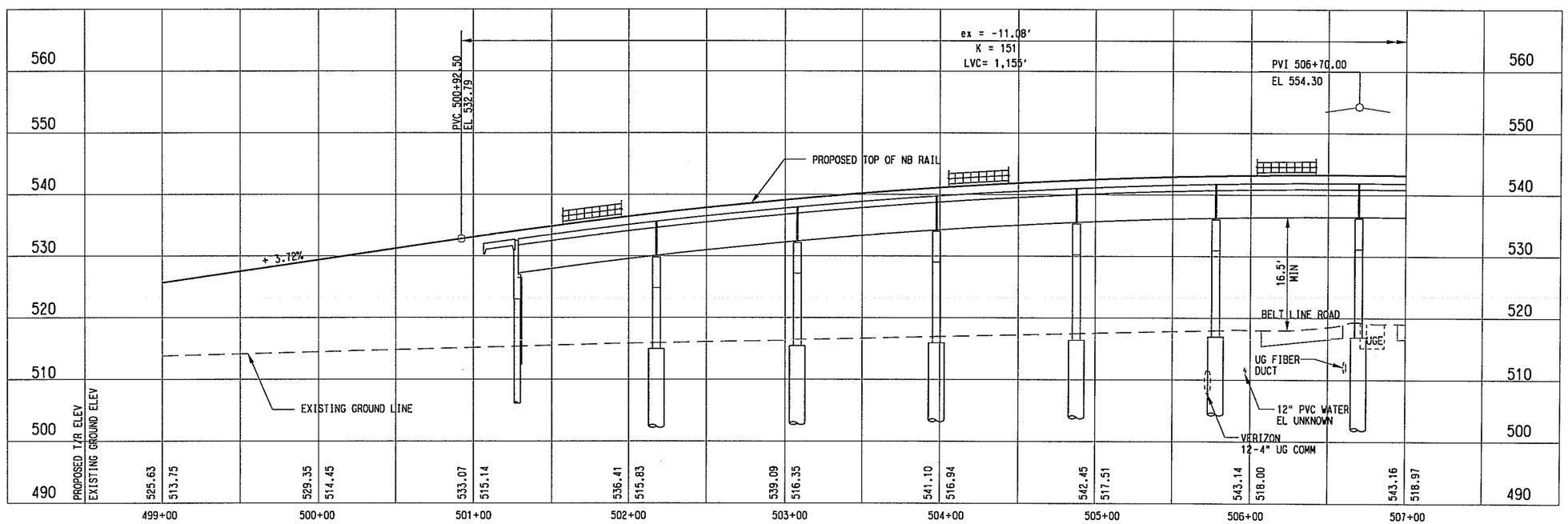
CONTRACT	DWG No.	REV
	CC2-0001	

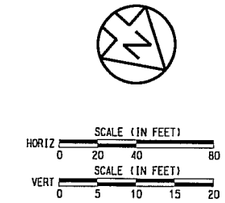
\\dm-fpsd4\dm_projects\25337852.00001 dart I-3\dgn\CVL-ALI\R3XALD1.DGN
dan_king_YB
$$MODELS
7/14/2010

DWG No. CC2-0002

P0002







I3-A (NB)		I3-AA (SB)	
Rc=	3980.00'	Rc=	3995.50'
Ls=	180.00'	Ls=	180.00'
Lc=	211.72'	Lc=	213.25'
Eα=	2.75"	Eα=	2.75"
Eu=	1.50"	Eu=	1.48"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 27 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 499+00.00 TO STA 507+00.00

CONTRACT	DWG No.	REV
	CC2-0002	

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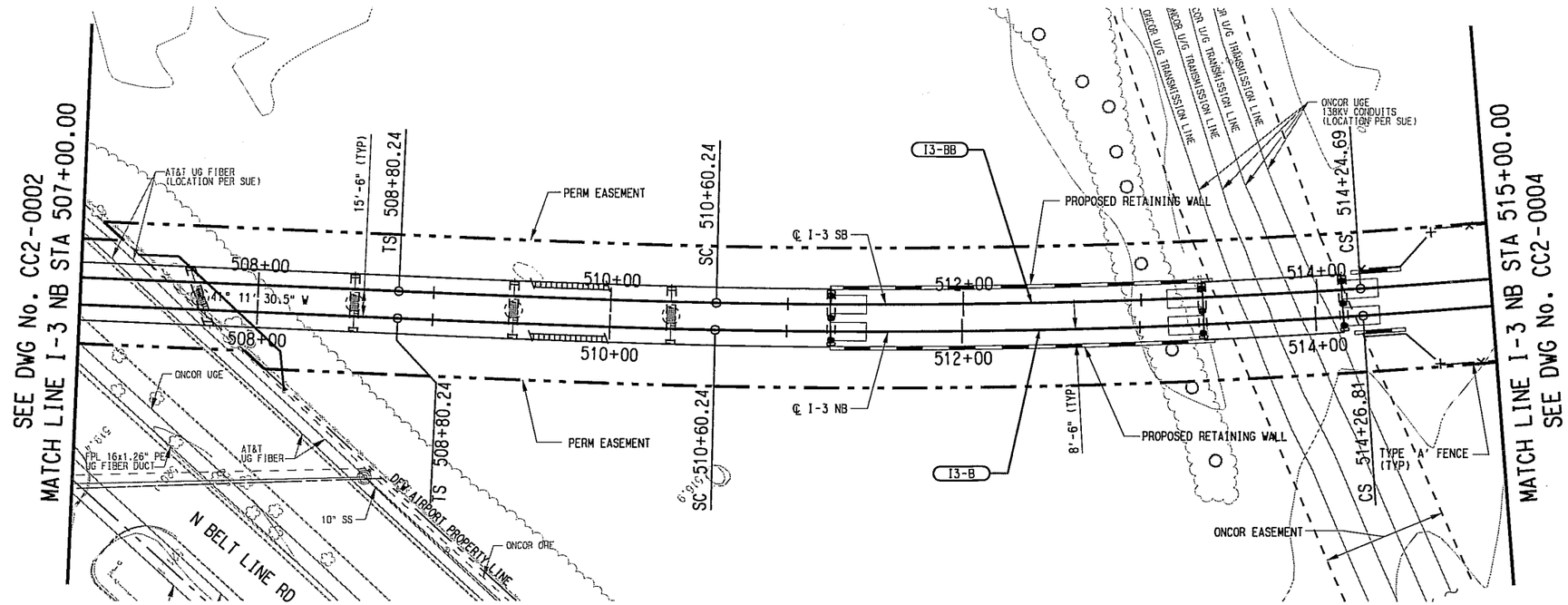
don_king_VG
$$HOUSELS$$
7/14/2010

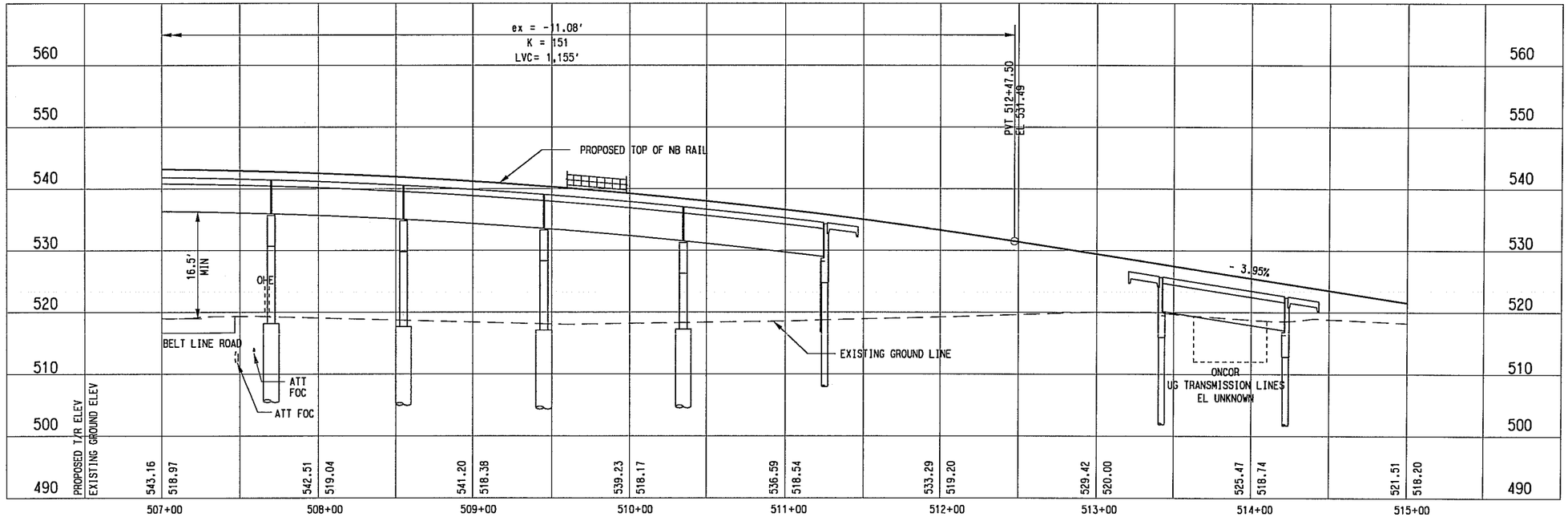


SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

I3-B (NB)		I3-BB (SB)	
Rc=	3995.50'	Rc=	3980.00'
Ls=	180.00'	Ls=	180.00'
Lc=	366.57'	Lc=	364.45'
Eq=	2.75"	Eq=	2.75"
Eu=	1.48"	Eu=	1.50"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. FINAL DESIGNER SHALL COORDINATE WITH ONCOR FOR THE CROSSING OF THE UNDERGROUND TRANSMISSION LINES.



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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 28 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 507+00.00 TO STA 515+00.00

CONTRACT	DWG No.	REV
	CC2-0003	

\\dm-fps04\dm_projects\25337826.00001 dgn I-3\dgn\CVL-ALI\R3ALI03.DGN
dan_king_VB
$$NODELS$
7/14/2010
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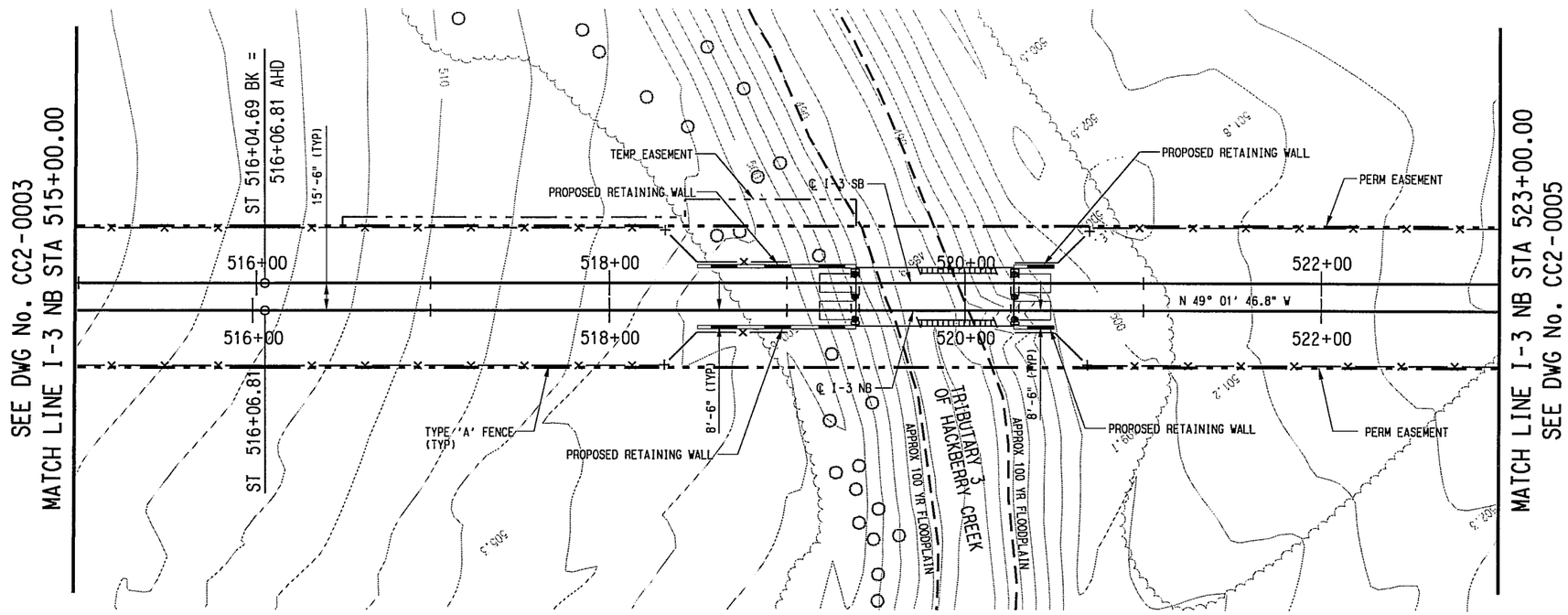

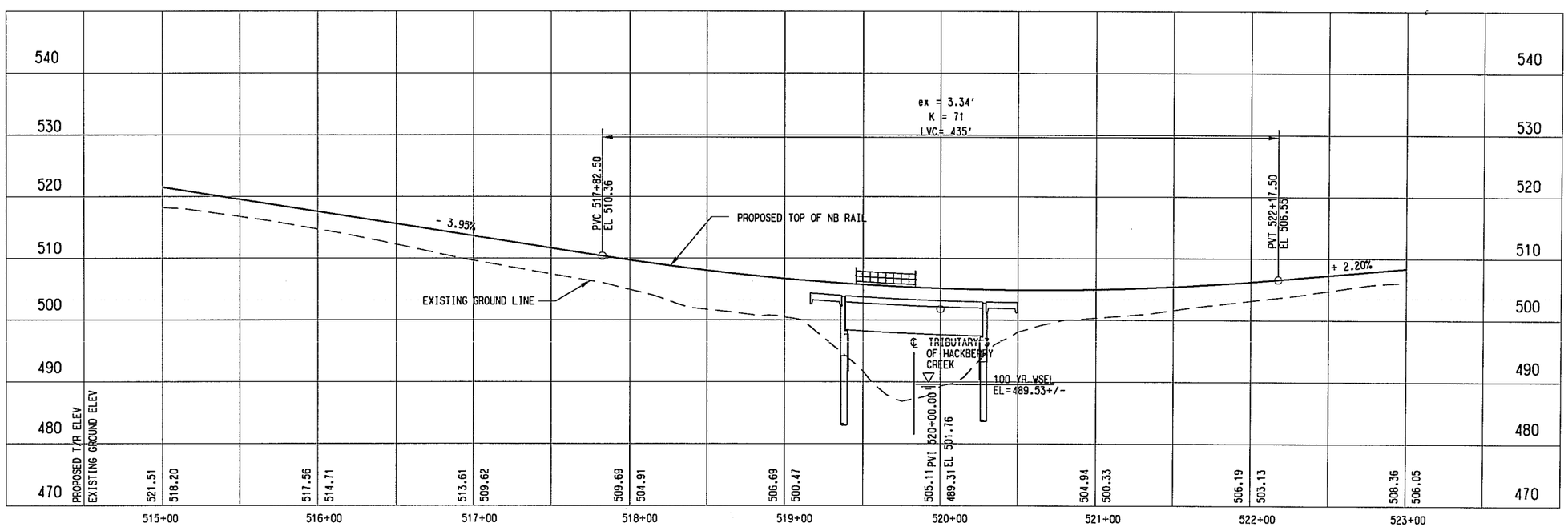

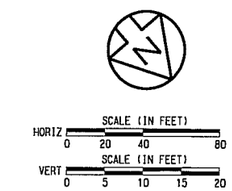

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 29 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 515+00.00 TO STA 523+00.00

CONTRACT	DWG No.	REV
	CC2-0004	

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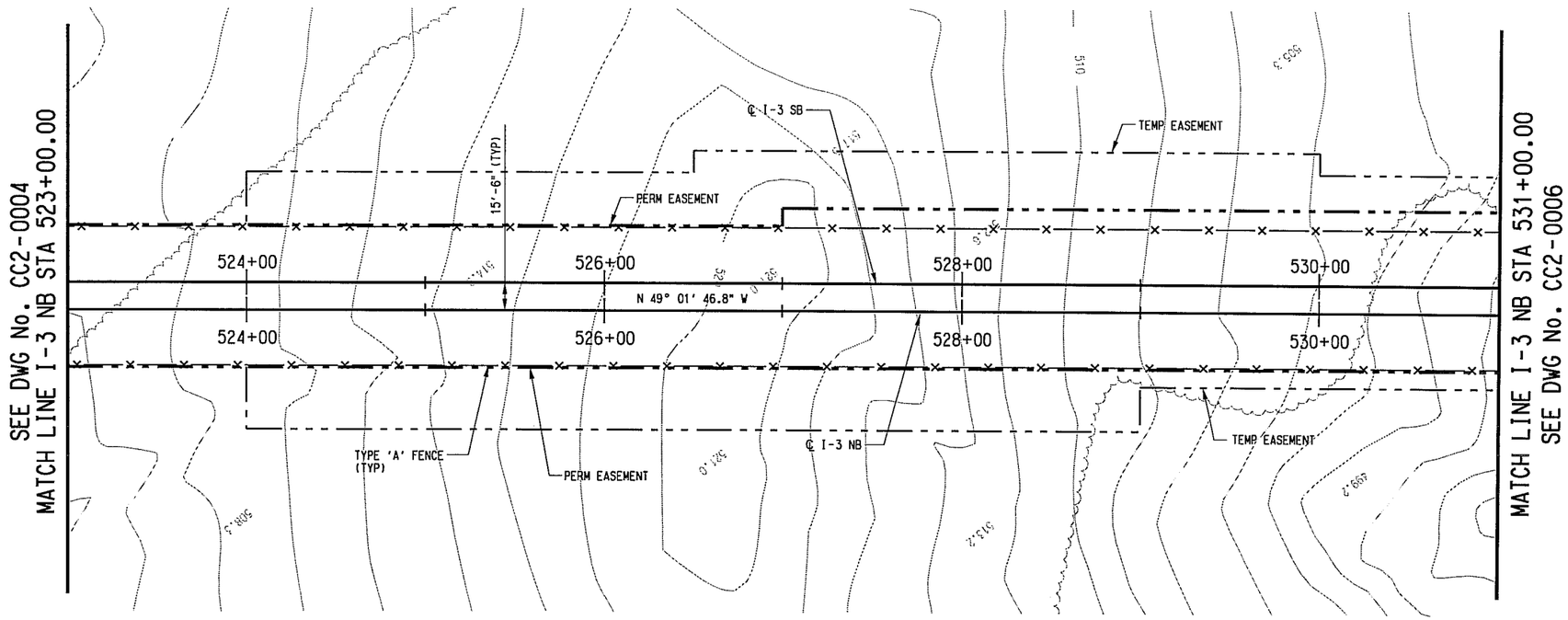
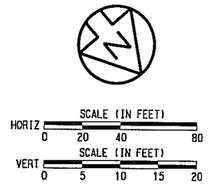
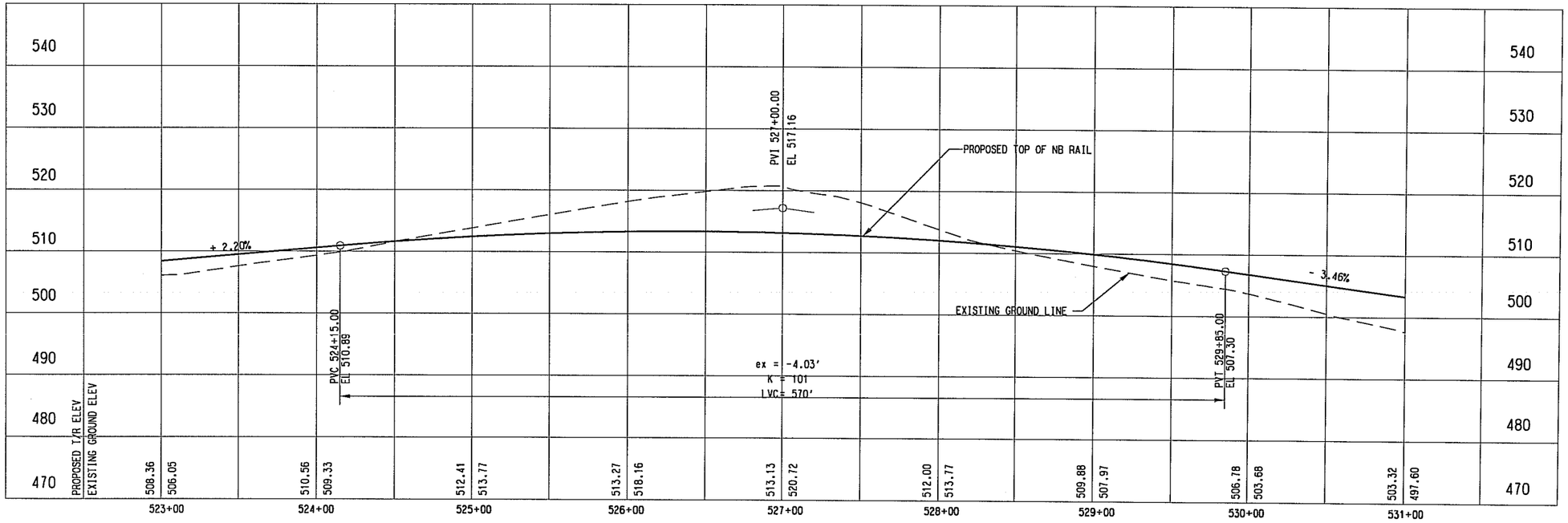
don_king_VB
$$NODEL$$
7/14/2010
\\dm-fps04\dm_projects\25337852.00001 dgn I-3\dgn\CVL-ALI\R3ALI04.DGN





NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 30 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 523+00.00 TO STA 531+00.00

CONTRACT	DWG No.	REV
	CC2-0005	

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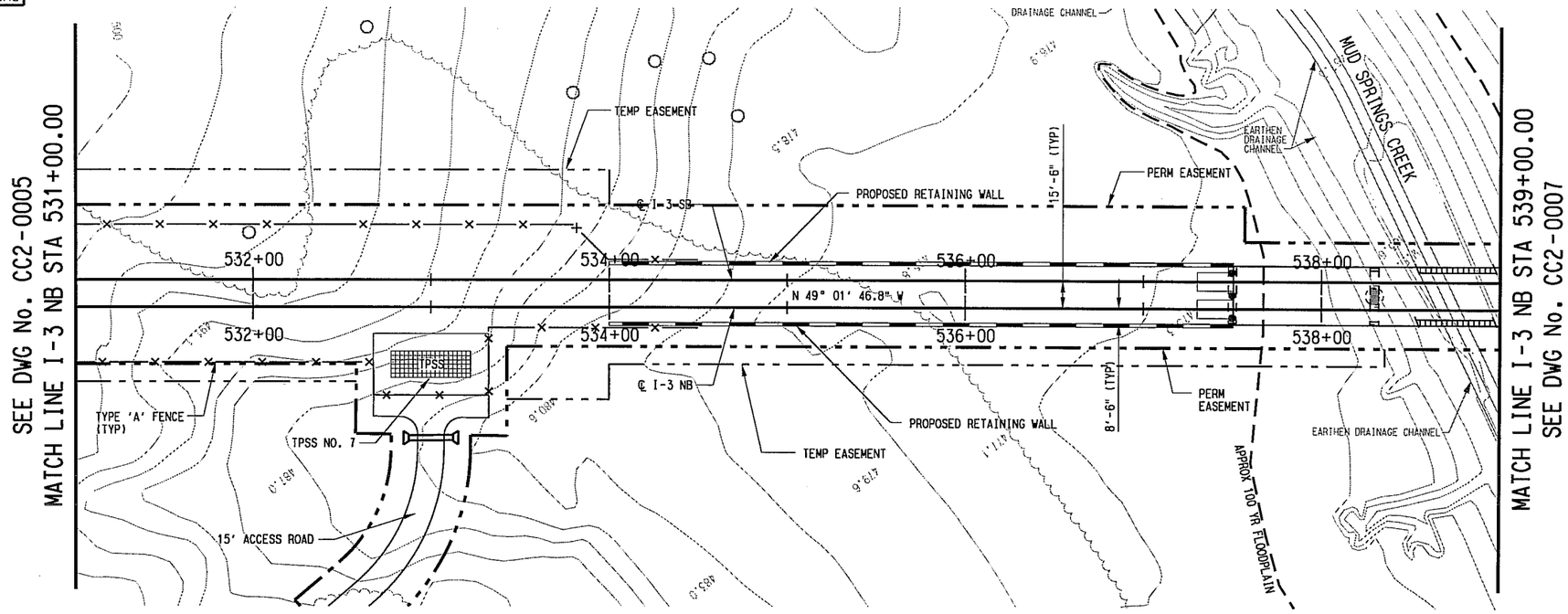
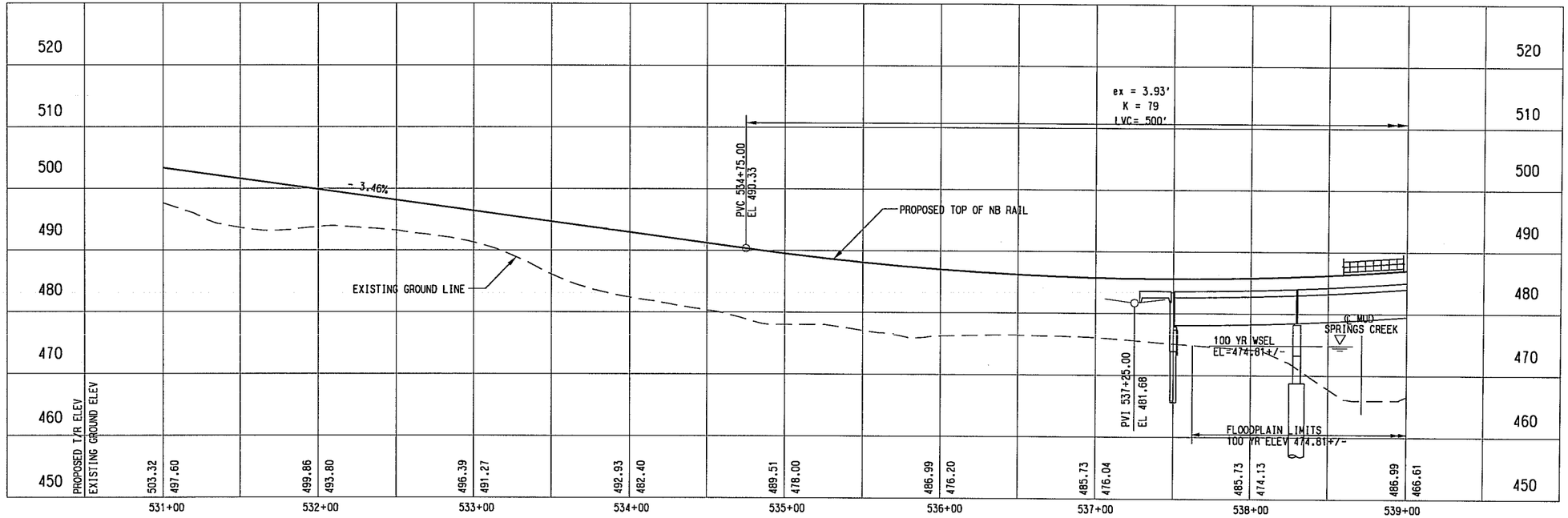
don_king_VB
$$MODEL$$
7/14/2010





LEGEND

GRADING FOR SYSTEMS ELEMENTS, TPSS, AND OTHER SYSTEMS ELEMENTS

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. PROPOSED TPSS LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL PERFORM A TRACTION POWER LOAD FLOW ANALYSIS FOR ALL PROPOSED TPSS LOCATIONS TO ENSURE ADEQUATE PLACEMENT. FINAL DESIGNER SHALL COORDINATE WITH ONCOR FOR THE POWER FEEDS TO THE TPSS LOCATIONS. FINAL DESIGNER WILL NEED TO COORDINATE THE POWER FEED DESIGN WITH DFW AIRPORT.
3. SUBSTATION SITE SHALL ACCOMMODATE TRACTION POWER SUBSTATION, SPDC, AND COMMUNICATION BUNGALOW.
4. THE PRELIMINARY LOCATION FOR THE PROPOSED ACCESS ROAD ASSUMES SHARED ACCESS WITH PRIVATE PROPERTY OWNER ADJACENT TO DFW AIRPORT. CURRENTLY THERE IS NO AGREEMENT IN PLACE FOR THE SHARED ACCESS. THE FINAL DESIGNER SHALL COORDINATE WITH DART TO FINALIZE AN AGREEMENT BETWEEN DART AND THE PRIVATE PROPERTY OWNER.
5. FINAL DESIGNER SHALL CONSIDER FIRE APPARATUS REQUIREMENTS WHEN DESIGNING ACCESS ROADS. COORDINATION WITH DFW AIRPORT FIRE DEPARTMENT SHALL CONTINUE THROUGH FINAL DESIGN.

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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 31 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 531+00.00 TO STA 539+00.00

CONTRACT	DWG No.	REV
	CC2-0006	

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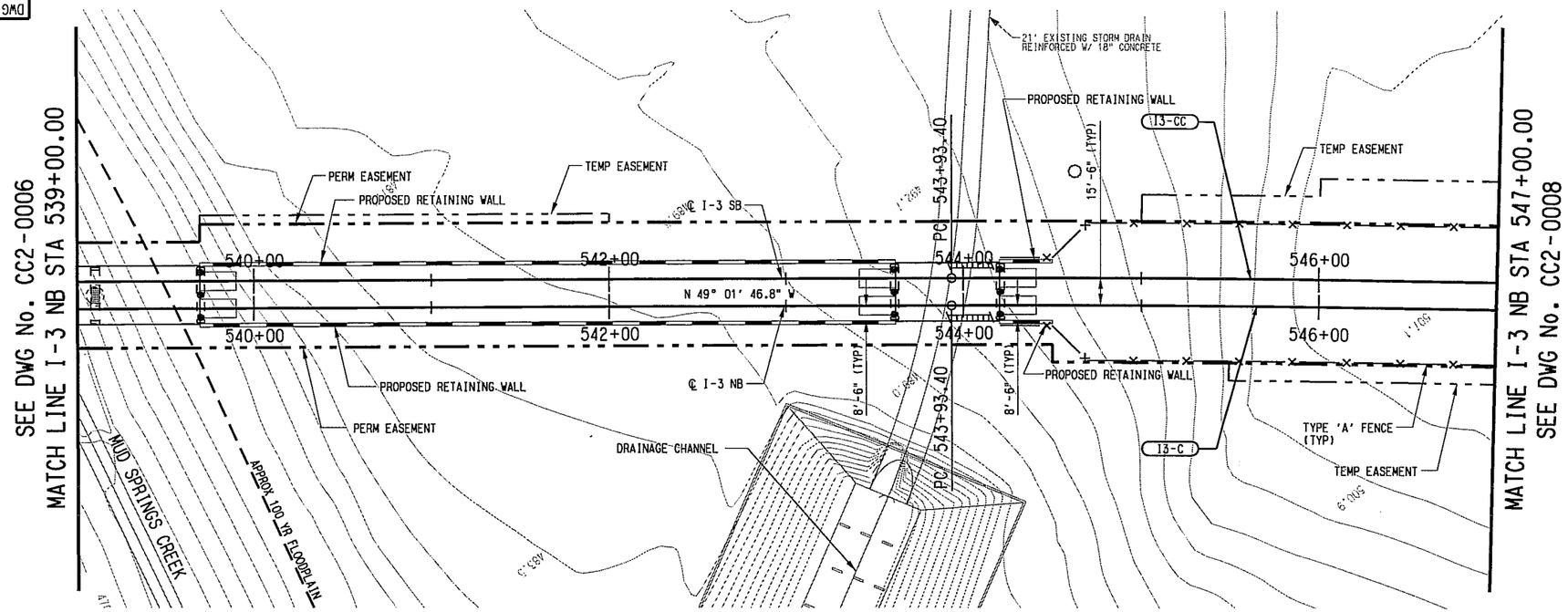
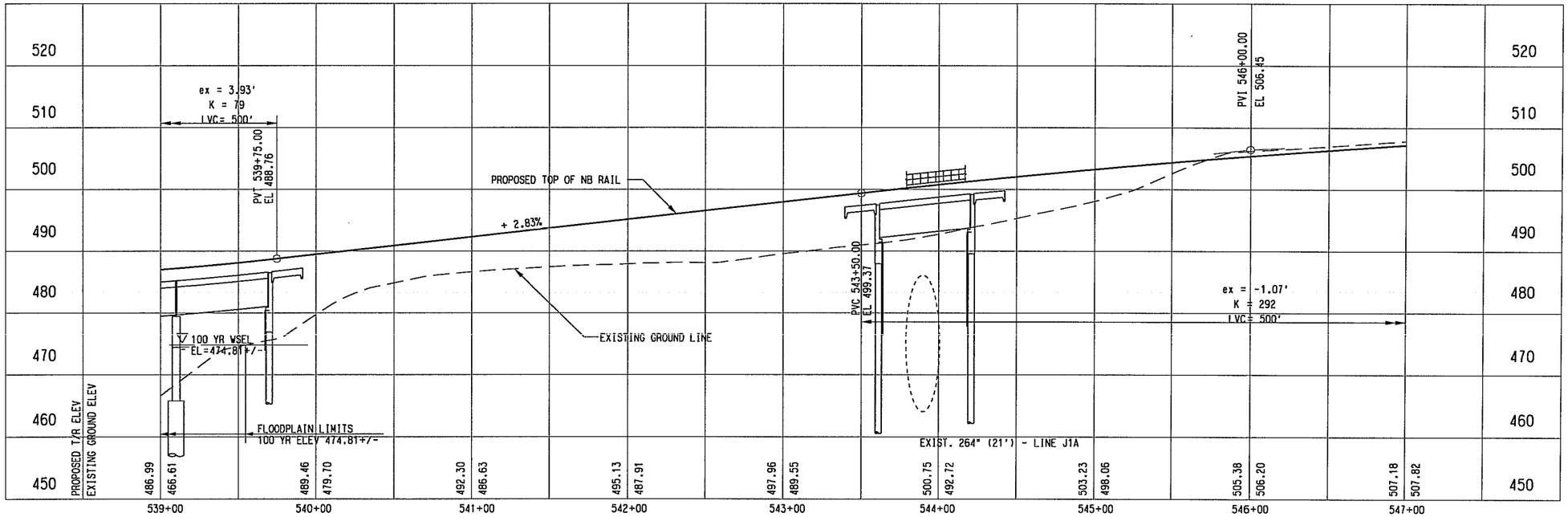
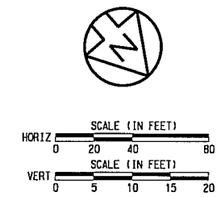
dan_king_VB
$$MODEL$$
7/14/2010







I3-C (NB)		I3-CC (SB)	
Rc=	13500.00'	Rc=	13515.50'
Ls=	0.00'	Ls=	0.00'
Lc=	3763.46'	Lc=	3767.78'
Eo=	0.00"	Eo=	0.00"
Eu=	1.25"	Eu=	1.25"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

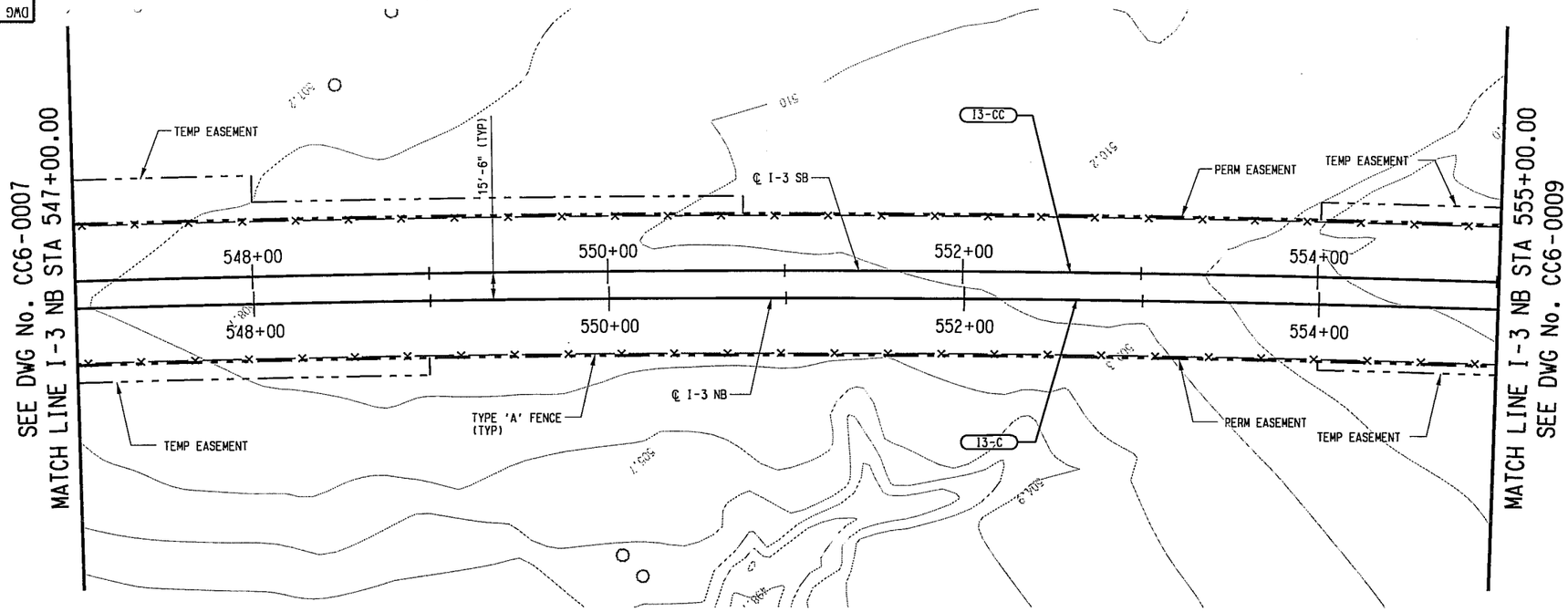
CONTRACT SHEET No. 32 OF 62

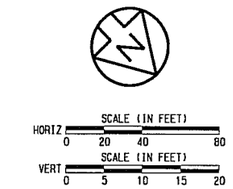
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 539+00.00 TO STA 547+00.00

CONTRACT	DWG No.	REV
	CC2-0007	

\\dm-fps04\dm_projects\25337852.00001 dart I-3\dgn\CIVIL-ALI\R3XALO7.DGN
dan_king_VB
$$MODEL$$
7/14/2010

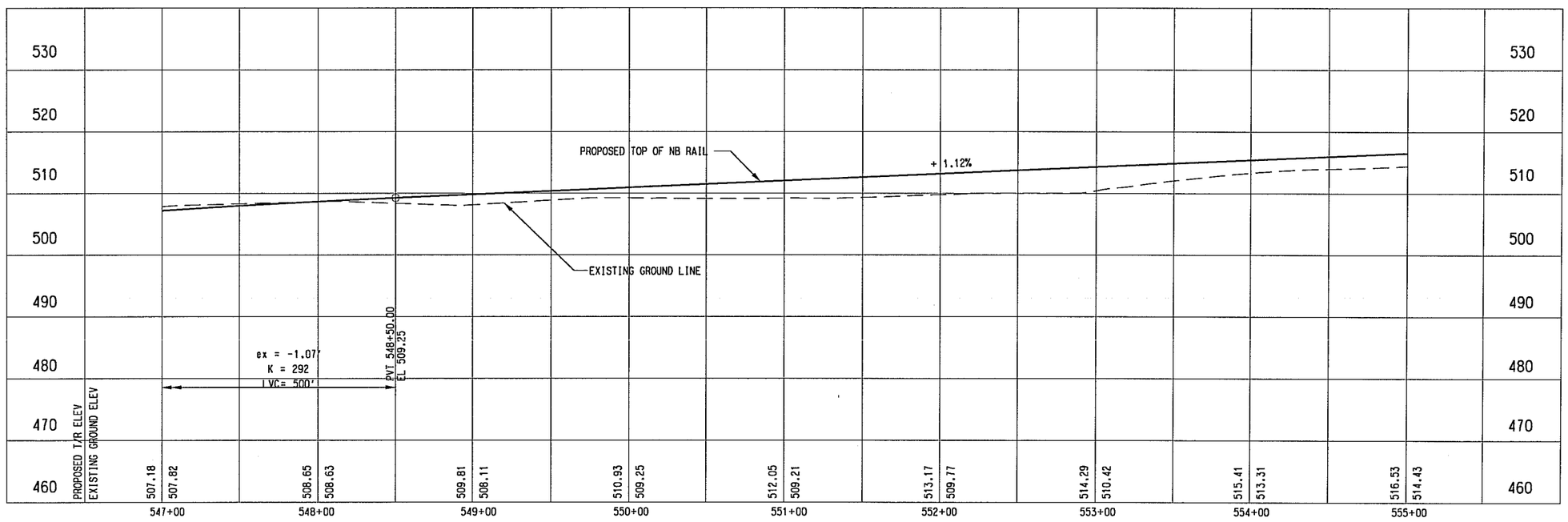




I3-C (NB)		I3-CC (SB)	
Rc=	13500.00'	Rc=	13515.50'
Ls=	0.00'	Ls=	0.00'
Lc=	3763.46'	Lc=	3767.78'
Ea=	0.00"	Ea=	0.00"
Eu=	1.25"	Eu=	1.25"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

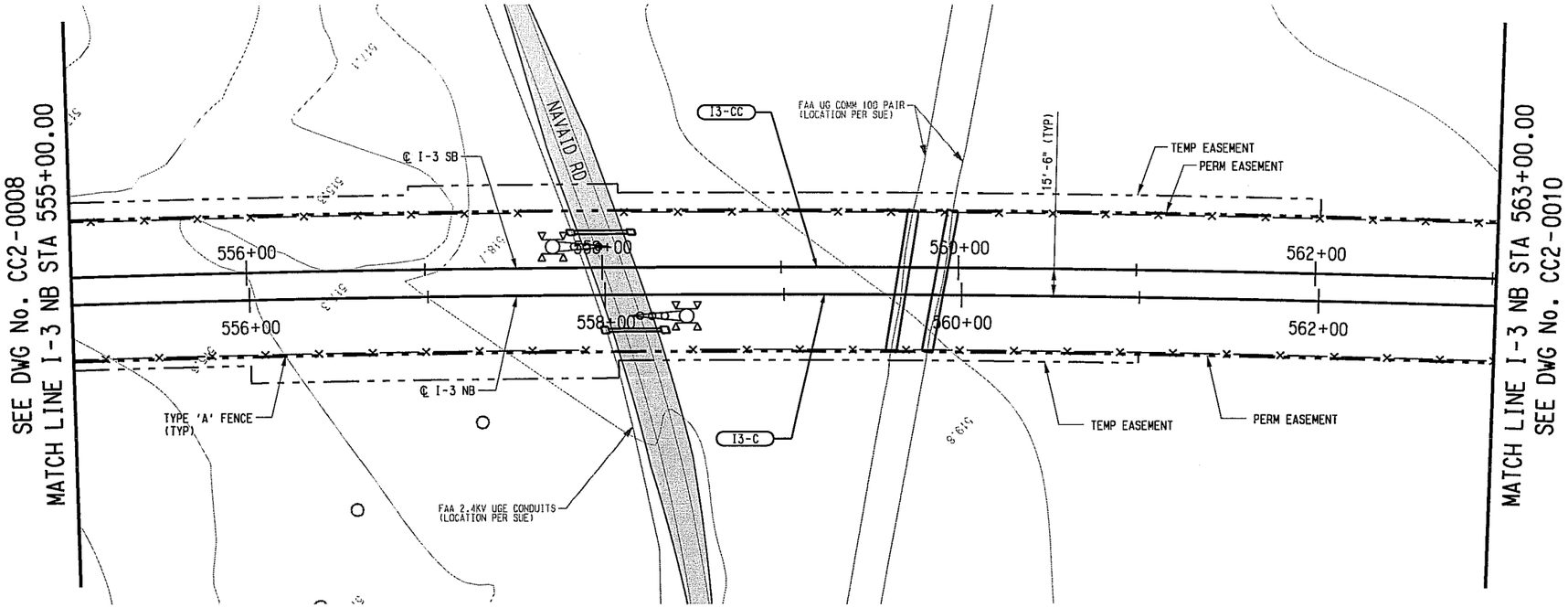
CONTRACT SHEET No. 33 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 547+00.00 TO STA 555+00.00

CONTRACT	DWG No.	REV
	CC2-0008	

\\dm-fpd4\dm_projects\2533782.00001 dgn I-3\dgn\CVL-ALI\I3XALO8.DGN
dm_kim_VB
$$MODEL$$
7/14/2010



SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

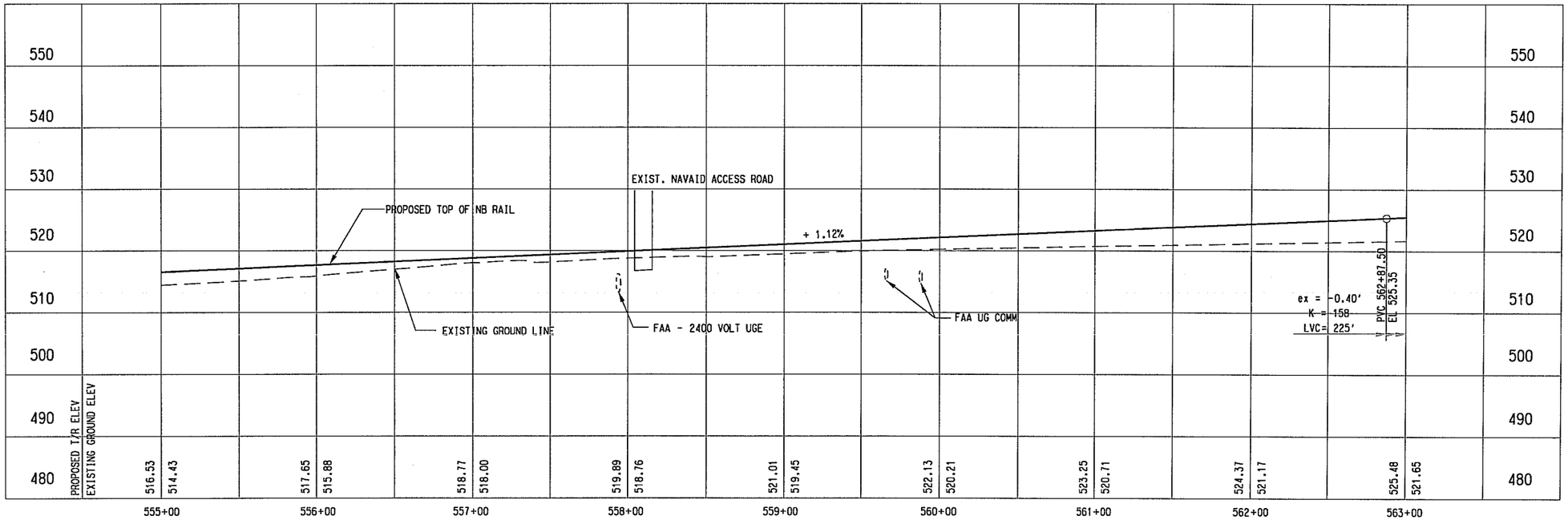
I3-C (NB)		I3-CC (SB)	
Rc=	13500.00'	Rc=	13515.50'
Ls=	0.00'	Ls=	0.00'
Lc=	3763.46'	Lc=	3767.78'
Ea=	0.00"	Ea=	0.00"
Eu=	1.25"	Eu=	1.25"
V=	65 MPH	V=	65 MPH

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AHEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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ON 07/15/2010
URS CORPORATION ID # 3162
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URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION ID #3162

DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 34 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 555+00.00 TO STA 563+00.00

CONTRACT	DWG No.	REV
	CC2-0009	

\\dm-fps04\dm_projects\2533\B2_00001 dgn I-3\dgn\CVL-ALI\R3XALG9.DGN
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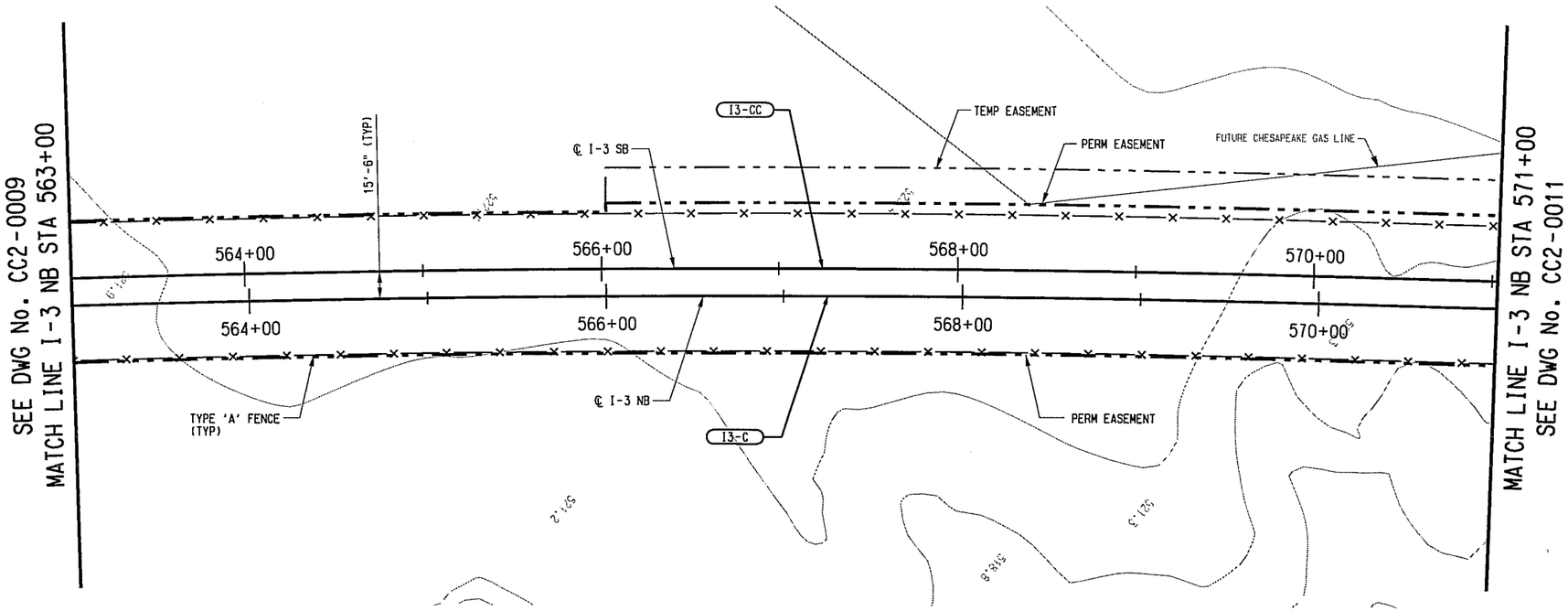
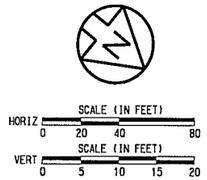
7/14/2010

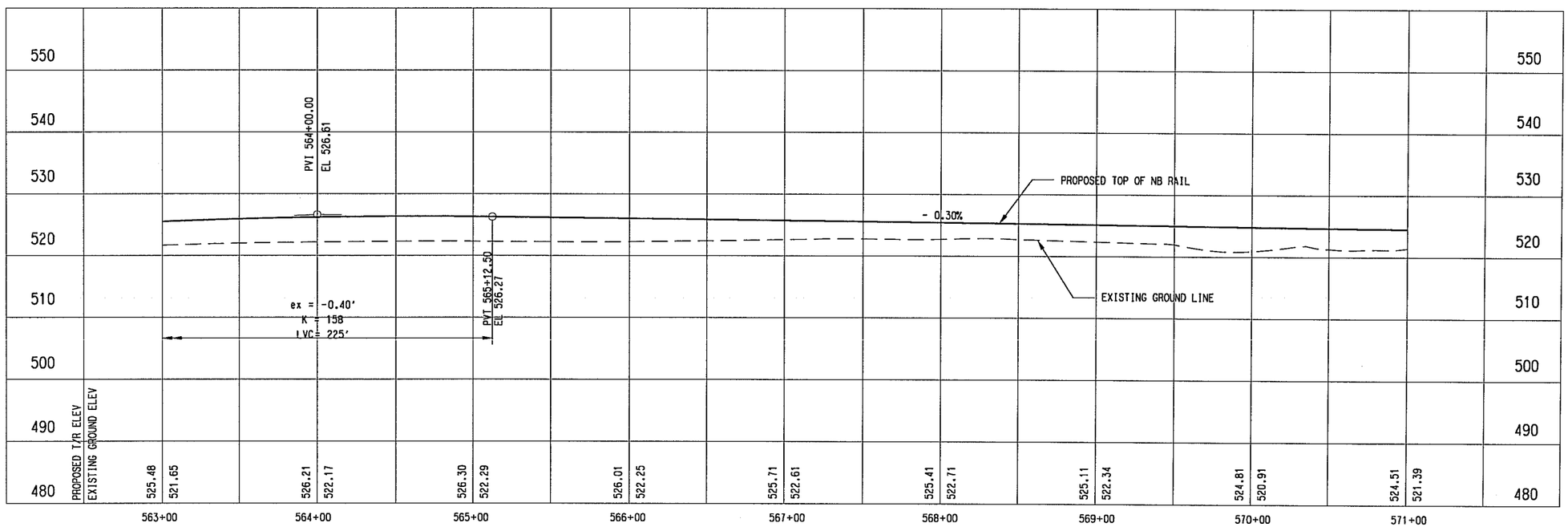




I3-C (NB)		I3-CC (SB)	
Rc=	13500.00'	Rc=	13515.50'
Ls=	0.00'	Ls=	0.00'
Lc=	3763.46'	Lc=	3767.78'
Eo=	0.00"	Eo=	0.00"
Eu=	1.25"	Eu=	1.25"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 35 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 563+00.00 TO STA 571+00.00

CONTRACT	DWG No.	REV
	CC2-0010	

\\dm-fps04\dm_projects\25337852.00001 dart I-3\dgn\CVL-ALYR3XAL10.DGN
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$$MODEL$$
7/14/2010
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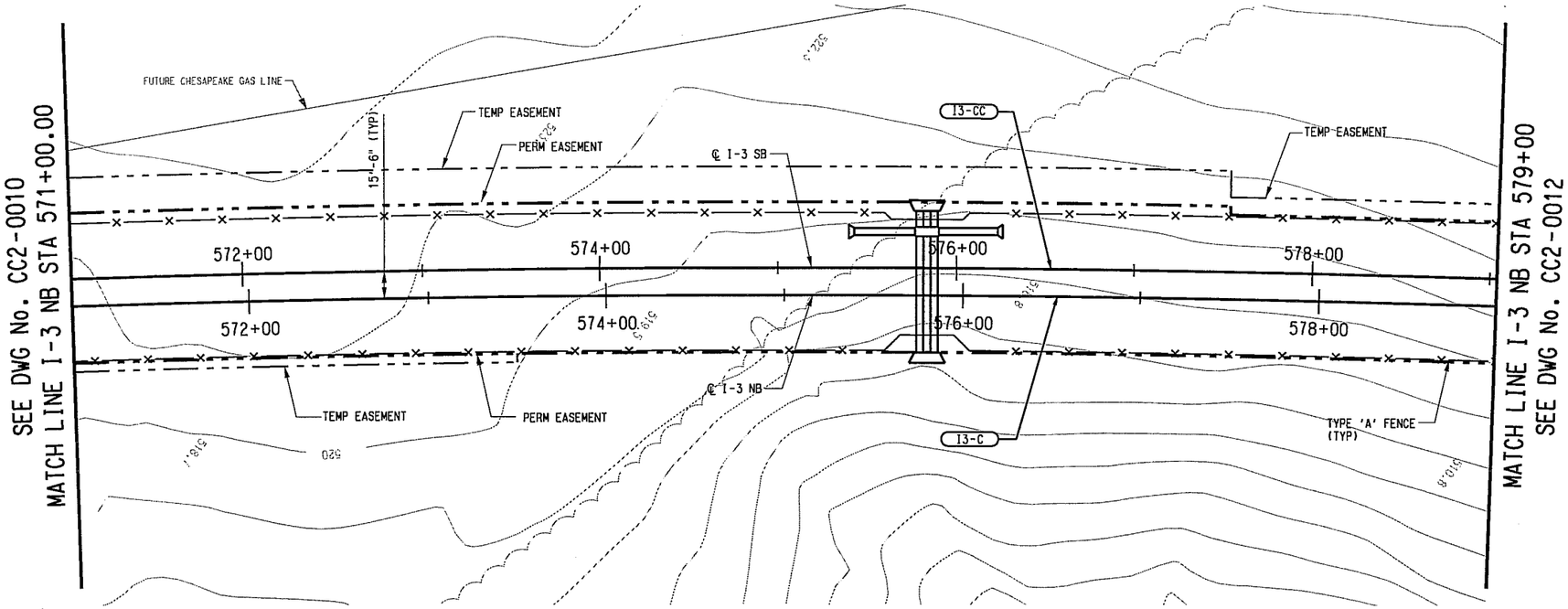
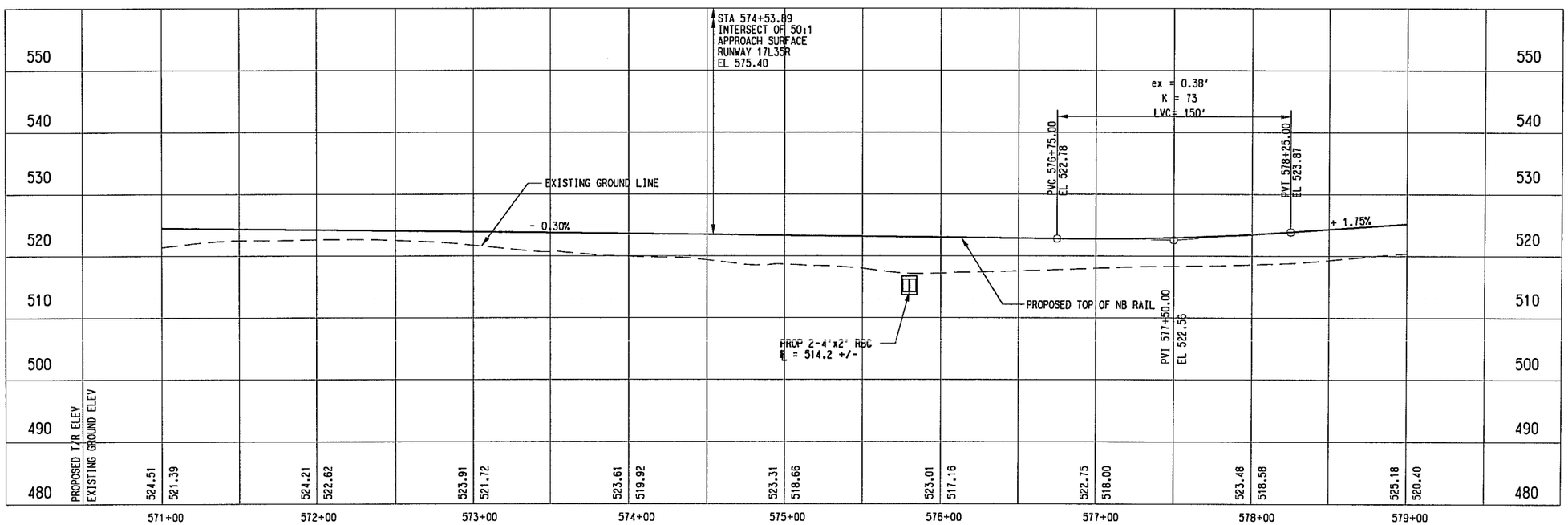


SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

I3-C (NB)		I3-CC (SB)	
Rc=	13500.00'	Rc=	13515.50'
Ls=	0.00'	Ls=	0.00'
Lc=	3763.46'	Lc=	3767.78'
Eq=	0.00"	Eq=	0.00"
Eu=	1.25"	Eu=	1.25"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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CONTRACT SHEET No. 36 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 571+00.00 TO STA 579+00.00

CONTRACT	DWG No.	REV
	CC2-0011	

\\dm-fps04\dm_projects\25337852.00001 dart I-3\dgn\CVL-AL\R3XAL11.DGN
dgn_Lib_V8
BANODELSS
7/14/2010
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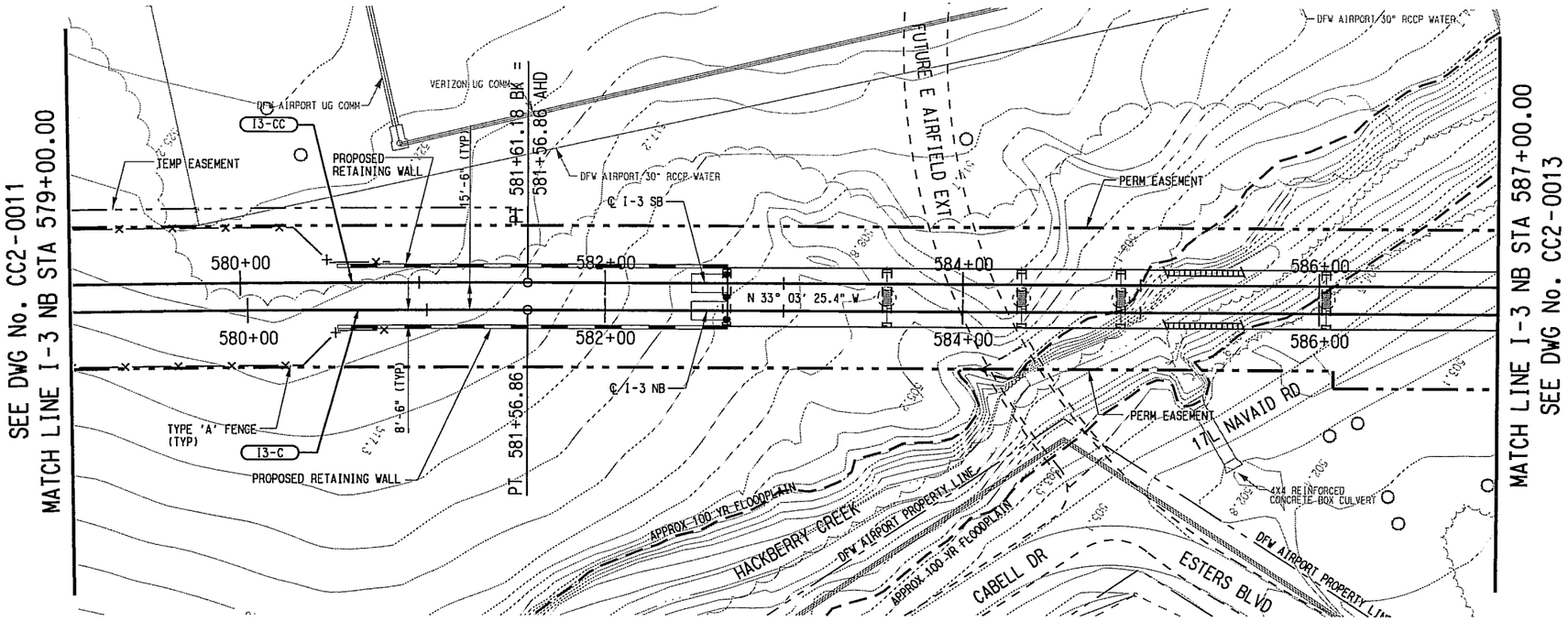
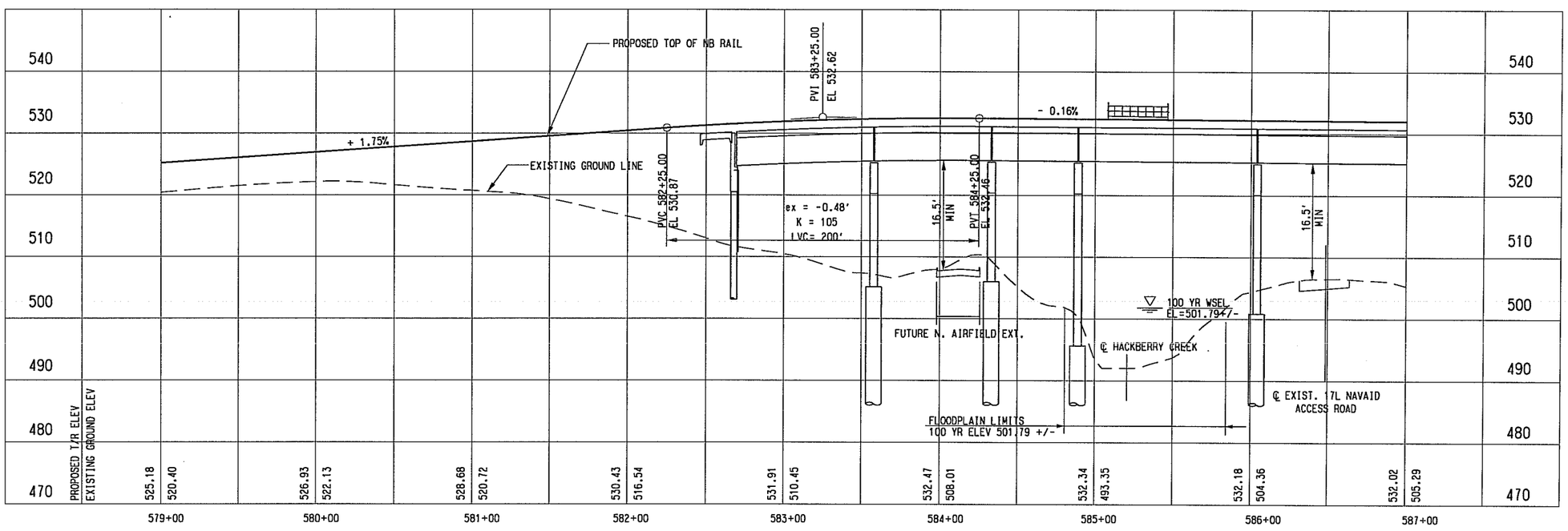
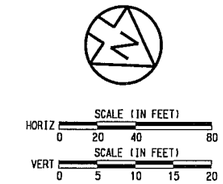
DWG No. CC2-0012

P0012







I3-C (NB)		I3-CC (SB)	
Rc=	13500.00'	Rc=	13515.50'
Ls=	0.00'	Ls=	0.00'
Lc=	3763.46'	Lc=	3767.78'
Ea=	0.00"	Ea=	0.00"
Eu=	1.25"	Eu=	1.25"
V=	65 MPH	V=	65 MPH

NOTE:

1. FINAL DESIGNER NEEDS TO COORDINATE WITH DFW AIRPORT'S DESIGN OF FUTURE AIRFIELD DRIVE EXTENSION.
2. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

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CONTRACT SHEET No. 37 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

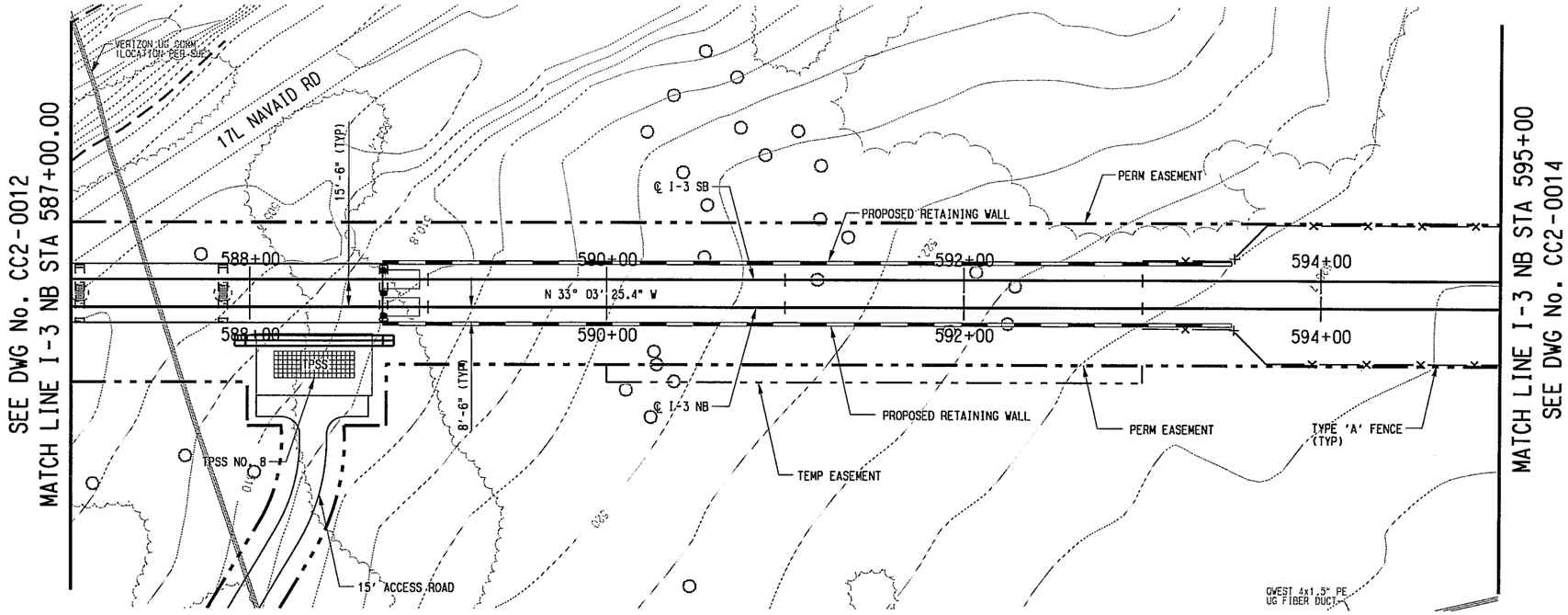
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

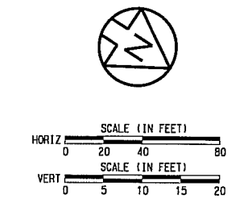
GUIDEWAY PLAN AND PROFILE
STA 579+00.00 TO STA 587+00.00

CONTRACT	DWG No.	REV
	CC2-0012	

\\dm-fps04\dm_projects\25337852.00001 dart i-3\dgn\CVL-ALIR3ALI2.DGN

dan_king_VB
$$MODEL$$
7/14/2010



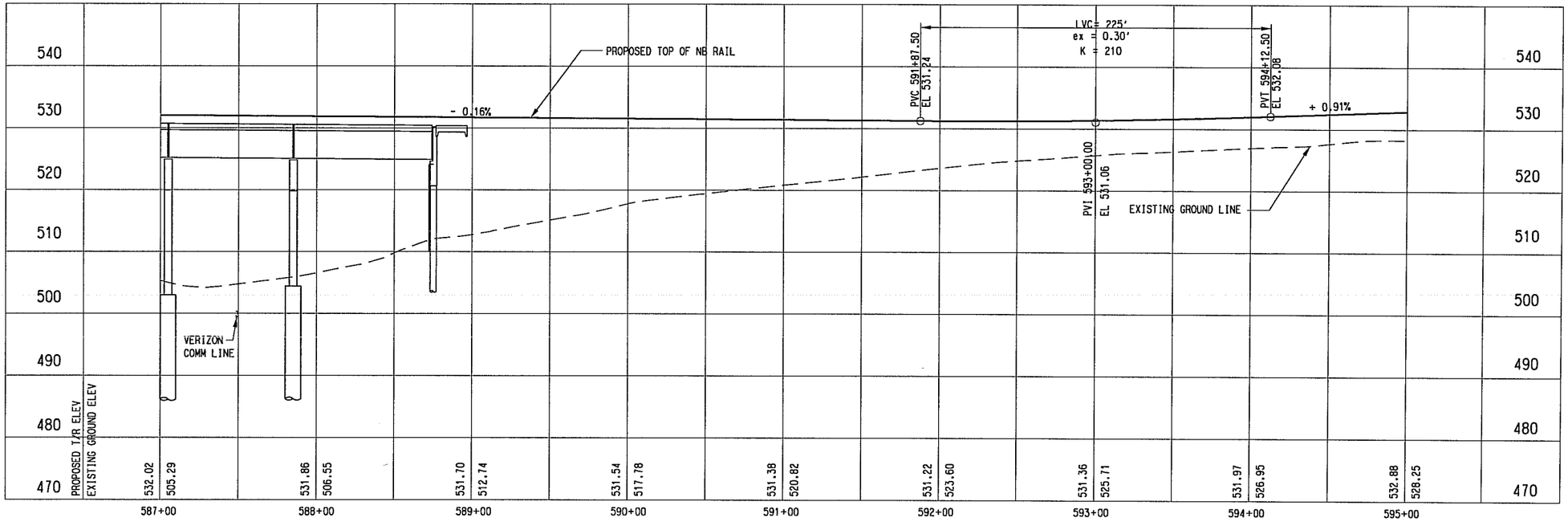


NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. PROPOSED TPSS LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL PERFORM A TRACTION POWER LOAD FLOW ANALYSIS FOR ALL PROPOSED TPSS LOCATIONS TO ENSURE ADEQUATE PLACEMENT. FINAL DESIGNER SHALL COORDINATE WITH ONCOR FOR THE POWER FEEDS TO THE TPSS LOCATIONS. FINAL DESIGNER WILL NEED TO COORDINATE THE POWER FEED DESIGN WITH DFW AIRPORT.
3. SUBSTATION SITE SHALL ACCOMMODATE TRACTION POWER SUBSTATION, SPDC, AND COMMUNICATION BUNGALOW.
4. FINAL DESIGNER SHALL CONSIDER FIRE APPARATUS REQUIREMENTS WHEN DESIGNING ACCESS ROADS. COORDINATION WITH DFW AIRPORT FIRE DEPARTMENT SHALL CONTINUE THROUGH FINAL DESIGN.

LEGEND

GRADING FOR SYSTEMS ELEMENTS, TPSS, AND OTHER SYSTEMS ELEMENTS



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SKILEY
DATE	15 JUL 10

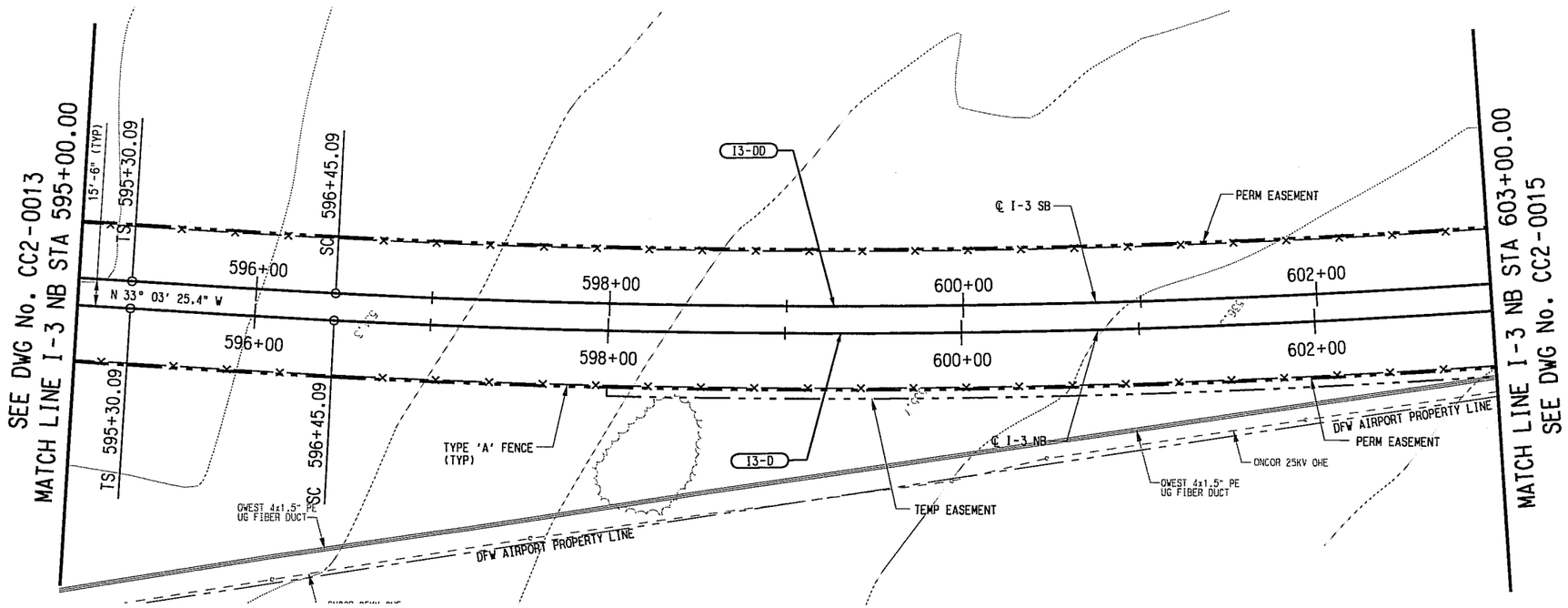
CONTRACT SHEET No. 38 OF 62

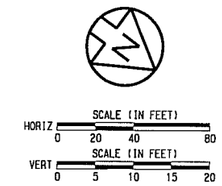
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 587+00.00 TO STA 595+00.00

CONTRACT	DWG No.	REV
	CC2-0013	

\\dm-fpdc\dm_projects\25337852.00001 dgn\I-3\dgn\CVL-ALI\R3ALI3.DGN
dan_king_VB
$$MODEL$$
7/14/2010

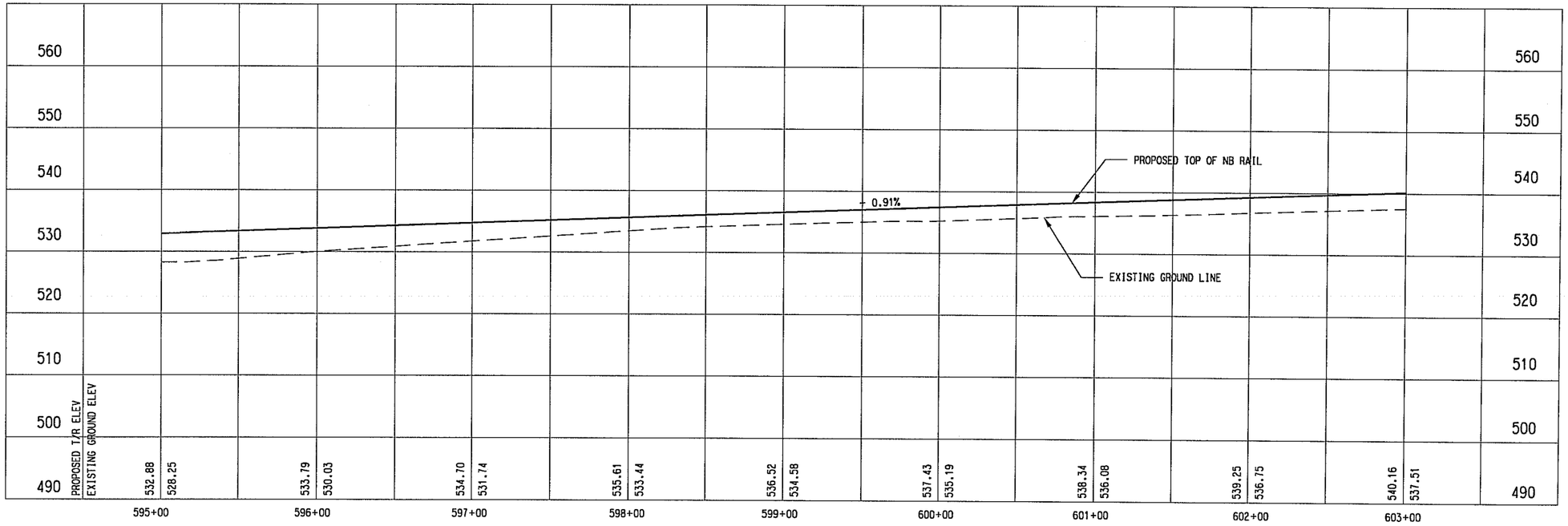




I3-D (NB)		I3-DD (SB)	
Rc=	5215.50'	Rc=	5200.00'
Ls=	115.00'	Ls=	115.00'
Lc=	1036.01'	Lc=	1032.59'
Eo=	1.75"	Eo=	1.75"
Eu=	1.49"	Eu=	1.50"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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

DART PROJECT

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

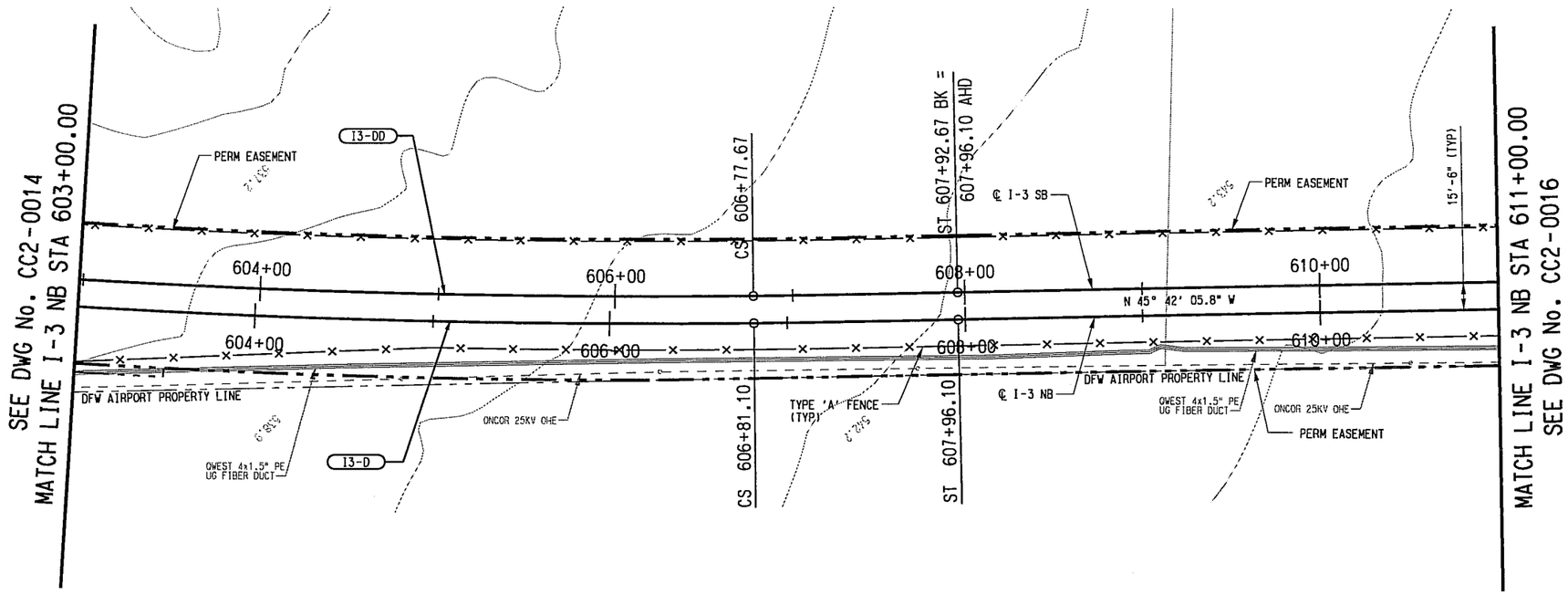
CONTRACT SHEET No. 39 OF 62

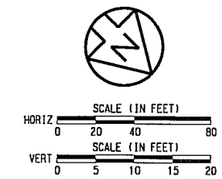
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 595+00.00 TO STA 603+00.00

CONTRACT	DWG No.	REV
	CC2-0014	

\\dm-fps04\dm_projects\25337852.00001 dart i-3\dgn\CIL-AL\FR33AL14.DWG
don_king_VB
$$NODES$$
7/14/2010

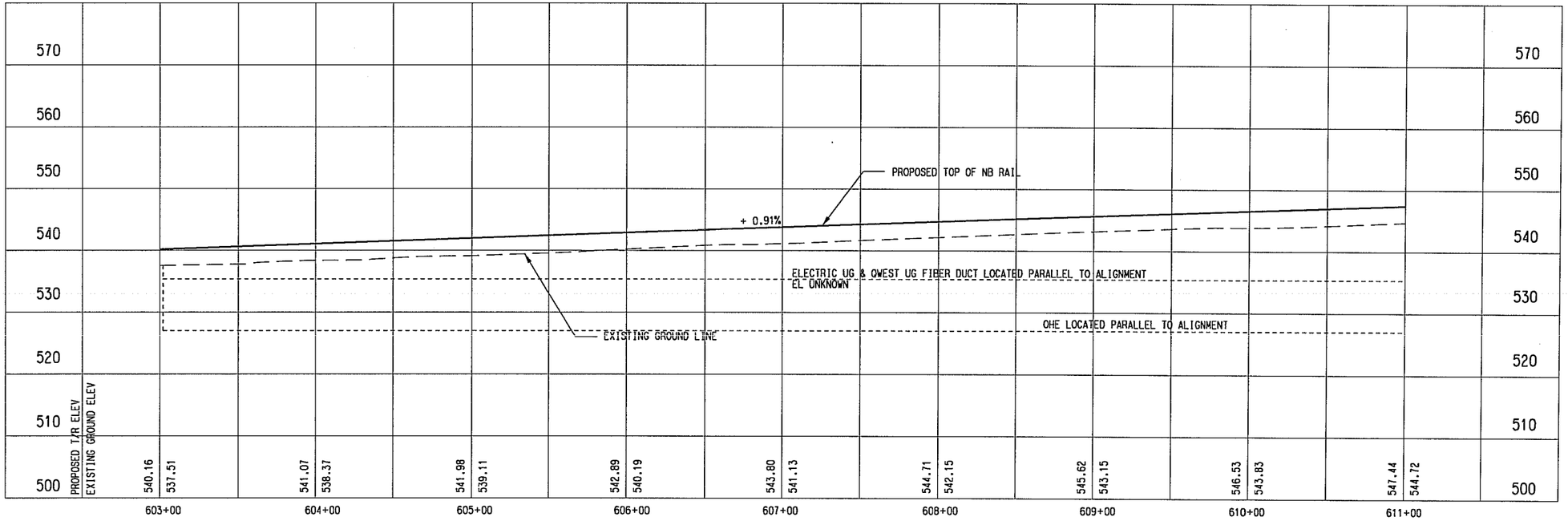




I3-D (NB)		I3-DD (SB)	
Rc=	5215.50'	Rc=	5200.00'
Ls=	115.00'	Ls=	115.00'
Lc=	1036.01'	Lc=	1032.59'
Eq=	1.75"	Eq=	1.75"
Eu=	1.49"	Eu=	1.50"
V=	65 MPH	V=	65 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 40 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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

DART PROJECT

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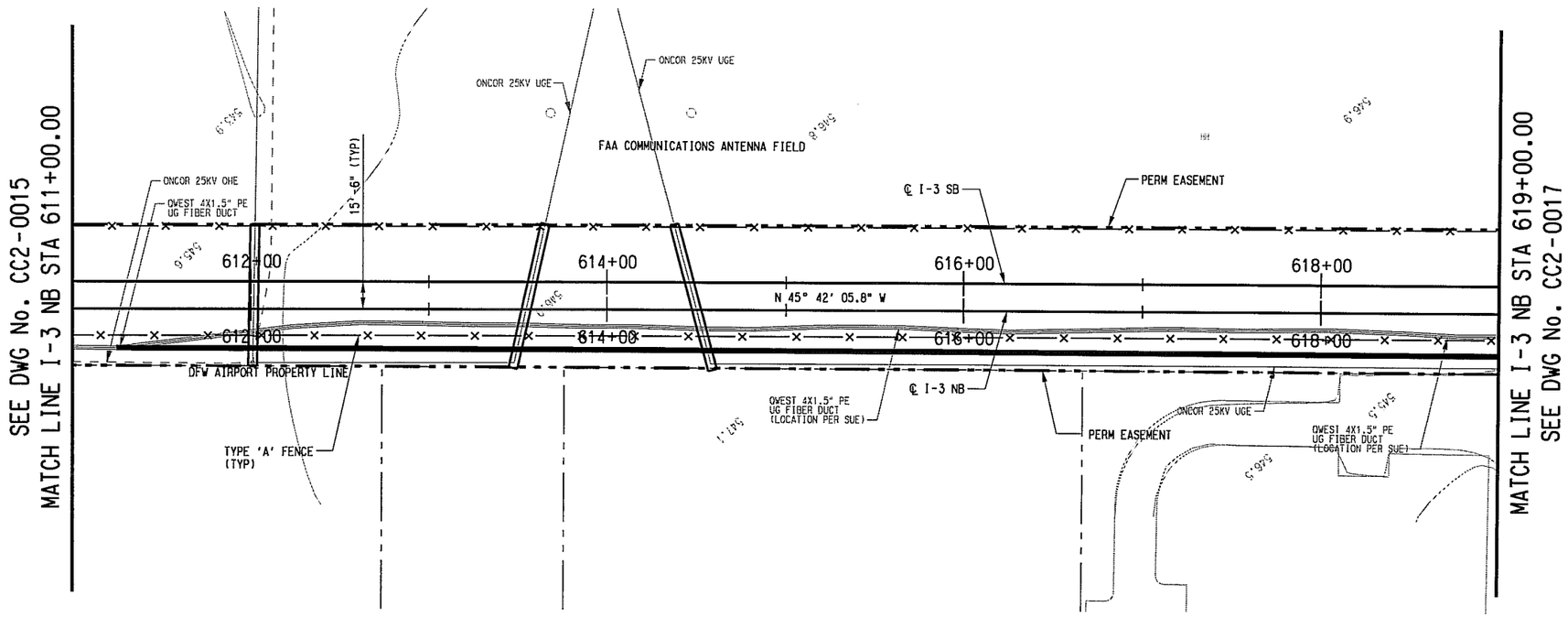
SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

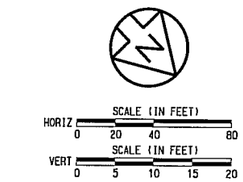
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 603+00.00 TO STA 611+00.00

CONTRACT | DWG No. CC2-0015 | REV

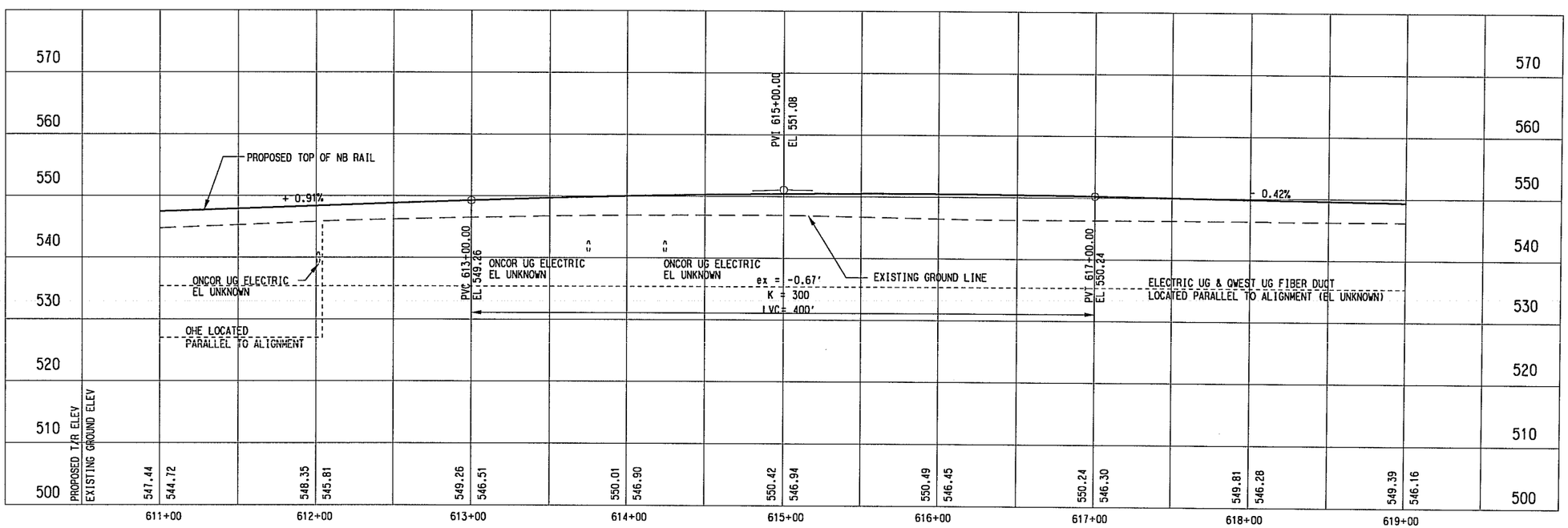
\\dm-fps01\dm_projects\25337892.00001 dart I-3\dgn\CVL-ALI\R3ALI5.DGN
dan_king_VB
$$MODEL$$
7/14/2010





NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 41 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 611+00.00 TO STA 619+00.00

CONTRACT	DWG No.	REV
	CC2-0016	

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dgn_Lib_V8
$$MODEL$$
7/14/2010
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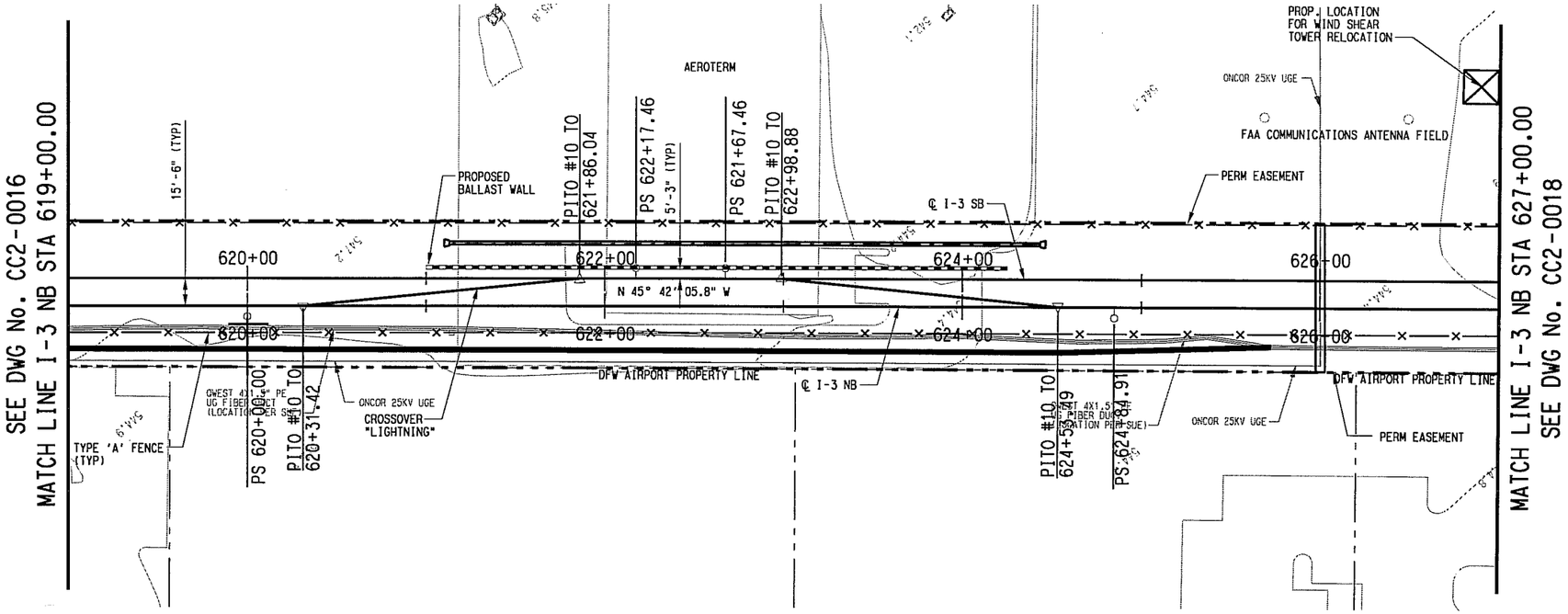

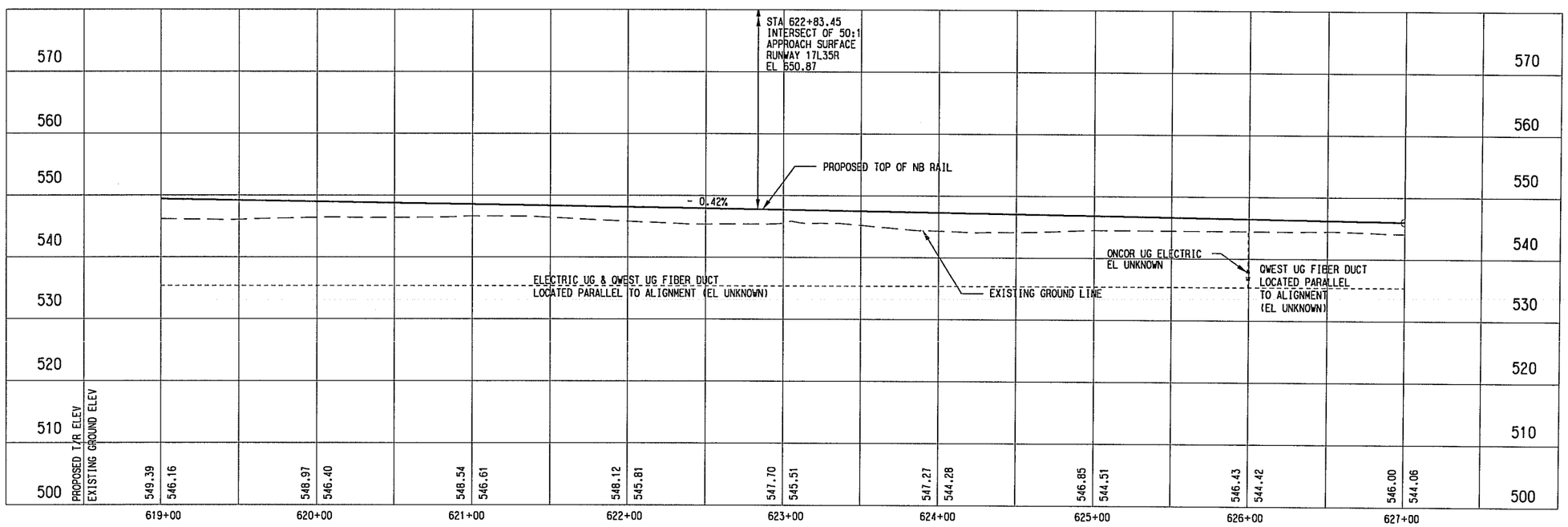

SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

NOTES:

1. PROPOSED CROSSOVER LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL COORDINATE FINAL LOCATION WITH DART SYSTEMS ENGINEERING & INTEGRATION DEPARTMENT.
2. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
3. FINAL DESIGNER SHALL COORDINATE FINAL LOCATION FOR WIND SHEAR TOWER WITH FAA AND DFW AIRPORT.

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 42 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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

DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 619+00.00 TO STA 627+00.00

CONTRACT | DWG No. CC2-0017 | REV

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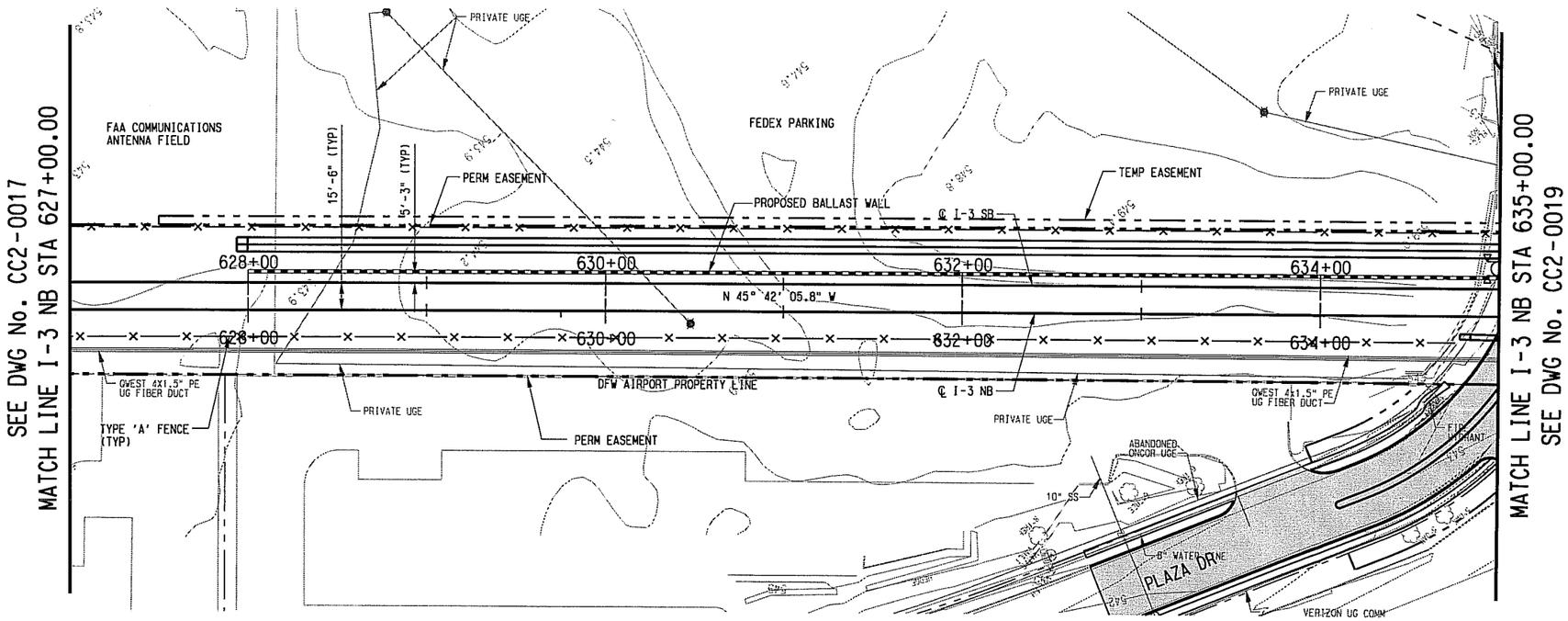
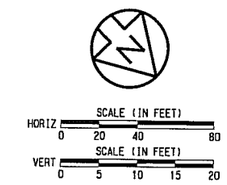
dan_king_VG
$$MODELS$
7/14/2010



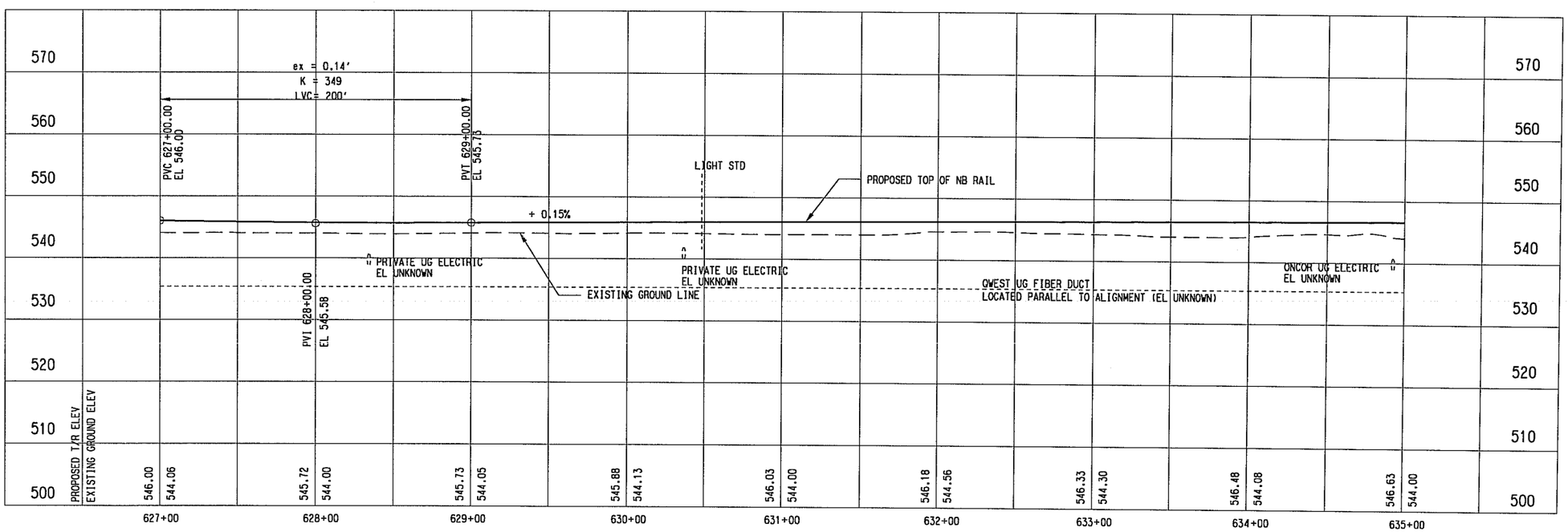


NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 43 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 627+00.00 TO STA 635+00.00

CONTRACT	DWG No.	REV
	CC2-0018	

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dan_king_VB
$$MODEL$$
7/14/2010
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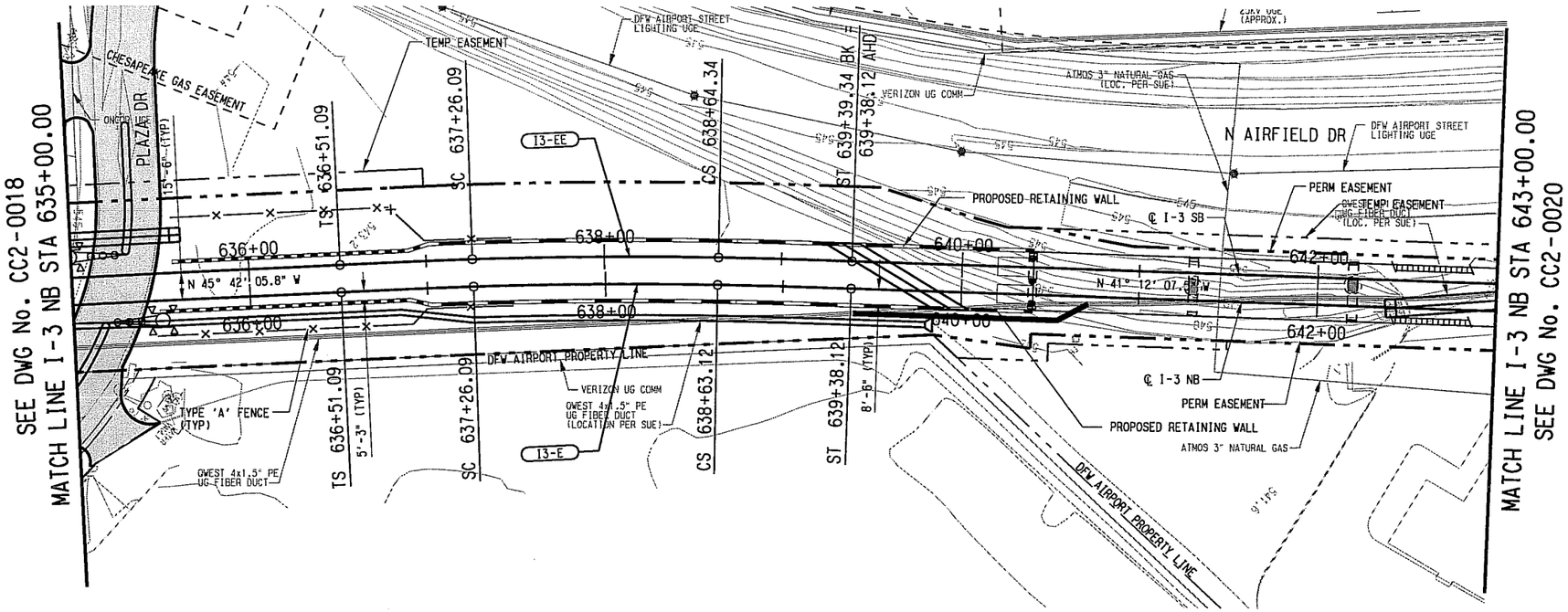
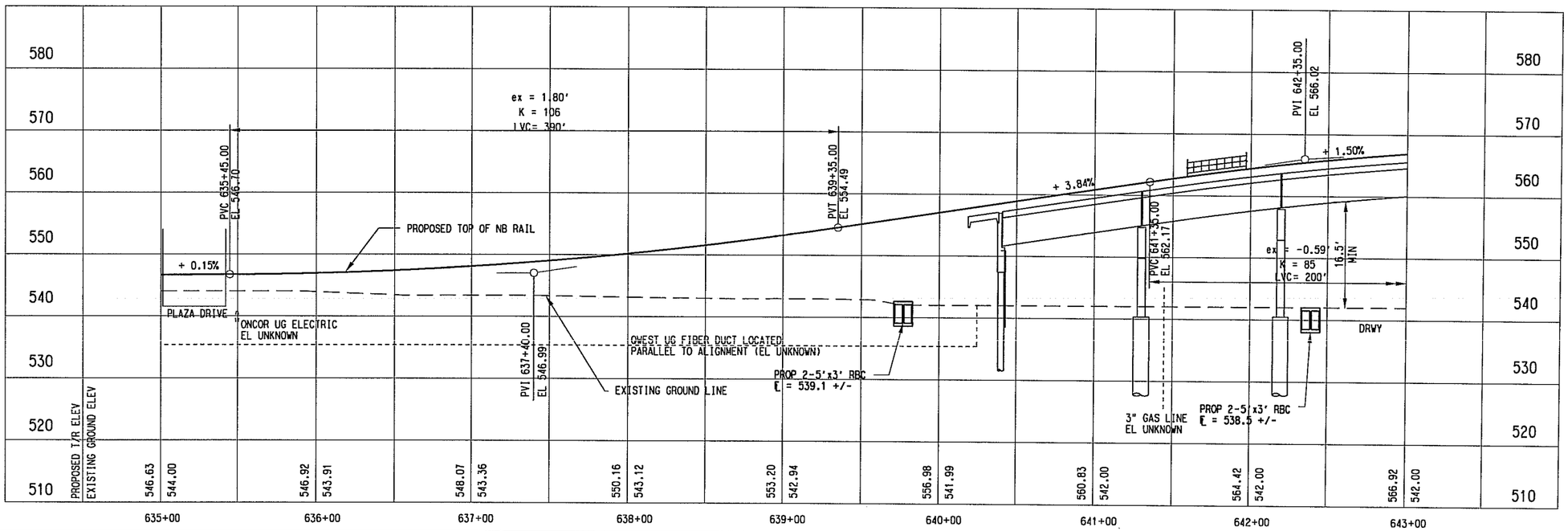
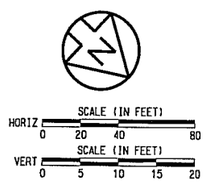
DWG No. CC2-0019

P0019







I3-E (NB)		I3-EE (SB)	
Rc=	2700.00'	Rc=	2715.50'
Ls=	75.00'	Ls=	75.00'
Lc=	137.04'	Lc=	138.25'
Ea=	1.50"	Ea=	1.50"
Eu=	1.50"	Eu=	1.48"
V=	45 MPH	V=	45 MPH

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SHILEY
DATE	15 JUL 10

CONTRACT SHEET No. 44 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 635+00.00 TO STA 643+00.00

CONTRACT | DWG No. CC2-0019 | REV

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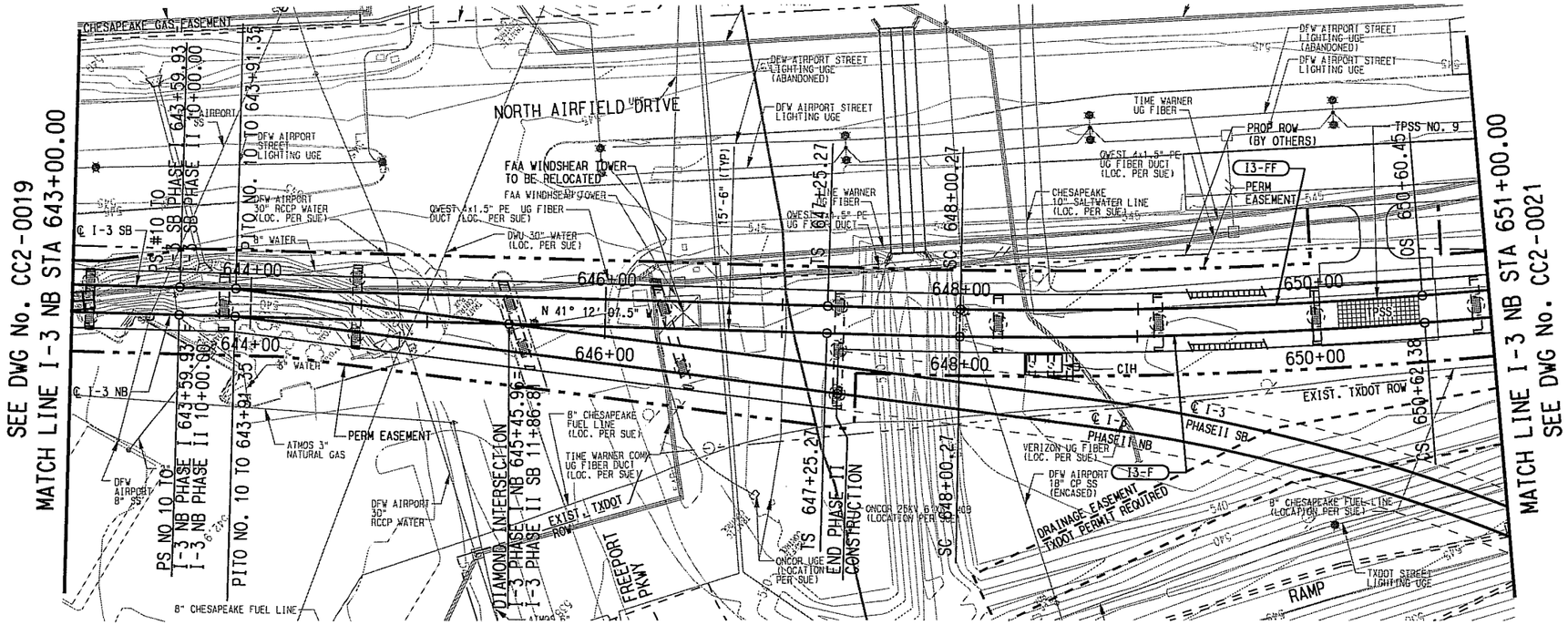
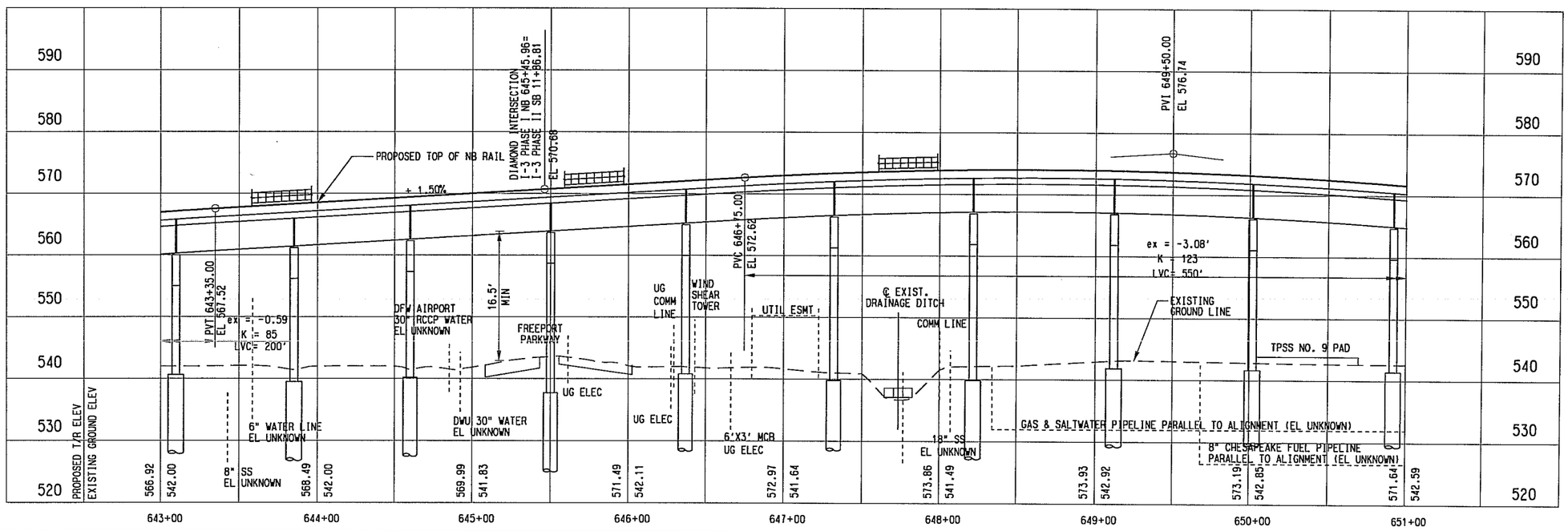
dan_king_V8
$$MODEL$$
7/14/2010





SCALE (IN FEET)
HORIZ 0 20 40 80
VERT 0 5 10 15 20

I3-F (NB)		I3-FF (SB)	
Rc=	2715.50'	Rc=	2700.00'
Ls=	75.00'	Ls=	75.00'
Lc=	262.10'	Lc=	260.18'
Eq=	1.50"	Eq=	1.50"
Eu=	1.48"	Eu=	1.50"
V=	45 MPH	V=	45 MPH

LEGEND

GRADING FOR SYSTEMS ELEMENTS, TPSS, AND OTHER SYSTEMS ELEMENTS

NOTE:

1. FINAL DESIGNER SHALL COORDINATE WITH TXDOT'S DESIGN OF SH114 & DFW AIRPORT'S DESIGN OF THE NORTHEAST PERIMETER TAXIWAY & NORTH AIRFIELD DRIVE.
2. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT & FAA FOR THE WINDSHEAR TOWER RELOCATION. ACCESS TO TOWER WILL NEED TO REMAIN.
3. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.
4. THE PHASE I TO PHASE II INTERFACE SHALL BE CONSTRUCTED AS PART OF THE PHASE I CONSTRUCTION. THE EXACT LIMITS OF THE PHASE II CONSTRUCTION SHALL BE DETERMINED DURING FINAL DESIGN.
5. PROPOSED TPSS LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL PERFORM A TRACTION POWER LOAD FLOW ANALYSIS FOR ALL PROPOSED TPSS LOCATIONS TO ENSURE ADEQUATE PLACEMENT. FINAL DESIGNER SHALL COORDINATE WITH ONCOR FOR THE POWER FEEDS TO THE TPSS LOCATIONS. FINAL DESIGNER WILL NEED TO COORDINATE THE POWER FEED DESIGN WITH DFW AIRPORT.
6. SUBSTATION SITE SHALL ACCOMMODATE TRACTION POWER SUBSTATION, SPDC, AND COMMUNICATION BUNGALOW.
7. FINAL DESIGNER SHALL CONSIDER FIRE APPARATUS REQUIREMENTS WHEN DESIGNING ACCESS ROADS. COORDINATION WITH DFW AIRPORT FIRE DEPARTMENT SHALL CONTINUE THROUGH FINAL DESIGN.

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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 45 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 643+00.00 TO STA 651+00.00

CONTRACT | DWG No. CC2-0020 | REV

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dan_king_VB
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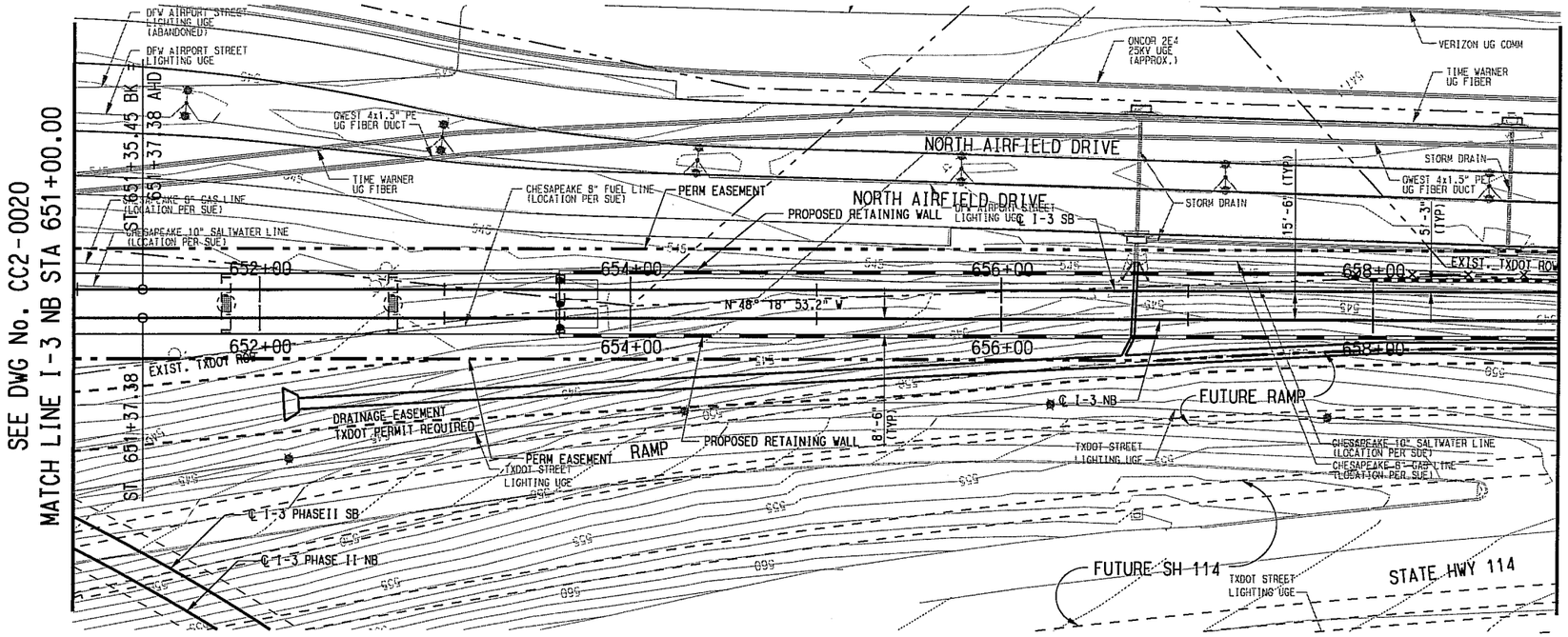
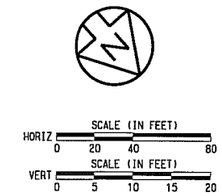
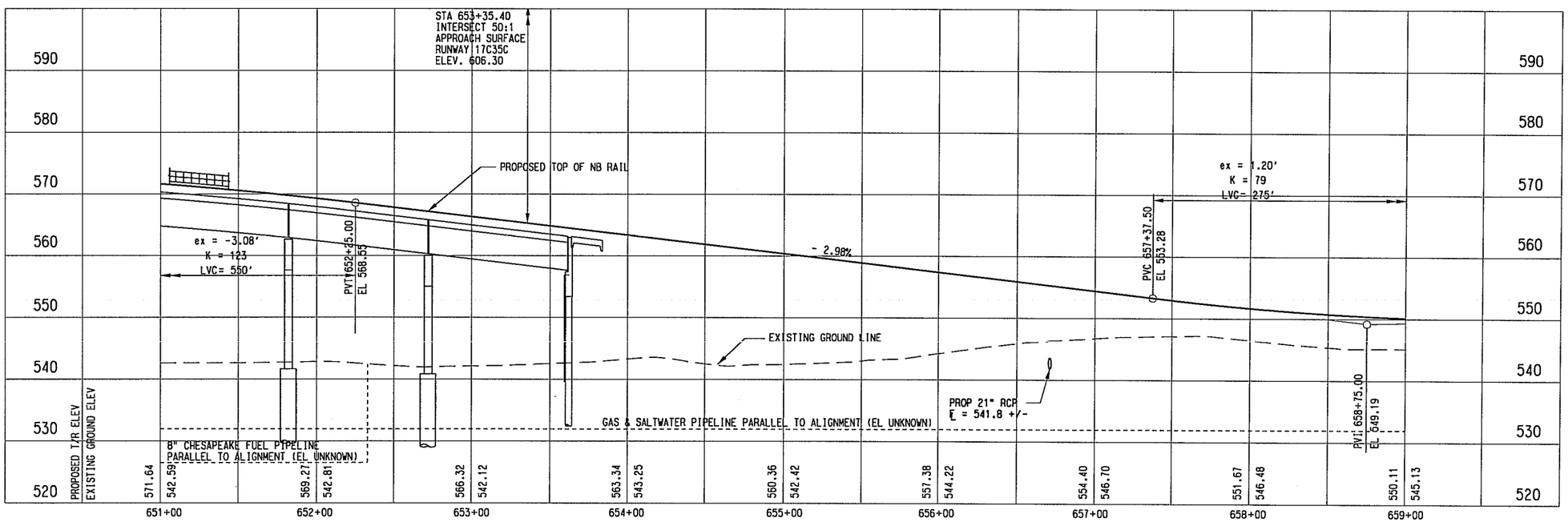
7/14/2010





NOTE:

1. FINAL DESIGNER SHALL COORDINATE WITH TXDOT'S DESIGN OF SH114 & DFW AIRPORT'S DESIGN OF THE NORTHEAST PERIMETER TAXIWAY & NORTH AIRFIELD DRIVE.
2. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.



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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SNILEY
DATE	15 JUL 10

CONTRACT SHEET No. 46 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 651+00.00 TO STA 659+00.00

CONTRACT	DWG No.	REV
	CC2-0021	

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dan_king_VB
$$MODEL$$
7/14/2010
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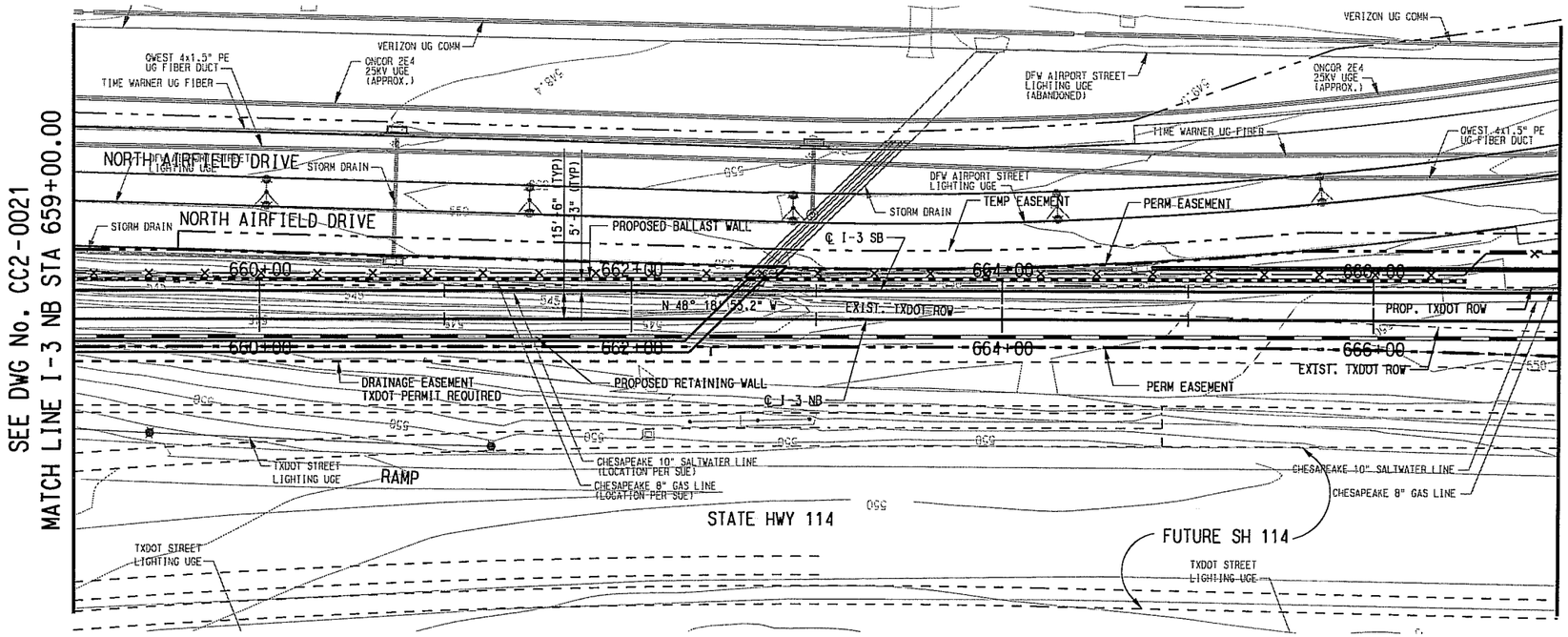
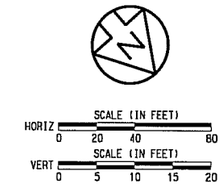
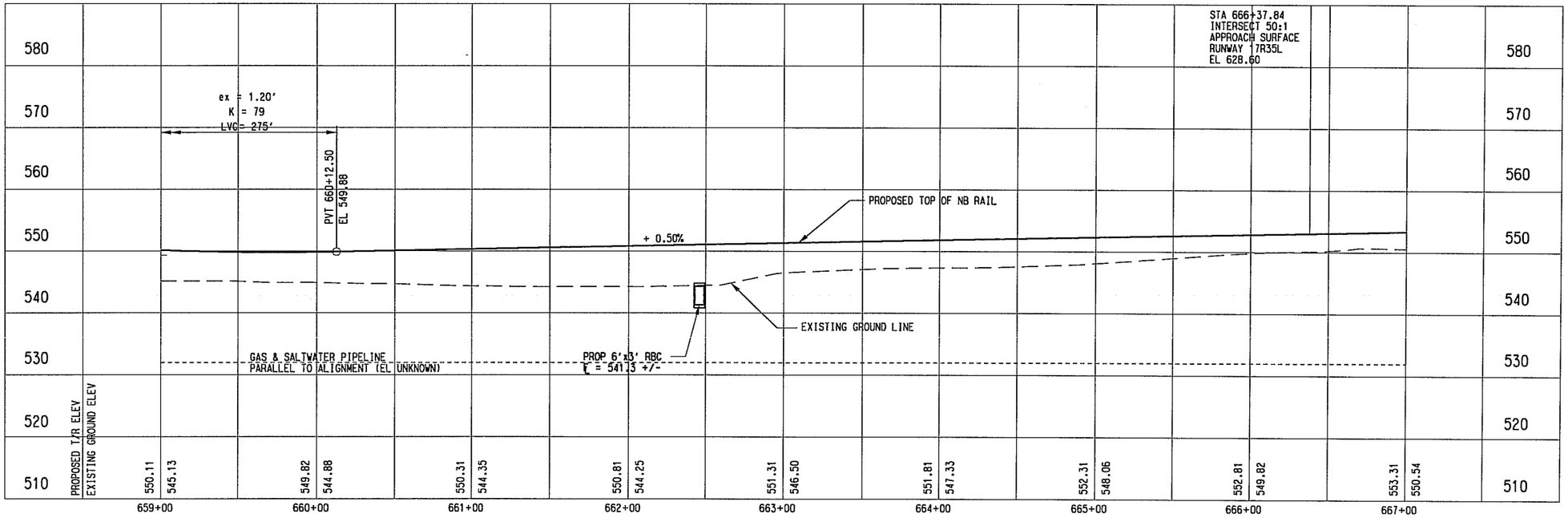




NOTES:

1. FINAL DESIGNER SHALL COORDINATE WITH TXDOT'S DESIGN OF SH114 & DFW AIRPORT'S DESIGN OF THE NORTHEAST PERIMETER TAXIWAY & NORTH AIRFIELD DRIVE.
2. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.



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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 47 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 659+00.00 TO STA 667+00.00

CONTRACT | DWG No. CC2-0022 | REV

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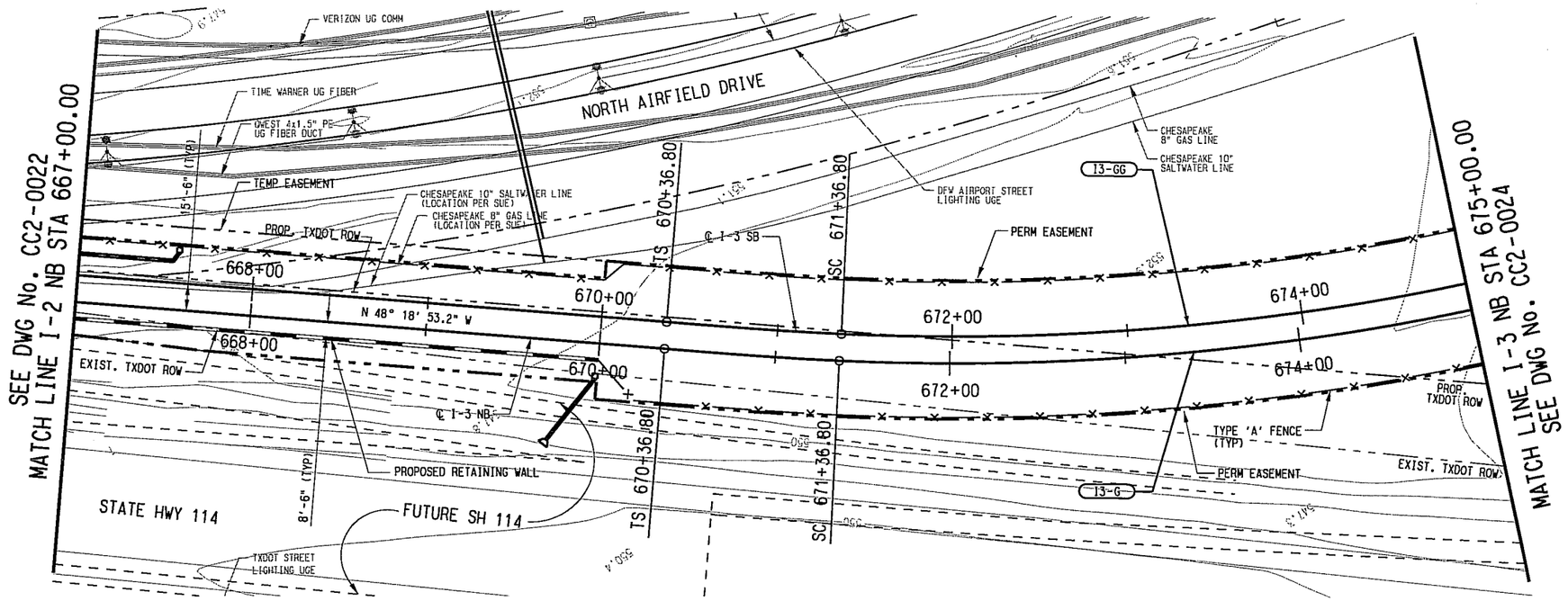
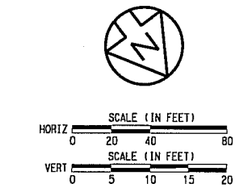
7/14/2010

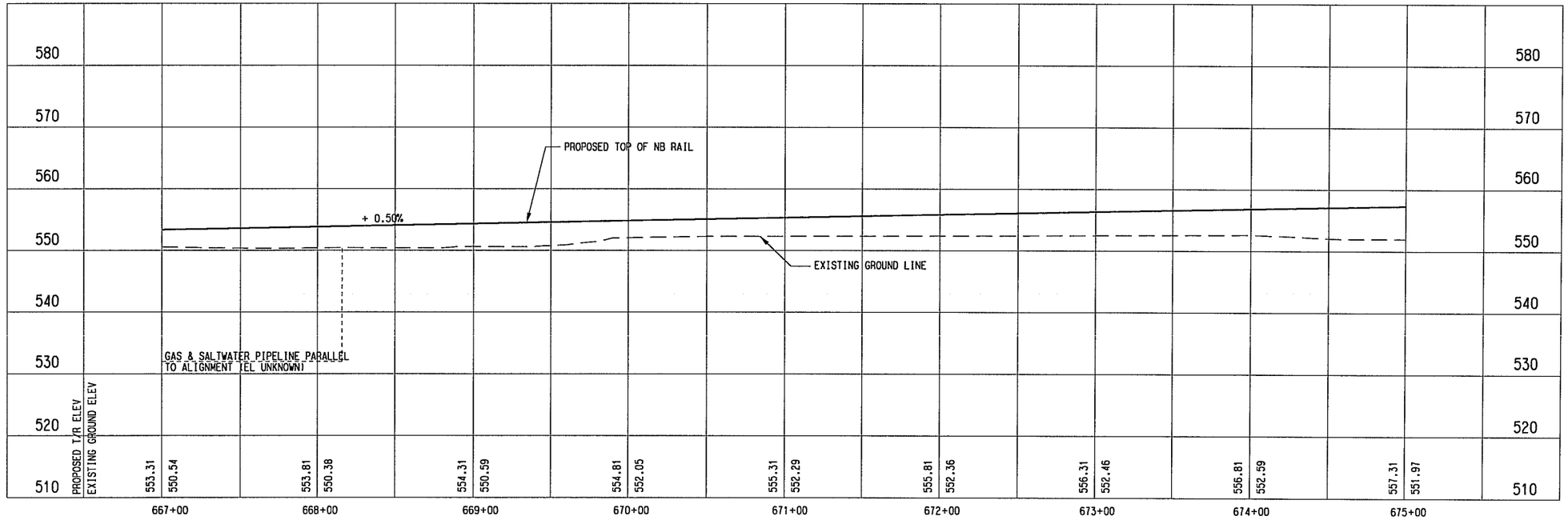




I3-G (NB)		I3-GG (SB)	
Rc=	1415.50'	Rc=	1400.00'
Ls=	100.00'	Ls=	100.00'
Lc=	1473.19'	Lc=	1455.96'
Eq=	2.00"	Eq=	2.00"
Eu=	1.46"	Eu=	1.46"
V=	35 MPH	V=	35 MPH

NOTES:

1. FINAL DESIGNER SHALL COORDINATE WITH TXDOT'S DESIGN OF SH114 & DFW AIRPORT'S DESIGN OF THE NORTHEAST PERIMETER TAXIWAY & NORTH AIRFIELD DRIVE.
2. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 48 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 667+00.00 TO STA 675+00.00

CONTRACT	DWG No.	REV
	CC2-0023	

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7/14/2010
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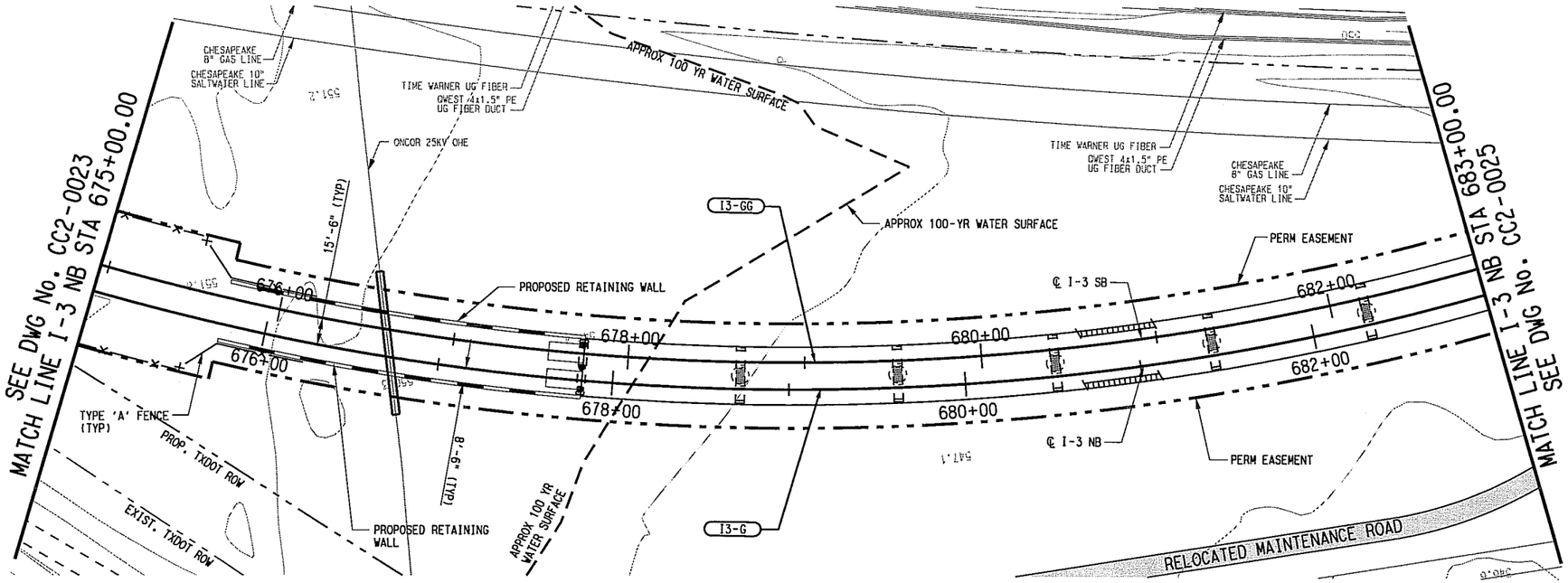
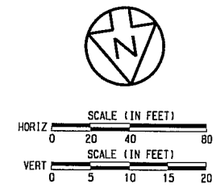




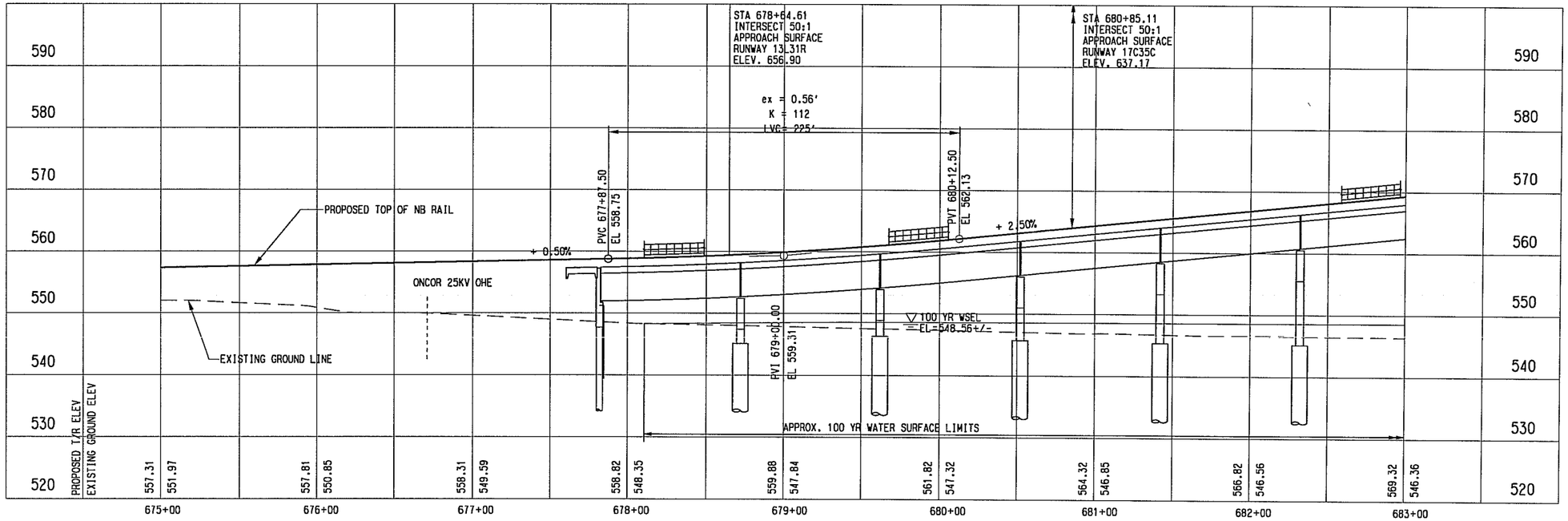
I3-G (NB)		I3-GG (SB)	
Rc=	1415.50'	Rc=	1400.00'
Ls=	100.00'	Ls=	100.00'
Lc=	1473.19'	Lc=	1455.96'
Ea=	2.00"	Ea=	2.00"
Eu=	1.46"	Eu=	1.46"
V=	35 MPH	V=	35 MPH

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 49 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 675+00.00 TO STA 683+00.00

CONTRACT	DWG No.	REV
	CC2-0024	

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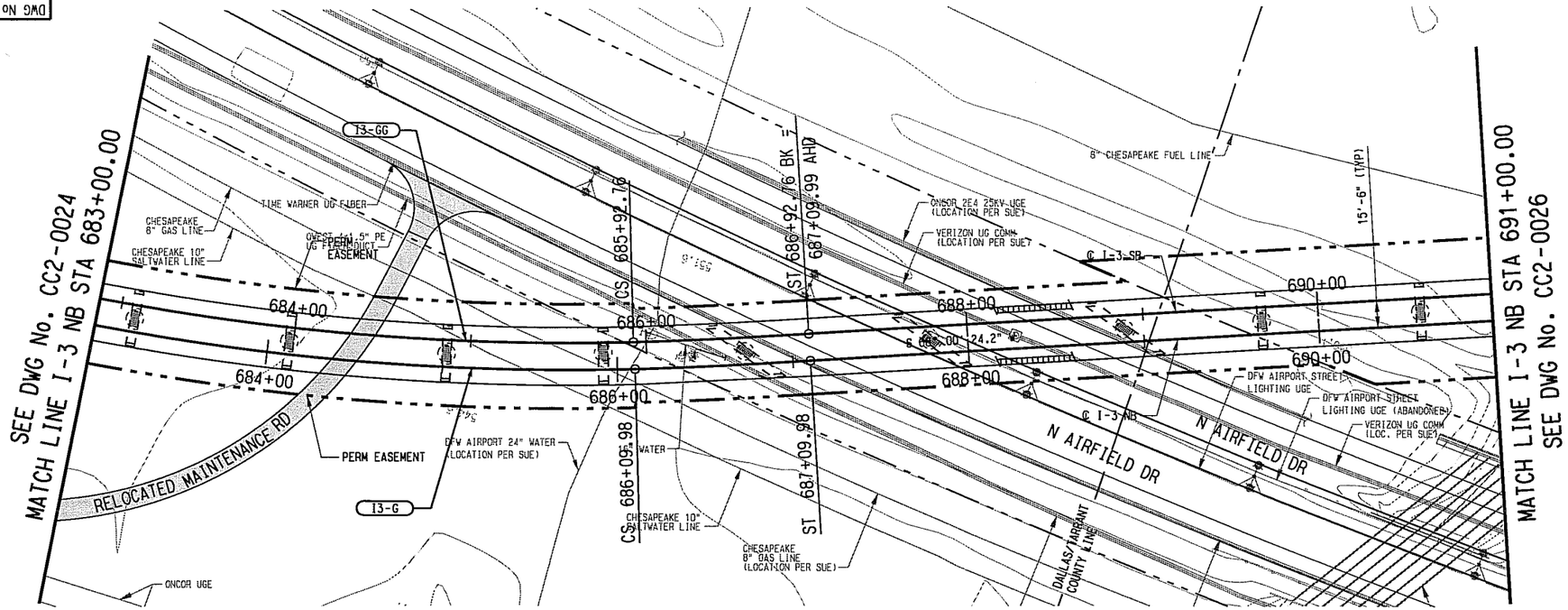
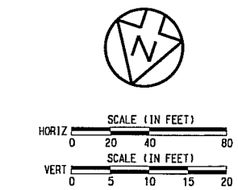
don_king_VB
$$MODEL$$
7/14/2010





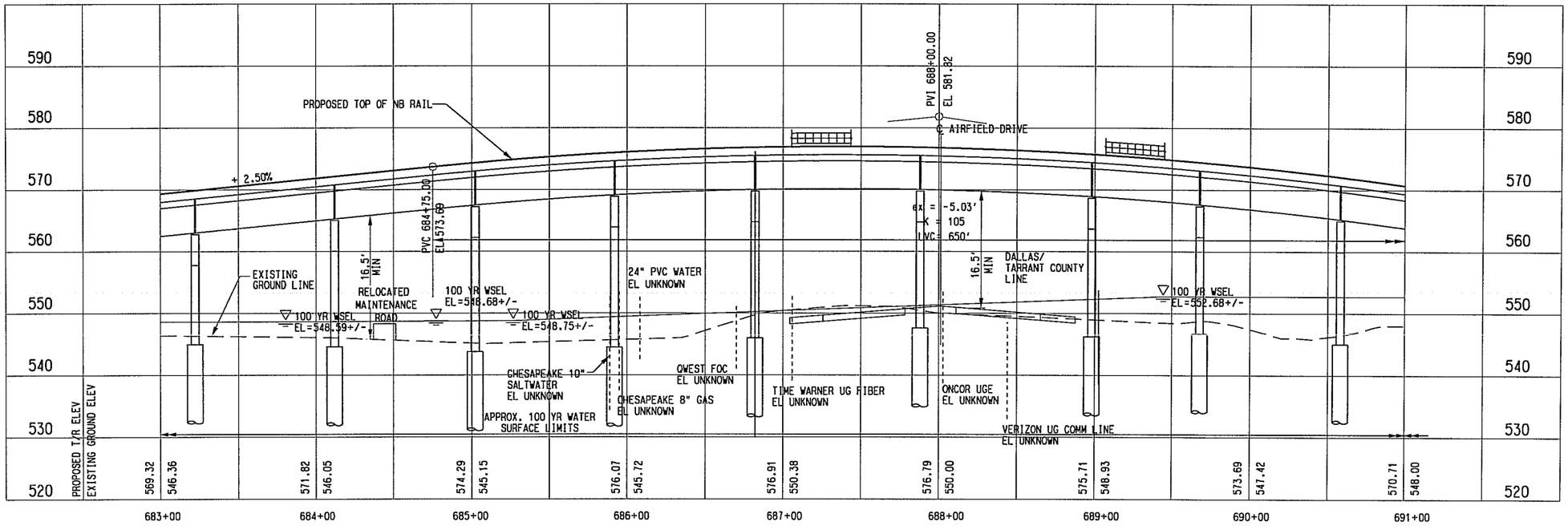
I3-G (NB)		I3-GG (SB)	
Rc=	1415.50'	Rc=	1400.00'
Ls=	100.00'	Ls=	100.00'
Lc=	1473.19'	Lc=	1455.96'
Ea=	2.00"	Ea=	2.00"
Eu=	1.46"	Eu=	1.46"
V=	35 MPH	V=	35 MPH

NOTES:

1. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT'S DESIGN OF NORTH AIRFIELD DRIVE.
2. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION



NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 50 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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

DART PROJECT

DART

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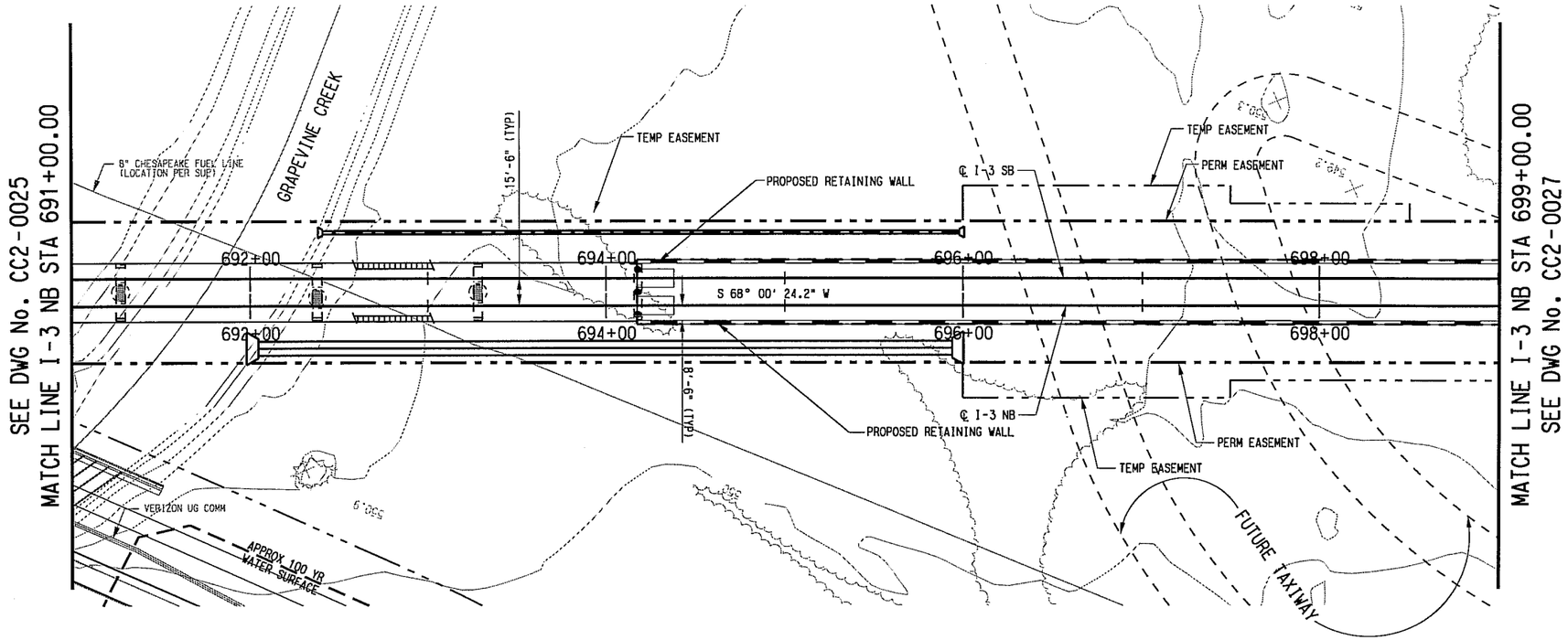
SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

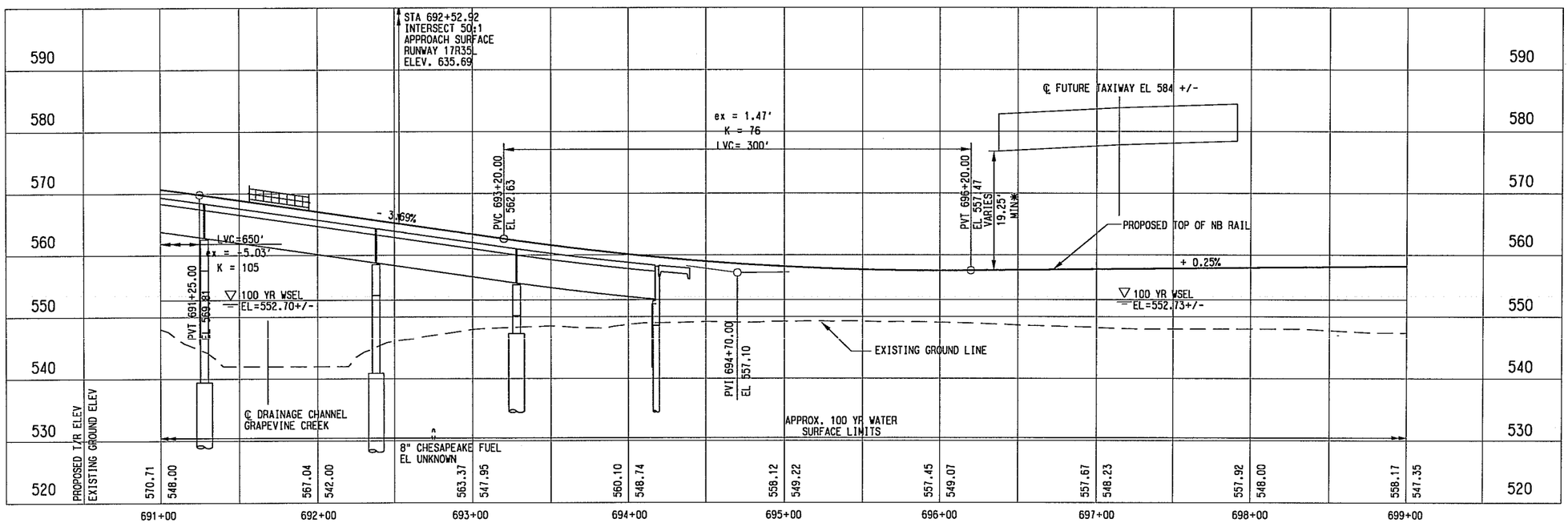
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

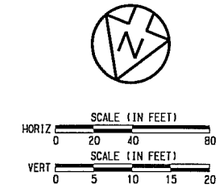
GUIDEWAY PLAN AND PROFILE
STA 683+00.00 TO STA 691+00.00

CONTRACT	DWG No.	REV
	CC2-0025	

\\dm-fps04\dm_projects\25337852.00001 dwf I-3\dgn\CVL-AL\I3XAL25.DGN
dgn_Lib_V8
$$NODELAS
7/14/2010







NOTES:

1. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT'S DESIGN OF THE FUTURE PERIMETER TAXIWAY BRIDGES.
2. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.

* DESIGN EXCEPTION REQUIRED

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

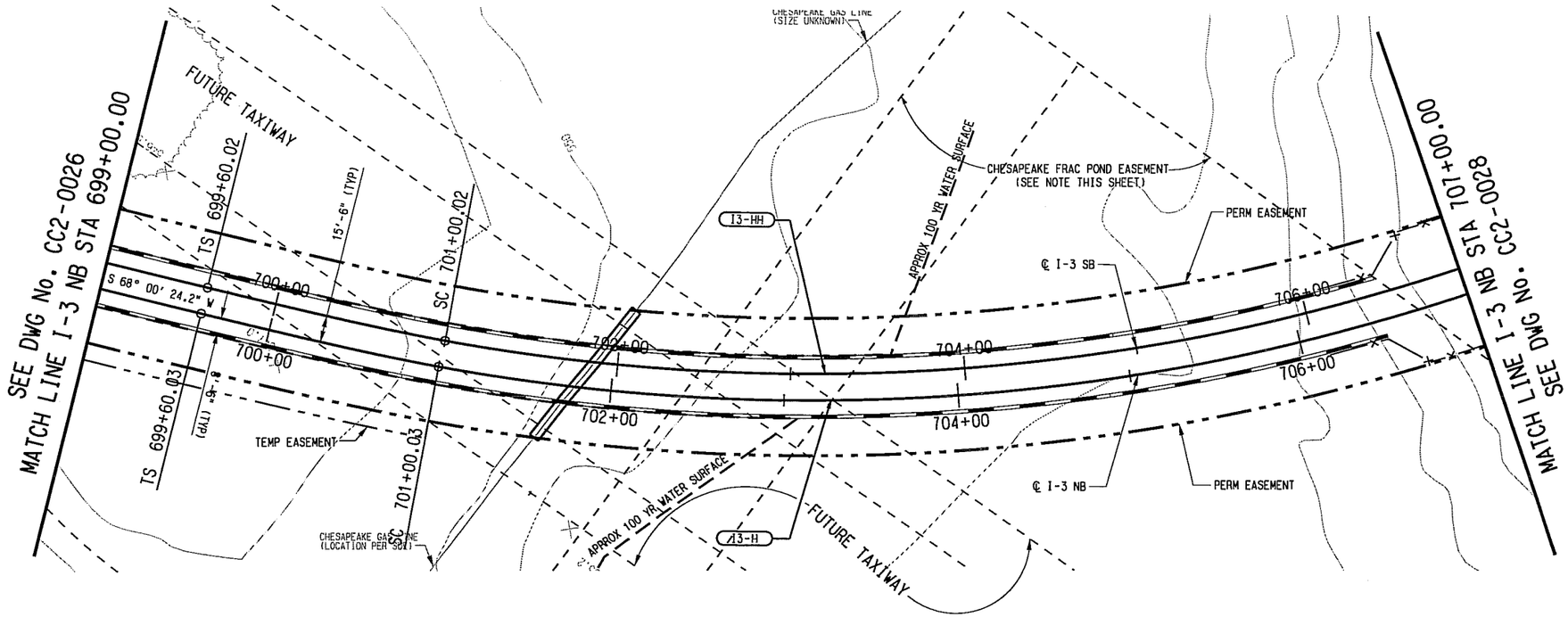
CONTRACT SHEET No. 51 OF 62

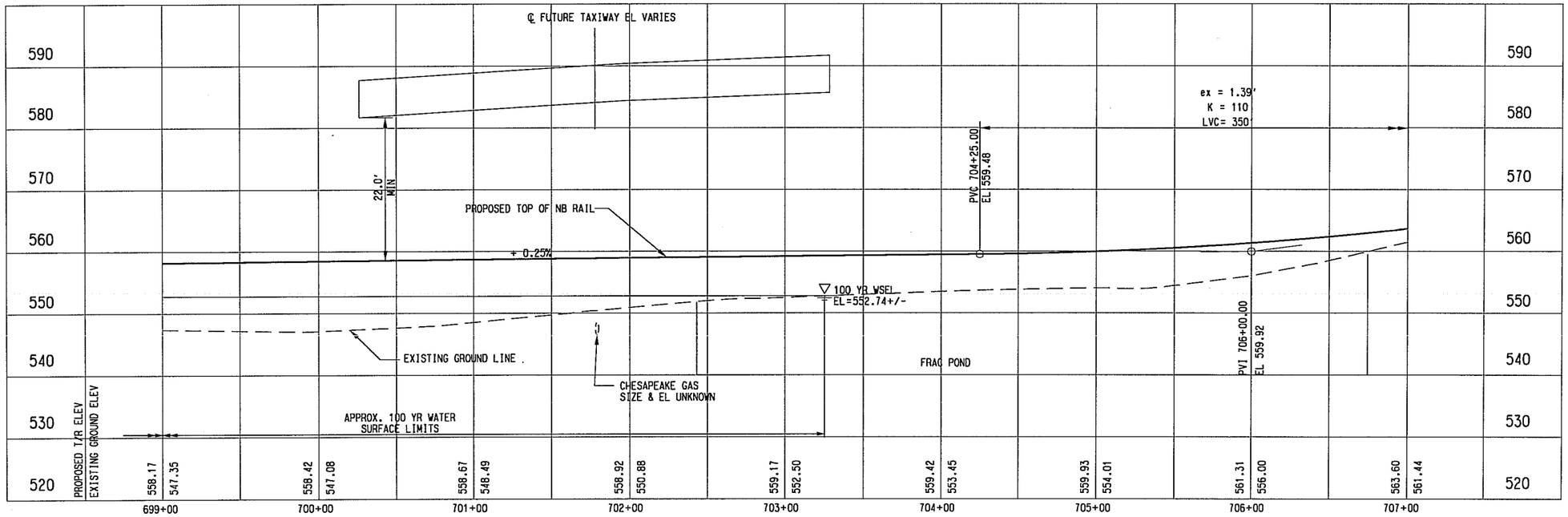
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 691+00.00 TO STA 699+00.00

CONTRACT	DWG No.	REV
	CC2-0026	

\\dm-fps04\dm_projects\25337852.00001 dart I-3\dgn\CVL-ALIGNXAL26.DGN
don_king_VG
$$MODEL$$
7/14/2010





SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

I3-H (NB)		I3-HH (SB)	
Rc=	1170.50'	Rc=	1155.00'
Ls=	140.00'	Ls=	140.00'
Lc=	1173.60'	Lc=	1156.20'
Ea=	2.75"	Ea=	2.75"
Eu=	1.44"	Eu=	1.50"
V=	35 MPH	V=	35 MPH

NOTES:

1. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT'S DESIGN OF THE PERIMETER TAXIWAY BRIDGES.
2. SEE DWG. NO. CC2-0001 FOR ADDITIONAL NOTES.
3. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT FOR DFW AIRPORT'S REMOVAL OF CHESAPEAKE'S DFW-AD FRAC POND. REMOVAL OF FRAC POND SHALL INCLUDE RESTORING THE AREA TO PREEXISTING CONDITIONS.

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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URS CORPORATION ID #3162

DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

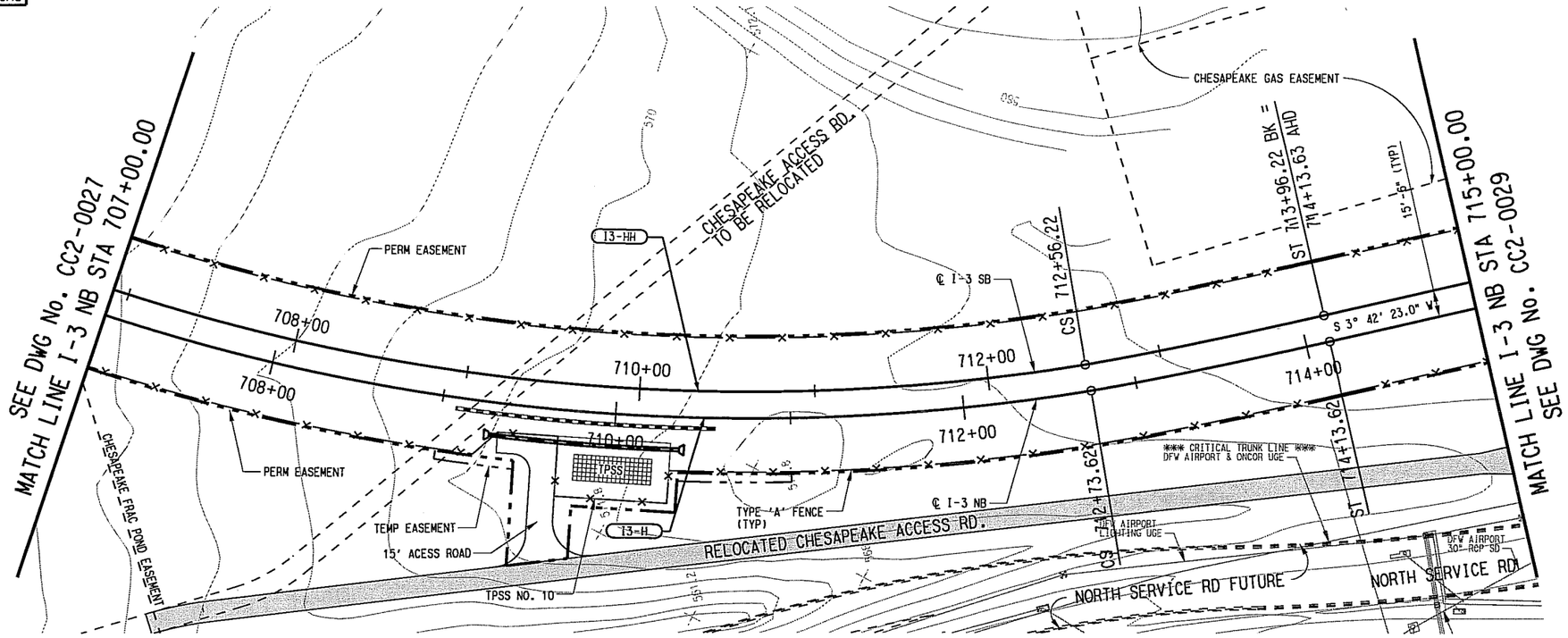
CONTRACT SHEET No. 52 OF 62

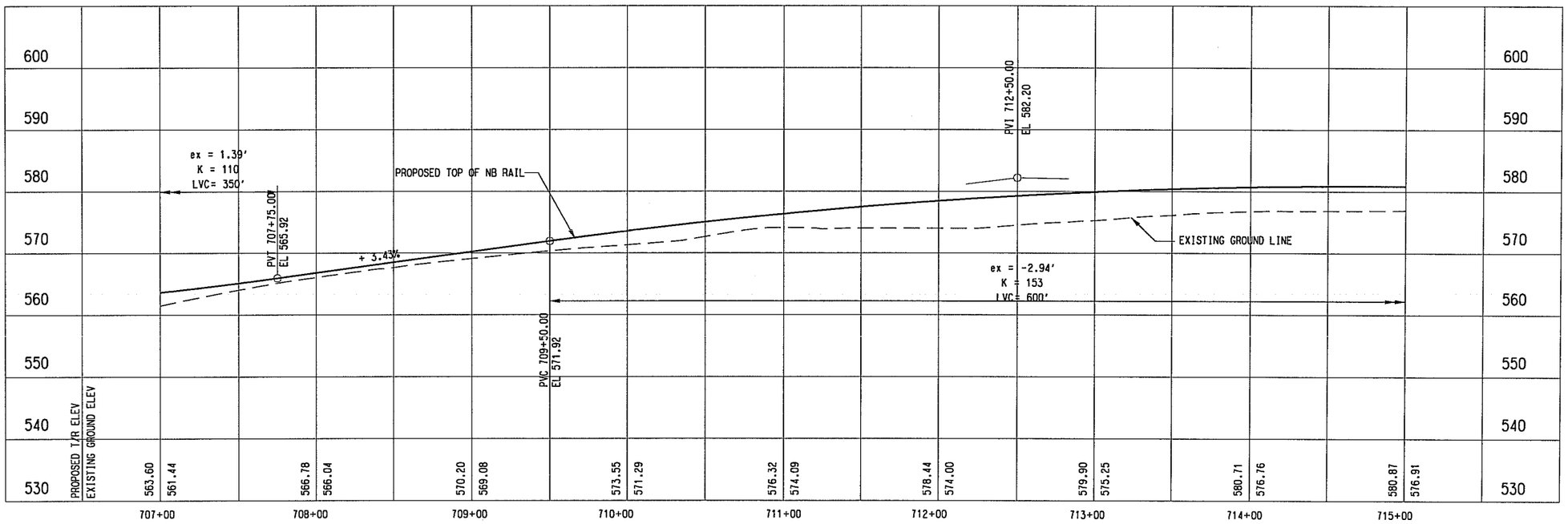
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

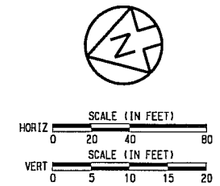
GUIDEWAY PLAN AND PROFILE
STA 699+00.00 TO STA 707+00.00

CONTRACT	DWG No.	REV
	CC2-0027	

\\dm-fps04\dm_projects\25337852_00001 dgn I-3\dgn\CVL-ALN\I33XL27.DGN
dan_king_VB
$$WORDLESS
7/14/2010







I3-H (NB)		I3-HH (SB)	
Rc=	1170.50'	Rc=	1155.00'
Ls=	140.00'	Ls=	140.00'
Lc=	1173.60'	Lc=	1156.20'
Eo=	2.75"	Eo=	2.75"
Eu=	1.44"	Eu=	1.50"
V=	35 MPH	V=	35 MPH

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

GRADING FOR SYSTEMS ELEMENTS, TPSS, AND OTHER SYSTEMS ELEMENTS

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. PROPOSED TPSS LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL PERFORM A TRACTION POWER LOAD FLOW ANALYSIS FOR ALL PROPOSED TPSS LOCATIONS TO ENSURE ADEQUATE PLACEMENT. FINAL DESIGNER SHALL COORDINATE WITH ONCOR FOR THE POWER FEEDS TO THE TPSS LOCATIONS. FINAL DESIGNER WILL NEED TO COORDINATE THE POWER FEED DESIGN WITH DFW AIRPORT.
3. SUBSTATION SITE SHALL ACCOMMODATE TRACTION POWER SUBSTATION, SPDC, AND COMMUNICATION BUNGALOW.
4. FINAL DESIGNER SHALL CONSIDER FIRE APPARATUS REQUIREMENTS WHEN DESIGNING ACCESS ROADS. COORDINATION WITH DFW AIRPORT FIRE DEPARTMENT SHALL CONTINUE THROUGH FINAL DESIGN.

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 53 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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214-741-7777
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DART

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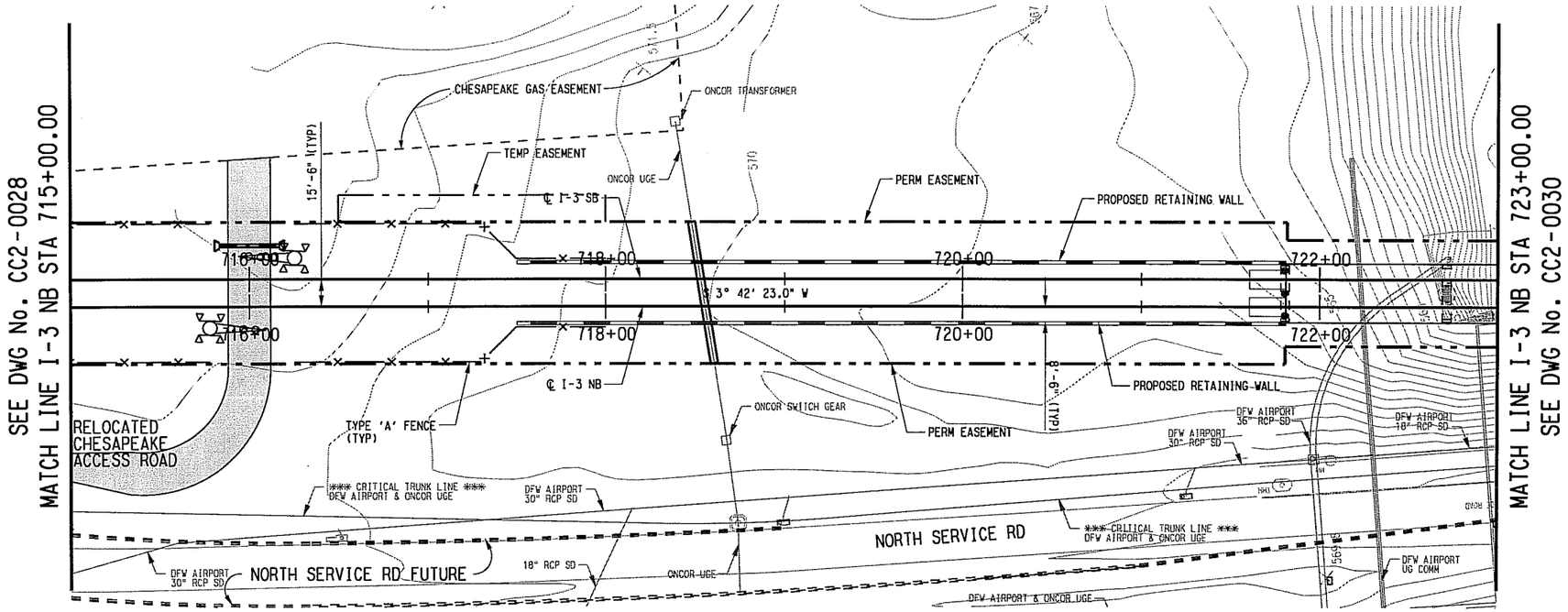
SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

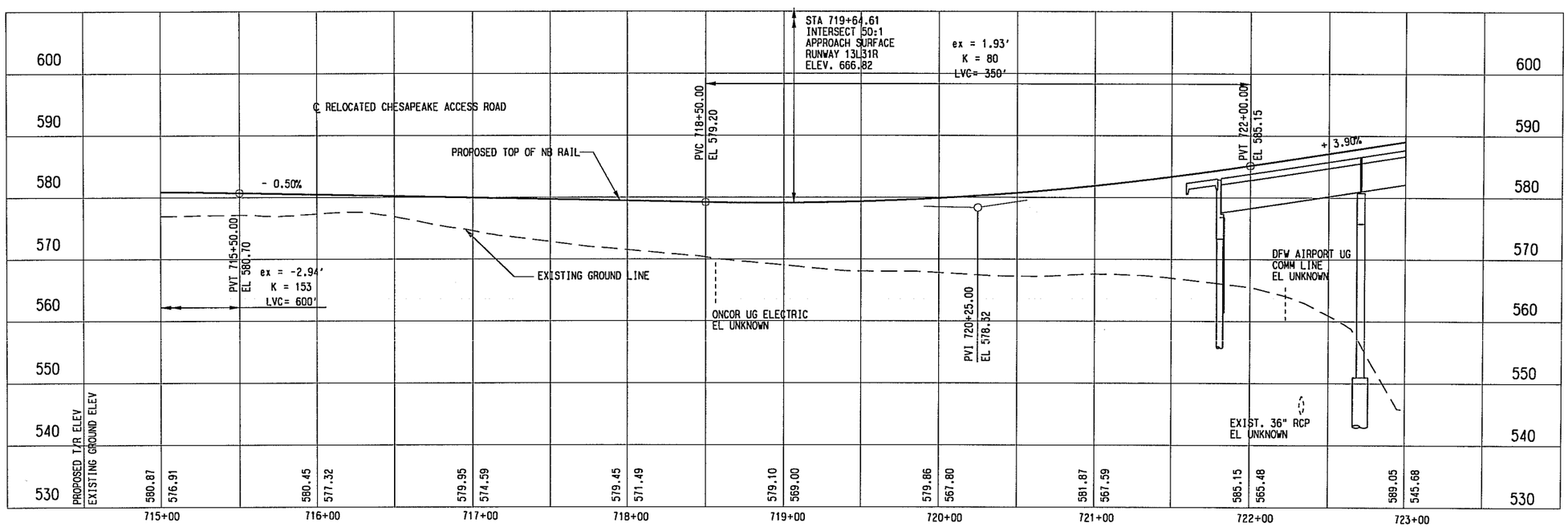
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

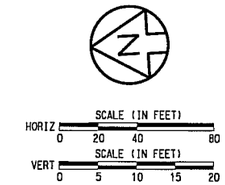
GUIDEWAY PLAN AND PROFILE
STA 707+00.00 TO STA 715+00.00

CONTRACT	DWG No.	REV
	CC2-0028	

\\dm-fps04\dm_projects\25331852.00001 dgn I-3\dgn\CVL-AL\1R3XAL28.DGN
dan_king_V8
$$WORDLIB$
7/14/2010







LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.

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PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 54 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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URS CORPORATION ID #3162

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 715+00.00 TO STA 723+00.00

CONTRACT	DWG No.	REV
	CC2-0029	

\\dm-fpd4\dm_projects\25337852.00001 dart I-3\dgn\CVL-ALN13XALZ9.DAD
dan_king_VB
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7/14/2010
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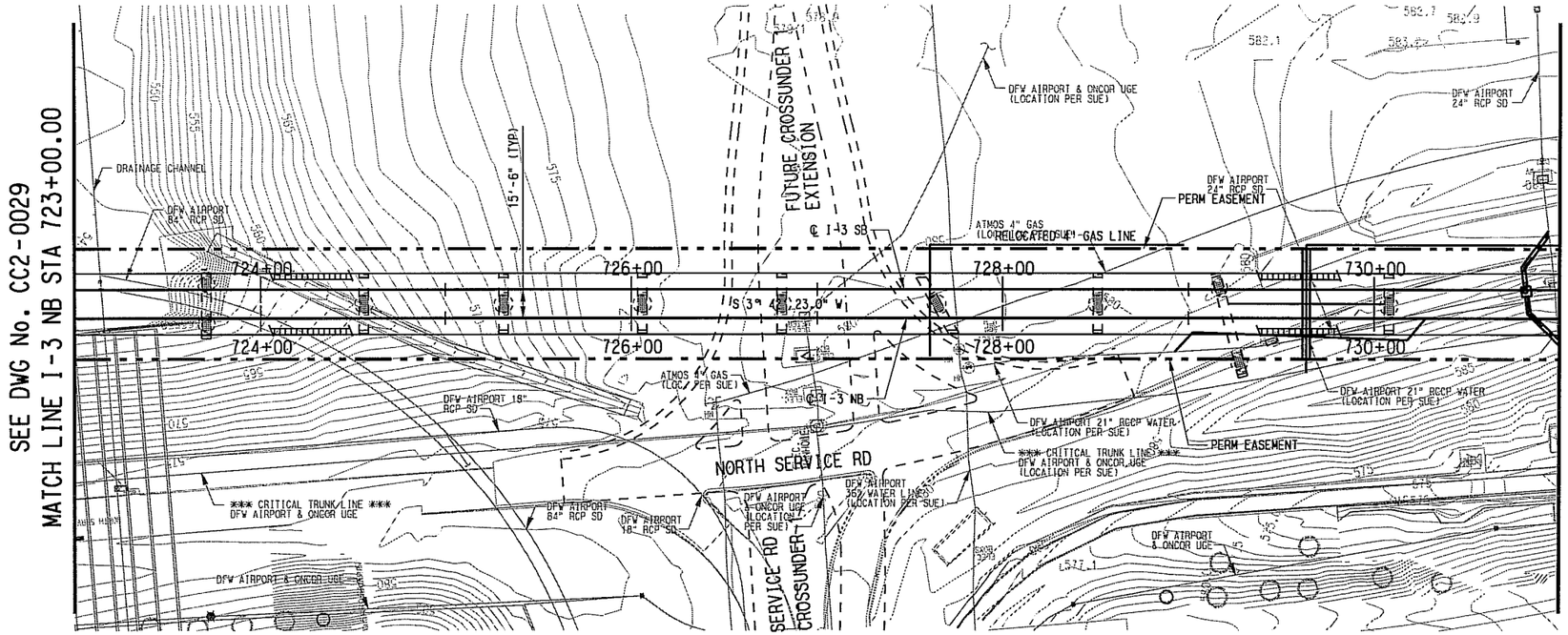
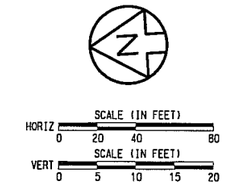
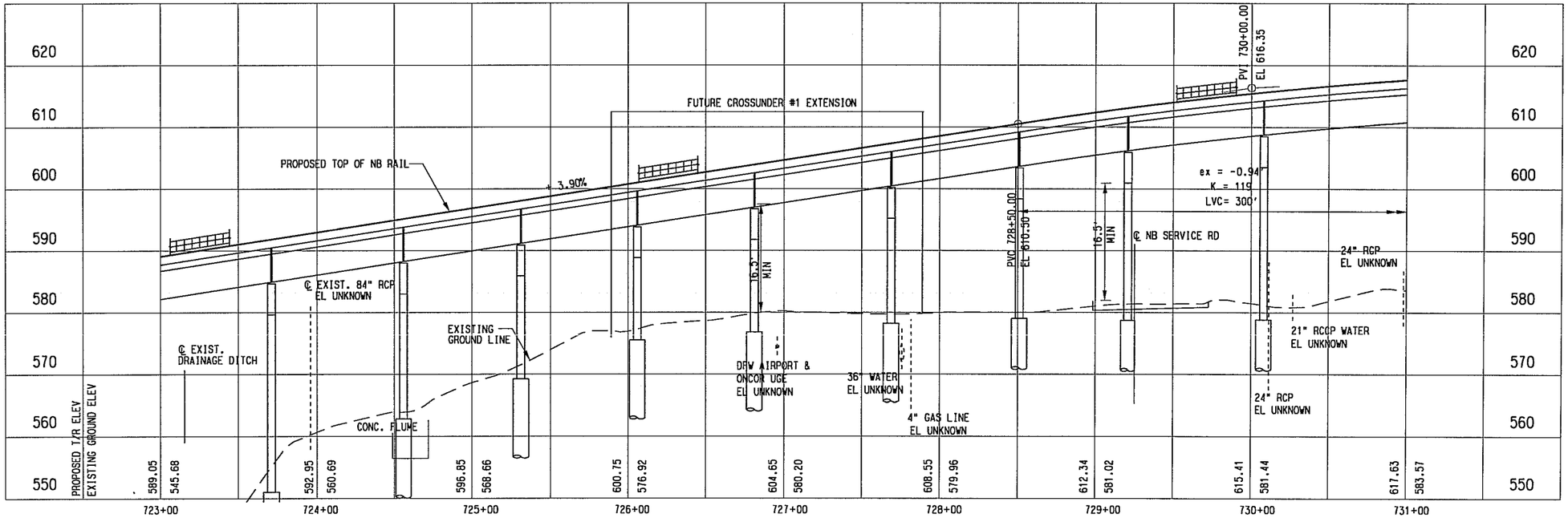




NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. FINAL DESIGNER SHALL COORDINATE THE DESIGN WITH DFW AIRPORT'S DESIGN OF CROSSUNDER #1 EXTENSION.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

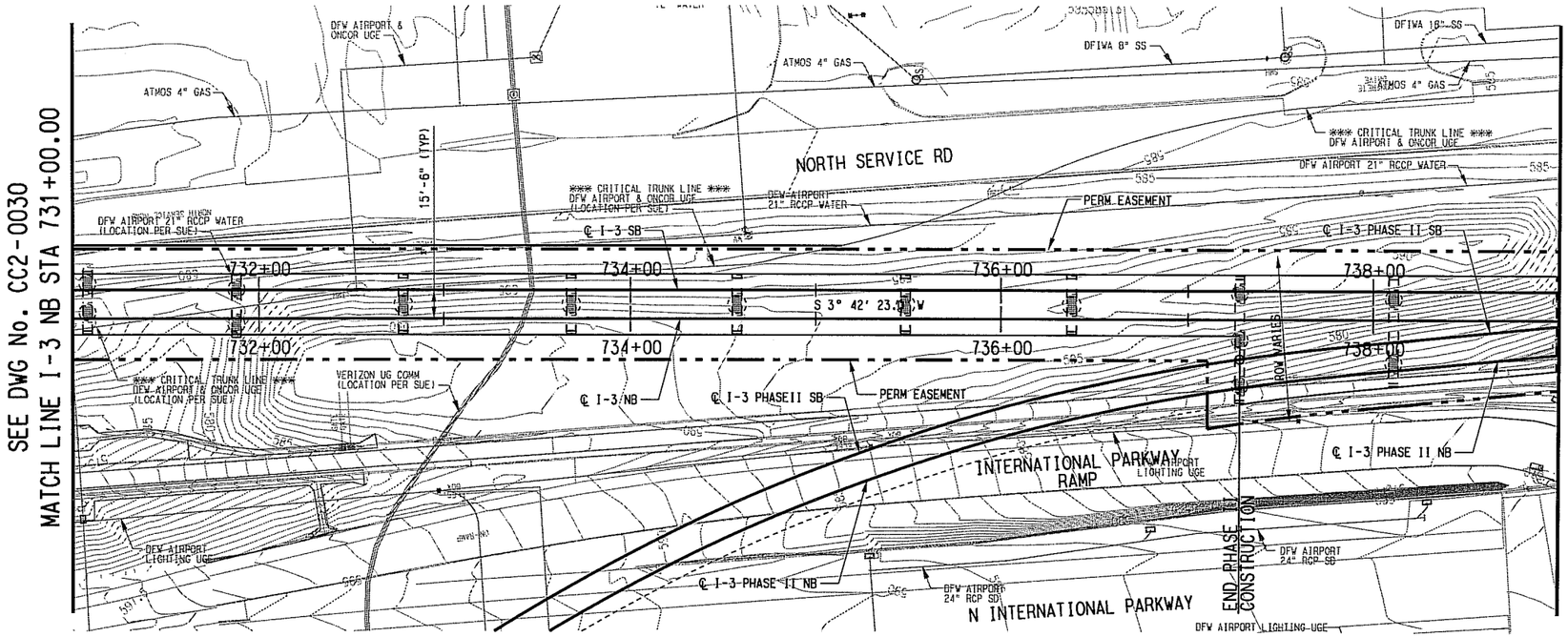
CONTRACT SHEET No. 55 OF 62

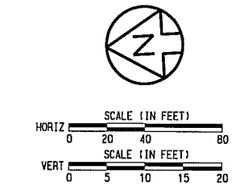
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 723+00.00 TO STA 731+00.00

CONTRACT	DWG No.	REV
	CC2-0030	

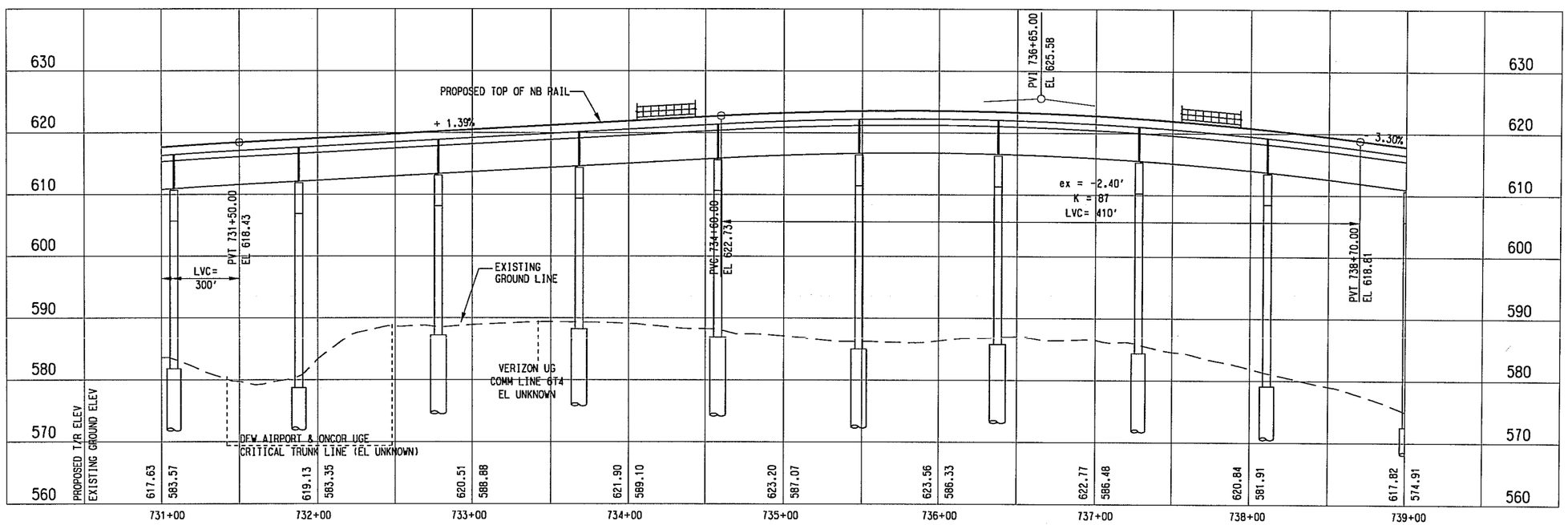
\\dm-fpa04\dm_projects\25337B02.00001 dgn I-3\dgn\CVL-ALI\R3XALI0.040
dan_king_V8
$$MODEL$$
7/14/2010





NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. THE PHASE I TO PHASE II INTERFACE SHALL BE CONSTRUCTED AS PART OF THE PHASE I CONSTRUCTION. THE EXACT LIMITS OF THE PHASE II CONSTRUCTION SHALL BE DETERMINED DURING FINAL DESIGN.



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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URS CORPORATION ID #3162

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DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 56 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 731+00.00 TO STA 739+00.00

CONTRACT	DWG No.	REV
	CC2-0031	

\\dm-fpd01\dm_projects\25337852.00001 dart I-3\dgn\CVL-ALVIRSVAL31.DGN
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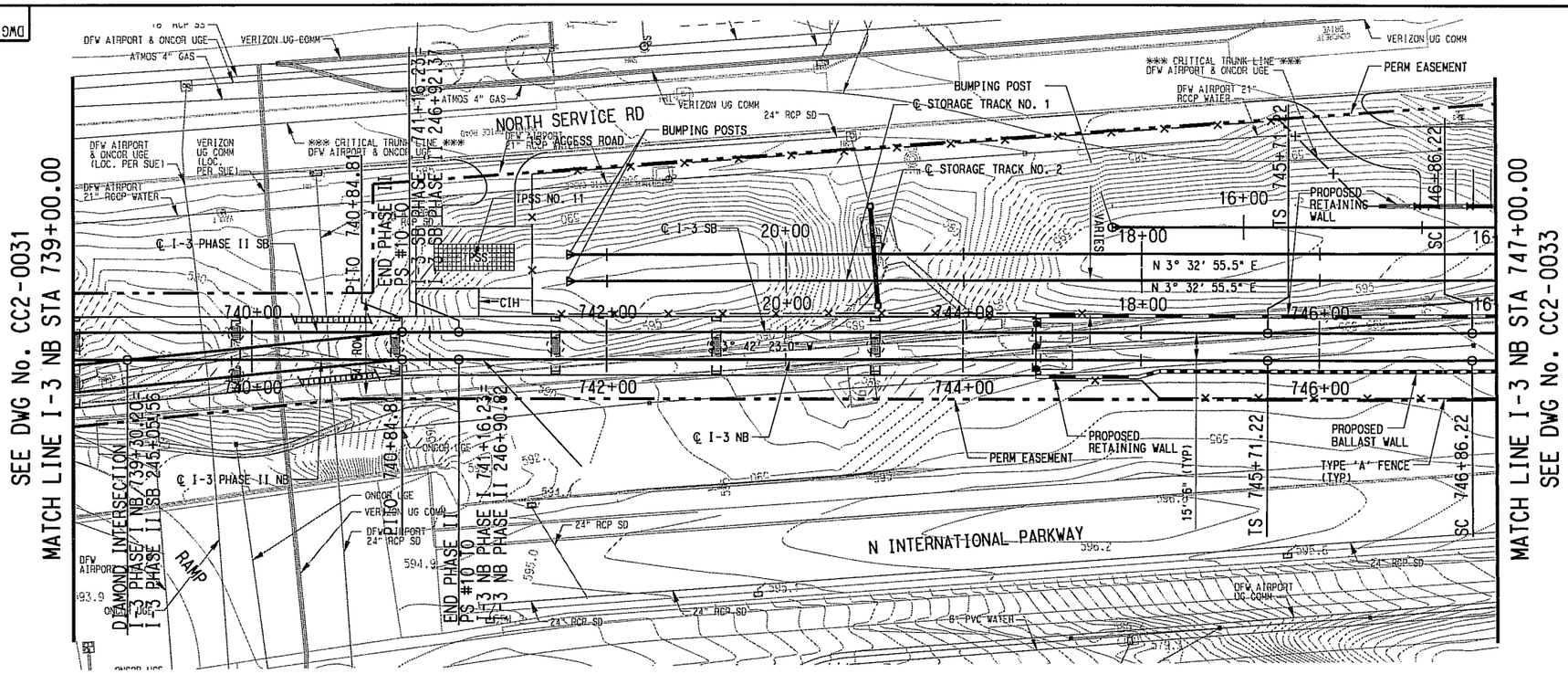
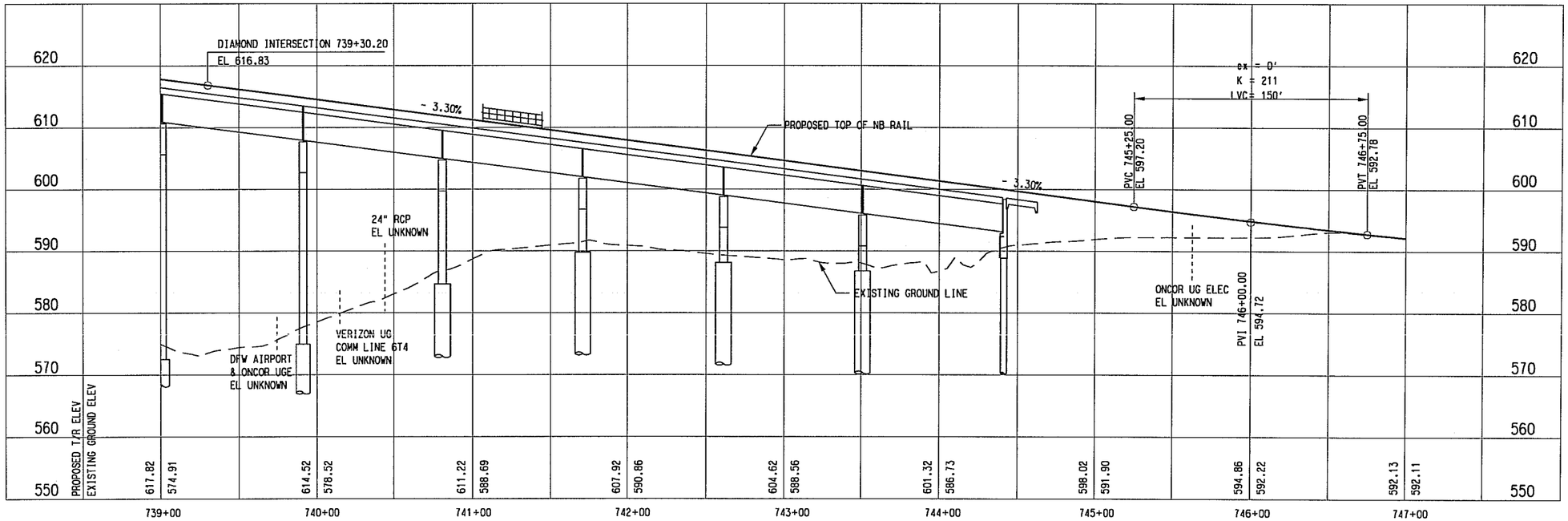
$$$$USERL$$
7/14/2010





NOTES:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. SEE DWG. No. CC2-0036 FOR STORAGE TRACK INFORMATION.
3. FINAL DESIGNER WILL NEED A DESIGN EXCEPTION FOR THE STORAGE FACILITY, DUE TO THE LOCATION IS NOT AT THE END OF THE LINE SECTION.
4. PROPOSED TPSS LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL PERFORM A TRACTION POWER LOAD FLOW ANALYSIS FOR ALL PROPOSED TPSS LOCATIONS TO ENSURE ADEQUATE PLACEMENT. FINAL DESIGNER SHALL COORDINATE WITH ONCOR FOR THE POWER FEEDS TO THE TPSS LOCATIONS. FINAL DESIGNER WILL NEED TO COORDINATE THE POWER FEED DESIGN WITH DFW AIRPORT.
5. SUBSTATION SITE SHALL ACCOMMODATE TRACTION POWER SUBSTATION, SPDC, AND COMMUNICATION BUNGALOW. ACCESS ROAD TO SITE SHALL BE DETERMINED DURING THE FINAL DESIGN PHASE.
6. FINAL DESIGNER SHALL CONSIDER FIRE APPARATUS REQUIREMENTS WHEN DESIGNING ACCESS ROADS. COORDINATION WITH DFW AIRPORT FIRE DEPARTMENT SHALL CONTINUE THROUGH FINAL DESIGN.
7. THE PHASE I INTERFACE TO PHASE II SHALL BE CONSTRUCTED AS PART OF THE PHASE I CONSTRUCTION. THE EXACT LIMITS OF THE PHASE II CONSTRUCTION SHALL BE DETERMINED DURING FINAL DESIGN.

SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

LEGEND

GRADING FOR SYSTEMS ELEMENTS, TPSS, AND OTHER SYSTEMS ELEMENTS

NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 57 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 739+00.00 TO STA 747+00.00

CONTRACT	DWG No.	REV
	CC2-0032	

\\dm-fps04\dm_projects\25337852_00001 dgn I-3\dgn\CVL-ALI\R3VAL32.DGN
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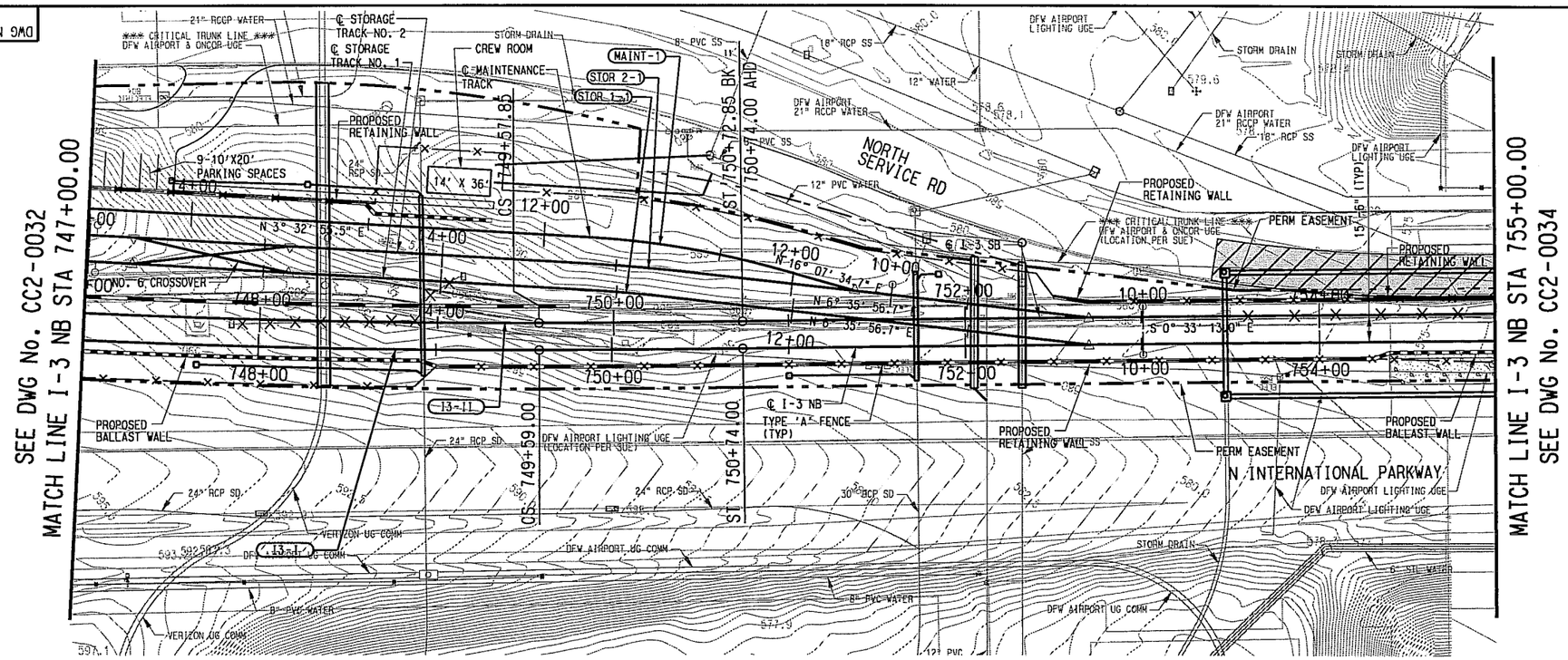
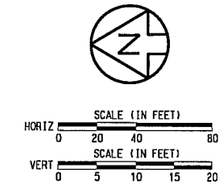
$$MODEL$$
7/14/2010

DWG No. CC2-0033

P0033





I3-I (NB)		I3-II (SB)	
Rc=	5215.50'	Rc=	5200.00'
Ls=	115.00'	Ls=	115.00'
Lc=	272.75'	Lc=	250.90'
Eo=	1.75"	Eo=	1.75"
Eu=	1.49"	Eu=	1.50"
V=	65 MPH	V=	65 MPH

LEGEND

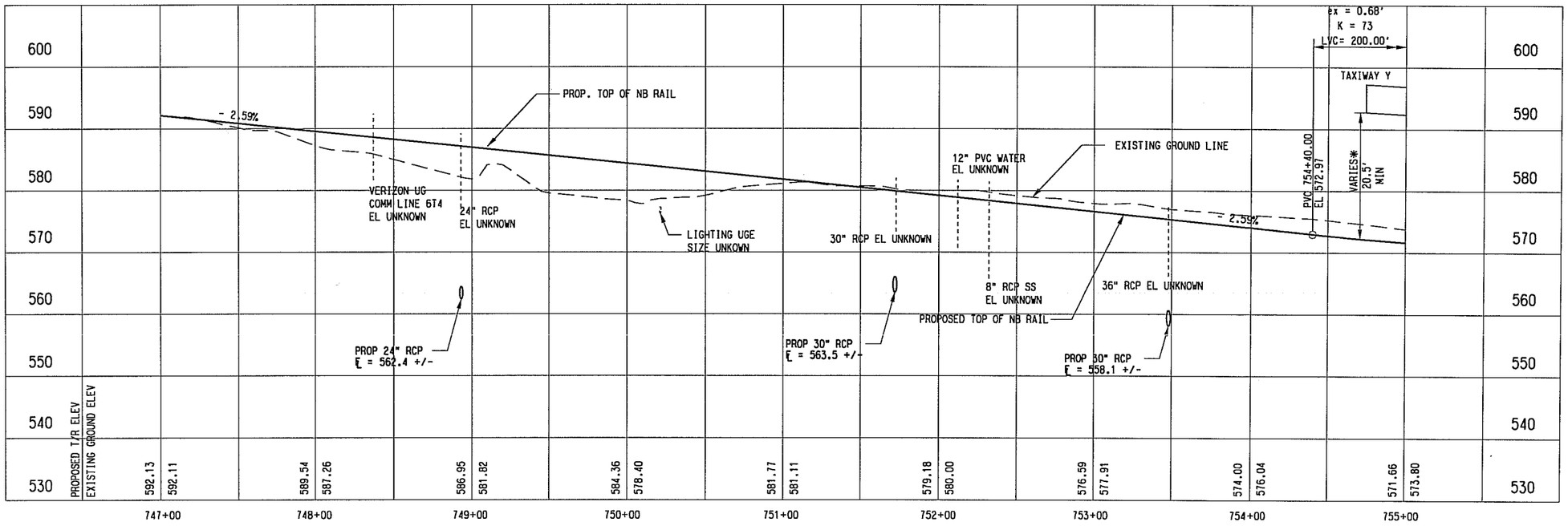
STREET/ALLEY/ DRIVE RECONSTRUCTION

CONCRETE SLOPE PROTECTION

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. SEE DWG. No. CC2-0037 FOR STORAGE TRACK INFORMATION.
3. FINAL DESIGNER WILL NEED A DESIGN EXCEPTION FOR THE STORAGE FACILITY, DUE TO THE LOCATION IS NOT AT THE END OF THE LINE SECTION.

* - DESIGN EXCEPTION REQUIRED



NOT AN APPROVED DRAWING
PRELIMINARY ENGINEERING 10% DESIGN

CONTRACT SHEET No. 58 OF 62

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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RICHEY THOMPSON, P.E. NO. 95919
ON 07/15/2010
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URS
1950 NORTH STEMMONS FREEWAY
SUITE 6000
DALLAS, TEXAS 75207
214-741-7777
URS CORPORATION ID #3162

DART PROJECT

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 747+00.00 TO STA 755+00.00

CONTRACT	DWG No.	REV
	CC2-0033	

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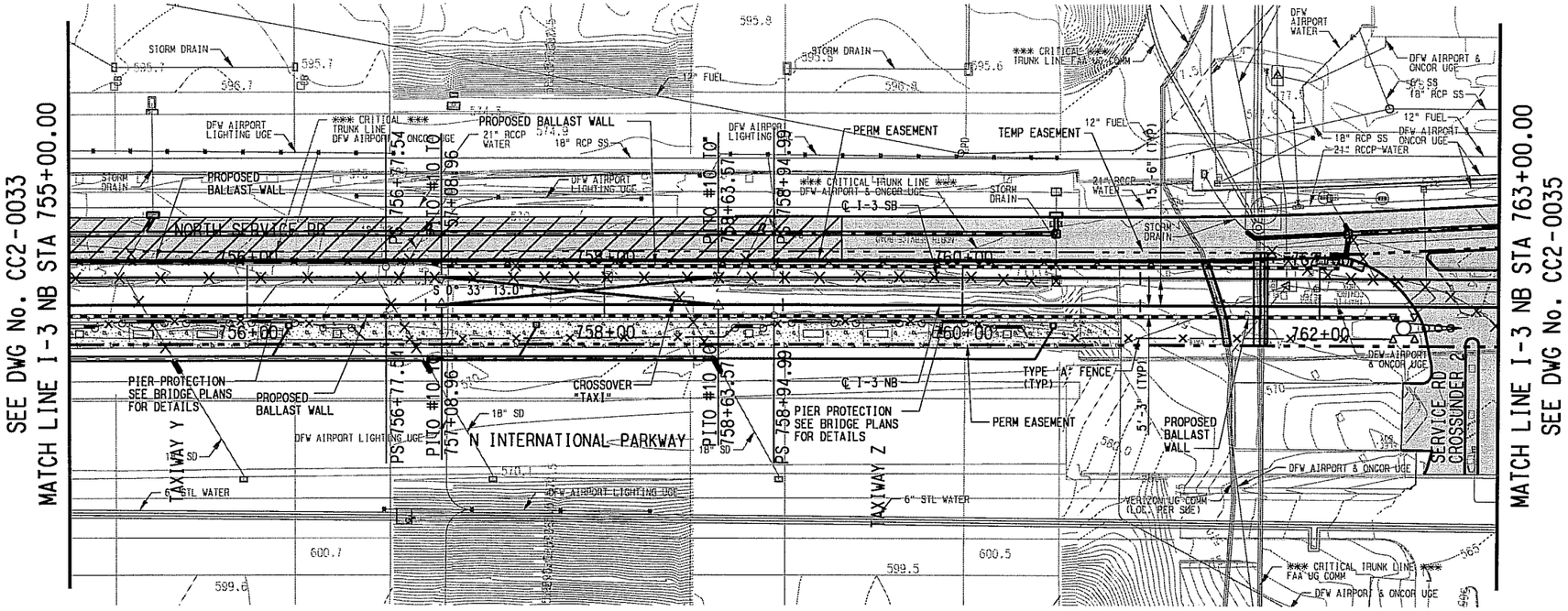
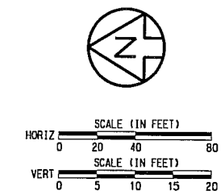
7/14/2010





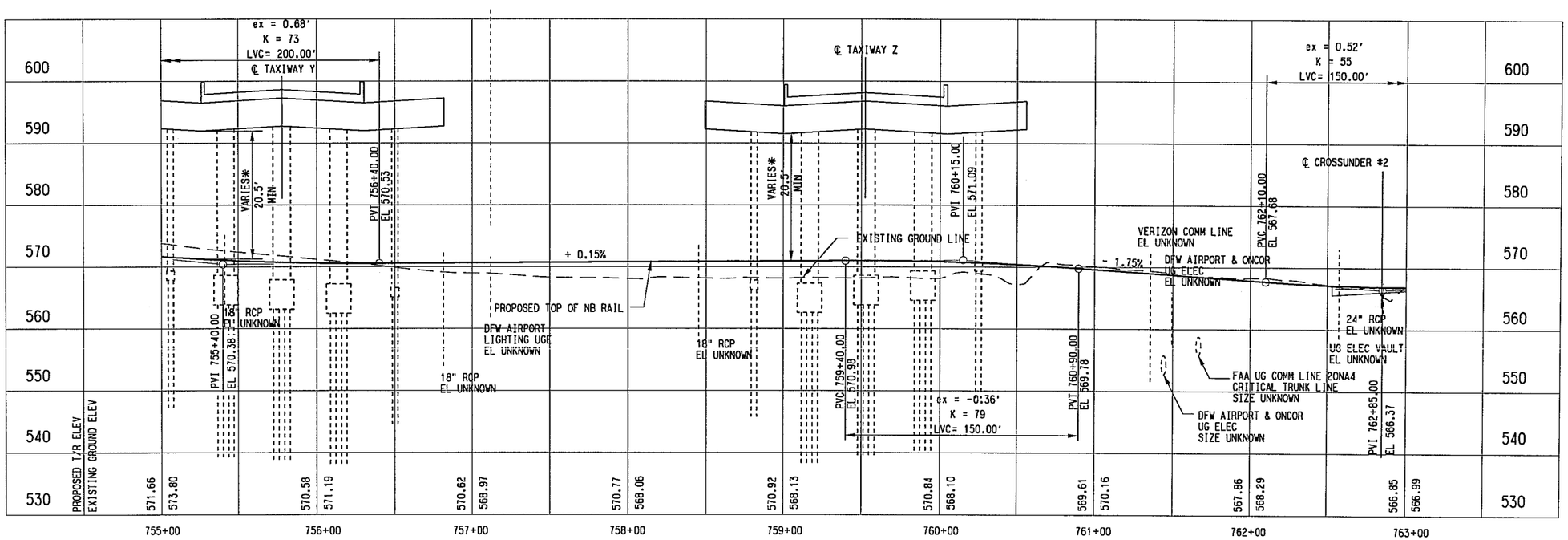
LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

CONCRETE SLOPE PROTECTION

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. PROPOSED CROSSOVER LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL COORDINATE FINAL LOCATION WITH DART SYSTEMS ENGINEERING AND INTEGRATION DEPARTMENT.
3. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT FOR DFW AIRPORT'S REMOVAL OF THE ABANDONED "AIRTRANS" FACILITY.
4. FROM APPROXIMATE STA. 753+25 TO THE END OF PROJECT, AN ENVELOPE WILL BE DESIGNED AND CONSTRUCTED BY DFW AIRPORT AS PART OF THE TERMINAL DEVELOPMENT PLAN. THE FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT DURING FINAL DESIGN.



* - DESIGN EXCEPTION REQUIRED

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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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

DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 59 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 755+00.00 TO STA 763+00.00

CONTRACT | DWG No. CC2-0034 | REV

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7/14/2010
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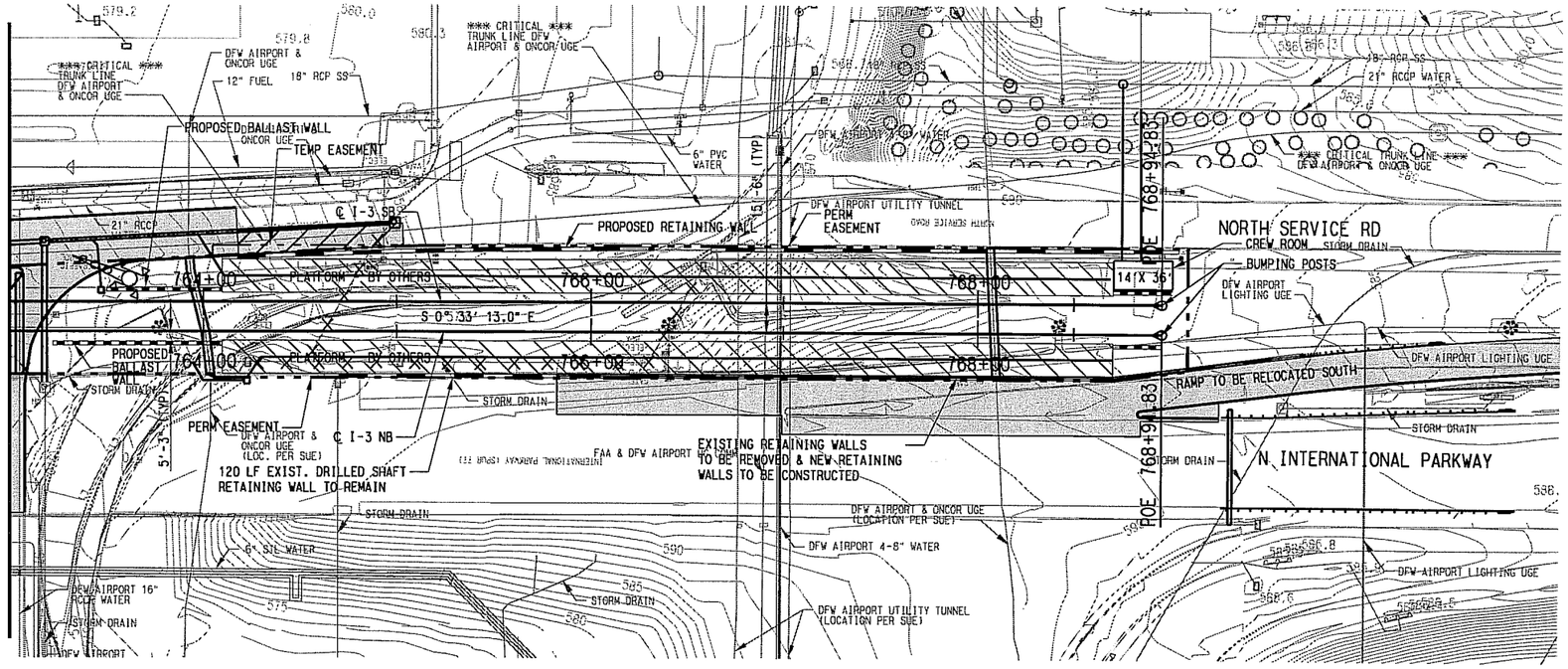
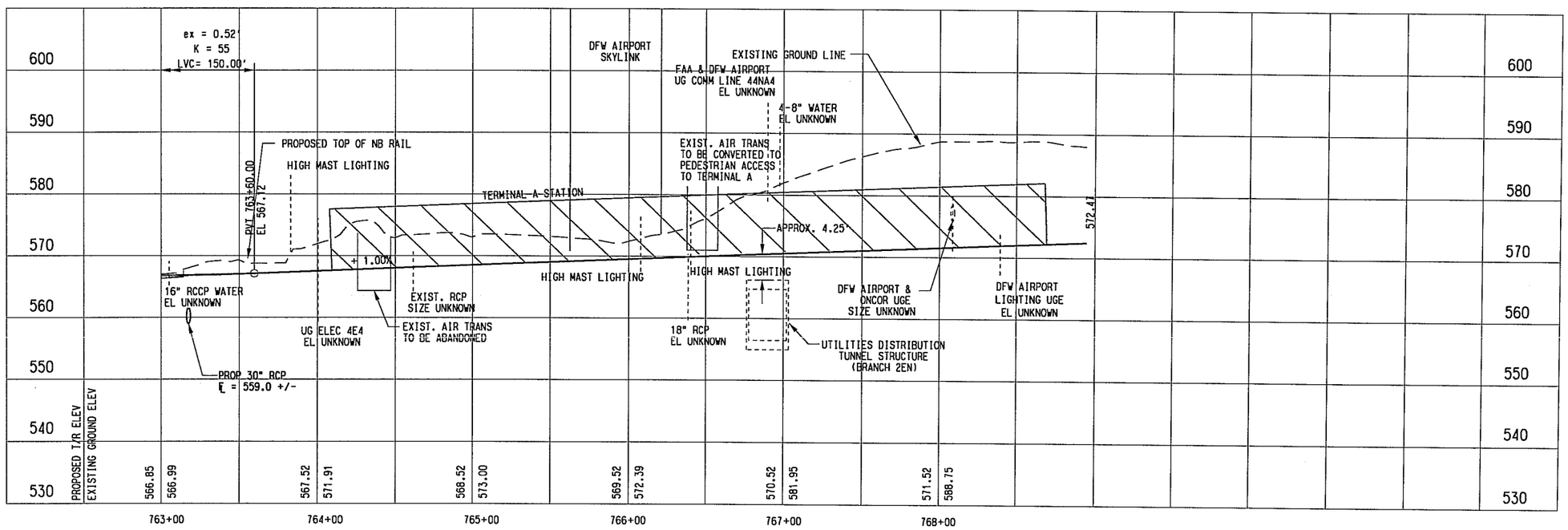
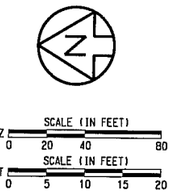
SEE DWG No. CC2-0034
MATCH LINE I-3 NB STA 763+00.00







NOTES:

1. STATION PLATFORM IS TO BE BUILT BY DALLAS/FORT WORTH INTERNATIONAL AIRPORT. FINAL LOCATIONS & PLATFORM TYPE WILL NEED TO BE COORDINATED.
2. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
3. FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT FOR DFW AIRPORT'S REMOVAL OF THE ABANDONED "AIRTRANS" FACILITY.
4. FROM APPROXIMATE STA. 753+25 TO THE END OF PROJECT, AN ENVELOPE WILL BE DESIGNED AND CONSTRUCTED BY DFW AIRPORT AS PART OF THE TERMINAL DEVELOPMENT PLAN. THE FINAL DESIGNER SHALL COORDINATE WITH DFW AIRPORT DURING FINAL DESIGN.

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

STATION CONCOURSE/ PLATFORM (BY OTHERS)

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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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URS CORPORATION ID #3162

DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 60 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STA 763+00.00 TO END OF PROJECT

CONTRACT | DWG No. CC2-0035 | REV

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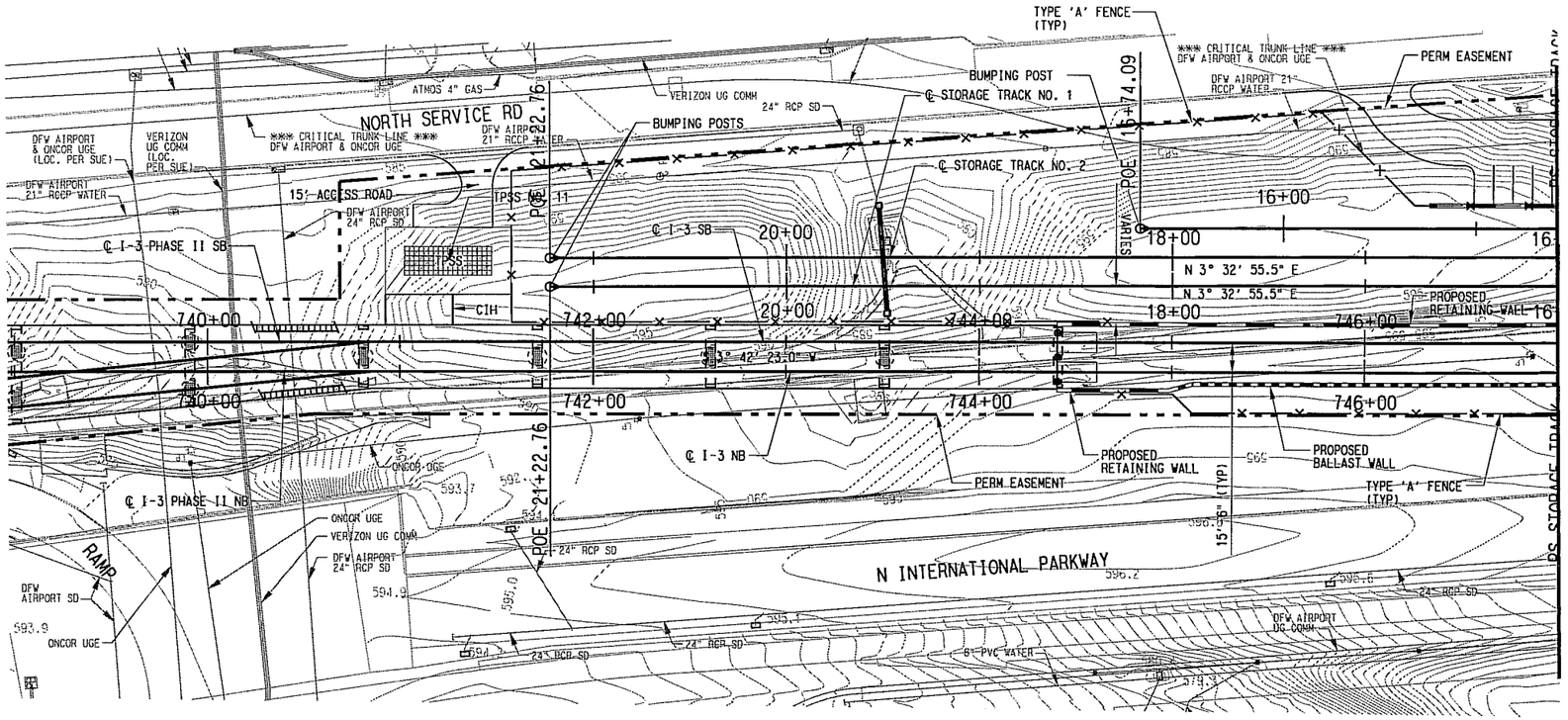
dan_king_VG $$WORDELB$$ 7/14/2010

DWG No. CC2-0036



MATCH LINE STORAGE TRACK NO. 1 STA 16+00.00
SEE DWG No. CC2-0037

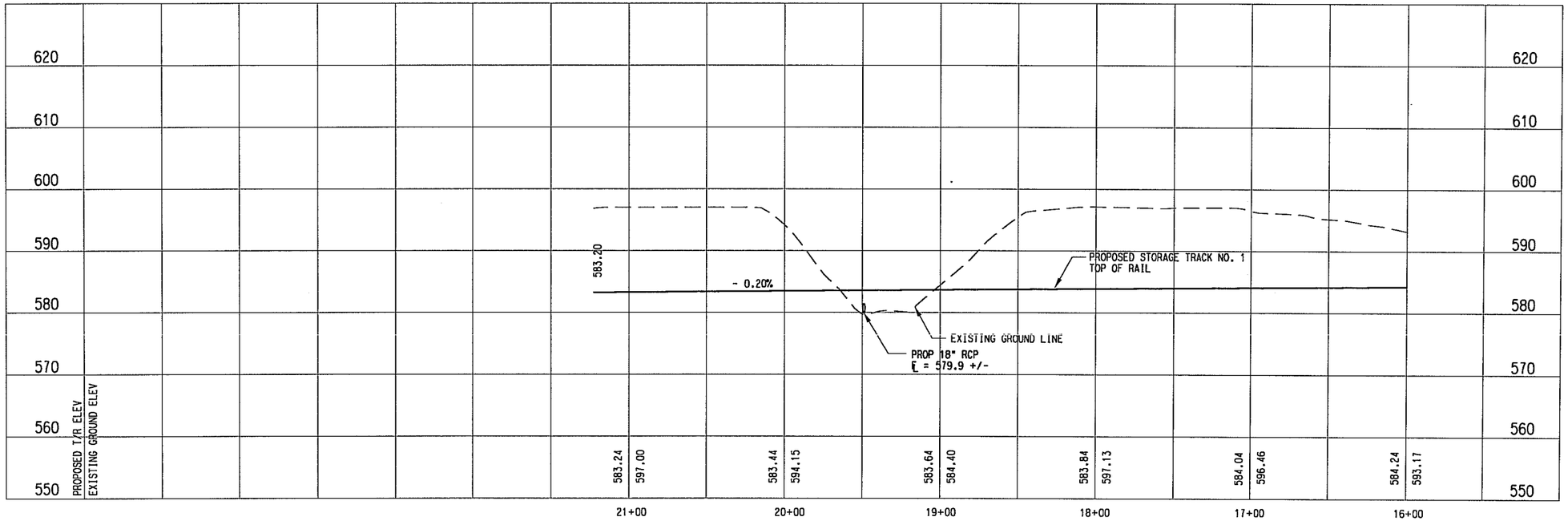
SCALE (IN FEET)
HORIZ 0 20 40 80
SCALE (IN FEET)
VERT 0 5 10 15 20

NOTES:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. SEE DWG. No. CC2-0032 FOR I-3 NB & SB MAINLINE INFORMATION.
3. FINAL DESIGNER WILL NEED A DESIGN EXCEPTION FOR THE STORAGE FACILITY, DUE TO THE LOCATION IS NOT AT THE END OF THE LINE SECTION.
4. PROPOSED TPSS LOCATION IS PRELIMINARY. FINAL DESIGNER SHALL RUN THE SIMULATION FOR ALL PROPOSED TPSS SITE LOCATIONS TO INSURE ADEQUATE PLACEMENT.
5. SUBSTATION SITE SHALL ACCOMODATE TRACTION POWER SUBSTATION, SPDC, AND COMMUNICAITON BUNGALOW. ACCESS ROAD TO SITE SHALL BE DETERMINED DURING THE FINAL DESIGN PHASE.

LEGEND

GRADING FOR SYSTEMS ELEMENTS, TPSS, AND OTHER SYSTEMS ELEMENTS



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PRELIMINARY ENGINEERING 10% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

IN-PROGRESS

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214-741-7777
URS CORPORATION ID #3162

DART PROJECT

DART

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SCALE	AS SHOWN
DRAWN	D. KING
DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SWILEY
DATE	15 JUL 10

CONTRACT SHEET No. 61 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STORAGE AND MAINTENANCE TRACKS
SHEET 1 OF 2

CONTRACT	DWG No.	REV
	CC2-0036	

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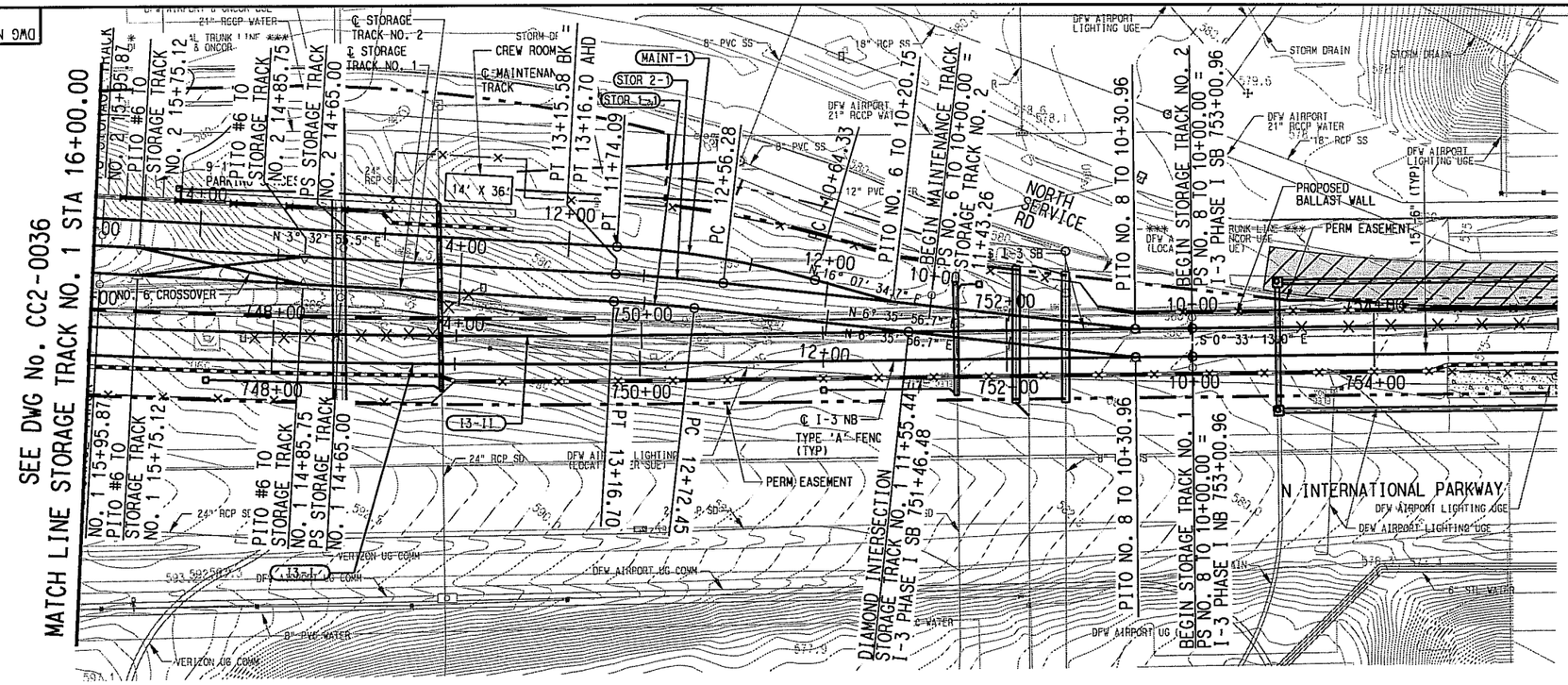
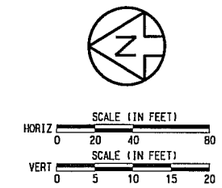
7/14/2010

DWG No. CC2-0037





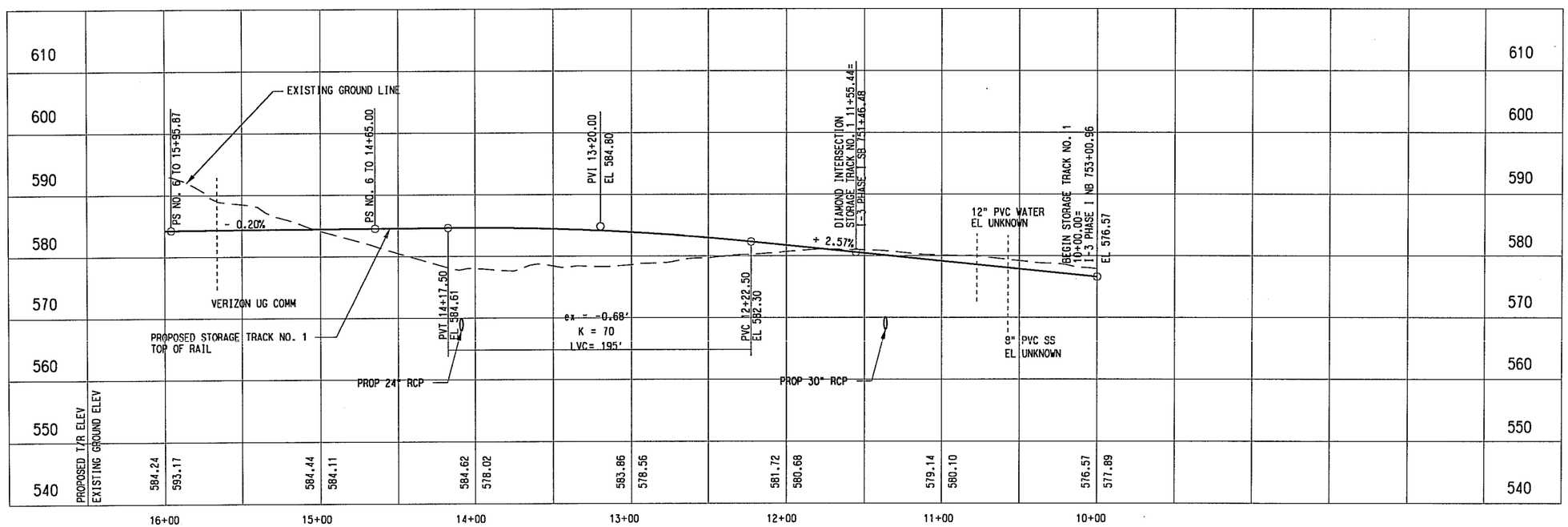
STOR 1-1		STOR 2-1		MAINT-1	
Rc=	831.09'	Rc=	1113.86'	Rc=	500.00'
Ls=	0.00'	Ls=	0.00'	Ls=	0.00'
Lc=	44.25'	Lc=	59.30'	Lc=	109.76'
Ea=	0.00"	Ea=	0.00"	Ea=	0.00"
Eu=	0.48"	Eu=	0.36"	Eu=	0.80"
V=	10 MPH	V=	10 MPH	V=	10 MPH

LEGEND

STREET/ALLEY/ DRIVE RECONSTRUCTION

NOTE:

1. SEE DWG. No. CC2-0001 FOR ADDITIONAL NOTES.
2. SEE DWG. No. CC2-0033 FOR I-3 NB & SB MAINLINE INFORMATION.
3. FINAL DESIGNER WILL NEED A DESIGN EXCEPTION FOR THE STORAGE FACILITY, DUE TO THE LOCATION IS NOT AT THE END OF THE LINE SECTION.
4. FINAL DESIGNER WILL NEED TO INCLUDE SAFETY MEASURES FOR STORAGE TRACKS SINCE STORAGE TRACKS SLOPE TOWARD MAIN LINES.



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REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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DESIGNED	R. THOMPSON
CHECKED	S. SASTRY/P. ZHAO
IN CHARGE	J. SMILEY
DATE	15 JUL 10

CONTRACT SHEET No. 62 OF 62

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION I-3 PHASE I

GUIDEWAY PLAN AND PROFILE
STORAGE AND MAINTENANCE TRACKS
SHEET 2 OF 2

CONTRACT	DWG No.	REV
	CC2-0037	

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7/14/2010