COTTON BELT REGIONAL RAIL SYSTEM
SEGMENT 2 BRIDGE & STREET MODIFICATIONS
MIDWAY ROAD BRIDGE (#22)
MIDWAY ROAD GRADE SEPARATED CROSSING

PRELIMINARY ENGINEERING - 30% DESIGN
OCTOBER 28, 2019

JACOBS

RECOMMENDED:

TASK MANAGER DATE

APPROVED:

PROJECT MANAGER DATE

DALLAS AREA RAPID TRANSIT

RECOMMENDED:

PROJECT MANAGER DATE

APPROVED:

AVP FACILITIES ENGINEERING DATE

IN-PROGRESS

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CHARLES E. HOOD, P.E. 61366
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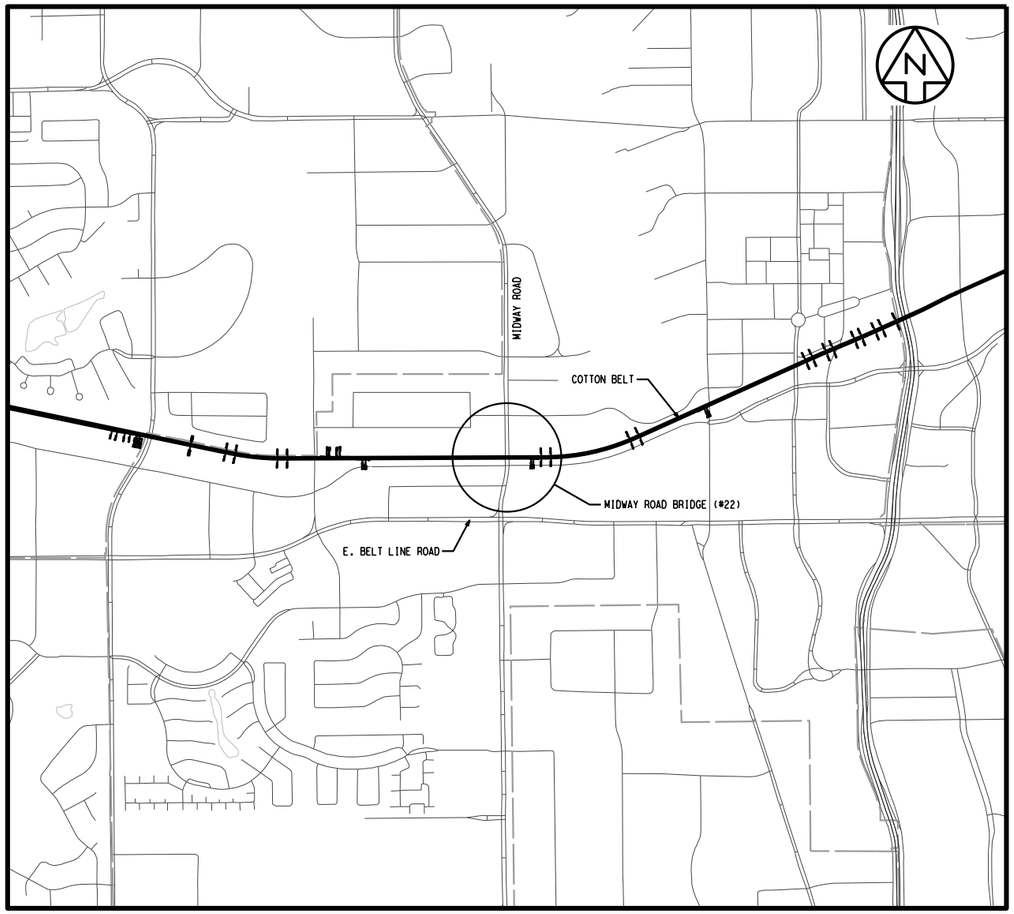
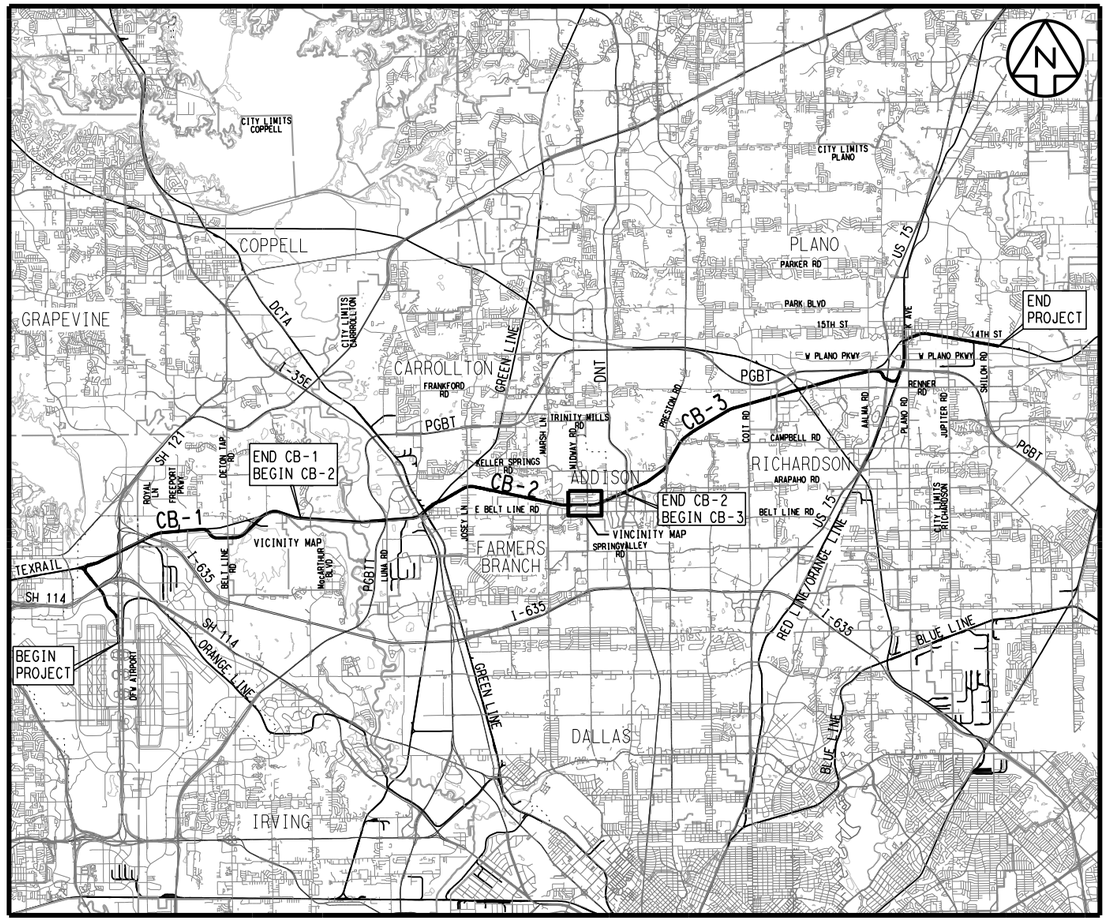
DWG No. GC1-2221

DWG No. GC1-2222



VICINITY MAP
NO SCALE



KEY MAP
DART RAIL TRANSIT SYSTEM
NO SCALE

COTTON BELT REGIONAL RAIL SYSTEM
SEGMENT 2 BRIDGE & STREET MODIFICATIONS
MIDWAY ROAD BRIDGE (#22)
MIDWAY ROAD GRADE SEPARATED CROSSING

NOT AN APPROVED DRAWING
PRELIMINARY 30% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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JACOBS
1999 BRYAN ST, SUITE 1200
DALLAS, TX 75201-3136
Phone: +1 (214) 638-0145
FIRM REGISTRATION No. F-2966

ARCHER WESTERN HERZOG

DART PROJECT

DART

CAES

SCALE	NO SCALE
DRAWN	K. CASTIANO
DESIGNED	M. KHAN
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CONTRACT SHEET No. 2 OF 11

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
MIDWAY ROAD BRIDGE (#22) & ROADWAY MODIFICATIONS
TITLE SHEET

CONTRACT	DWG No.	REV
C-2033270-01	GC1-2222	A

...\Bridge 22\CB02-GC1-2222.01k

10/25/2019
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DWG No. GC2-2221

INDEX OF DRAWINGS

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1	A	GC1-2221	COVER SHEET
2	A	GC1-2222	TITLE SHEET
3	A	GC2-2221	INDEX OF DRAWINGS SHEET 1 OF 1
4	A	GC3-0201	SYMBOLS
5	A	GC3-0202	ABREVIATIONS
BRIDGE: MIDWAY ROAD BRIDGE(#22)			
6	A	SC2-1501	LINE SECTION CB-2 MIDWAY ROAD BRIDGE (#22) PLAN AND ELEVATION SHEET 1 OF 2
7	A	SC2-1502	LINE SECTION CB-2 MIDWAY ROAD BRIDGE (#22) PLAN AND ELEVATION SHEET 2 OF 2
8	A	SC8-1516	(NOT INCLUDED IN 30% SET) LINE SECTION CB-2 MIDWAY ROAD BRIDGE (#22) FOUNDATION PLAN SHEET 1 OF 1
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ROADWAY DRAWINGS			
10	A	CC7-1101	LINE SECTION CB-2 MIDWAY ROAD MODIFICATIONS TYPICAL SECTIONS AND HORIZONTAL DATA SHEET 1 OF 1
11	A	CC4-1101	LINE SECTION CB-2 MIDWAY ROAD MODIFICATIONS PLAN AND PROFILE SHEET 1 OF 1

29-OCT-2019 11:57
CB02-GC2-2221.001

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DALLAS, TX 75201-3136
Phone: +1 (214) 638-0145
FIRM REGISTRATION No. F-2966

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DART PROJECT

DART®

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DRAWN	K. CASTIANO
DESIGNED	M. KHAN
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CAES

CONTRACT SHEET No. 3 OF 11

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
MIDWAY ROAD BRIDGE (#22) & ROADWAY MODIFICATIONS
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT	DWG No.	REV
C-2033270-01	GC2-2221	A

CB02-GC2-2221.001

DWG No. GC3-0201

SYMBOLS

- PROFILE GRADE LINE / ELEVATION CONTROL POINT
- DIRECTION OF FLOW
- C OR B CENTERLINE OR BASELINE
- FUTURE OR NOT IN CONTRACT
- ℄ CENTERLINE
- ℄ BASELINE
- ℄ PROPERTY LINE
- DIMENSION LINE CONTINUES
- MATCH LINE
- 510 CONTOUR LINE
- TRACK (TRANSIT) CENTER LINE
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- STRUCTURE OUTLINE
- RAILROAD TRACKS
- CO CLEANOUT
- MH MANHOLE
- SIDEWALK AND MISC. LINES
- DROP INLET, CATCH BASIN OR DRAIN
- CULVERT HEADWALLS
- x 543.5 SPOT ELEVATION
- CURB LINE
- EXISTING BARRIER/RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED BALLAST WALL
- NOISE IMPACT AREA
- GUARD RAIL
- HAND RAIL
- UNPAVED ROAD
- CONCRETE GUARD FENCE
- VEGETATION LINE
- (T) TREE
- (S) SHRUB
- 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_{CAC} 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)
- WWMH WASTEWATER MANHOLE
- SMH 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
- EXISTING TRAFFIC SIGN
- PROPOSED TRAFFIC SIGN
- POLE GUY AND ANCHOR
- TRANSMISSION LINE TOWER
- TRAFFIC CONTROL GATE
- CANTILEVERED RAILROAD CROSSING SIGNAL
- TEST BORING LOCATION
- (O/H) OVERHEAD LINES
- (O/H) E OVERHEAD ELECTRIC LINES
- POINT NUMBER DART PRIMARY CONTROL POINT
- OTHER SURVEY MONUMENTS

- T (UG) UNDERGROUND TELEPHONE LINE
- UG(E) UNDERGROUND ELECTRIC LINE
- OH 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
- DITCH PROPOSED SPECIAL DITCH
- STM STORM DRAIN/CULVERT
- UD UNDERDRAIN
- WW WASTEWATER
- 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, CONTROL MONUMENT OR MARKERS
- EXISTING INTERSECTION OF PROPERTY LINES
- INTERSECTION OF PROPOSED DART RIGHT-OF-WAY LINES
- PROPOSED DART RIGHT-OF-WAY MONUMENT

- POINT OF SWITCH
- LEFT HAND TURNOUT
- RIGHT HAND TURNOUT
- DERAIL SWITCH
- CENTERLINE
- GAUGE LINE
- LEFT HAND CURVE
- RIGHT HAND CURVE
- SINGLE CROSSOVER,LH SHOWN
- CONTINUOUS WELDED RAIL
- PI/PVI/PITO
- NON-INSULATED JOINT
- INSULATED RAIL JOINT-BOTH RAILS
- INSULATED RAIL JOINT - L RAIL
- INSULATED RAIL JOINT - R RAIL
- INSULATED RAIL JOINT
- RESTRAINING RAIL
- PRE-CURVED RAIL
- STANDARD RAIL,GIRDER RAIL
- PREMIUM RAIL
- (F) SWITCH NUMBERING "F" INDICATES FUTURE
- 136#/115# TRANSITION RAIL
- NE3-A CURVE NUMBER
- BLUE FLAG
- BUMPING POST
- EQUILATERAL TURNOUT
- POWER POINT POLE
- FH PROPOSED FIRE HYDRANT
- REMOVE AND REPLACE MANHOLE
- RAILROAD GATE/CANTILEVER LOCATION
- HW_{100} HEADWATER ELEVATION
- TW_{100} TAILWATER ELEVATION
- CORROSION CONTROL TEST STATION
- (235) CONDUIT RUN NUMBER

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Phone: +1 (214) 638-0145
FIRM REGISTRATION No. F-2966

ARCHER WESTERN HERZOG

DART PROJECT

DART®

SCALE	NO SCALE
DRAWN	K. CASTIANO
DESIGNED	V. ESCANO
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CAES

CONTRACT SHEET No. 4 OF 11

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

SYMBOLS

CONTRACT	DWG No.	REV
C-2033270-01	GC3-0201	A

...\Jacobs\Bridge 22\CB02-GC3-0201

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DWG No. GC3-0202

A	AREA
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABUT	ABUTMENT
ABV	ABOVE
ABVNT	ABOVE NET
AC	ACRE
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CEMENT PIPE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
A/G	AT GRADE
AGG	AGGREGATE
AHD	AHEAD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC
AISI	AMERICAN IRON AND STEEL INSTITUTE
AL	ALUMINUM
ALT	ALTERNATE
ANC	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
APP	APPROACH
APT	AUTOMATED PERSONAL TRANSIT
ARCH.	ARCHITECT, ARCHITECTURE
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTAINANCE OF WAY ASSOCIATION
ASA	AMERICAN STANDARDS ASSOCIATION
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATR	ABOVE TOP OF RAIL
ATT/D	ATT (TEXAS)
ATT/TCG	ATT (LOCAL SERVICE)
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
BAS	BRIDGE APPROACH SLAB
B/B	BACK TO BACK
B/C	BACK OF CURB
BCCP	BITUMINOUS COATED CORRUGATED PIPE
BD	BOARD, BALLAST DRAIN
BEG.	BEGINNING
BF	BOTH FACES
BH	BORED HOLE
BIT.	BITUMINOUS
BJF	BITUMINOUS JOINT FILLER
BK	BACK
BKF	BACKFILL
BKWL	BACKWALL
B/L	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BEAM
B.M.	BENCH MARK
BOT	BOTTOM
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
BPA	BRIDGE PROTECTIVE ASSEMBLY
BRG	BEARING
BRKT	BRACKET
BS	BOTH SIDES
B/S	BOTTOM OF SLOPE
BTWN	BETWEEN
BVL	BEVELED
BW	BOTH WAYS, BOTTOM WIDTH
C_X_	AMERICAN STANDARD CHANNEL, _X_= SIZE BY WEIGHT
C	RUNOFF COEFFICIENT
CAB.	CABINET
CANT	CANTILEVER
CAT.	CATENARY
CATF	CATENARY FOUNDATION
CATP	CATENARY POLE
CB	CATCH BASIN
C	RUNOFF COEFFICIENT
CC	CENTER OF CURVE
CCOM	CONSOLIDATED COMMUNICATIONS
C TO C	CENTER TO CENTER
CEM	CEMENT
CF	CUBIC FEET
CFL	COUNTERFLASHING
CFS	CUBIC FEET PER SECOND
CG	CONCRETE GUTTER
C & G	CURB AND GUTTER
C/G	CORNER GUARD
CHAM	CHAMFER
CHD	CHORD
CHDPE	CORRUGATED HIGH DENSITY PLOYETHYLENE
CI	CAST IRON, CURB INLET
CIH	CENTRAL INSTRUMENT HOUSE
CIP	CAST-IN-PLACE, CAST IRON PIPE
CJ	CONSTRUCTION JOINT
L	CENTERLINE
CL	CLASS
C/L	CURB LINE
CLF	CHAIN LINK FENCE
CLR	CLEARANCE, CLEAR
CMB	CHANGEABLE MESSAGE BOARD
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COD	CITY OF DALLAS
COI	CITY OF IRVING
COL	COLUMN
COMB	COMBINATION
COMM	COMMUNICATIONS
COMP	COMPRESSED, COMPRESSIVE
CON	CONSTRUCTION LINES
CONC	CONCRETE
CONN	CONNECT, CONNECTOR, CONNECTION
CONST	CONSTRUCTION, CONSTRUCT
CONT	CONTINUATION, CONTINUOUS
CORR	CORRUGATED
CRS	COLD ROLLED STEEL
CS	CURVE TO SPIRAL POINT
CSMH	CONTROL SYSTEMS MANHOLE
CTB	CEMENT TREATED BASE, CONCRETE TRAFFIC BARRIER
CTR	CENTER
CULV	CULVERT
CWR	CONTINUOUS WELDED RAIL
CY	CUBIC YARD
D, DEG	DEGREE OF CURVE
DART	DALLAS AREA RAPID TRANSIT
DBL	DOUBLE
DCURD	DALLAS COUNTY UTILITY & RECLAMATION DISTRICT
DEFL	DEFLECTION
DEG	DEGREE
DEP	DEPRESSED
DET	DETAIL
DFW	DALLAS/FORT WORTH
DF	DIRECT FIXATION
DG	DOWNGUY
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DIM.	DIMENSION
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DP	DAMPPROOFING
DPL	DALLAS POWER & LIGHT COMPANY
DR	DOOR, DRIVE, DERAILMENT LOAD
DRN	DRAIN, DRAINAGE
DRWY	DRIVEWAY
DS	DOWNSPOUT
D.S.	DRILLED SHAFT
DWG	DRAWING
DWU	DALLAS WATER UTILITY
E	EXPANSION BEAM END, EAST, ELECTRIC
Eo	SUPERELEVATION IN INCHES
EA	EACH
EB	EAST BOUND
EBFR	EAST BOUND FRONTAGE ROAD
EBML	EAST BOUND MAINLINE
EF	EACH FACE
EFC	EXPOSED FINISH CONCRETE
E.G.	FOR EXAMPLE
EL. ELEV	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EMBED	EMBEDMENT
EMH	ELECTRICAL MANHOLE
ENCSMT	ENCASEMENT
E/P, EOP	EDGE OF PAVEMENTS
E/P	EDGE OF PAVEMENTS
EQ	EQUAL
EQUIV	EQUIVALENT
E/S	EDGE OF SHOULDER
ESMT	EASEMENT
EST	ESTIMATE
Es	EXTERNAL DISTANCE OF SPIRAL CURVE
Eu	SUPERELEVATION UNBALANCED IN INCHES
ETC	ET CETERA
EW	EACH WAY
EWEF	EACH WAY, EACH FACE
Ex, EXIST.	EXISTING
EXP	EXPANSION
EXPJT	EXPANSION JOINT
EXPO	EXPOSED
EXT	EXTERIOR
EXPWY	EXPRESSWAY
F	FIXED BEAM END, FAHRENHEIT
F TO F	FACE TO FACE
FBR OPT	FIBER OPTIC
F/C	FACE OF CURVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR, FAR FACE
FFBW	FRONT FACE BACKWALL
FG	FINISH GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FIN.	FINISH
FL	FLOW LINE
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FOF	FACE OF FINISH
FRWY	FREEWAY
FS	FAR SIDE
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNISH
FUT	FUTURE
FWD	FORWARD
FW	FORT WORTH
G	GAS (NATURAL)
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GROUND BOX
GEC	GENERAL ENGINEERING CONSULTANT
GEN	GENERAL
GI	GALVANIZED IRON, GRATE INLET
G/L	GROUND LINE
GM	GAS METER
GND	GROUND
GP	GAUGE PLATE, GRAND PRAIRIE
GR	GRADE
G/R	GUARD RAIL
GRAN	GRANITE, GRANULAR
G/R PL	GUARD RAIL PLATE
GRTG	GRATING
GV	GAS VALVE
GV	GATE VALVE
GVL	GRAVEL
H	HEIGHT
H.C.	HANDICAP
H/D	HEAVY DUTY
HDWL	HEADWALL
HEX	HEXAGONAL
HH	HAND HOLE
HMAC	HOT MIX ASPHALTIC CONCRETE
HMLP	HIGH MAST LIGHT POLE
HORIZ	HORIZONTAL
HP_X_	BEARING PILE SHAPE, _X_ = SIZE BY WEIGHT
HPT	HIGH POINT
HR	HOUR
HSB	HIGH STRENGTH BOLT
HSS_X_X_	HOLLOW STRUCTURAL SHAPE X_(X_) = DIMENSION X DIMENSION X THICKNESS
HSS	HIGH STRENGTH STEEL
HWL	HIGH WATER LINE
HWY	HIGHWAY
I	RAINFALL INTENSITY
ICLRT	INTERMEDIATE CAPACITY LIGHT RAIL TRANSIT
ID	INSIDE DIAMETER
IF.	INSIDE FACE
IH	INTERSTATE HIGHWAY
IJ	INSULATED JOINT
IN.	INCH, INCHES
INC	INCORPORATED
INCL	INCLUDE
INT	INTERIOR
INV	INVERT
IRR.	IRRIGATION
ISF	INSIDE FACE
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
JT	JOINT
K	KIP, RATE OF VERTICAL CURVATURE
KV	KILOVOLT
L	TOTAL CURVE LENGTH, LENGTH, LEFT (DEFLECTION)
LB	POUND
LC	TOTAL LENGTH OF CIRCULAR CURVE
LF	LINEAR FEET
LG	LENGTH, LONG
LH	LEFT HAND
LIN	LINEAR, LINEAL
LL	LIVE LOAD
LN	LANE
LOC	LOCATION
LONG.	LONGITUDINAL
LPT	LOW POINT
LRT	LIGHT RAIL TRANSIT
LTD	LIMITED
Ls	TOTAL LENGTH OF SPIRAL
LSG	LONE STAR GAS
LT	LEFT
LTL	LINTEL
LVC	LENGTH OF VERTICAL CURVE
LVL	LEVEL
LVL 3	LEVEL (3) COMMUNICATION, INC
M_X_	MISCELLANEOUS PILE SHAPE, _X_ = SIZE BY WEIGHT
MATL	MATERIAL
MAX	MAXIMUM
MBGR	METAL BEAM GUARD RAIL
MBR	MEMBER
MC_X_	MISCELLANEOUS CHANNEL, _X_ = SIZE BY WEIGHT
MCI	MCI TELECOMMUNICATIONS
MEAS	MEASURE
MEMB	MEMBRANE
MET.	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINUTES, MINIMUM
MISC	MISCELLANEOUS
MKT	MISSOURI-KANSAS-TEXAS RAILROAD COMPANY
ML	MAINLINE
MOD	MODULAR, MODIFIED
MON	MONUMENT
MSE	MECHANICALLY STABILIZED EARTH
MT	MOUNTED
MTG	MOUNTING
MULT	MULTIPLE
N	NORTH
N/A	NOT APPLICABLE
NAT	NATURAL
NB	NORTHBOUND
NBFR	NORTHBOUND FRONTAGE ROAD
NBML	NORTHBOUND MAINLINE
NCTCOG	NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS
NG	NAUTRAL GROUND
NF	NEAR FACE
NIC	NOT IN CONTRACT
No.	NUMBER
Nos	NUMBERS
NOM	NOMINAL
NS	NEAR SIDE
N/S	NORTH/SOUTH
NTMWD	NORTH TEXAS MUNICIPAL WATER DISTRICT
NTS	NOT TO SCALE
NTTA	NORTH TEXAS TOLLWAY AUTHORITY
OC	ON CENTERS
OCEW	ON CENTER EACH WAY
OCS	OVERHEAD CATENARY SYSTEM
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFF	OFFSET
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
O TO O	OUT TO OUT
OPNG	OPENING
OPP	OPPOSITE
ORD	ORDINATE
PB	PULLBOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
P/C	PRECAST
PED	PEDESTRIAN
PEJ	PREFORMED EXPANSION JOINT
PERF	PERFORATED
PERM	PERMANENT
PERMISS	PERMISSIBLE
PERP	PERPENDICULAR
PF	POINT OF FROG
PG	PROFILE GRADE, PAGE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PITO	POINT OF INTERSECTION - TURNOUT
PL	PLATE, PROPERTY LINE
PLAT.	PLATFORM
PMDF	PERMANENT METAL DECK FORMS
PMTE	PUBLIC MASS INTERSECTION EASEMENT
P/O	PART OF
POB	POINT OF BEGINNING
POC	POINT OF CURVE
POE	POINT OF ENDING
POLY	POLYETHYLENE
POS	POINT OF SPIRAL
POT	POINT OF TANGENT
PP	POWER POLE
PREM	PREMOLDED
PROJ.	PROJECTION
PROP	PROPOSED
PROT	PROTECTION
PRVT	PRIVATE
P/S	PRE-STRESSED
PS	POINT OF SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT
PTD	PAINTED
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVP	POLYVINYL CHLORIDE PIPE
PVC	POLY VINYL CHLORIDE, POINT OF VERTICAL CURVE
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL CURVE
Q	STORM WATER DISCHARGE
QTY	QUANTITY
R	RADIUS
R1	RIGHT (DEFLECTION)
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX CULVERT
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REFL	REFLECTIVE
REINF	REINFORCE, REINFORCED, REINFORCING, REINFORCEMENT
REQD	REQUIRED
REV	REVISE, REVISION
RH	RIGHT HAND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RAILROAD
RSC	RAILROAD SIGNAL CABLE
RT	RIGHT
S	SOUTH, SLOPE
S & I	SERVICE & INSPECTION
S_X_	I SHAPE, _X_ = SIZE BY WEIGHT
SB	SOUTHBOUND
SBFR	SOUTHBOUND FRONTAGE ROAD
SBML	SOUTHBOUND MAINLINE
SC	SPIRAL TO CURVE
SCHED	SCHEDULE
SCR	SCREW
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDWK	SIDEWALK
SEJ	SEALED EXPANSION JOINT
SEL	SELECT
SG	SWITCH GEAR
SH	STATE HIGHWAY
S/H	STRUCTURAL HEIGHT
SHLD	SHOULDER
SHT	SHEET
SIG	SIGNAL
SIM	SIMILAR
SL	STREET LIGHT, SLAB
SLV	SLEEVE
SM	SMOOTH
SMH	SEWER MANHOLE
SP	SOUTHERN PACIFIC TRANS. CORP.
SPC	SPACE
SPEC(S)	SPECIFICATION, SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET, SPIRAL TO TANGENT POINT
STA	STATION, STATIONING
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STM	STORM
STRGTH	STRENGTH
STRUCT	STRUCTURE, STRUCTURAL
SURF.	SURFACE
SWR	SEWER
SY	SQUARE YARD
SYM	SYMMETRICAL
SYS	SYSTEM
T	LENGTH OF TANGENT, TELEPHONE
Tc	TIME OF CONCENTRATION
T(UG)	TELEPHONE (UNDERGROUND)
T/	TOP OF
T & B	TOP AND BOTTOM
TBM	TEMPORARY BENCH MARK
TBR	TO BE REMOVED
T/C	TOP OF CURB
T/D	TOP OF DITCH
TCO	TERMINAL CLEANOUT
TEM	TEMPORARY
TEMP	TEMPERATURE
TEN	TENSION
TES	TRACTION ELECTRIFICATION SYSTEM
TG	TELEGRAPH, TOP OF GRADE
TGMH	TELEGRAPH MANHOLE
THRU	THROUGH
THK	THICK, THICKNESS
TL	TRAFFIC LIGHT
TMH	TELECOM MANHOLE
TO	TURNOUT
TOC	TOP OF CONCRETE
TOD	TRANSIT ORIENTED DEVELOPMENT
TP	TOP OF PAVEMENT
TPL	TEXAS POWER & LIGHT
TPSS	TRACTION POWER SUBSTATION
T/R	TOP OF RAIL
TRA	TRINITY RIVER AUTHORITY
TRAF SIG	TRAFFIC SIGNAL
TRK	TRACK
TRNSF	TRANSFORMER
TS	TANGENT TO SPIRAL
T/S	TOP OF SLOPE
T/STL	TOP OF STEEL
TUE	TEXAS UTILITIES ELECTRIC COMPANY
T/W	TOP OF WALL
TxDOT	TEXAS DEPARTMENT OF TRANSPORTATION
TXU	TEXAS UTILITY ELECTRIC
TWC	TIME WARNER CABLE
TYP	TYPICAL
TY	TYPE
TWT	TIME WARNER TELECOM
UD	UNDERDRAIN
UG	UNDERGROUND
UGC	UNDERGROUND CABLE
UGE	UNDERGROUND ELECTRIC
UNO	UNLESS NOTED OTHERWISE
UP	UNION PACIFIC RAILWAY
US	UNITED STATES
USC&GS	U.S. COAST & GEODETIC SURVEY
USGS	UNITED STATES GEOLOGICAL SURVEY
UTIL	UTILITY
V	VELOCITY
VAR	VARIABLE, VARIES
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VLT	VAULT
VOL	VOLUME
VRZ/B	VERIZON BUSINESS
VRZ	VERIZON
W	WEST, WATER
W/	WITH
WB	WESTBOUND
WBFR	WESTBOUND FRONTAGE ROAD
WBML	WESTBOUND MAINLINE
W_X_	WIDE FLANGE SHAPE, _X_ = SIZE BY WEIGHT
WI	WROUGHT IRON
W/O	WITHOUT
WL	WATER LINE
WM	WATER METER
WP	WORK POINT
W/P	WEATHERPROOF
WS	WATER SURFACE
WT	WATERTIGHT, WEIGHT
WTR	WATER
WTRPRF	WATERPROOF
WV	WATER VALVE
WW	WASTEWATER
WWF	WELDED WIRE FABRIC
WSEL	WATER SURFACE ELEVATION
X-ING	CROSSING
X-SECT	CROSS SECTION
XO	XO COMMUNICATIONS
360	360 NETWORKS

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PRELIMINARY 30% DESIGN

CONTRACT SHEET No. 5 OF 11

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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ARCHER WESTERN HERZOG

DART PROJECT

DART®

SCALE	NO SCALE
DRAWN	K. CASTIANO
DESIGNED	V. ESCANO
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CAES

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

ABBREVIATIONS

CONTRACT	DWG No.	REV
C-2033270-01	GC3-0202	A

...\Jacobs\Bridge 22\CB02-GC3-0202

10/25/2019
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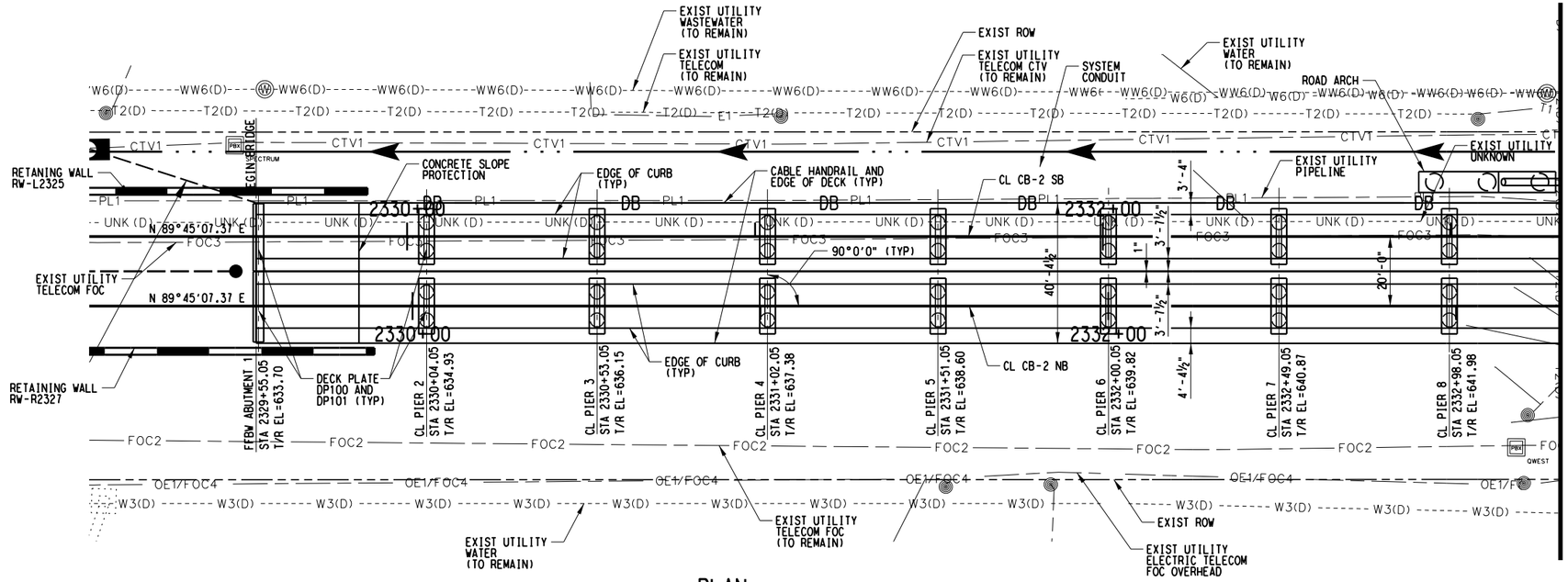
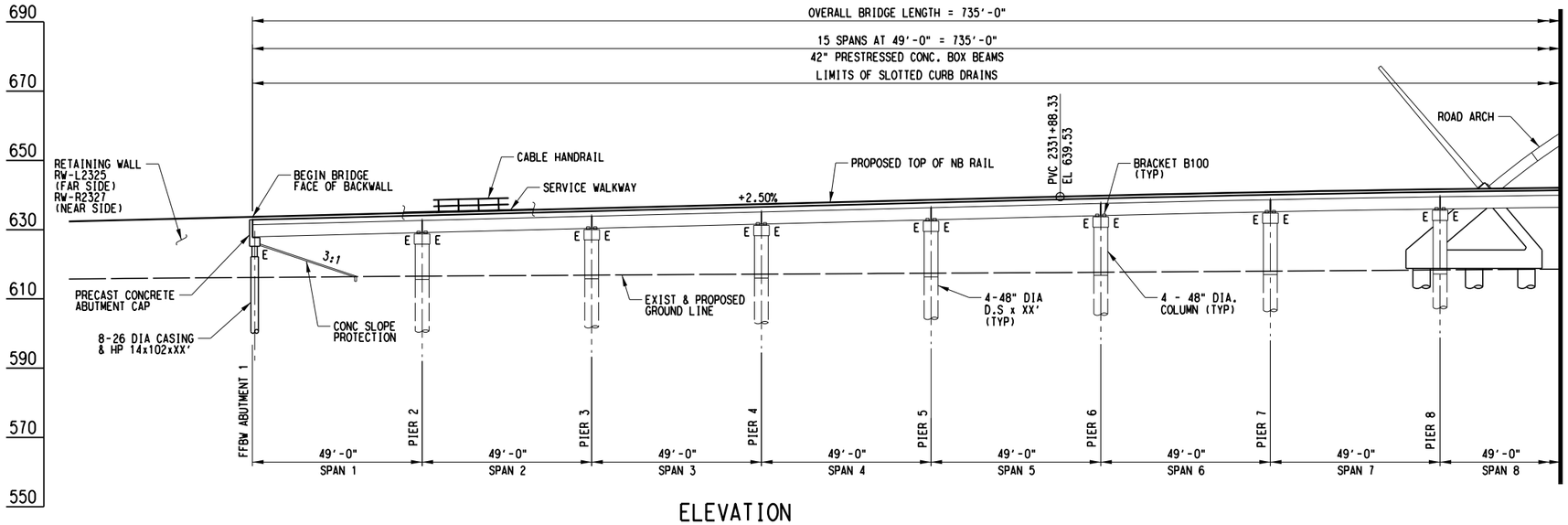
untitled
Default

DWG No. SC2-1501



PLAN

SCALE: 1"=20'



ELEVATION

SCALE: 1"=20'

SCALE (IN FEET)
0 10 20 40

NOTES:

1. SPAN LENGTH STATIONING AND VERTICAL PROFILE ARE SHOWN ALONG THE CENTERLINE OF THE CB-2 NB TRACK. TOP OF LOW RAIL IS THE CONTROL AND PROFILE GRADE LINE.
2. FOR SERVICE WALKWAY DETAILS, SEE STANDARD DRAWING NO. SS9-0017.
3. FOR CABLE HANDRAIL DETAILS, SEE STANDARD DRAWING NOS. SS9-0029 & SS9-0030.
4. FOR UTILITY LOCATIONS AND RELOCATION SEE UTILITY DRAWINGS.
5. FOR DECK PLATE DETAILS, SEE STANDARD DRAWING NO. SS9-0022. DECK PLATE IS APPLICABLE AT ALL ABUTMENTS AND INTERIOR PIERS.
6. FOR BALLASTED DECK WATERPROOFING, EXP JOINT, AND DRAINAGE DETAILS, SEE STANDARD DRAWING NOS. SS9-0020 & SS9-0021.
7. FOR SYSTEMS ELEMENTS, SEE SYSTEMS PLANS.
8. FOR EXACT LOCATIONS OF BORING LOGS AND SOIL PARAMETERS, SEE GEOTECHNICAL REPORT.
9. DESIGN LIVE LOAD IS COOPER E80.
10. AT ABUTMENTS FOUNDATION CASING SHALL BE PERMANENT. AT THE PIERS THE FOUNDATION CASING MAY BE TEMPORARY OR PERMANENT AT THE CONTRACTORS OPTION. FOR CASING CONCURRENT OR THE SHAFT CONCRETE WITHIN THE ACTIVE FREIGHT ZONES.
11. FOR SLOPE PROTECTION, SEE STANDARD DRAWING NO. SS9-0037.
12. FOR NOTES AND STANDARDS NOT SHOWN, SEE GENERAL NOTES AND STANDARD PACKAGE.
13. SEE PROTECTION ASSEMBLY AND CLEARANCE SIGN STANDARD DRAWING NO. SS9-0014 FOR BMCS & BPA DETAILS.
14. "E" ON THE ELEVATION VIEW REPRESENTS AN EXPANSION BEARING.
15. FOR GUARDRAIL LIMITS AND LOCATIONS SEE TRACK GUIDEWAY DRAWINGS.
16. FOR SLOTTED DRAIN WINDOW DETAILS SEE DRAWING NO. SSX-XXXX.

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ARCHER WESTERN HERZOG

DART PROJECT

DART

SCALE	1" = 20'-0
DRAWN	K. CASTIANO
DESIGNED	M. KHAN
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CAES

CONTRACT SHEET No. 6 OF 11

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
MIDWAY ROAD BRIDGE (#22)
PLAN AND ELEVATION
SHEET 1 OF 2

CONTRACT	DWG No.	REV
C-2033270-01	SC2-1501	A

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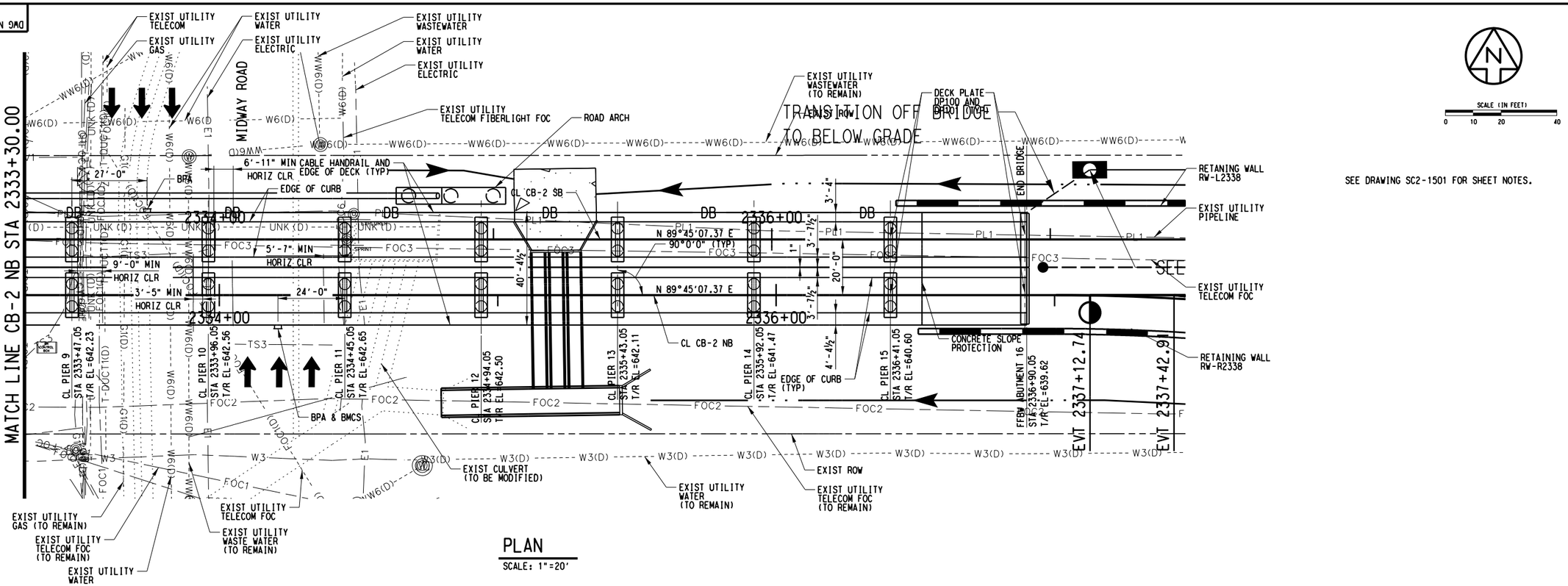
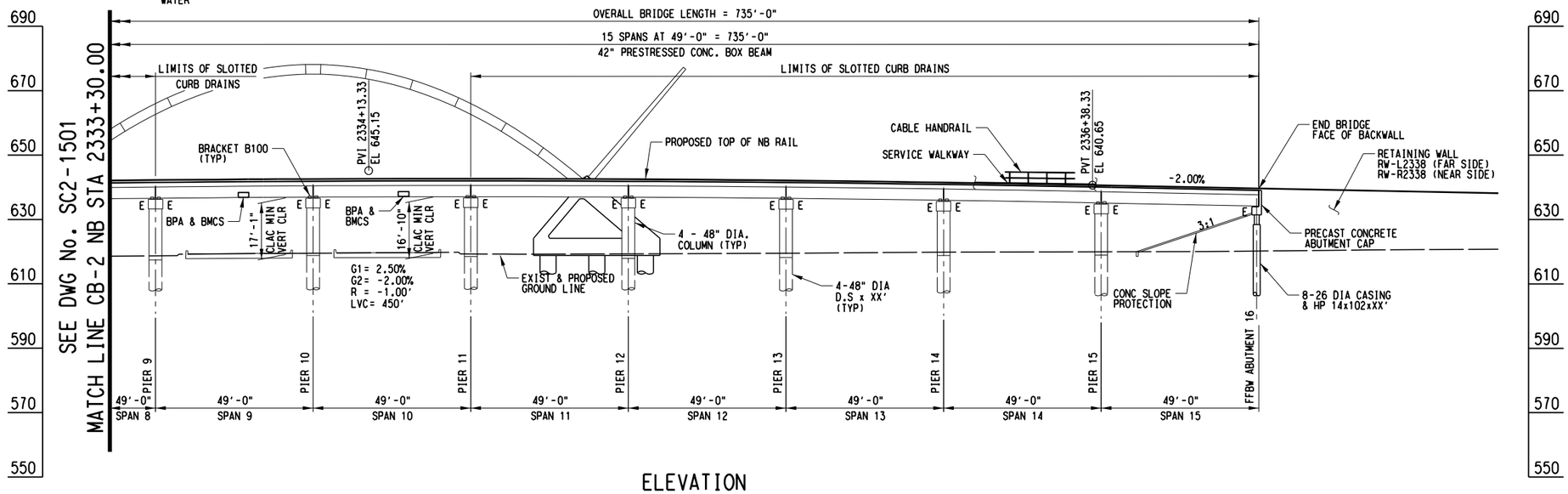
DWG No. SC2-1502



PLAN

SCALE: 1"=20'

SEE DRAWING SC2-1501 FOR SHEET NOTES.



ELEVATION

SCALE: 1"=20'

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PRELIMINARY 30% DESIGN

CONTRACT SHEET No. 7 OF 11

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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FIRM REGISTRATION No. F-2966

ARCHER WESTERN HERZOG

DART PROJECT

DART

SCALE	1" = 20'-0
DRAWN	K. CASTIANO
DESIGNED	N. KHAN
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CAES

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
MIDWAY ROAD BRIDGE (#22)
PLAN AND ELEVATION
SHEET 2 OF 2

CONTRACT	DWG No.	REV
C-2033270-01	SC2-1502	A

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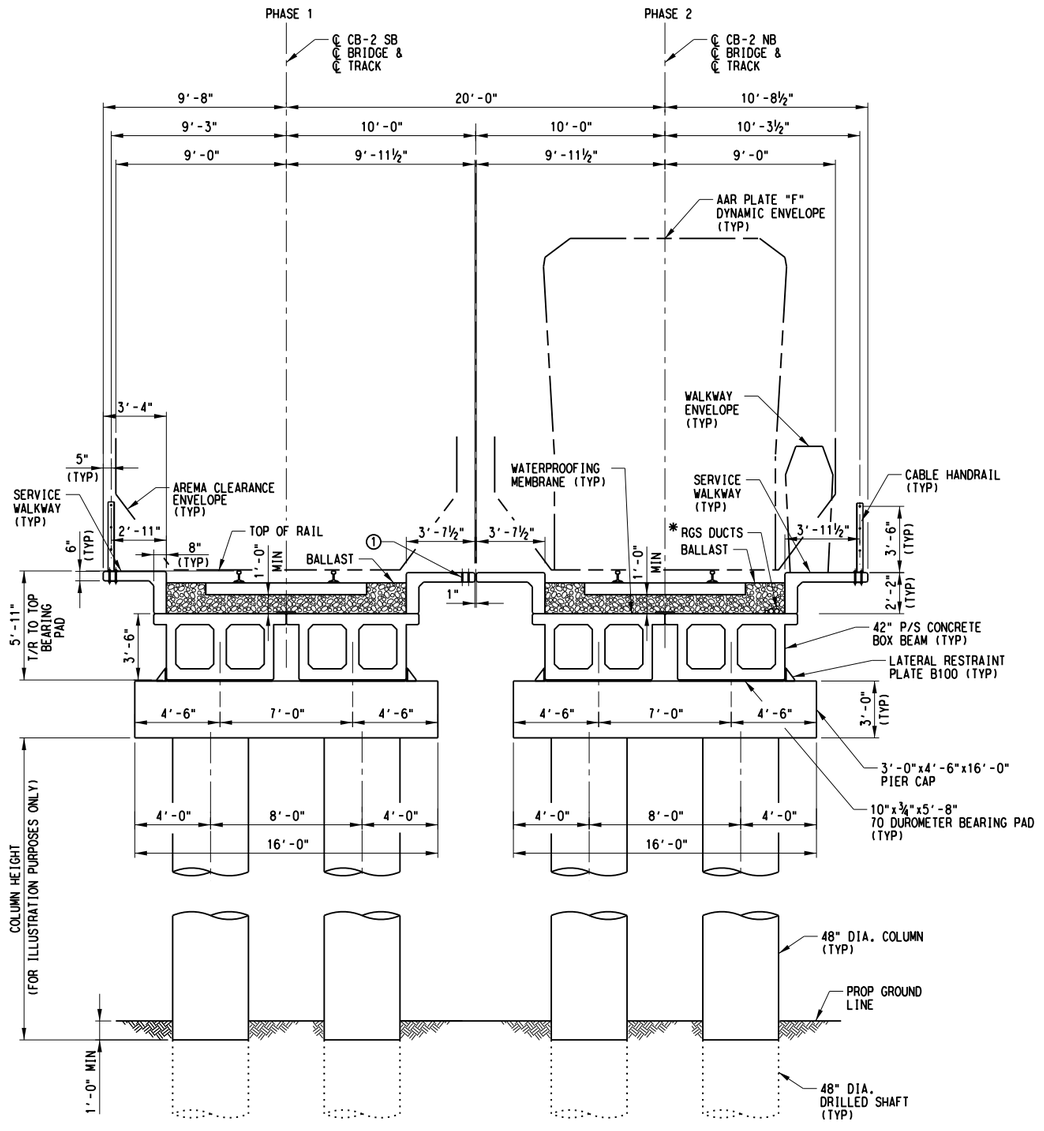
DWG No. SC8-1501



TYPICAL SECTIONS
(ALL PIERS)

① FOR TEMPORARY CABLE HANDRAIL PLACEMENT HOLES DUE TO PHASING SEE STANDARD DRAWING NO. SS9-0017 AND SS9-0018. FOR CABLE HANDRAIL CONNECTION DETAILS SEE STANDARDS DRAWING NO. SS9-0027 THROUGH SS9-0030.

* FO CONDUIT MAY ALSO BE LINE BORED AT CONTRACTOR'S OPTION.

CAP AND COLUMN SIZE ARE PRELIMINARY AND ARE SUBJECT TO CHANGE

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PRELIMINARY 30% DESIGN

REV	AMEND	CR	DATE	DESCRIPTION	BY	ENG	CHK	APP

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ARCHER WESTERN HERZOG

DART PROJECT

DART®

SCALE	⅛" = 1'-0
DRAWN	K. CASTIANO
DESIGNED	M. KHAN
CHECKED	J. MORRIS
IN CHARGE	C. HOOD
DATE	28 OCT 19

CAES

CONTRACT SHEET No. 9 OF 11

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
MIDWAY ROAD BRIDGE (#22)
TYPICAL SECTION
SHEET 1 OF 1

CONTRACT	DWG No.	REV
C-2033270-01	SC8-1501	A

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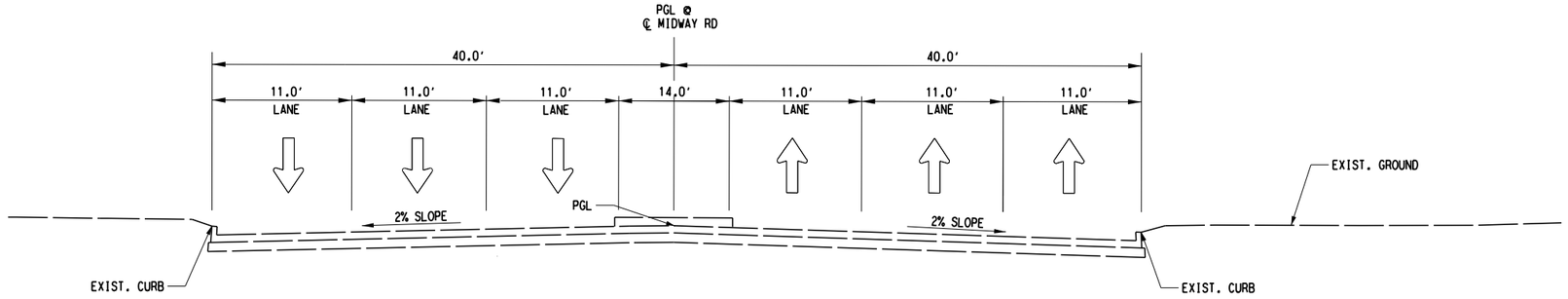
DWG No. CC7-1101



MIDWAY ROAD EXISTING TYPICAL SECTION

NOT TO SCALE

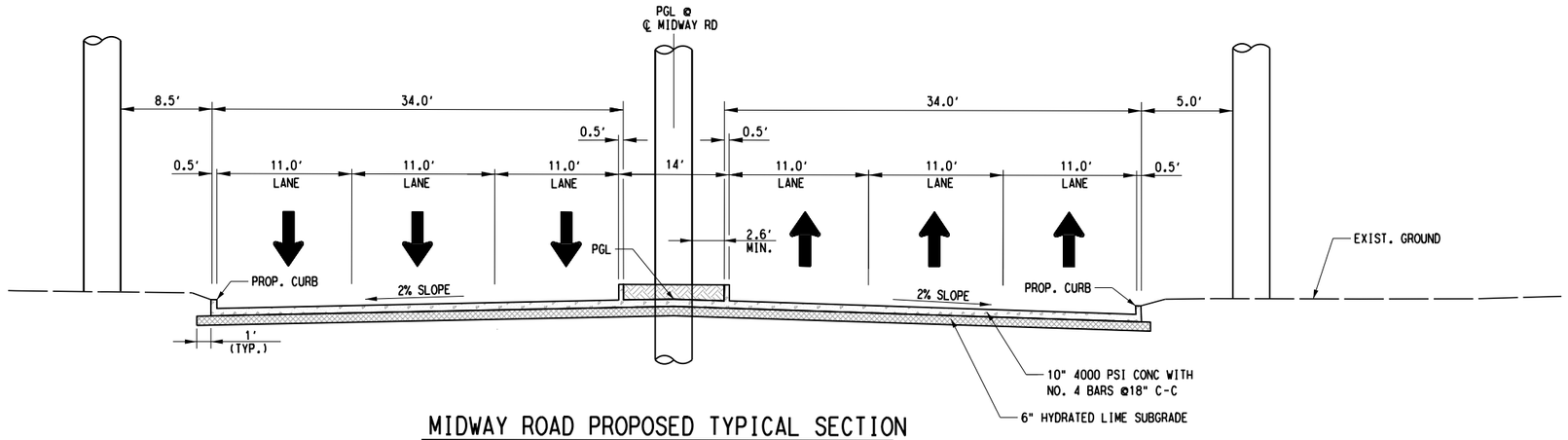
STA 100+78.62 TO STA 100+93.07 EXISTING MEDIAN
STA 100+93.07 TO STA 101+06.25 NO MEDIAN
STA 100+78.62 TO STA 101+20.53 EXISTING MEDIAN

NOTES:

1. SEE TOWN OF ADDISON PAVING DETAILS SD-P06 FOR CURB AND GUTTER DETAILS.
2. SEE TOWN OF ADDISON PAVING DETAIL SD-P14 FOR MEDIAN NOSE DIMENSIONS AN INSTALLATION DETAILS.
3. EXISTING PAVEMENT STRUCTURE IS ASSUMED TO CORRESPOND WITH THE TOWN OF ADDISION STANDARD CONSTRUCTION DETAILS FOR PAVING WHICH CALL FOR A 10" 4000 PSI CONCRETE WITH #4 BARS AT 18" SPACING CENTER TO CENTER WITH A 6" HYDRATED LIME SUBGRADE.

CONSTRUCTION LIMITS FALL ENTIRELY WITHIN DART CORRIDOR.

HORIZONTAL ALIGNMENT DATA						
Alignment Name: MIDWAY RD						
DESCRIPTION:						
POINT TYPE	STATION	NORTHING	EASTING	RADIUS	LENGTH	TANGENT
START	100+00.00	7035831.9813	2478411.4388			
HPI	102+25.00	7036056.9511	2478407.7505			
Tangential Direction: N00°56'21.37"W						
Tangential Length: 225.000						



MIDWAY ROAD PROPOSED TYPICAL SECTION

NOT TO SCALE

STA 100+78.62 TO STA 101+20.53

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15443 KNOLL TRAIL DRIVE, SUITE 140
DALLAS, TX 75248
Phone: +1 (214) 466-7870
FIRM REGISTRATION No. F-10997

ARCHER WESTERN HERZOG

DART PROJECT

DART®

SCALE	NO SCALE
DRAWN	R. KPOCHAN
DESIGNED	R. KPOCHAN
CHECKED	A. SULLIVAN
IN CHARGE	D. KELLY
DATE	30 SEP 19

CAES

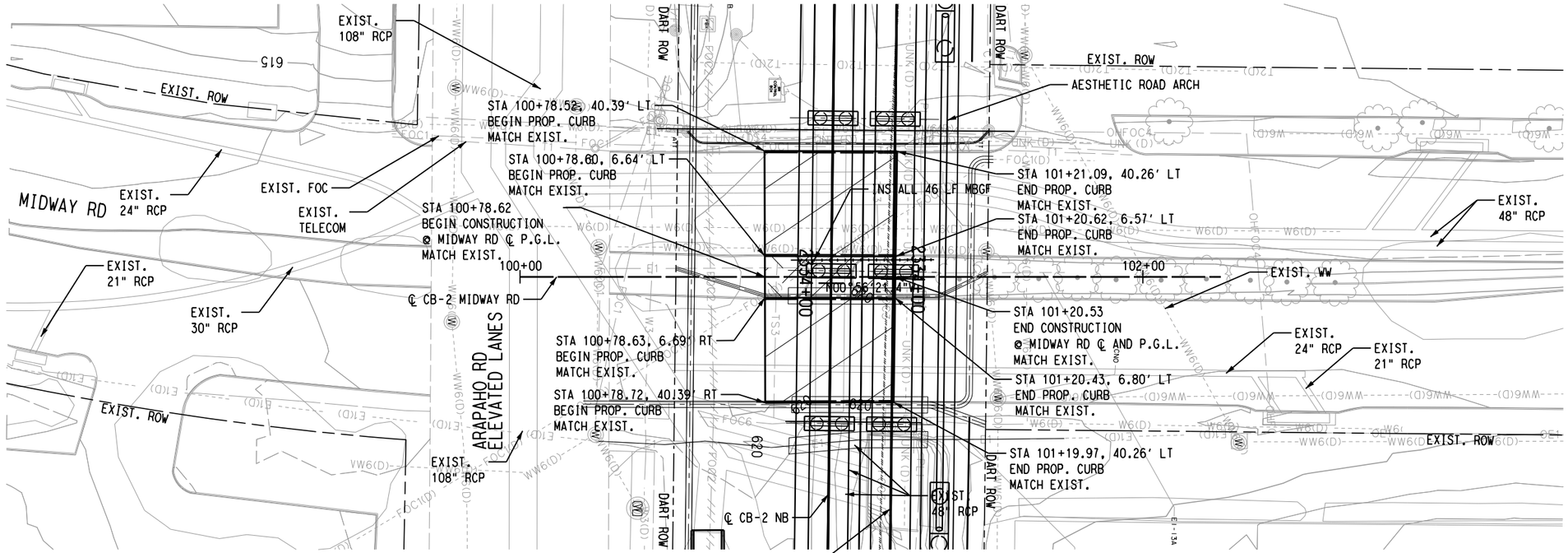
CONTRACT SHEET No. 10 OF 11

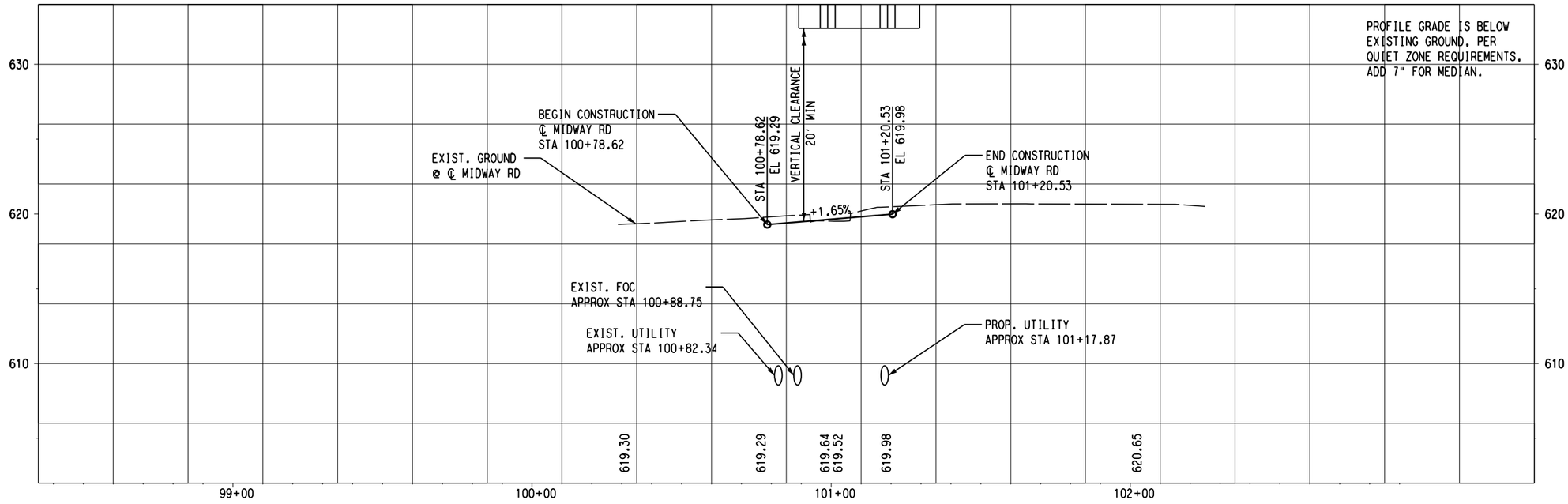
COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
MIDWAY ROAD MODIFICATIONS TYPICAL SECTIONS AND HORIZONTAL DATA SHEET 1 OF 1

CONTRACT	DWG No.	REV
C-2033270-01	CC7-1101	A

CB02-CC7-1101.001

DWG No. CC4-1101





LEGEND

- CONCRETE PAVEMENT
- CONCRETE GRADE CROSSING PANELS
- ASPHALT OR ASHPALIC CONCRETE GRADE CROSSING BUFFER
- CONCRETE SIDEWALK, CONCRETE MEDIAN
- CONCRETE DRIVEWAY
- BRICK MEDIAN
- GRASS MEDIAN

NOTES:

1. DESIGN SPEED = 40 MPH
2. SEE TRACK (DWG NO. XXX-XXXX), DRAINAGE (DWG NO. XXX-XXXX), AND UTILITIES (DWG NO. XXX-XXXX) SHEETS FOR ADDITIONAL INFORMATION.
3. SEE TOWN OF ADDISON TRANSPORTATION TECHNICAL STANDARDS P-9 PAVING DETAILS AND P-17 CURB DETAILS FOR ADDITIONAL INFORMATION.

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FIRM REGISTRATION No. F-2966

SEC Simon Engineering Consulting Inc.
15443 KNOLL TRAIL DRIVE, SUITE 140
DALLAS, TX 75248
Phone: +1 (214) 466-7870
FIRM REGISTRATION No. F-10997

ARCHER WESTERN HERZOG

DART PROJECT

DART®

SCALE	1" = 20'
DRAWN	D. TATUM
DESIGNED	D. TATUM
CHECKED	A. SULLIVAN
IN CHARGE	D. KELLY
DATE	30 SEP 19

CAES

CONTRACT SHEET No. 11 OF 11

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

MIDWAY ROAD MODIFICATIONS
PLAN AND PROFILE
SHEET 1 of 1

CONTRACT	DWG No.	REV
C-2033270-01	CC4-1101	A

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datum
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