MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

FACILITIES ENGINEERING, ADA & SUSTAINABILITY DIVISION

PURPLE LINE LIGHT RAIL TRANSIT SYSTEM

PRELIMINARY ENGINEERING

VOLUME 5 - UTILITY RELOCATIONS

CONTRACT NO. T-1042-0220

Note: Volume 5 of the Reference Design pertaining to utilities portrays the MTA's interpretation of the necessary utility relocations based on the location of existing utilities known to MTA as of September 10, 2013. Additional utility locating has occurred after September 10, 2013, which may make the reference designs in Volume 5 inconsistent with the revised location of existing utilities.

ADA DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

DATE _____ DESIGNER'S SIGNATURE _____

MD. REGISTRATION NO. _____
P.E. R.L.S. OR R.L.A. (CIRCLE)

PRINTED NAME _____

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY"

DATE _____ DESIGNER'S SIGNATURE _____

MD. REGISTRATION NO. _____
P.E. R.L.S. OR R.L.A. (CIRCLE)

PRINTED NAME _____

OWNERS / DEVELOPER CERTIFICATION

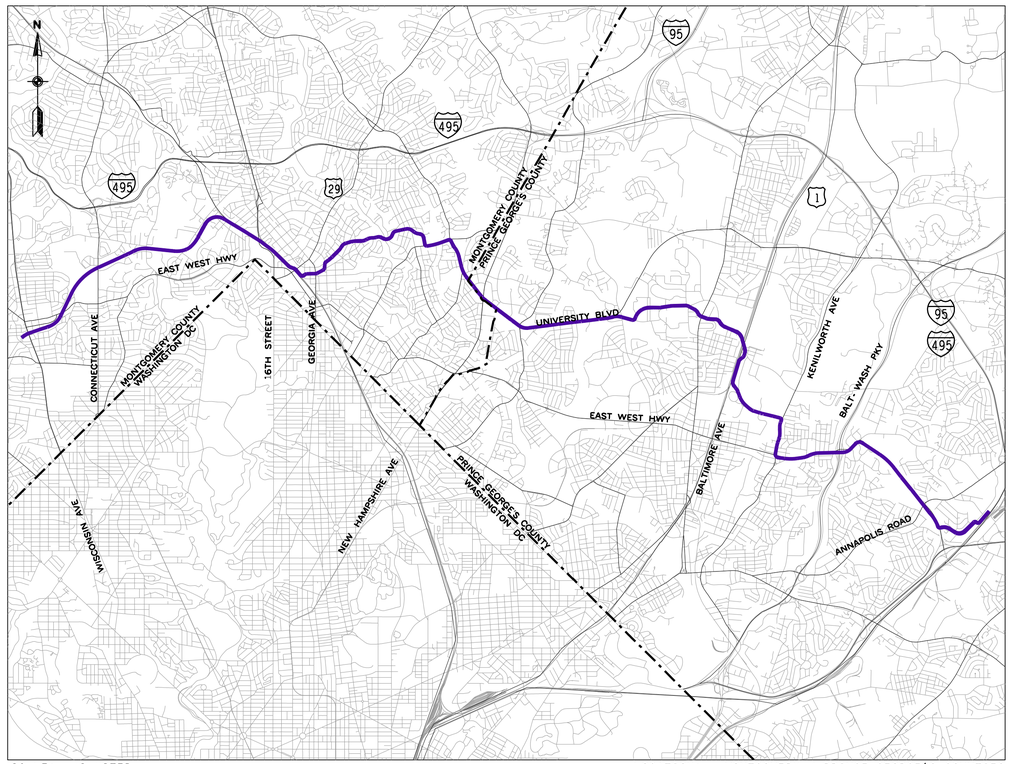
"I/WE HEREBY CERTIFY THAT ALL CLEARING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

ROBERT L. BURRIS, ASSISTANT MANAGER,
Facilities Engineering, ADA & Sustainability

DATE _____ OWNER/DEVELOPER SIGNATURES

43667
CERT. NO. _____ PRINTED NAME AND TITLE

DCN: 2013.12.20.PE.01.P3 Draft RFP Reference Drawings-Vol. 5-00



SCALE: AS NOTED LOCATION: MONTGOMERY / PRINCE GEORGE'S COUNTIES

VICINITY MAP

5000' 2500' 0 5000' 10000'
GRAPHIC SCALE

DRAFT: Information shown is based on 30 percent preliminary engineering plans and may be subject to further revision pending refinements to the plans during the completion of the design phase. Any reliance upon any of these plans is made with full understanding of its draft status.

PRELIMINARY ENGINEERING SUBMISSION
DECEMBER 2013

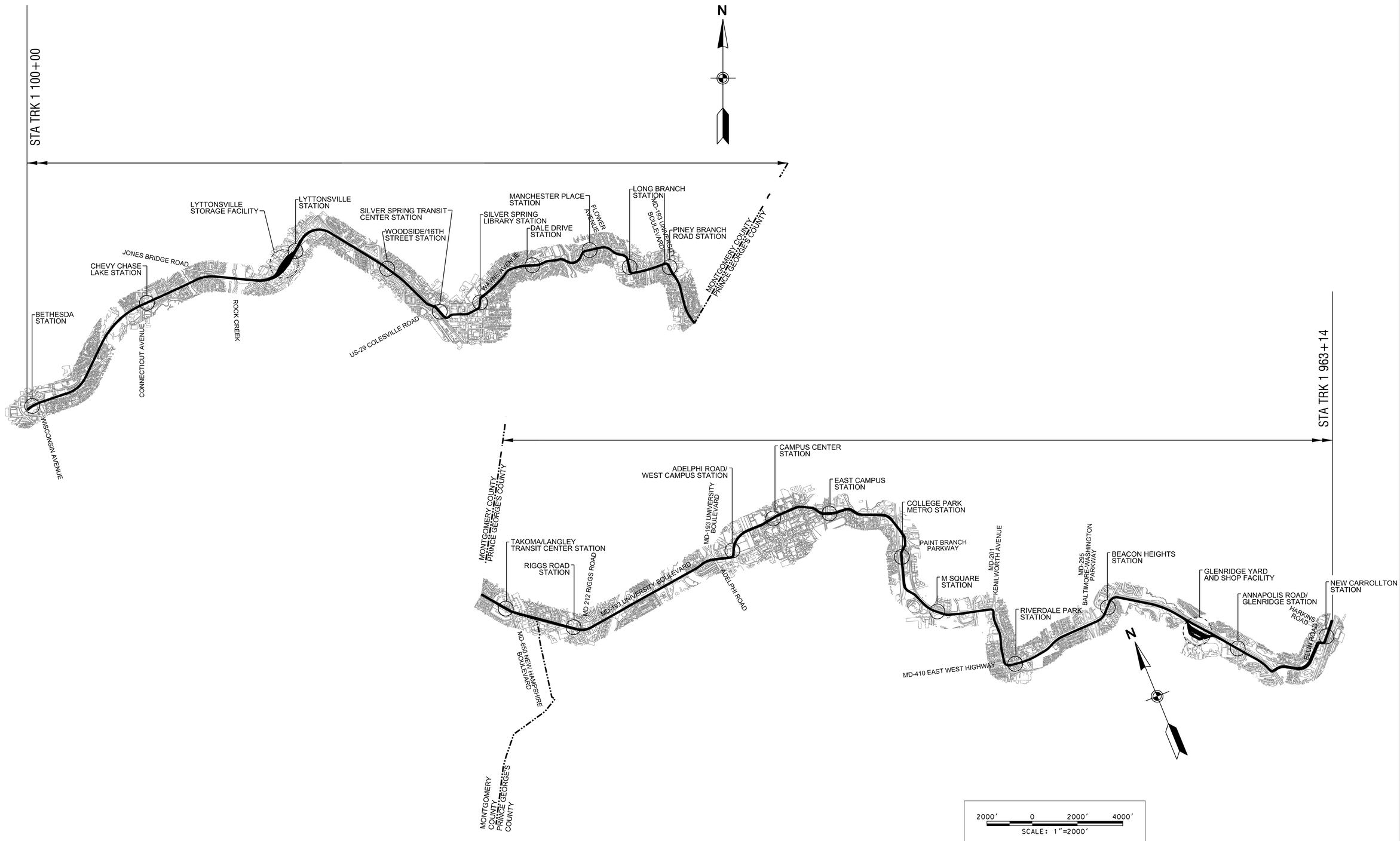
MARYLAND TRANSIT ADMINISTRATION

DATE: _____ APPROVED: _____

Purple Line
General Engineering Consultant Team
100 North Charles Street, 8th Floor ■ Baltimore, MD 21202
P: 410-244-6046

CONTRACT NO. T-1042-0220
DRAWING NO. TI-5001
SHEET NO. 1 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 05\1042pTI5001.DGN
12/20/2013



MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

KEY MAP

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. GN-5001
SHEET NO. 2 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 05\1042pGN5001.dgn
12/11/2013

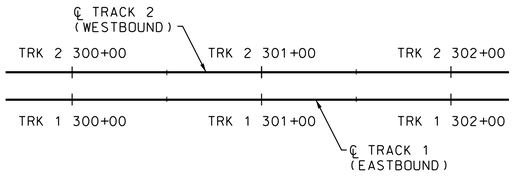
GENERAL NOTES

1. HORIZONTAL CONTROL: THIS PROJECT IS ORIENTATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83/91.
2. VERTICAL CONTROL: THE LOCATION AND ELEVATION OF BENCH MARKS ARE SHOWN ON THE PLANS. ALL ELEVATIONS ARE IN FEET AND ARE BASED ON NAVD 1988 DATUM.
3. BASE TOPOGRAPHIC SURVEY INFORMATION FOR THIS CONTRACT WAS ESTABLISHED FROM AERIAL PHOTOGRAMMETRIC MAPPING IN MARCH OF 2007. SUPPLEMENTAL FIELD SURVEYS WERE PERFORMED AND PLOTTED BY PINNACLE MAPPING TECHNOLOGIES IN MARCH OF 2007.
4. ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF DRAINAGE INLETS AND PIPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES.
5. ALL DRAINAGE PIPES AND DITCHES SHALL BE CONSTRUCTED ON A UNIFORM GRADE BETWEEN INVERT ELEVATIONS NOTED ON THE PLANS. UNLESS INDICATED OTHERWISE ON THE PLANS OR DETAILS.
6. THE LOCATION AND LENGTH OF DRAINAGE PIPE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ORDERING.
7. TYPE AND INVERT OF DITCHES ARE NOTED ON THE PLANS. DITCHES WILL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO GRADE FOR POSITIVE DRAINAGE WITHIN THE PARKING LOT, AT ALL ENTRANCES, AND ALONG ALL CURB LINES IN ACCORDANCE WITH THE PROPOSED DRAINAGE PATTERNS AS SHOWN ON THE PLANS, AND THOSE EXISTING WHERE APPLICABLE. IN NO CASE SHALL THIS REQUIREMENT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO CONSTRUCT ALL FACILITIES WITHIN ADA REGULATIONS.
9. ALL EXISTING STORM DRAIN STRUCTURES, SEWER MANHOLES, UTILITY MANHOLES, INLETS, VALVE BOXES, VAULTS, ETC. SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET THE FINISHED GRADE ELEVATION AS NOTED ON THE PLANS, UNLESS THESE APPURTENANCES ARE ABANDONED UNDER THIS CONTRACT.
10. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ON THESE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL CONCERNED UTILITY OWNERS PRIOR TO GRADING OPERATIONS.
11. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
12. ANY DISTURBED AREAS NOT PAVED OR LANDSCAPED SHALL RECEIVE 4" TOPSOIL, SEEDING AND MULCH, UNLESS OTHERWISE NOTED ON THE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING CONSTRUCTION SUCH THAT A SOIL STOCKPILE SUITABLE FOR FILL MATERIAL AND TOPSOIL CAN BE MAINTAINED ON-SITE.
14. MATERIAL REMOVED DURING CONSTRUCTION INCLUDING ASPHALT, SIGNS, LIGHT POLES, ETC. SHALL BECOME THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESET ANY SIGN POST OR OTHER APPURTENANCES REMOVED DURING THE CONSTRUCTION TO FACILITATE HIS WORK, EXCEPT WHERE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL PERFORM ALL WORK IN A MANNER THAT WILL INSURE THE SAFETY OF THE GENERAL PUBLIC, COMMUTERS, AND EMPLOYEES OF THE CONTRACTOR, MTA, ETC.
17. ANY DAMAGE TO EXISTING CURBING ADJACENT TO NEW PAVING SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
18. UNLESS OTHERWISE NOTED, ALL SAW CUTTING SHALL BE FULL DEPTH.
19. PRIOR TO PERFORMING EXCAVATION OR GRADING AT ANY LOCATION, CONTACT "MISS UTILITY", 1-800-257-7777 AT LEAST 48 HOURS IN ADVANCE OF THE PROPOSED WORK.
20. THE CONTRACTOR SHALL NOTE THE HISTORIC NATURE OF THE SURROUNDING COMMUNITY. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE NOISE FROM CONSTRUCTION ACTIVITY ON-SITE.
21. A COPY OF THE CONTRACTOR'S SITE SPECIFIC PROJECT SAFETY PLAN SHOULD BE SUBMITTED TO THE OFFICE OF SAFETY & RISK MANAGEMENT (OSRM) FOR REVIEW AND COMMENT. A COPY SHOULD BE FORWARDED TO DENNIS RAFFERTY/DAVID AUCHU IN THE OFFICE OF SAFETY & RISK MANAGEMENT. THE CONTRACTOR SHALL NOT BEGIN ANY WORK ACTIVITIES ON SITE UNTIL THE PROJECT SAFETY PLAN HAS BEEN REVIEWED AND FOUND TO BE ACCEPTABLE BY REPRESENTATIVES FROM THE OSRM.
22. OCS SUPPORT LOCATIONS ARE PRESENTED ON THE CIVIL PLANS FOR GRAPHICAL REPRESENTATION ONLY. AS-DESIGNED SUPPORT LAYOUTS AND CONFIGURATIONS TO BE DEVELOPED IN THE NEXT PHASE OF DESIGN.

ADA SUMMARY

REFER TO ADA GENERAL NOTES SHEET

STATIONING KEY



LEGEND - EXISTING

- EXISTING BUILDING
- EXISTING SIDEWALK
- EXISTING RIGHT OF WAY
- EXISTING WETLAND BOUNDARY
- EXISTING TRAFFIC SIGNAL TO REMAIN
- EXISTING TRAFFIC SIGNAL TO BE REMOVED
- EXISTING ACTIVE RECOVERY WELL IN LOWER ZONE
- EXISTING ACTIVE RECOVERY WELL IN UPPER ZONE
- EXISTING LEFT TURN ELIMINATED WITH PROPOSED IMPROVEMENTS
- EXISTING TRAFFIC PATTERN

LEGEND - PROPOSED

- PROPOSED BUILDING DISPLACEMENT
- BY-OTHERS — PROPOSED IMPROVEMENTS BY OTHERS
- PROPOSED CONCRETE
- PAVEMENT REMOVAL
- PERMEABLE PAVEMENT
- PROPOSED FULL DEPTH ASPHALT PAVEMENT
- PROPOSED WEDGE/LEVEL OR MILL AND OVERLAY
- PROPOSED CATENARY POLE
- PROPOSED TRAFFIC SIGNAL
- PROPOSED TRAFFIC PATTERN
- PROPOSED BUMPING POST

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming
WR&A

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

GENERAL NOTES AND LEGEND

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. GN-5002
SHEET NO. 3 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 05\1042pGN5002.dgn
12/11/2013

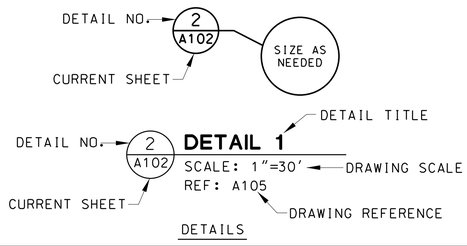
ABBREVIATIONS

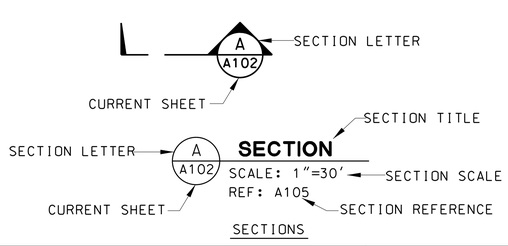
△	TOTAL CENTRAL ANGLE OF SPIRAL AND CIRCULAR CURVES
△c	CENTRAL ANGLE OF CIRCULAR CURVE
AASHTO	AMERICAN SOCIETY OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ASPHALT CONCRETE
ABAN	ABANDONED
ABUT	ABUTMENT
ADAAG	ADA ACCESSIBILITY GUIDELINES
AGIP	AT GRADE INLET PROTECTION
AGG	AGGREGATE
AH, AHD	AHEAD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPROX	APPROXIMATE
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
@	AT
BIT	BITUMINOUS
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BK	BACK
BLDG	BUILDING
℄	BASELINE
BLVD	BOULEVARD
BM	BENCHMARK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
CB	CATCH BASIN
CCT	CAPITAL CRESCENT TRAIL
C/C	CENTER TO CENTER
CD	STONE CHECK DAM
CEM	CEMENT
CG	CONCRETE GUTTER
C&G	CURB AND GUTTER
CGSP	CORR. GALVANIZED STEEL PIPE
CIP	CAST IRON PIPE
℄	CENTERLINE
CL	CLASS
CMP	CORRUGATED METAL PIPE
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINED SEWER
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CRB	CURB LINE
CSXT	CSX TRANSPORTATION INCORPORATED
C/T	CROSSOVER TRACK
CTB	CEMENT TREATED BASE
D_C	DEGREE OF CIRCULAR CURVE
DEFL	DEFLECTION
DEG. °	DEGREES
D/I	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWNSPOUT
DRWY	DRIVEWAY
DWG	DRAWING
DWLG	DWELLING
E	EAST
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELCP	ELLIPTICAL CONCRETE PIPE
ELEC	ELECTRIC
EM	ELECTRIC METER
EMB	EMBANKMENT
E/P	EDGE OF PAVEMENT
EQ	EQUAL
EQL	EQUILATERAL
EQN	EQUATION
E/R	EDGE OF ROAD
E/S	EDGE OF STREAM
ESMT	EASEMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FC	FIELD CONNECTION
FF	FAR FACE
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOOR, FLOWLINE
FR	FRAME
FT, ′	FOOT, FEET
F/T	FUTURE TRACK
FUT	FUTURE
GALV	GALVANIZED
GM	GAS METER
GND	GROUND
GR	GRADE
GV	GAS VALVE
GW	GUY WIRE
H	HEIGHT
HBX	HAND BOX
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HP	HIGH POINT
H/W	HEAD WALL
I	INLET
ID	INSIDE DIAMETER
IN, ″	INCH
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
LB	POUND
Lc	TOTAL LENGTH OF CIRCULAR CURVE, IN FEET
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
LP	LOW POINT
LPLG	LEAD PLUG (SURVEY MONUMENT)
LR	LONG RADIUS
LRT	LIGHT RAIL TRANSIT
LRV	LIGHT RAIL VEHICLE
LT	LEFT
MARC	MARYLAND RAIL COMMUTER
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MIN, ′	MINUTE
MISC	MISCELLANEOUS
MON	MONUMENT
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
MTA	MARYLAND TRANSIT ADMINISTRATION
N	NORTH
N/A	NOT APPLICABLE
NB	NORTHBOUND
N/E	NORTH LINE - EAST TRACK
NF	NEAR FACE
N/F	NOW OR FORMERLY
NIC	NOT IN CONTRACT
NO, #	NUMBER
NTS	NOT TO SCALE
N/W	NORTH LINE-WEST TRACK
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PAVT	PAVEMENT
PC	POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PED	PEDESTRIAN
PERF	PERFORATED
PERM	PERMANENT
PGE	PROFILE GRADE ELEVATION
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION OF TWO TANGENTS
PK	PARKER-KALON NAIL (SURVEY MARKER)
PKG	PARKING
ℙ	PROPERTY LINE
PLAT	PLATFORM
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POE	POINT OF ENDING
POL	POINT ON LINE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PROP	PROPOSED
PST	PORTABLE SEDIMENT TANK
PT	POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT
PV	PETROLEUM VALVE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCEP	REINFORCED CONCRETE ELLIPTICAL PIPE
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
RET	RETAINING
RP	RAMP
RR	RAILROAD
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SB	SOUTHBOUND
SCE	STABILIZED CONSTRUCTION ENTRANCE
SCH	SCHEDULE
SD	STORM DRAIN
S/E	SOUTH LINE - EAST TRACK
SEC, ″	SECOND
SECT	SECTION
SF	SILT FENCE
S.F.	SQUARE FOOT
SG	SUBGRADE
SHA	STATE HIGHWAY ADMINISTRATION
SHLD	SHOULDER
SHT	SHEET
SIG	SIGNAL
SLP	SLOPE
SP	SPACING
STA	STATION
STD	STANDARD
STL	STEEL
STR	STRUCTURE
SURF	SURFACE
SW	SIDE WALK
S/W	SOUTH LINE - WEST TRACK
SWM	STORMWATER MANAGEMENT
TB	TEST BORING
Tc	TANGENT LENGTH OF CIRCULAR CURVE
T/C	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
T/G	TOP OF GROUND
T.G.	TOP OF GRATE
TOPO	TOPOGRAPHY
TP	TEST PIT
T/P	TOP OF PAVEMENT
T/R	TOP OF RAIL
TRK	TRACK
TR SIG	TRAFFIC SIGNAL
T.S.	TOP OF STRUCTURE
TYP	TYPICAL
UD	UNDERDRAIN
UNO	UNLESS NOTED OTHERWISE
V	VELOCITY
VAR	VARIES
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WAT	WATER
WB	WESTBOUND
WHSE	WAREHOUSE
WM	WATER METER
WMATA	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
WP	WORK POINT
WS	WATER SURFACE
WV	WATER VALVE
X-ING	CROSSING
X-OVER	CROSSOVER

SYMBOLS

EXISTING		PROPOSED
	RIGHT-OF-WAY	
ℙ	PROPERTY LINE	ℙ
	PARCEL NUMBER	#500
	MATCHLINE AND SECTION LINE	
	TRACK CENTER LINE	℄ TRACK 1
℄	CENTER LINE	℄
	BASE LINE	ℬ
	POINT OF INTERSECTION OF TANGENTS	
	STATION EQUATION	STA AH = / STA BK
TRAV PT. 10	PRIMARY HORIZONTAL CONTROL - TRAVERSE POINT	
BM	BENCH MARK	
TB 18	TEST BORING 18	
TP 22	TEST PIT	
	STRUCTURE OUTLINE	
	METAL FENCE (CHAIN LINK)	
	ORNAMENTAL METAL FENCE	
	WOOD FENCE	
	RAILROAD TRACKS	
CC	CONCRETE CURB	
C&G	CONCRETE CURB AND GUTTER	
	DETECTABLE WARNING SURFACE	
WALL	WALLS	WALL
	TRAFFIC BARRIER	
	BILLBOARD OR LARGE SIGN	
OR	SIGNS - NON-TRAFFIC	
	SIGNS - TRAFFIC	OR
	CUT SLOPE - TOP	C
	FILL SLOPE - TOE	F

EXISTING		PROPOSED
140	MAJOR CONTOUR LINE	140
141	MINOR CONTOUR LINE	141
103.1 ×	SPOT ELEVATION	103.1
▽ EL.	HIGH WATER	▼ EL.
	DITCH	
	SWALE	
	SURFACE FLOW DIRECTION	
27″ RCP	STORM DRAIN LINE	27″ RCP
UD	UNDERDRAIN LINE	UD
DI	DROP INLET, CATCH BASIN OR DRAIN	I-1
	CULVERT WITH HEADWALLS	
E G SS T W	MANHOLE (TYPE AS NOTED)	M-1
SAN CO SAN	CLEANOUT	CO SAN
WM 8″ W WV	WATER LINE	12″ W
12″ G GV	GAS LINE	6″ G
8″ S SS	SANITARY LINE	12″ S SAN
T	UNDERGROUND TELEPHONE LINE	2″ T
T	OVERHEAD TELEPHONE LINE	T
E JB	UNDERGROUND ELECTRIC LINE	E
E	OVERHEAD ELECTRIC LINE	E
E JB	ELECTRICAL JUNCTION BOX	
E	ELECTRIC METER	
FO	UNDERGROUND FIBER OPTIC LINE	FO
FO	OVERHEAD FIBER OPTIC LINE	FO
POLE NO.	UTILITY POLE	
	LIGHT POLE	
FH WV	FIRE HYDRANT	FH WM
	ITEM TO BE REMOVED	R





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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

CIVIL ABBREVIATIONS AND SYMBOLS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. GN-5003
SHEET NO. 4 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 05\1042pGN5003.dgn
12/11/2013

ABBREVIATIONS

CIH	CENTRAL INSTRUMENT HOUSE
EX	EXIST
HB	HANDBOX
OCS	OVERHEAD CATENARY SYSTEM
O/H	OVERHEAD
PLA	PLASTIC
TBA	TO BE ABANDONED
TBR	TO BE REMOVED
U/G	UNDERGROUND
WRPD	WRAPED
X"	UNKNOWN UTILITY SIZE

EXISTING	UTILITY NAME	PROPOSED
EX #"W	WATER	#"W
EX #"S	SANITARY	#"S
EX #"ST	STEAM	#"ST
EX #"D	STORM	#"D
EX #"G	GAS	#"G
EX FO	FIBER OPTIC	#"FO
EX T	TELEPHONE	#"T
EX #"CSNG	STEEL CASING	#"CSNG
EX E	ELECTRIC	E
EX UT	OTHER UTILITIES	UT

SYMBOLS

EXISTING		PROPOSED
	HAND HOLE	T
	TEST PIT	
— — W — — (	WATER CAP	— — W — — (
	OCS POLE	o

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

UTILITY ABBREVIATIONS AND SYMBOLS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220

DRAWING NO. GN-5004

SHEET NO. 5 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 05\1042pGN5004.dgn
12/11/2013

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GENERAL

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1	TI-5001	TITLE SHEET - VOLUME 5
2	GN-5001	KEY MAP
3	GN-5002	GENERAL NOTES AND LEGEND
4	GN-5003	CIVIL ABBREVIATIONS AND SYMBOLS
5	GN-5004	UTIL ABBREVIATIONS AND SYMBOLS
6	GI-5101	INDEX OF SHEETS - VOLUME 5 SHEET 1
7	GI-5102	INDEX OF SHEETS - VOLUME 5 SHEET 2

UNDERGROUND UTILITY RELOCATION DRAWINGS

SHEET NO.	DWG. NO.	DESCRIPTION
8	UT-001	PROP UG UTIL RELOCATIONS STA TRK 1 100+00 TO STA TRK 1 111+00
9	UT-002	PROP UG UTIL RELOCATIONS STA TRK 1 111+00 TO STA TRK 1 123+00
10	UT-003	PROP UG UTIL RELOCATIONS STA TRK 1 123+00 TO STA TRK 1 135+00
11	UT-004	PROP UG UTIL RELOCATIONS STA TRK 1 135+00 TO STA TRK 1 147+00
12	UT-005	PROP UG UTIL RELOCATIONS STA TRK 1 147+00 TO STA TRK 1 159+00
13	UT-006	PROP UG UTIL RELOCATIONS STA TRK 1 159+00 TO STA TRK 1 171+00
14	UT-007	PROP UG UTIL RELOCATIONS STA TRK 1 171+00 TO STA TRK 1 183+00
15	UT-008	PROP UG UTIL RELOCATIONS STA TRK 1 183+00 TO STA TRK 1 195+00
16	UT-009	PROP UG UTIL RELOCATIONS STA TRK 1 195+00 TO STA TRK 1 207+00
17	UT-010	PROP UG UTIL RELOCATIONS STA TRK 1 207+00 TO STA TRK 1 219+00
18	UT-011	PROP UG UTIL RELOCATIONS STA TRK 1 219+00 TO STA TRK 1 231+00
19	UT-012	PROP UG UTIL RELOCATIONS STA TRK 1 231+00 TO STA TRK 1 243+00
20	UT-013	PROP UG UTIL RELOCATIONS STA TRK 1 243+00 TO STA TRK 1 255+00
21	UT-014	PROP UG UTIL RELOCATIONS STA TRK 1 255+00 TO STA TRK 1 267+00
22	UT-015	PROP UG UTIL RELOCATIONS STA TRK 1 267+00 TO STA TRK 1 279+00
23	UT-016	PROP UG UTIL RELOCATIONS STA TRK 1 279+00 TO STA TRK 1 291+00
24	UT-017	PROP UG UTIL RELOCATIONS STA TRK 1 291+00 TO STA TRK 1 303+00
25	UT-018	PROP UG UTIL RELOCATIONS STA TRK 1 303+00 TO STA TRK 1 315+00
26	UT-019	PROP UG UTIL RELOCATIONS STA TRK 1 315+00 TO STA TRK 1 327+00
27	UT-020	PROP UG UTIL RELOCATIONS STA TRK 1 327+00 TO STA TRK 1 336+00
28	UT-021	PROP UG UTIL RELOCATIONS STA TRK 1 336+00 TO STA TRK 1 345+00
29	UT-022	PROP UG UTIL RELOCATIONS STA TRK 1 345+00 TO STA TRK 1 354+00
30	UT-023	PROP UG UTIL RELOCATIONS STA TRK 1 354+00 TO STA TRK 1 364+00
31	UT-024	PROP UG UTIL RELOCATIONS STA TRK 1 364+00 TO STA TRK 1 372+00
32	UT-025	PROP UG UTIL RELOCATIONS STA TRK 1 372+00 TO STA TRK 1 383+00
33	UT-026	PROP UG UTIL RELOCATIONS STA TRK 1 383+00 TO STA TRK 1 392+00
34	UT-027	PROP UG UTIL RELOCATIONS STA TRK 1 392+00 TO STA TRK 1 402+00
35	UT-028	PROP UG UTIL RELOCATIONS STA TRK 1 402+00 TO STA TRK 1 408+50
36	UT-029	PROP UG UTIL RELOCATIONS STA TRK 1 408+50 TO STA TRK 1 417+00
37	UT-030	PROP UG UTIL RELOCATIONS STA TRK 1 417+00 TO STA TRK 1 428+00
38	UT-031	PROP UG UTIL RELOCATIONS STA TRK 1 428+00 TO STA TRK 1 436+00
39	UT-032	PROP UG UTIL RELOCATIONS STA TRK 1 436+00 TO STA TRK 1 444+00
40	UT-033	PROP UG UTIL RELOCATIONS STA TRK 1 444+00 TO STA TRK 1 449+00
41	UT-034	PROP UG UTIL RELOCATIONS STA TRK 1 449+00 TO STA TRK 1 461+00
42	UT-035	PROP UG UTIL RELOCATIONS STA TRK 1 461+00 TO STA TRK 1 472+50
43	UT-036	PROP UG UTIL RELOCATIONS STA TRK 1 472+50 TO STA TRK 1 483+50
44	UT-037	PROP UG UTIL RELOCATIONS STA TRK 1 483+50 TO STA TRK 1 494+50
45	UT-038	PROP UG UTIL RELOCATIONS STA TRK 1 494+50 TO STA TRK 1 505+50
46	UT-039	PROP UG UTIL RELOCATIONS STA TRK 1 505+50 TO STA TRK 1 516+50
47	UT-040	PROP UG UTIL RELOCATIONS STA TRK 1 516+50 TO STA TRK 1 528+00
48	UT-041	PROP UG UTIL RELOCATIONS STA TRK 1 528+00 TO STA TRK 1 539+50
49	UT-042	PROP UG UTIL RELOCATIONS STA TRK 1 539+50 TO STA TRK 1 551+50
50	UT-043	PROP UG UTIL RELOCATIONS STA TRK 1 551+50 TO STA TRK 1 563+50
51	UT-044	PROP UG UTIL RELOCATIONS STA TRK 1 563+50 TO STA TRK 1 575+00
52	UT-045	PROP UG UTIL RELOCATIONS STA TRK 1 575+00 TO STA TRK 1 586+50
53	UT-046	PROP UG UTIL RELOCATIONS STA TRK 1 586+50 TO STA TRK 1 598+00
54	UT-047	PROP UG UTIL RELOCATIONS STA TRK 1 598+00 TO STA TRK 1 604+00
55	UT-048	PROP UG UTIL RELOCATIONS STA TRK 1 604+00 TO STA TRK 1 611+50
56	UT-049	PROP UG UTIL RELOCATIONS STA TRK 1 611+50 TO STA TRK 1 622+50
57	UT-050	PROP UG UTIL RELOCATIONS STA TRK 1 622+50 TO STA TRK 1 634+00
58	UT-051	PROP UG UTIL RELOCATIONS STA TRK 1 634+00 TO STA TRK 1 643+00
59	UT-052	PROP UG UTIL RELOCATIONS STA TRK 1 643+00 TO STA TRK 1 653+50
60	UT-053	PROP UG UTIL RELOCATIONS STA TRK 1 653+50 TO STA TRK 1 664+50
61	UT-054	PROP UG UTIL RELOCATIONS STA TRK 1 664+50 TO STA TRK 1 676+00
62	UT-055	PROP UG UTIL RELOCATIONS STA TRK 1 676+00 TO STA TRK 1 687+00
63	UT-056	PROP UG UTIL RELOCATIONS STA TRK 1 687+00 TO STA TRK 1 696+00
64	UT-057	PROP UG UTIL RELOCATIONS STA TRK 1 696+00 TO STA TRK 1 705+50
65	UT-058	PROP UG UTIL RELOCATIONS STA TRK 1 705+50 TO STA TRK 1 715+50
66	UT-059	PROP UG UTIL RELOCATIONS STA TRK 1 715+50 TO STA TRK 1 726+50
67	UT-060	PROP UG UTIL RELOCATIONS STA TRK 1 726+50 TO STA TRK 1 737+50
68	UT-061	PROP UG UTIL RELOCATIONS STA TRK 1 737+50 TO STA TRK 1 747+50
69	UT-062	PROP UG UTIL RELOCATIONS STA TRK 1 747+50 TO STA TRK 1 758+00

UNDERGROUND UTILITY RELOCATION DRAWINGS (CONTINUED)

SHEET NO.	DWG. NO.	DESCRIPTION
70	UT-063	PROP UG UTIL RELOCATIONS STA TRK 1 758+00 TO STA TRK 1 769+00
71	UT-064	PROP UG UTIL RELOCATIONS STA TRK 1 769+00 TO STA TRK 1 779+00
72	UT-065	PROP UG UTIL RELOCATIONS QUESADA ROAD
73	UT-066	PROP UG UTIL RELOCATIONS STA TRK 1 779+00 TO STA TRK 1 788+00
74	UT-067	PROP UG UTIL RELOCATIONS STA TRK 1 788+00 TO STA TRK 1 797+00
75	UT-068	PROP UG UTIL RELOCATIONS STA TRK 1 797+00 TO STA TRK 1 807+00
76	UT-069	PROP UG UTIL RELOCATIONS STA TRK 1 807+00 TO STA TRK 1 818+00
77	UT-070	PROP UG UTIL RELOCATIONS STA TRK 1 818+00 TO STA TRK 1 828+00
78	UT-071	PROP UG UTIL RELOCATIONS STA TRK 1 828+00 TO STA TRK 1 837+00
79	UT-072	PROP UG UTIL RELOCATIONS STA TRK 1 837+00 TO STA TRK 1 846+50
80	UT-073	PROP UG UTIL RELOCATIONS STA TRK 1 846+50 TO STA TRK 1 857+00
81	UT-074	PROP UG UTIL RELOCATIONS STA TRK 1 857+00 TO STA TRK 1 867+00
82	UT-075	PROP UG UTIL RELOCATIONS STA TRK 1 867+00 TO STA TRK 1 877+00
83	UT-076	PROP UG UTIL RELOCATIONS STA TRK 1 877+00 TO STA TRK 1 888+00
84	UT-077	PROP UG UTIL RELOCATIONS STA TRK 1 888+00 TO STA TRK 1 898+00
85	UT-078	PROP UG UTIL RELOCATIONS STA TRK 1 898+00 TO STA TRK 1 909+00
86	UT-079	PROP UG UTIL RELOCATIONS STA TRK 1 909+00 TO STA TRK 1 919+00
87	UT-080	PROP UG UTIL RELOCATIONS STA TRK 1 919+00 TO STA TRK 1 930+00
88	UT-081	PROP UG UTIL RELOCATIONS STA TRK 1 930+00 TO STA TRK 1 939+50
89	UT-082	PROP UG UTIL RELOCATIONS STA TRK 1 939+50 TO STA TRK 1 949+50
90	UT-083	PROP UG UTIL RELOCATIONS STA TRK 1 949+50 TO STA TRK 1 957+50
91	UT-084	PROP UG UTIL RELOCATIONS STA TRK 1 957+50 TO STA TRK 1 963+14

OVERHEAD UTILITY RELOCATION DRAWINGS

SHEET NO.	DWG. NO.	DESCRIPTION
92	UT-085	PROP OH UTIL RELOCATIONS STA TRK 1 100+00 TO STA TRK 1 111+00
93	UT-086	PROP OH UTIL RELOCATIONS STA TRK 1 111+00 TO STA TRK 1 123+00
94	UT-087	PROP OH UTIL RELOCATIONS STA TRK 1 123+00 TO STA TRK 1 135+00
95	UT-088	PROP OH UTIL RELOCATIONS STA TRK 1 135+00 TO STA TRK 1 147+00
96	UT-089	PROP OH UTIL RELOCATIONS STA TRK 1 147+00 TO STA TRK 1 159+00
97	UT-090	PROP OH UTIL RELOCATIONS STA TRK 1 159+00 TO STA TRK 1 171+00
98	UT-091	PROP OH UTIL RELOCATIONS STA TRK 1 171+00 TO STA TRK 1 183+00
99	UT-092	PROP OH UTIL RELOCATIONS STA TRK 1 183+00 TO STA TRK 1 195+00
100	UT-093	PROP OH UTIL RELOCATIONS STA TRK 1 195+00 TO STA TRK 1 207+00
101	UT-094	PROP OH UTIL RELOCATIONS STA TRK 1 207+00 TO STA TRK 1 219+00
102	UT-095	PROP OH UTIL RELOCATIONS STA TRK 1 219+00 TO STA TRK 1 231+00
103	UT-096	PROP OH UTIL RELOCATIONS STA TRK 1 231+00 TO STA TRK 1 243+00
104	UT-097	PROP OH UTIL RELOCATIONS STA TRK 1 243+00 TO STA TRK 1 255+00
105	UT-098	PROP OH UTIL RELOCATIONS STA TRK 1 255+00 TO STA TRK 1 267+00
106	UT-099	PROP OH UTIL RELOCATIONS STA TRK 1 267+00 TO STA TRK 1 279+00
107	UT-100	PROP OH UTIL RELOCATIONS STA TRK 1 279+00 TO STA TRK 1 291+00
108	UT-101	PROP OH UTIL RELOCATIONS STA TRK 1 291+00 TO STA TRK 1 303+00
109	UT-102	PROP OH UTIL RELOCATIONS STA TRK 1 303+00 TO STA TRK 1 315+00
110	UT-103	PROP OH UTIL RELOCATIONS STA TRK 1 315+00 TO STA TRK 1 327+00
111	UT-104	PROP OH UTIL RELOCATIONS STA TRK 1 327+00 TO STA TRK 1 336+00
112	UT-105	PROP OH UTIL RELOCATIONS STA TRK 1 336+00 TO STA TRK 1 345+00
113	UT-106	PROP OH UTIL RELOCATIONS STA TRK 1 345+00 TO STA TRK 1 354+00
114	UT-107	PROP OH UTIL RELOCATIONS STA TRK 1 354+00 TO STA TRK 1 364+00
115	UT-108	PROP OH UTIL RELOCATIONS STA TRK 1 364+00 TO STA TRK 1 372+00
116	UT-109	PROP OH UTIL RELOCATIONS STA TRK 1 372+00 TO STA TRK 1 383+00
117	UT-110	PROP OH UTIL RELOCATIONS STA TRK 1 383+00 TO STA TRK 1 392+00
118	UT-111	PROP OH UTIL RELOCATIONS STA TRK 1 392+00 TO STA TRK 1 402+00
119	UT-112	PROP OH UTIL RELOCATIONS STA TRK 1 402+00 TO STA TRK 1 408+50
120	UT-113	PROP OH UTIL RELOCATIONS STA TRK 1 408+50 TO STA TRK 1 417+00
121	UT-114	PROP OH UTIL RELOCATIONS STA TRK 1 417+00 TO STA TRK 1 428+00
122	UT-115	PROP OH UTIL RELOCATIONS STA TRK 1 428+00 TO STA TRK 1 436+00
123	UT-116	PROP OH UTIL RELOCATIONS STA TRK 1 436+00 TO STA TRK 1 444+00
124	UT-117	PROP OH UTIL RELOCATIONS STA TRK 1 444+00 TO STA TRK 1 449+00
125	UT-118	PROP OH UTIL RELOCATIONS STA TRK 1 449+00 TO STA TRK 1 461+00
126	UT-119	PROP OH UTIL RELOCATIONS STA TRK 1 461+00 TO STA TRK 1 472+50
127	UT-120	PROP OH UTIL RELOCATIONS STA TRK 1 472+50 TO STA TRK 1 483+50
128	UT-121	PROP OH UTIL RELOCATIONS STA TRK 1 483+50 TO STA TRK 1 494+50
129	UT-122	PROP OH UTIL RELOCATIONS STA TRK 1 494+50 TO STA TRK 1 505+50
130	UT-123	PROP OH UTIL RELOCATIONS STA TRK 1 505+50 TO STA TRK 1 516+50
131	UT-124	PROP OH UTIL RELOCATIONS STA TRK 1 516+50 TO STA TRK 1 528+00
132	UT-125	PROP OH UTIL RELOCATIONS STA TRK 1 528+00 TO STA TRK 1 539+50
133	UT-126	PROP OH UTIL RELOCATIONS STA TRK 1 539+50 TO STA TRK 1 551+50
134	UT-127	PROP OH UTIL RELOCATIONS STA TRK 1 551+50 TO STA TRK 1 563+50
135	UT-128	PROP OH UTIL RELOCATIONS STA TRK 1 563+50 TO STA TRK 1 575+00
136	UT-129	PROP OH UTIL RELOCATIONS STA TRK 1 575+00 TO STA TRK 1 586+50
137	UT-130	PROP OH UTIL RELOCATIONS STA TRK 1 586+50 TO STA TRK 1 598+00
138	UT-131	PROP OH UTIL RELOCATIONS STA TRK 1 598+00 TO STA TRK 1 604+00

OVERHEAD UTILITY RELOCATION DRAWINGS (CONTINUED)

SHEET NO.	DWG. NO.	DESCRIPTION
139	UT-132	PROP OH UTIL RELOCATIONS STA TRK 1 604+00 TO STA TRK 1 611+50
140	UT-133	PROP OH UTIL RELOCATIONS STA TRK 1 611+50 TO STA TRK 1 622+50
141	UT-134	PROP OH UTIL RELOCATIONS STA TRK 1 622+50 TO STA TRK 1 634+00
142	UT-135	PROP OH UTIL RELOCATIONS STA TRK 1 634+00 TO STA TRK 1 643+00
143	UT-136	PROP OH UTIL RELOCATIONS STA TRK 1 643+00 TO STA TRK 1 653+50
144	UT-137	PROP OH UTIL RELOCATIONS STA TRK 1 653+50 TO STA TRK 1 664+50
145	UT-138	PROP OH UTIL RELOCATIONS STA TRK 1 664+50 TO STA TRK 1 676+00
146	UT-139	PROP OH UTIL RELOCATIONS STA TRK 1 676+00 TO STA TRK 1 687+00
147	UT-140	PROP OH UTIL RELOCATIONS STA TRK 1 687+00 TO STA TRK 1 696+00
148	UT-141	PROP OH UTIL RELOCATIONS STA TRK 1 696+00 TO STA TRK 1 705+50
149	UT-142	PROP OH UTIL RELOCATIONS STA TRK 1 705+50 TO STA TRK 1 715+50
150	UT-143	PROP OH UTIL RELOCATIONS STA TRK 1 715+50 TO STA TRK 1 726+50
151	UT-144	PROP OH UTIL RELOCATIONS STA TRK 1 726+50 TO STA TRK 1 737+50
152	UT-145	PROP OH UTIL RELOCATIONS STA TRK 1 737+50 TO STA TRK 1 747+50
153	UT-146	PROP OH UTIL RELOCATIONS STA TRK 1 747+50 TO STA TRK 1 758+00
154	UT-147	PROP OH UTIL RELOCATIONS STA TRK 1 758+00 TO STA TRK 1 769+00
155	UT-148	PROP OH UTIL RELOCATIONS STA TRK 1 769+00 TO STA TRK 1 779+00
156	UT-149	PROP OH UTIL RELOCATIONS QUESADA ROAD
157	UT-150	PROP OH UTIL RELOCATIONS STA TRK 1 779+00 TO STA TRK 1 788+00
158	UT-151	PROP OH UTIL RELOCATIONS STA TRK 1 788+00 TO STA TRK 1 797+00
159	UT-152	PROP OH UTIL RELOCATIONS STA TRK 1 797+00 TO STA TRK 1 807+00
160	UT-153	PROP OH UTIL RELOCATIONS STA TRK 1 807+00 TO STA TRK 1 818+00
161	UT-154	PROP OH UTIL RELOCATIONS STA TRK 1 818+00 TO STA TRK 1 828+00
162	UT-155	PROP OH UTIL RELOCATIONS STA TRK 1 828+00 TO STA TRK 1 837+00
163	UT-156	PROP OH UTIL RELOCATIONS STA TRK 1 837+00 TO STA TRK 1 846+50
164	UT-157	PROP OH UTIL RELOCATIONS STA TRK 1 846+50 TO STA TRK 1 857+00
165	UT-158	PROP OH UTIL RELOCATIONS STA TRK 1 857+00 TO STA TRK 1 867+00
166	UT-159	PROP OH UTIL RELOCATIONS STA TRK 1 867+00 TO STA TRK 1 877+00
167	UT-160	PROP OH UTIL RELOCATIONS STA TRK 1 877+00 TO STA TRK 1 888+00
168	UT-161	PROP OH UTIL RELOCATIONS STA TRK 1 888+00 TO STA TRK 1 898+00
169	UT-162	PROP OH UTIL RELOCATIONS STA TRK 1 898+00 TO STA TRK 1 909+00
170	UT-163	PROP OH UTIL RELOCATIONS STA TRK 1 909+00 TO STA TRK 1 919+00
171	UT-164	PROP OH UTIL RELOCATIONS STA TRK 1 919+00 TO STA TRK 1 930+00
172	UT-165	PROP OH UTIL RELOCATIONS STA TRK 1 930+00 TO STA TRK 1 939+50
173	UT-166	PROP OH UTIL RELOCATIONS STA TRK 1 939+50 TO STA TRK 1 949+50
174	UT-167	PROP OH UTIL RELOCATIONS STA TRK 1 949+50 TO STA TRK 1 957+50
175	UT-168	PROP OH UTIL RELOCATIONS STA TRK 1 957+50 TO STA TRK 1 963+14

SANITARY SEWER AND WATER PROFILES

SHEET NO.	DWG. NO.	DESCRIPTION
176	UT-169	SANITARY SEWER PROFILE STA TRK 1 111+00 TO STA TRK 1 117+00
177	UT-170	SANITARY SEWER PROFILE STA TRK 1 117+00 TO STA TRK 1 130+50
178	UT-171	SANITARY SEWER PROFILE STA TRK 1 138+50 TO STA TRK 1 187+00
179	UT-172	SANITARY SEWER PROFILE STA TRK 1 235+00 TO STA TRK 1 236+00
180	UT-173	SANITARY SEWER PROFILE STA TRK 1 244+00 TO STA TRK 1 247+00
181	UT-174	WATER LINE PROFILE STA TRK 1 206+00 TO STA TRK 1 235+00
182	UT-175	SANITARY SEWER PROFILE STA TRK 1 264+00 TO STA TRK 1 273+76
183	UT-176	SANITARY SEWER PROFILE STA TRK 1 301+40 TO STA TRK 1 310+08
184	UT-177	SANITARY SEWER PROFILE STA TRK 1 328+15 TO STA TRK 1 331+38
185	UT-178	SANITARY SEWER PROFILE STA TRK 1 301+93 TO STA TRK 1 339+75
186	UT-179	WATER LINE PROFILE STA TRK 1 267+30 TO STA TRK 1 296+90
187	UT-180	WATER LINE PROFILE STA TRK 1 292+77 TO STA TRK 1 296+96
188	UT-181	WATER LINE PROFILE STA TRK 1 301+76 TO STA TRK 1 312+40
189	UT-182	WATER LINE PROFILE STA TRK 1 312+47 TO STA TRK 1 335+00
190	UT-183	WATER LINE PROFILE STA TRK 1 327+28 TO STA TRK 1 342+69
191	UT-184	WATER LINE PROFILE STA TRK 1 335+41 TO STA TRK 1 345+10
192	UT-185	SANITARY SEWER PROFILE STA TRK 1 343+50 TO STA TRK 1 368+05
193	UT-186	SANITARY SEWER PROFILE STA TRK 1 362+85 TO STA TRK 1 371+55
194	UT-187	SANITARY SEWER PROFILE STA TRK 1 354+10 TO STA TRK 1 362+85
195	UT-188	SANITARY SEWER PROFILE STA TRK 1 367+00 TO STA TRK 1 378+30
196	UT-189	SANITARY SEWER PROFILE STA TRK 1 379+85 TO STA TRK 1 396+92
197	UT-190	SANITARY SEWER PROFILE STA TRK 1 398+90 TO STA TRK 1 445+65
198	UT-191	SANITARY SEWER PROFILE STA TRK 1 404+80 TO STA TRK 1 411+22
199	UT-192	SANITARY SEWER PROFILE STA TRK 1 396+19 TO STA TRK 1 442+95
200	UT-193	WATER LINE PROFILE STA TRK 1 352+38 TO STA TRK 1 361+00
201	UT-194	WATER LINE PROFILE STA TRK 1 361+00 TO STA TRK 1 370+68
202	UT-195	WATER LINE PROFILE STA TRK 1 347+71 TO STA TRK 1 369+99
203	UT-196	WATER LINE PROFILE STA TRK 1 369+97 TO STA TRK 1 377+88
204	UT-197	WATER LINE PROFILE STA TRK 1 378+35 TO STA TRK 1 395+06
205	UT-198	WATER LINE PROFILE STA TRK 1 381+41 TO STA TRK 1 390+15
206	UT-199	WATER LINE PROFILE STA TRK 1 396+35 TO STA TRK 1 402+00
207	UT-200	WATER LINE PROFILE STA TRK 1 397+88 TO STA TRK 1 407+81

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No. _____ Expiration Date _____

DRAFT: Information shown is based on 30 percent preliminary engineering plans and may be subject to further revision pending refinements to the plans during the completion of the design phase. Any reliance upon any of these plans is made with full understanding of its draft status.

DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

INDEX OF SHEETS – VOLUME 5
SHEET 1

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220

DRAWING NO. GI-5101

SHEET NO. 6 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 05\1042gi5101.dgn
12/11/2013

INDEX OF DRAWINGS - VOLUME 5

SHEET NO.	DWG. NO.	DESCRIPTION
SANITARY SEWER AND WATER PROFILES (CONTINUED)		
208	UT-201	WATER LINE PROFILE STA TRK 1 401+11 TO STA TRK 1 411+82
209	UT-202	WATER LINE PROFILE STA TRK 1 410+83 TO STA TRK 1 421+81
210	UT-203	SANITARY SEWER PROFILE STA TRK 1 442+95 TO STA TRK 1 450+95
211	UT-204	WATER LINE PROFILE STA TRK 1 433+96 TO STA TRK 1 445+67
212	UT-205	WATER LINE PROFILE STA TRK 1 430+50 TO STA TRK 1 450+50
213	UT-206	WATER LINE PROFILE STA TRK 1 451+25 TO STA TRK 1 472+50
214	UT-207	WATER LINE PROFILE STA TRK 1 451+25 TO STA TRK 1 472+50
215	UT-208	WATER LINE PROFILE STA TRK 1 472+85 TO STA TRK 1 495+00
216	UT-209	WATER LINE PROFILE STA TRK 1 472+85 TO STA TRK 1 495+00
217	UT-210	WATER LINE PROFILE STA TRK 1 455+84 TO STA TRK 1 470+50
218	UT-211	WATER LINE PROFILE STA TRK 1 486+00, 456+07 AND 406+12
219	UT-212	WATER LINE PROFILE STA TRK 1 499+46 TO STA TRK 1 509+40
220	UT-213	WATER LINE PROFILE STA TRK 1 517+19 TO 525+07 AND 509+06
221	UT-214	WATER LINE PROFILE STA TRK 1 517+53 TO STA TRK 1 535+77
222	UT-215	WATER LINE PROFILE STA TRK 1 538+85 TO STA TRK 1 563+82
223	UT-216	WATER LINE PROFILE STA TRK 1 568+50 TO STA TRK 1 592+00
224	UT-217	SANITARY SEWER PROFILE STA TRK 1 641+82 TO STA TRK 1 659+90
225	UT-218	SANITARY SEWER PROFILE STA TRK 1 651+00 TO STA TRK 1 665+57
226	UT-219	SANITARY SEWER PROFILE STA TRK 1 651+00 TO STA TRK 1 665+57
227	UT-220	SANITARY SEWER PROFILE STA TRK 1 666+68 TO STA TRK 1 676+82
228	UT-221	SANITARY SEWER PROFILE STA TRK 1 692+40 TO STA TRK 1 695+00
229	UT-222	SANITARY SEWER PROFILE STA TRK 1 700+18
230	UT-223	WATER LINE PROFILE STA TRK 1 625+15 TO STA TRK 1 627+91
231	UT-224	WATER LINE PROFILE STA TRK 1 629+87 TO STA TRK 1 639+00
232	UT-225	WATER LINE PROFILE STA TRK 1 635+18 TO STA TRK 1 639+60
233	UT-226	WATER LINE PROFILE STA TRK 1 641+70 TO STA TRK 1 651+00
234	UT-227	WATER LINE PROFILE STA TRK 1 654+00 TO STA TRK 1 659+70
235	UT-228	WATER LINE PROFILE STA TRK 1 665+30 TO STA TRK 1 668+35
236	UT-229	WATER LINE PROFILE STA TRK 1 673+95 TO STA TRK 1 674+50
237	UT-230	WATER LINE PROFILE STA TRK 1 675+50 TO STA TRK 1 693+23
238	UT-231	WATER LINE PROFILE STA TRK 1 695+00 TO STA TRK 1 700+53
239	UT-232	SANITARY SEWER PROFILE STA TRK 1 710+89
240	UT-233	SANITARY SEWER PROFILE STA TRK 1 771+50 TO STA TRK 1 779+45
241	UT-234	SANITARY SEWER PROFILE STA TRK 1 779+40 TO STA TRK 1 784+50
242	UT-235	SANITARY SEWER PROFILE STA TRK 1 792+00 TO STA TRK 1 811+22
243	UT-236	SANITARY SEWER PROFILE STA TRK 1 831+50 TO STA TRK 1 840+90
244	UT-237	SANITARY SEWER PROFILE STA TRK 1 831+50 TO STA TRK 1 836+47
245	UT-238	WATER LINE PROFILE STA TRK 1 734+00 TO STA TRK 1 745+00
246	UT-239	WATER LINE PROFILE STA TRK 1 760+00 TO STA TRK 1 784+50
247	UT-240	WATER LINE PROFILE STA TRK 1 760+00 TO STA TRK 1 784+50
248	UT-241	WATER LINE PROFILE STA TRK 1 760+00 TO STA TRK 1 784+50
249	UT-242	WATER LINE PROFILE STA TRK 1 779+00 TO STA TRK 1 791+50
250	UT-243	WATER LINE PROFILE STA TRK 1 792+00 TO STA TRK 1 811+50
251	UT-244	WATER LINE PROFILE STA TRK 1 815+00 TO STA TRK 1 823+75
252	UT-245	WATER LINE PROFILE STA TRK 1 833+00 TO STA TRK 1 841+60
253	UT-246	WATER LINE PROFILE STA TRK 1 837+00 TO STA TRK 1 842+00
254	UT-247	SANITARY SEWER PROFILE STA TRK 1 921+70 TO STA TRK 1 932+88
255	UT-248	SANITARY SEWER PROFILE STA TRK 1 935+00 TO STA TRK 1 936+00
256	UT-249	WATER LINE PROFILE STA TRK 1 878+00 TO STA TRK 1 887+00
257	UT-250	WATER LINE PROFILE STA TRK 1 904+00 TO STA TRK 1 938+00
258	UT-251	WATER LINE PROFILE STA TRK 1 935+00 TO STA TRK 1 936+00
259	UT-252	WATER LINE PROFILE STA TRK 1 947+50 TO STA TRK 1 950+00

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

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License No. _____ Expiration Date _____

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

INDEX OF SHEETS – VOLUME 5
SHEET 2

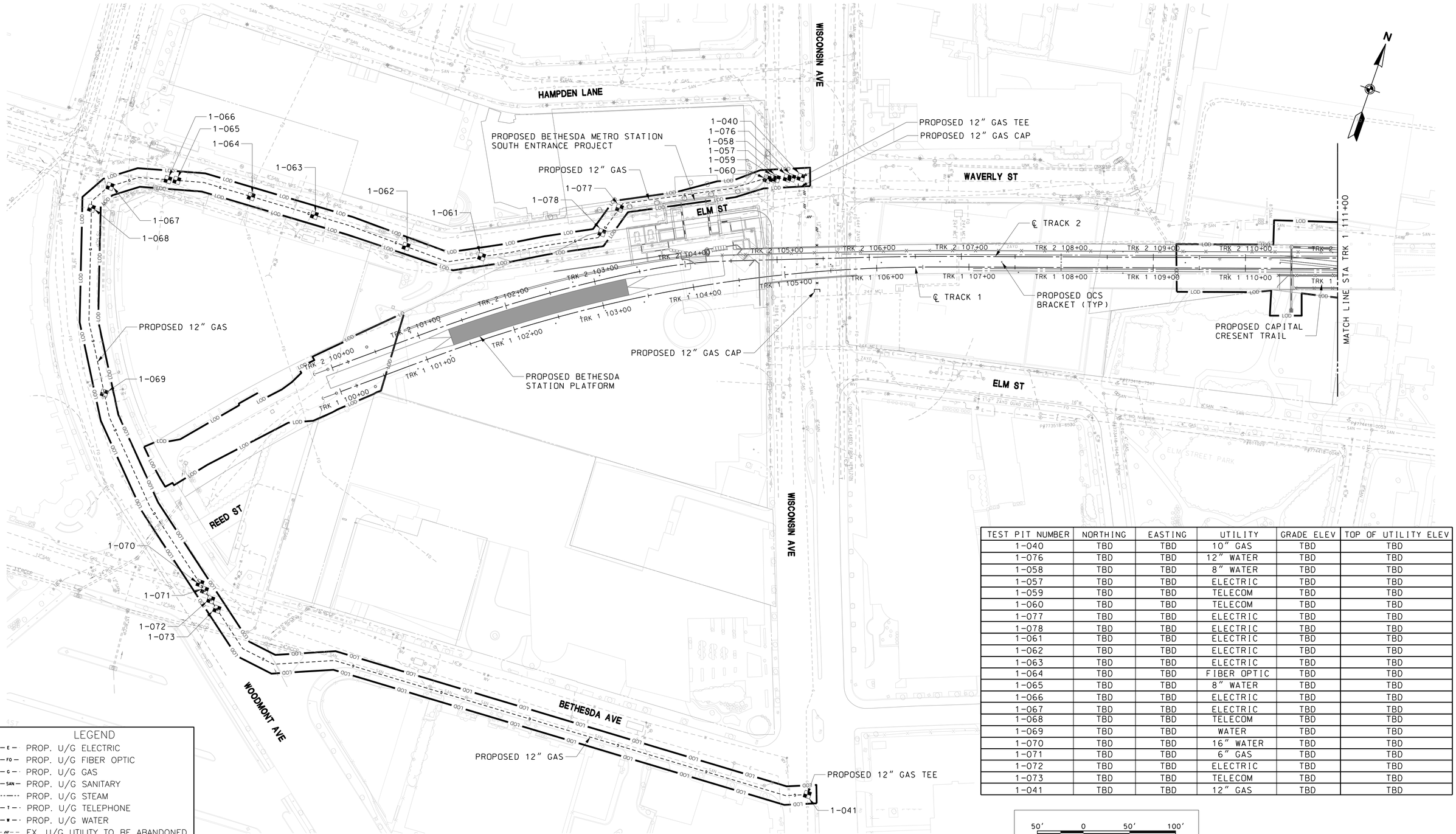
DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T–1042–0220

DRAWING NO. GI–5102

SHEET NO. 7 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 – Preliminary Engineering\Volume 05\1042gi5102.dgn
12/11/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-040	TBD	TBD	10" GAS	TBD	TBD
1-076	TBD	TBD	12" WATER	TBD	TBD
1-058	TBD	TBD	8" WATER	TBD	TBD
1-057	TBD	TBD	ELECTRIC	TBD	TBD
1-059	TBD	TBD	TELECOM	TBD	TBD
1-060	TBD	TBD	TELECOM	TBD	TBD
1-077	TBD	TBD	ELECTRIC	TBD	TBD
1-078	TBD	TBD	ELECTRIC	TBD	TBD
1-061	TBD	TBD	ELECTRIC	TBD	TBD
1-062	TBD	TBD	ELECTRIC	TBD	TBD
1-063	TBD	TBD	ELECTRIC	TBD	TBD
1-064	TBD	TBD	FIBER OPTIC	TBD	TBD
1-065	TBD	TBD	8" WATER	TBD	TBD
1-066	TBD	TBD	ELECTRIC	TBD	TBD
1-067	TBD	TBD	ELECTRIC	TBD	TBD
1-068	TBD	TBD	TELECOM	TBD	TBD
1-069	TBD	TBD	WATER	TBD	TBD
1-070	TBD	TBD	16" WATER	TBD	TBD
1-071	TBD	TBD	6" GAS	TBD	TBD
1-072	TBD	TBD	ELECTRIC	TBD	TBD
1-073	TBD	TBD	TELECOM	TBD	TBD
1-041	TBD	TBD	12" GAS	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

50' 0 50' 100'
SCALE: 1"=50'

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming
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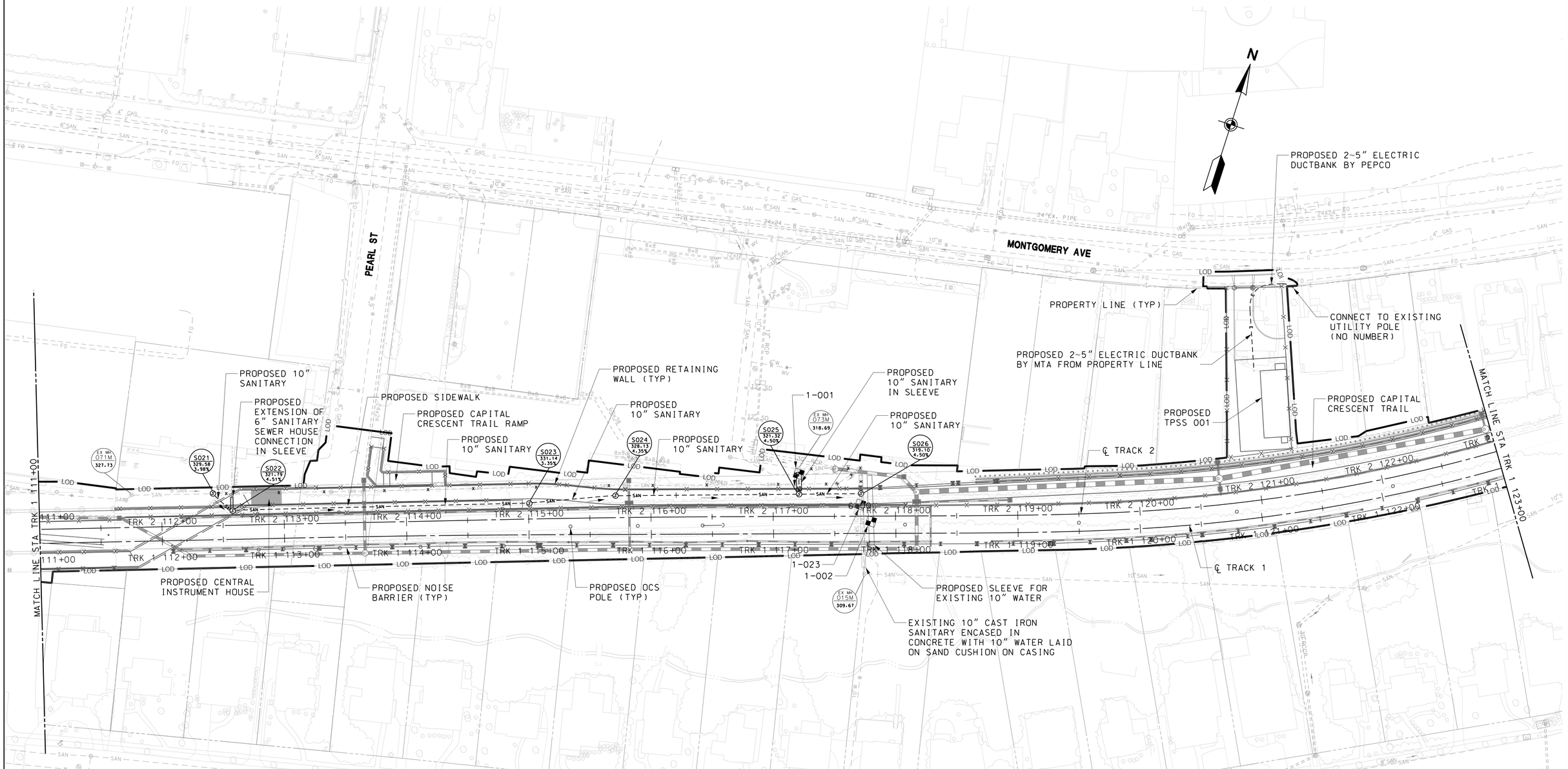
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 100+00 TO STA TRK 1 111+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-001
SHEET NO. 8 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U01.dgn
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-001	TBD	TBD	10" WATER	TBD	TBD
1-023	TBD	TBD	10" SANITARY CASING	TBD	TBD
1-002	TBD	TBD	10" WATER	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
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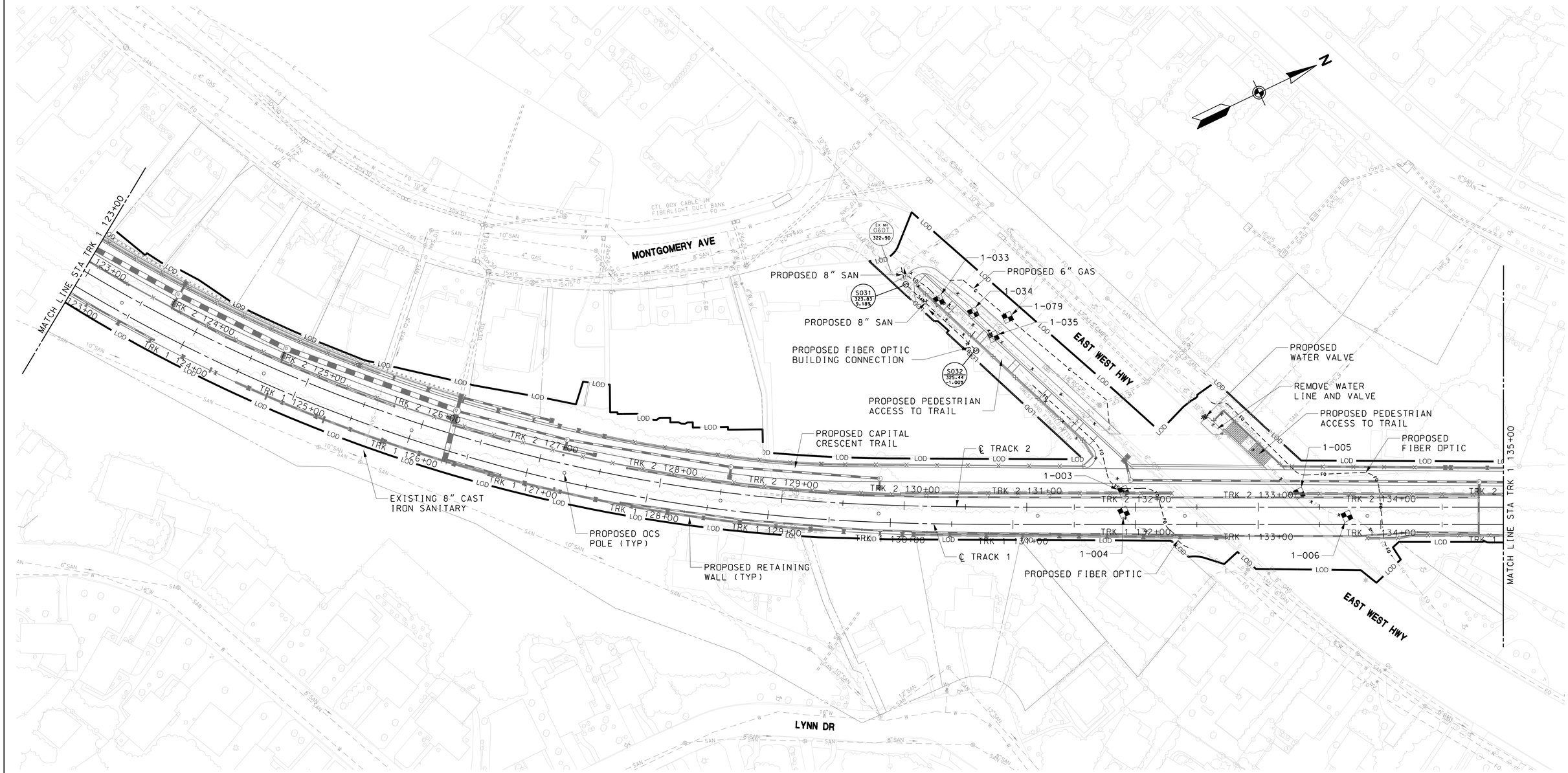
DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 111+00 TO STA TRK 1 123+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-002
SHEET NO. 9 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U02.dgn
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-033	480469.96	1287776.16	FIBER OPTIC	325.34	316.45
1-034	480490.85	1287797.39	6" GAS	325.59	322.91
1-035	480497.52	1287821.78	ELECTRIC	325.90	318.59
1-079	TBD	TBD	ELECTRIC	TBD	TBD
1-003	480538.91	1287981.61	FIBER OPTIC	299.72	297.95
1-004	480531.60	1287996.93	FIBER OPTIC	300.59	298.75
1-005	480667.31	1288044.57	FIBER OPTIC	297.71	294.61
1-006	480694.58	1288078.32	FIBER OPTIC	297.97	295.15

40′ 0 40′ 80′
SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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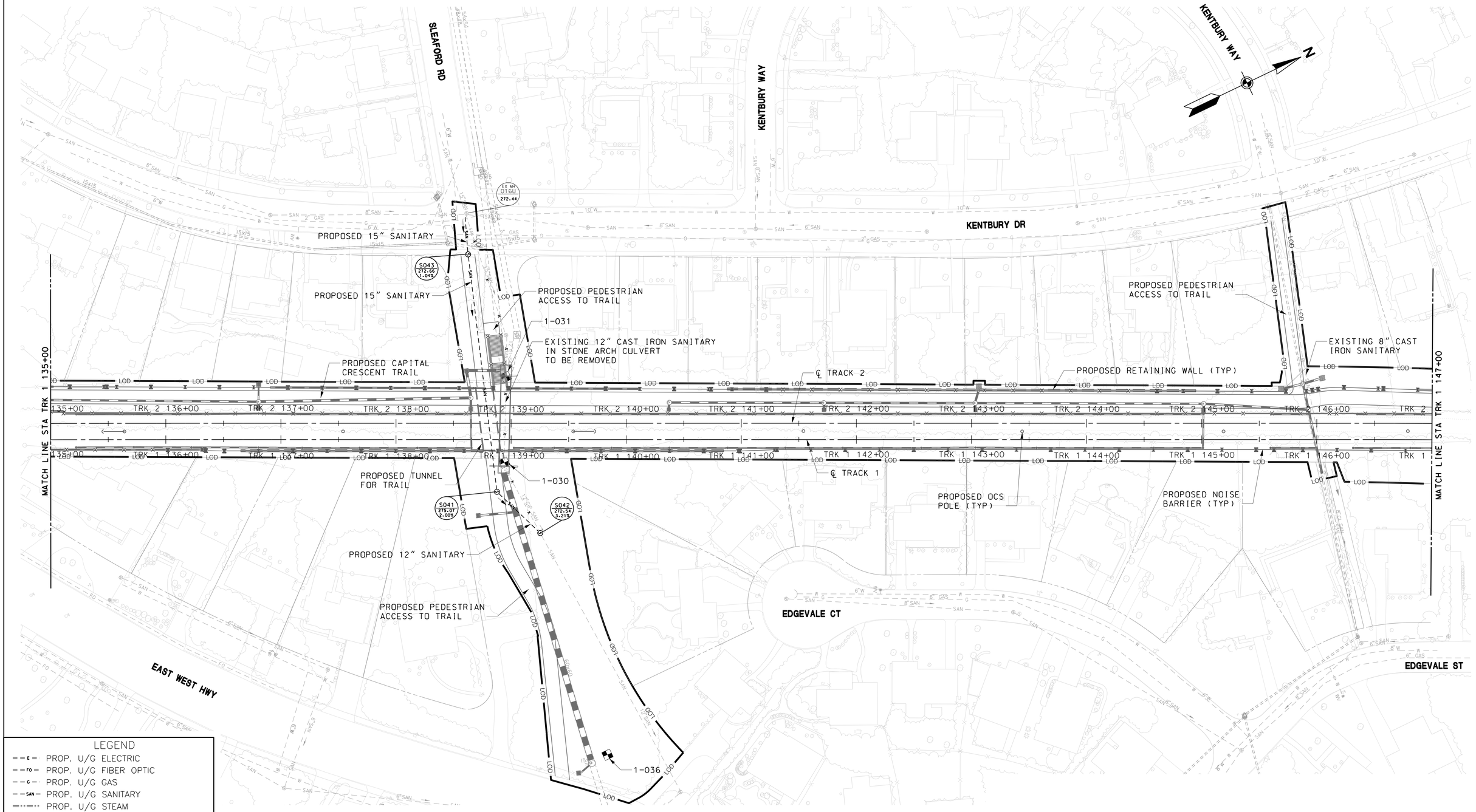
DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 123+00 TO STA TRK 1 135+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-003
SHEET NO. 10 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U03.dgn
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-030	TBD	TBD	CULVERT	TBD	TBD
1-031	TBD	TBD	CULVERT	TBD	TBD
1-036	481124.47	1288595.44	60" STORM	301.00	291.62

40' 0 40' 80'
SCALE: 1"=40'

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 135+00 TO STA TRK 1 147+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-004
SHEET NO. 11 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U04.dgn
12/10/2013

KENTBURY DR

COLUMBIA COUNTRY CLUB

N

MATCH LINE STA TRK 1 147+00

MATCH LINE STA TRK 1 159+00

LOD

TRK 2 147+00 | TRK 2 148+00 | TRK 2 149+00 | TRK 2 150+00 | TRK 2 151+00 | TRK 2 152+00 | TRK 2 153+00 | TRK 2 154+00 | TRK 2 155+00 | TRK 2 156+00 | TRK 2 157+00 | TRK 2 158+00 | TRK 2 159+00

TRK 1 147+00 | TRK 1 148+00 | TRK 1 149+00 | TRK 1 150+00 | TRK 1 151+00 | TRK 1 152+00 | TRK 1 153+00 | TRK 1 154+00 | TRK 1 155+00 | TRK 1 156+00 | TRK 1 157+00 | TRK 1 158+00 | TRK 1 159+00

1-024

1-025

ADJUST RIM ELEVATION TO MATCH PROPOSED GRADE

PROPOSED CAPITAL CRESCENT TRAIL

PROPOSED OCS POLE (TYP)

℄ TRACK 2

℄ TRACK 1

PROPOSED TUNNEL FOR GOLF CART UNDERPASS

PROPOSED RETAINING WALL (TYP)

EXISTING 10" CAST IRON SANITARY ENCASED IN CONCRETE

12"SAN

8"SAN

NO UNDERGROUND UTILITY RELOCATIONS FROM STA TRK 1 147+00 TO TRK 1 159+00

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-024	TBD	TBD	10" SANITARY CASING	TBD	TBD
1-025	TBD	TBD	10" SANITARY CASING	TBD	TBD

40' 0 40' 80'

SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS

STA TRK 1 147+00 TO STA TRK 1 159+00

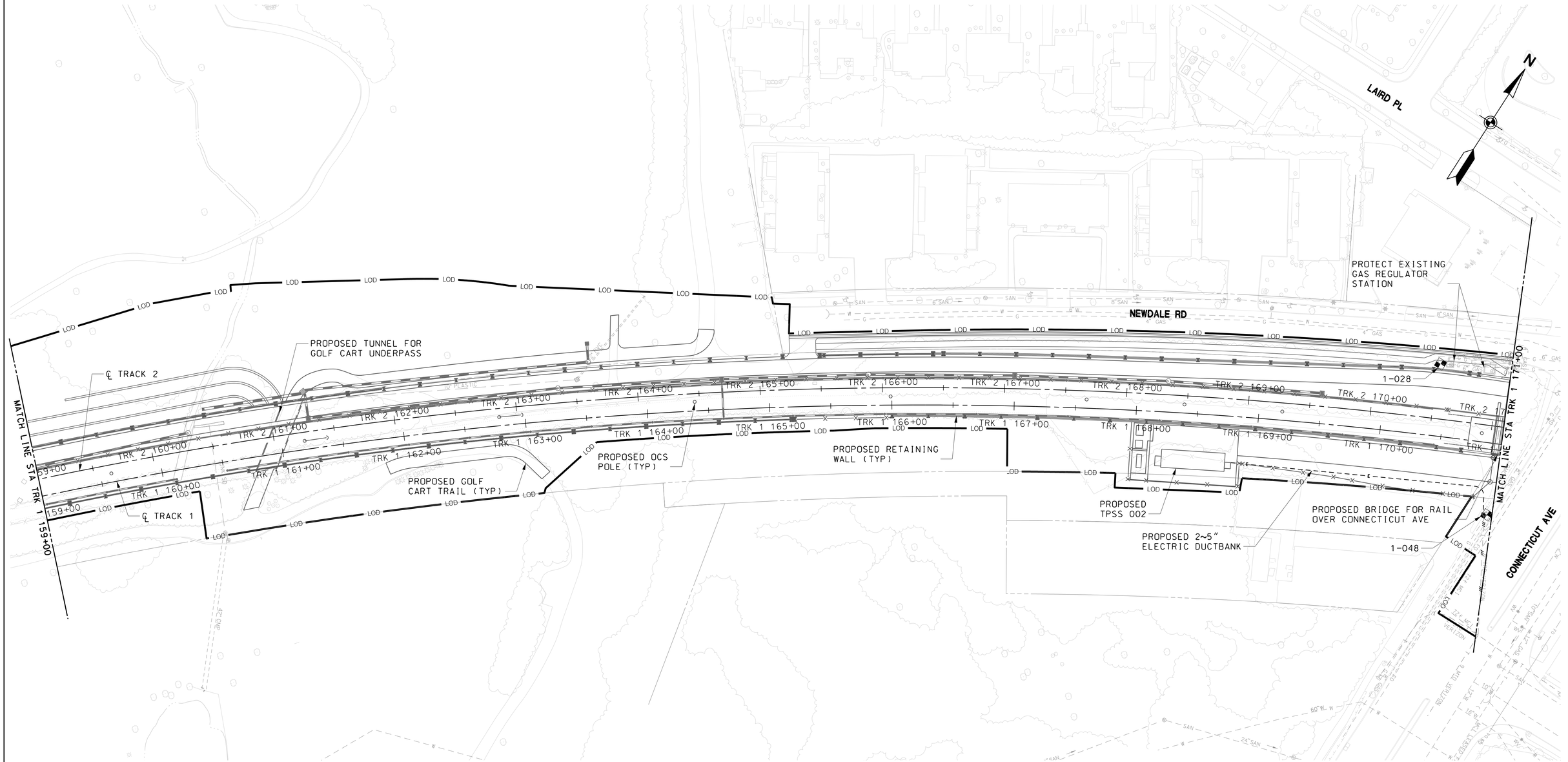
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-005

SHEET NO. 12 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U05.dgn
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-028	TBD	TBD	6" GAS	TBD	TBD
1-048	TBD	TBD	8" GAS	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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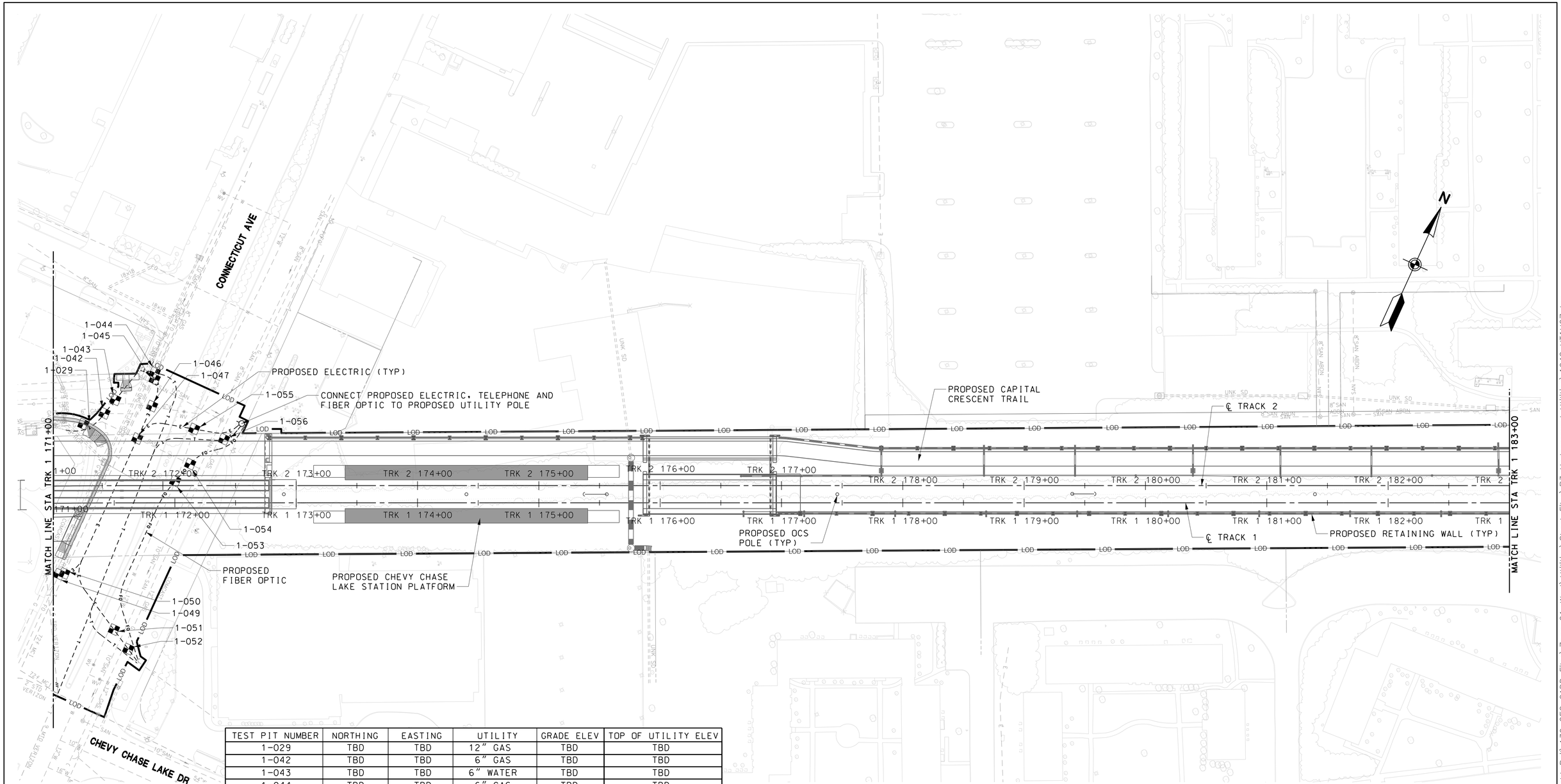
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 159+00 TO STA TRK 1 171+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-006
SHEET NO. 13 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U06.dgn
12/10/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-029	TBD	TBD	12" GAS	TBD	TBD
1-042	TBD	TBD	6" GAS	TBD	TBD
1-043	TBD	TBD	6" WATER	TBD	TBD
1-044	TBD	TBD	6" GAS	TBD	TBD
1-045	TBD	TBD	8" GAS	TBD	TBD
1-049	TBD	TBD	FIBER OPTIC	TBD	TBD
1-050	TBD	TBD	TELECOM	TBD	TBD
1-046	TBD	TBD	6" WATER	TBD	TBD
1-047	TBD	TBD	12" GAS	TBD	TBD
1-051	TBD	TBD	12" WATER	TBD	TBD
1-052	TBD	TBD	12" GAS	TBD	TBD
1-053	TBD	TBD	12" WATER	TBD	TBD
1-054	TBD	TBD	12" GAS	TBD	TBD
1-055	TBD	TBD	12" WATER	TBD	TBD
1-056	TBD	TBD	12" GAS	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

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DESGN | DRAWN | CHECK | APPR

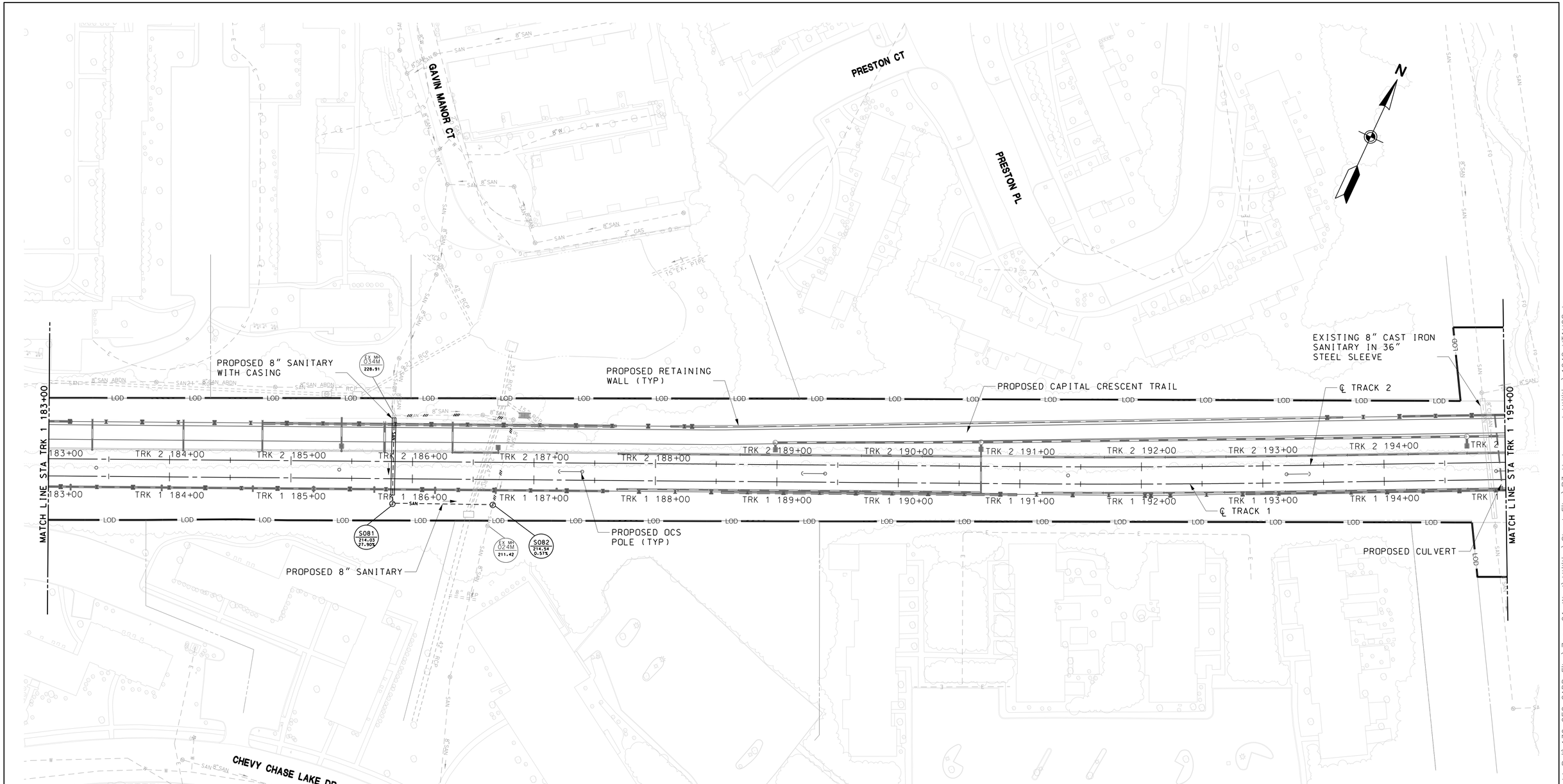
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 171+00 TO STA TRK 1 183+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-007
SHEET NO. 14 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U07.dgn
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

40' 0 40' 80'
SCALE: 1"=40'

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MARYLAND TRANSIT ADMINISTRATION

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 183+00 TO STA TRK 1 195+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-008

SHEET NO. 15 OF 259

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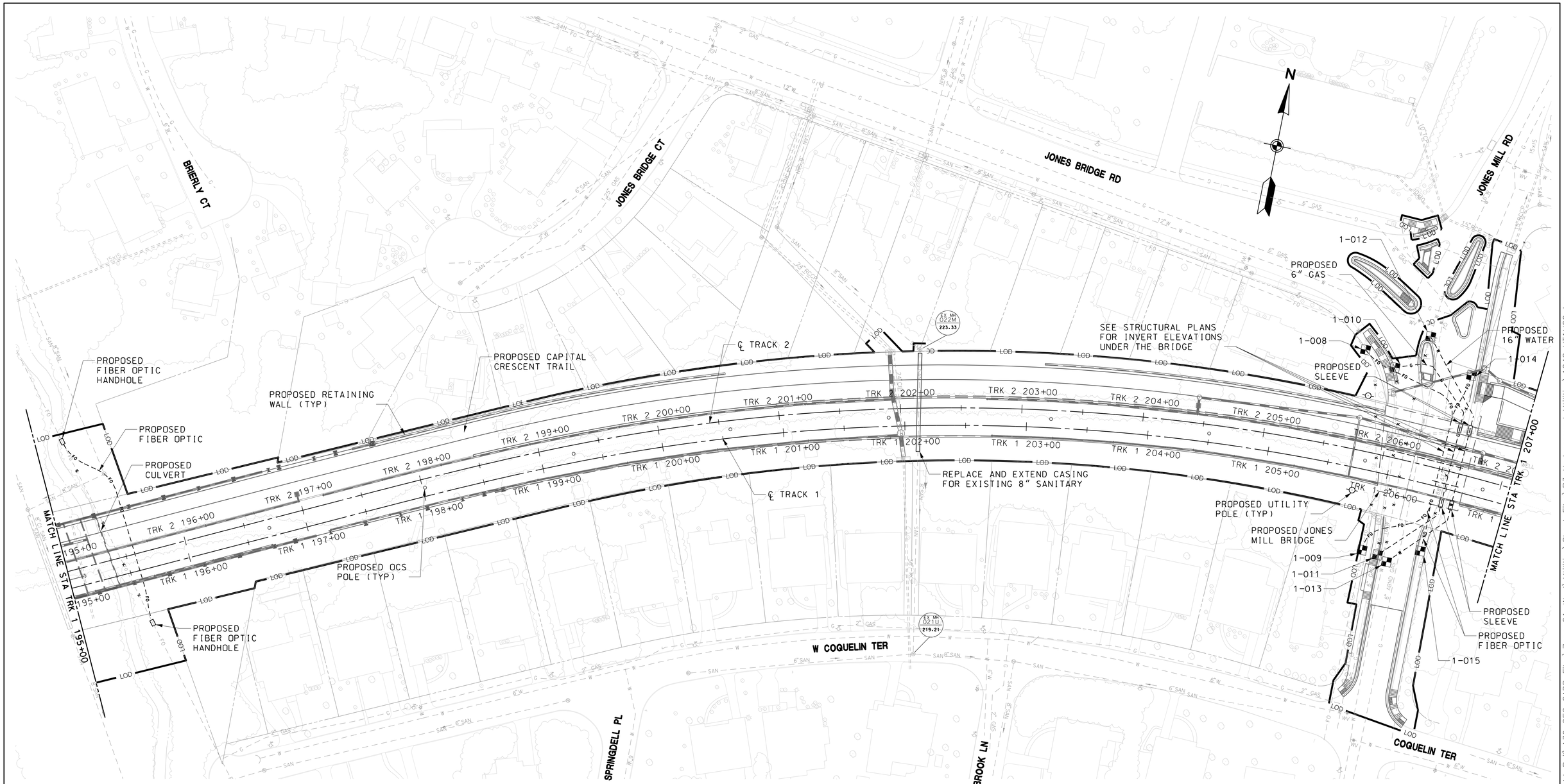
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-008	TBD	TBD	FIBER OPTIC	TBD	TBD
1-009	TBD	TBD	FIBER OPTIC	TBD	TBD
1-010	TBD	TBD	6" GAS	TBD	TBD
1-011	TBD	TBD	6" GAS	TBD	TBD
1-012	TBD	TBD	16" WATER	TBD	TBD
1-013	TBD	TBD	16" WATER	TBD	TBD
1-014	TBD	TBD	FIBER OPTIC	TBD	TBD
1-015	TBD	TBD	FIBER OPTIC	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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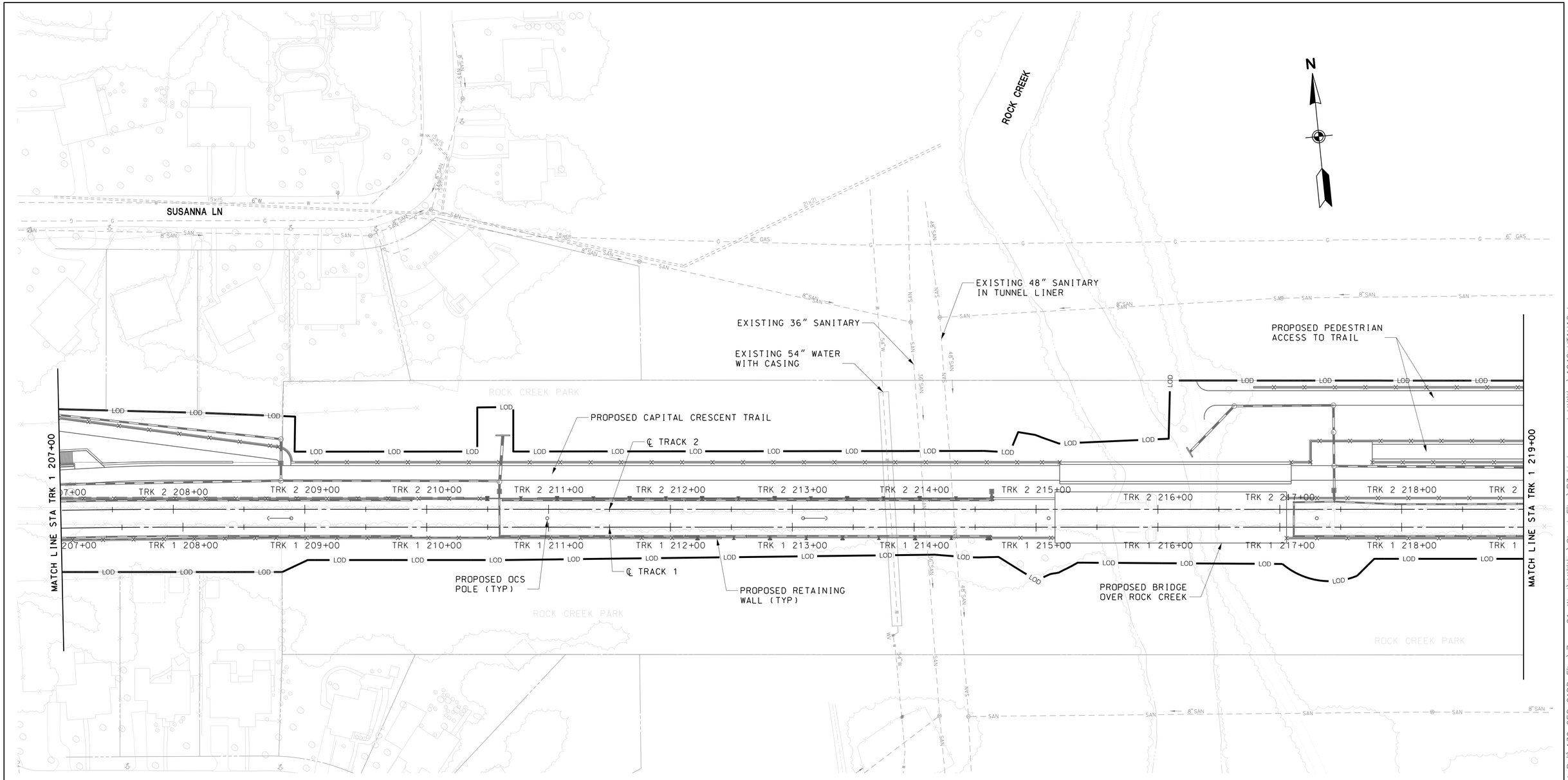
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 195+00 TO STA TRK 1 207+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-009
SHEET NO. 16 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U09.dgn
12/10/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

NO UNDERGROUND UTILITY RELOCATIONS
FROM STA TRK 1 207+00 TO TRK 1 219+00

40′ 0 40′ 80′
SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

PROFESSIONAL CERTIFICATION

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License No. Expiration Date

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 207+00 TO STA TRK 1 219+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-010
SHEET NO. 17 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U10.dgn
12/10/2013

PROPOSED ELECTRIC VAULT

PROPOSED 2-5" ELECTRIC DUCTBANK BY PEPCO

BROOKVILLE RD

N

PROPOSED PEDESTRIAN ACCESS TO TRAIL

PROPOSED TPSS 003

PROPOSED CENTRAL INSTRUMENT HOUSE

PROPOSED 2-5" ELECTRIC DUCTBANK BY MTA

MATCH LINE STA TRK 1 219+00

MATCH LINE STA TRK 1 231+00

℄ TRACK 2

℄ TRACK 1

PROPOSED RETAINING WALL (TYP)

PROPOSED OCS POLE (TYP)

PROPOSED CAPITAL CRESCENT TRAIL

PROPOSED 16" WATER

PROPOSED UTILITY POLE

1-016

GRUBB RD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-016	TBD	TBD	16" WATER	TBD	TBD

40' 0 40' 80'

SCALE: 1"=40'

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MARYLAND TRANSIT ADMINISTRATION

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS

STA TRK 1 219+00 TO STA TRK 1 231+00

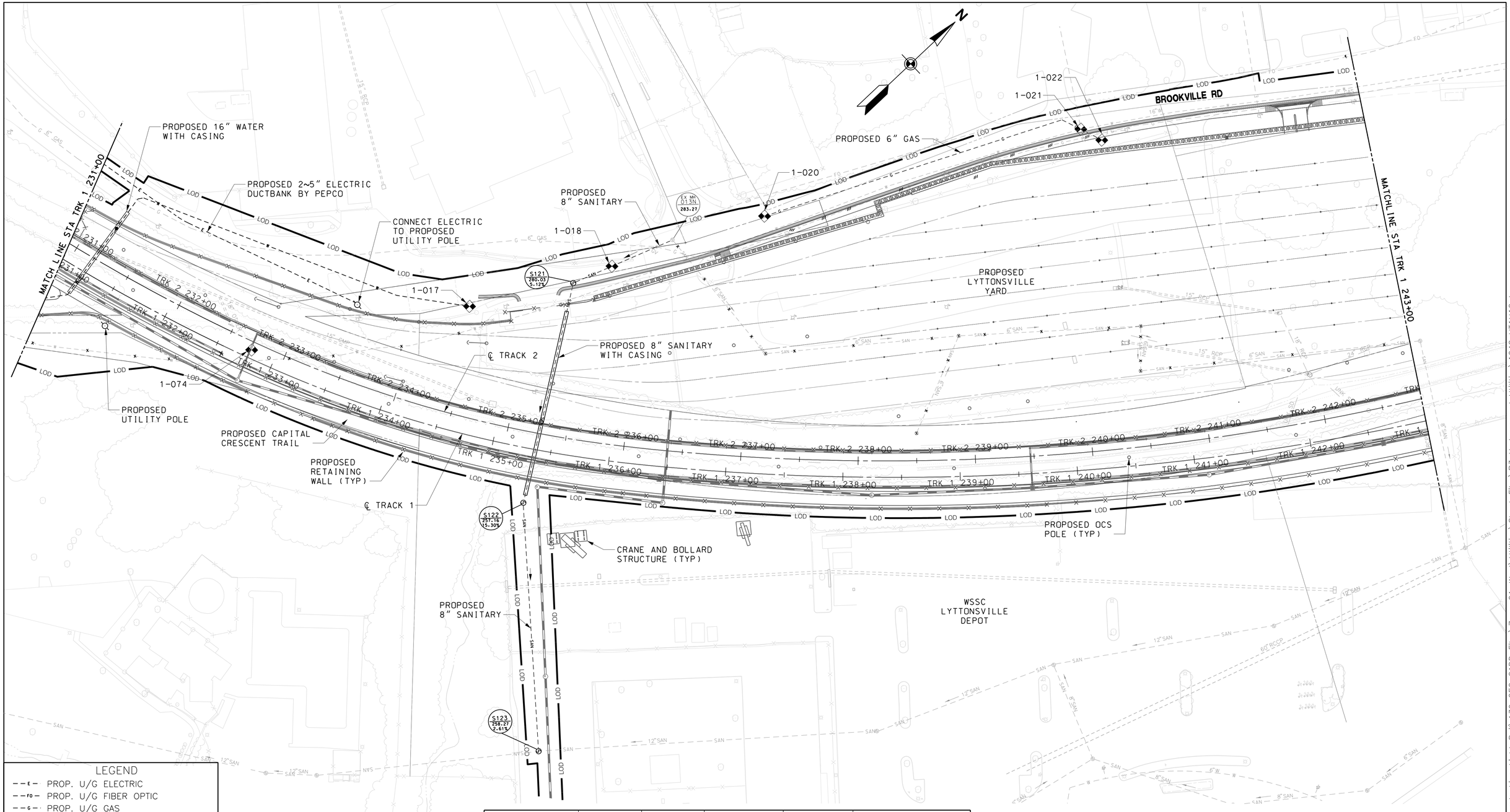
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-011

SHEET NO. 18 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U11.dgn
12/10/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-074	TBD	TBD	16" WATER	TBD	TBD
1-017	TBD	TBD	16" WATER	TBD	TBD
1-018	TBD	TBD	16" WATER	TBD	TBD
1-020	TBD	TBD	6" GAS	TBD	TBD
1-021	TBD	TBD	16" WATER	TBD	TBD
1-022	TBD	TBD	6" GAS	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 231+00 TO STA TRK 1 243+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-012
SHEET NO. 19 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U12.dgn
12/10/2013

1-075
1-026
1-027
PROPOSED ELECTRIC AND FIBER OPTIC MANHOLES
PROPOSED LYTTONSVILLE PLACE OVERPASS
PROPOSED UTILITY POLE
BROOKVILLE RD
ALL BUILDING SERVICES TO BE REMOVED
PROPOSED CENTRAL INSTRUMENT HOUSE
PROPOSED OCS POLE (TYP)
℄ TRACK 2
℄ TRACK 1
MATCH LINE STA TRK 1 243+00
MATCH LINE STA TRK 1 255+00
TRK 2 243+00
TRK 2 245+00
TRK 2 246+00
TRK 2 247+00
TRK 2 248+00
TRK 2 249+00
TRK 2 250+00
TRK 2 251+00
TRK 2 252+00
TRK 2 253+00
TRK 2 254+00
TRK 2 255+00
TRK 1 243+00
TRK 1 244+00
TRK 1 245+00
TRK 1 246+00
TRK 1 247+00
TRK 1 248+00
TRK 1 249+00
TRK 1 250+00
TRK 1 251+00
TRK 1 252+00
TRK 1 253+00
TRK 1 254+00
TRK 1 255+00
S132 279.15 0.18%
S131 280.82 1.44%
S133 279.86 1.07%
S134 283.24 1.71%
EX MH 206M 278.54
1-034S
1-033S
1-032
PROPOSED 12" SANITARY WITH CASING
PROPOSED 12" SANITARY
PROPOSED 12" SANITARY
LYTTONSVILLE PL
PROPOSED ELECTRIC AND FIBER OPTIC TO BE HUNG FROM BRIDGE
PROPOSED LYTTONSVILLE STATION PLATFORM
PROPOSED CAPITAL CRESCENT TRAIL
PROPOSED RETAINING WALL (TYP)

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
1-075	TBD	TBD	FIBER OPTIC	TBD	TBD
1-026	TBD	TBD	16" WATER	TBD	TBD
1-027	TBD	TBD	6" GAS	TBD	TBD
1-032	TBD	TBD	60" STORM	TBD	TBD
1-033S	TBD	TBD	60" STORM	TBD	TBD
1-034S	TBD	TBD	60" STORM	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland
Gannett Fleming
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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 243+00 TO STA TRK 1 255+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-013
SHEET NO. 20 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Underground Utilities\1042pUT1U13.dgn
12/10/2013

BROOKVILLE RD

PERKINS PL

TALBOT AVE

STEWART AVE

KANSAS AVE

PENNSYLVANIA AVE

PROPOSED TRAFFIC SIGNAL CONDUITS

PROPOSED GATE (TYP)

EMBEDDED TRACKS

BEGIN PROPOSED RETAINING WALL

℄ TRACK 2

℄ TRACK 1

PROPOSED OCS POLE (TYP)

END PROPOSED RETAINING WALL

PROPOSED CAPITAL CRESCENT TRAIL

PROPOSED 10" SANITARY

PROPOSED 10" SANITARY WITH 22" CASING

PROPOSED RETAINING WALL

PROPOSED 2-5" ELECTRICAL DUCTBANK BY PEPCO

MATCH LINE STA TRK 1 267+00

PROPOSED COMMERCIAL ACCESS DRIVEWAY

2-001

PROPOSED CAPITAL CRESCENT TRAIL

2' PERVIOUS PAVEMENT

PROPOSED RETAINING WALL

PROPOSED GATE (TYP)

SWMP

MATCH LINE STA TRK 1 255+00

TRK 2 255+00

TRK 2 256+00

TRK 2 257+00

TRK 2 258+00

TRK 2 259+00

TRK 2 260+00

TRK 2 261+00

TRK 2 262+00

TRK 2 263+00

TRK 2 264+00

TRK 2 265+00

TRK 2 266+00

TRK 1 255+00

TRK 1 256+00

TRK 1 257+00

TRK 1 258+00

TRK 1 259+00

TRK 1 260+00

TRK 1 261+00

TRK 1 262+00

TRK 1 263+00

TRK 1 264+00

TRK 1 265+00

TRK 1 266+00

Ex MH 007-U 320.35

Ex MH 006-M 307.71

S1404 308.33 0.00%

N

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-001	TBD	TBD	10" WATER	TBD	TBD

40' 0 40' 80'

SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

JACOBS

STV

STV Incorporated

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS

STA TRK 1 255+00 TO STA TRK 1 267+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-014

SHEET NO. 21 OF 259

c:\pwworking\mtapw\je-brenda.duong\dms98652\1042pUT2U01.dgn
12/18/2013

LUZERNE AVE

LOUIS AVE

HANOVER ST

N

PROPOSED SIDEWALK

4TH AVE

PROPOSED FIBER OPTIC

RELOCATED SIDETRACK

CSX TRACK ℄

BEGIN PROPOSED RETAINING WALL

REMOVE EXISTING FIBER OPTIC

PROPOSED RETAINING WALL

℄ TRACK 2

PROPOSED FIBER OPTIC

PROPOSED CAPITAL CRESCENT TRAIL

TALBOT AVE

PROPOSED BRIDGE

MATCH LINE STA TRK 1 279+00

2-002A

2-004

EXTEND EXISTING 36" CASING FOR 6" WATER

EXTEND EXISTING 12" STEEL CASING FOR 6"GAS

PROPOSED CAPITAL CRESCENT TRAIL

℄ TRACK 1 TALBOT AVE

PROPOSED OCS POLE (TYP)

MATCH LINE STA TRK 1 267+00

KANSAS AVE

PROPOSED TRACTION POWER SUBSTATION (TPSS)

PROPOSED TPSS GROUNDING BED

PROPOSED 6'X12' ELECTRICAL MANHOLE

PROPOSED 2-5" ELECTRICAL DUCTBANK BY PEPCO

PROPOSED 2-5" ELECTRICAL DUCTBANK BY MTA FROM PROPERTY LINE

S1505 329.64 2.24%

2-008

REMOVE EXISTING 2" GAS

PROPOSED 8" SANITARY

PROPOSED 2" GAS

PROPOSED 6" WATER

PROPOSED FIRE HYDRANT

MICHIGAN AVE

RELOCATED VERIZON HAND BOXES

EX MH 0.24 NE 335.53 0.00%

PROPOSED UNDERGROUND ELECTRIC CONNECTION

2-009

PROPOSED FIRE HYDRANT

PROPOSED RETAINING WALL

ABANDON EXISTING WATER

LANIER DR

PROPOSED 8" WATER

MET CONDUIT ELEC BOX

TRK 2 268+00 TRK 2 269+00 TRK 2 270+00 TRK 2 271+00 TRK 2 272+00 TRK 2 273+00 TRK 2 274+00 TRK 2 275+00 TRK 2 276+00 TRK 2 277+00 TRK 2 278+00

TRK 1 268+00 TRK 1 269+00 TRK 1 270+00 TRK 1 271+00 TRK 1 272+00 TRK 1 273+00 TRK 1 274+00 TRK 1 275+00 TRK 1 276+00 TRK 1 277+00 TRK 1 278+00

10+96 10+00 9+00 8+00 7+00 6+00 5+00 4+00 3+00 2+00 1+00 0+00

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-002A	TBD	TBD	6" GAS	TBD	TBD
2-004	TBD	TBD	6" WATER	TBD	TBD
2-006	TBD	TBD	6" WATER	TBD	TBD
2-009	TBD	TBD	8" WATER	TBD	TBD

40' 0 40' 80'

SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION MTA Maryland

Gannett Fleming WR&A

JACOBS STV

STV Incorporated

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DESIGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS STA TRK 1 267+00 TO STA TRK 1 279+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-015

SHEET NO. 22 OF 259

c:\pwworking\mtapw\jb-brenda.duong\dms98652\1042pUT2U01.dgn
12/18/2013

GRACE CHURCH RD

LYTTONSVILLE RD

PROPOSED UTILITY POLE

PROPOSED ELECTRIC DUCTBANK

PROPOSED ACCESS TO PROPOSED CAPITAL CRESCENT TRAIL

PROPOSED SIDEWALK

4TH AVE

BEGIN PROPOSED RETAINING WALL

PROPOSED CAPITAL CRESCENT TRAIL

PROPOSED RETAINING WALL

PROPOSED UGD

PROPOSED UGD

END PROPOSED RETAINING WALL

PROPOSED RETAINING WALL

MATCH LINE STA TRK 1 279+00

MATCH LINE STA TRK 1 291+00

CSX TRACK ℄

PROPOSED FIBER OPTIC

℄ TRACK 2

PROPOSED RETAINING WALL

℄ TRACK 1

PROPOSED OCS POLE (TYP)

PROPOSED RETAINING WALL

PROPOSED RETAINING WALL

LEONARD DR

ROSEMARY HILLS DR

N

40′ 0 40′ 80′

SCALE: 1"=40′

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

JACOBS — STV — STV Incorporated

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS STA TRK 1 279+00 TO STA TRK 1 291+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. UT–016

SHEET NO. 23 OF 259

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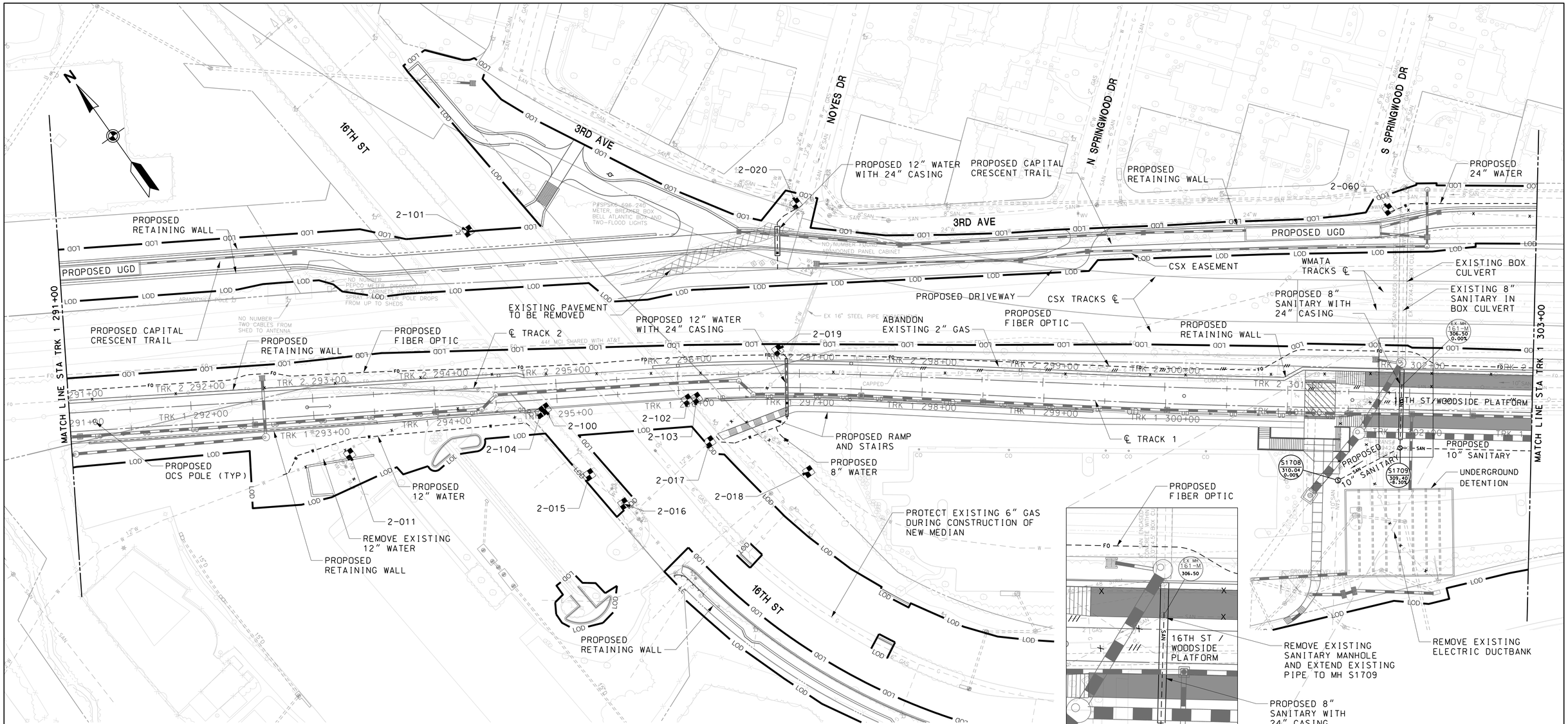
12/18/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-011	TBD	TBD	12" WATER	TBD	TBD
2-015	485335.48	1300959.27	13" CAST IRON WATER LINE	340.83	333.19
2-016	485299.75	1300968.28	13" CAST IRON WATER LINE	343.67	338.03
2-017	485300.50	1301055.38	13" CAST IRON WATER LINE	343.73	339.08
2-018	485233.57	1301107.54	9" CAST IRON WATER LINE	333.77	327.67
2-019	TBD	TBD	12" WATER	TBD	TBD
2-020	TBD	TBD	12" WATER	TBD	TBD
2-060	TBD	TBD	24" WATER	TBD	TBD
2-100	485400.68	1300960.90	CONCRETE FOOTER	336.76	330.61
2-101	TBD	TBD	CONCRETE FOOTER	TBD	TBD
2-102	485339.27	1301060.08	CONCRETE FOOTER	336.87	326.83
2-103	485335.97	1301067.13	CONCRETE FOOTER	335.95	327.01
2-104	485400.38	1300956.30	CONCRETE FOOTER	335.90	330.67

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 291+00 TO STA TRK 1 303+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-017
SHEET NO. 24 OF 259

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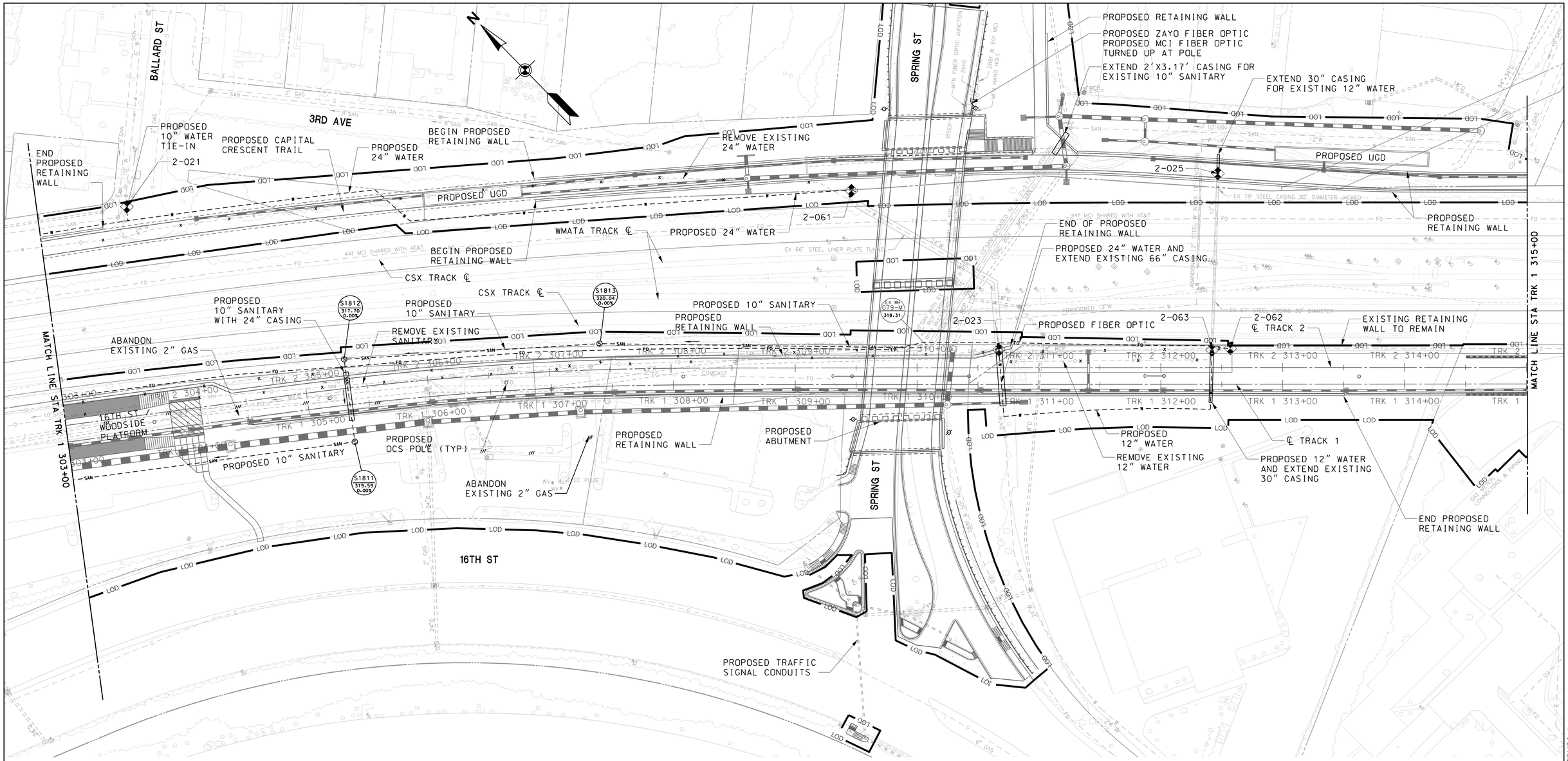
12/18/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-021	TBD	TBD	10" WATER	TBD	TBD
2-023	TBD	TBD	END OF CASING FOR 24" WATER	TBD	TBD
2-025	TBD	TBD	12" WATER	TBD	TBD
2-061	TBD	TBD	24" WATER	TBD	TBD
2-062	TBD	TBD	FIBER OPTIC	TBD	TBD
2-063	TBD	TBD	12" WATER	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION
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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 303+00 TO STA TRK 1 315+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-018
SHEET NO. 25 OF 259

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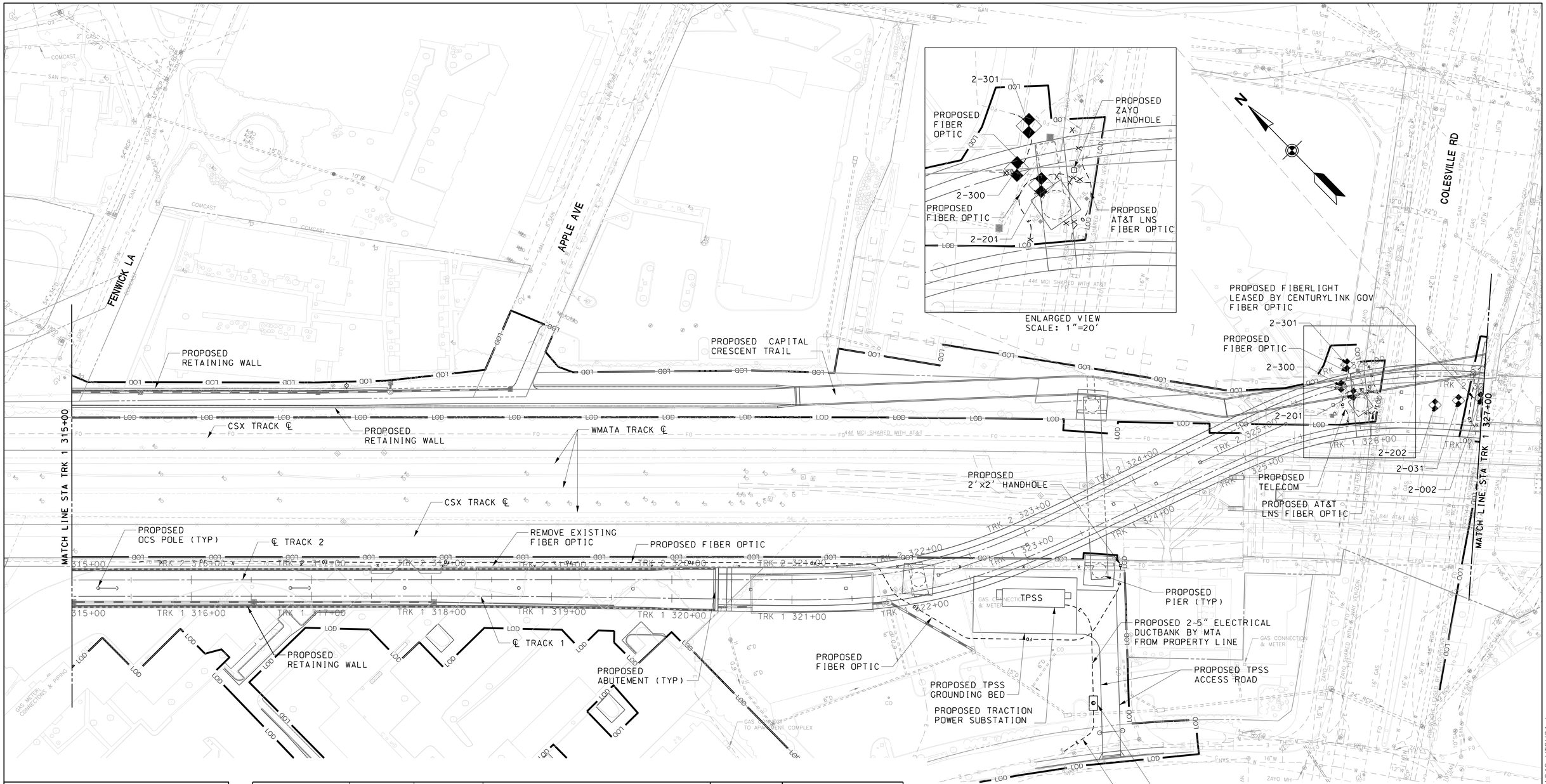
12/18/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-031	483436.36	1303447.80	UNKNOWN WIDTH, 1.8'H RPC ELECTRIC DUCT	303.26	299.41
2-201	TBD	TBD	TELECOM	TBD	TBD
2-202	TBD	TBD	FIBER OPTIC	TBD	TBD
2-002	483424.99	1303462.46	(5) 1¾" PLASTIC FIBER OPTIC DUCTS	300.25	297.22
2-300	TBD	TBD	TELECOM	TBD	TBD
2-301	TBD	TBD	TELECOM	TBD	TBD

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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STV Incorporated

PROFESSIONAL CERTIFICATION

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 315+00 TO STA TRK 1 327+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-019
SHEET NO. 26 OF 259

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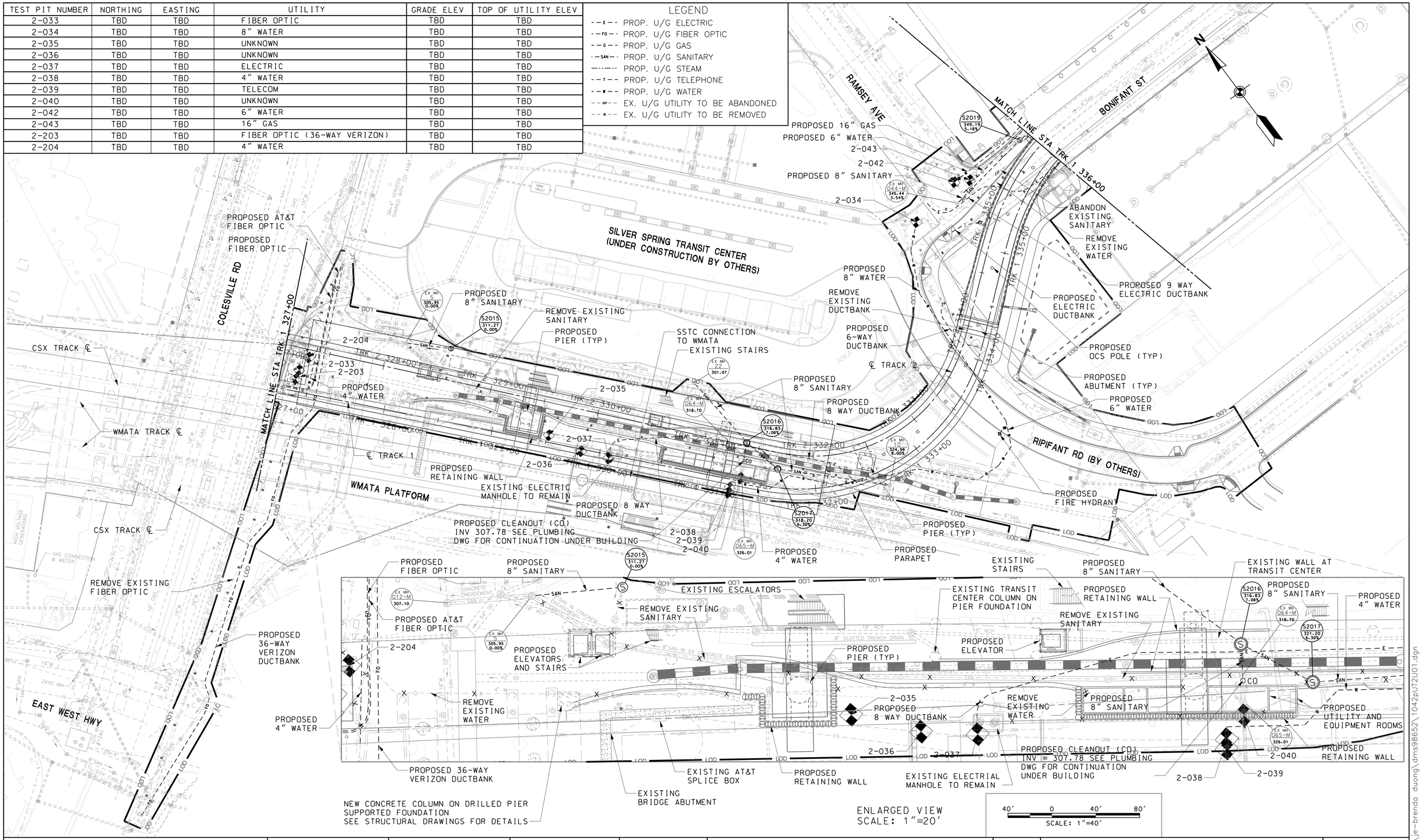
12/18/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-033	TBD	TBD	FIBER OPTIC	TBD	TBD
2-034	TBD	TBD	8" WATER	TBD	TBD
2-035	TBD	TBD	UNKNOWN	TBD	TBD
2-036	TBD	TBD	UNKNOWN	TBD	TBD
2-037	TBD	TBD	ELECTRIC	TBD	TBD
2-038	TBD	TBD	4" WATER	TBD	TBD
2-039	TBD	TBD	TELECOM	TBD	TBD
2-040	TBD	TBD	UNKNOWN	TBD	TBD
2-042	TBD	TBD	6" WATER	TBD	TBD
2-043	TBD	TBD	16" GAS	TBD	TBD
2-203	TBD	TBD	FIBER OPTIC (36-WAY VERIZON)	TBD	TBD
2-204	TBD	TBD	4" WATER	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED



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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

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DESIGN
DRAWN
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 327+00 TO STA TRK 1 336+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-020
SHEET NO. 27 OF 259

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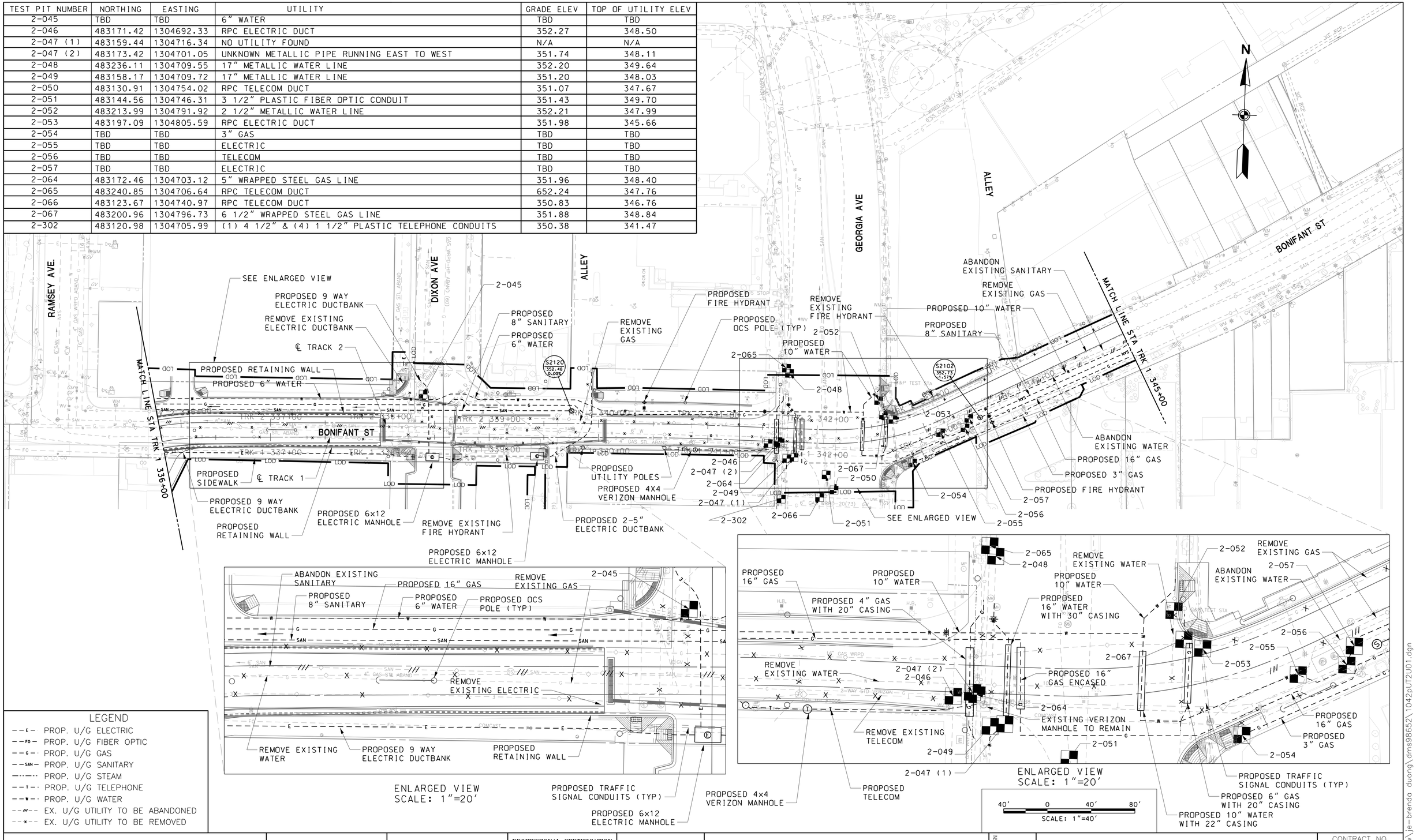
12/18/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
2-045	TBD	TBD	6" WATER	TBD	TBD
2-046	483171.42	1304692.33	RPC ELECTRIC DUCT	352.27	348.50
2-047 (1)	483159.44	1304716.34	NO UTILITY FOUND	N/A	N/A
2-047 (2)	483173.42	1304701.05	UNKNOWN METALLIC PIPE RUNNING EAST TO WEST	351.74	348.11
2-048	483236.11	1304709.55	17" METALLIC WATER LINE	352.20	349.64
2-049	483158.17	1304709.72	17" METALLIC WATER LINE	351.20	348.03
2-050	483130.91	1304754.02	RPC TELECOM DUCT	351.07	347.67
2-051	483144.56	1304746.31	3 1/2" PLASTIC FIBER OPTIC CONDUIT	351.43	349.70
2-052	483213.99	1304791.92	2 1/2" METALLIC WATER LINE	352.21	347.99
2-053	483197.09	1304805.59	RPC ELECTRIC DUCT	351.98	345.66
2-054	TBD	TBD	3" GAS	TBD	TBD
2-055	TBD	TBD	ELECTRIC	TBD	TBD
2-056	TBD	TBD	TELECOM	TBD	TBD
2-057	TBD	TBD	ELECTRIC	TBD	TBD
2-064	483172.46	1304703.12	5" WRAPPED STEEL GAS LINE	351.96	348.40
2-065	483240.85	1304706.64	RPC TELECOM DUCT	652.24	347.76
2-066	483123.67	1304740.97	RPC TELECOM DUCT	350.83	346.76
2-067	483200.96	1304796.73	6 1/2" WRAPPED STEEL GAS LINE	351.88	348.84
2-302	483120.98	1304705.99	(1) 4 1/2" & (4) 1 1/2" PLASTIC TELEPHONE CONDUITS	350.38	341.47



ENLARGED VIEW
SCALE: 1"=20'

ENLARGED VIEW
SCALE: 1"=20'

40' 0 40' 80'
SCALE: 1"=40'

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

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DESGN
DRAWN
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APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 336+00 TO STA TRK 1 345+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-021
SHEET NO. 28 OF 259

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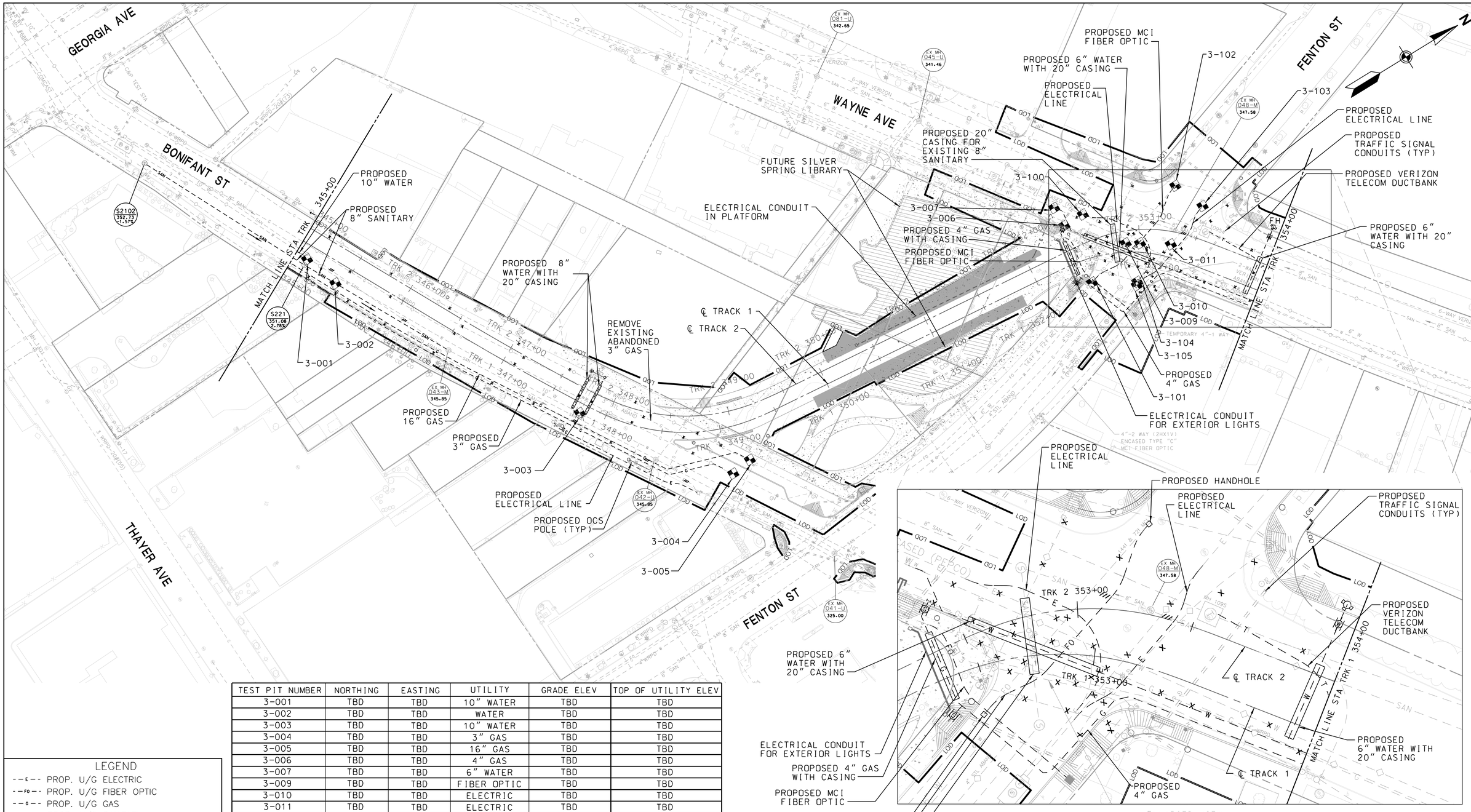
12/18/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-001	TBD	TBD	10" WATER	TBD	TBD
3-002	TBD	TBD	WATER	TBD	TBD
3-003	TBD	TBD	10" WATER	TBD	TBD
3-004	TBD	TBD	3" GAS	TBD	TBD
3-005	TBD	TBD	16" GAS	TBD	TBD
3-006	TBD	TBD	4" GAS	TBD	TBD
3-007	TBD	TBD	6" WATER	TBD	TBD
3-009	TBD	TBD	FIBER OPTIC	TBD	TBD
3-010	TBD	TBD	ELECTRIC	TBD	TBD
3-011	TBD	TBD	ELECTRIC	TBD	TBD
3-100	TBD	TBD	ELECTRIC	TBD	TBD
3-101	TBD	TBD	FIBER OPTIC	TBD	TBD
3-102	TBD	TBD	FIBER OPTIC	TBD	TBD
3-103	TBD	TBD	ELECTRIC	TBD	TBD
3-104	TBD	TBD	ELECTRIC	TBD	TBD
3-105	TBD	TBD	ELECTRIC	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

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DESGN
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 345+00 TO STA TRK 1 354+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-022
SHEET NO. 29 OF 259

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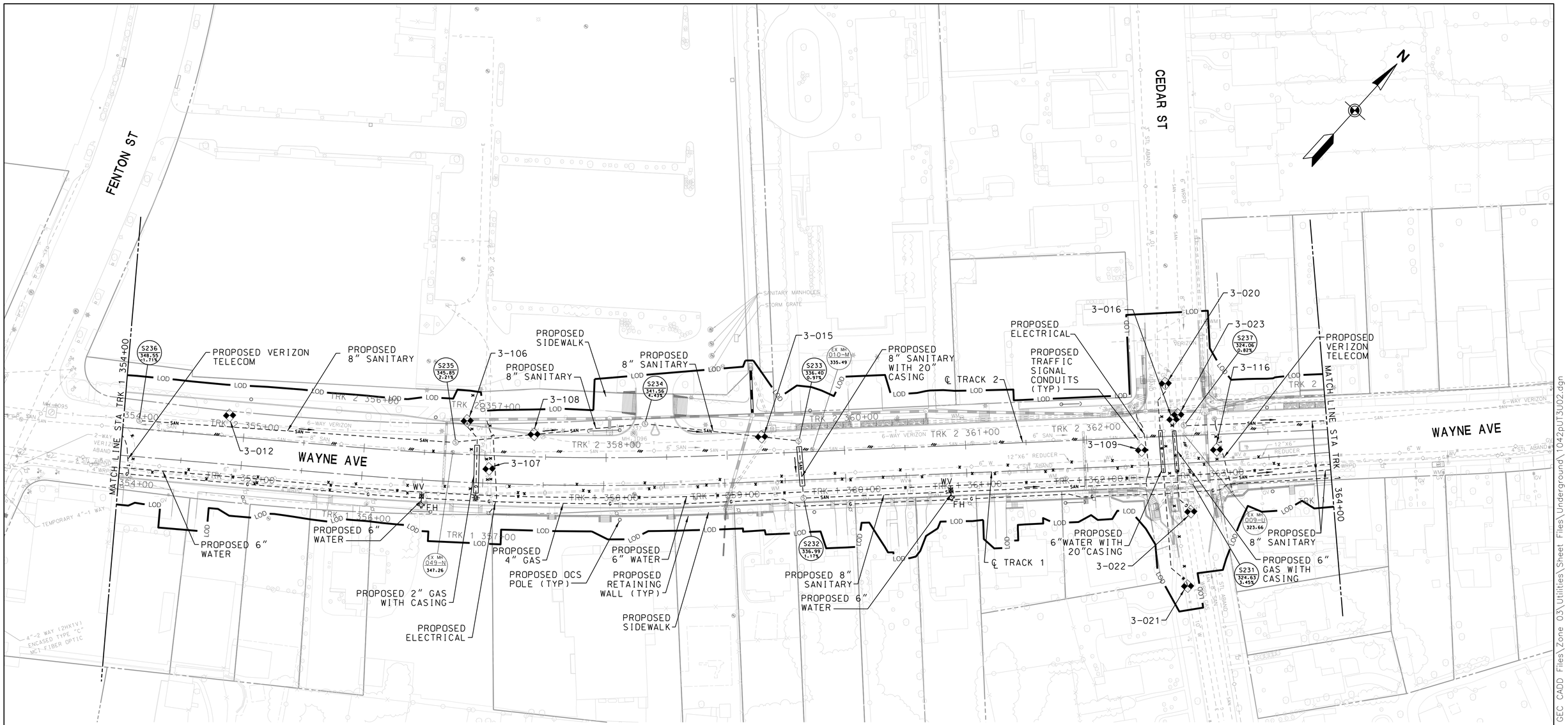
12/11/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-012	TBD	TBD	TELECOMM	TBD	TBD
3-015	TBD	TBD	TELECOMM	TBD	TBD
3-016	TBD	TBD	TELECOMM	TBD	TBD
3-020	TBD	TBD	6" WATER	TBD	TBD
3-021	TBD	TBD	6" WATER	TBD	TBD
3-022	TBD	TBD	6" GAS	TBD	TBD
3-023	TBD	TBD	6" GAS	TBD	TBD
3-106	TBD	TBD	2" GAS	TBD	TBD
3-107	TBD	TBD	ELECTRICAL	TBD	TBD
3-108	TBD	TBD	TELECOM	TBD	TBD
3-109	TBD	TBD	ELECTRICAL	TBD	TBD
3-116	TBD	TBD	TELECOM	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 354+00 TO STA TRK 1 364+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-023
SHEET NO. 30 OF 259

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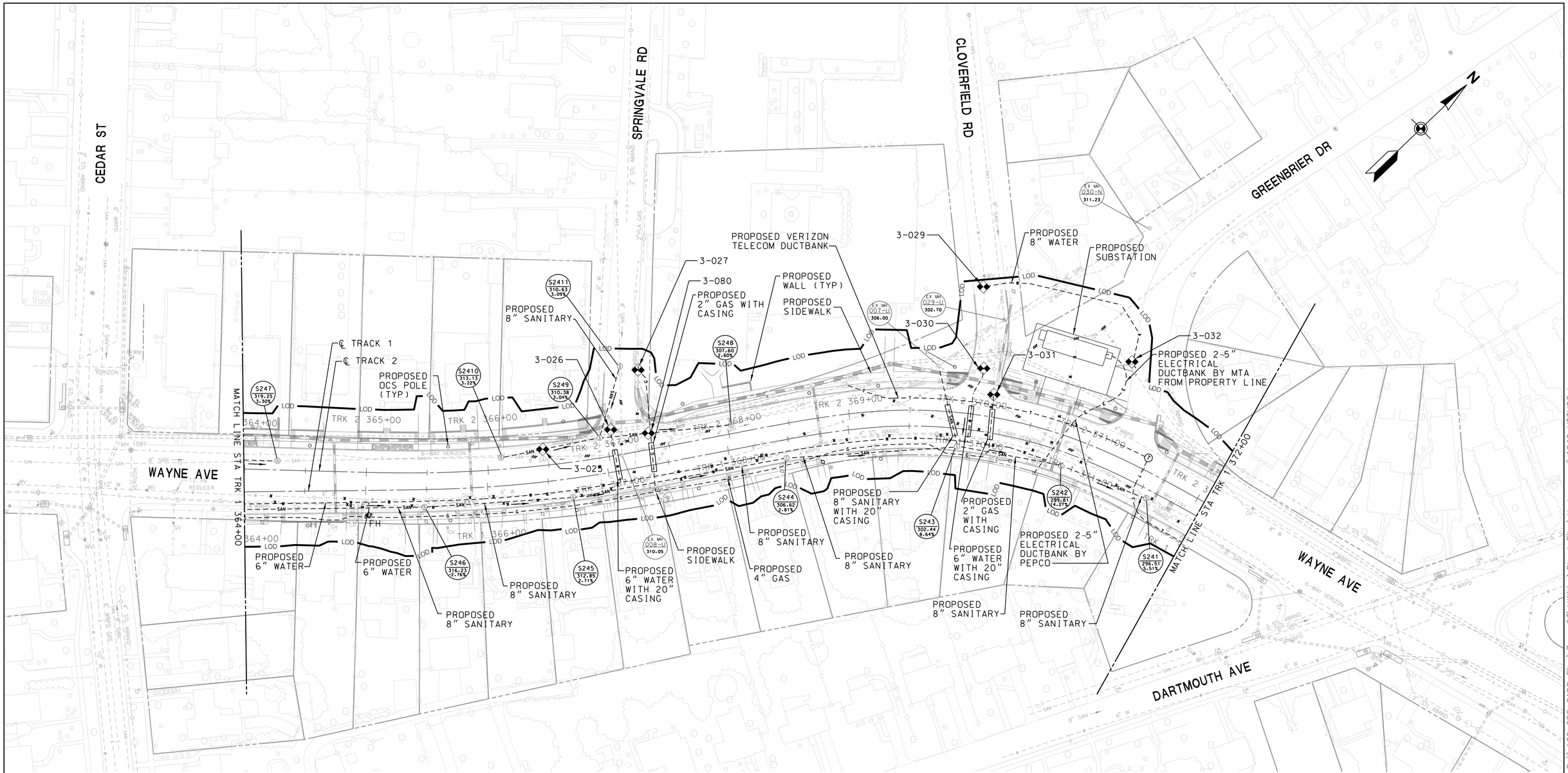

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-025	TBD	TBD	TELECOMM	TBD	TBD
3-026	TBD	TBD	6" WATER	TBD	TBD
3-027	TBD	TBD	2" GAS	TBD	TBD
3-029	TBD	TBD	6" WATER	TBD	TBD
3-030	TBD	TBD	6" WATER	TBD	TBD
3-031	TBD	TBD	4" GAS	TBD	TBD
3-032	TBD	TBD	8" WATER	TBD	TBD
3-080	TBD	TBD	TELECOM	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 364+00 TO STA TRK 1 372+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-024
SHEET NO. 31 OF 259

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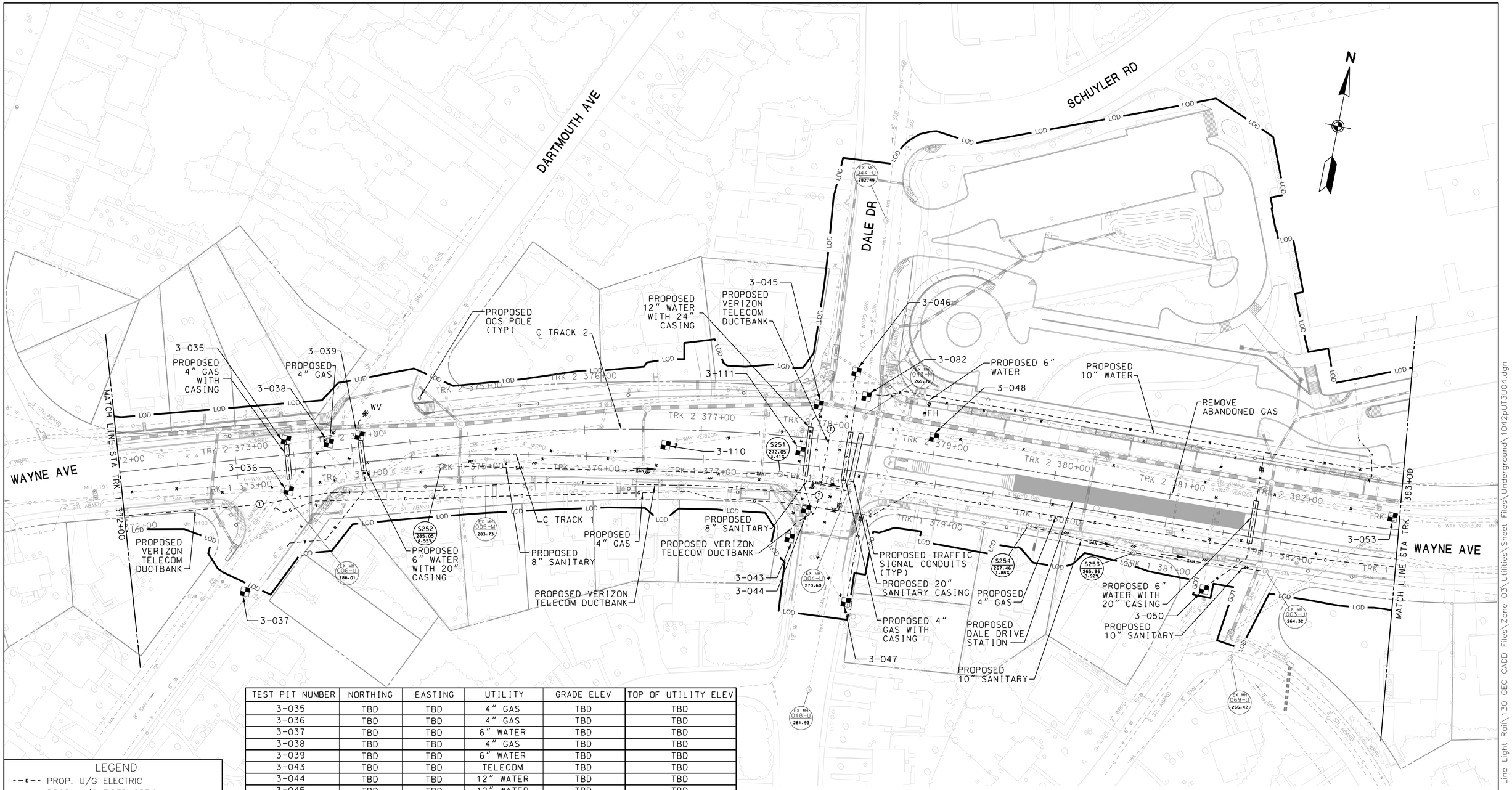
12/11/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-035	TBD	TBD	4" GAS	TBD	TBD
3-036	TBD	TBD	4" GAS	TBD	TBD
3-037	TBD	TBD	6" WATER	TBD	TBD
3-038	TBD	TBD	4" GAS	TBD	TBD
3-039	TBD	TBD	6" WATER	TBD	TBD
3-043	TBD	TBD	TELECOM	TBD	TBD
3-044	TBD	TBD	12" WATER	TBD	TBD
3-045	TBD	TBD	12" WATER	TBD	TBD
3-046	TBD	TBD	4" GAS	TBD	TBD
3-047	TBD	TBD	4" GAS	TBD	TBD
3-048	TBD	TBD	TELECOM	TBD	TBD
3-050	TBD	TBD	6" WATER	TBD	TBD
3-053	TBD	TBD	TELECOM	TBD	TBD
3-082	TBD	TBD	10" WATER	TBD	TBD
3-110	TBD	TBD	TELECOM	TBD	TBD
3-111	TBD	TBD	TELECOM	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

40' 0 40' 80'
SCALE: 1"=40'

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 372+00 TO STA TRK 1 383+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-025
SHEET NO. 32 OF 259

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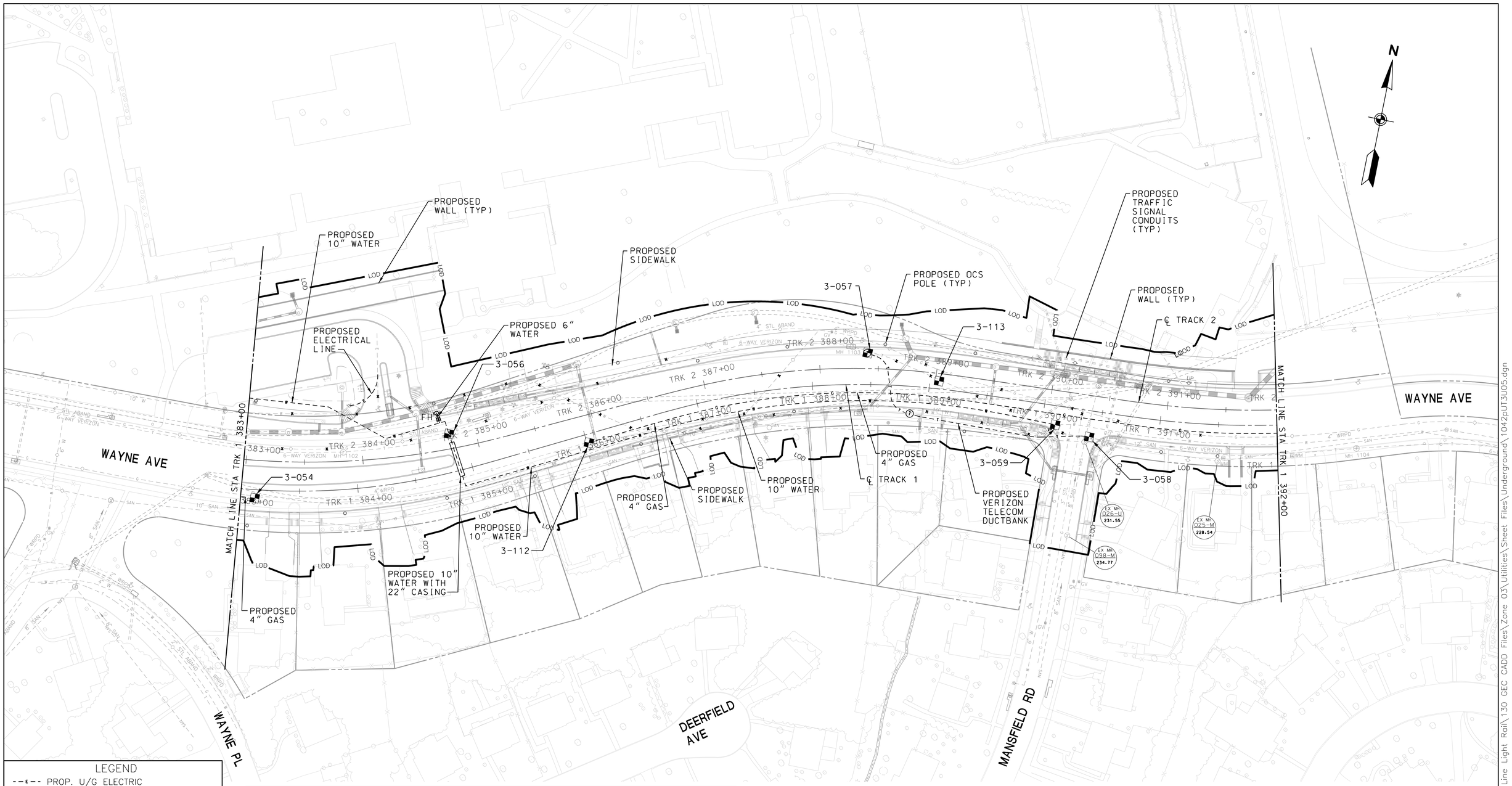

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-054	TBD	TBD	4" GAS	TBD	TBD
3-056	TBD	TBD	TELECOM	TBD	TBD
3-057	TBD	TBD	TELECOM	TBD	TBD
3-058	TBD	TBD	TELECOM	TBD	TBD
3-059	TBD	TBD	10" WATER	TBD	TBD
3-112	TBD	TBD	4" GAS	TBD	TBD
3-113	TBD	TBD	TELECOM	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 383+00 TO STA TRK 1 392+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-026
SHEET NO. 33 OF 259

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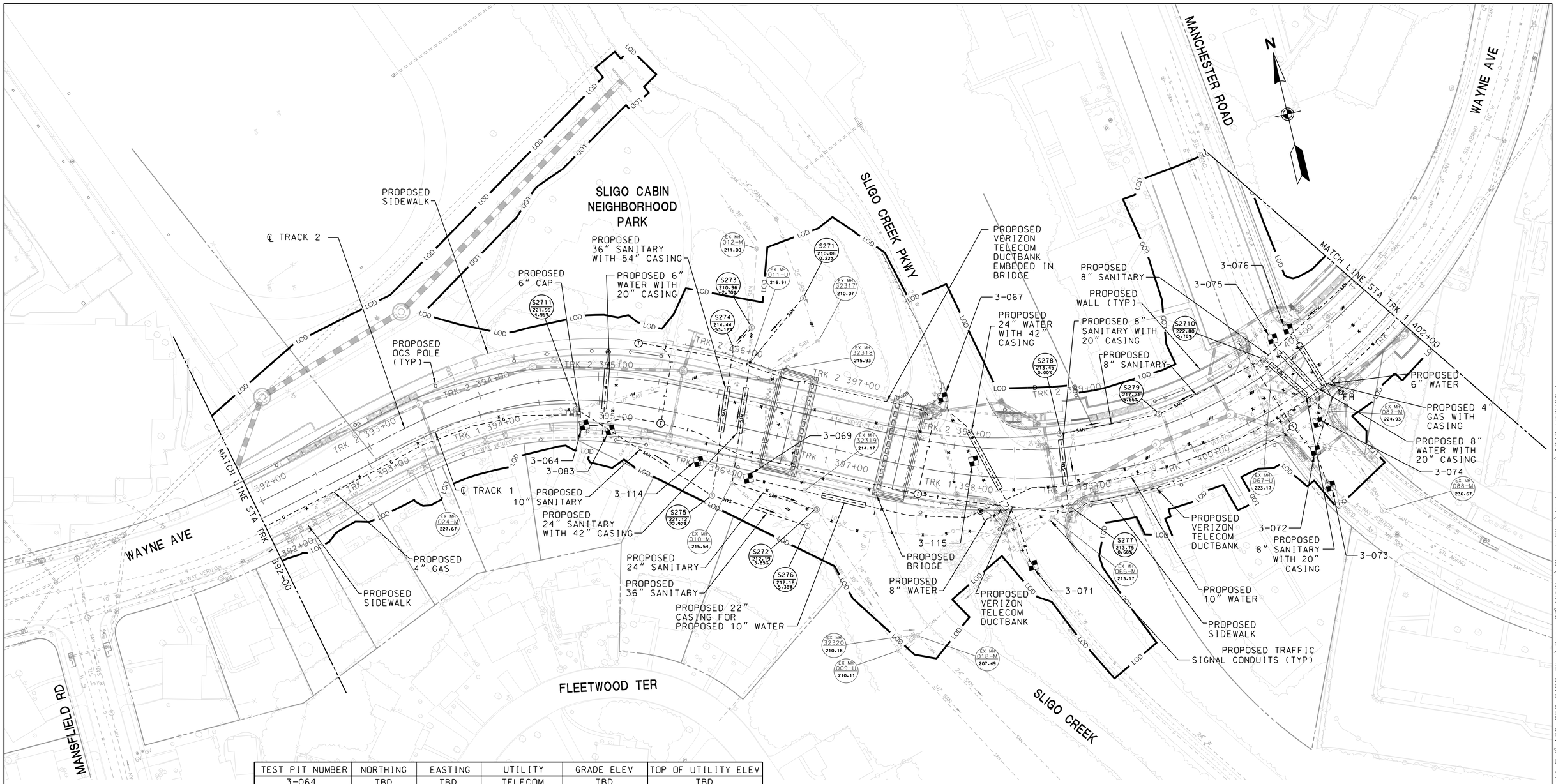

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-064	TBD	TBD	TELECOM	TBD	TBD
3-067	TBD	TBD	24" WATER	TBD	TBD
3-069	TBD	TBD	10" WATER	TBD	TBD
3-071	TBD	TBD	24" WATER	TBD	TBD
3-072	TBD	TBD	3" GAS	TBD	TBD
3-073	TBD	TBD	TELECOM	TBD	TBD
3-074	TBD	TBD	8" WATER	TBD	TBD
3-075	TBD	TBD	8" WATER	TBD	TBD
3-076	TBD	TBD	4" GAS	TBD	TBD
3-083	TBD	TBD	10" WATER	TBD	TBD
3-114	TBD	TBD	10" WATER	TBD	TBD
3-115	TBD	TBD	24" WATER	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 392+00 TO STA TRK 1 402+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-027
SHEET NO. 34 OF 259

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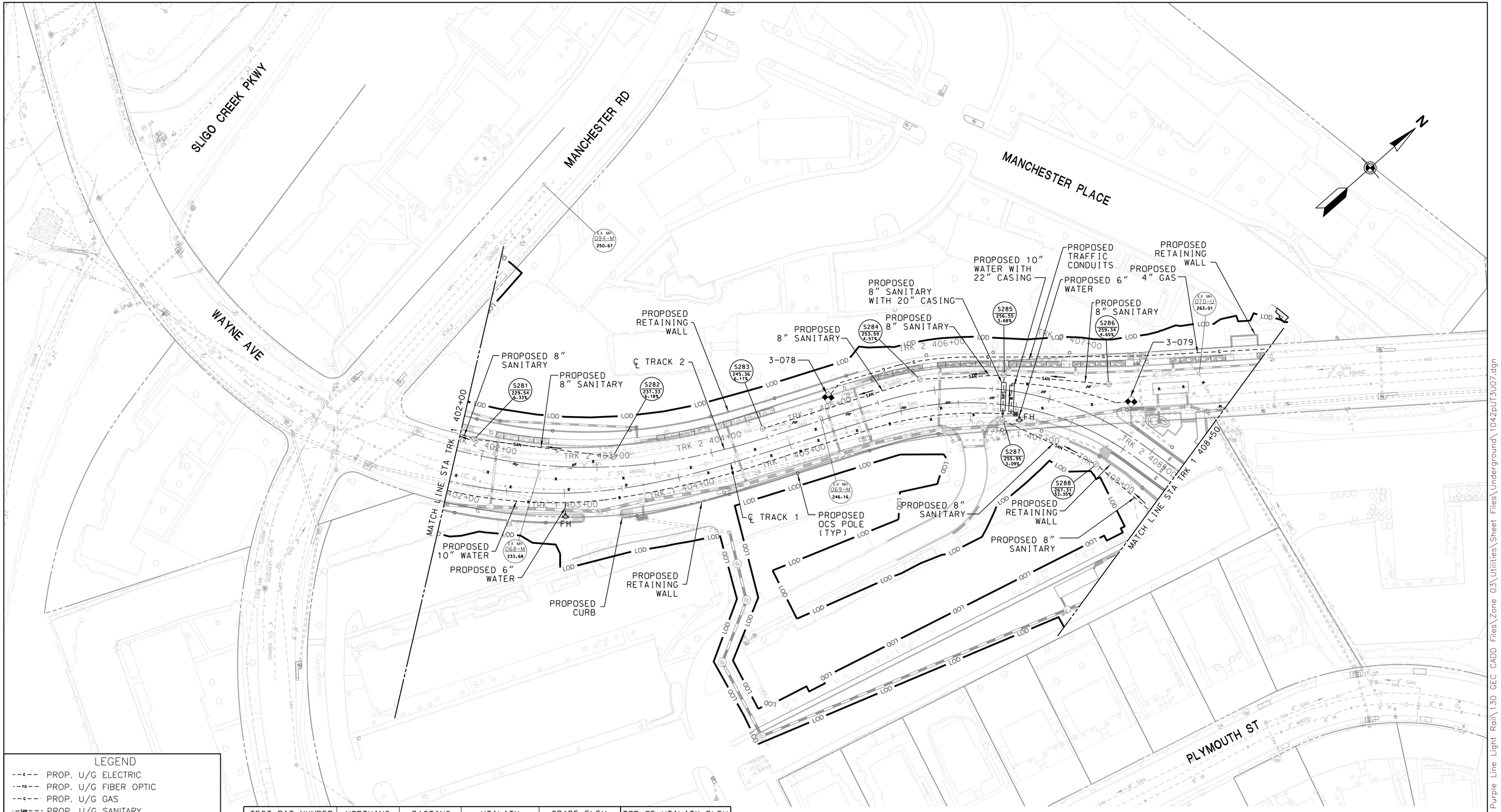

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
3-078	TBD	TBD	4" GAS	TBD	TBD
3-079	TBD	TBD	10" WATER	TBD	TBD

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming WR&A

JACOBS

PROFESSIONAL CERTIFICATION

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License No. Expiration Date

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DESIGN
DRAWN
CHECK
APPR

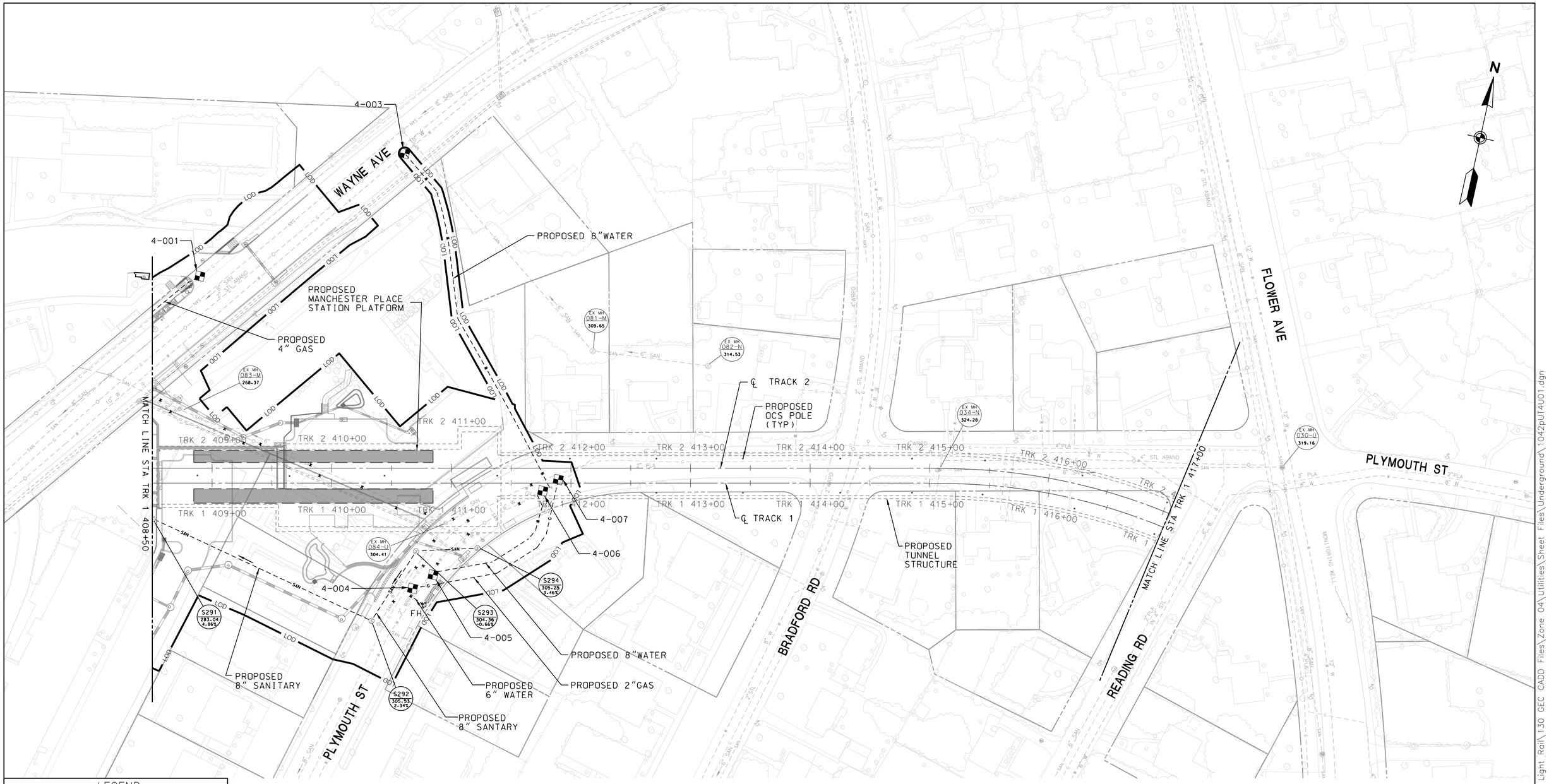
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 402+00 TO STA TRK 1 408+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-028
SHEET NO. 35 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Underground\1042pUT3U07.dgn
12/11/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
4-001	TBD	TBD	4" GAS	TBD	TBD
4-003	TBD	TBD	10" WATER	TBD	TBD
4-004	TBD	TBD	2" GAS	TBD	TBD
4-005	TBD	TBD	8" WATER	TBD	TBD
4-006	TBD	TBD	6" WATER	TBD	TBD
4-007	TBD	TBD	2" GAS	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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MTA Maryland

Gannett Fleming
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DRAWN
CHECK
APPR

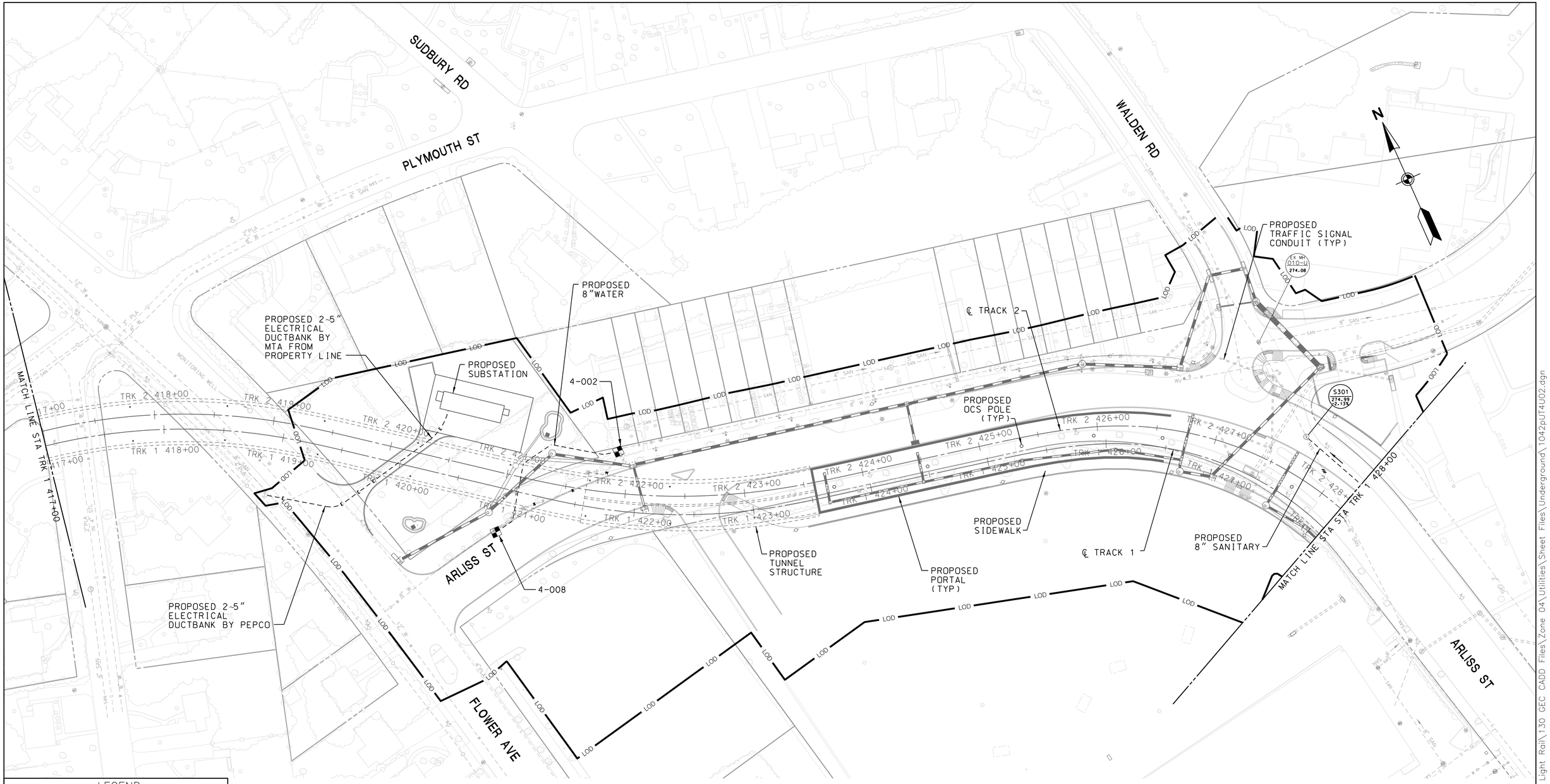
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 408+50 TO STA TRK 1 417+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-029
SHEET NO. 36 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 04\Utilities\Sheet Files\Underground\1042PUT4U01.dgn
12/11/2013



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
4-002	TBD	TBD	8" WATER	TBD	TBD
4-008	TBD	TBD	8" WATER	TBD	TBD

40' 0 40' 80'
SCALE: 1"=40'

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CHECK
APPR

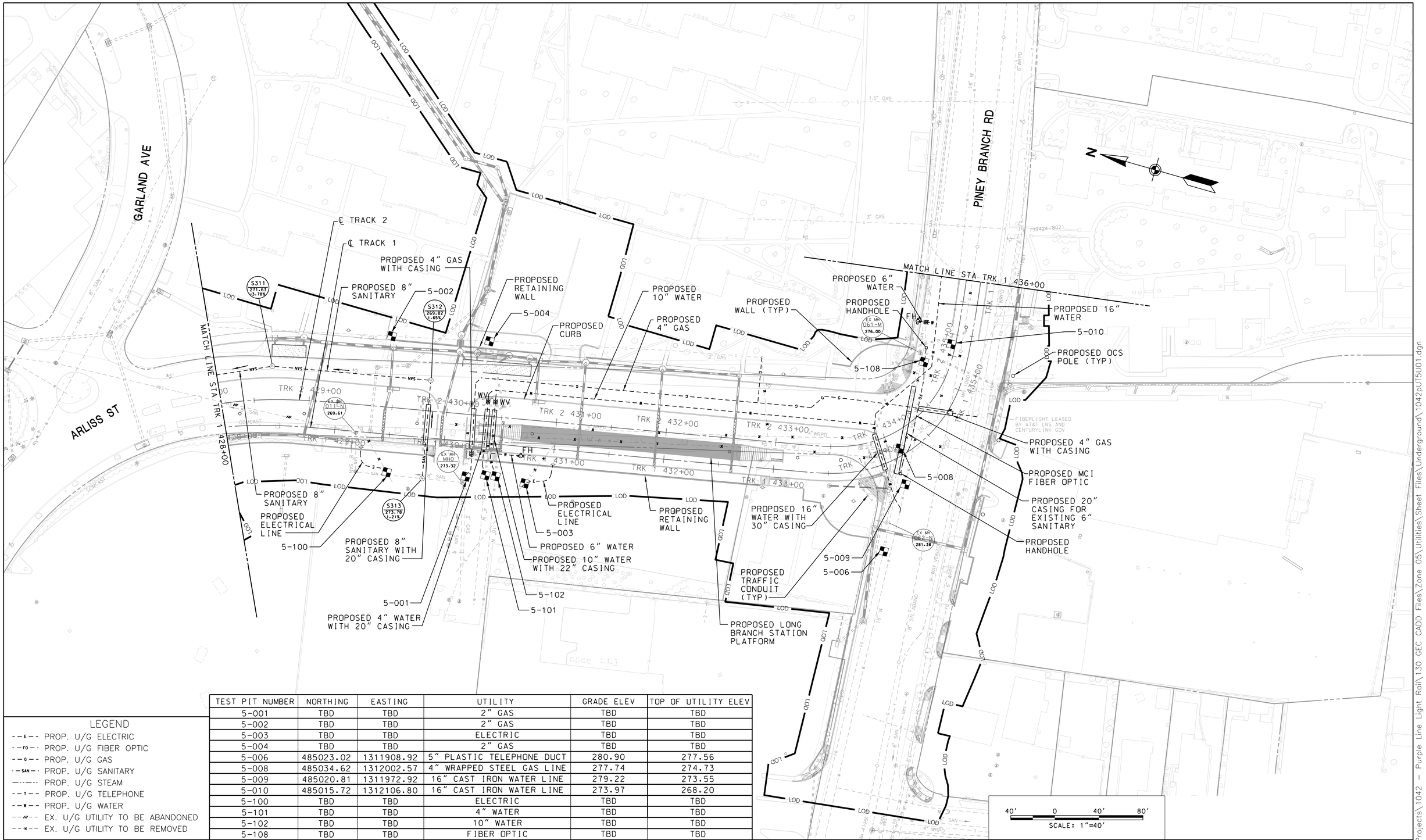
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 417+00 TO STA TRK 1 428+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-030
SHEET NO. 37 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 04\Utilities\Sheet Files\Underground\1042pUT4U02.dgn
12/11/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
5-001	TBD	TBD	2" GAS	TBD	TBD
5-002	TBD	TBD	2" GAS	TBD	TBD
5-003	TBD	TBD	ELECTRIC	TBD	TBD
5-004	TBD	TBD	2" GAS	TBD	TBD
5-006	485023.02	1311908.92	5" PLASTIC TELEPHONE DUCT	280.90	277.56
5-008	485034.62	1312002.57	4" WRAPPED STEEL GAS LINE	277.74	274.73
5-009	485020.81	1311972.92	16" CAST IRON WATER LINE	279.22	273.55
5-010	485015.72	1312106.80	16" CAST IRON WATER LINE	273.97	268.20
5-100	TBD	TBD	ELECTRIC	TBD	TBD
5-101	TBD	TBD	4" WATER	TBD	TBD
5-102	TBD	TBD	10" WATER	TBD	TBD
5-108	TBD	TBD	FIBER OPTIC	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A — JACOBS

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DESIGN | DRAWN | CHECK | APPR

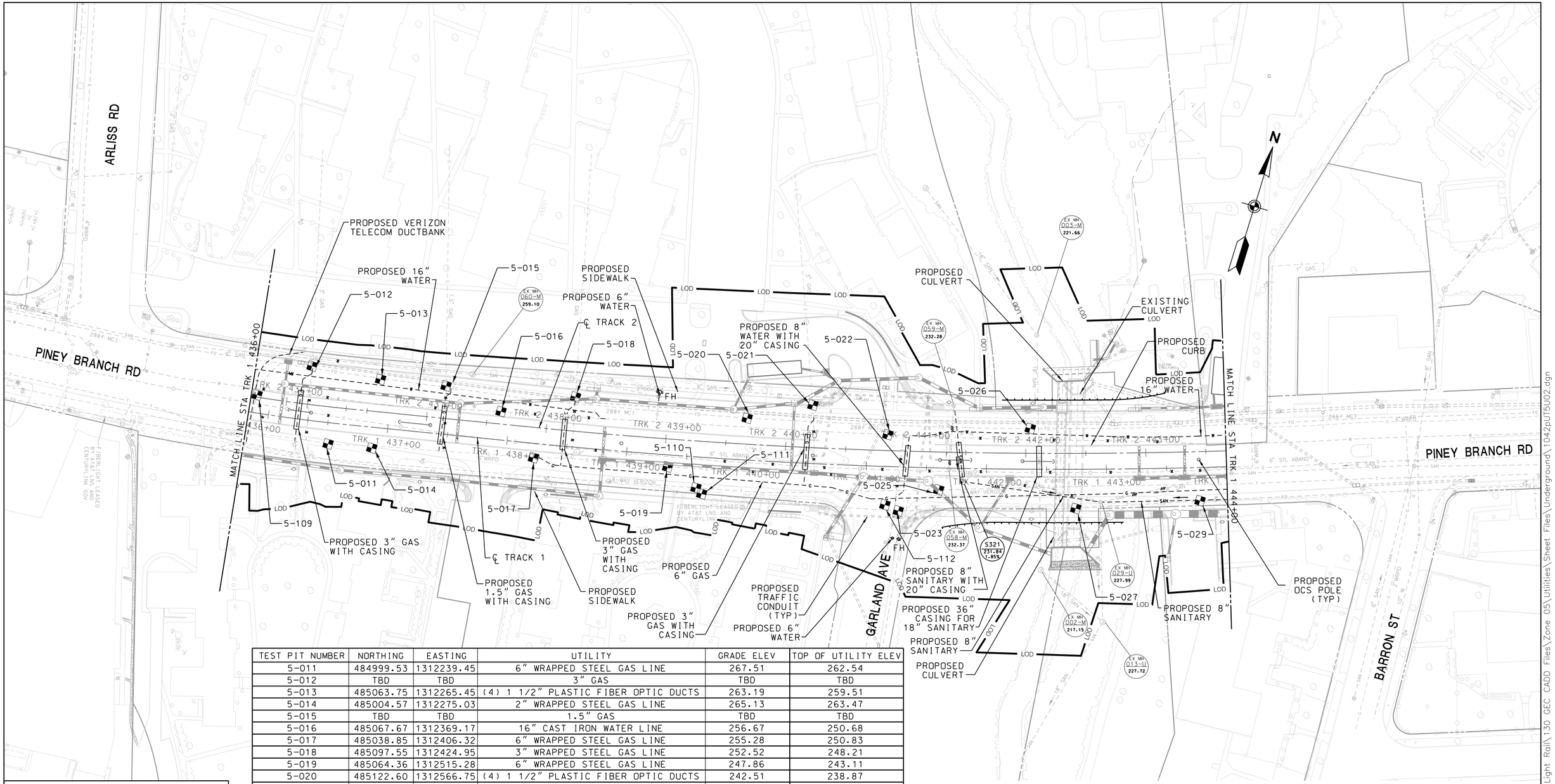
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 428+00 TO STA TRK 1 436+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-031
SHEET NO. 38 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Underground\1042pUT5U01.dgn
12/11/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
5-011	484999.53	1312239.45	6" WRAPPED STEEL GAS LINE	267.51	262.54
5-012	TBD	TBD	3" GAS	TBD	TBD
5-013	485063.75	1312265.45	(4) 1 1/2" PLASTIC FIBER OPTIC DUCTS	263.19	259.51
5-014	485004.57	1312275.03	2" WRAPPED STEEL GAS LINE	265.13	263.47
5-015	TBD	TBD	1.5" GAS	TBD	TBD
5-016	485067.67	1312369.17	16" CAST IRON WATER LINE	256.67	250.68
5-017	485038.85	1312406.32	6" WRAPPED STEEL GAS LINE	255.28	250.83
5-018	485097.55	1312424.95	3" WRAPPED STEEL GAS LINE	252.52	248.21
5-019	485064.36	1312515.28	6" WRAPPED STEEL GAS LINE	247.86	243.11
5-020	485122.60	1312566.75	(4) 1 1/2" PLASTIC FIBER OPTIC DUCTS	242.51	238.87
5-021	485149.12	1312615.87	3" WRAPPED STEEL GAS LINE	239.82	236.35
5-022	485143.98	1312682.78	16" CAST IRON WATER LINE	234.68	230.14
5-023	TBD	TBD	8" WATER	TBD	TBD
5-025	485112.47	1312736.73	RPC TELEPHONE DUCT	233.06	228.32
5-026	485183.77	1312794.68	(4) 1 1/2" PLASTIC FIBER OPTIC DUCTS	227.76	224.31
5-027	485131.23	1312850.41	(4) 1 1/4" PLASTIC FIBER OPTIC DUCTS	228.35	223.82
5-029	485167.77	1312947.48	(5) 2 1/2" PLASTIC FIBER OPTIC DUCTS	226.40	219.18
5-109	485021.12	1312170.88	(2) 4 1/2" STEEL TELEPHONE CONDUITS	270.43	265.27
5-110	TBD	TBD	TELECOM	TBD	TBD
5-111	TBD	TBD	FIBER OPTIC	TBD	TBD
5-112	TBD	TBD	FIBER OPTIC	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming WR&A

JACOBS

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS STA TRK 1 436+00 TO STA TRK 1 444+00

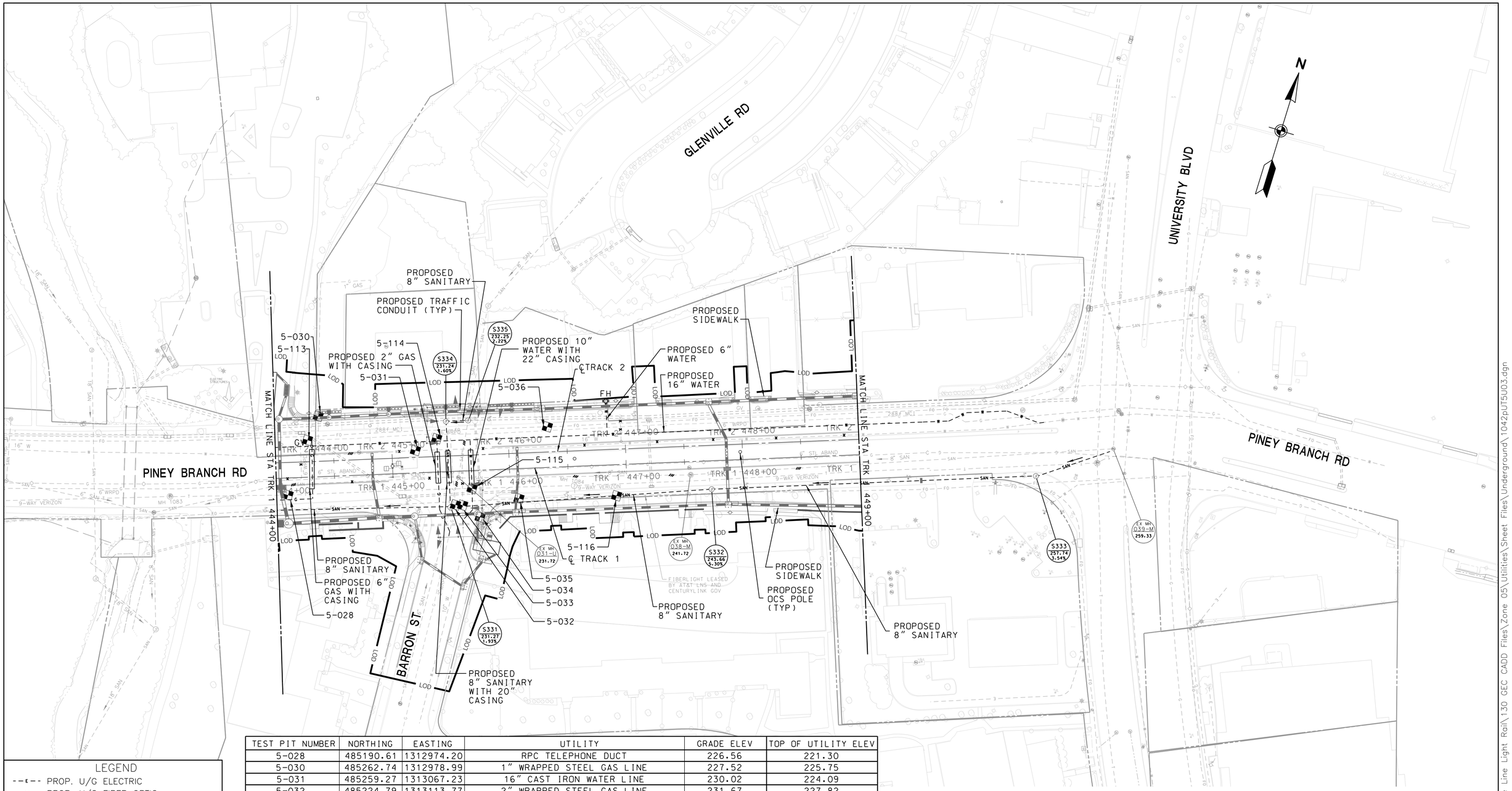
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-032

SHEET NO. 39 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Underground\1042pUT5U02.dgn
12/11/2013



TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
5-028	485190.61	1312974.20	RPC TELEPHONE DUCT	226.56	221.30
5-030	485262.74	1312978.99	1" WRAPPED STEEL GAS LINE	227.52	225.75
5-031	485259.27	1313067.23	16" CAST IRON WATER LINE	230.02	224.09
5-032	485224.79	1313113.77	2" WRAPPED STEEL GAS LINE	231.67	227.82
5-033	485226.24	1313119.67	10" CAST IRON WATER LINE	231.97	226.97
5-034	485220.93	1313136.97	TERRA COTTA TELEPHONE DUCT	233.44	230.53
5-035	485245.99	1313164.08	(5) 1 1/4" PLASTIC FIBER OPTIC DUCTS	234.62	227.95
5-036	485311.78	1313169.28	(4) 1 1/2" PLASTIC FIBER OPTIC DUCTS	235.48	231.27
5-113	485240.44	1312976.25	6" WRAPPED STEEL GAS LINE	226.41	222.86
5-114	TBD	TBD	6" GAS	TBD	TBD
5-115	TBD	TBD	TELECOM	TBD	TBD
5-116	TBD	TBD	FIBER OPTIC	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 444+00 TO STA TRK 1 449+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-033
SHEET NO. 40 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Underground\1042pUT5U03.dgn
12/11/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
5-038	TBD	TBD	FIBER OPTIC	TBD	TBD
5-039	485405.60	1313477.19	17" DIP WATER	252.78	246.69
5-040	485429.30	1313532.11	6-1/2" WRP STEEL GAS	255.63	251.36
5-041	485374.61	1313494.40	CONC TELE DUCT	252.63	248.44
5-043-1	485515.16	1313601.32	NO UTILITY FOUND	N/A	N/A
5-043-2	485515.36	1313604.73	CONC TELE DUCT	260.03	257.10
6-001	485512.22	1313675.00	13" WRP STEEL GAS	259.32	255.03
6-003	485380.15	1313667.43	13" CIP WATER	258.16	253.44
6-005	485389.58	1313624.72	(3) 1-1/4" PLA FIBER OPTIC	257.66	249.78
6-006	485388.21	1313711.11	17" WRP STEEL GAS	257.23	254.54
6-007	485450.58	1313755.49	6" WRP STEEL GAS	256.14	253.19
6-153	484820.93	1313988.01	ELECTRIC	248.12	243.90
6-153	484820.93	1313988.01	13" WATER	248.12	244.59
6-154	TBD	TBD	WATER	TBD	TBD
6-165	485487.38	1313692.59	(4) 1-1/2" PLA FIBER OPTIC	258.65	254.56
6-202	TBD	TBD	WATER	TBD	TBD
6-203	TBD	TBD	WATER	TBD	TBD
6-204	TBD	TBD	WATER	TBD	TBD

LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

NOTES:

1. 5'6" MIN CLEARANCE FROM BASE OF RAIL TO TOP OF CASING AT ITS CLOSEST POINT.

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS

STA TRK 1 449+00 TO STA TRK 1 461+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-034

SHEET NO. 41 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Underground Plans\1042pUT6U01.dgn 12/11/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
6-011	TBD	TBD	GAS	TBD	TBD
6-012	TBD	TBD	GAS	TBD	TBD
6-014	483830.14	1314362.69	11" CIP WATER	236.00	231.16
6-017	TBD	TBD	GAS	TBD	TBD
6-018	483696.99	1314324.52	5" WRP STEEL GAS	232.48	228.18
6-019	483695.33	1314313.92	(6) 1-1/2" FIBER OPTIC ID	232.18	229.57
6-020	TBD	TBD	GAS	TBD	TBD
6-024	483533.91	1314398.01	12-3/4" DIP WATER	227.88	220.94
6-205	TBD	TBD	WATER	TBD	TBD
6-206	TBD	TBD	WATER	TBD	TBD
6-207	TBD	TBD	WATER	TBD	TBD

SEEK LN
CARROLL AVE
UNIVERSITY BLVD
BAYFIELD ST
FORSTON ST
MATCHLINE TRK 1 STA 461+00
MATCHLINE TRK 1 STA. 472+50
PROP. ELECTRIC POLE (TYP)
PROP 8"W WITH 36" CASING
PROP. U/G ELECTRIC
PROP. 12" GAS
PROP. 16" GAS
PROP. U/G FIBER OPTIC
PROP 10"W WITH 36" CASING
OCS POLE (TYP)
℄ TRACK 1
℄ TRACK 2
PROP 8"SAN
PROP 6"W WITH 36" CASING
PROP 8" SAN
PROP 12"W
PROP CIH
PROP. 12" GAS W/CASING
PROP. 20" GAS-011
PROP. 4" GAS W/CASING
PROP HAND HOLE (TYP)
PROP 8"W
PROP. 4" GAS
PROP 12"W
TPSS #8
PROP. 5" ELECTRIC CONDUIT
6-205
6-206
6-207
6-012
6-014
6-017
6-018
6-019
6-020
6-024
S341
S351
S352
DPi-6-03
DP-6-04

LEGEND
- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

NOTES:
1. 5'6" MIN CLEARANCE FROM BASE OF RAIL TO TOP OF CASING AT ITS CLOSEST POINT.

40' 0 40' 80'
SCALE: 1"=40'

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DESIGN
DRAWN
CHECK
APPR

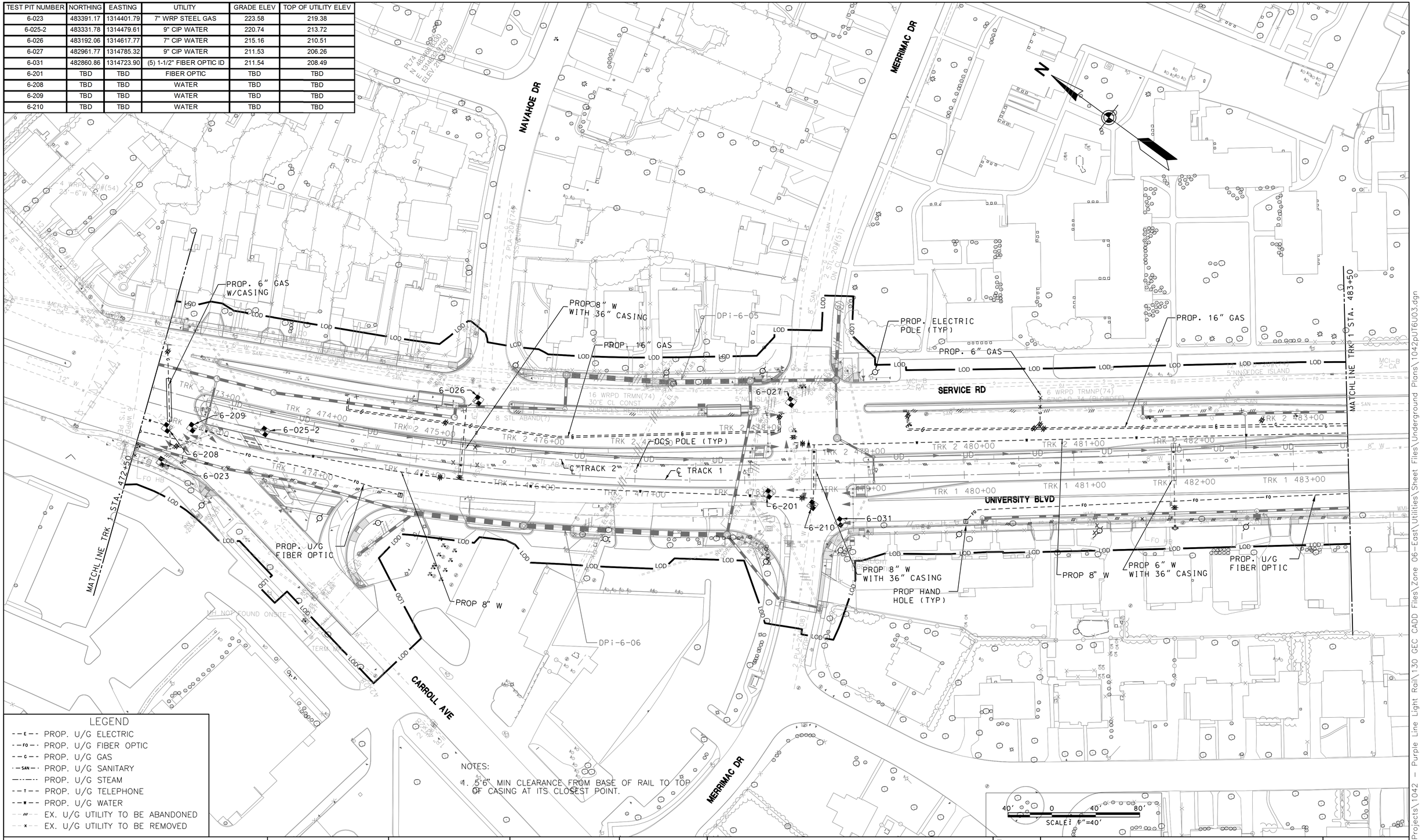
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 461+00 TO STA TRK 1 472+50
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-035
SHEET NO. 42 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Underground Plans\1042pUT6U02.dgn
12/11/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
6-023	483391.17	1314401.79	7" WRP STEEL GAS	223.58	219.38
6-025-2	483331.78	1314479.61	9" CIP WATER	220.74	213.72
6-026	483192.06	1314617.77	7" CIP WATER	215.16	210.51
6-027	482961.77	1314785.32	9" CIP WATER	211.53	206.26
6-031	482860.86	1314723.90	(5) 1-1/2" FIBER OPTIC ID	211.54	208.49
6-201	TBD	TBD	FIBER OPTIC	TBD	TBD
6-208	TBD	TBD	WATER	TBD	TBD
6-209	TBD	TBD	WATER	TBD	TBD
6-210	TBD	TBD	WATER	TBD	TBD



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

NOTES:

1. 5'6" MIN CLEARANCE FROM BASE OF RAIL TO TOP OF CASING AT ITS CLOSEST POINT.

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APPR | CHECK | DRAWN | DESIGN

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

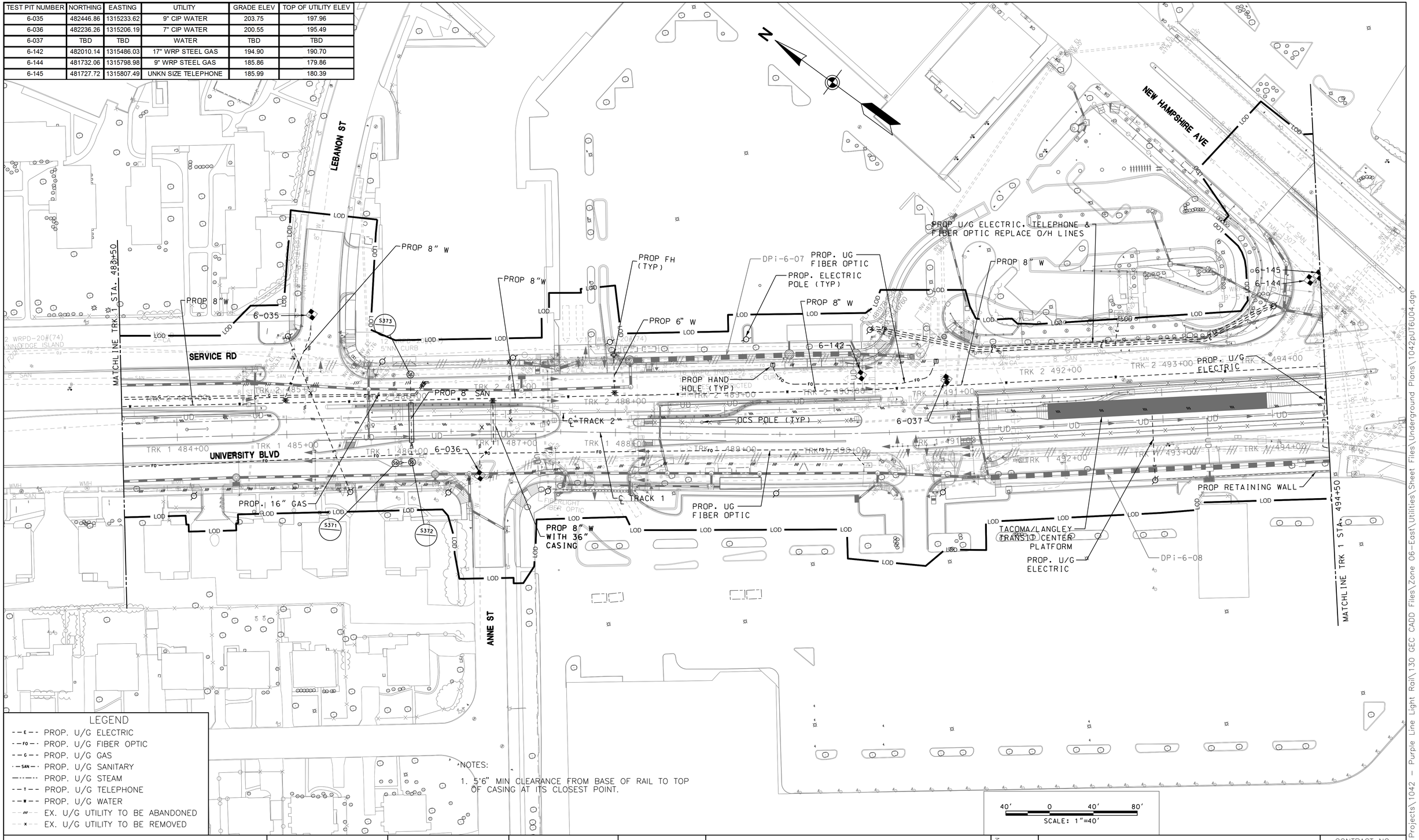
PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 472+50 TO STA TRK 1 483+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-036
SHEET NO. 43 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Underground Plans\1042PUT6U03.dgn
12/11/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
6-035	482446.86	1315233.62	9" CIP WATER	203.75	197.96
6-036	482236.26	1315206.19	7" CIP WATER	200.55	195.49
6-037	TBD	TBD	WATER	TBD	TBD
6-142	482010.14	1315486.03	17" WRP STEEL GAS	194.90	190.70
6-144	481732.06	1315798.98	9" WRP STEEL GAS	185.86	179.86
6-145	481727.72	1315807.49	UNKN SIZE TELEPHONE	185.99	180.39



LEGEND

- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

NOTES:

1. 5'6" MIN CLEARANCE FROM BASE OF RAIL TO TOP OF CASING AT ITS CLOSEST POINT.

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

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DESN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 483+50 TO STA TRK 1 494+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-037
SHEET NO. 44 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Underground Plans\1042PUT6U04.dgn
12/11/2013

TEST PIT NUMBER	NORTHING	EASTING	UTILITY	GRADE ELEV	TOP OF UTILITY ELEV
6-038	TBD	TBD	WATER	TBD	TBD
6-039	TBD	TBD	TELEPHONE	TBD	TBD
6-041	481503.62	1315908.55	9" WRP STEEL GAS	179.73	175.57
6-045	481347.66	1315987.47	(5) 1-1/2" PLA TELEPHONE	186.22	183.22
6-046	TBD	TBD	TBD	TBD	TBD
6-047	481405.35	1316032.95	11" CIP WATER	186.07	182.29
6-048	481162.30	1316237.95	10" WATER	183.48	179.69
6-049	481189.38	1316311.67	11" CIP WATER	182.64	179.48
6-147	TBD	TBD	GAS	TBD	TBD
6-148	481660.05	1315772.70	16-1/2" WRP STEEL GAS	185.49	179.09
6-149	481513.70	1315904.62	16-1/2" WRP STEEL GAS	185.62	182.15
6-211	TBD	TBD	FIBER OPTIC	TBD	TBD
6-212	TBD	TBD	WATER	TBD	TBD
6-213	TBD	TBD	WATER	TBD	TBD
6-214	TBD	TBD	WATER	TBD	TBD
6-215	TBD	TBD	WATER	TBD	TBD
6-216	TBD	TBD	WATER	TBD	TBD

PROP. ELECTRIC POLE (TYP)
PROP. 5" ELECTRIC CONDUIT
PROP. U/G FIBER OPTIC
TPSS #5
PROP. 8" GAS
PROP. 16" GAS
PROP FH (TYP.)
PROP 6" W WITH 36" CASING
EDWARDS PL
PROP. U/G ELECTRIC
PROP. 8" GAS
PROP. 16" GAS
PROP 8" W WITH 36" CASING
UNIVERSITY BLVD
C TRACK 2
C TRACK 1
OCS POLE (TYP)
PROP. U/G ELECTRIC
PROP RETAINING WALL
ENCASE EX. U/G TELEPHONE
PROP 12"W WITH 36" CASING
EX. U/G FIBER OPTIC TO BE REPLACED WITH O/H FIBER OPTIC
PROP. 8" GAS W/CASING
ENCASE EX. U/G FIBER OPTIC
PROP. U/G FIBER OPTIC
PROP 10"W
PROP 10"W WITH 36" CASING
PROP 8" W
PROP. U/G FIBER OPTIC
PROP HAND HOLE (TYP)
MATCHLINE TRK 1 STA. 494+50
MATCHLINE TRK 1 STA. 505+50
NEW HAMPSHIRE AVE

LEGEND
- PROP. U/G ELECTRIC
- PROP. U/G FIBER OPTIC
- PROP. U/G GAS
- PROP. U/G SANITARY
- PROP. U/G STEAM
- PROP. U/G TELEPHONE
- PROP. U/G WATER
- EX. U/G UTILITY TO BE ABANDONED
- EX. U/G UTILITY TO BE REMOVED

NOTES:
1. 5'6" MIN CLEARANCE FROM BASE OF RAIL TO TOP OF CASING AT ITS CLOSEST POINT.

40' 0 40' 80'
SCALE: 1"=40'

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MARYLAND TRANSIT ADMINISTRATION
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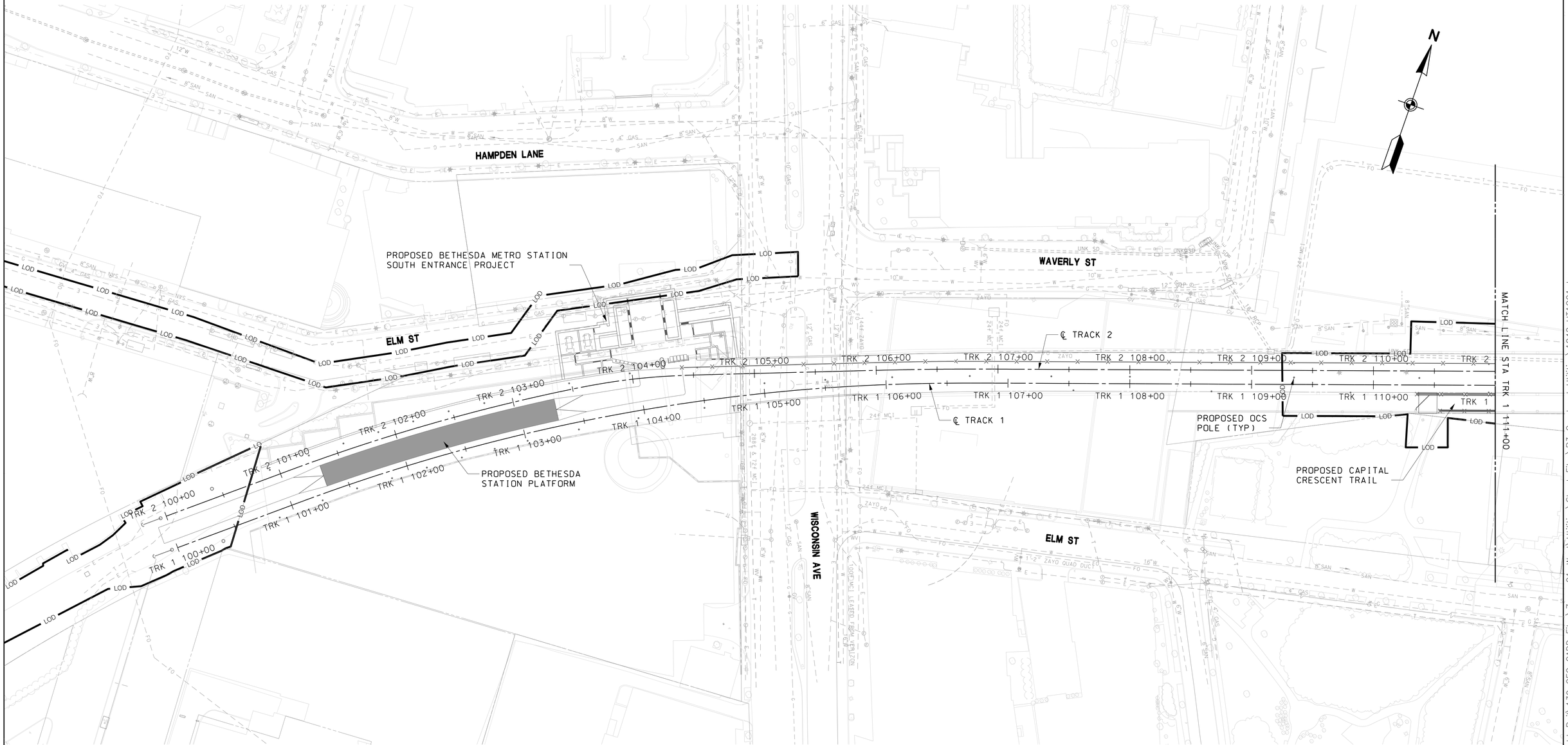
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP UNDERGROUND UTILITY RELOCATIONS
STA TRK 1 494+50 TO STA TRK 1 505+50
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-038
SHEET NO. 45 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Underground Plans\1042PUT6U05.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 100+00 TO TRK 1 111+00

40′ 0 40′ 80′
SCALE: 1"=40′

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DRAWN
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 100+00 TO STA TRK 1 111+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. UT–085
SHEET NO. 92 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 01–West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1001.dgn
12/10/2013

PEARL ST

MONTGOMERY AVE

ELM ST

PROPOSED SIDEWALK

PROPOSED CENTRAL INSTRUMENT HOUSE

PROPOSED CAPITAL CRESCENT TRAIL RAMP

PROPOSED RETAINING WALL (TYP)

PROPOSED TPSS 001

PROPOSED CAPITAL CRESCENT TRAIL

MATCH LINE STA TRK 1 111+00

MATCH LINE STA TRK 1 123+00

℄ TRACK 2

℄ TRACK 1

PROPOSED NOISE BARRIER (TYP)

PROPOSED OCS POLE (TYP)

TRK 2 111+00
TRK 2 112+00
TRK 2 113+00
TRK 2 114+00
TRK 2 115+00
TRK 2 116+00
TRK 2 117+00
TRK 2 118+00
TRK 2 119+00
TRK 2 120+00
TRK 2 121+00
TRK 2 122+00

TRK 1 111+00
TRK 1 112+00
TRK 1 113+00
TRK 1 114+00
TRK 1 115+00
TRK 1 116+00
TRK 1 117+00
TRK 1 118+00
TRK 1 119+00
TRK 1 120+00
TRK 1 121+00
TRK 1 122+00

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 111+00 TO TRK 1 123+00

40′ 0 40′ 80′
SCALE: 1"=40′

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 111+00 TO STA TRK 1 123+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-086
SHEET NO. 93 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1002.dgn
12/10/2013

MONTGOMERY AVE

EAST WEST HWY

LYNN DR

MATCH LINE STA TRK 1 123+00

MATCH LINE STA TRK 1 135+00

PROPOSED RETAINING WALL (TYP)

PROPOSED PEDESTRIAN ACCESS TO TRAIL

PROPOSED CAPITAL CRESCENT TRAIL

℄ TRACK 2

℄ TRACK 1

PROPOSED OCS POLE (TYP)

PROPOSED RETAINING WALL (TYP)

CTL GOV CABLE IN FIBERLIGHT DUCT BANK FO

TRK 2 123+00 TRK 2 124+00 TRK 2 125+00 TRK 2 126+00 TRK 2 127+00 TRK 2 128+00 TRK 2 129+00 TRK 2 130+00 TRK 2 131+00 TRK 2 132+00 TRK 2 133+00 TRK 2 134+00 TRK 2

TRK 1 123+00 TRK 1 124+00 TRK 1 125+00 TRK 1 126+00 TRK 1 127+00 TRK 1 128+00 TRK 1 129+00 TRK 1 130+00 TRK 1 131+00 TRK 1 132+00 TRK 1 133+00 TRK 1 134+00 TRK 1

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 123+00 TO TRK 1 135+00

40′ 0 40′ 80′

SCALE: 1"=40′

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 123+00 TO STA TRK 1 135+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. UT–087

SHEET NO. 94 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1003.dgn
12/10/2013

SLEAFORD RD

KENTBURY WAY

KENTBURY WAY

KENTBURY DR

N

PROPOSED PEDESTRIAN ACCESS TO TRAIL

PROPOSED PEDESTRIAN ACCESS TO TRAIL

PROPOSED CAPITAL CRESCENT TRAIL

℄ TRACK 2

PROPOSED RETAINING WALL (TYP)

MATCH LINE STA TRK 1 135+00

TRK 2 135+00 TRK 2 136+00 TRK 2 137+00 TRK 2 138+00 TRK 2 139+00 TRK 2 140+00 TRK 2 141+00 TRK 2 142+00 TRK 2 143+00 TRK 2 144+00 TRK 2 145+00 TRK 2 146+00 TRK 2

TRK 1 135+00 TRK 1 136+00 TRK 1 137+00 TRK 1 138+00 TRK 1 139+00 TRK 1 140+00 TRK 1 141+00 TRK 1 142+00 TRK 1 143+00 TRK 1 144+00 TRK 1 145+00 TRK 1 146+00 TRK 1

MATCH LINE STA TRK 1 147+00

PROPOSED TUNNEL FOR TRAIL

℄ TRACK 1

PROPOSED OCS POLE (TYP)

PROPOSED NOISE BARRIER (TYP)

PROPOSED PEDESTRIAN ACCESS TO TRAIL

EDGEVALE CT

EDGEVALE ST

EAST WEST HWY

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 135+00 TO TRK 1 147+00

40′ 0 40′ 80′

SCALE: 1"=40′

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS STA TRK 1 135+00 TO STA TRK 1 147+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-088

SHEET NO. 95 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1004.dgn 12/10/2013

KENTBURY DR

EDGEVALE ST

MATCH LINE STA TRK 1 147+00

MATCH LINE STA TRK 1 159+00

PROPOSED CAPITAL CRESCENT TRAIL

℄ TRACK 2

℄ TRACK 1

PROPOSED TUNNEL FOR GOLF CART UNDERPASS

PROPOSED OCS POLE (TYP)

PROPOSED RETAINING WALL (TYP)

TRK 2 147+00 TRK 2 148+00 TRK 2 149+00 TRK 2 150+00 TRK 2 151+00 TRK 2 152+00 TRK 2 153+00 TRK 2 154+00 TRK 2 155+00 TRK 2 156+00 TRK 2 157+00 TRK 2 158+00 TRK 2 159+00

TRK 1 147+00 TRK 1 148+00 TRK 1 149+00 TRK 1 150+00 TRK 1 151+00 TRK 1 152+00 TRK 1 153+00 TRK 1 154+00 TRK 1 155+00 TRK 1 156+00 TRK 1 157+00 TRK 1 158+00 TRK 1 159+00

LOD

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 147+00 TO TRK 1 159+00

40′ 0 40′ 80′

SCALE: 1"=40′

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DESIGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 147+00 TO STA TRK 1 159+00

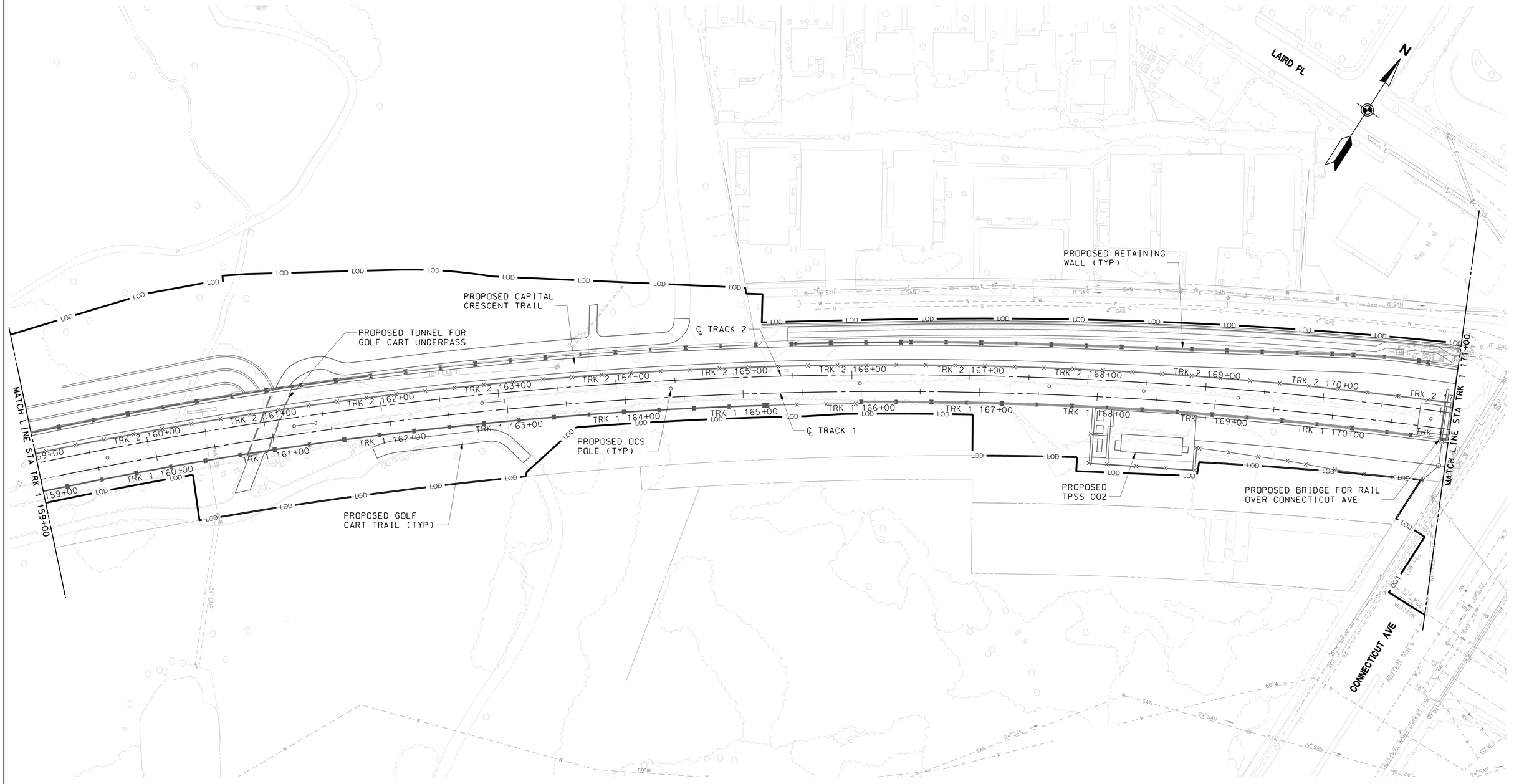
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-089

SHEET NO. 96 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1005.dgn
12/10/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS
FROM STA TRK 1 159+00 TO TRK 1 171+00

40' 0 40' 80'
SCALE: 1"=40'

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 159+00 TO STA TRK 1 171+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-090

SHEET NO. 97 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1006.dgn
12/10/2013

CONNECTICUT AVE

EXISTING POLE P#777422-2785 TO REMAIN

PROPOSED OVERHEAD TELECOM

PROPOSED OVERHEAD ELECTRIC

PROPOSED UTILITY POLE

PROPOSED CAPITAL CRESCENT TRAIL

℄ TRACK 2

℄ TRACK 1

PROPOSED RETAINING WALL (TYP)

PROPOSED OCS POLE (TYP)

PROPOSED CONNECTICUT AVENUE PLATFORM

REMOVE EXISTING UTILITY POLE (P#778422-0187)

REMOVE EXISTING UTILITY POLE (P#778422-0178)

EXISTING POLE P#777422-0267 TO REMAIN

CHEVY CHASE LAKE DR

MATCH LINE STA TRK 1 171+00

MATCH LINE STA TRK 1 183+00

TRK 2 172+00 TRK 2 173+00 TRK 2 174+00 TRK 2 175+00 TRK 2 176+00 TRK 2 177+00 TRK 2 178+00 TRK 2 179+00 TRK 2 180+00 TRK 2 181+00 TRK 2 182+00

TRK 1 172+00 TRK 1 173+00 TRK 1 174+00 TRK 1 175+00 TRK 1 176+00 TRK 1 177+00 TRK 1 178+00 TRK 1 179+00 TRK 1 180+00 TRK 1 181+00 TRK 1 182+00

LOD

N

40′ 0 40′ 80′

SCALE: 1"=40′

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 171+00 TO STA TRK 1 183+00

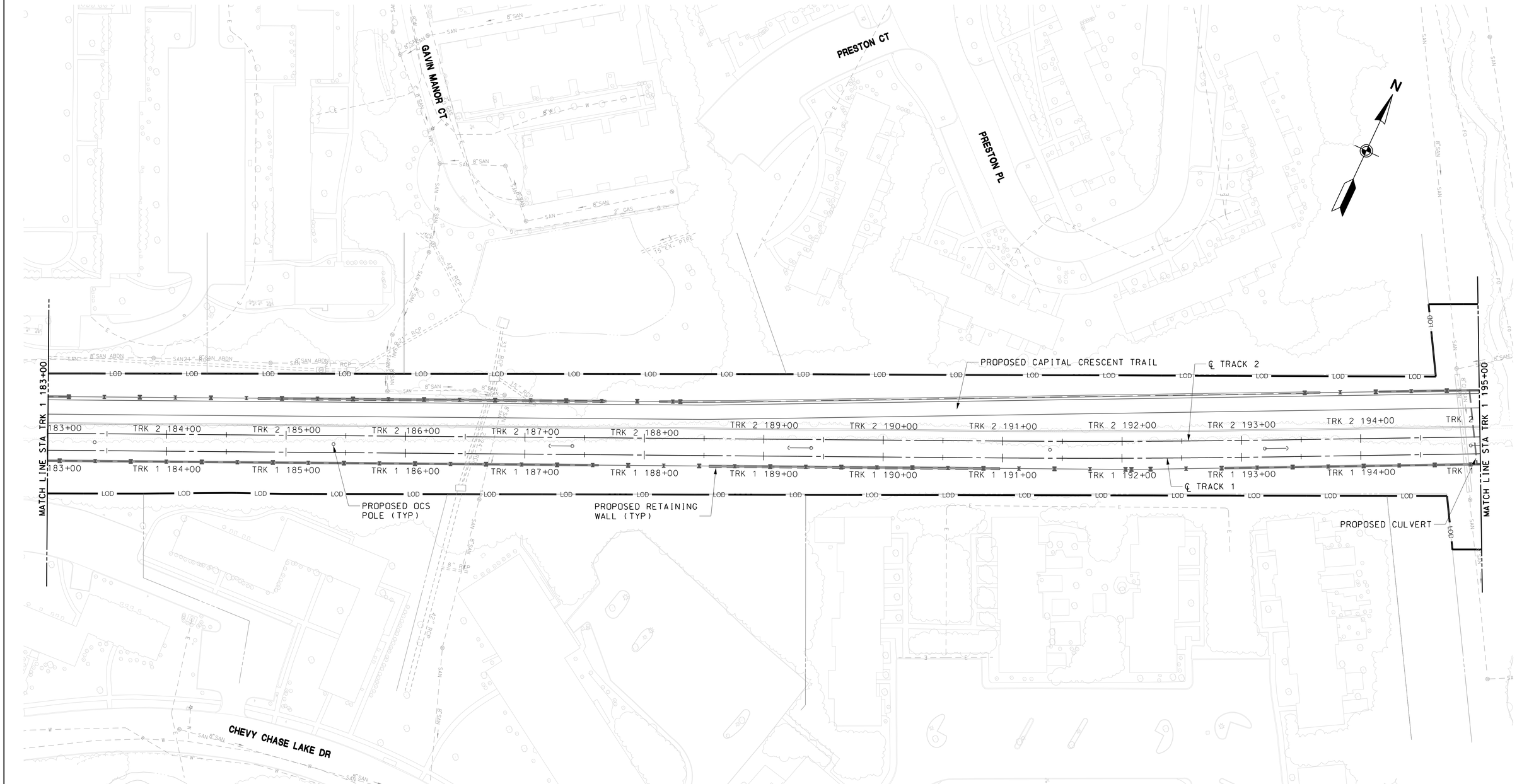
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-091

SHEET NO. 98 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1007.dgn
12/10/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 183+00 TO TRK 1 195+00

40′ 0 40′ 80′
SCALE: 1"=40′

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DESGN | DRAWN | CHECK | APPR

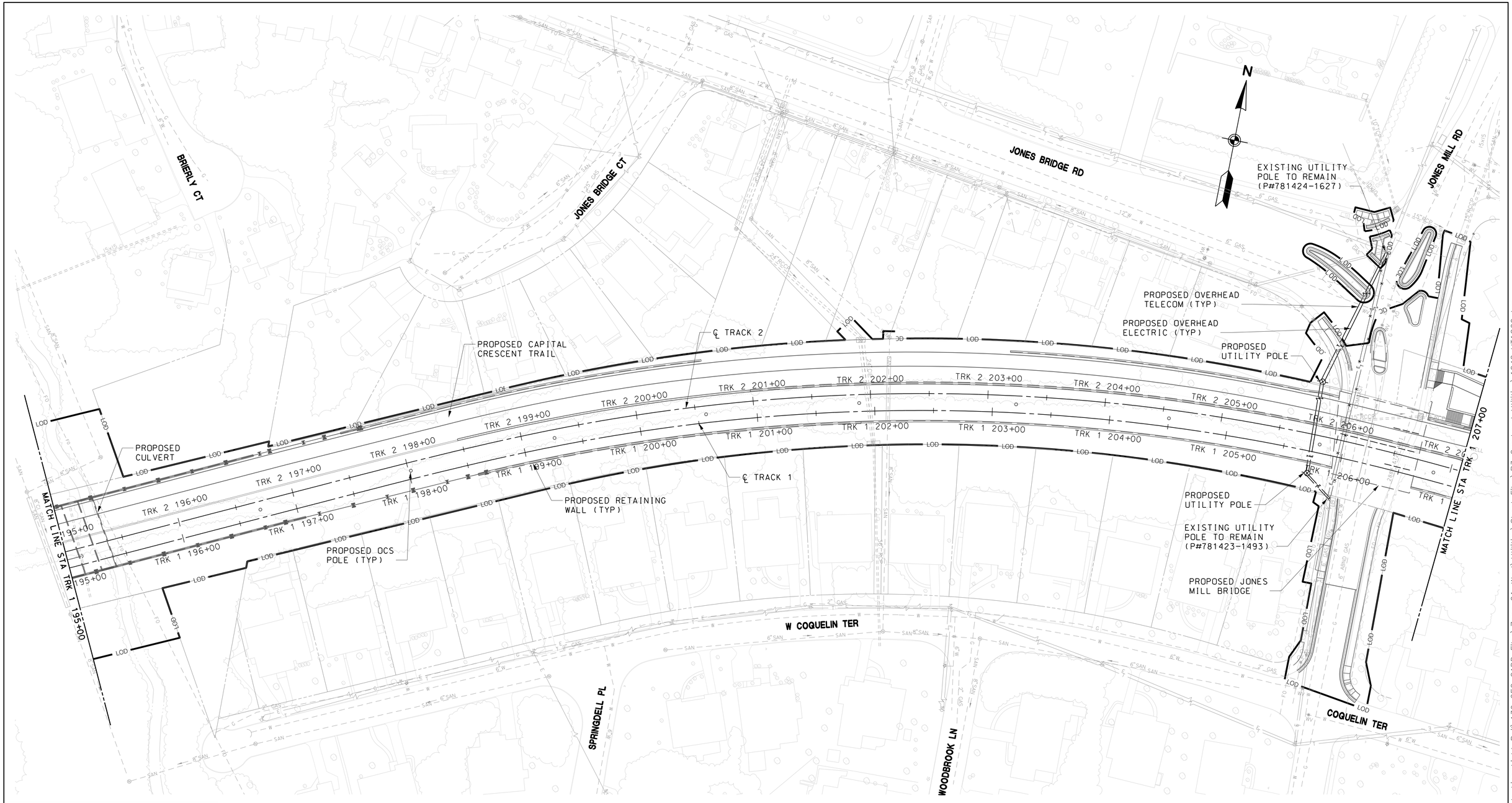
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 183+00 TO STA TRK 1 195+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. UT–092
SHEET NO. 99 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 01–West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1008.dgn
12/10/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1″=40′

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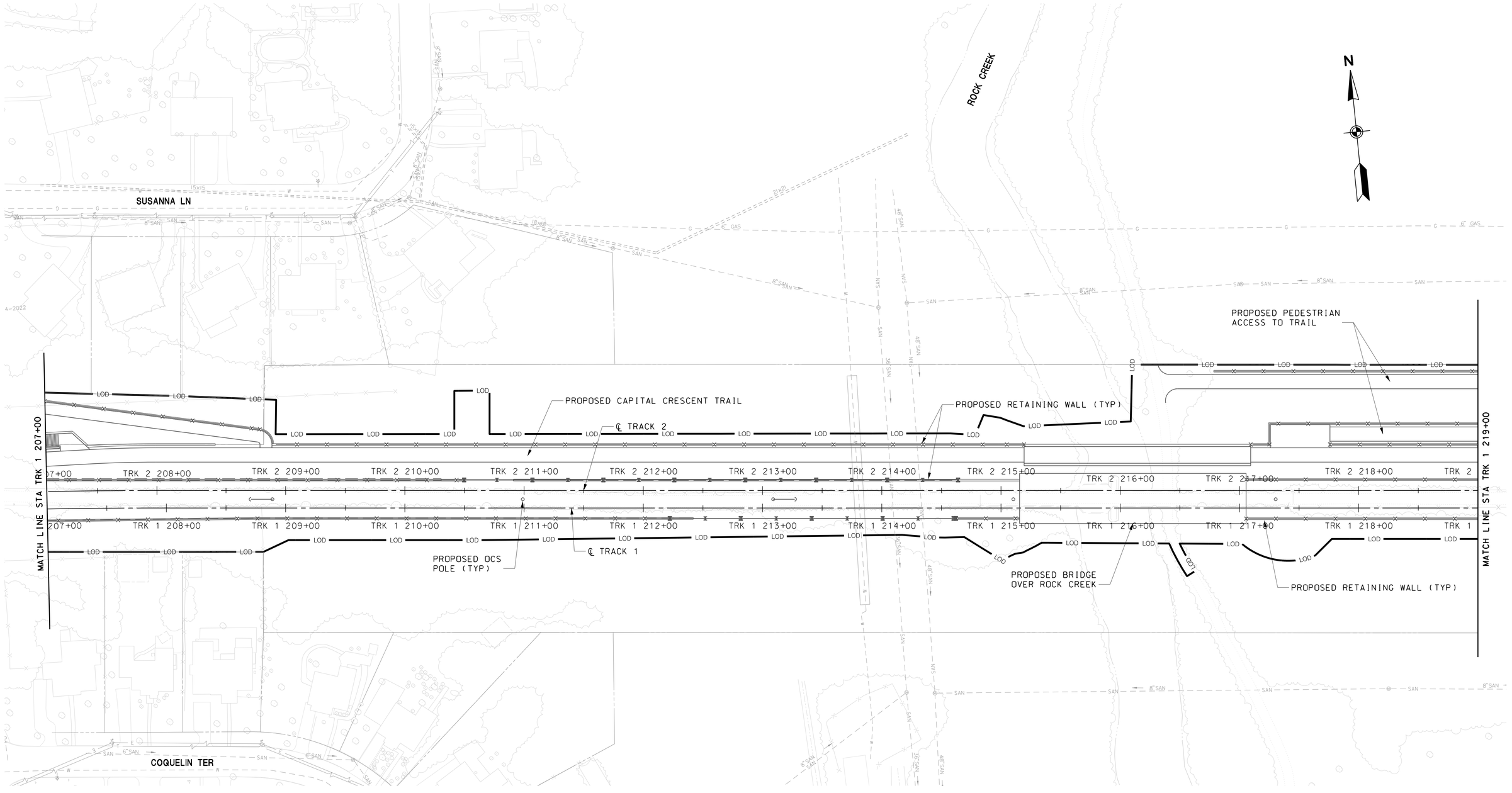
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 195+00 TO STA TRK 1 207+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-093
SHEET NO. 100 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1009.dgn
12/10/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

NO OVERHEAD UTILITY RELOCATIONS FROM STA TRK 1 207+00 TO TRK 1 219+00

40′ 0 40′ 80′
SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No. Expiration Date

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 207+00 TO STA TRK 1 219+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-094
SHEET NO. 101 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1010.dgn
12/10/2013

N

BROOKVILLE RD

MATCH LINE STA TRK 1 219+00

MATCH LINE STA TRK 1 231+00

PROPOSED PEDESTRIAN ACCESS TO TRAIL

PROPOSED TPSS 003

PROPOSED CENTRAL INSTRUMENT HOUSE

℄ TRACK 2

℄ TRACK 1

TRK 2 219+00 TRK 2 220+00 TRK 2 221+00 TRK 2 222+00 TRK 2 223+00 TRK 2 224+00 TRK 2 225+00 TRK 2 226+00 TRK 2 227+00 TRK 2 228+00 TRK 2 229+00 TRK 2 230+00

TRK 1 219+00 TRK 1 220+00 TRK 1 221+00 TRK 1 222+00 TRK 1 223+00 TRK 1 224+00 TRK 1 225+00 TRK 1 226+00 TRK 1 227+00 TRK 1 228+00 TRK 1 229+00 TRK 1 230+00 TRK 1 231+00

PROPOSED RETAINING WALL (TYP)

PROPOSED OCS POLE (TYP)

PROPOSED CAPITAL CRESCENT TRAIL

REMOVE EXISTING UTILITY POLE (P#783423-6392)

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#783423-6588)

PROPOSED OVERHEAD ELECTRIC

EXISTING UTILITY POLE TO REMAIN (P#783423-5377)

GRUBB RD

LOD

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS STA TRK 1 219+00 TO STA TRK 1 231+00

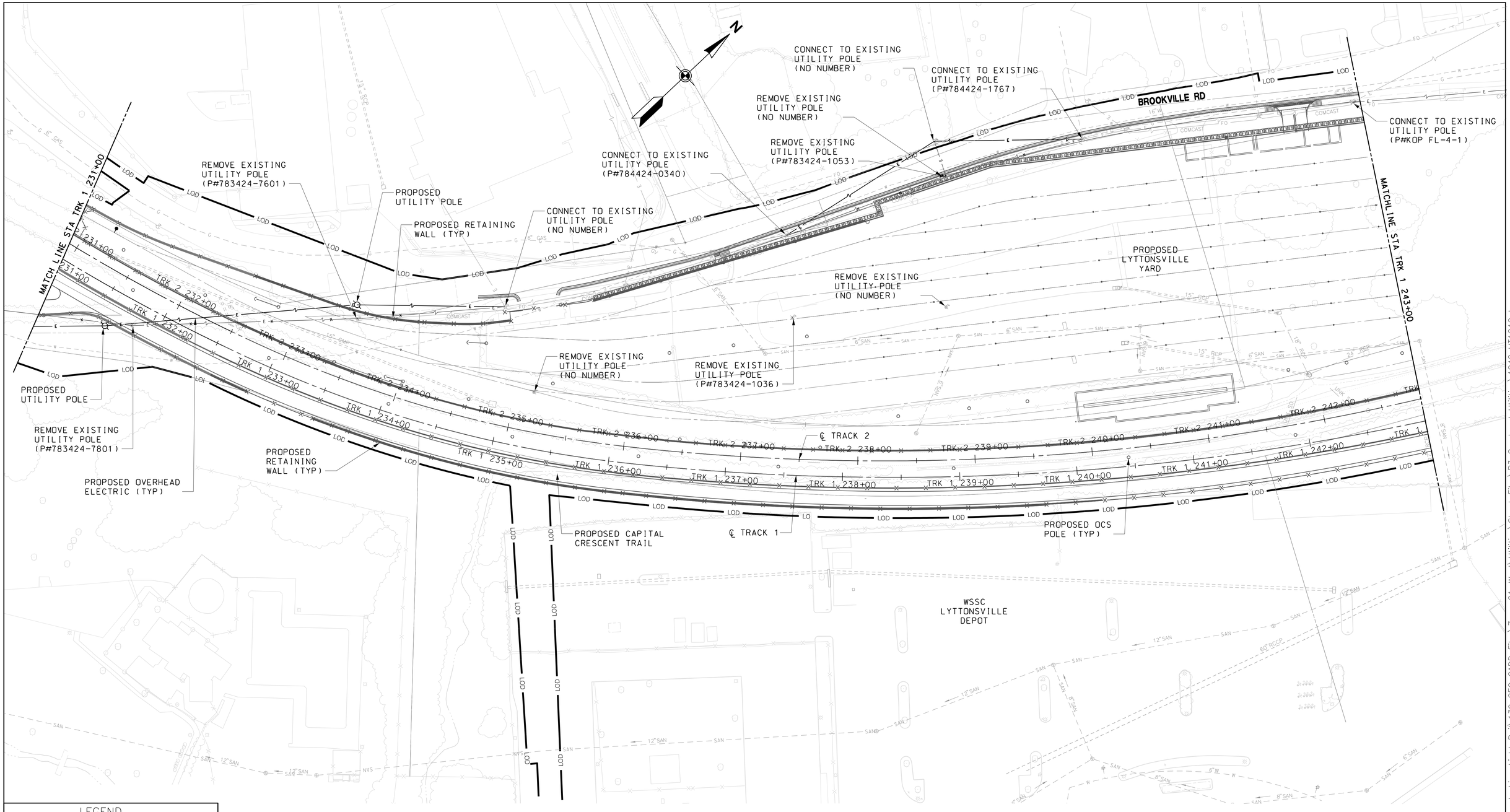
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-095

SHEET NO. 102 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1011.dgn 12/10/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 231+00 TO STA TRK 1 243+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-096

SHEET NO. 103 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1012.dgn
12/10/2013

EXISTING UTILITY POLE TO REMAIN (P#784424-3099)

PROPOSED OVERHEAD ELECTRIC (TYP)

PROPOSED OVERHEAD ELECTRIC (TYP)

EXISTING UTILITY POLE TO REMAIN (P#784425-4416)

PROPOSED OVERHEAD FIBER OPTIC

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (NO NUMBER)

PROPOSED ELECTRIC AND FIBER OPTIC MANHOLES

BROOKVILLE RD

EXISTING UTILITY POLE TO REMAIN (NO NUMBER)

PROPOSED OVERHEAD ELECTRIC (TYP)

PROPOSED CENTRAL INSTRUMENT HOUSE

REMOVE EXISTING UTILITY POLE (NO NUMBER)

PROPOSED OCS POLE (TYP)

℄ TRACK 2

REMOVE EXISTING UTILITY POLE (NO NUMBER)

PROPOSED UTILITY POLE

MATCH LINE STA TRK 1 243+00

TRK 2 243+00 TRK 2 245+00 TRK 2 246+00 TRK 2 247+00 TRK 2 248+00 TRK 2 249+00 TRK 2 250+00 TRK 2 251+00 TRK 2 252+00 TRK 2 253+00 TRK 2 254+00 TRK 2 255+00

243+00 TRK 1 244+00 TRK 1 245+00 TRK 1 246+00 TRK 1 247+00 TRK 1 248+00 TRK 1 249+00 TRK 1 250+00 TRK 1 251+00 TRK 1 252+00 TRK 1 253+00 TRK 1 254+00 TRK 1 255+00

℄ TRACK 1

REMOVE EXISTING UTILITY POLE (NO NUMBER)

PROPOSED UTILITY POLE

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (NO NUMBER)

PROPOSED LYTTONSVILLE PLACE STATION PLATFORM

PROPOSED CAPITAL CRESENT TRAIL

REMOVE EXISTING UTILITY POLE (NO NUMBER)

PROPOSED RETAINING WALL (TYP)

LYTTONSVILLE PL

PROPOSED LYTTONSVILLE PLACE OVERPASS

EXISTING UTILITY POLE TO REMAIN (P#789423-7767)

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1″=40′

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

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DESIGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 243+00 TO STA TRK 1 255+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-097

SHEET NO. 104 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 01-West\Utilities\Sheet Files\P3 Overhead Utilities\1042pUT1013.dgn
12/10/2013

BROOKVILLE RD

PERKINS PL

TALBOT AVE

STEWART AVE

KANSAS AVE

PENNSYLVANIA AVE

PROPOSED TRAFFIC SIGNAL POLE

EXISTING UTILITY POLE TO REMAIN (P#785426-1907)

PROPOSED OVERHEAD ELECTRIC

PROPOSED UTILITY POLES

PROPOSED RETAINING WALL

℄ TRACK 2

℄ TRACK 1

PROPOSED OCS POLE (TYP)

PROPOSED GATE (TYP)

PROPOSED RETAINING WALL

PROPOSED CAPITAL CRESCENT TRAIL

REMOVE EXISTING UTILITY POLE (P# TBD)

EXISTING UTILITY POLE TO REMAIN (P#786426-0600)

MATCH LINE STA TRK 1 267+00

MATCH LINE STA TRK 1 255+00

PROPOSED COMMERICAL ACCESS DRIVEWAY

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLES (P#785425-2987) (P#785426-3192)

PROPOSED OVERHEAD ELECTRIC

PROPOSED UTILITY POLE

EXISTING UTILITY POLE TO REMAIN (P#785426-4682)

N

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1″=40′

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MTA Maryland

Gannett Fleming

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DESGN

DRAWN

CHECK

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PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS STA TRK 1 255+00 TO STA TRK 1 267+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-098

SHEET NO. 105 OF 259

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12/18/2013

LUZERNE AVE

HANOVER ST

RELOCATED SIDETRACK

EXISTING UTILITY POLE TO REMAIN (P#786426-2910)

BEGIN PROPOSED RETAINING WALL

REMOVE EXISTING UTILITY POLE (P#786426-4991)

CSX TRACK ℄

PROPOSED UTILITY POLE

PROPOSED OCS POLE (TYP)

REMOVE EXISTING UTILITY POLE (P#786425-6283)

REMOVE EXISTING UTILITY POLE (P#786425-6977)

REMOVE EXISTING UTILITY POLE (P#786425-7772)

REMOVE EXISTING UTILITY POLE (P#786426-9364)

PROPOSED UTILITY POLE

EXISTING UTILITY POLE TO REMAIN (P# 7_4913)

EXISTING UTILITY POLE TO REMAIN (P#787425-2065)

PROPOSED SIDEWALK

4TH AVE

PROPOSED CAPITAL CRESCENT TRAIL

TALBOT AVE

PROPOSED BRIDGE

℄ TRACK 2

MATCH LINE STA TRK 1 267+00

MATCH LINE STA TRK 1 279+00

TRK 2 268+00 TRK 2 269+00 TRK 2 270+00 TRK 2 271+00 TRK 2 272+00 TRK 2 273+00 TRK 2 274+00 TRK 2 275+00 TRK 2 276+00 TRK 2 277+00 TRK 2 278+00

TRK 1 270+00 TRK 1 271+00 TRK 1 272+00 TRK 1 273+00 TRK 1 274+00 TRK 1 275+00 TRK 1 276+00 TRK 1 277+00 TRK 1 278+00

TRK 1 268+00 TRK 1 269+00 267+00

PROPOSED RETAINING WALL

PROPOSED CAPITAL CRESCENT TRAIL

TALBOT AVE

℄ TRACK 1

REMOVE EXISTING UTILITY POLE (P#744915)

PROPOSED UTILITY POLE

PROPOSED UTILITY POLES

PROPOSED OVERHEAD ELECTRIC (TYP)

PROPOSED UTILITY POLE

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#787425-0458)

REMOVE EXISTING UTILITY POLE (P# NOT FOUND)

REMOVE EXISTING UTILITY POLE (P#787425-1251)

PROPOSED SIDEWALK

EXISTING UTILITY POLE TO REMAIN (P#786425-7360)

PROPOSED TRACTION POWER SUBSTATION (TPSS)

PROPOSED TPSS GROUNDING BED

EXISTING UTILITY POLE TO REMAIN (P# 786425-3477)

KANSAS AVE

MICHIGAN AVE

LANIER DR

PENNSYLVANIA AVE

LOD

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1″=40′

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

JACOBS

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 267+00 TO STA TRK 1 279+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-099

SHEET NO. 106 OF 259

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12/18/2013

GRACE CHURCH RD

LYTTONSVILLE RD

PROPOSED UTILITY POLE

PROPOSED OVERHEAD ELECTRIC (TYP)

EXISTING UTILITY POLE TO REMAIN (P#787424-3855)

REMOVE EXISTING UTILITY POLE (P#787425-2960)

EXISTING UTILITY POLE TO REMAIN (P# 787425-9344)

PROPOSED OVERHEAD ELECTRIC (TYP)

REMOVE EXISTING UTILITY POLE (P# 787425-7640)

PROPOSED UTILITY POLE
SEE UNDERGROUND UTILITY RELOCATION PLAN FOR NEW ALIGNMENT OF ELECTRIC DUCTBANK

PROPOSED ACCESS TO PROPOSED CAPITAL CRESCENT TRAIL

PROPOSED RETAINING WALL

PROPOSED CAPITAL CRESCENT TRAIL

BEGIN PROPOSED RETAINING WALL

PROPOSED FENCE

MATCH LINE STA TRK 1 279+00

MATCH LINE STA TRK 1 291+00

CSX TRACK ℄

PROPOSED RETAINING WALL

℄ TRACK 2

℄ TRACK 1

PROPOSED OCS POLE (TYP)

PROPOSED RETAINING WALL

ROSEMARY HILLS DR

LEONARD DR

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1″=40′

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 279+00 TO STA TRK 1 291+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-100
SHEET NO. 107 OF 259

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12/18/2013

PROPOSED UTILITY POLE

PROPOSED OVERHEAD ELECTRIC (TYP)

EXISTING UTILITY POLE TO REMAIN (P# 788424-8768)

16TH ST

3RD AVE

NOYES DR

N SPRINGWOOD DR

S SPRINGWOOD DR

PROPOSED CAPITAL CRESCENT TRAIL

ABANDON EXISTING UTILITY POLE (P# NOT FOUND)

PROPOSED RETAINING WALL

PROPOSED CAPITAL CRESCENT TRAIL

REMOVE EXISTING UTILITY POLE (P# SPSK6 696 240)

EXISTING 12' WSSC EASEMENT

PROPOSED DRIVEWAY

CSX SIDING EASEMENT

CSX TRACKS ℄

WMATA TRACKS ℄

PROPOSED RETAINING WALL

℄ TRACK 2

℄ TRACK 1

PROPOSED RAMP AND STAIRS

PROPOSED OCS POLE (TYP)

16TH ST / WOODSIDE PLATFORM

PROPOSED SIDEWALK

PROPOSED RETAINING WALL

PROPOSED RETAINING WALL

PROPOSED SIDEWALK

MATCH LINE STA TRK 1 291+00

MATCH LINE STA TRK 1 303+00

TRK 2 291+00 TRK 2 292+00 TRK 2 293+00 TRK 2 294+00 TRK 2 295+00 TRK 2 296+00 TRK 2 297+00 TRK 2 298+00 TRK 2 299+00 TRK 2 300+00 TRK 2 301+00 TRK 2 302+00

TRK 1 291+00 TRK 1 292+00 TRK 1 293+00 TRK 1 294+00 TRK 1 295+00 TRK 1 296+00 TRK 1 297+00 TRK 1 298+00 TRK 1 299+00 TRK 1 300+00 TRK 1 301+00 TRK 1 302+00

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

JACOBS — STV — STV Incorporated

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 291+00 TO STA TRK 1 303+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-101

SHEET NO. 108 OF 259

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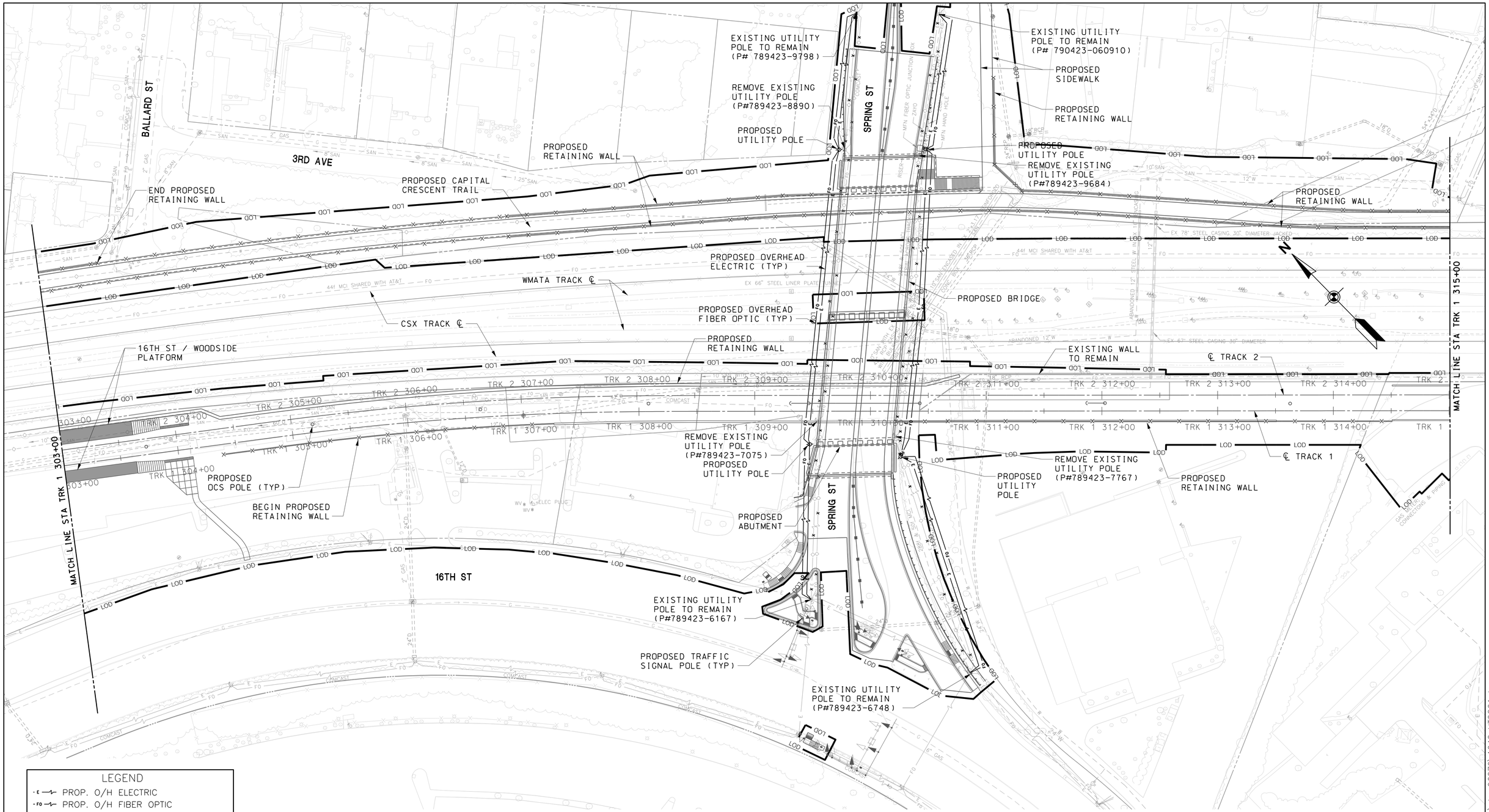
12/18/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 303+00 TO STA TRK 1 315+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-102

SHEET NO. 109 OF 259

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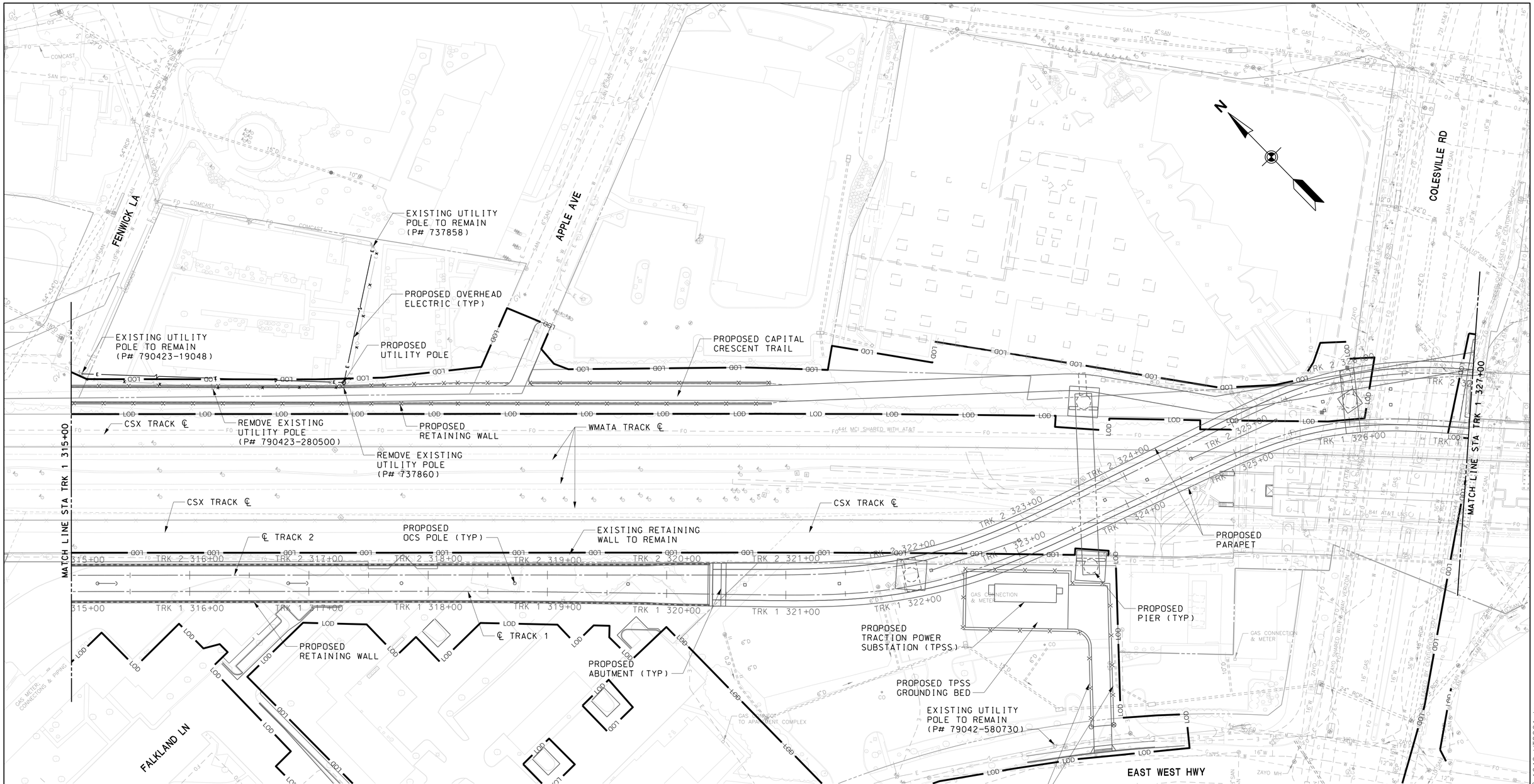
12/18/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1″=40′

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 315+00 TO STA TRK 1 327+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-103
SHEET NO. 110 OF 259

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12/18/2013

COLESVILLE RD

MATCH LINE STA TRK 1 327+00

CSX TRACK ℄

WMATA PLATFORM

PROPOSED RETAINING WALL

PROPOSED PIER (TYP)

CSX TRACK ℄

SSTC CONNECTION TO WMATA

SILVER SPRING TRANSIT CENTER (UNDER CONSTRUCTION BY OTHERS)

PROPOSED ELEVATOR AND STAIR

EXISTING ESCALATOR

EXISTING STAIRS

PROPOSED ELEVATOR

℄ TRACK 2

RAMSEY AVE

PROPOSED UTILITY POLE

PROPOSED OVERHEAD ELECTRIC & TELECOM

EXISTING UTILITY POLE

BONIFANT ST

MATCH LINE STA TRK 1 336+00

PROPOSED OCS POLE (TYP)

RELOCATE EXISTING UTILITY POLE (P#791422-6737)

PROPOSED ABUTMENT (TYP)

RIPIFANT RD (BY OTHERS)

PROPOSED PARAPET

PROPOSED RETAINING WALL

℄ TRACK 1

WMATA TRACK ℄

N

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1″=40′

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

JACOBS

STV

STV Incorporated

PROFESSIONAL CERTIFICATION

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License No. Expiration Date

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS STA TRK 1 327+00 TO STA TRK 1 336+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-104

SHEET NO. 111 OF 259

c:\pwworking\mtapw\je-brenda.duong\dms96279\1042pUT2001.dgn
12/18/2013

RAMSEY AVE

DIXON AVE

ALLEY

GEORGIA AVE

ALLEY

BONIFANT ST

MATCH LINE STA TRK 1 336+00

MATCH LINE STA TRK 1 345+00

PROPOSED RETAINING WALL

PROPOSED OCS POLE (TYP)

PROPOSED OVERHEAD TELECOM (TYP)

PROPOSED OVERHEAD ELECTRIC (TYP)

EXISTING UTILITY POLE TO REMAIN (P#792422-1648)

PROPOSED TRAFFIC SIGNAL POLE (TYP)

PROPOSED OVERHEAD ELECTRIC & TELECOM

℄ TRACK 2

℄ TRACK 1

TRK 2 336+00

TRK 2 337+00

TRK 2 338+00

TRK 2 339+00

TRK 2 340+00

TRK 2 341+00

TRK 2 342+00

TRK 2 343+00

TRK 2 344+00

TRK 2 345+00

TRK 1 337+00

TRK 1 338+00

TRK 1 339+00

TRK 1 340+00

TRK 1 341+00

TRK 1 342+00

TRK 1 343+00

TRK 1 344+00

PROPOSED SIDEWALK

PROPOSED RETAINING WALL

PROPOSED UTILITY POLE

RELOCATE EXISTING UTILITY POLE (P#792422-2339)

PROPOSED UTILITY POLE

RELOCATE EXISTING UTILITY POLE (P#92422-1353)

EVALUATE OVERHEAD WIRE HEIGHT POLE REPLACEMENT TO BE DETERMINED

THAYER AVE

LOD

N

40′ 0 40′ 80′

SCALE: 1"=40′

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 336+00 TO STA TRK 1 345+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-105

SHEET NO. 112 OF 259

c:\pwworking\mtapw\je-brenda duong\dms96279\1042pUT2001.dgn
12/18/2013

GEORGIA AVE

BONIFANT ST

THAYER AVE

WAYNE AVE

FENTON ST

BONIFANT ST

℄ TRACK 1

℄ TRACK 2

MATCH LINE STA TRK 1 345+00

MATCH LINE STA TRK 1 354+00

TRK 1 345+00

TRK 2 345+00

TRK 1 346+00

TRK 2 346+00

TRK 1 347+00

TRK 2 347+00

TRK 1 348+00

TRK 2 348+00

TRK 1 349+00

TRK 2 349+00

TRK 1 350+00

TRK 2 350+00

TRK 1 351+00

TRK 2 351+00

TRK 1 352+00

TRK 2 352+00

TRK 1 353+00

TRK 2 353+00

TRK 1 354+00

TRK 2 354+00

LOD

FUTURE SILVER SPRING LIBRARY

PROPOSED SILVER SPRING LIBRARY STATION

EXISTING UTILITY POLE TO REMAIN (P#793423-0308)

PROPOSED OCS POLE (TYP)

EXISTING UTILITY POLE TO REMAIN (P#792423-8905)

REMOVE EXISTING UTILITY POLE (P#792423-0116)

EXISTING TRAFFIC SIGNAL POLE (TYP)

PROPOSED TRAFFIC SIGNAL POLE (TYP)

PROPOSED UTILITY POLE

PROPOSED OVERHEAD FIBER OPTIC (TYP)

PROPOSED OVERHEAD TELECOM (TYP)

PROPOSED OVERHEAD ELECTRIC (TYP)

FUTURE SILVER SPRING LIBRARY

N

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 345+00 TO STA TRK 1 354+00

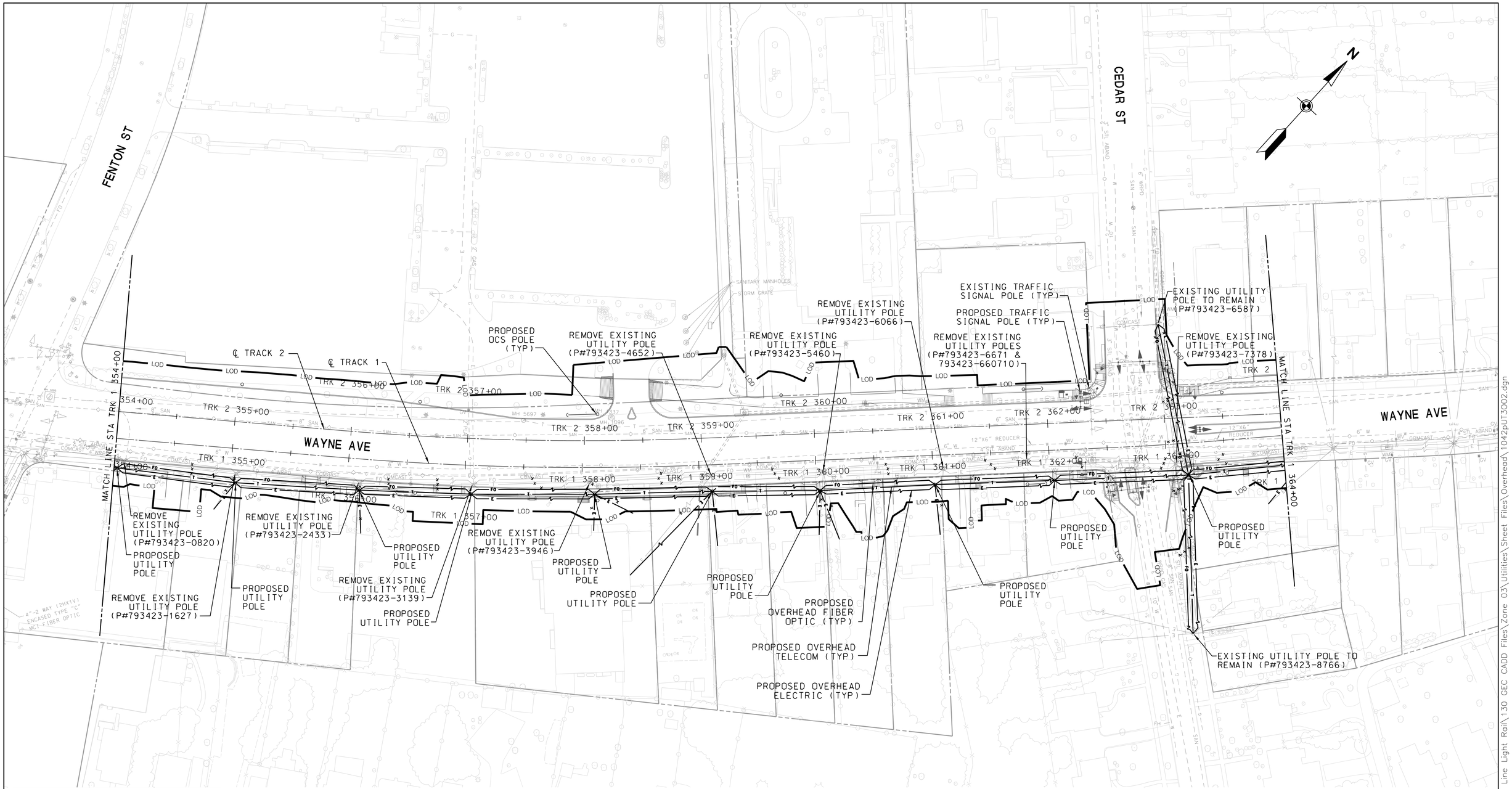
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. UT–106

SHEET NO. 113 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Overhead\1042pUT3001.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

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DESIGN
DRAWN
CHECK
APPR

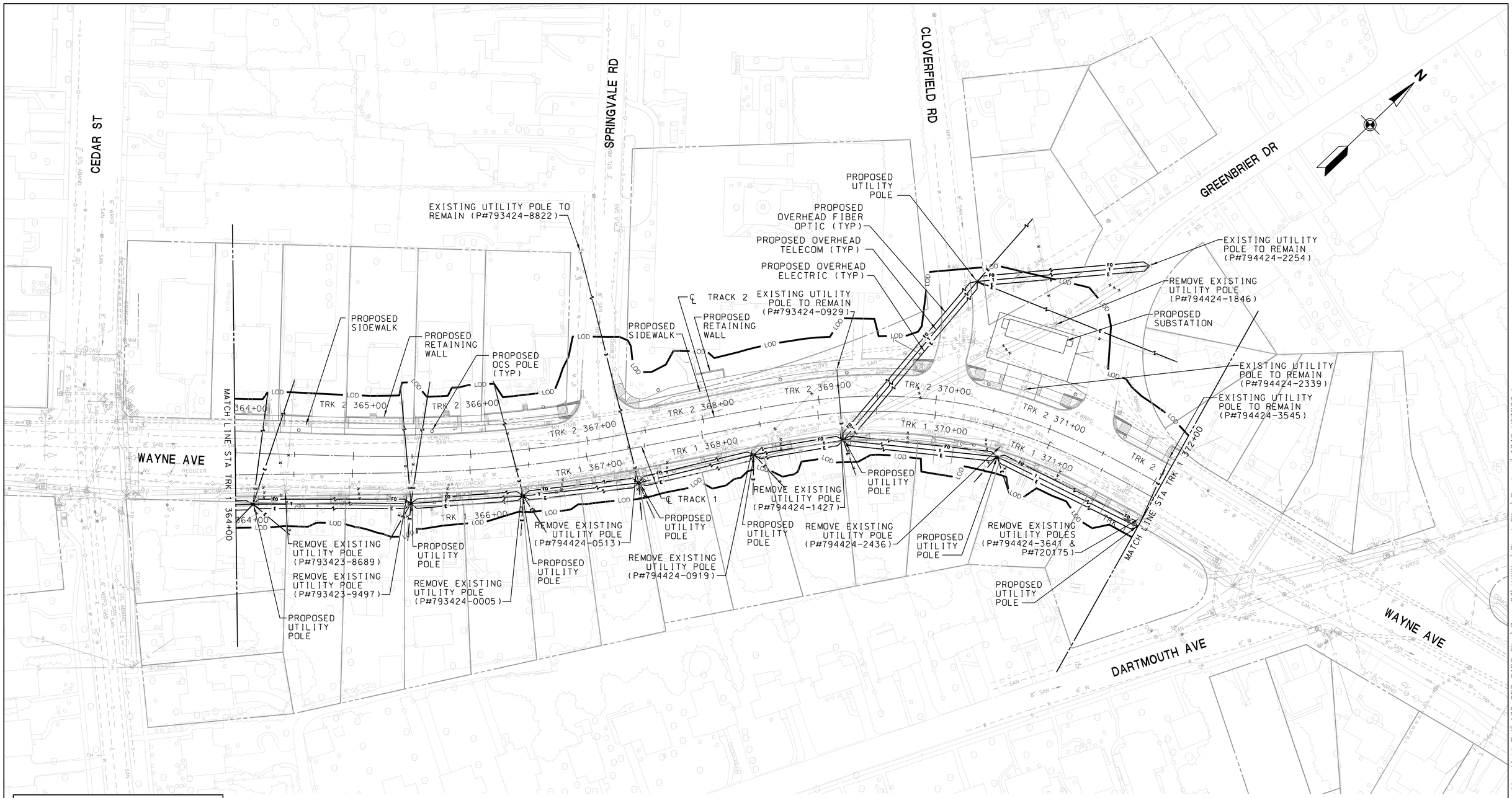
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 354+00 TO STA TRK 1 364+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. UT–107
SHEET NO. 114 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Overhead\1042pUT3002.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1″=40′

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DESGN
DRAWN
CHECK
APPR

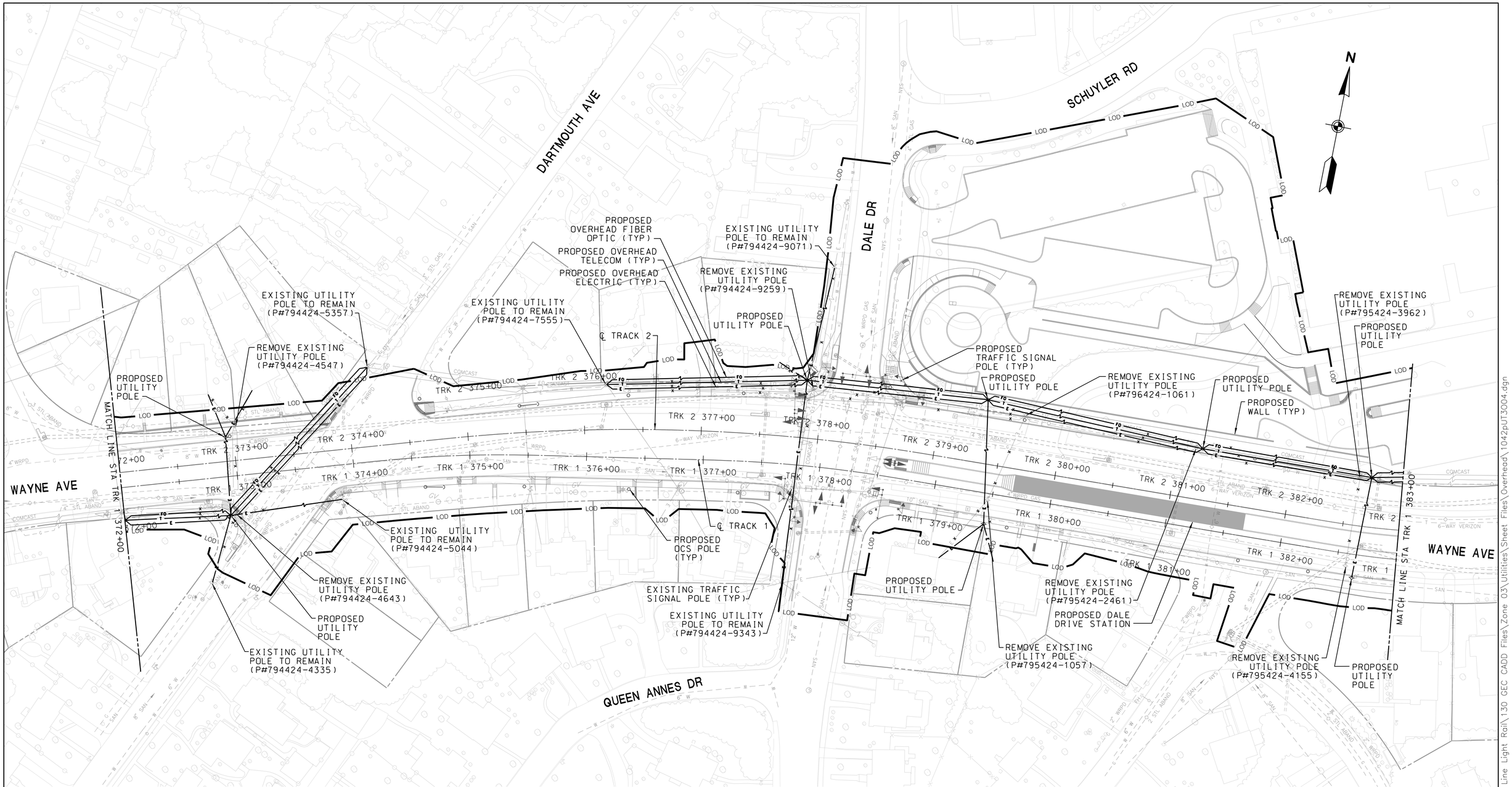
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 364+00 TO STA TRK 1 372+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-108
SHEET NO. 115 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Overhead\1042pUT3003.dgn
12/11/2013



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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 372+00 TO STA TRK 1 383+00

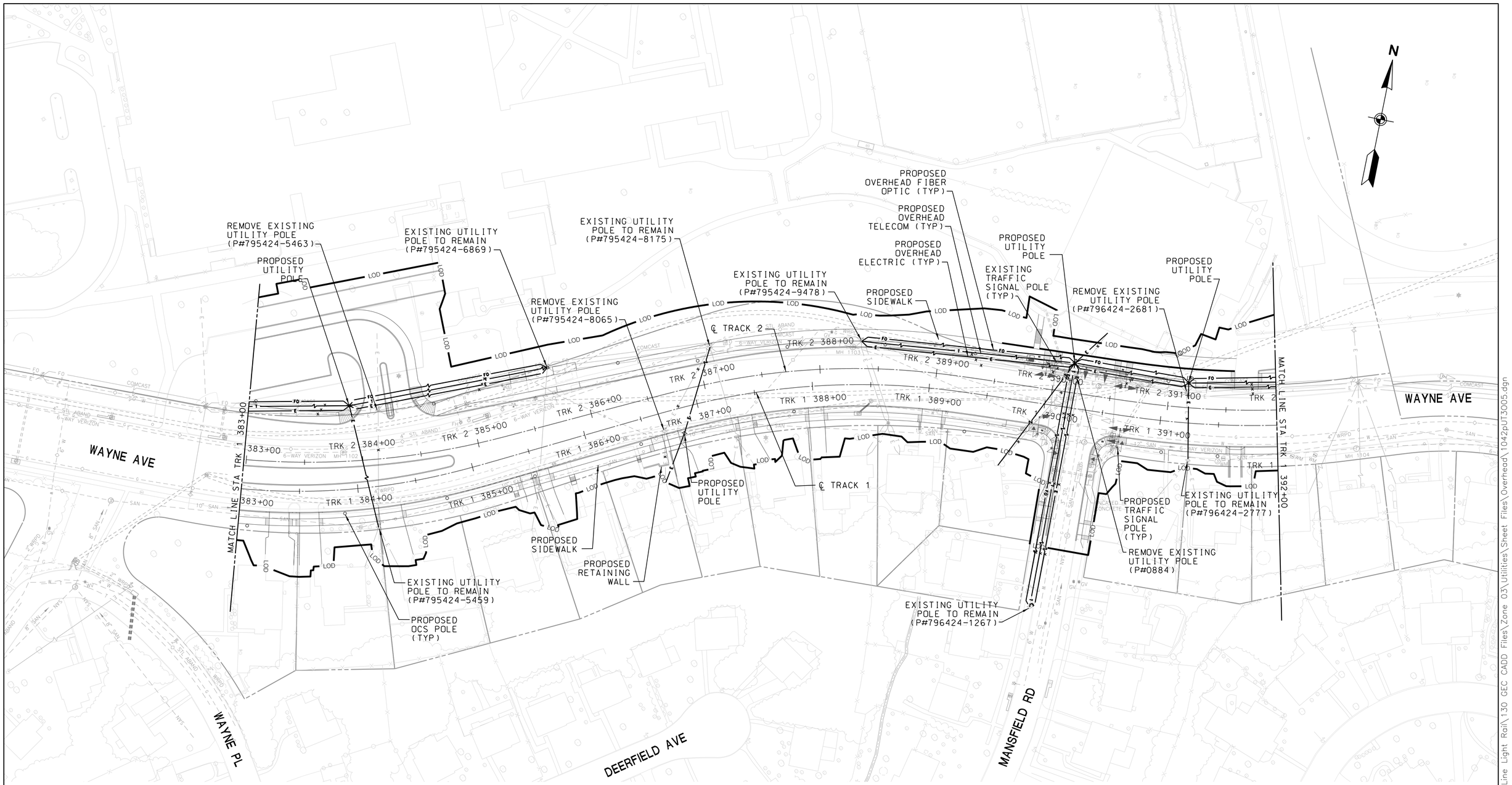
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-109

SHEET NO. 116 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Overhead\1042pUT3004.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

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DESGN
DRAWN
CHECK
APPR

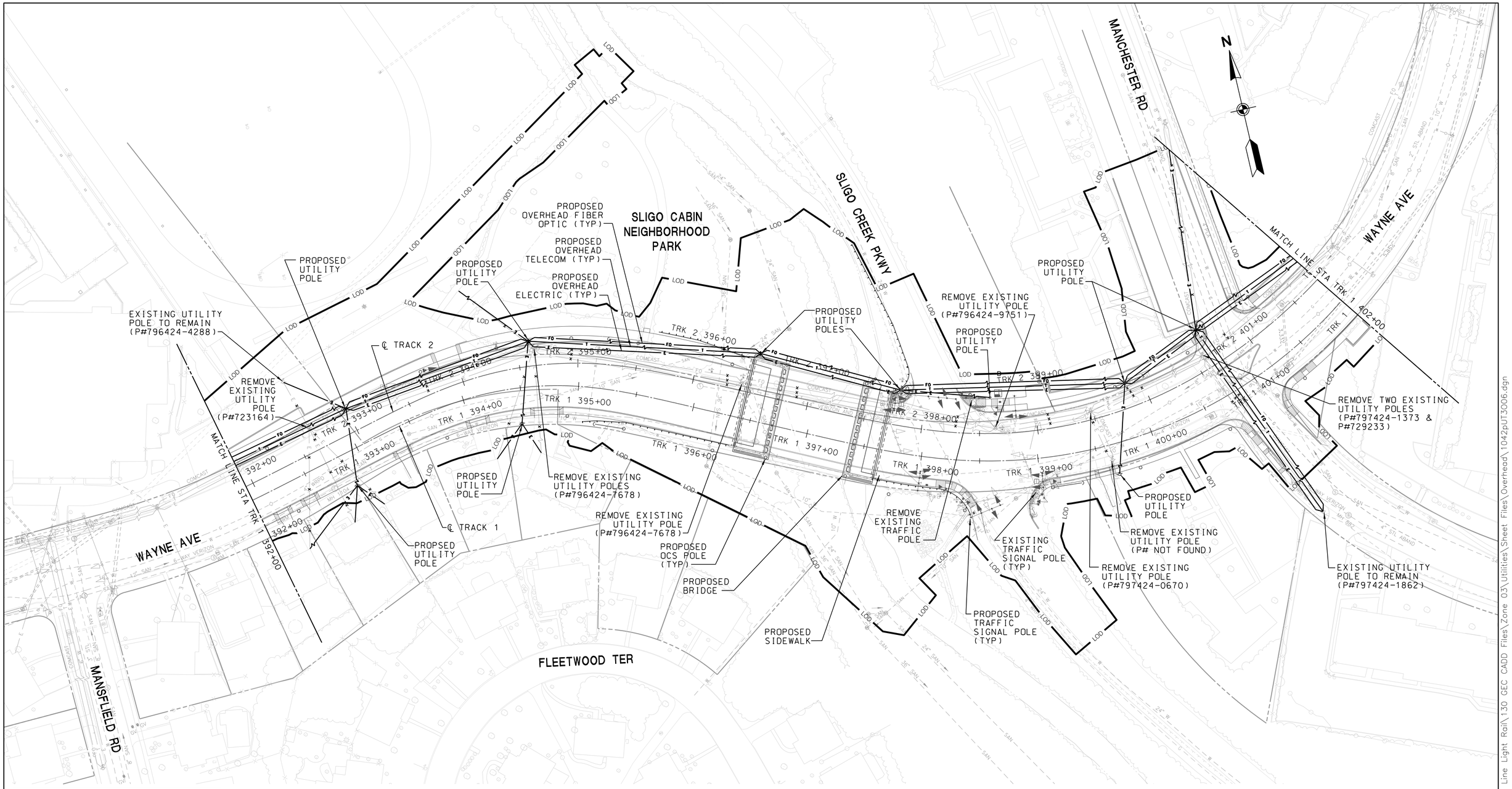
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 383+00 TO STA TRK 1 392+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-110
SHEET NO. 117 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Overhead\1042pUT3005.dgn
12/19/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1″=40′

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 392+00 TO STA TRK 1 402+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-111
SHEET NO. 118 OF 259

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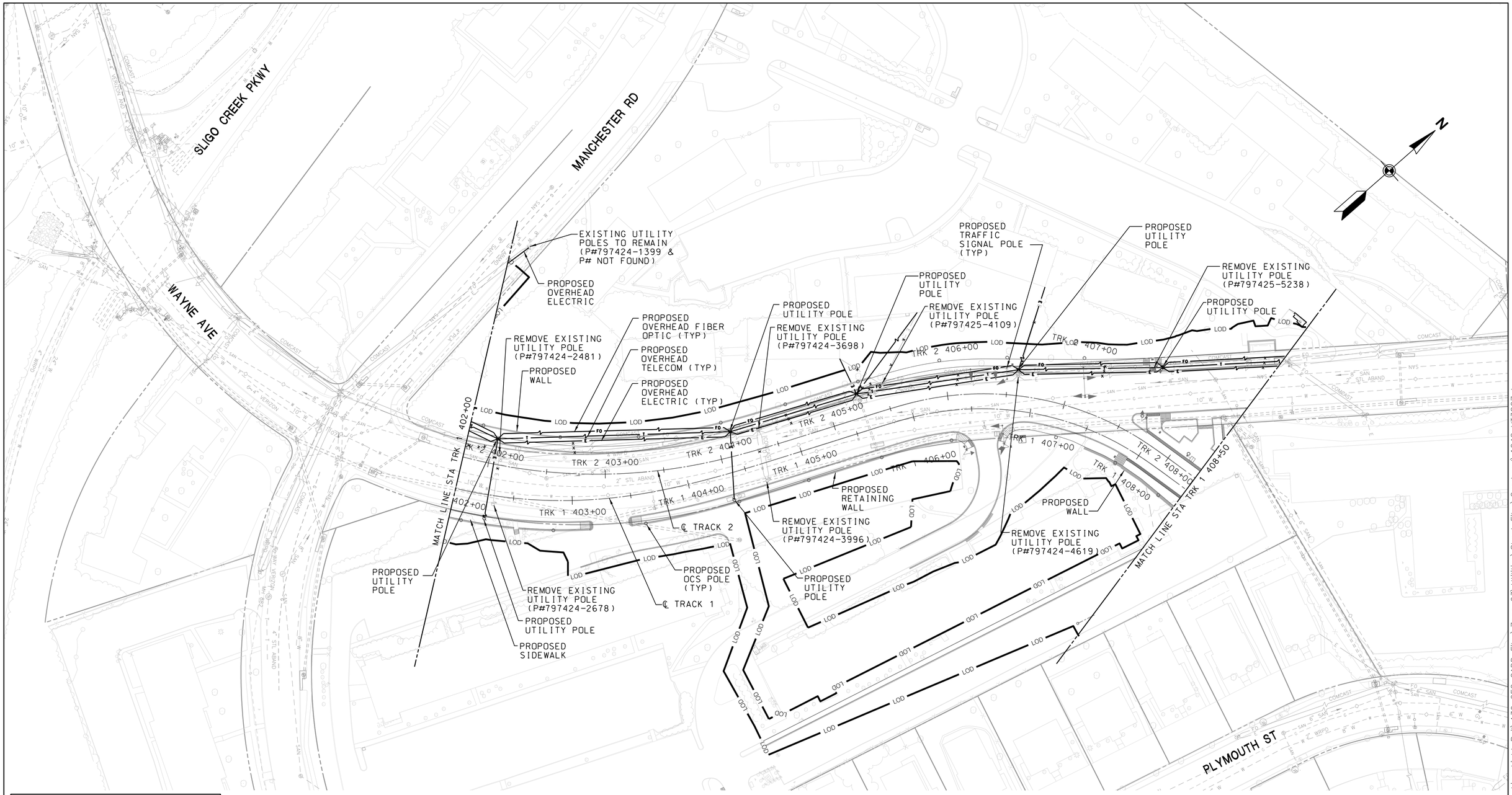
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 402+00 TO STA TRK 1 408+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-112

SHEET NO. 119 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Overhead\1042pUT3007.dgn

12/11/2013

EXISTING UTILITY POLE TO REMAIN (P#797425-7654)

WAYNE AVE

PROPOSED UTILITY POLE

EXISTING UTILITY POLE TO REMAIN

REMOVE EXISTING UTILITY POLE (P#797425-6036)

PROPOSED MANCHESTER STATION

MATCH LINE STA TRK 1 408+50

TRK 2 409+00

TRK 2 410+00

TRK 2 411+00

TRK 1 409+00

TRK 1 410+00

TRK 1 411+00

℄ TRACK 2

℄ TRACK 1

TRK 2 412+00

TRK 2 413+00

TRK 2 414+00

TRK 2 415+00

TRK 2 416+00

TRK 2

TRK 1 412+00

TRK 1 413+00

TRK 1 414+00

TRK 1 415+00

TRK 1 416+00

TRK 1

PROPOSED TUNNEL

BRADFORD RD

FLOWER AVE

PLYMOUTH ST

MATCH LINE STA TRK 1 417+00

PLYMOUTH ST

READING RD

MONITORING WELL

N

LOD

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1″=40′

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MARYLAND TRANSIT ADMINISTRATION

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DESGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 408+50 TO STA TRK 1 417+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. UT–113

SHEET NO. 120 OF 259

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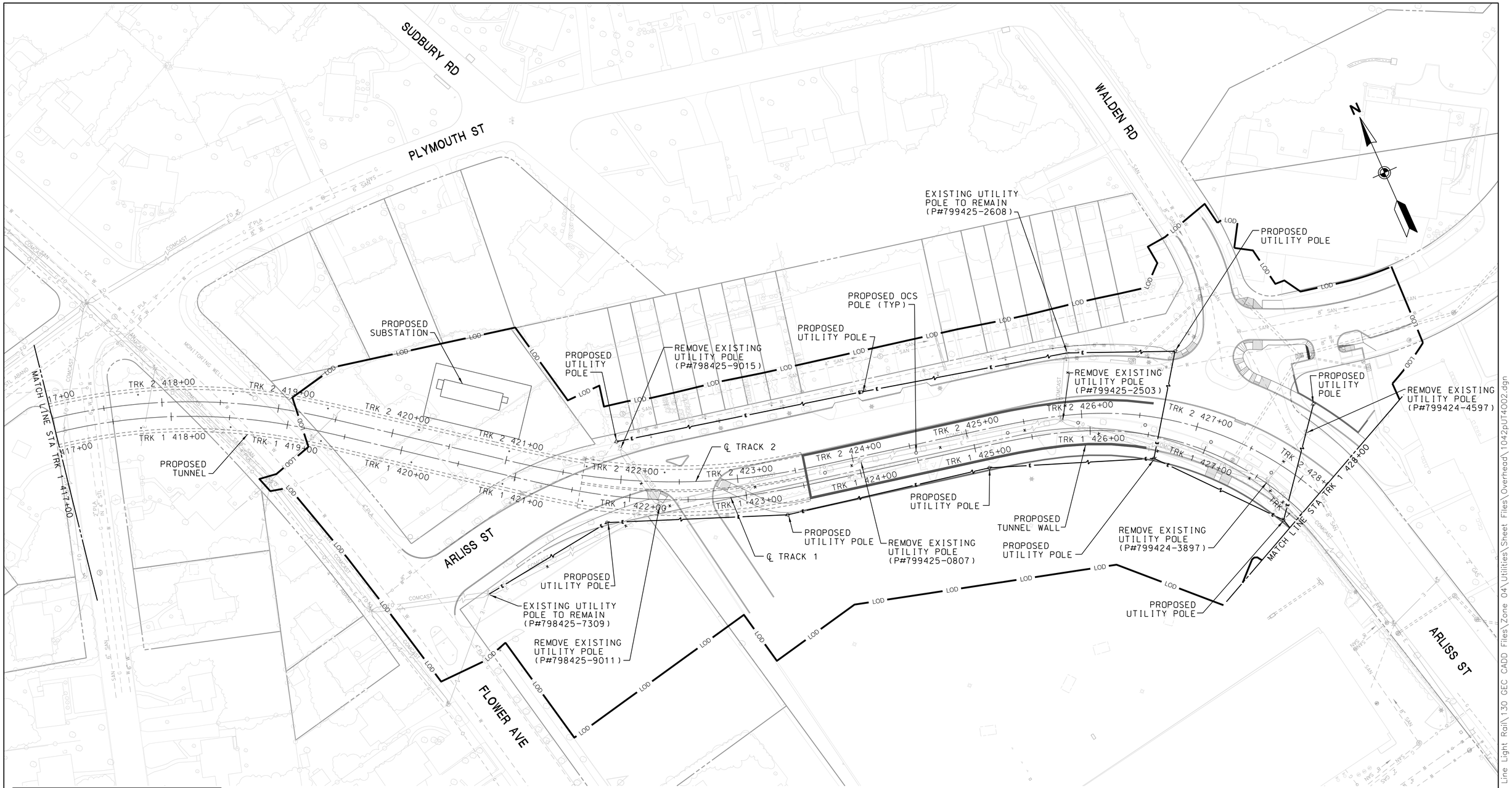
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 417+00 TO STA TRK 1 428+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. UT–114

SHEET NO. 121 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 04\Utilities\Sheet Files\Overhead\1042pUT4002.dgn
12/11/2013

GARLAND AVE

ARLISS ST

PINEY BRANCH RD

N

MATCH LINE STA TRK 1 428+00

MATCH LINE STA TRK 1 436+00

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#799424-5175)

PROPOSED SIDEWALK

PROPOSED RETAINING WALL (TYP)

PROPOSED OCS POLE (TYP)

℄ TRACK 2

℄ TRACK 1

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#799424-5840)

EXISTING UTILITY POLE TO REMAIN (P#7027)

PROPOSED UTILITY POLE

EXISTING UTILITY POLES TO REMAIN (P#799424-7012 & P#799424-7110)

REMOVE EXISTING UTILITY POLE (P#799424-6916)

EXISTING TRAFFIC SIGNAL POLE (TYP)

REMOVE EXISTING UTILITY POLES (P#799424-7026 & P#799424-5726)

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLES (P#799424-4017 & P#799424-4017)

EXISTING UTILITY POLE TO REMAIN (P#799424-3717)

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#799424-4674)

PROPOSED SIDEWALK

REMOVE EXISTING UTILITY POLE (P#799424-5057)

PROPOSED LONG BRANCH STATION

PROPOSED UTILITY POLE

PROPOSED RETAINING WALL (TYP)

PROPOSED UTILITY POLE

PROPOSED TRAFFIC SIGNAL POLE (TYP)

REMOVE EXISTING UTILITY POLE (P#799424-5439)

EXISTING TRAFFIC POLE TO REMAIN

PROPOSED OVERHEAD ELECTRIC (TYP)

PROPOSED OVERHEAD TELECOM (TYP)

PROPOSED OVERHEAD FIBER OPTIC (TYP)

TRK 2 429+00 TRK 2 430+00 TRK 2 431+00 TRK 2 432+00 TRK 2 433+00 TRK 2 434+00 TRK 2 435+00

TRK 1 428+00 TRK 1 429+00 TRK 1 430+00 TRK 1 431+00 TRK 1 432+00 TRK 1 433+00 TRK 1 434+00 TRK 1 435+00

LOD

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

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MARYLAND TRANSIT ADMINISTRATION MTA Maryland

Gannett Fleming WR&A

JACOBS

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS STA TRK 1 428+00 TO STA TRK 1 436+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-115

SHEET NO. 122 OF 259

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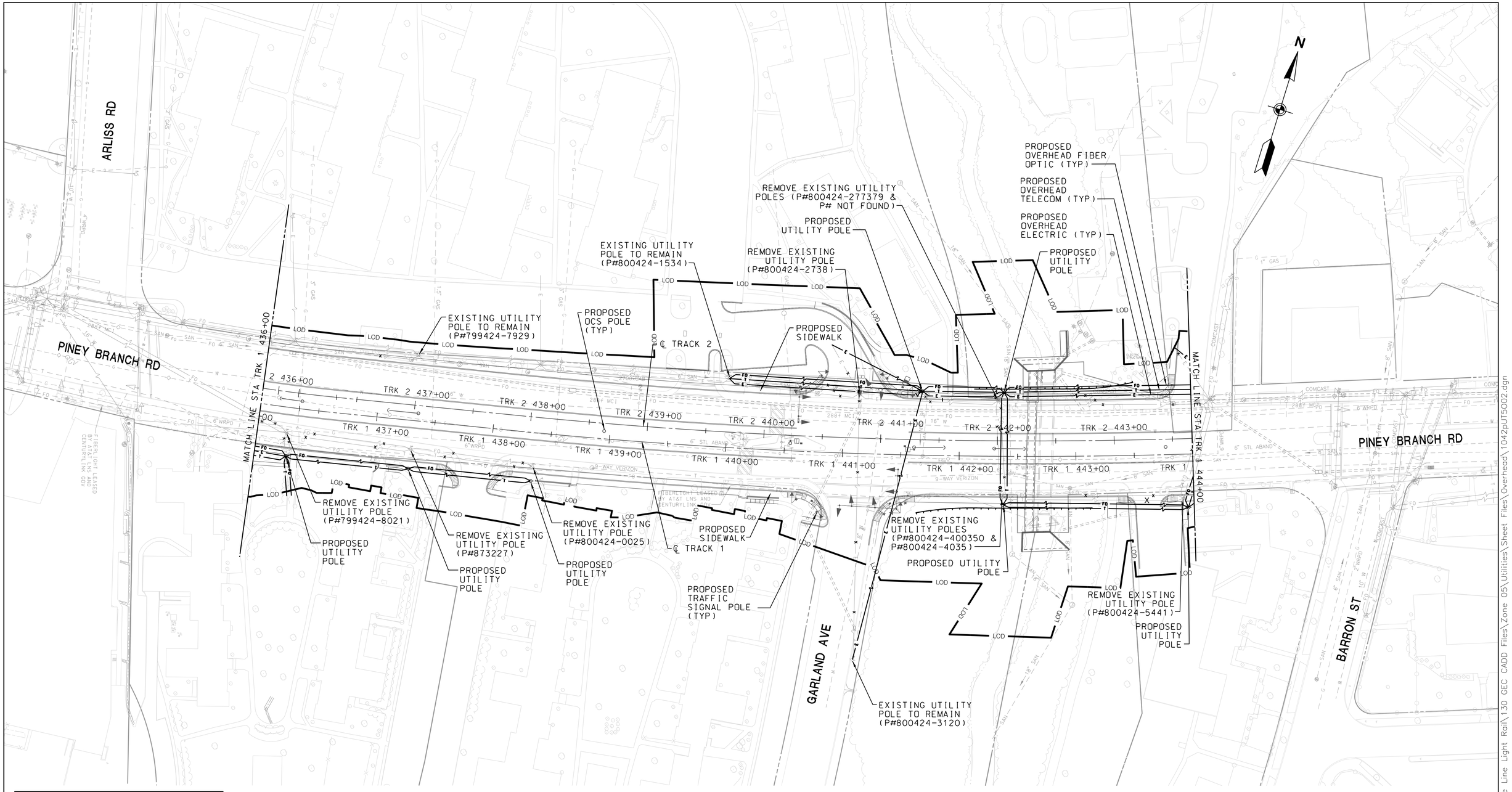
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′
SCALE: 1"=40′

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 436+00 TO STA TRK 1 444+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-116
SHEET NO. 123 OF 259

pw:\\100 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Overhead\1042pUT5002.dgn
12/11/2013

EXISTING UTILITY POLE TO REMAIN (P#800424-380410)

PROPOSED UTILITY POLE

REMOVE TWO EXISTING UTILITY POLES (P#800424-550470 & P# NOT FOUND)

REMOVE EXISTING UTILITY POLE (P#800424-7052)

PROPOSED UTILITY POLE

PROPOSED OVERHEAD FIBER OPTIC (TYP)

PROPOSED OVERHEAD TELECOM (TYP)

PROPOSED OVERHEAD ELECTRICAL (TYP)

EXISTING TRAFFIC SIGNAL POLE (TYP)

REMOVE EXISTING UTILITY POLE (P#800424-8256)

PROPOSED UTILITY POLE

℄ TRACK 2

PROPOSED OCS POLE (TYP)

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#800424-960620)

PROPOSED SIDEWALK

PROPOSED SIDEWALK

℄ TRACK 1

PROPOSED TRAFFIC SIGNAL POLE (TYP)

PROPOSED UTILITY POLE

REMOVE EXISTING UTILITY POLE (P#800424-7144)

REMOVE EXISTING UTILITY POLE (P#800424-940550)

PROPOSED UTILITY POLE

PROPOSED WALL (TYP)

REMOVE EXISTING UTILITY POLE (P#801424-080600)

EXISTING UTILITY POLE TO REMAIN (P#800424-7337)

GLENVILLE RD

UNIVERSITY BLVD

PINEY BRANCH RD

PINEY BRANCH RD

BARRON ST

GILBERT PL

MATCH LINE STA TRK 1 444+00

MATCH LINE STA TRK 1 449+00

TRK 2 444+00 TRK 2 445+00 TRK 2 446+00 TRK 2 447+00 TRK 2 448+00

TRK 1 444+00 TRK 1 445+00 TRK 1 446+00 TRK 1 447+00 TRK 1 448+00

LOD

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

JACOBS

PROFESSIONAL CERTIFICATION

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DESIGN

DRAWN

CHECK

APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS STA TRK 1 444+00 TO STA TRK 1 449+00

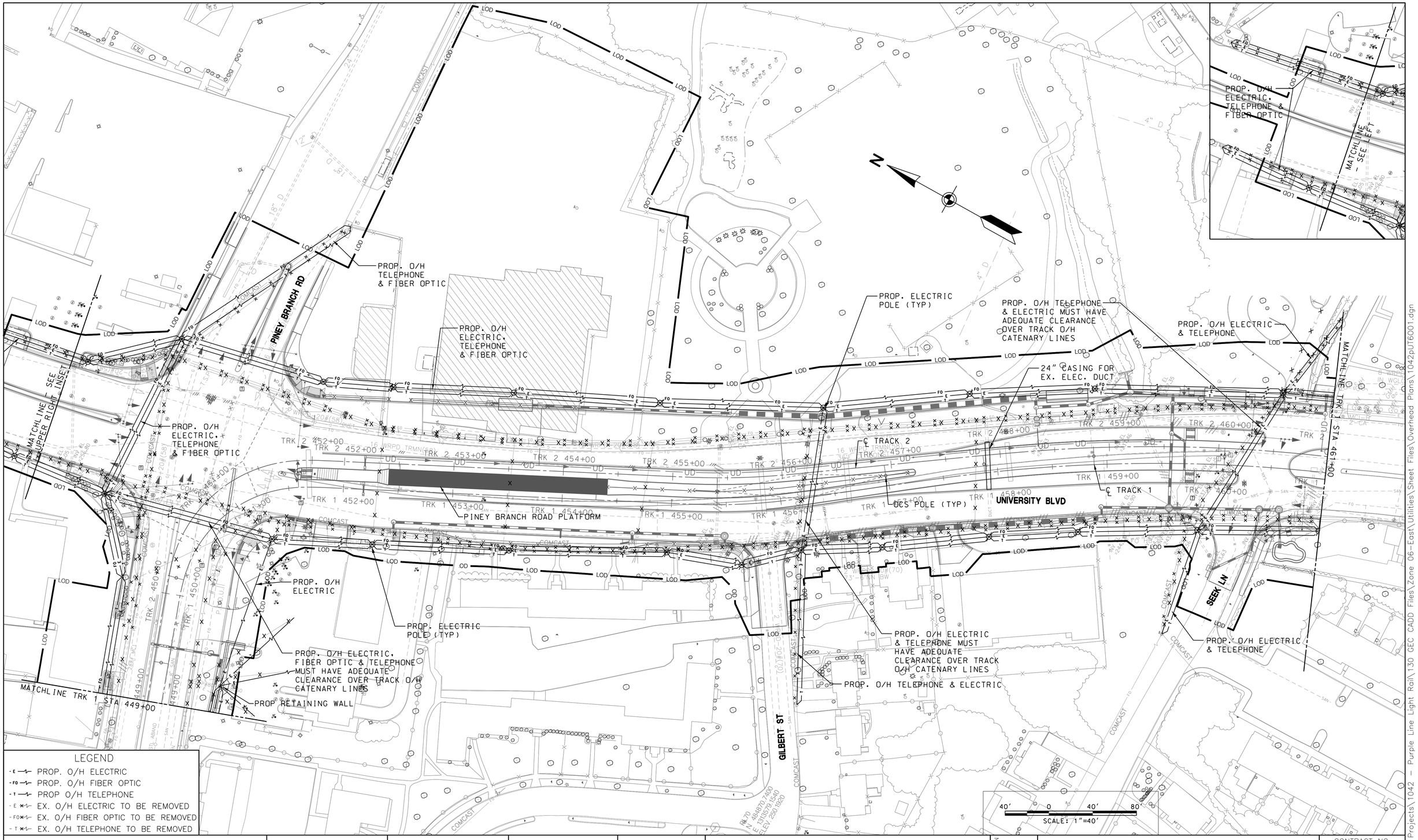
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. UT-117

SHEET NO. 124 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Overhead\1042pUT5003.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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Gannett Fleming — WR&A

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DESIGN
DRAWN
CHECK
APPR

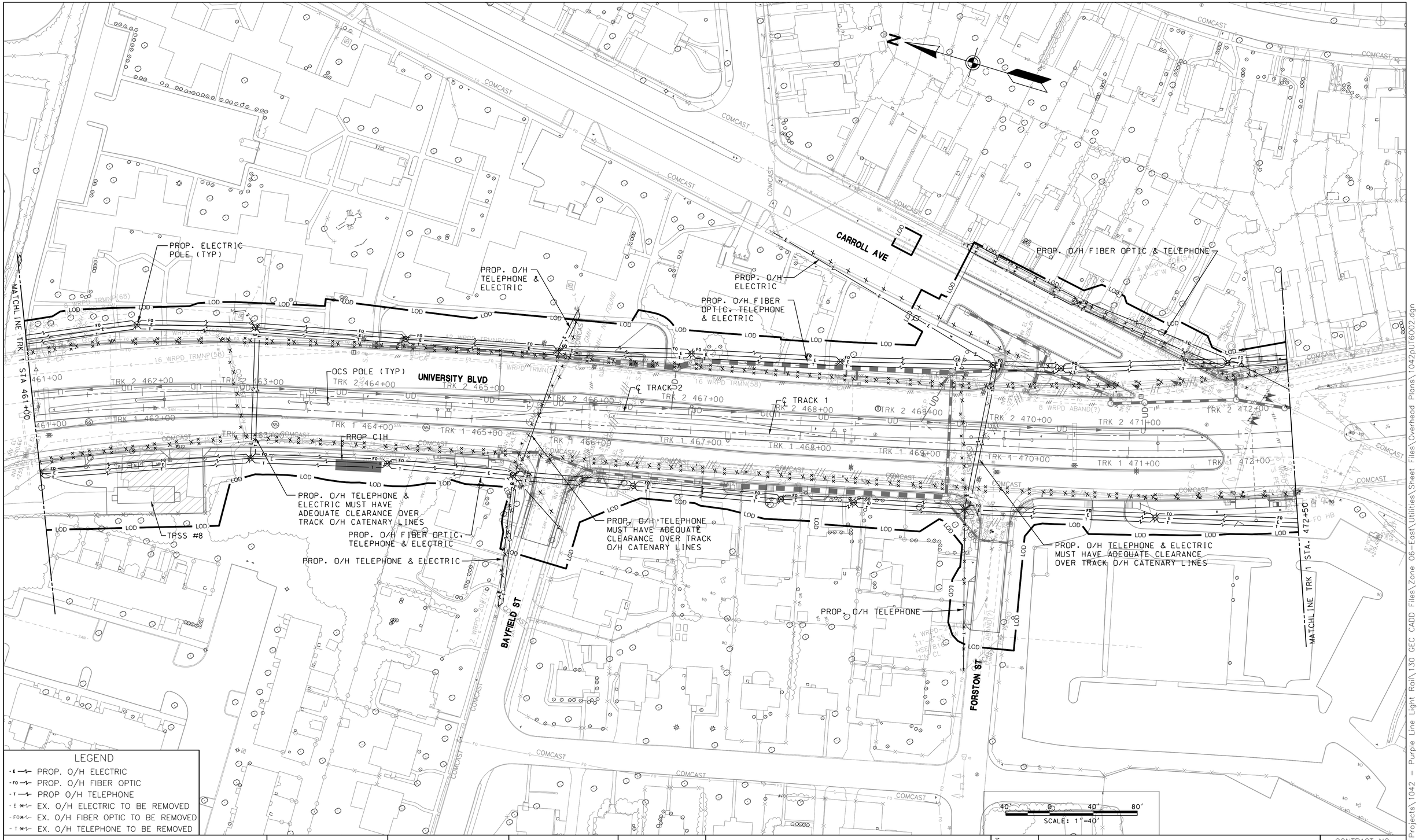
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 449+00 TO STA TRK 1 461+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-118
SHEET NO. 125 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Overhead Plans\1042pUT6001.dgn
12/11/2013



LEGEND

- E — PROP. O/H ELECTRIC
- FO — PROP. O/H FIBER OPTIC
- T — PROP O/H TELEPHONE
- E — EX. O/H ELECTRIC TO BE REMOVED
- FO — EX. O/H FIBER OPTIC TO BE REMOVED
- T — EX. O/H TELEPHONE TO BE REMOVED

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DESIGN
DRAWN
CHECK
APPR

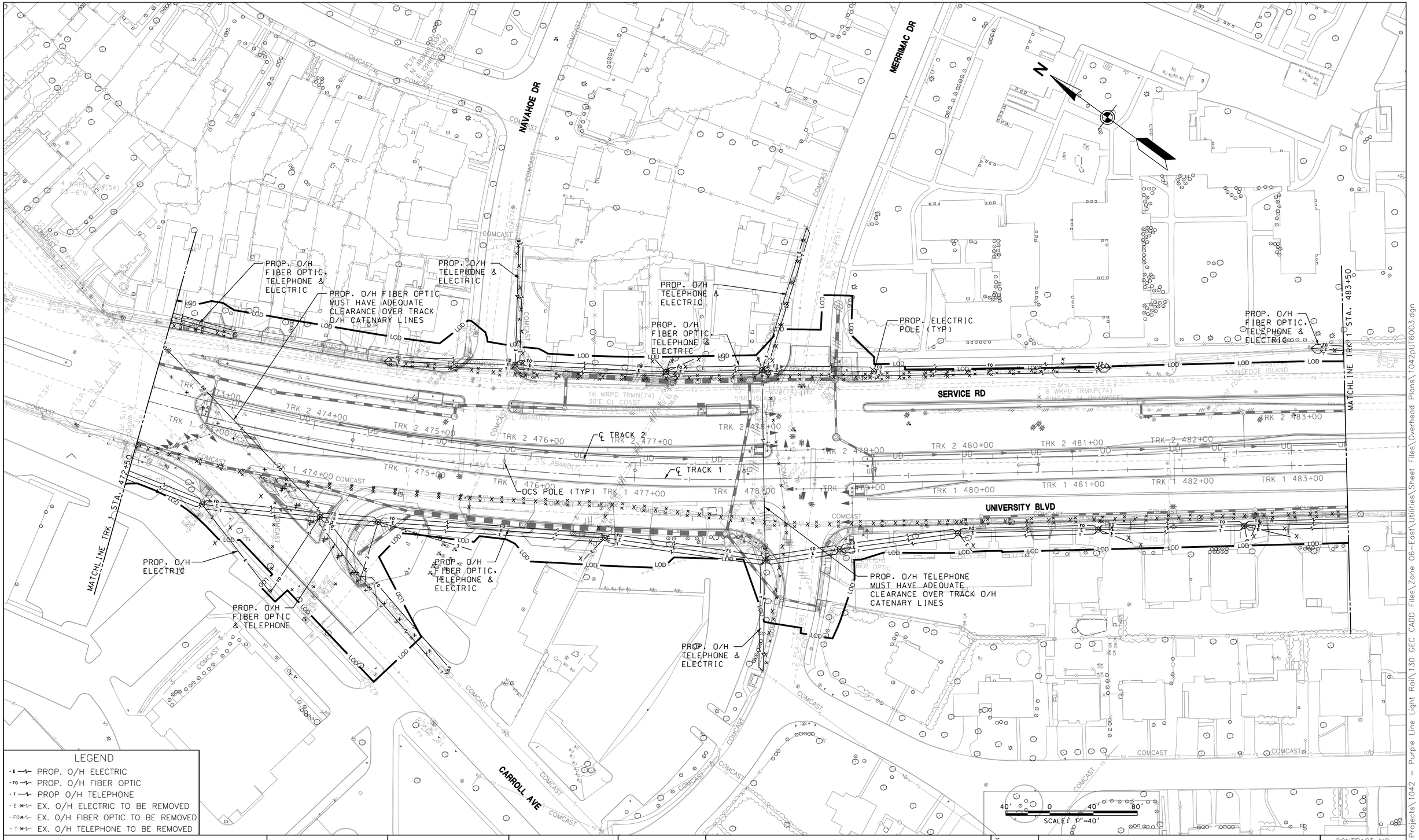
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 461+00 TO STA TRK 1 472+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-119
SHEET NO. 126 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Overhead Plans\1042pulf6002.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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DESIGN | DRAWN | CHECK | APPR

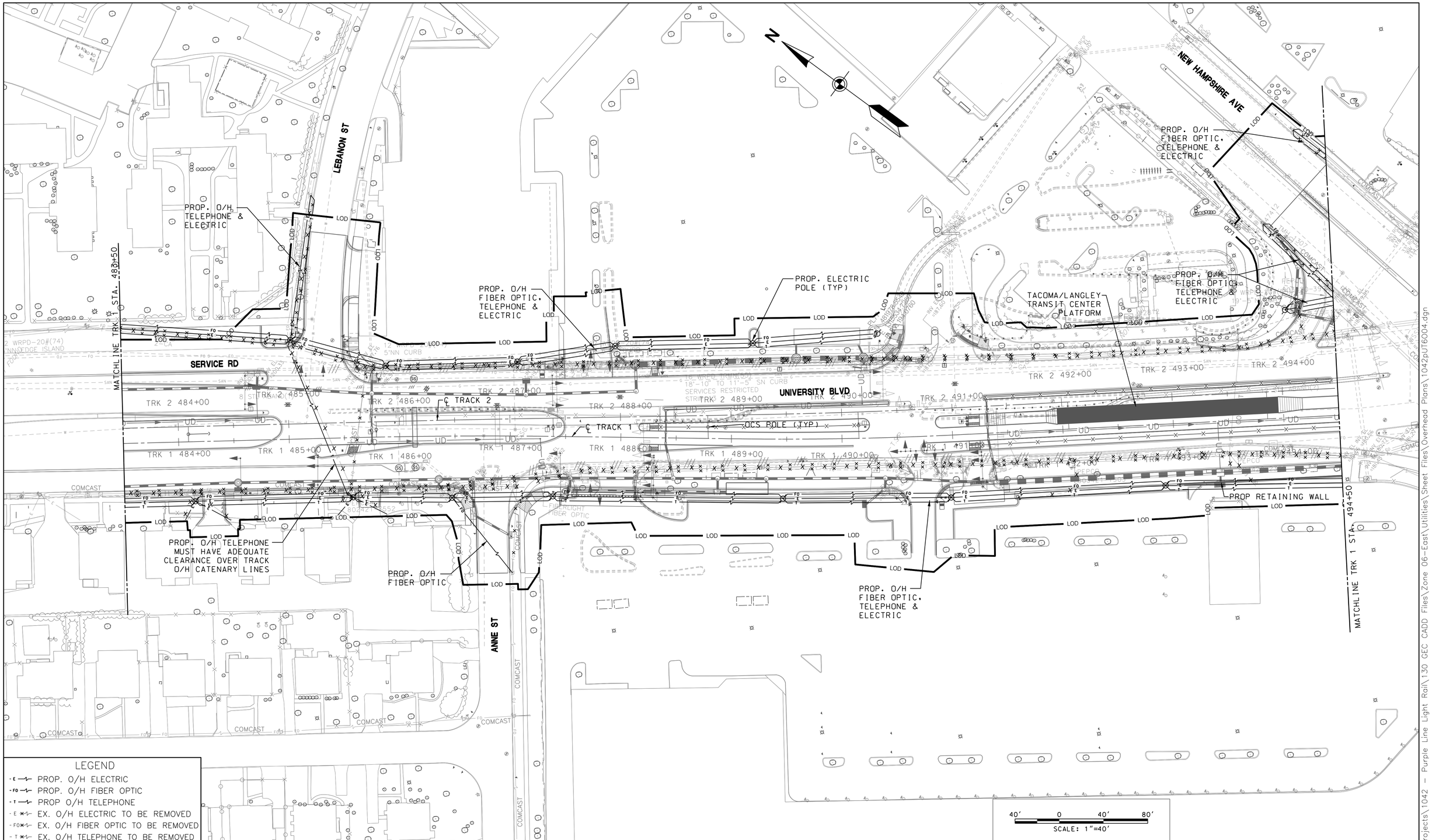
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 472+50 TO STA TRK 1 483+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-120
SHEET NO. 127 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Overhead Plans\1042put6003.dgn
12/11/2013



LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS
STA TRK 1 483+50 TO STA TRK 1 494+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-121
SHEET NO. 128 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Overhead Plans\1042pUT6004.dgn
12/11/2013

PROP. O/H FIBER OPTIC, TELEPHONE & ELECTRIC

PROP. ELECTRIC POLE (TYP)

PROP. O/H FIBER OPTIC, TELEPHONE & ELECTRIC

TPSS #9

PROP. O/H FIBER OPTIC, TELEPHONE & ELECTRIC

EDWARDS PL

UNIVERSITY BLVD

C TRACK 2

C TRACK 1

OCS POLE (TYP)

PROP RETAINING WALL

MATCHLINE TRK 1 STA. 494+50

PROP. O/H FIBER OPTIC & ELECTRIC

NEW HAMPSHIRE AVE

PROP. O/H ELECTRIC

PROP. O/H FIBER OPTIC & TELEPHONE

PROP. O/H FIBER OPTIC, TELEPHONE & ELECTRIC MUST HAVE ADEQUATE CLEARANCE OVER TRACK O/H CATENARY LINES

PROP. O/H ELECTRIC

PROP. O/H FIBER OPTIC, TELEPHONE & ELECTRIC

PROP. O/H FIBER OPTIC, TELEPHONE & ELECTRIC

MATCHLINE TRK 1 STA. 505+50

LEGEND

- PROP. O/H ELECTRIC
- PROP. O/H FIBER OPTIC
- PROP O/H TELEPHONE
- EX. O/H ELECTRIC TO BE REMOVED
- EX. O/H FIBER OPTIC TO BE REMOVED
- EX. O/H TELEPHONE TO BE REMOVED

40′ 0 40′ 80′

SCALE: 1"=40′

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

PROP OVERHEAD UTILITY RELOCATIONS

STA TRK 1 494+50 TO STA TRK 1 505+50

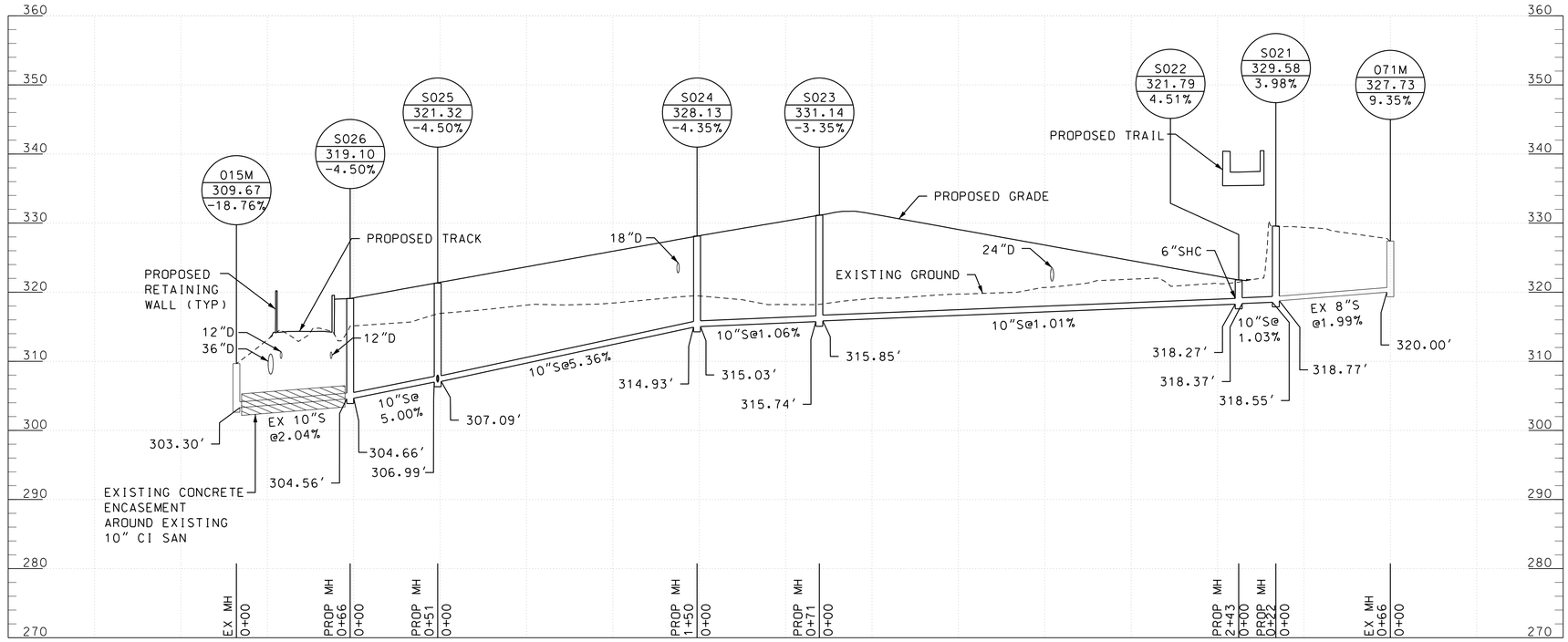
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. UT–122

SHEET NO. 129 OF 259

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 06–East\Utilities\Sheet Files\Overhead Plans\1042pUT6005.dgn 12/11/2013



RELOCATION FROM STATION
TRK 1 111+00 TO TRK 1 117+00 -
PEARL ST

RELOCATED 10" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

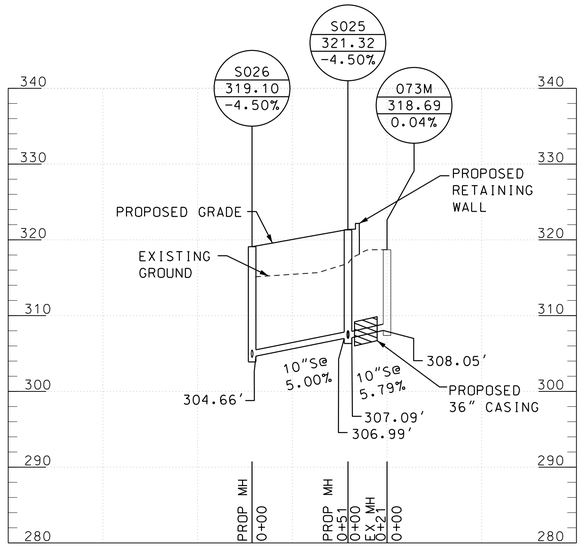
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 111+00 TO STA TRK 1 117+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-169
SHEET NO.
176 OF 259

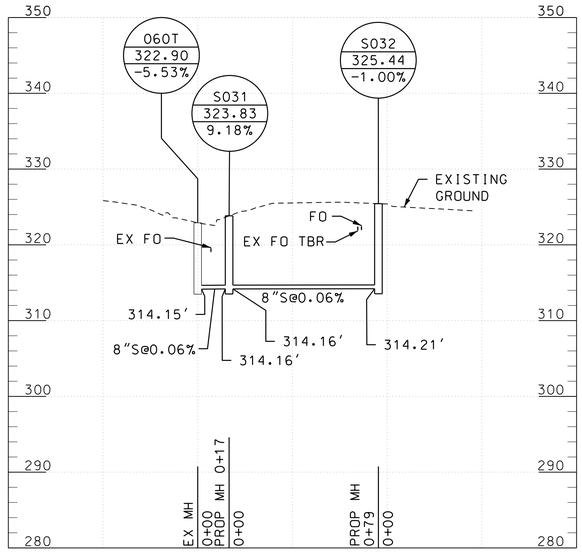
$FILE1$
$DATE$



RELOCATION NEAR STATION
TRK 1 117+25 - PEARL ST

RELOCATED 10" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION NEAR STATION
TRK 1 130+15

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 117+25 TO STA TRK 1 130+15

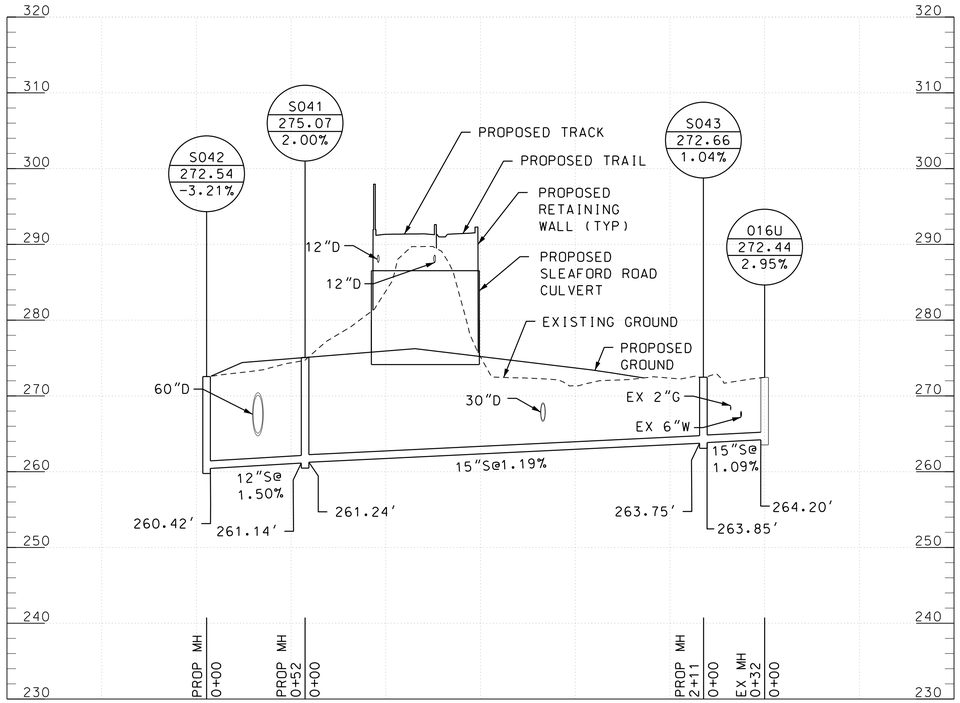
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-170

SHEET NO.
177 OF 259

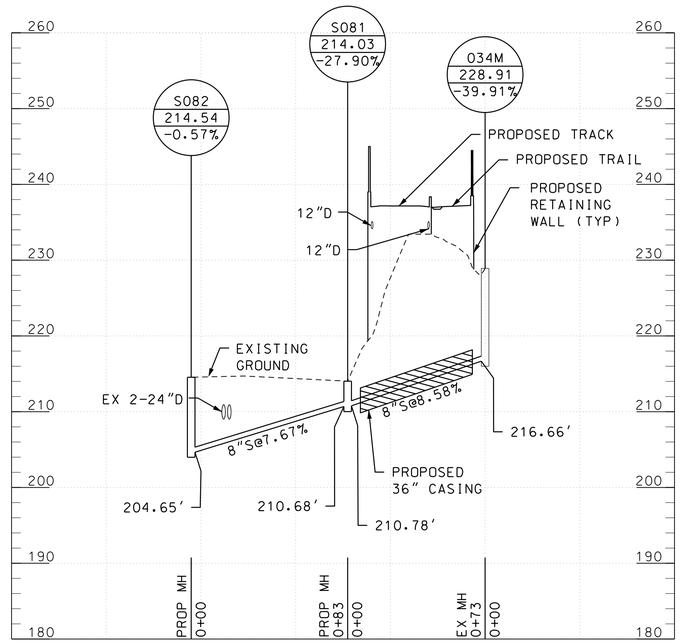
$FILE$
$DATE$



RELOCATION NEAR STATION
TRK 1 138+75 - SLEAFORD RD

RELOCATED 12" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION NEAR STATION
TRK 1 186+90

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

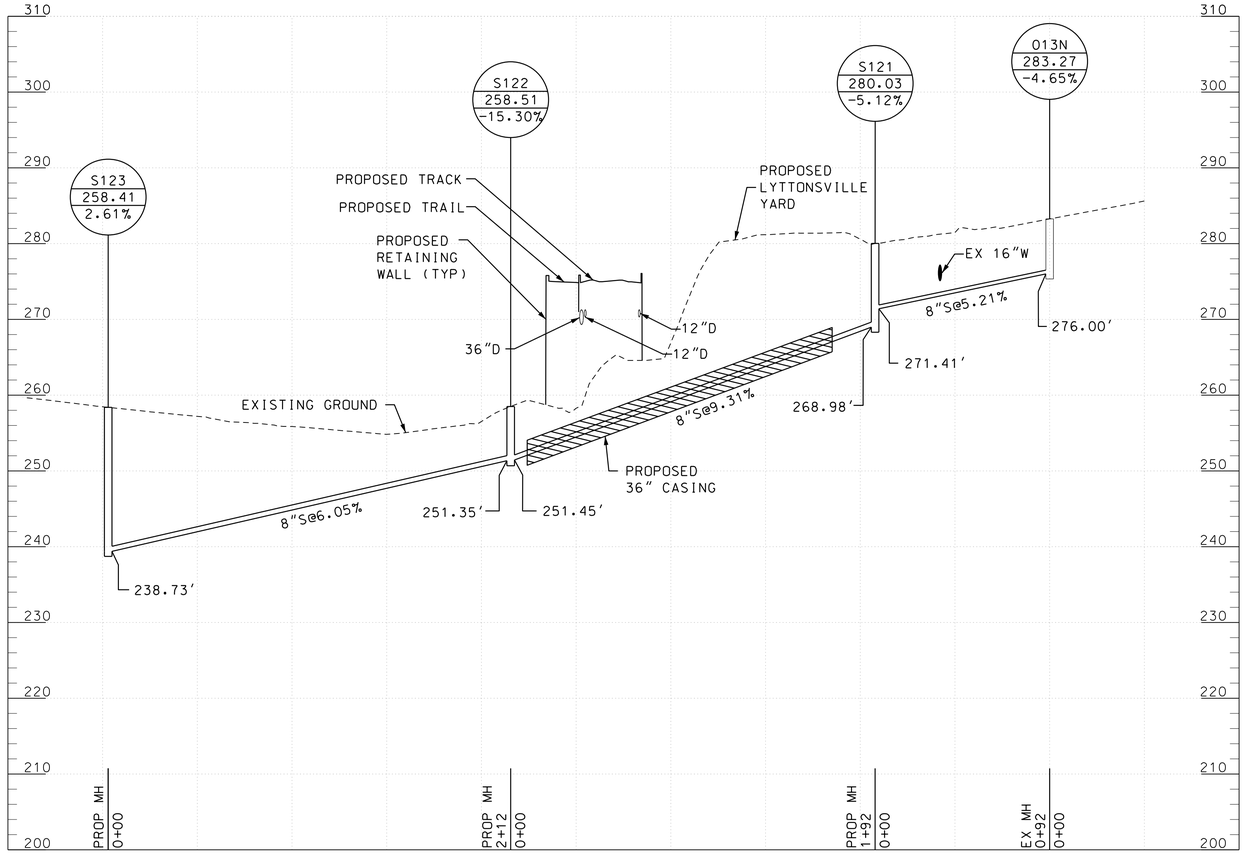
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 138+75 TO STA TRK 1 186+90

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-171
SHEET NO.
178 OF 259

$FILEL$
$DATE$



RELOCATION NEAR STATION
TRK 1 235+50 –
LYTTONSVILLE YARD

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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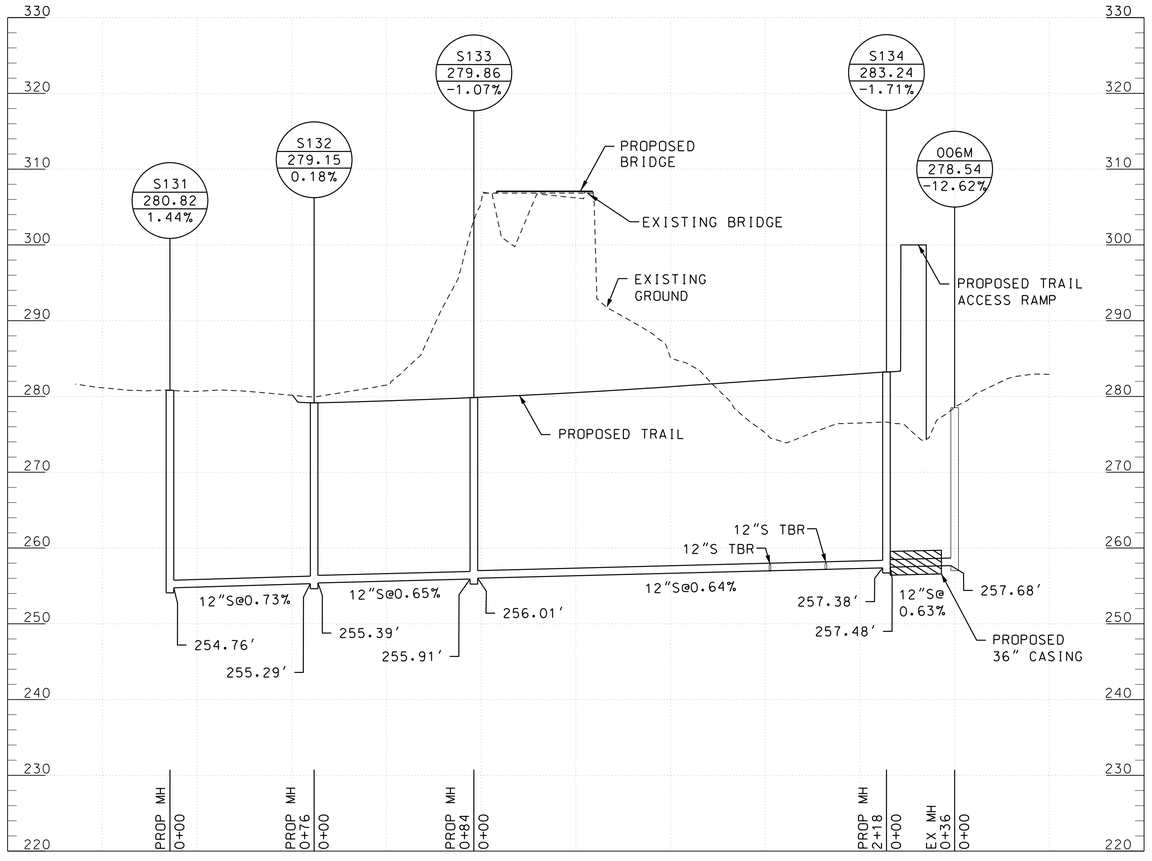
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 235+00 TO STA TRK 1 236+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-172
SHEET NO. 179 OF 259

$FILEL$
$DATE$



RELOCATION NEAR STATION
TRK 1 244+00 TO TRK 1 247+00 -
LYTTONSVILLE PLACE

RELOCATED 12" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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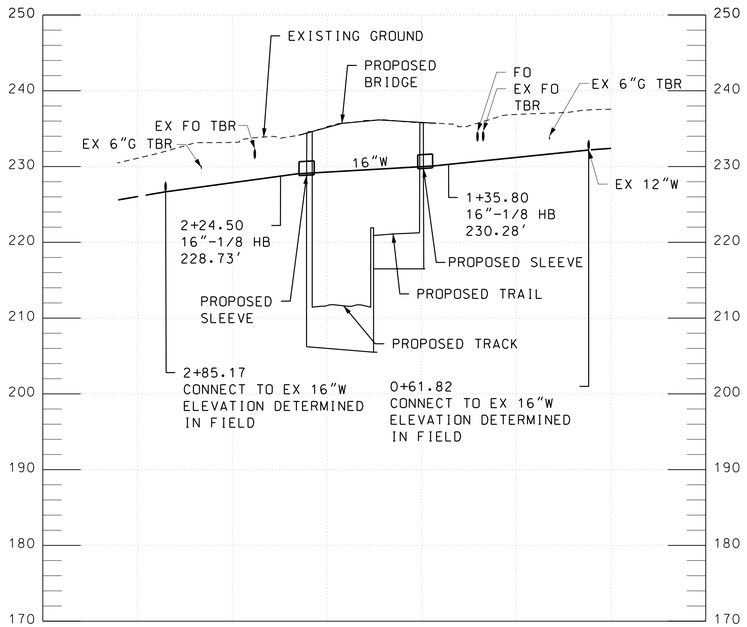
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 244+00 TO STA TRK 1 247+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-173
SHEET NO.
180 OF 259

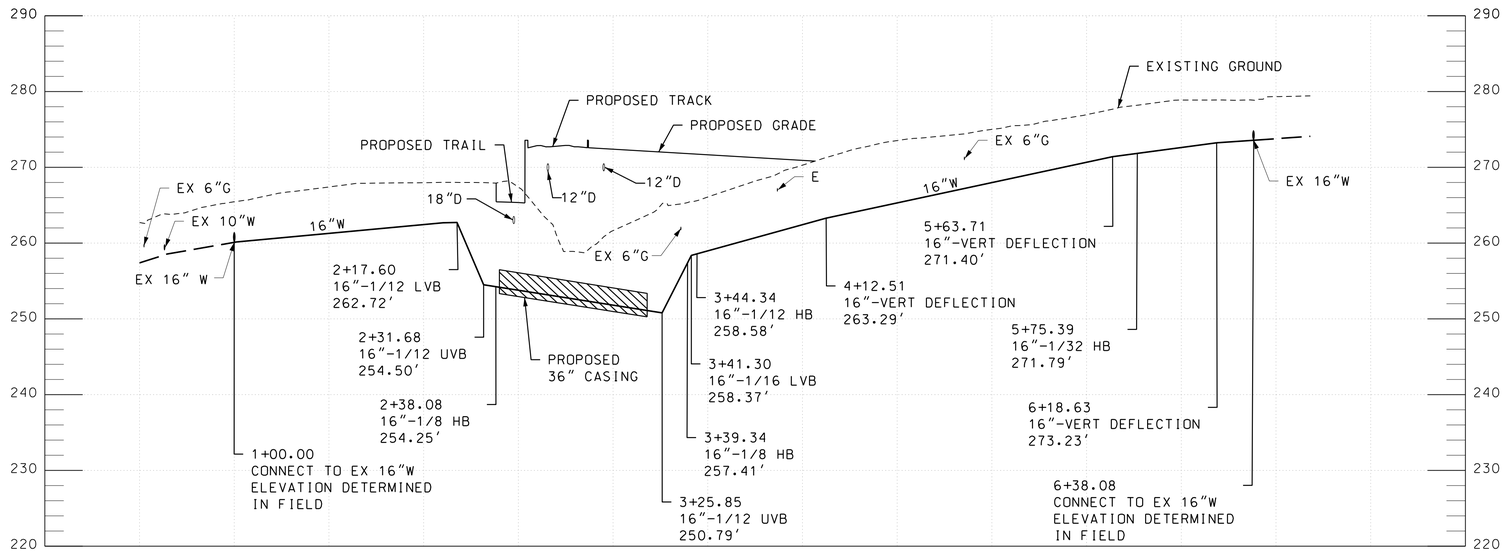
$FILEL$
$DATE$



RELOCATION NEAR STATION
TRK 1 206+60 - JONES MILL RD

RELOCATED 16" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION NEAR STATION
TRK 1 230+25 TO TRK 1 234+50 -
LYTTONSVILLE YARD

RELOCATED 16" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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DESGN
DRAWN
CHECK
APPR

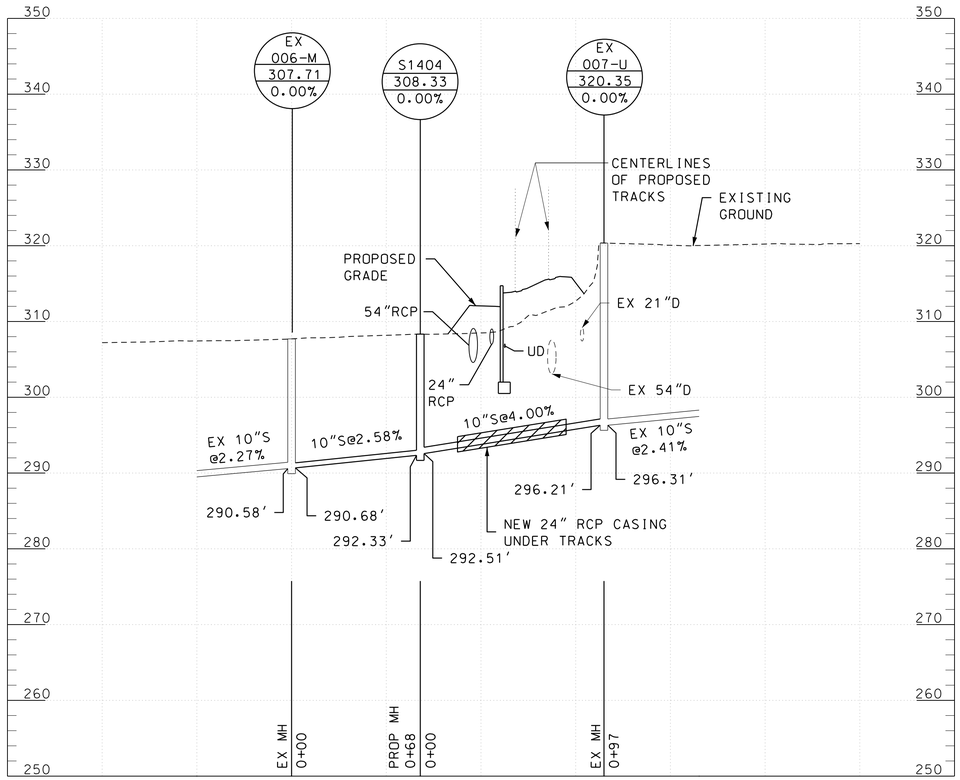
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 206+00 TO STA TRK 1 235+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-174
SHEET NO.
181 OF 259

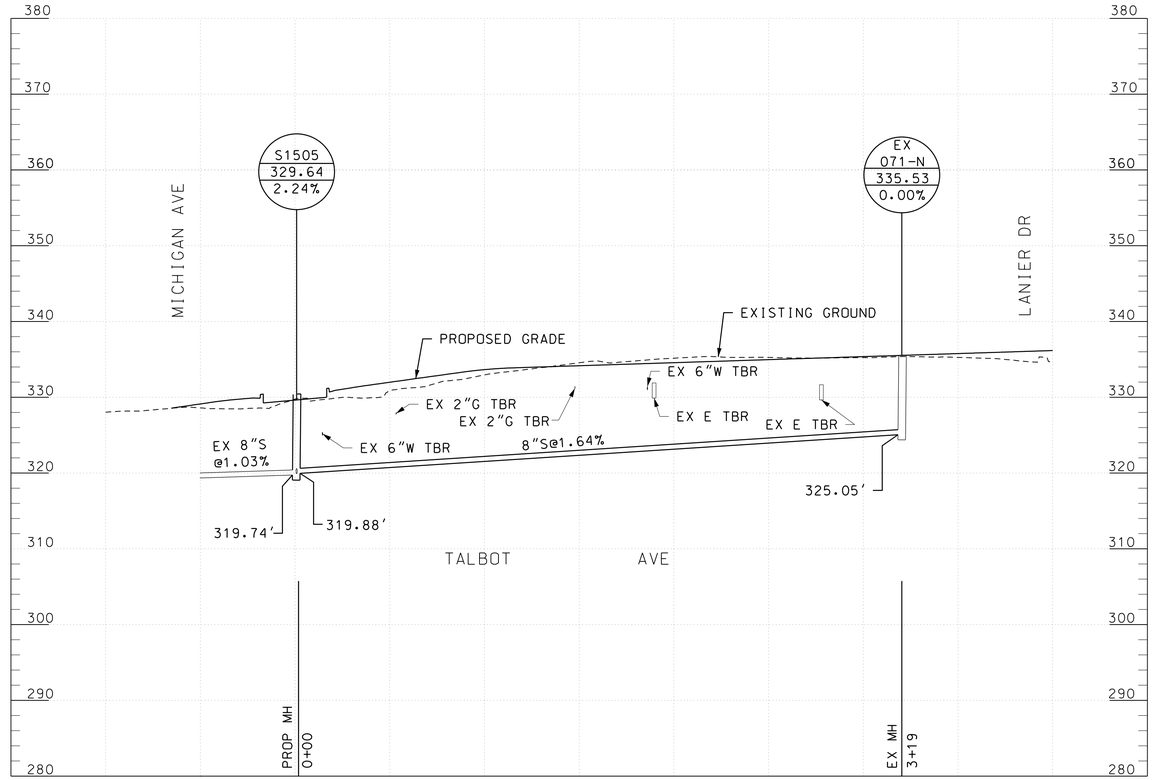
$FILE$
$DATE$



RELOCATION STA 264+00 TRK 1
CROSSING

RELOCATED 10" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'



RELOCATION STA 270+57 TRK 1 RT
TO STA 273+76 TRK 1 RT

RELOCATED 8" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

STV
STV Incorporated

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License No. Expiration Date

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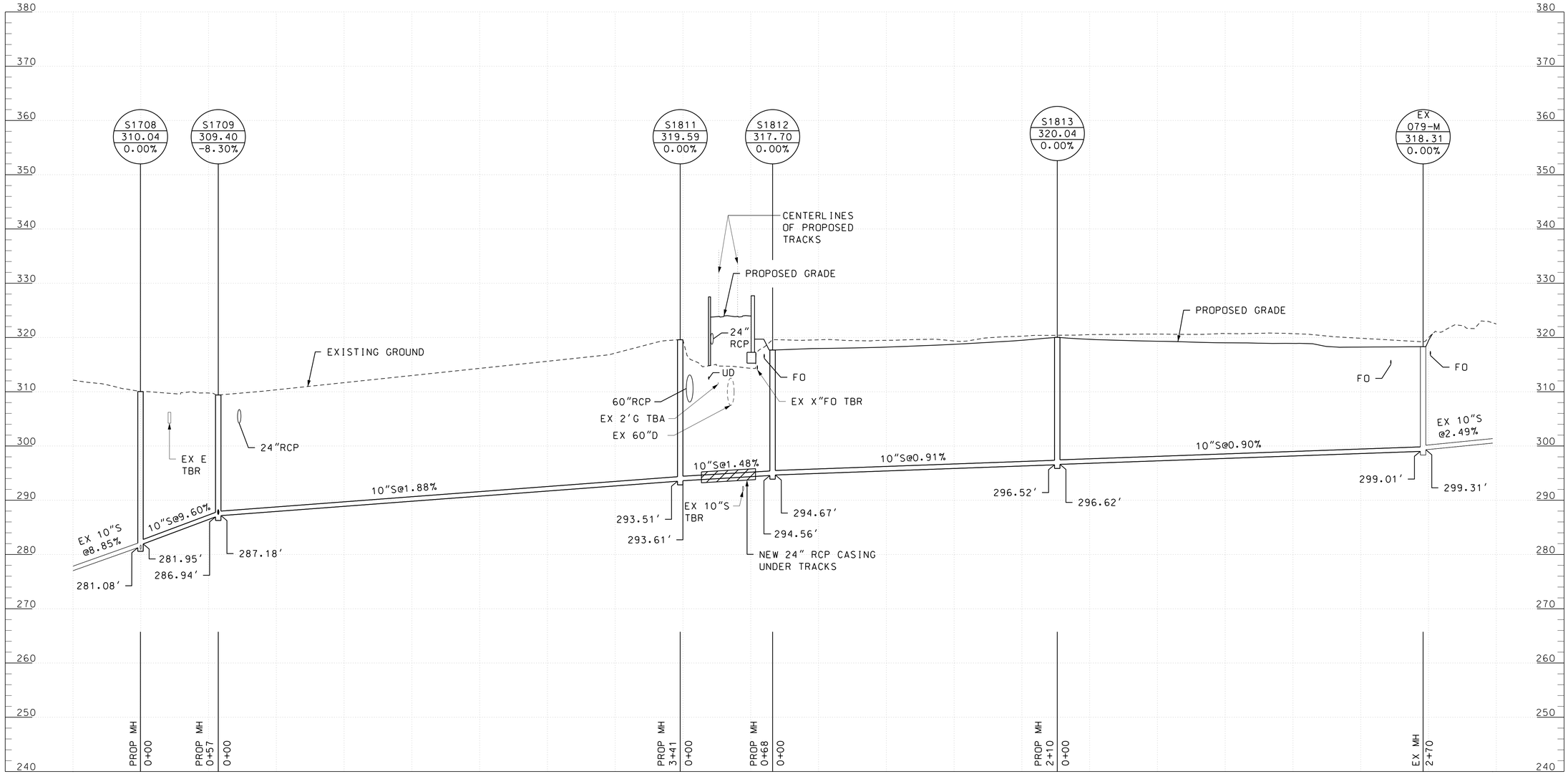
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 264+00 TO STA TRK 1 273+76
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-175
SHEET NO. 182 OF 259

c:\pwworking\mtapw\jf-brenda duong\d0114554\1042pUT2201.dgn
12/18/2013



RELOCATION STA 301+40 TRK 1 RT
TO STA 310+08 TRK 2 LT

RELOCATED 10" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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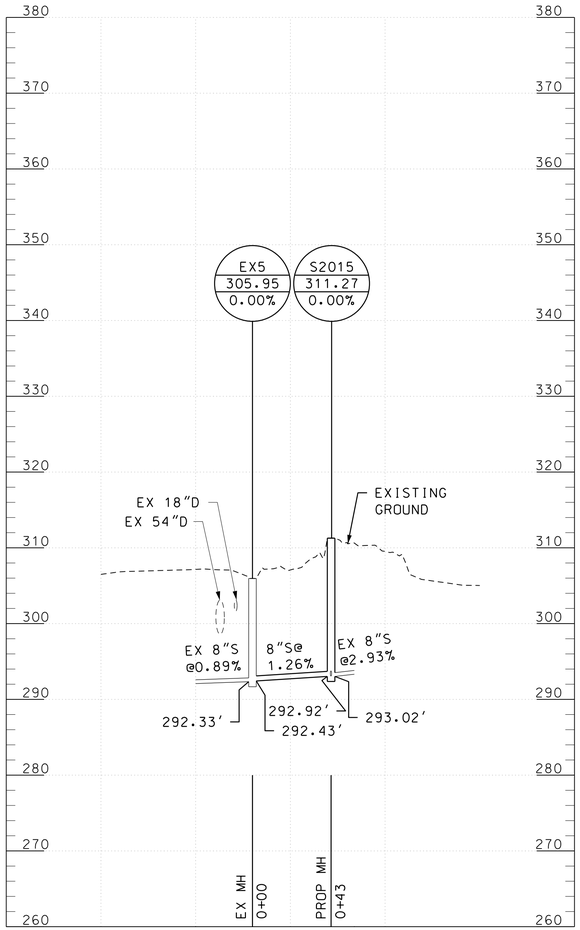
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 301+40 TO STA TRK 1 310+08
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-176
SHEET NO.
183 OF 259

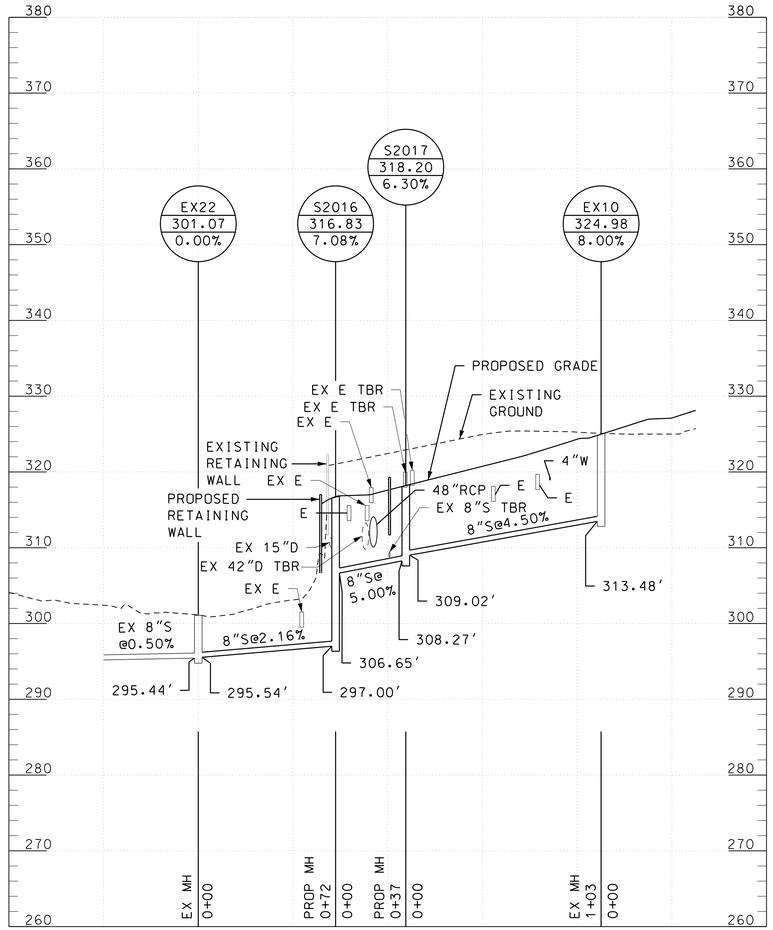
c:\pwworking\mtapw\e-brenda duong\d0114554\1042pUT2201.dgn
12/18/2013



RELOCATION SILVER SPRING TRANSIT CENTER
STA 328+15 TO STA 328+55 TRK 2 LT

RELOCATED 8" SANITARY

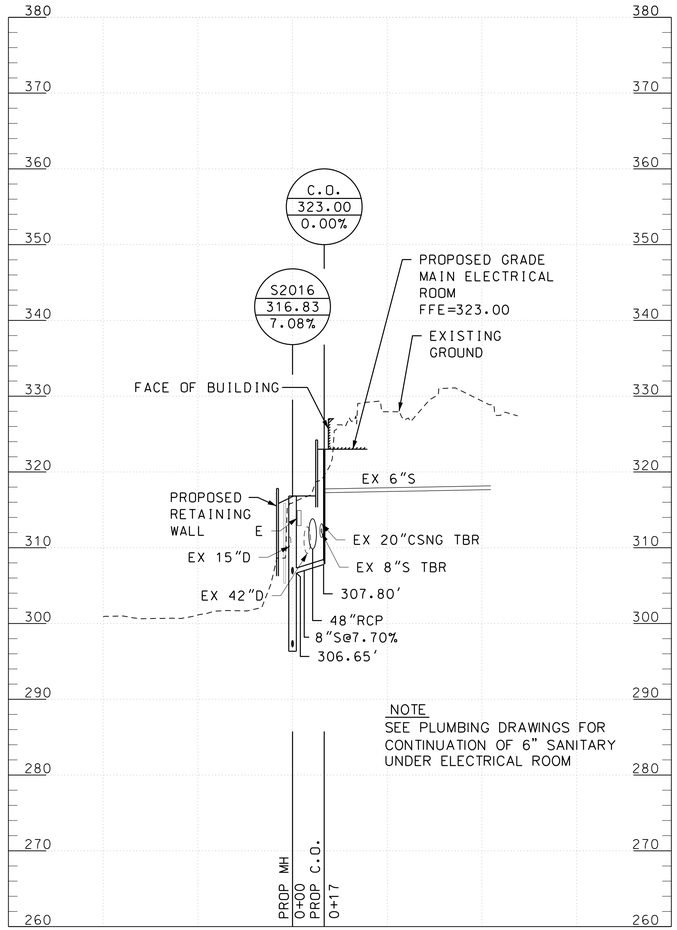
SCALE:HORZ. 1"=40'
VERT. 1"=10'



RELOCATION SILVER SPRING TRANSIT CENTER
STA 330+72 TRK 1 LT TO STA 332+63 TRK 1 RT

RELOCATED 8" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'



RELOCATION SILVER SPRING TRANSIT CENTER
STA 331+38 TRK 2 RT

RELOCATED 8" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 328+15 TO STA TRK 1 331+38

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-177
SHEET NO. 184 OF 259

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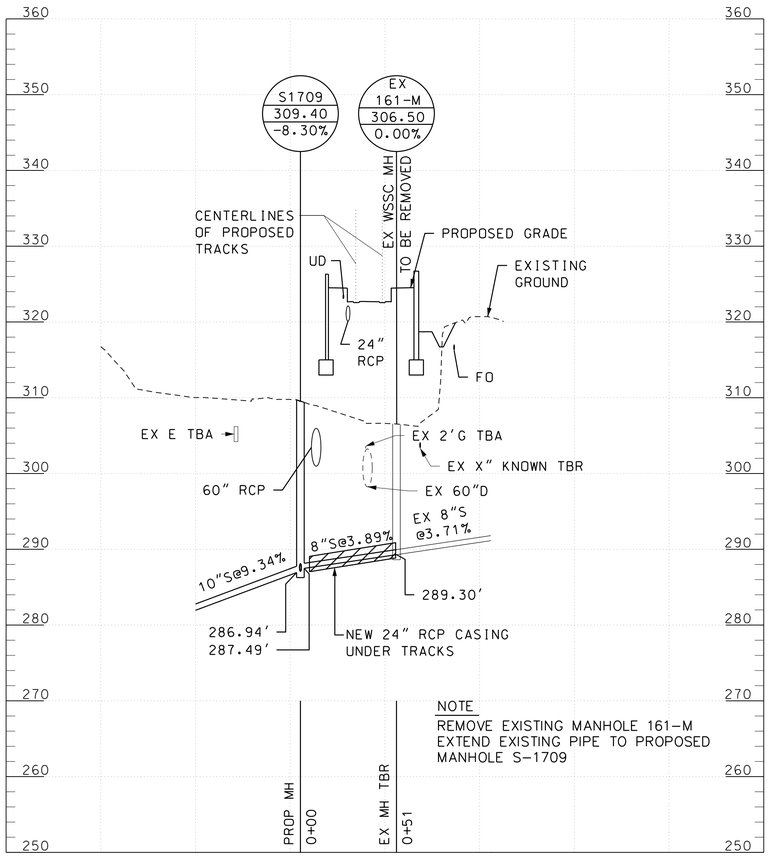
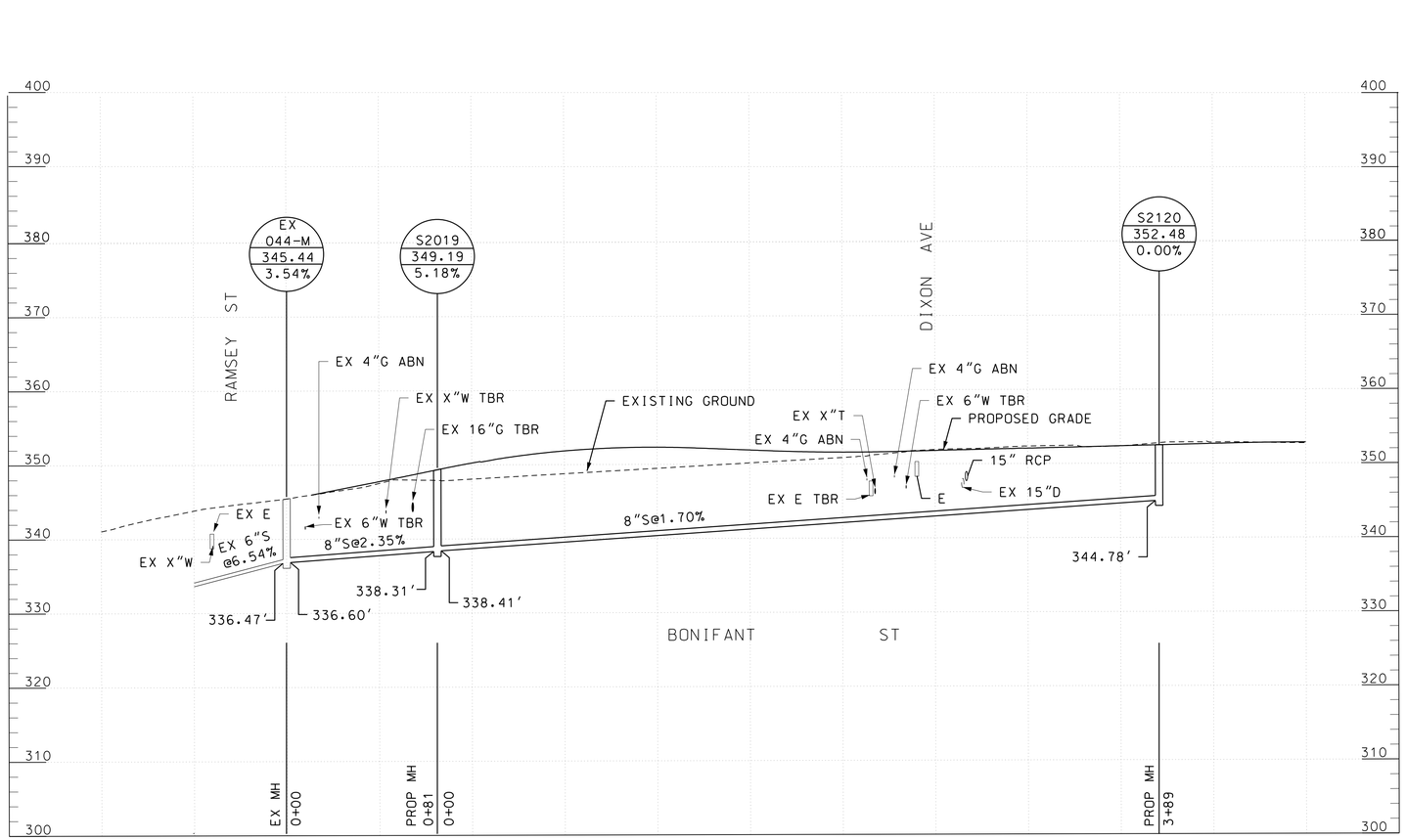
12/18/2013



RELOCATION STA 301+93
TRK 1 CROSSING

RELOCATED 8" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'



RELOCATION BONIFANT ST STA 335+02
TO STA 339+75 TRK 2 LT

RELOCATED 8" SANITARY

SCALE:HORZ. 1"=40'
VERT. 1"=10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 301+93 TO STA TRK 1 339+75
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-178
SHEET NO. 185 OF 259

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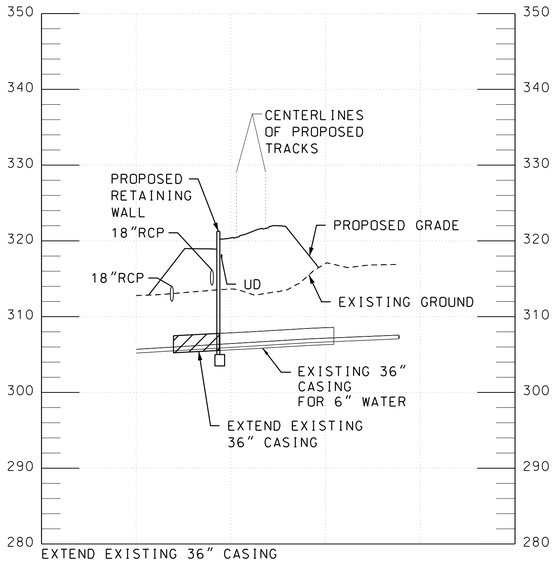
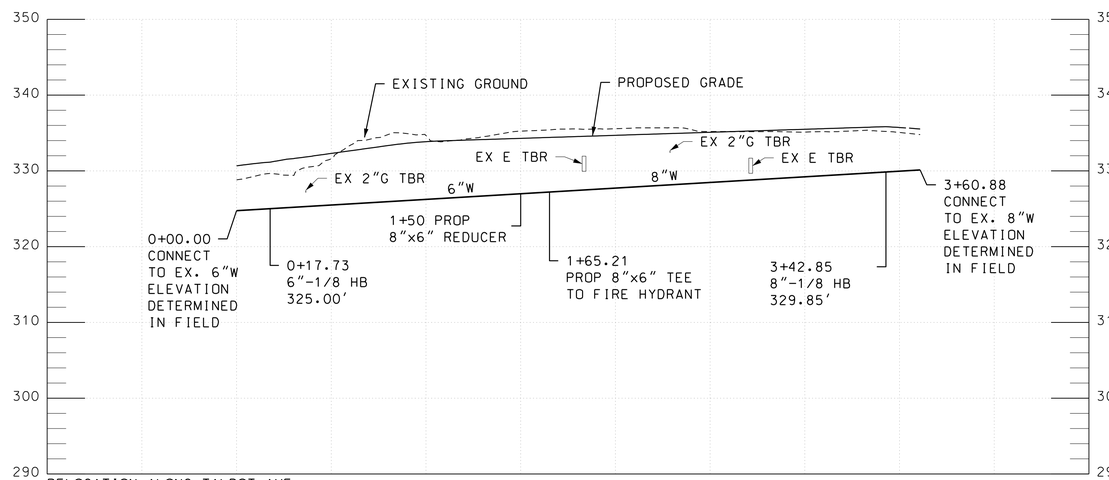
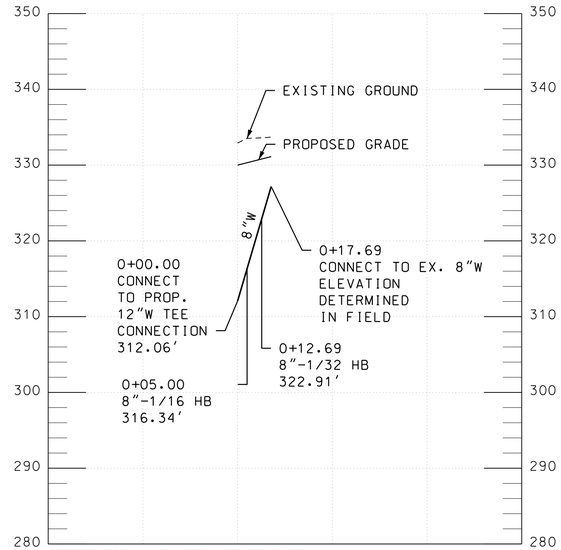
12/18/2013



EXTEND EXISTING 36" CASING
AT KANSAS AVE
STA 267+30 TRK 1 CROSSING



RELOCATION ALONG TALBOT AVE
FROM MICHIGAN AVE TO LANIER DR
STA 270+68 TO STA 274+18 TRK 1 RT



RELOCATION AT 16TH ST BRIDGE
STA 296+80 TO STA 296+90 TRK 1 RT

EXISTING 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

RELOCATED 6" & 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

RELOCATED 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 267+30 TO STA TRK 1 296+90

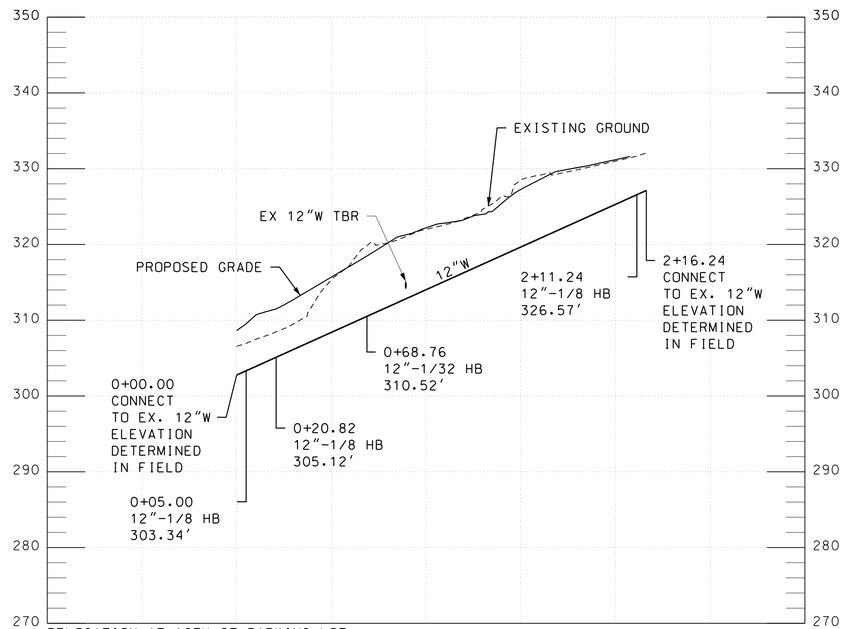
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

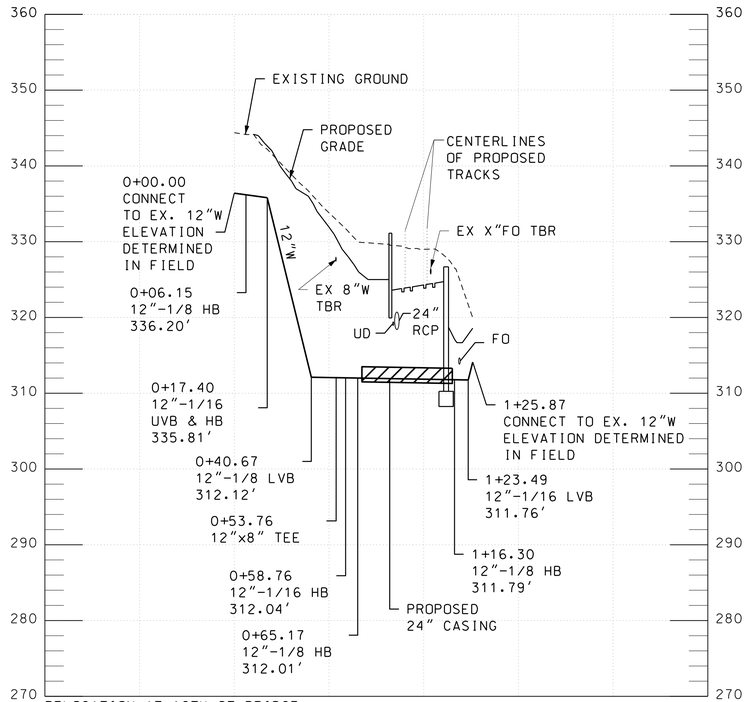
DRAWING NO.
UT-179

SHEET NO.
186 OF 259

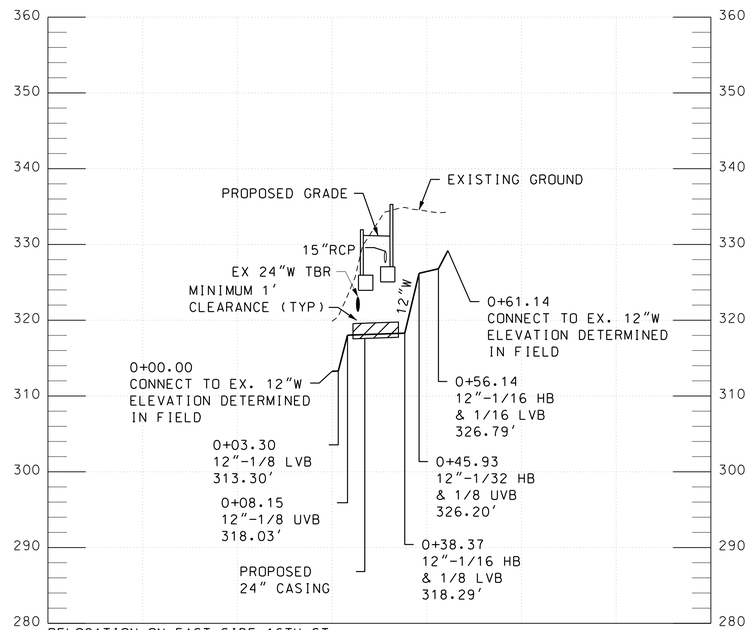
c:\pwworking\mtapw\je-brenda duong\d0101869\1042pUT2205.dgn
12/18/2013



RELOCATION AT 16TH ST PARKING LOT
STA 292+71 TO STA 294+77 TRK 1 RT



RELOCATION AT 16TH ST BRIDGE
STA 296+30 TO STA 296+82 TRK 1 RT



RELOCATION ON EAST SIDE 16TH ST
STA 296+82 TO STA 296+96 TRK 1
CROSSING AT CAPITAL CRESCENT TRAIL

RELOCATED 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

RELOCATED 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

RELOCATED 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 292+77 TO STA TRK 1 296+96

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-180

SHEET NO.
187 OF 259

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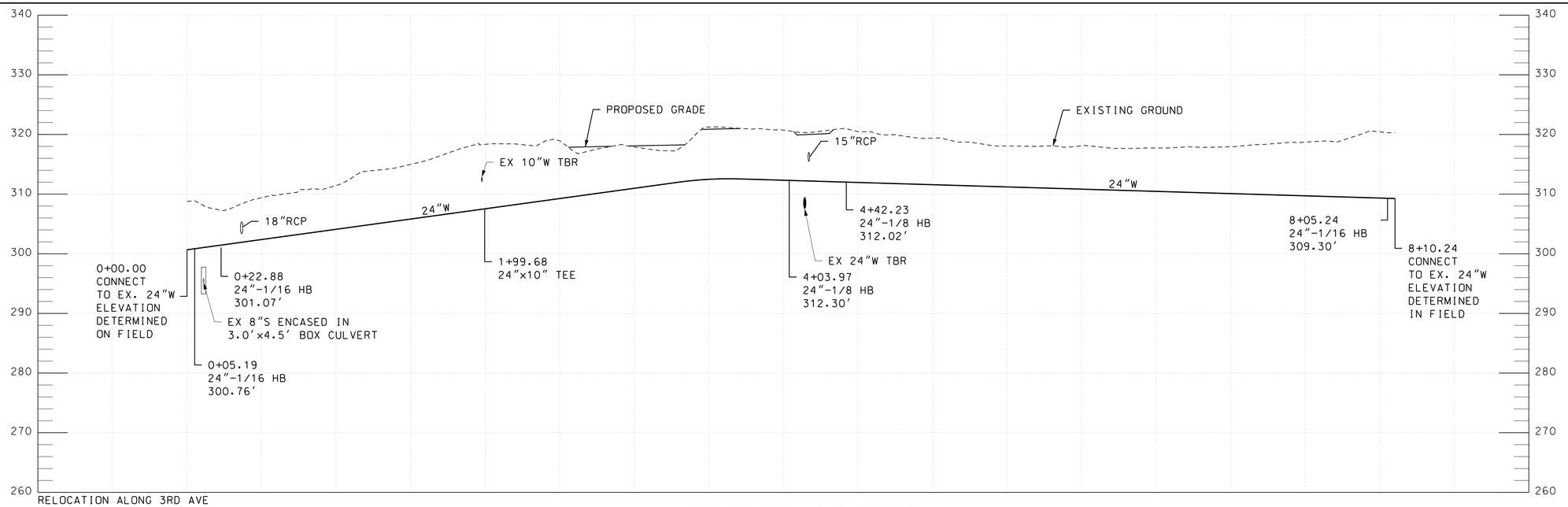
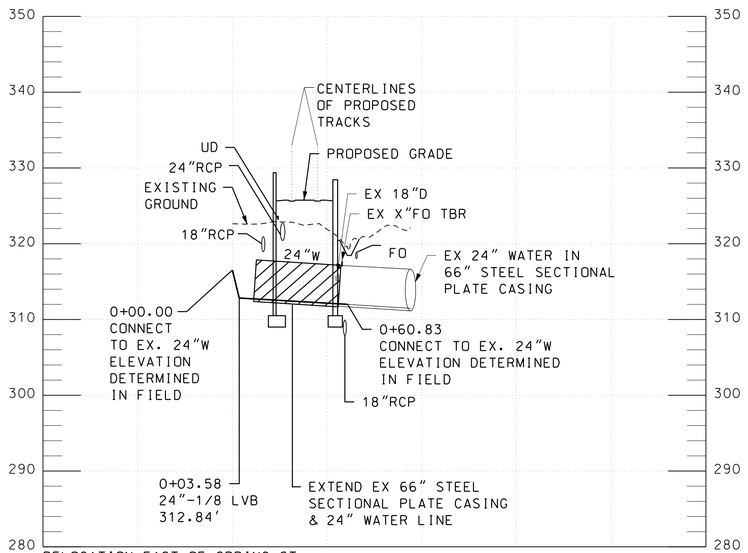
12/18/2013



RELOCATION ALONG 3RD AVE
FROM S. SPRINGWOOD DR TO SPRING ST
STA 301+76 TO STA 309+51 TRK 1
AT CAPTIAL CRESCENT TRAIL

RELOCATED 24" WATER

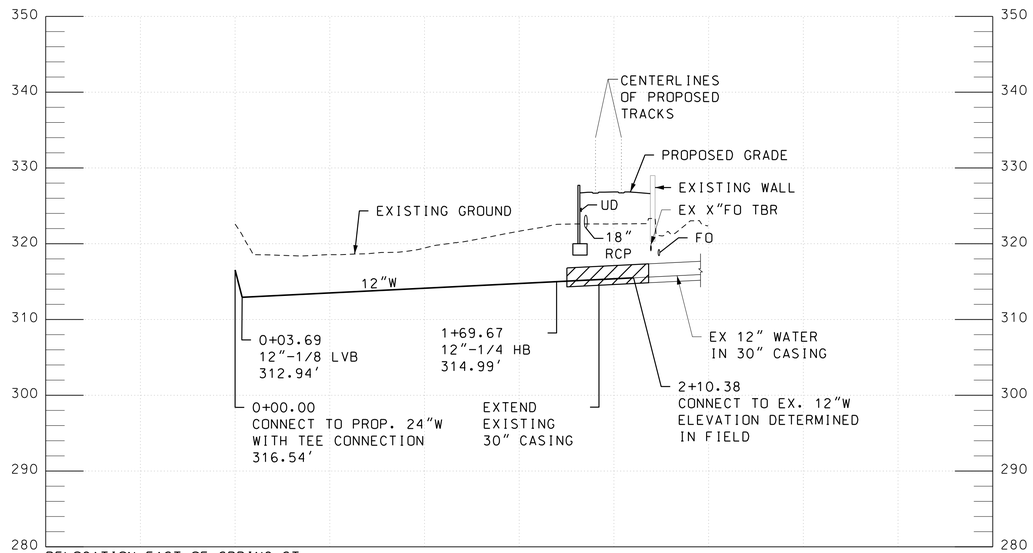
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION EAST OF SPRING ST
AT STA 310+65 TRK 1 CROSSING

RELOCATED 24" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION EAST OF SPRING ST
STA 310+70 TO STA 312+40 TRK 1 RT

RELOCATED 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
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APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 301+76 TO STA TRK 1 312+40
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-181
SHEET NO. 188 OF 259

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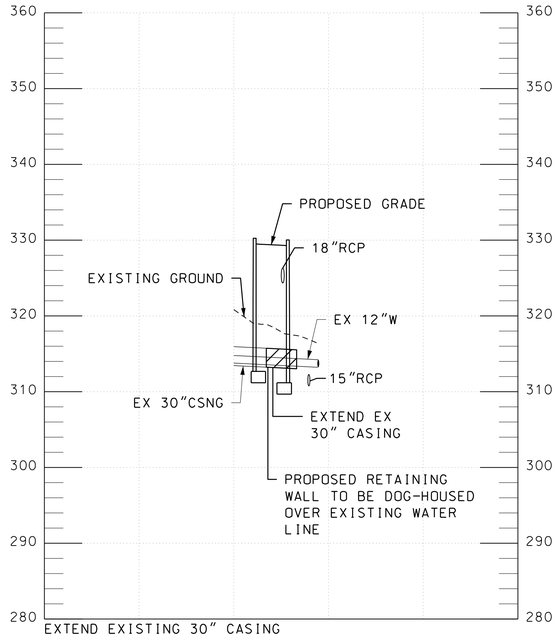
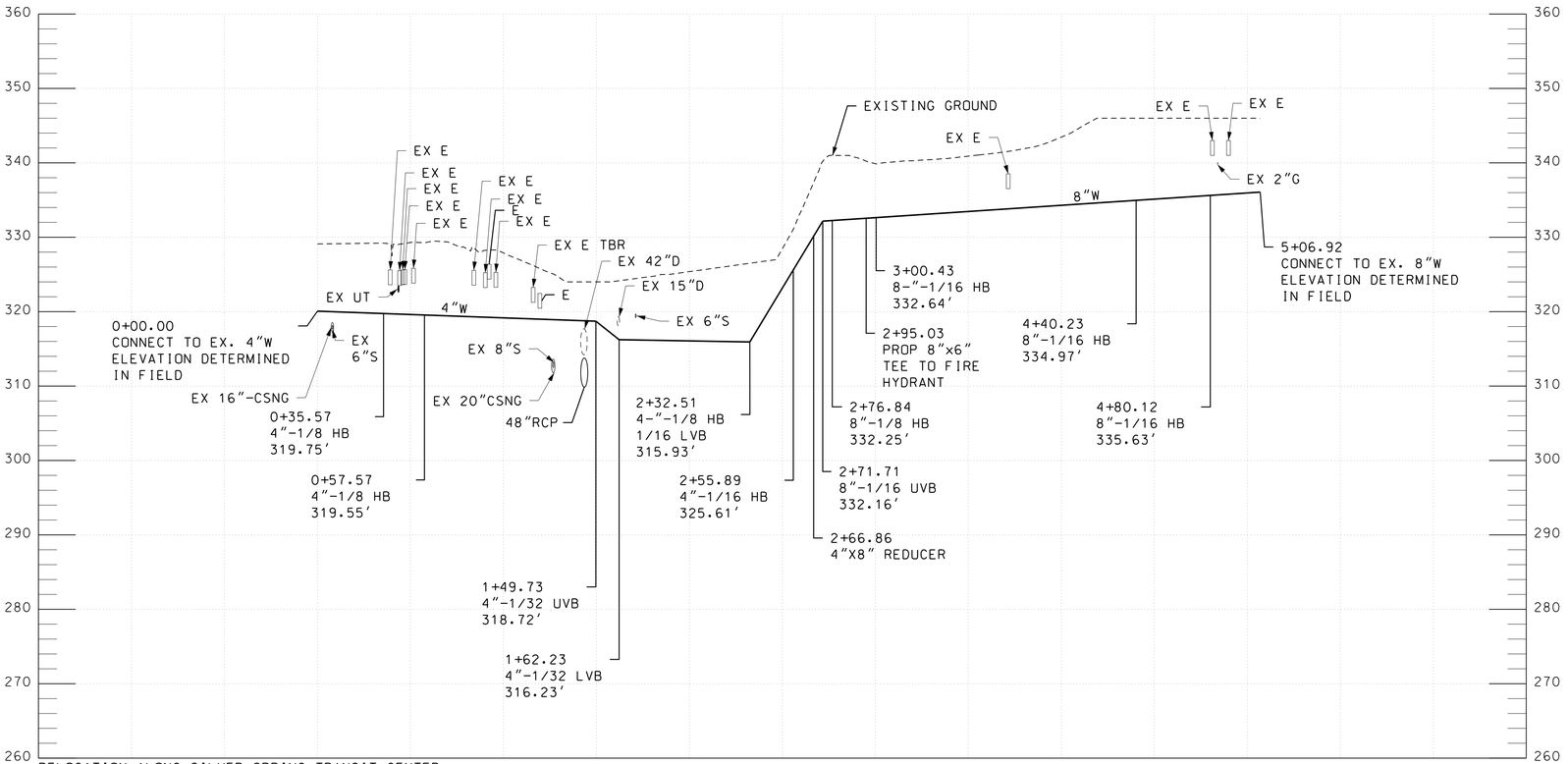
12/18/2013



EXTEND EXISTING 30" CASING
AT STA 312+47 TRK 1 CROSSING AT
CAPTIAL CRESCENT TRAIL

EXISTING 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG SILVER SPRING TRANSIT CENTER
STA 331+22 TRK 1 RT TO STA 335+00 TRK 1 LT

RELOCATED 4" & 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 312+47 TO STA TRK 1 335+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-182
SHEET NO.
189 OF 259

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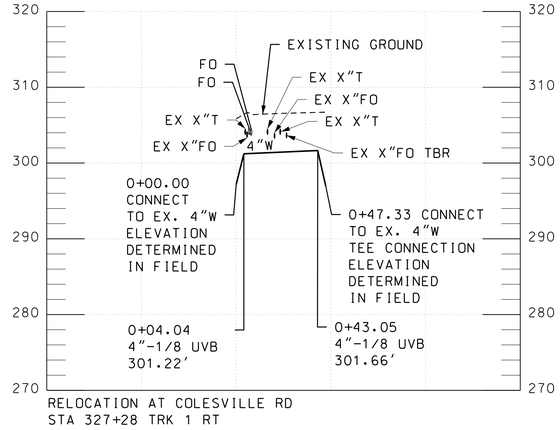
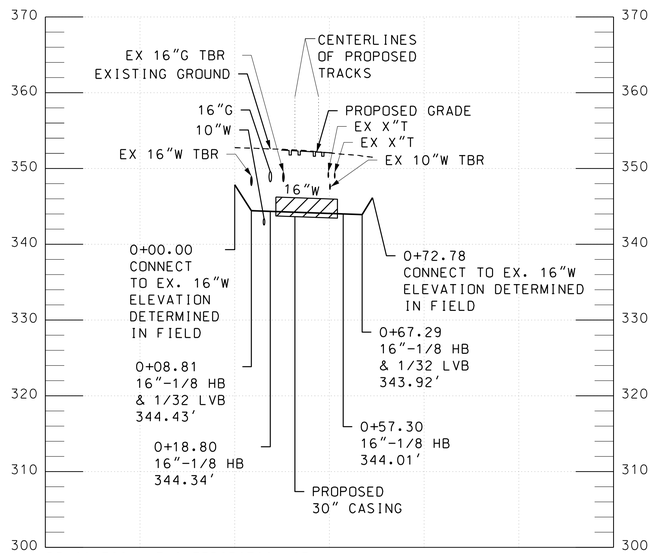
12/18/2013



RELOCATION AT COLESVILLE RD
STA 327+28 TRK 1 RT

RELOCATED 4" WATER

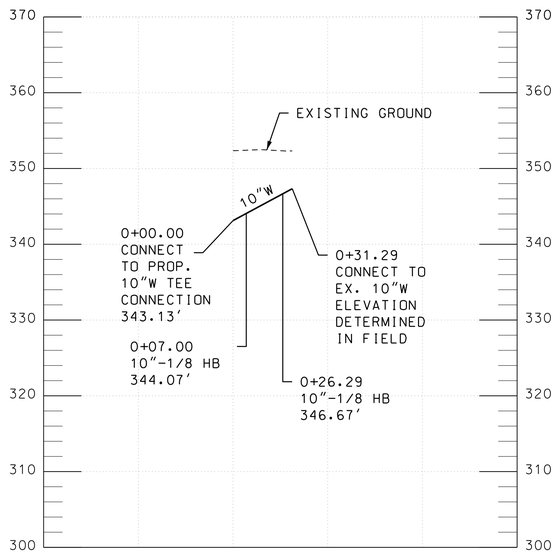
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION AT INTERSECTION OF
BONIFANT ST AND GEORGIA AVE
STA 341+80 TRK 1 CROSSING

RELOCATED 16" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION AT INTERSECTION OF
BONIFANT ST AND GEORGIA AVE
STA 342+46 TO STA 342+69 TRK 1
CROSSING

RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 327+28 TO STA TRK 1 342+69

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-183
SHEET NO.
190 OF 259

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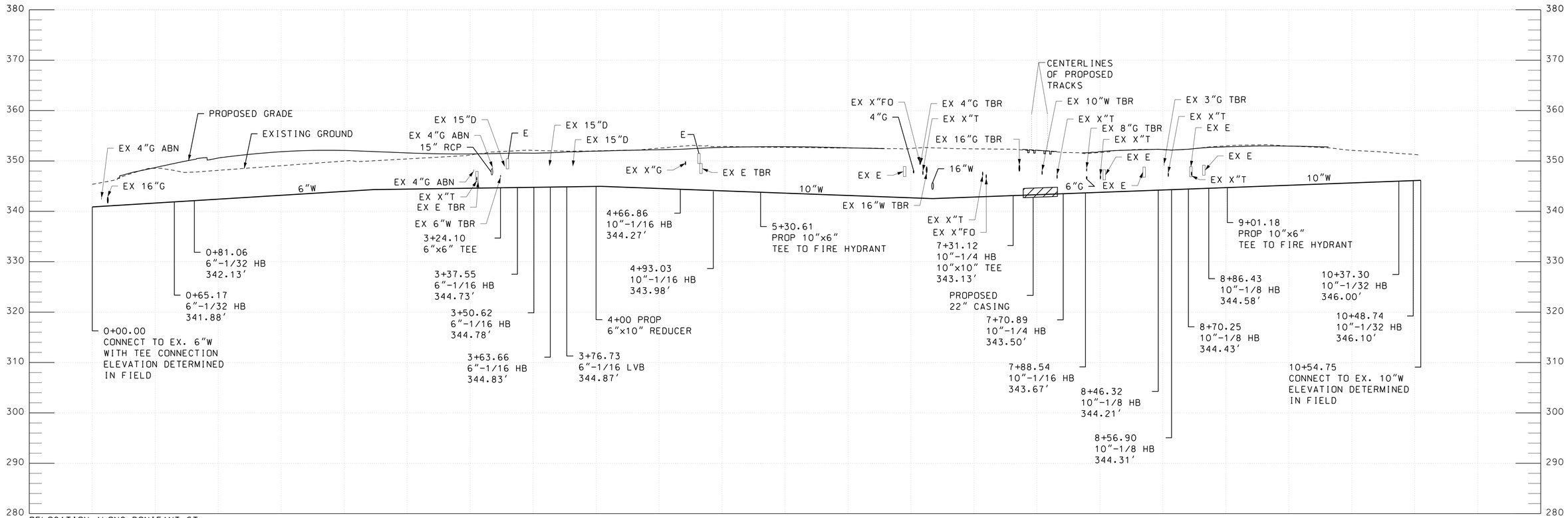
12/18/2013



RELOCATION ALONG BONIFANT ST
STA 335+41 TO STA 345+10 TRK 1 RT

RELOCATED 6" & 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 335+41 TO STA TRK 1 345+10

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-184

SHEET NO.
191 OF 259

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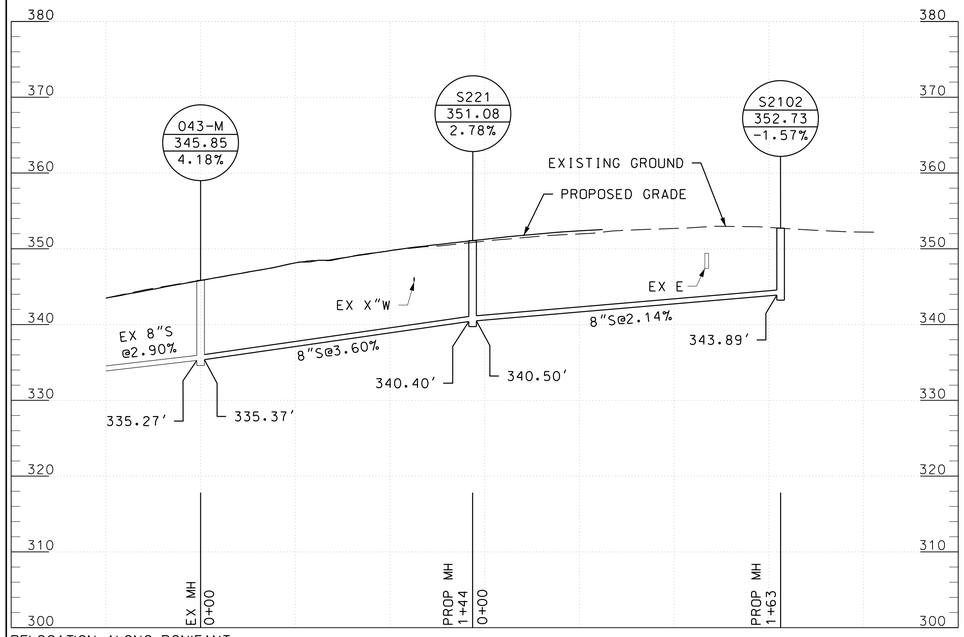
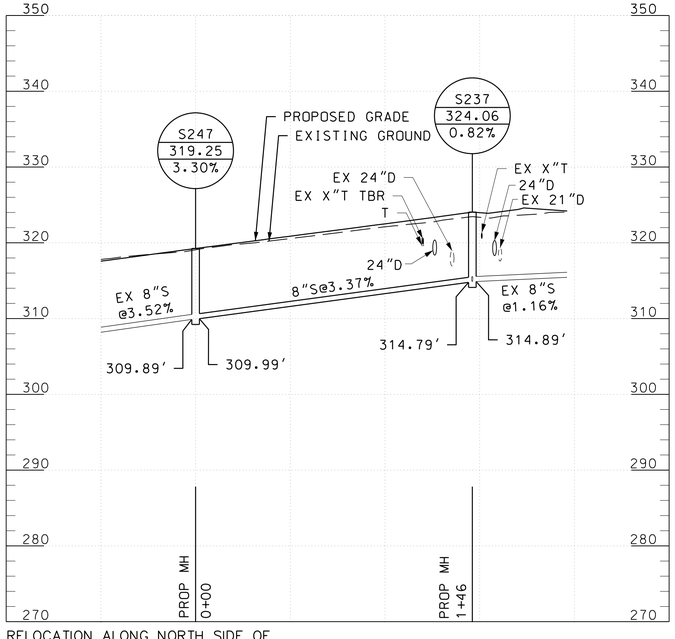
12/18/2013



RELOCATION ALONG BONIFANT ST EAST OF GEORGIA AVE (STA TRK 1 343+50 TO 346+55)

RELOCATED 8" SANITARY SEWER

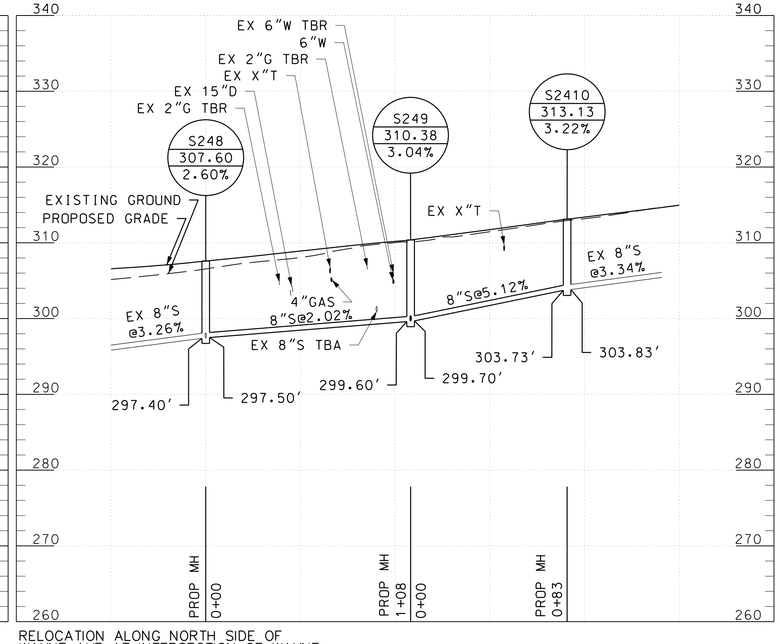
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG NORTH SIDE OF WAYNE AVE EAST OF CEDAR ST (STA TRK 1 362+80 TO 364+25)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG NORTH SIDE OF WAYNE AVE AT INTERSECTION OF WAYNE AVE AND SPRINGVALE RD (STA TRK 1 366+13 TO 368+05)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 343+50 TO STA TRK 1 368+05

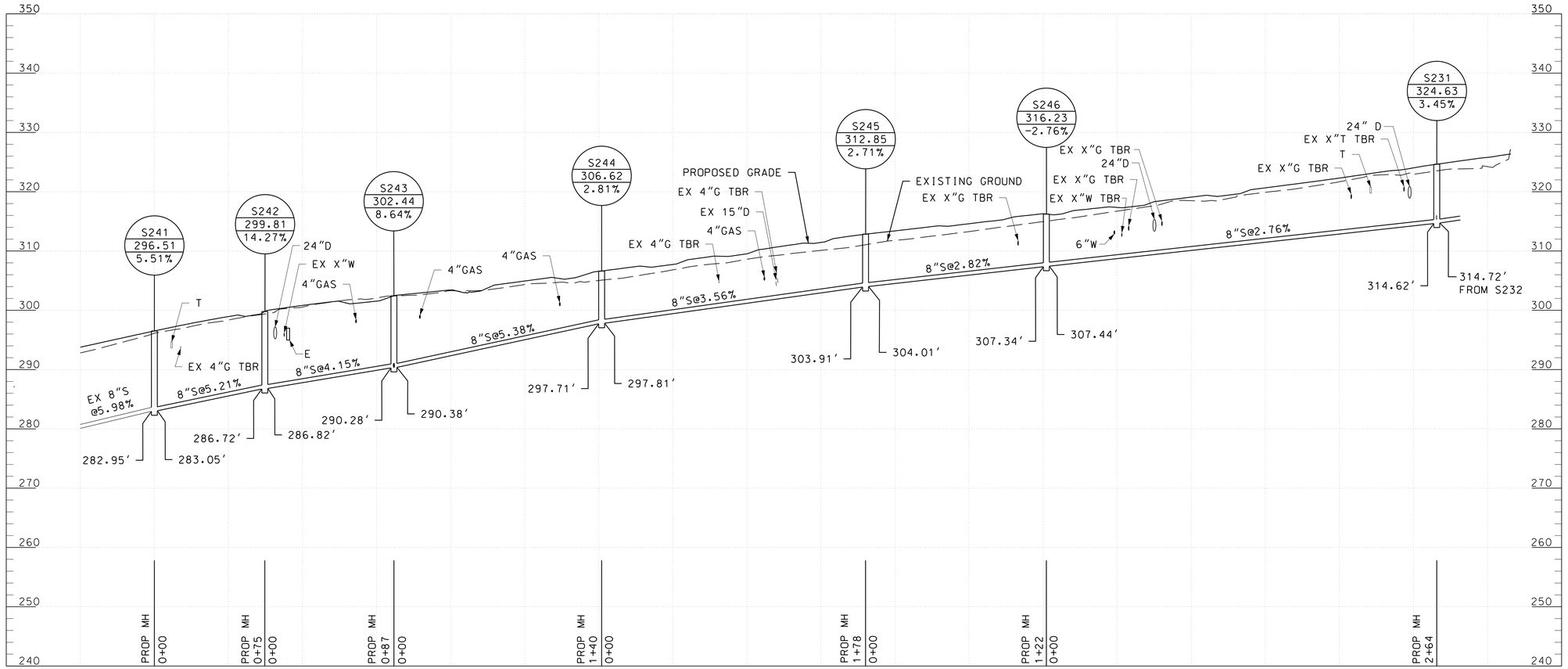
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-185

SHEET NO.
192 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3201.dgn
12/11/2013



RELOCATION ALONG SOUTH SIDE OF WAYNE AVE FROM CEDAR ST TO GREENBRIER DR (STA TRK 1 362+85 TO 371+55)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

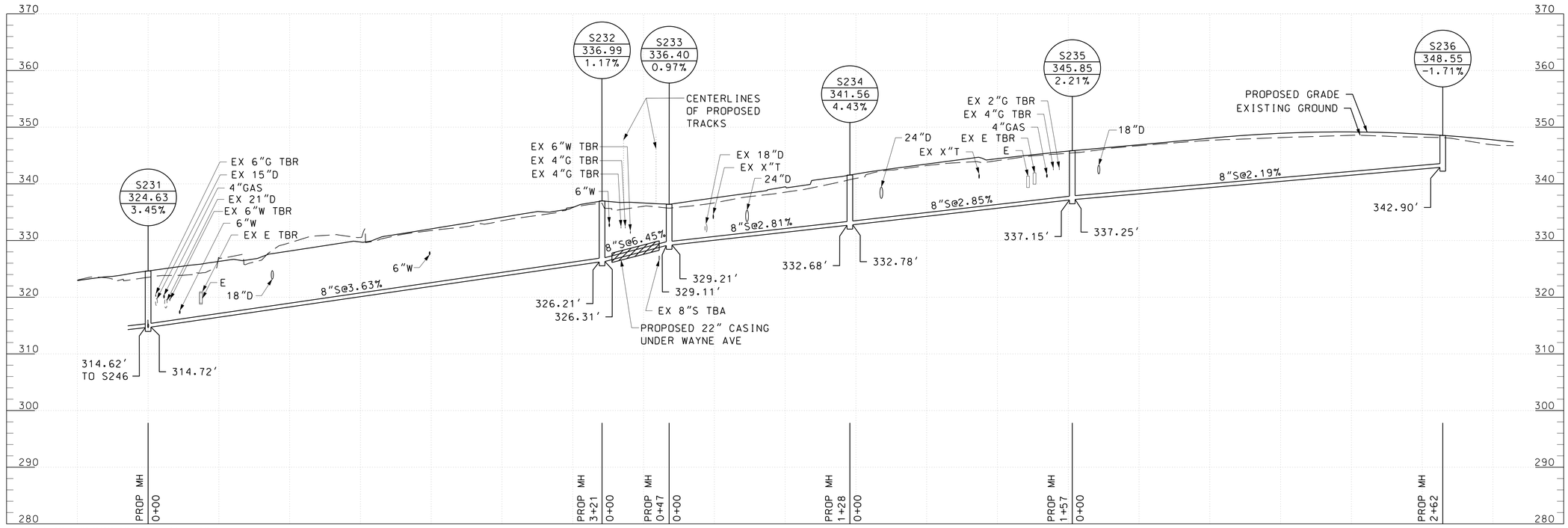
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 362+85 TO STA TRK 1 371+55

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-186
SHEET NO. 193 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3202.dgn
12/11/2013



RELOCATION ALONG WAYNE AVE FROM FENTON ST TO CEDAR ST (STA TRK 1 354+10 TO 362+85)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 354+10 TO STA TRK 1 362+85
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-187
SHEET NO.
194 OF 189

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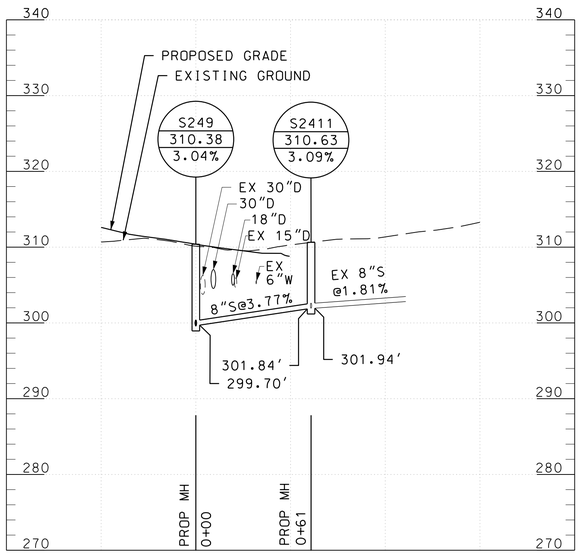
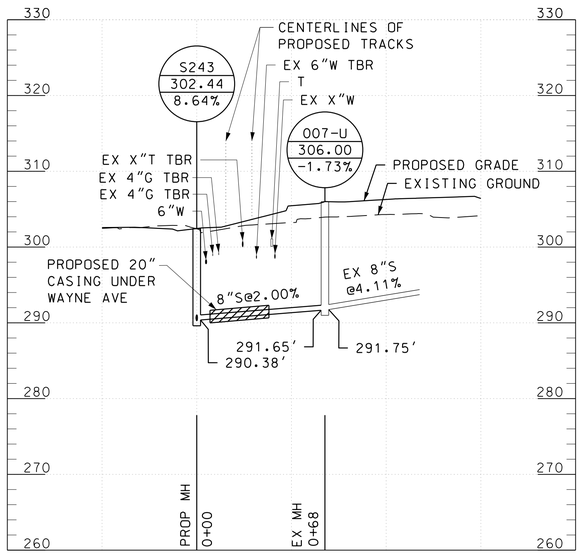
12/11/2013



RELOCATION ALONG SPRINGVALE RD AT INTERSECTION OF SPRINGVALE RD AND WAYNE AVE (STA TRK 1 367+00)

RELOCATED 8" SANITARY SEWER

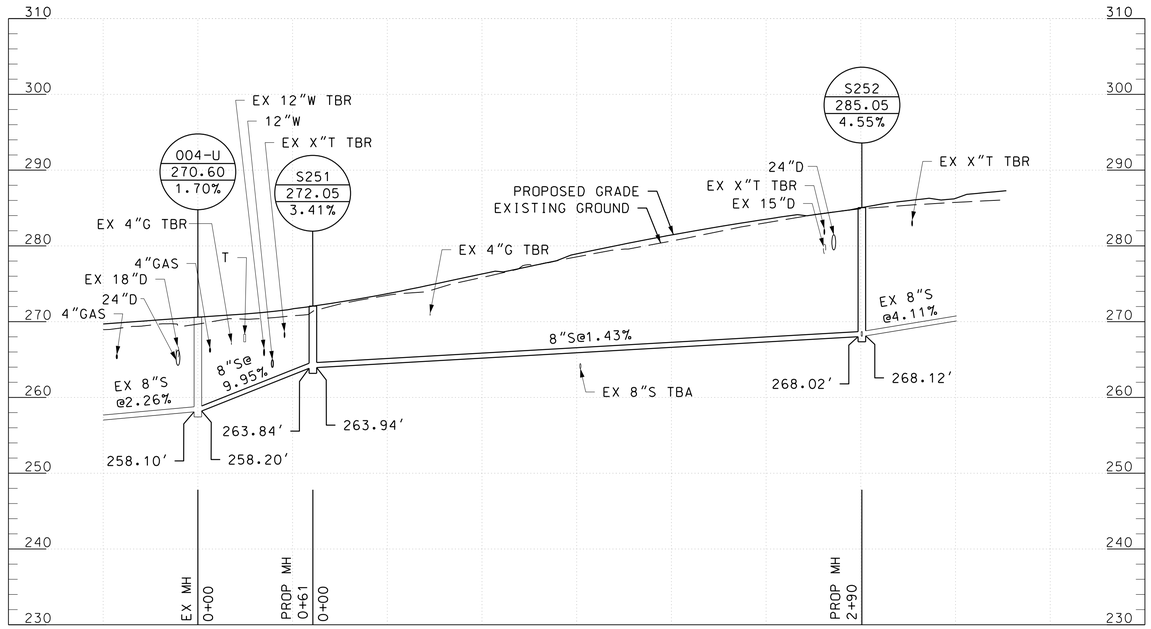
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG CLOVERFIELD RD AT INTERSECTION OF CLOVERFIELD RD AND WAYNE AVE (STA TRK 1 369+80)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG SOUTH SIDE OF WAYNE AVE FROM DARTMOUTH AVE TO DALE DR (STA TRK 1 374+75 TO 378+30)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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MARYLAND TRANSIT ADMINISTRATION
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DESGN
DRAWN
CHECK
APPR

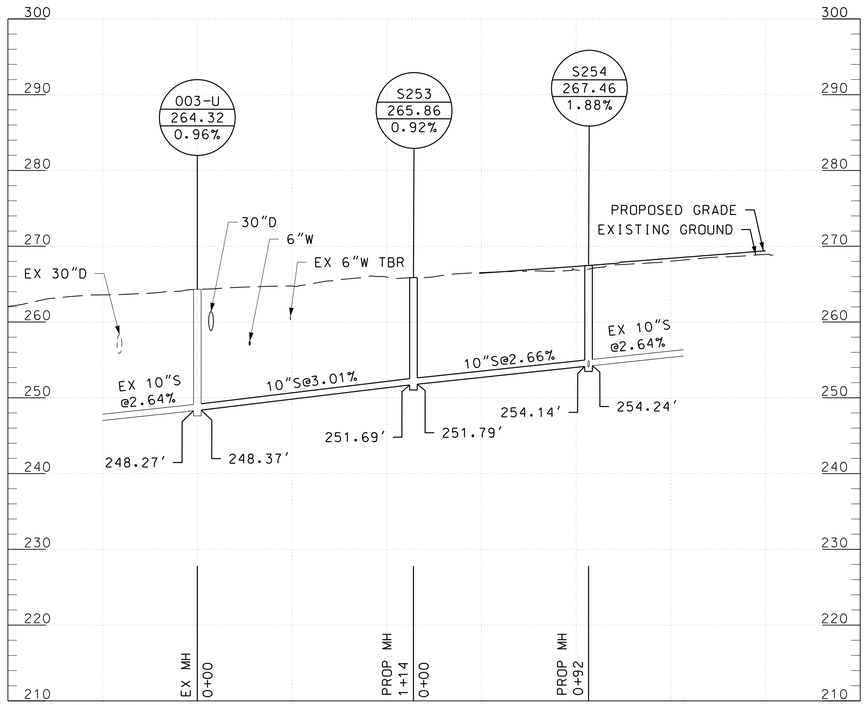
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 367+00 TO STA TRK 1 378+30

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-188
SHEET NO. 195 OF 259

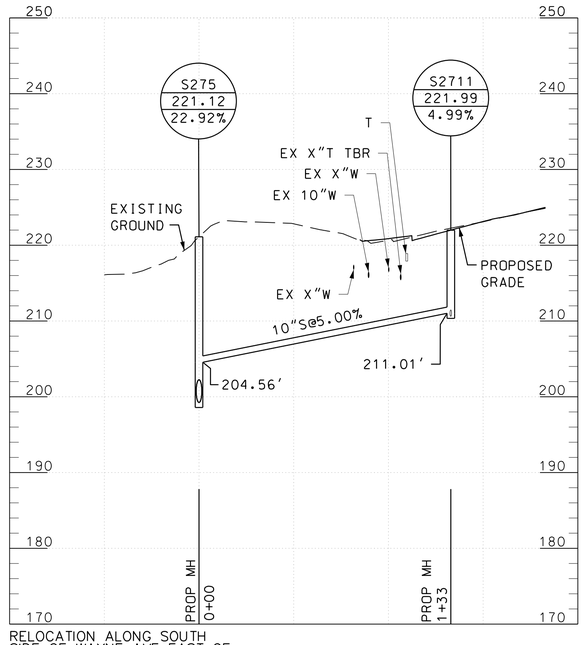
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3204.dgn
12/11/2013



RELOCATION ALONG SOUTH SIDE OF WAYNE AVE EAST OF DALE DR (STA TRK 1 379+85 TO 396+09)

RELOCATED 10" SANITARY SEWER

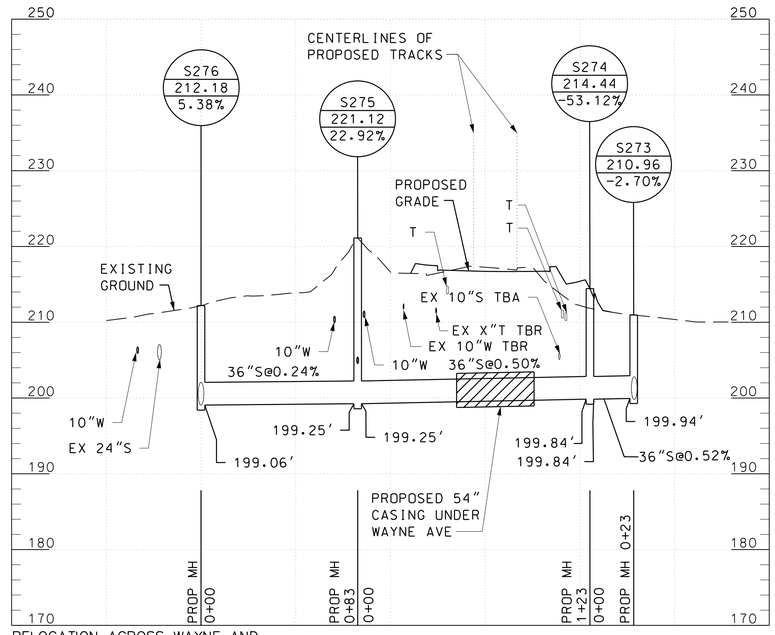
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG SOUTH SIDE OF WAYNE AVE EAST OF MANSFIELD RD (STA TRK 1 394+81 TO 396+09)

RELOCATED 10" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ACROSS WAYNE AND WEST OF SLIGO CREEK PKWY (STA TRK 1 396+04 TO 396+92)

RELOCATED 36" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

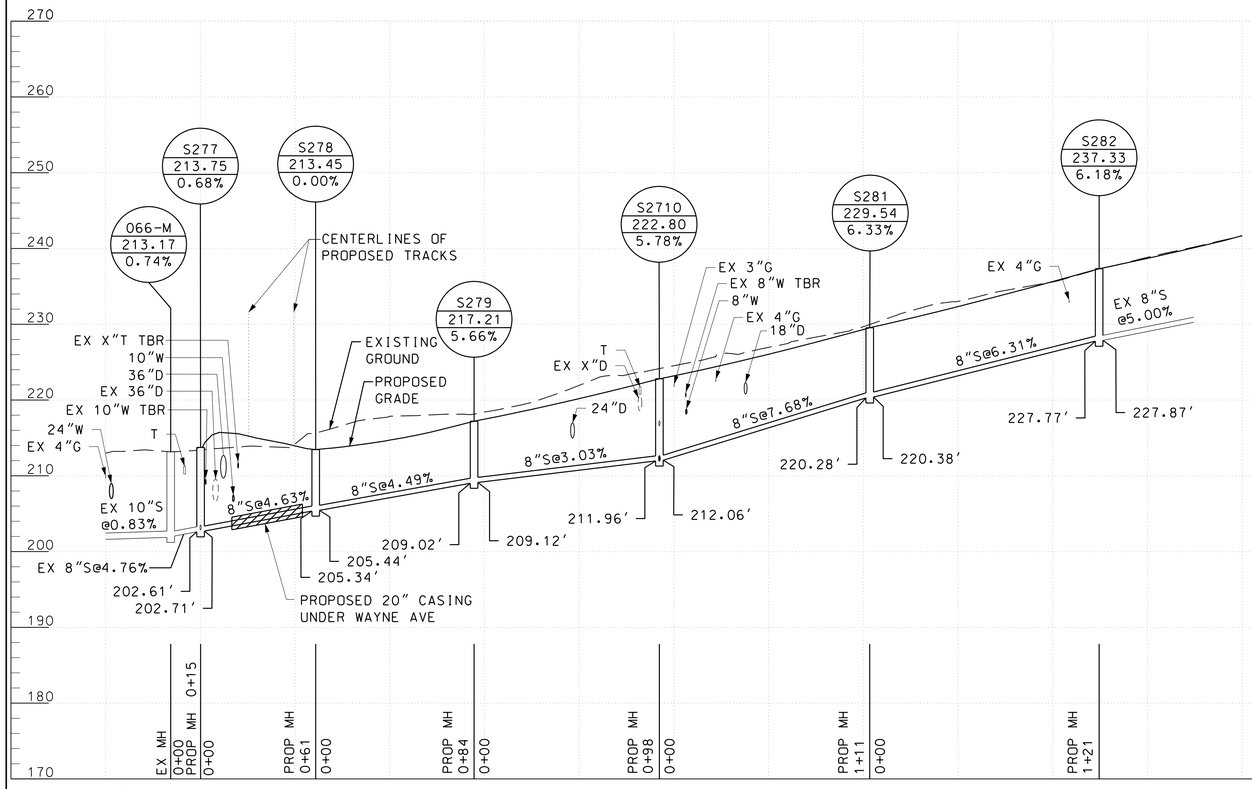
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 379+85 TO STA TRK 1 396+92

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-189
SHEET NO. 196 OF 259

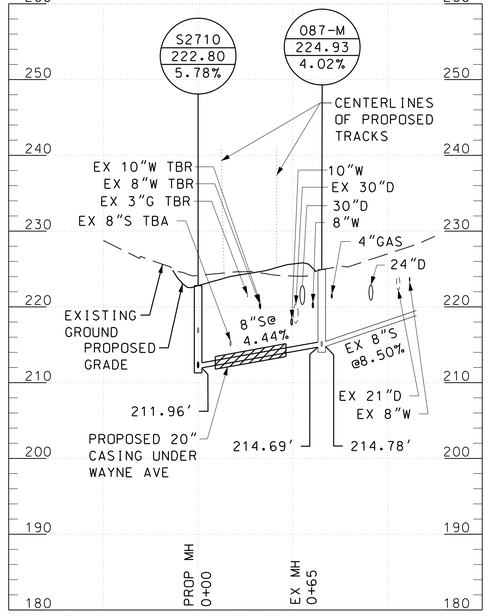
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3205.dgn
12/11/2013



RELOCATION ALONG WAYNE AVE FROM SLIGO CREEK PKWY TO EAST OF MANCHESTER RD (STA TRK 1 398+90 TO 403+45)

RELOCATED 8" SANITARY SEWER

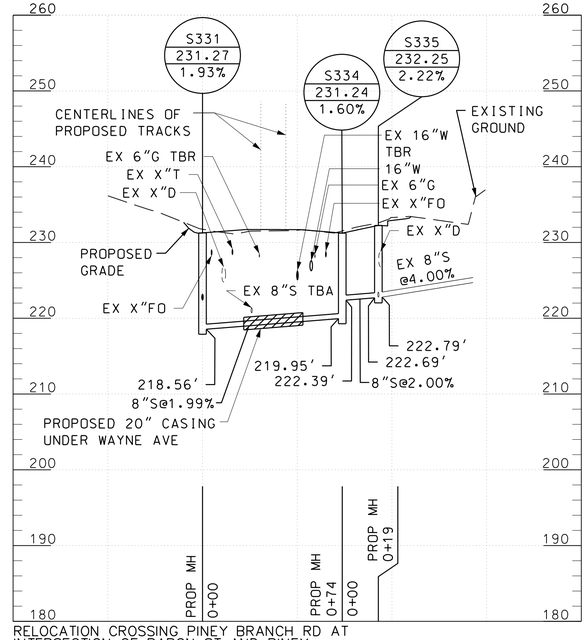
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG MANCHESTER RD AT INTERSECTION OF WAYNE AVE AND MANCHESTER RD (STA TRK 1 400+92)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING PINEY BRANCH RD AT INTERSECTION OF BARON ST AND PINEY BRANCH RD (STA TRK 1 445+48 TO 445+65)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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MTA Maryland

Gannett Fleming
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CHECK
APPR

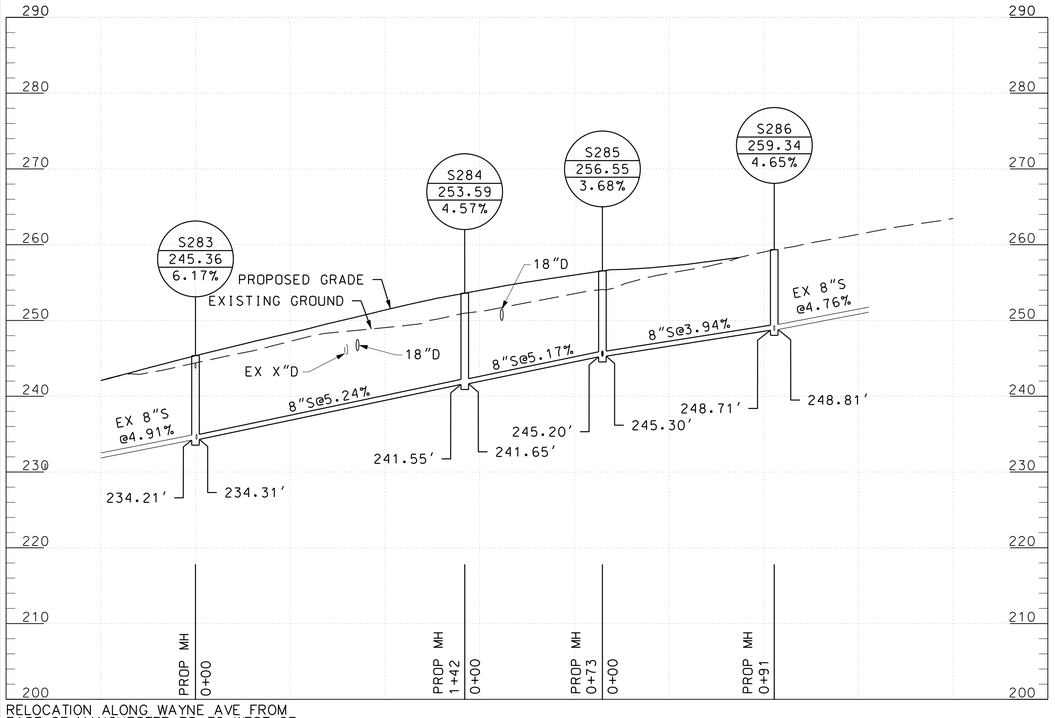
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 398+90 TO STA TRK 1 445+65

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-190
SHEET NO. 197 OF 259

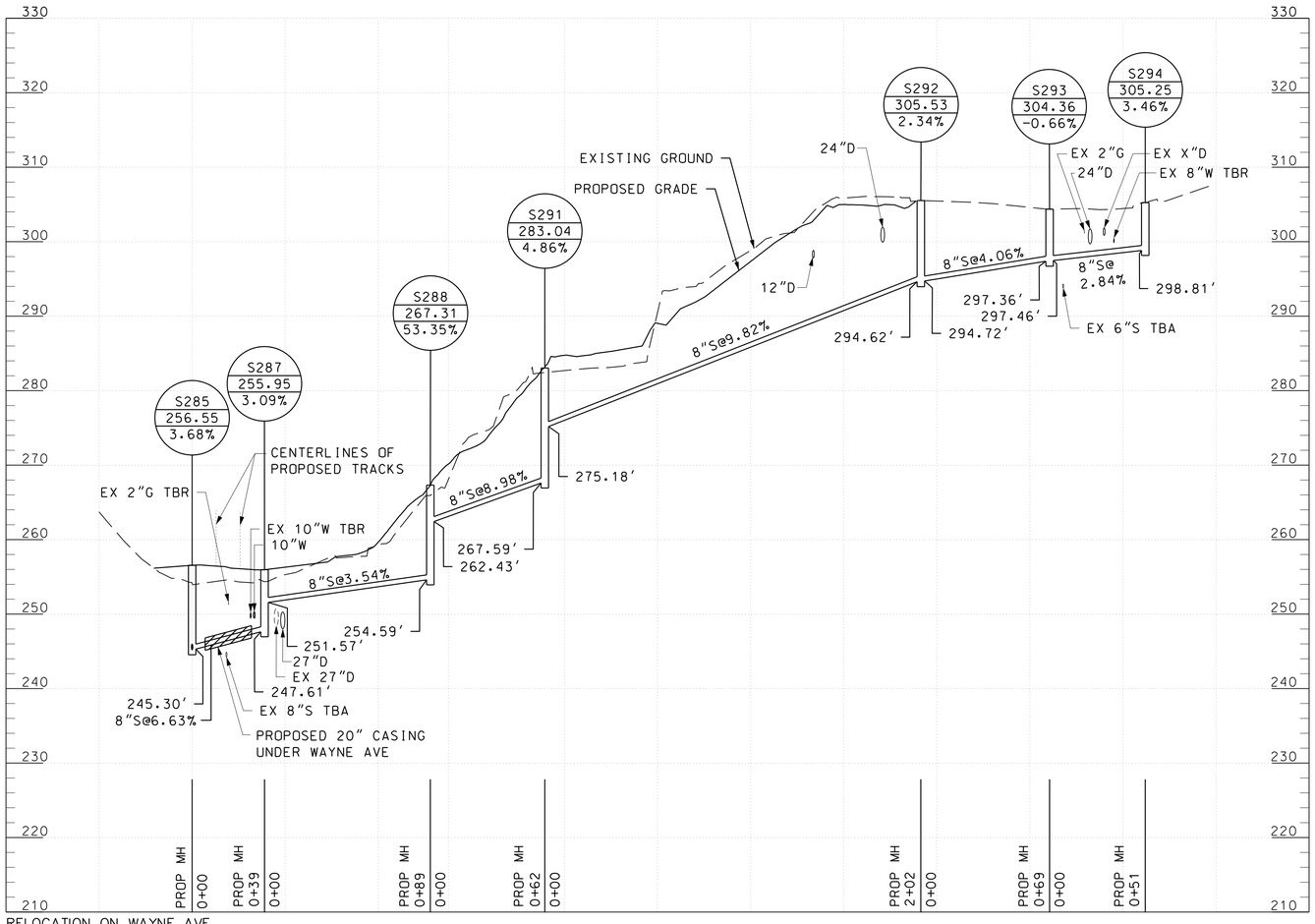
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3206.dgn
12/11/2013



RELOCATION ALONG WAYNE AVE FROM EAST OF MANCHESTER RD TO WEST OF MANCHESTER PL (STA TRK 1 404+80 TO 407+65)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ON WAYNE AVE TO PLYMOUTH ST (STA TRK 1 406+90 TO 411+22)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 404+80 TO STA TRK 1 411+22

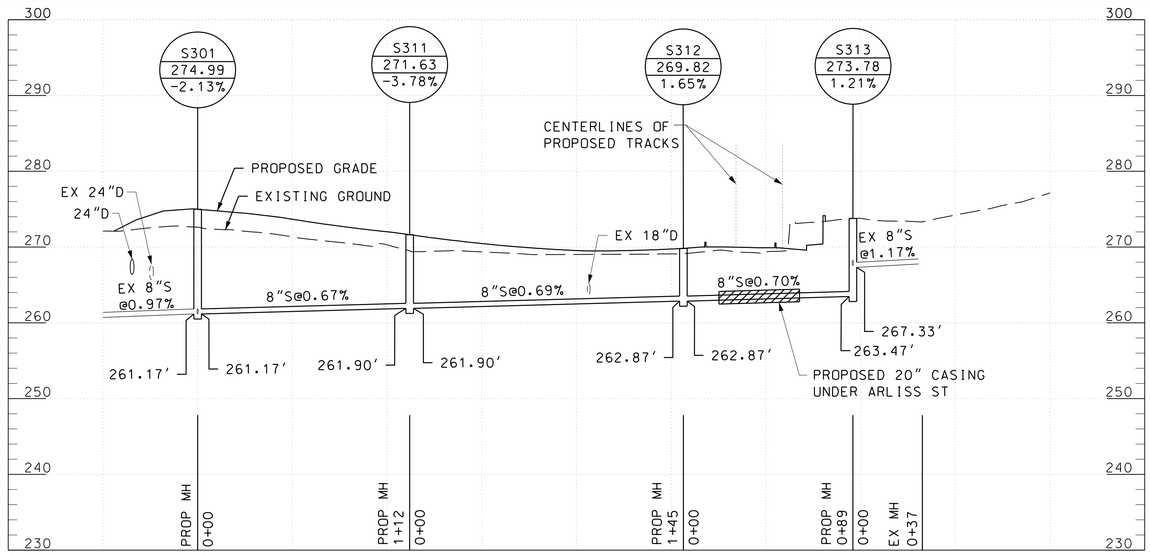
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-191

SHEET NO.
198 OF 259

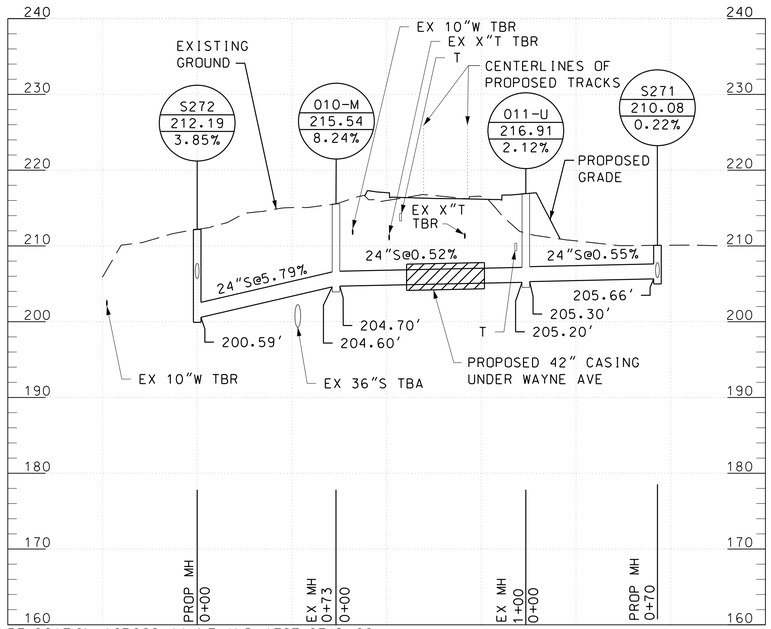
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3207.dgn
12/11/2013



RELOCATION ALONG ARLISS ST SOUTH OF
WALDEN RD (STA TRK 1 427+50 TO 429+83)

RELOCATED 8" SANITARY SEWER

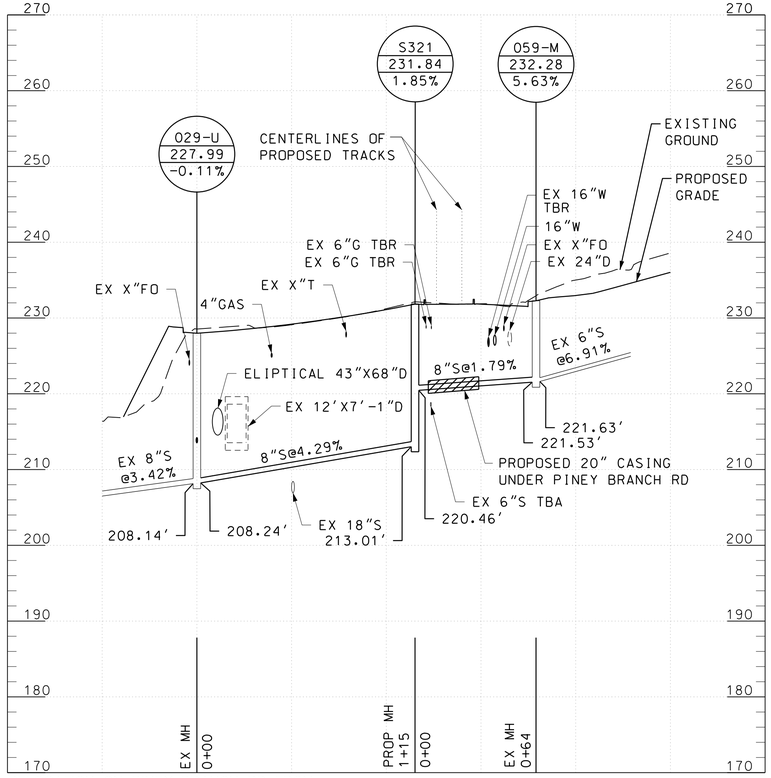
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ACROSS WAYNE AND WEST OF SLIGO
CREEK PKWY (STA TRK 1 396+19 TO 396+96)

RELOCATED 24" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ON PINEY BRANCH RD FROM
GARLAND AVE TO EAST OF BARRON ST
(STA TRK 1 441+70 TO 442+95)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 396+19 TO STA TRK 1 442+95

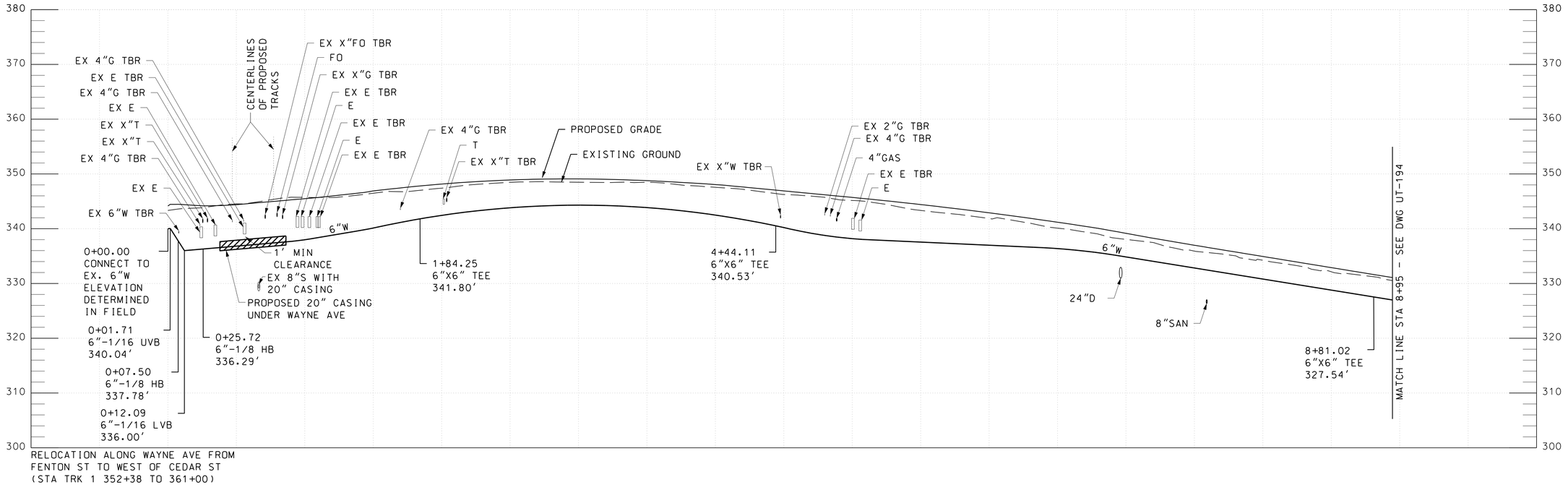
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-192

SHEET NO.
199 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Sanitary\1042pUT3208.dgn
12/11/2013



RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80' HORIZONTAL SCALE: 1"=40'

10' 0 10' 20' VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

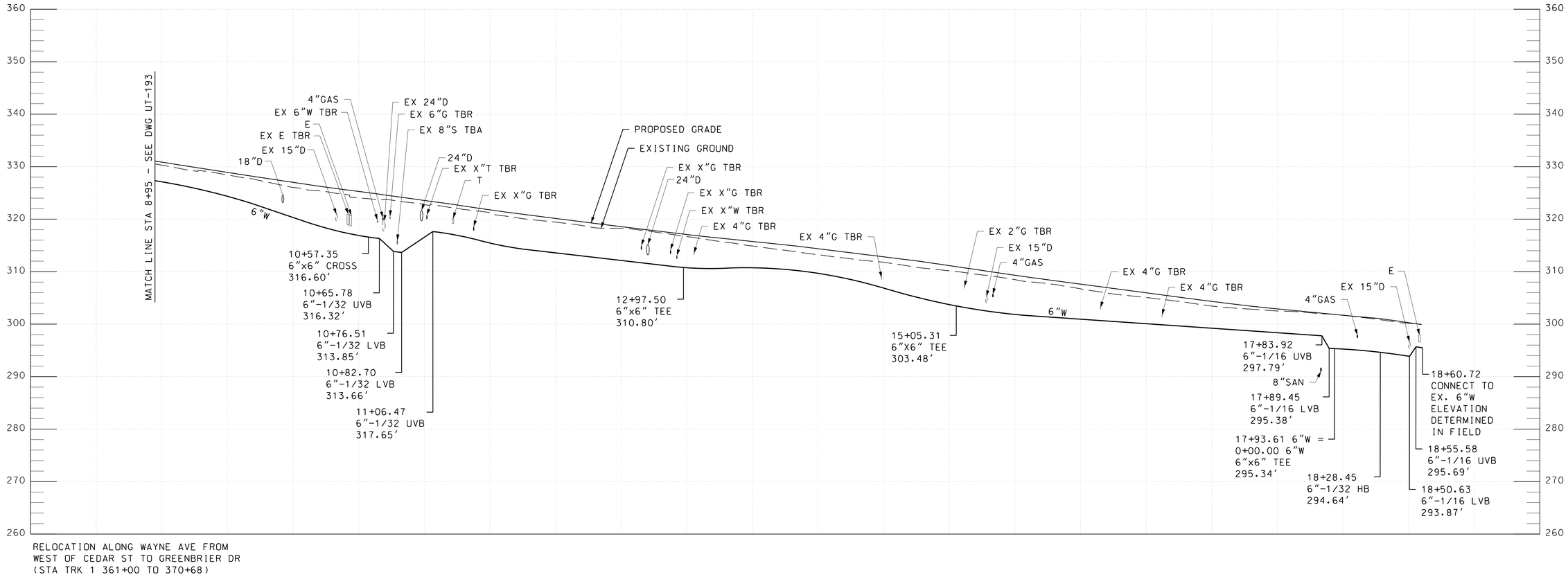
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 352+38 TO STA TRK 1 361+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-193
SHEET NO. 200 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3209.dgn
12/11/2013



RELOCATION ALONG WAYNE AVE FROM
WEST OF CEDAR ST TO GREENBRIER DR
(STA TRK 1 361+00 TO 370+68)

RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 361+00 TO STA TRK 1 370+68

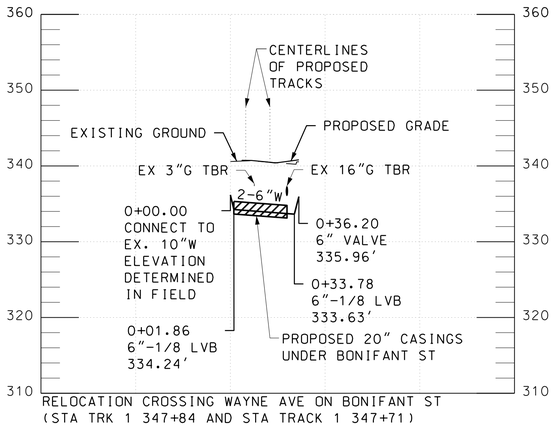
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-194

SHEET NO.
201 OF 259

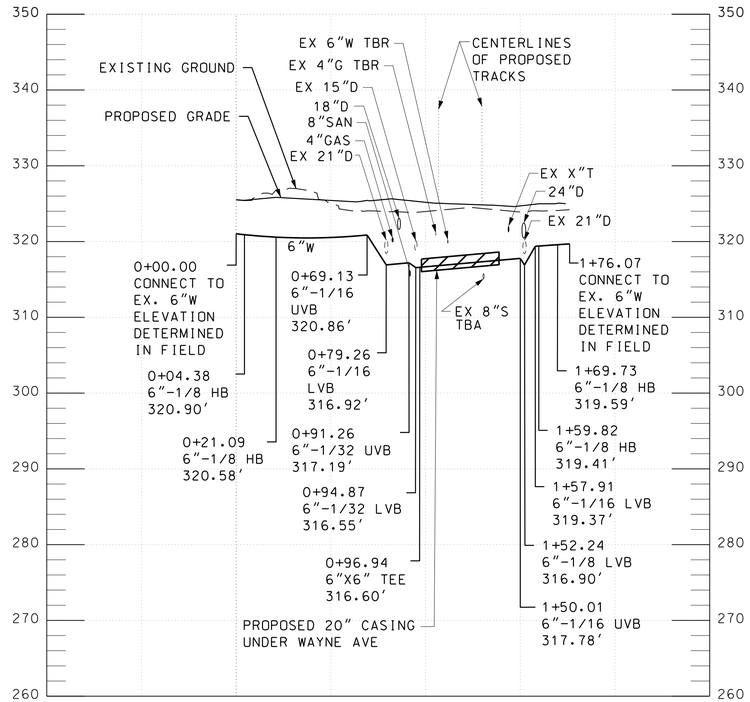
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3210.dgn
12/11/2013



RELOCATION CROSSING WAYNE AVE ON BONIFANT ST
(STA TRK 1 347+84 AND STA TRACK 1 347+71)

TWO RELOCATED 6" WATERS

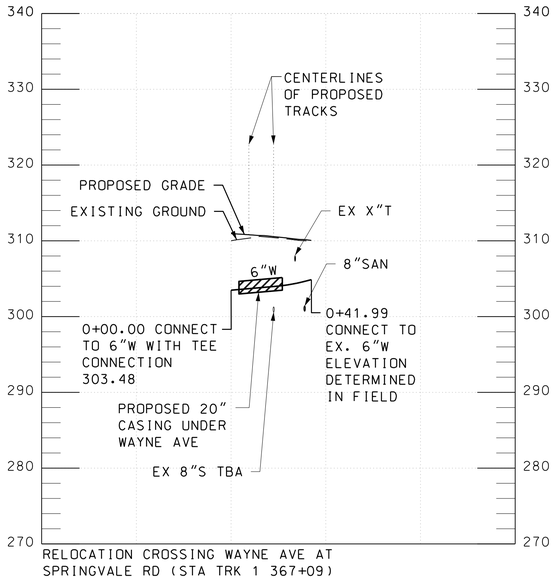
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING WAYNE AVE AT
CEDAR ST (STA TRK 1 362+62)

RELOCATED 6" WATER

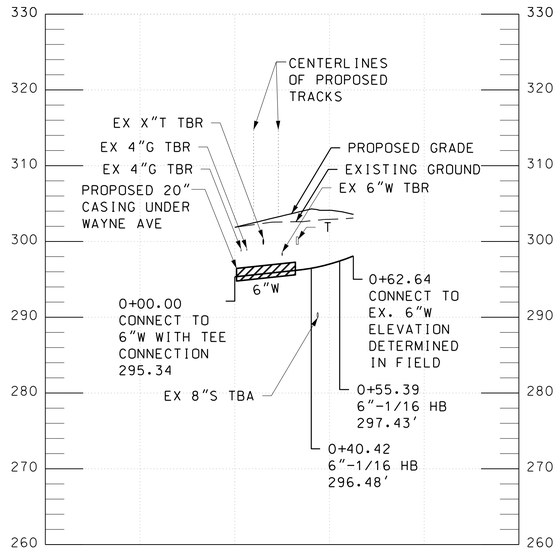
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING WAYNE AVE AT
SPRINGVALE RD (STA TRK 1 367+09)

RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING WAYNE AVE AT
CLOVERFIELD RD (STA TRK 1 369+99)

RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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WR&A

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DESIGN
DRAWN
CHECK
APPR

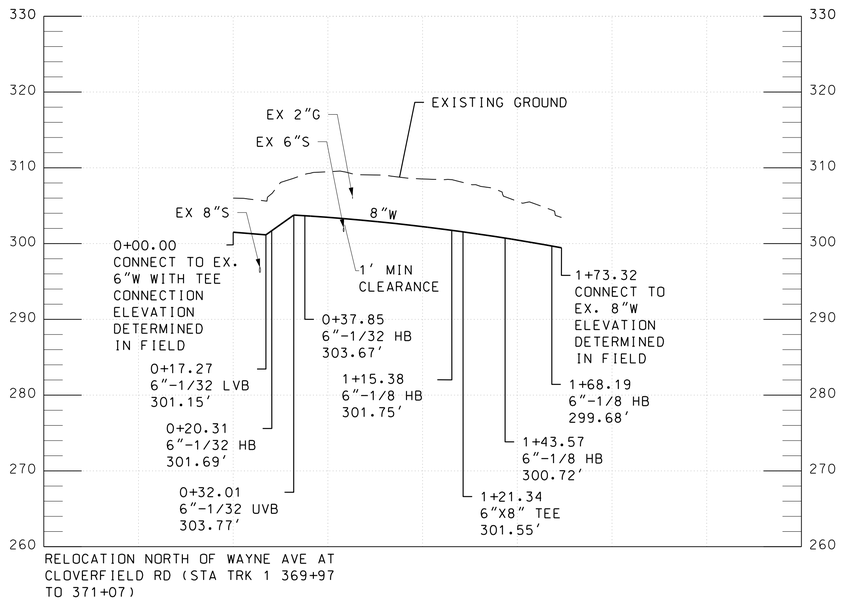
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 347+71 TO STA TRK 1 369+99

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-195
SHEET NO. 202 OF 259

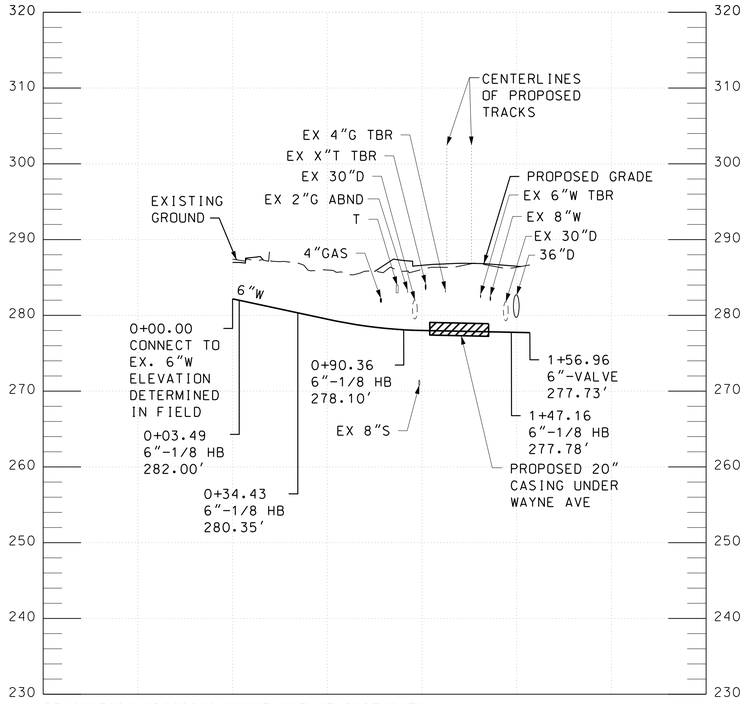
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3211.dgn
12/11/2013



RELOCATION NORTH OF WAYNE AVE AT CLOVERFIELD RD (STA TRK 1 369+97 TO 371+07)

RELOCATED 8" WATER

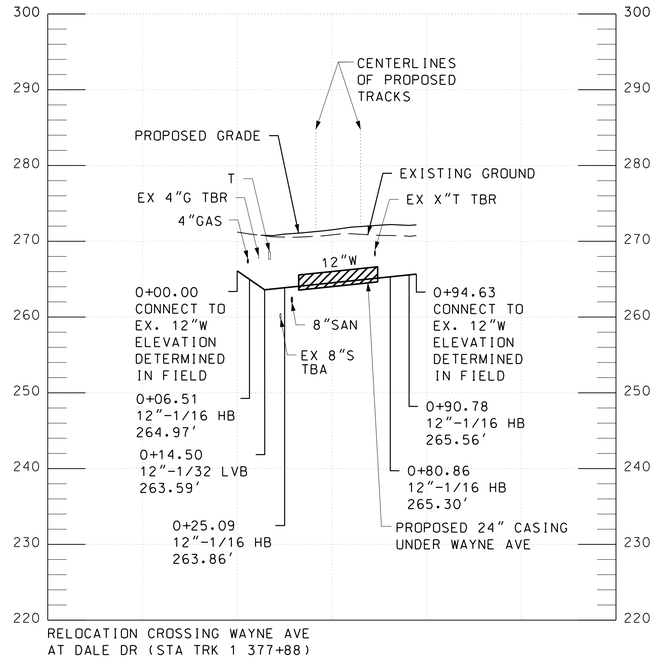
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING WAYNE AVE AT DARTMOUTH AVE (STA TRK 1 373+36 TO 374+15)

RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING WAYNE AVE AT DALE DR (STA TRK 1 377+88)

RELOCATED 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 369+97 TO STA TRK 1 377+88

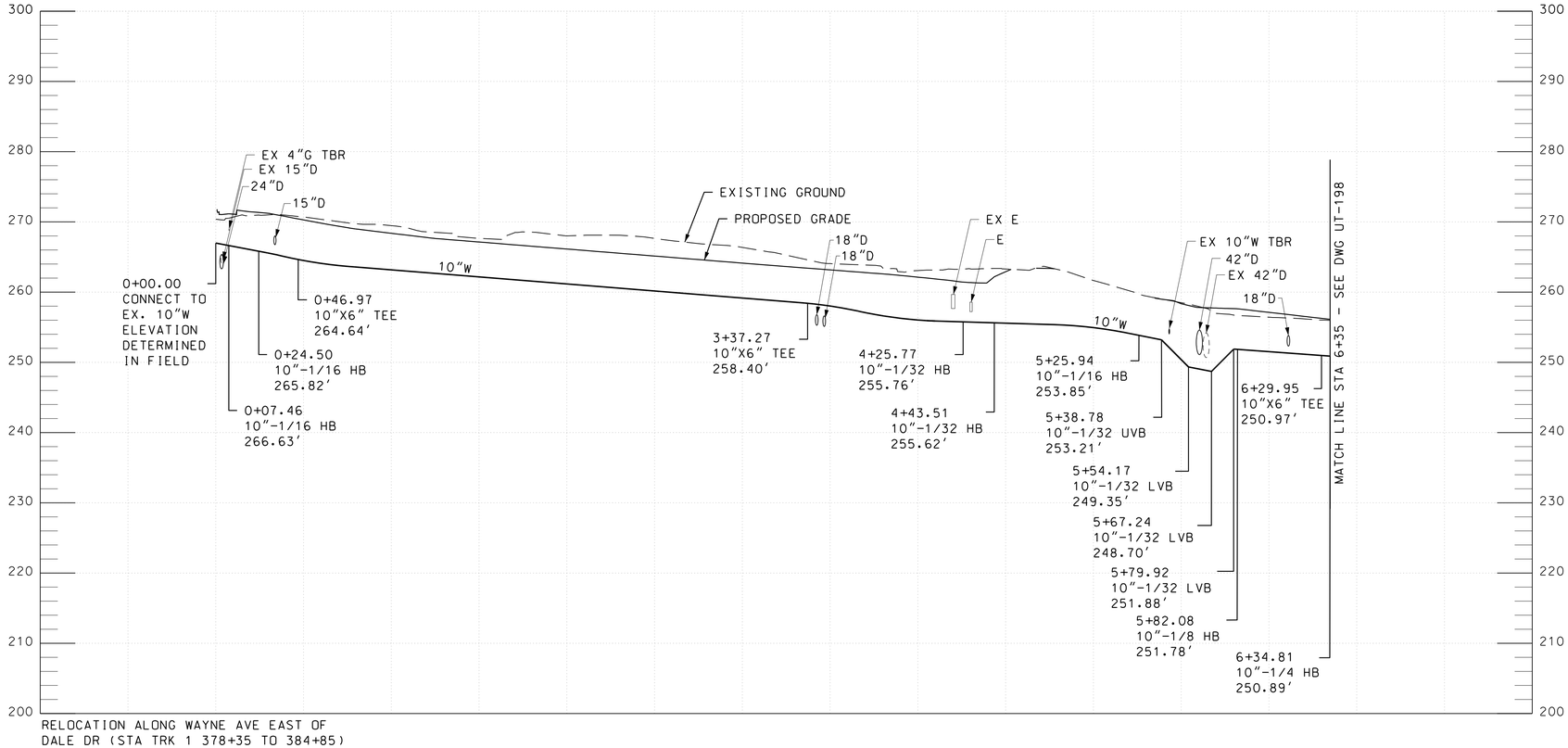
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-196

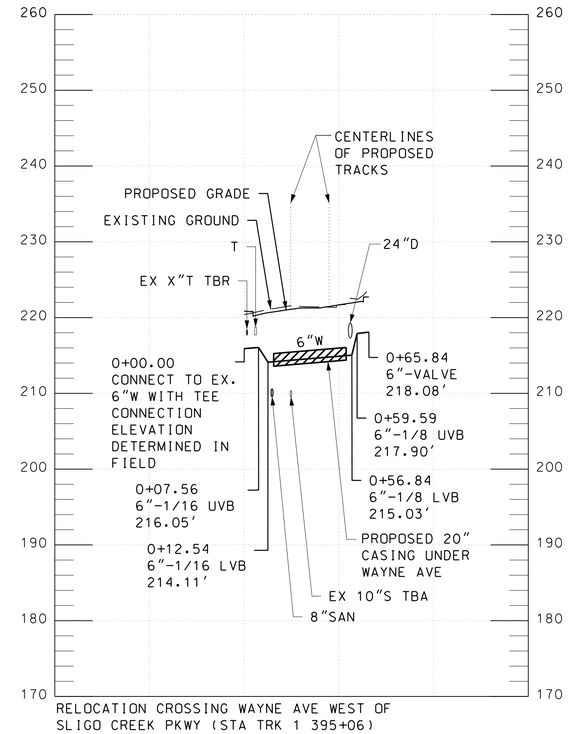
SHEET NO.
203 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3212.dgn
12/11/2013



RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
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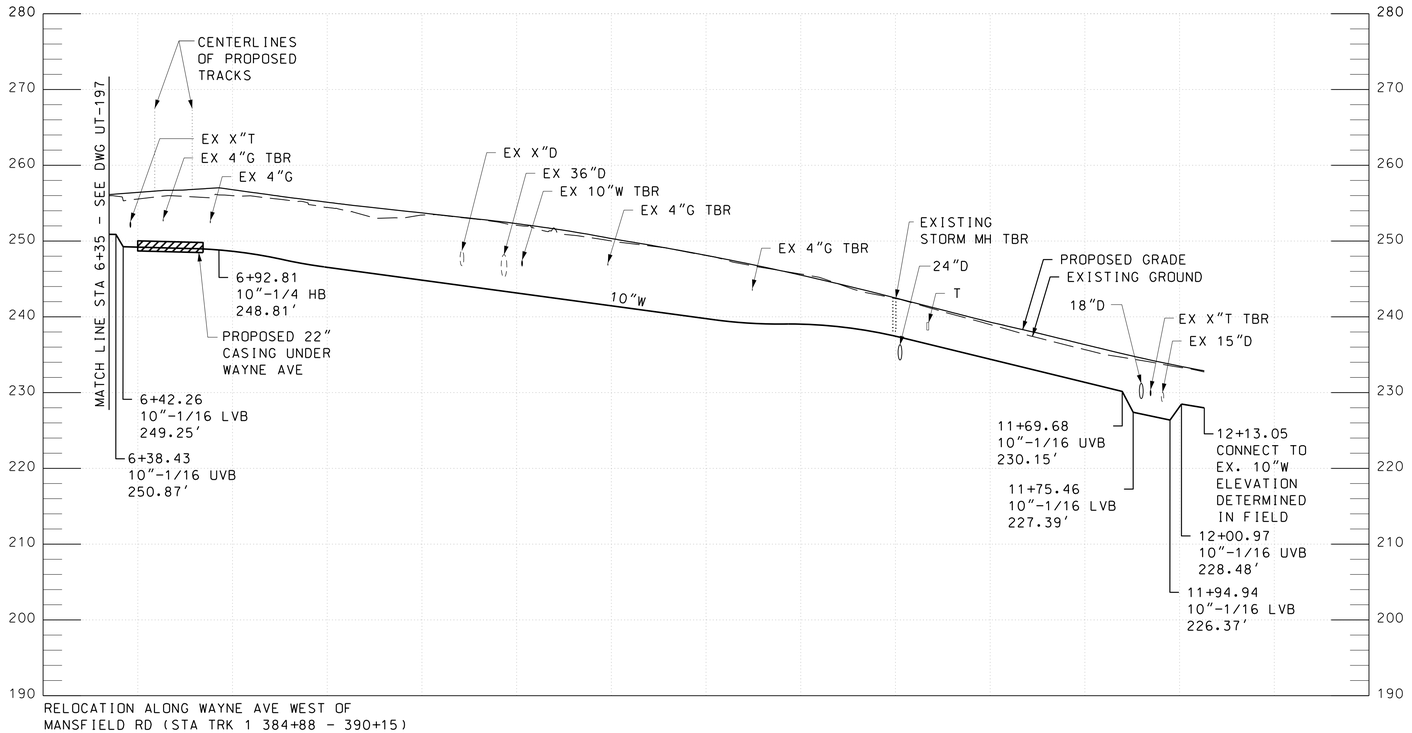
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 378+35 TO STA TRK 1 395+06

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-197
SHEET NO. 204 OF 259

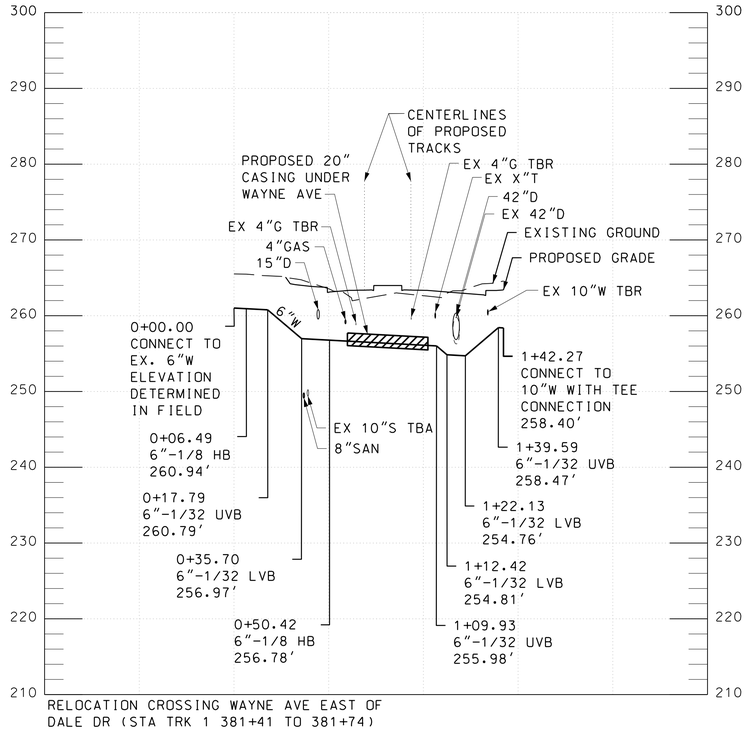
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3213.dgn
12/11/2013



RELOCATION ALONG WAYNE AVE WEST OF MANSFIELD RD (STA TRK 1 384+88 - 390+15)

RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION CROSSING WAYNE AVE EAST OF DALE DR (STA TRK 1 381+41 TO 381+74)

RELOCATED 6" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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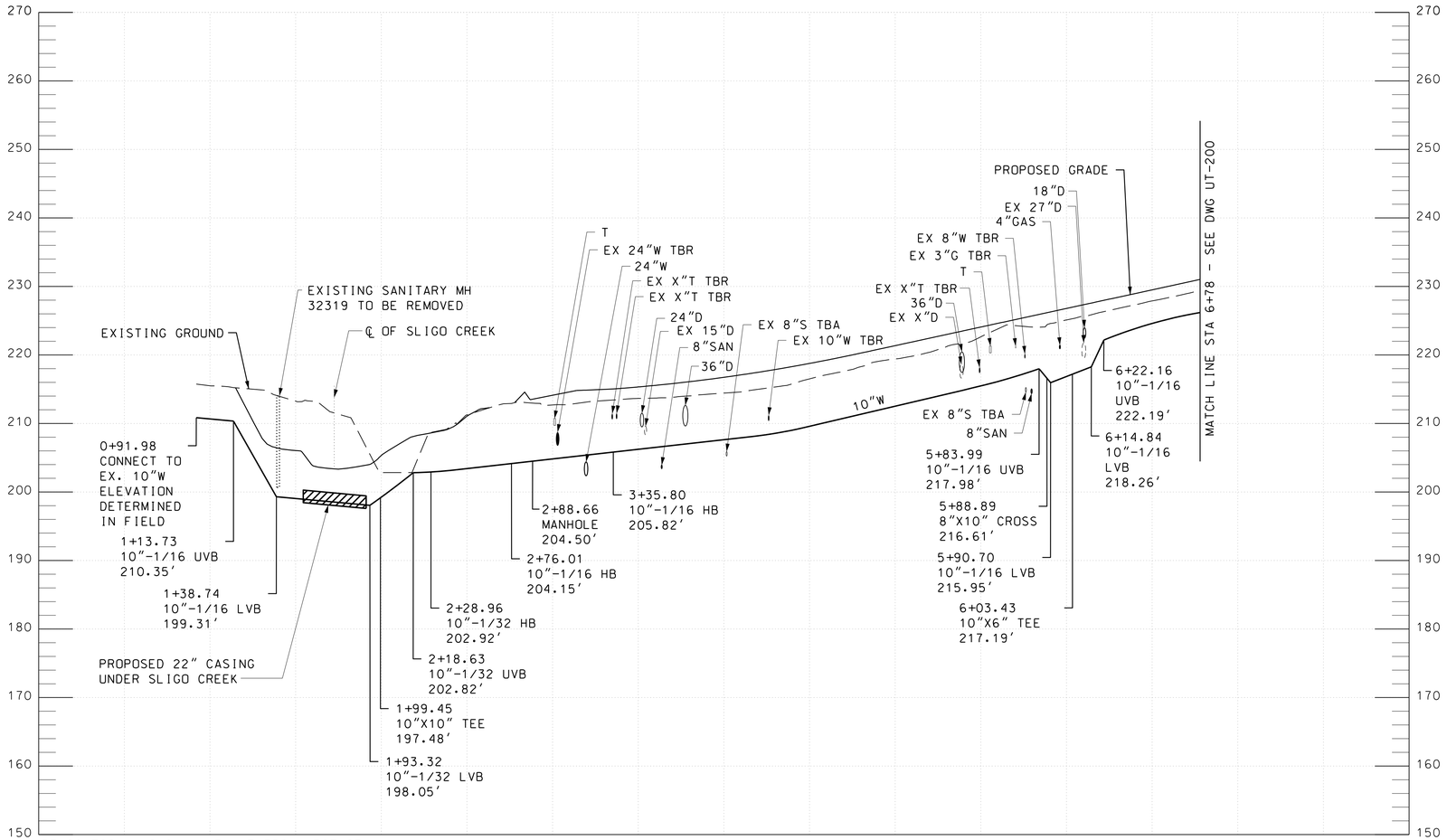
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 381+41 TO STA TRK 1 390+15
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-198
SHEET NO. 205 OF 259

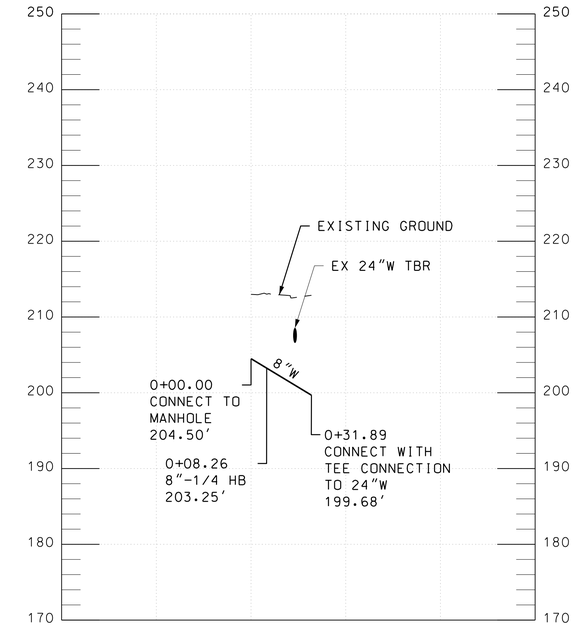
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3214.dgn
12/11/2013



RELOCATION ALONG WAYNE AVE FROM WEST OF SLIGO CREEK PKWY TO EAST OF MANCHESTER RD (STA TRK 1 396+35 TO 402+00)

RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION SOUTH OF WAYNE AVE AND WEST OF SLIGO CREEK PKWY (STA TRK 1 398+21 - 398+46)

RELOCATED 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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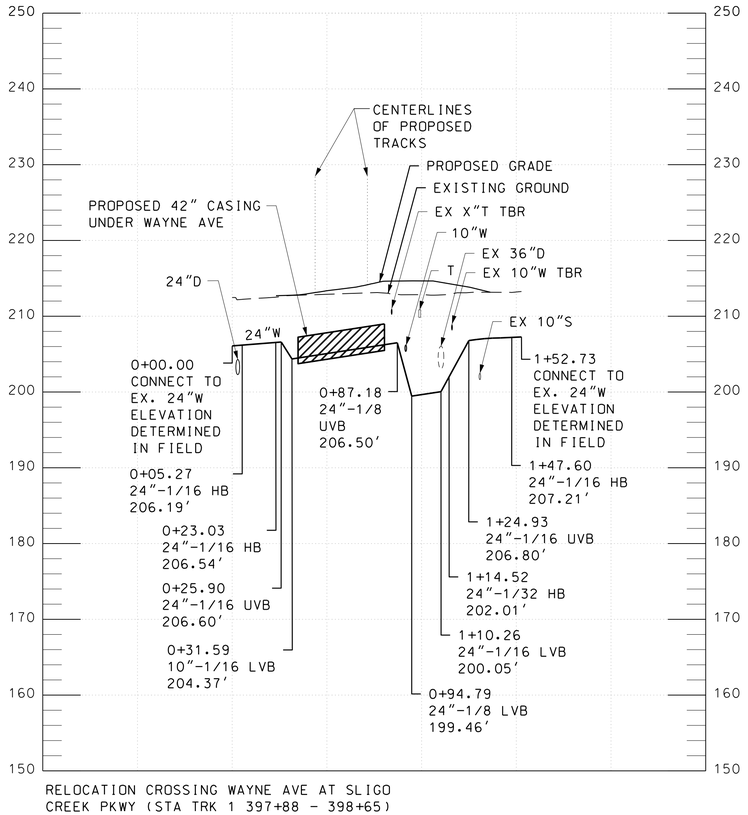
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 396+35 TO STA TRK 1 402+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-199
SHEET NO. 206 OF 259

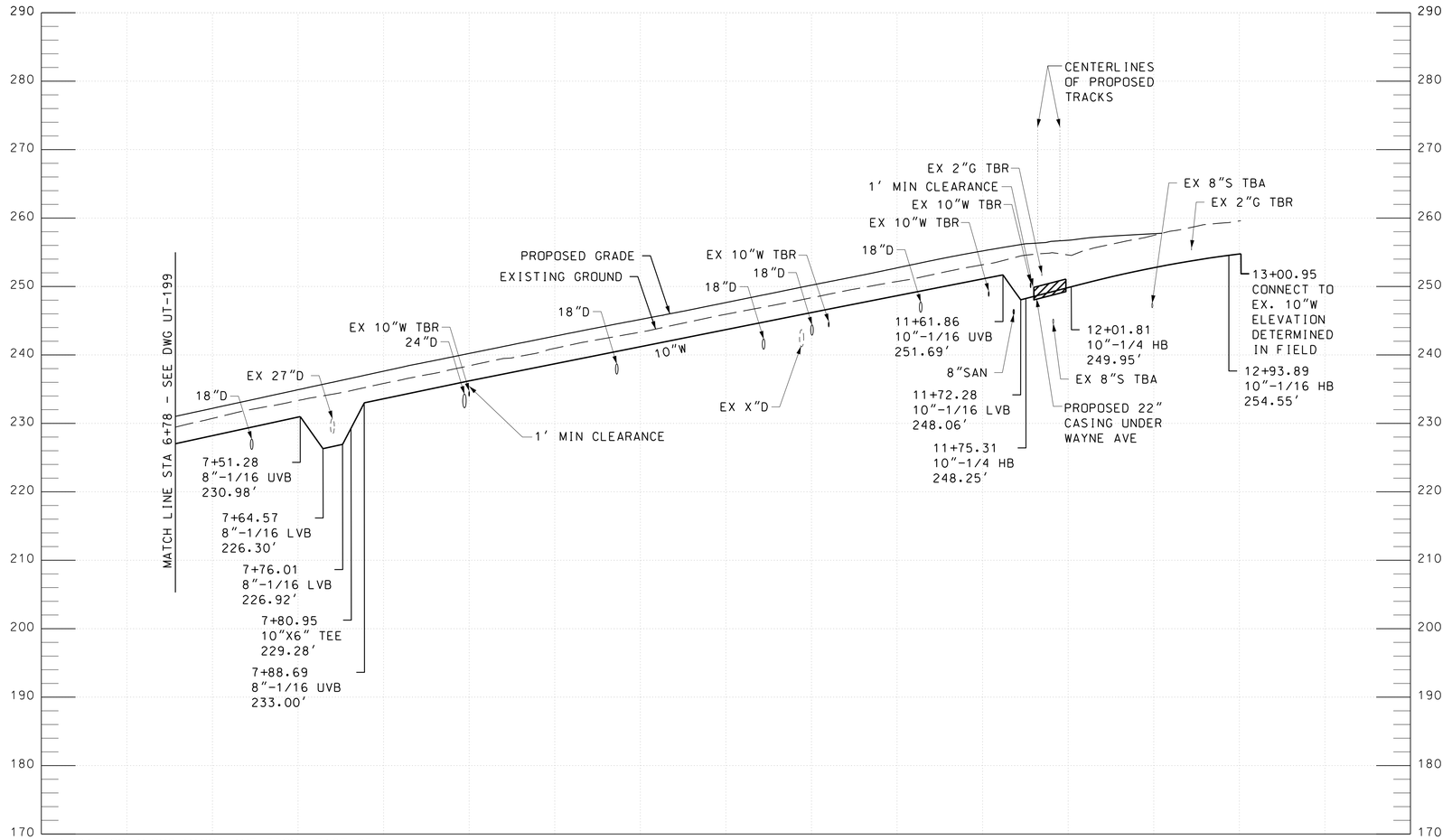
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3215.dgn
12/11/2013



RELOCATION CROSSING WAYNE AVE AT SLIGO CREEK PKWY (STA TRK 1 397+88 - 398+65)

RELOCATED 24" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG WAYNE AVE FROM EAST OF MANCHESTER RD TO WEST OF MANCHESTER PL (STA TRK 1 402+00 TO 407+81)

RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DRAWN
CHECK
APPR

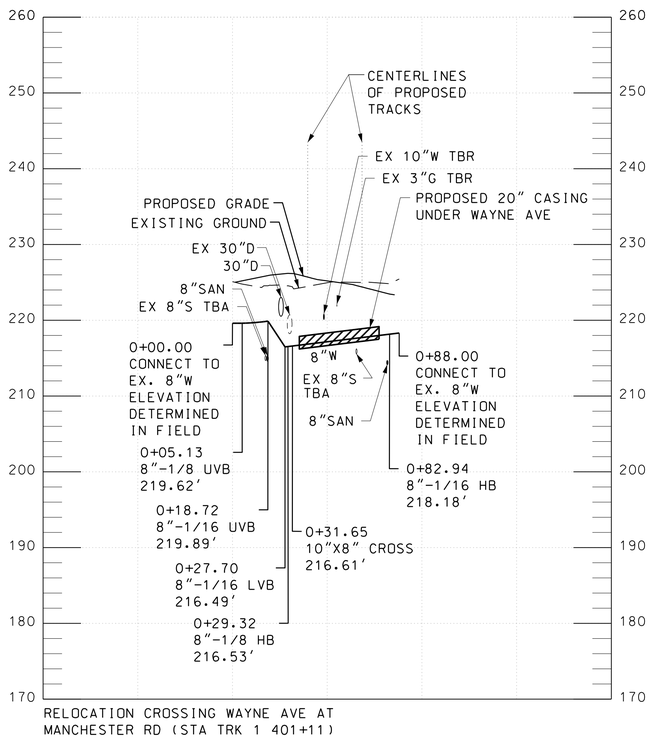
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 397+88 TO STA TRK 1 407+81

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-200
SHEET NO. 207 OF 259

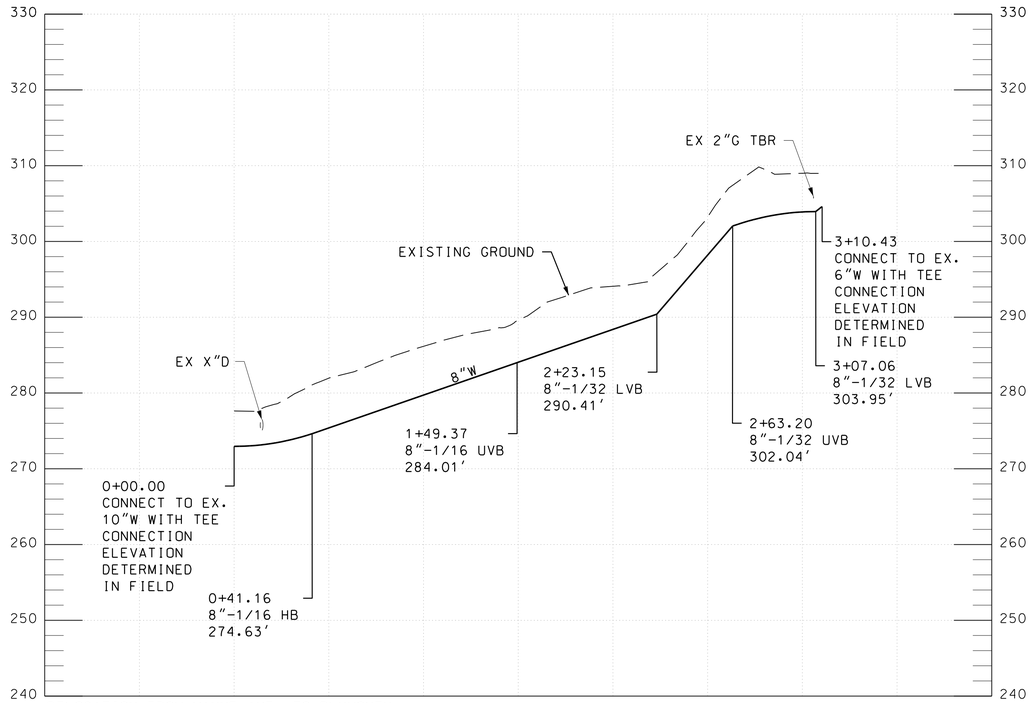
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3216.dgn
12/11/2013



RELOCATION CROSSING WAYNE AVE AT MANCHESTER RD (STA TRK 1 401+11)

RELOCATED 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION FROM WAYNE AVE TO PLYMOUTH ST (STA TRK 1 410+61 TO 411+82)

RELOCATED 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
DRAWN
CHECK
APPR

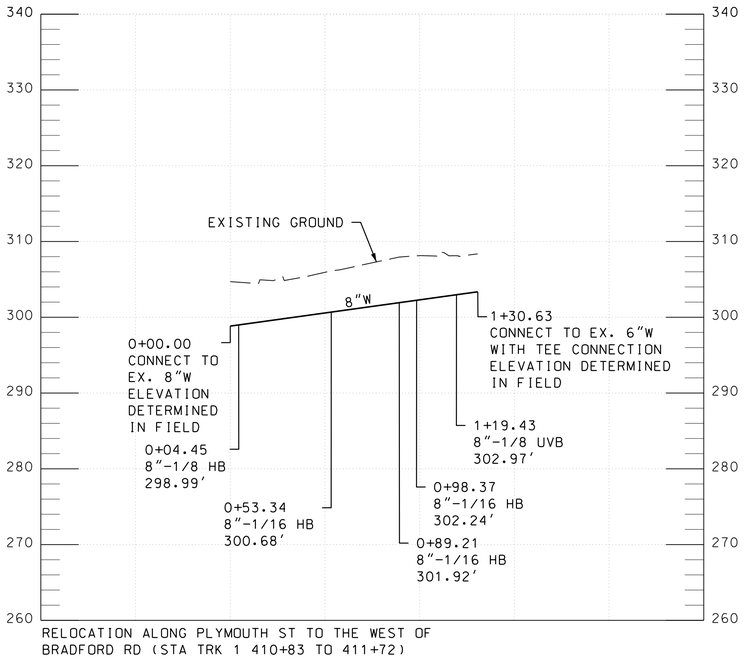
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 401+11 TO STA TRK 1 411+82

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-201
SHEET NO. 208 OF 259

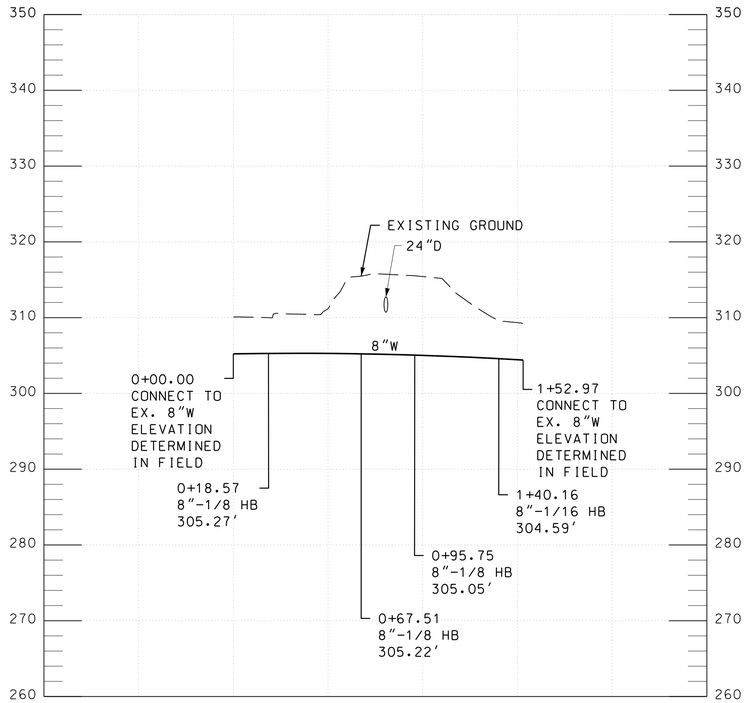
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 03\Utilities\Sheet Files\Profiles\Water\1042pUT3217.dgn
12/11/2013



RELOCATION ALONG PLYMOUTH ST TO THE WEST OF
BRADFORD RD (STA TRK 1 410+83 TO 411+72)

RELOCATED 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG ARLISS ST TO THE EAST OF
FLOWER AVE (STA TRK 1 420+87 TO 421+81)

RELOCATED 8" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 410+83 TO STA TRK 1 421+81

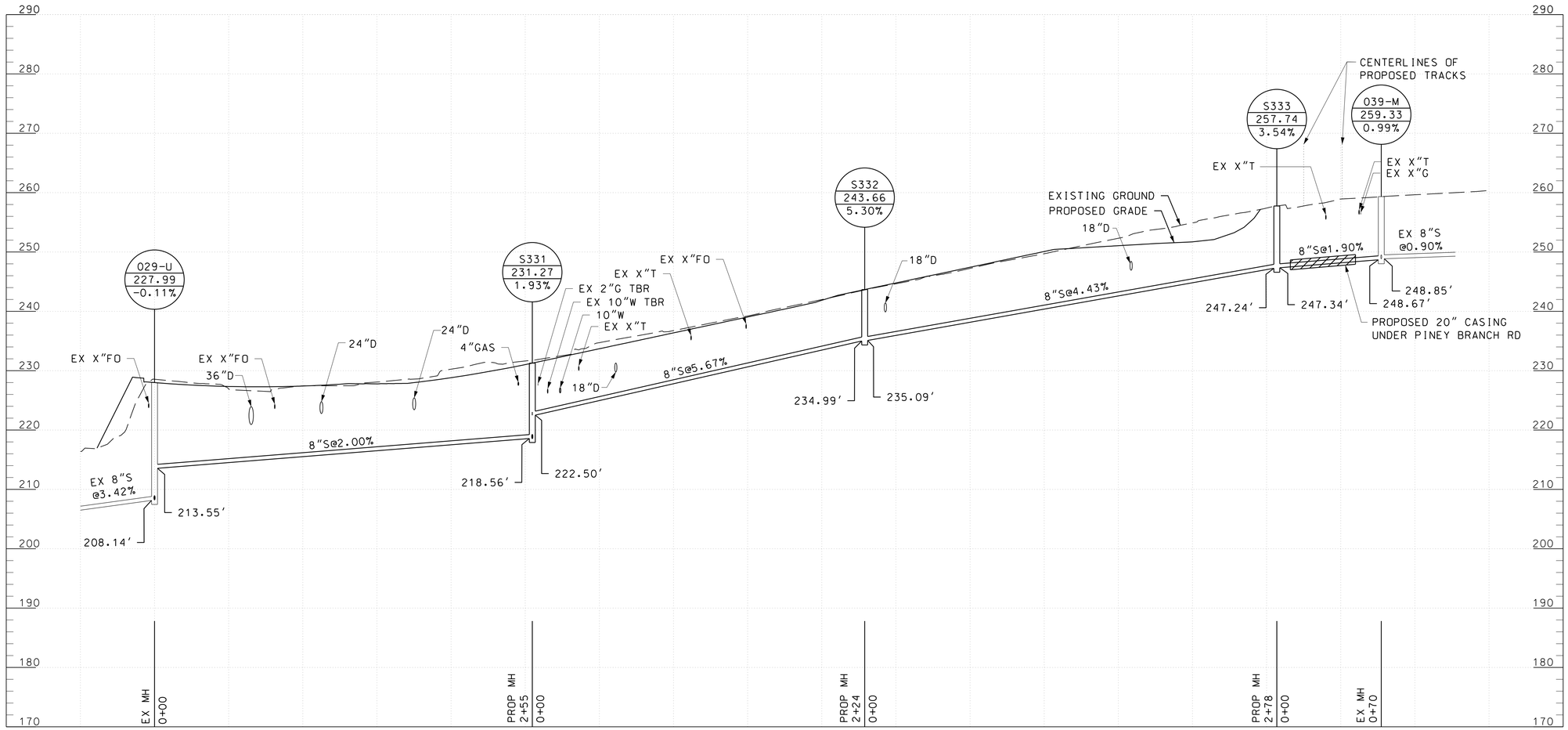
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-202

SHEET NO.
209 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 04\Utilities\Sheet Files\Profiles\Water\1042pUT4201.dgn
12/11/2013



RELOCATION ON PINEY BRANCH RD FROM
WEST OF BARRON ST TO UNIVERSITY
BLVD (STA TRK 1 442+95 TO 450+95)

RELOCATED 8" SANITARY SEWER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

SANITARY SEWER PROFILE
STA TRK 1 442+95 TO STA TRK 1 450+95

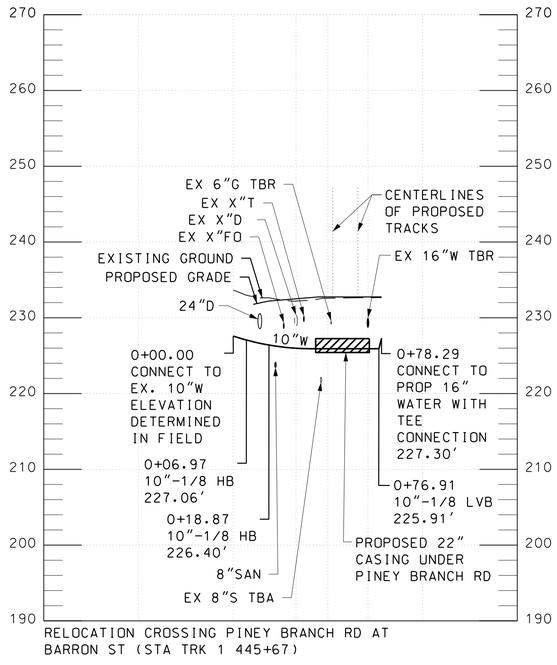
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220

DRAWING NO.
UT-203

SHEET NO.
210 OF 259

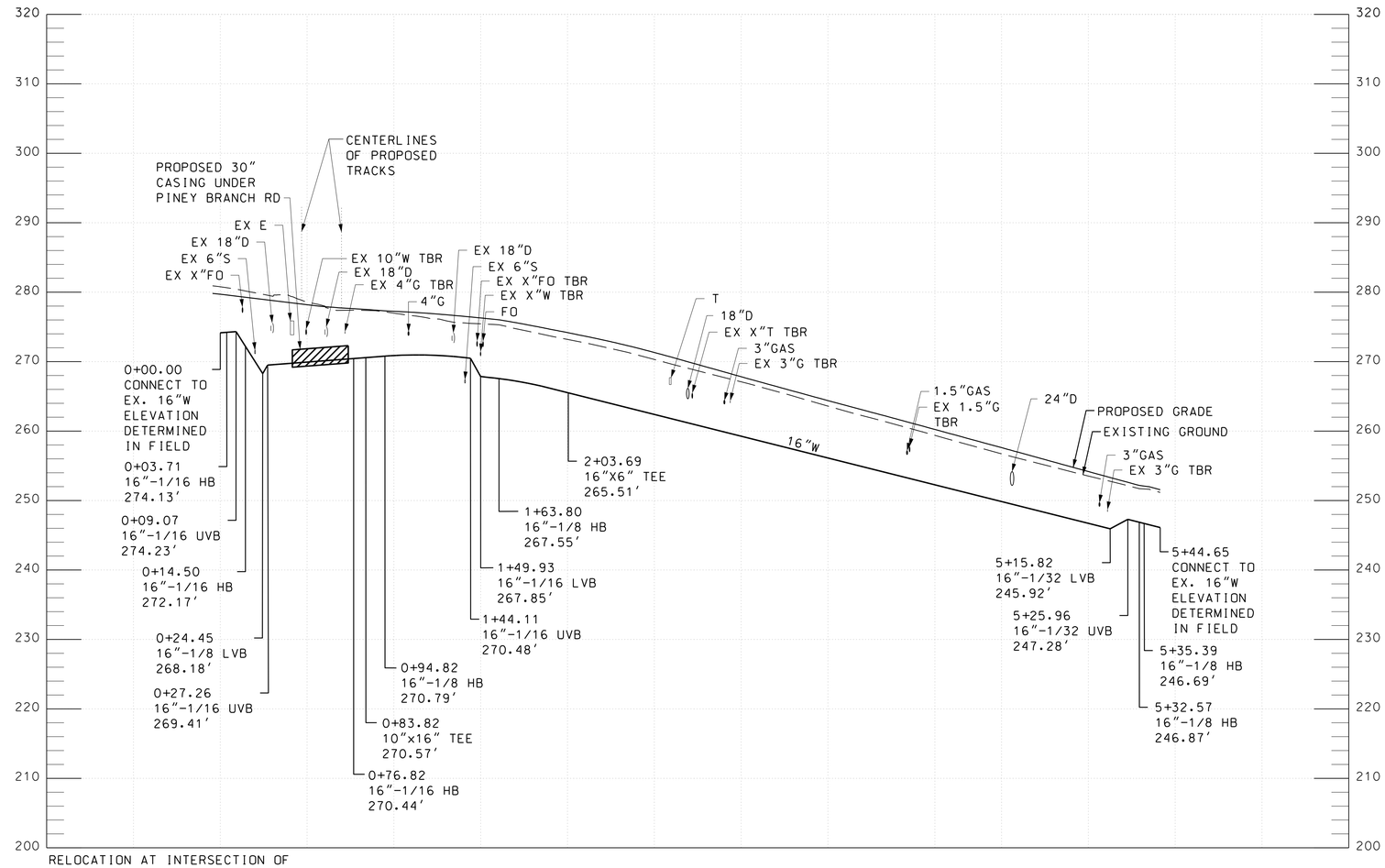
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Profiles\Sanitary\1042pUT5201.dgn
12/11/2013



RELOCATION CROSSING PINEY BRANCH RD AT BARRON ST (STA TRK 1 445+67)

RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION AT INTERSECTION OF ARLISS ST AND PINEY BRANCH RD (STA TRK 1 433+96 TO 438+82)

RELOCATED 16" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

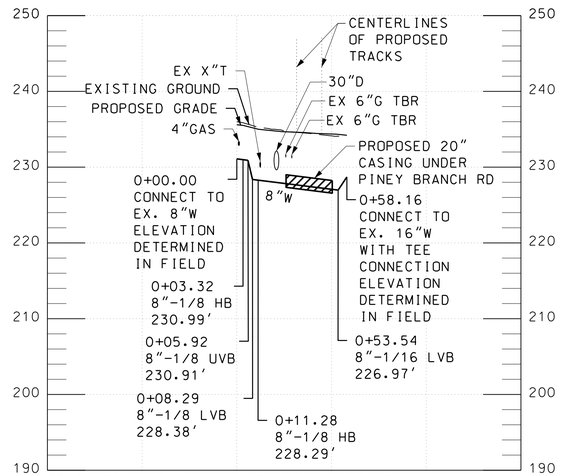
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 433+96 TO STA TRK 1 445+67

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-204
SHEET NO. 211 OF 259

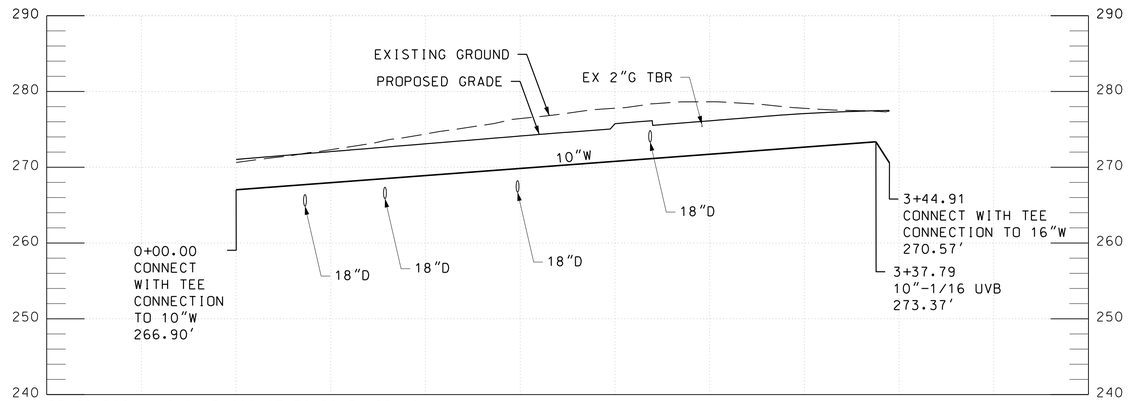
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Profiles\1042pUT5202.dgn
12/11/2013



RELOCATION CROSSING PINEY BRANCH RD AT GARLAND AVE (STA TRK 1 441+30)

RELOCATED 8" WATER

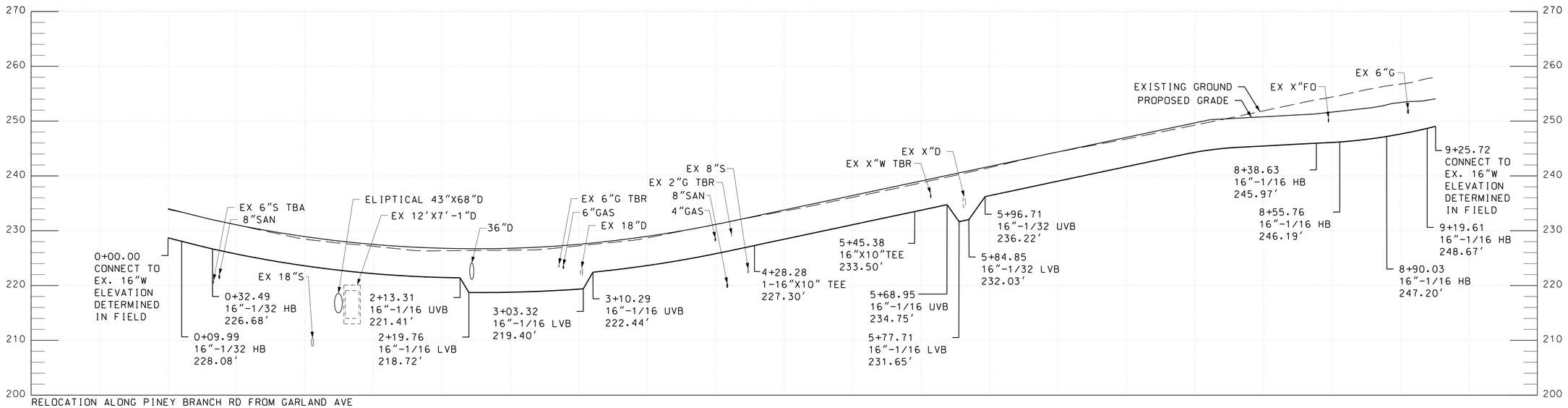
SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG ARLISS ST TO PINEY BRANCH RD (STA TRK 1 430+50 TO 434+07)

RELOCATED 10" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'



RELOCATION ALONG PINEY BRANCH RD FROM GARLAND AVE TO UNIVERSITY BLVD (STA TRK 1 441+38 TO 450+50)

RELOCATED 16" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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License No. Expiration Date

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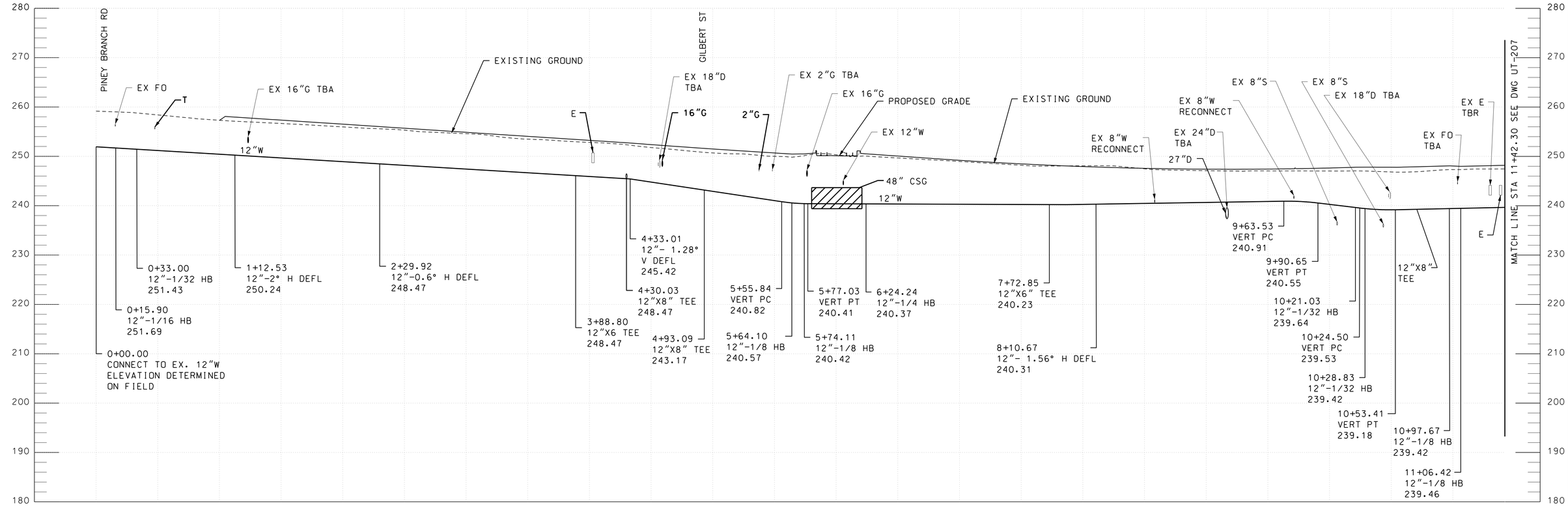
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 430+50 TO STA TRK 1 450+50
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-205
SHEET NO. 212 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 05\Utilities\Sheet Files\Profiles\Water\1042pUT5203.dgn
12/11/2013



RELOCATION ALONG UNIVERSITY BLVD
FROM PINEY BRANCH RD TO CARROLL AVE
(STA TRK 1 451+25 TO 472+50)

RELOCATED 12" WATER

SCALE: HORZ 1" = 40'
VERT 1" = 10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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MTA Maryland

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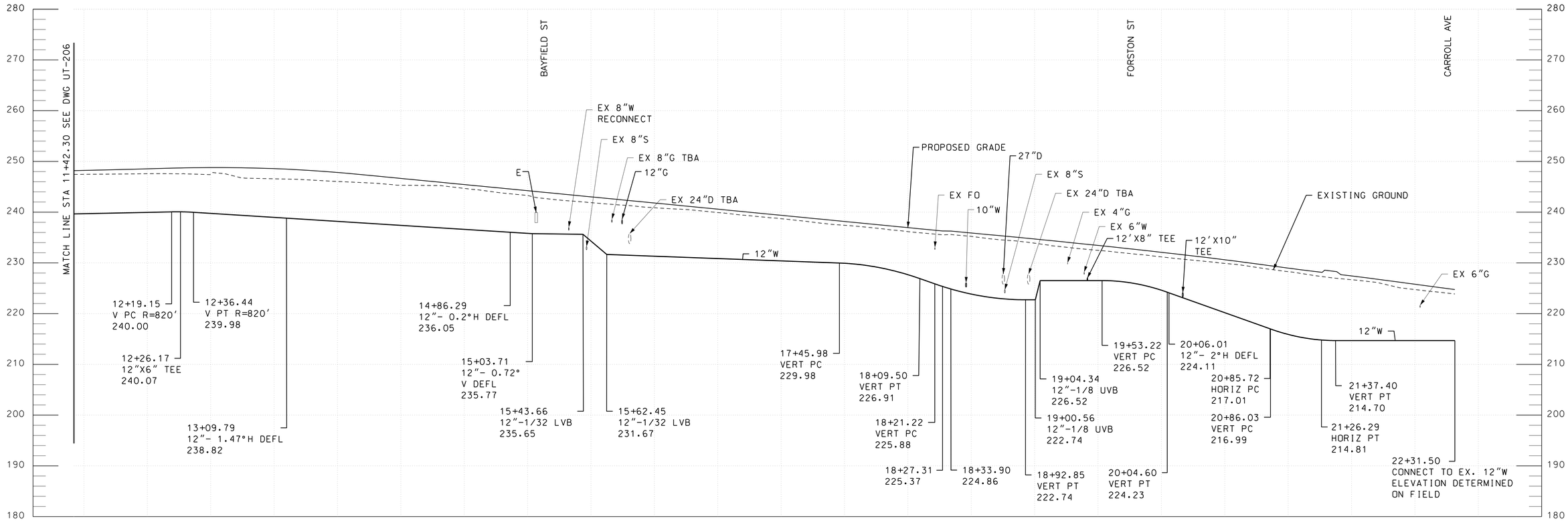
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 451+25 TO STA TRK 1 472+50
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-206
SHEET NO.
213 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6201.dgn
12/11/2013



RELOCATION ALONG UNIVERSITY BLVD FROM
PINEY BRANCH RD TO CARROLL AVE
(STA TRK 1 451+25 TO 472+50)

RELOCATED 12" WATER

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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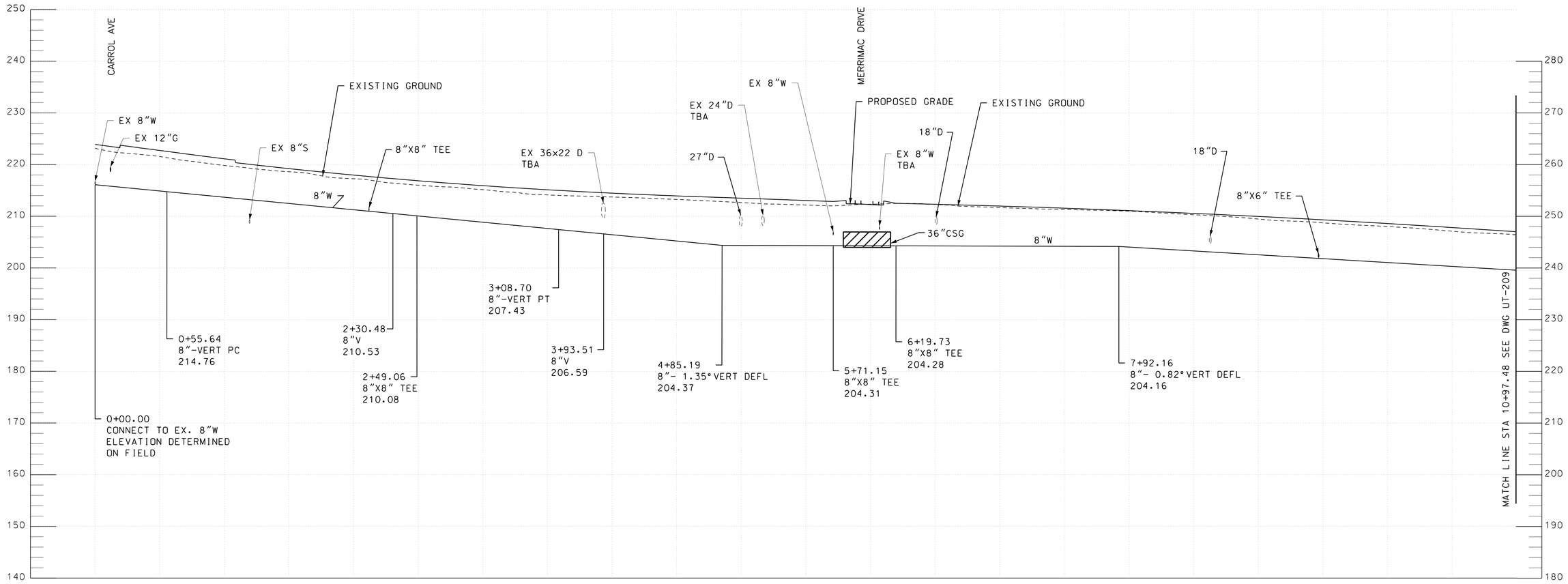
DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 451+25 TO STA TRK 1 472+50
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. UT-207
SHEET NO. 214 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6202.dgn
12/11/2013



RELOCATION ALONG UNIVERSITY BLVD FROM
CARROLL AVE TO NEW HAMPSHIRE AVE
(STA TRK 1 472+85 TO 495+00)

RELOCATED 8" WATER

SCALE: HORIZ 1"=40'
VERT 1"=10'

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESIGN
DRAWN
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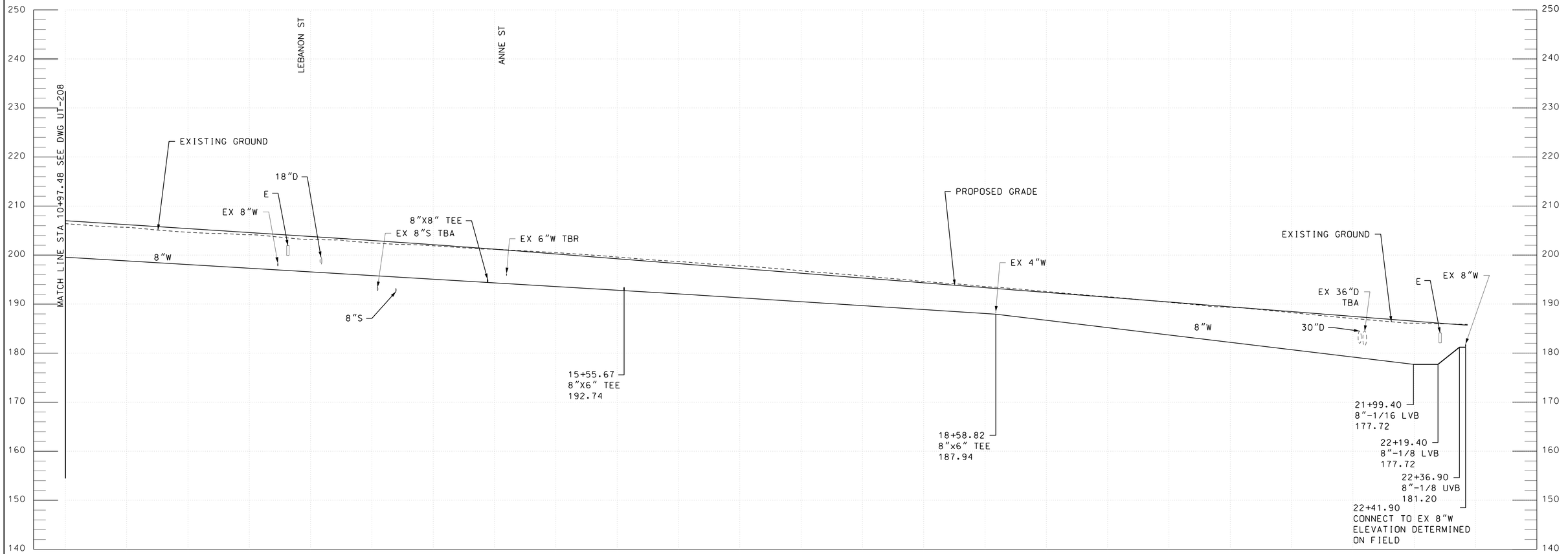
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 472+85 TO STA TRK 1 495+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-208
SHEET NO.
215 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6203.dgn
12/11/2013



RELOCATION ALONG UNIVERSITY BLVD FROM
CARROLL AVE TO NEW HAMPSHIRE AVE
(STA TRK 1 472+85 TO 495+00)

RELOCATED 8" WATER

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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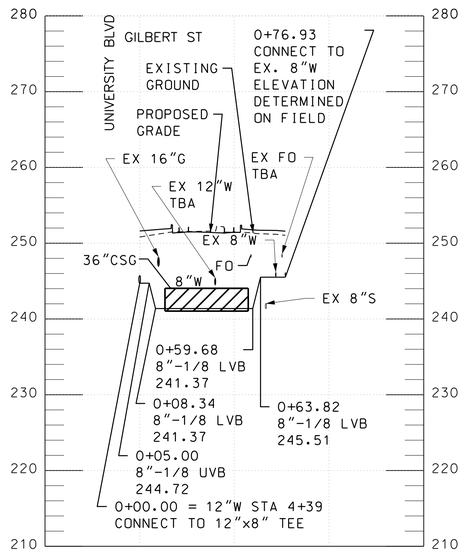
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 472+85 TO STA TRK 1 495+00
DATE: DECEMBER 2013 SCALE: AS SHOWN

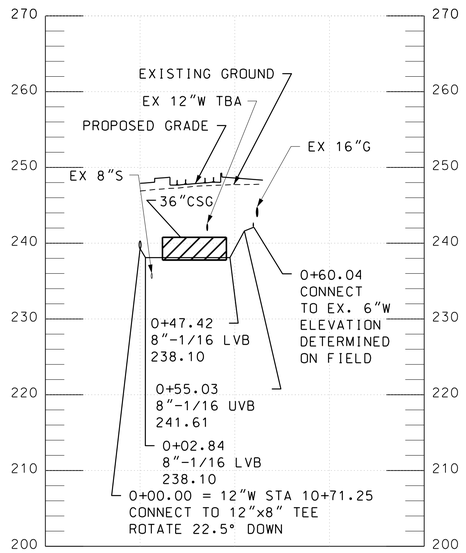
CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-209
SHEET NO.
216 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6204.dgn
12/11/2013



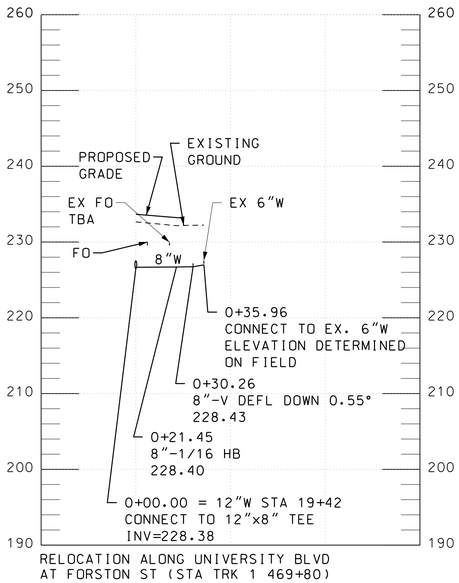
RELOCATION ALONG UNIVERSITY BLVD AT GILBERT ST (STA TRK 1 455+84)

RELOCATED 8" WATER



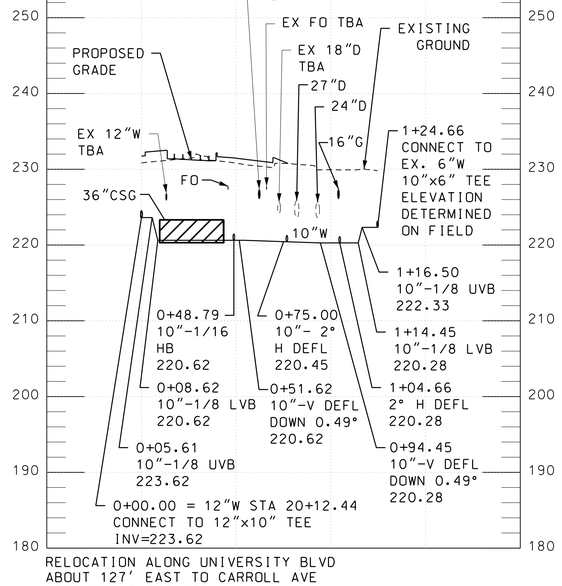
RELOCATION ALONG UNIVERSITY BLVD ABOUT 90' EAST TO SEEK LN (STA TRK 1 461+12)

RELOCATED 8" WATER



RELOCATION ALONG UNIVERSITY BLVD AT FORSTON ST (STA TRK 1 469+80)

RELOCATED 8" WATER



RELOCATION ALONG UNIVERSITY BLVD ABOUT 127' EAST TO CARROLL AVE (STA TRK 1 470+50)

RELOCATED 10" WATER

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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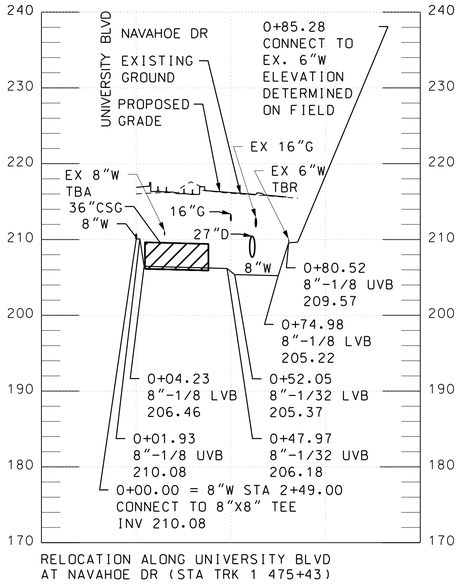
DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 455+84 TO STA TRK 1 470+50
DATE: DECEMBER 2013 SCALE: AS SHOWN

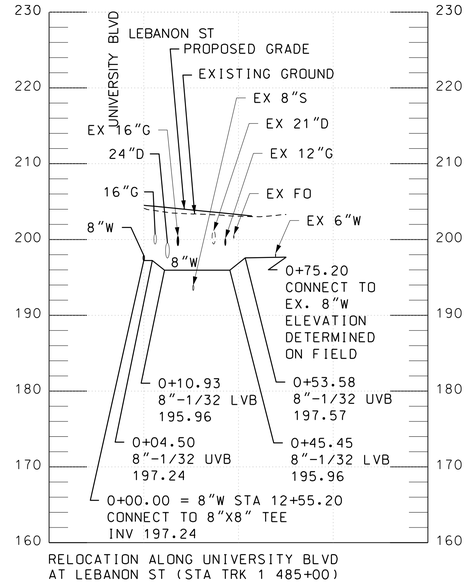
CONTRACT NO. T-1042-0220
DRAWING NO. UT-210
SHEET NO. 217 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6205.dgn
12/11/2013



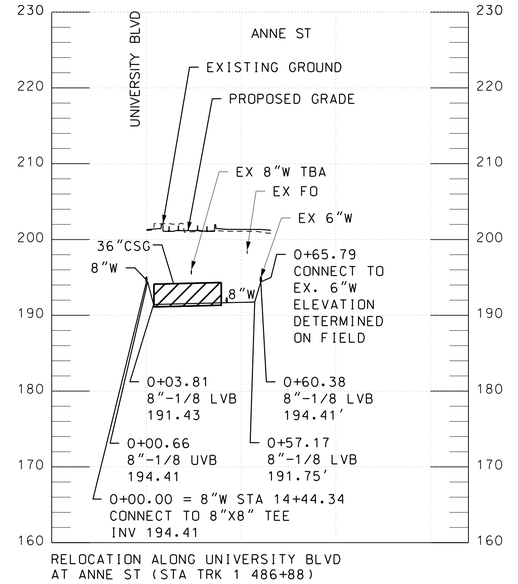
RELOCATION ALONG UNIVERSITY BLVD AT NAVAHOE DR (STA TRK 1 475+43)

RELOCATED 8" WATER



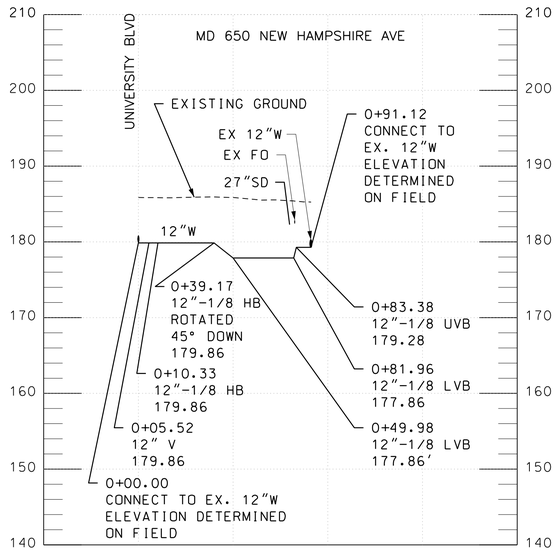
RELOCATION ALONG UNIVERSITY BLVD AT LEBANON ST (STA TRK 1 485+00)

RELOCATED 8" WATER



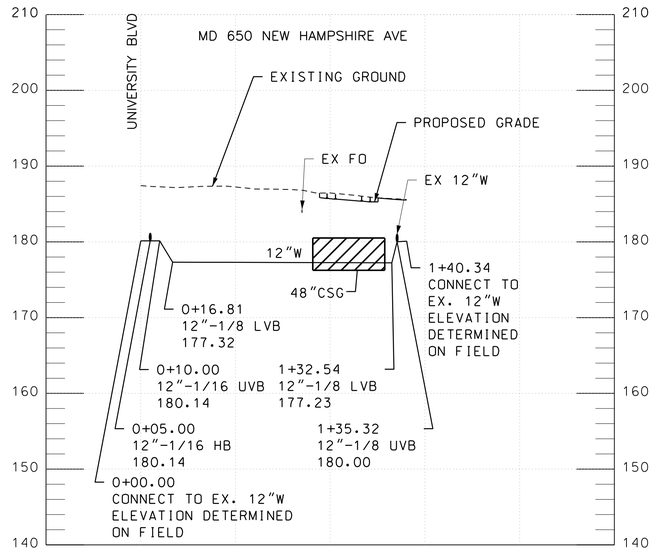
RELOCATION ALONG UNIVERSITY BLVD AT ANNE ST (STA TRK 1 486+88)

RELOCATED 8" WATER



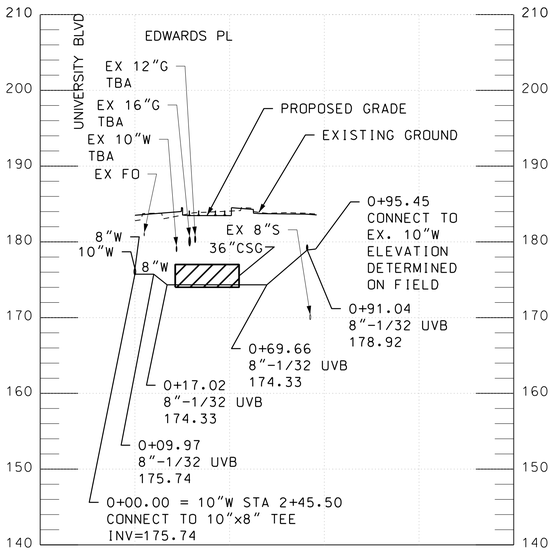
RELOCATION ALONG UNIVERSITY BLVD AT NEW HAMPSHIRE AVE (STA TRK 1 496+40)

RELOCATED 12" WATER



RELOCATION ALONG UNIVERSITY BLVD AT NEW HAMPSHIRE AVE (STA TRK 1 496+36)

RELOCATED 12" WATER



RELOCATION ALONG UNIVERSITY BLVD AT EDWARDS PL (STA TRK 1 501+82)

RELOCATED 8" WATER

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

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DESGN
DRAWN
CHECK
APPR

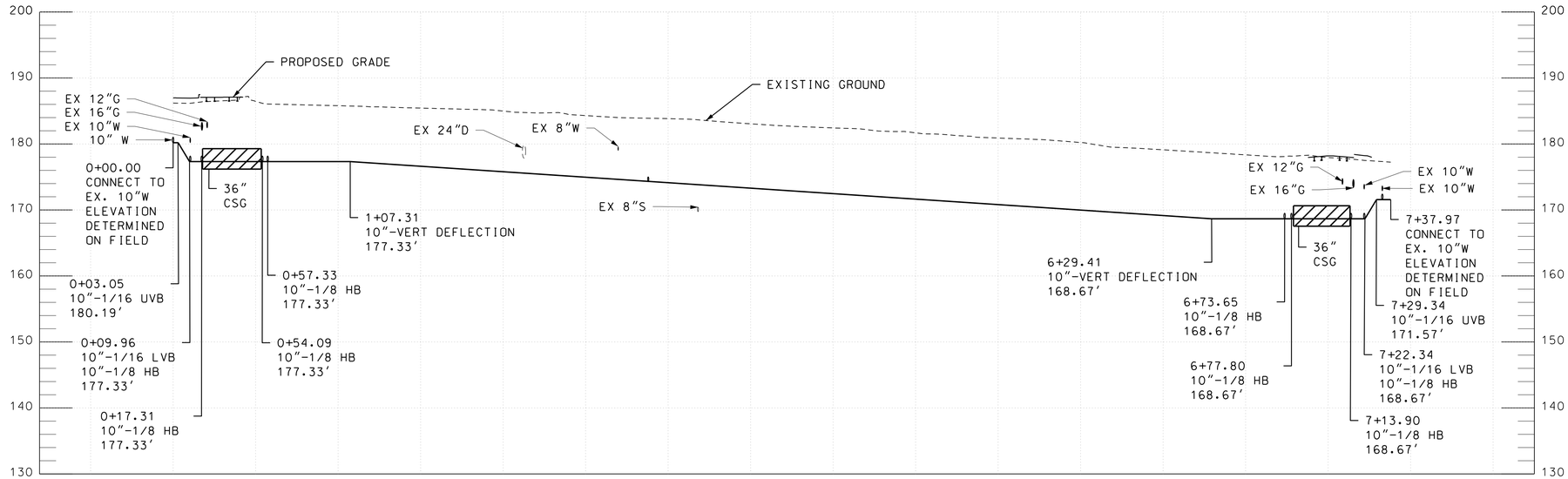
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

WATER LINE PROFILE
STA TRK 1 486+00, 456+07 AND 406+12

DATE: DECEMBER 2013 SCALE: AS SHOWN

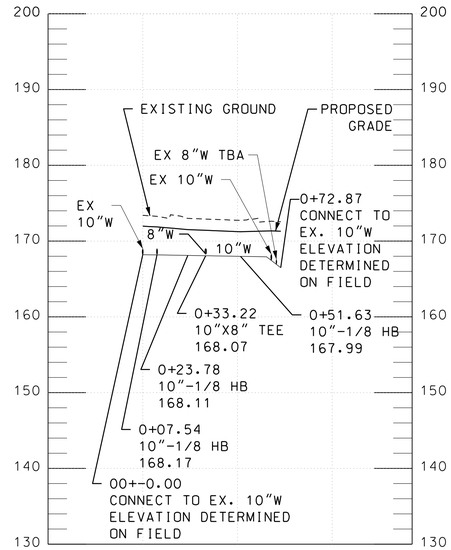
CONTRACT NO. T-1042-0220
DRAWING NO. UT-211
SHEET NO. 218 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6206.dgn
12/11/2013



RELOCATION ALONG UNIVERSITY BLVD
BETWEEN NEW HAMPSHIRE AVE AND 14TH AVE
(STA TRK 1 499+46 TO 506+00)

RELOCATED 10" WATER



RELOCATION ALONG UNIVERSITY BLVD
ABOUT 300' WEST TO 14TH AVE
(STA TRK 1 508+79 TO 509+40)

RELOCATED 10" WATER

40' 0 40' 80'
HORIZONTAL SCALE: 1"=40'

10' 0 10' 20'
VERTICAL SCALE: 1"=10'

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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
WATER LINE PROFILE
STA TRK 1 499+46 TO STA TRK 1 509+40
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO.
T-1042-0220
DRAWING NO.
UT-212
SHEET NO.
219 OF 259

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Utilities\Sheet Files\Profiles\1042pUT6207.dgn
12/11/2013