

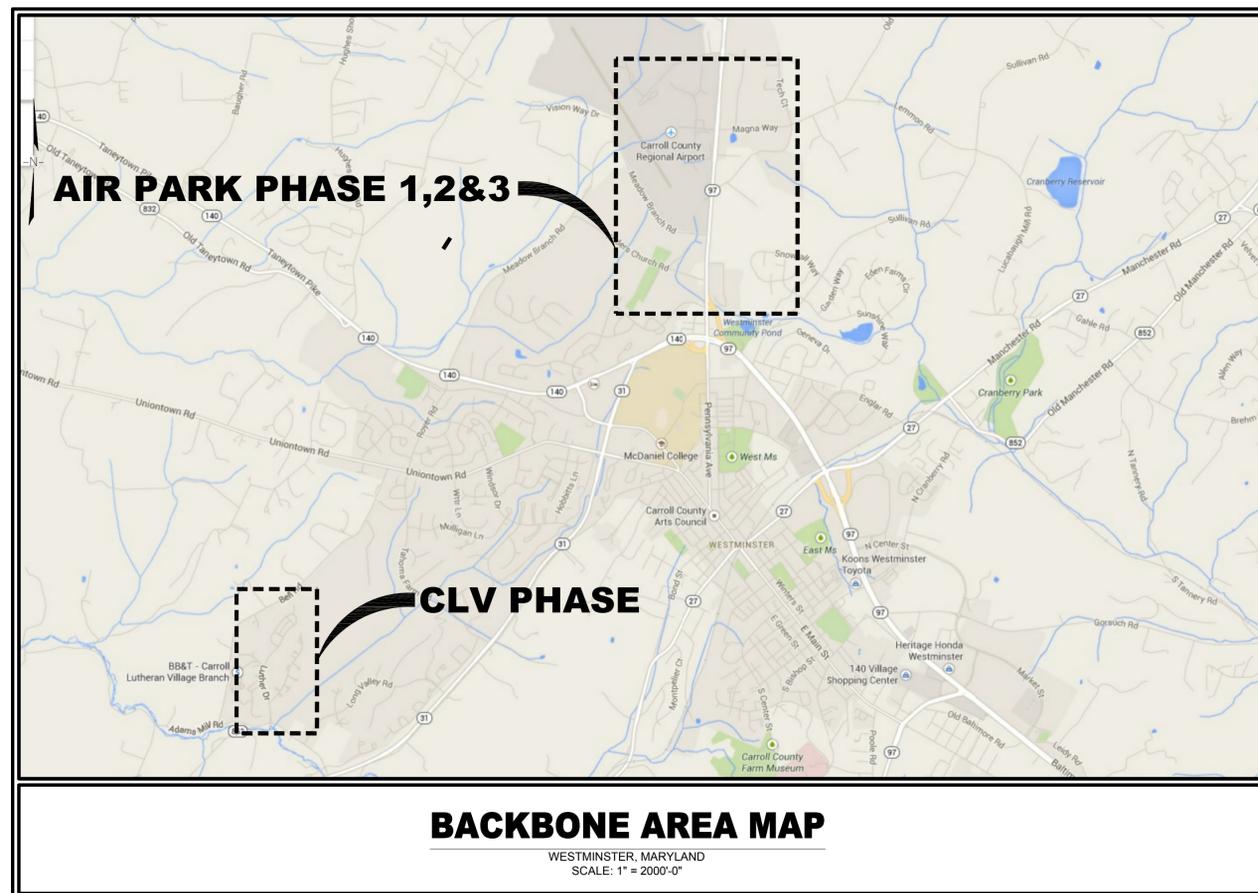


JOB NO:

CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C

****MAYOR****
KEVIN R. UTZ

****COUNCIL MEMBERS****
DR. ROBERT WACK - PRESIDENT
DENNIS FRAZIER
PAUL WHITSON
SUZANNE P. ALBERT
TONY CHIAVACCI



APPROVAL BLOCK	
DIRECTOR OF PUBLIC WORKS: JEFFERY D. GLASS	DATE: _____

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-2-14	STAND ALONE COVER SHEET
8	05-14-14	CLIENTS COMMENTS REVISED
7	05-06-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-28-14	CLIENTS COMMENTS REVISED
2	02-20-14	CLIENTS COMMENTS REVISED

DRAWN BY:	JWP
CHECKED BY:	
SCALE:	NOTED
JOB NO:	M214030.00

DRAWING TITLE:

TITLE SHEET

DRAWING SHEET:

T-1

**JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C**

SHEET NO. 1 OF 1

David L. Randolph

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

MAYOR
 KEVIN R. UTZ

COUNCIL MEMBERS
 DR. ROBERT WACK - PRESIDENT
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 PAUL WHITSON
 SAZANNE P. ALBERT
 TONY CHIAVACCI



SOIL CONSERVATION DISTRICT
 THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.
 APPROVED _____ CARROLL S.C.D./DATE

OWNER/DEVELOPER
 I CERTIFY THAT THIS PLAN OF SOIL & SEDIMENT CONTROL WILL BE IMPLEMENTED TO THE FULLEST EXTENT, AND ALL STRUCTURES WILL BE INSTALLED TO THE DESIGN SPECIFICATION AS SPELLED OUT IN THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE EVALUATION BY THE CARROLL SOIL CONSERVATION DISTRICT PERSONNEL AND COOPERATING AGENCIES.

DEVELOPER _____ DATE _____

PRINTED NAME OF DEVELOPER _____

DEVELOPER COMPANY NAME _____

DEVELOPER PHONE NUMBER _____

ENGINEER
 I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL IS DESIGNED WITH MY PERSONAL KNOWLEDGE OF THIS SITE CONDITION AND HAS BEEN DESIGNED TO THE STANDARDS AND SPECIFICATIONS ADOPTED BY CARROLL SOIL CONSERVATION DISTRICT.

_____ ENGINEER/DATE

SCHEDULE OF REVISIONS		
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CDS)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CDS)

DRAWN BY: JWP
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SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
TITLE SHEET

DRAWING SHEET:
T-1

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

SHEET NO. 1 OF 12

JOB SUMMARY

THIS JOB CONSISTS OF RUNNING FIBER OPTIC CABLES ALONG THE EXISTING RIGHT OF WAY IN NEW UNDERGROUND FACILITIES STARTING AT 1000 LITTLESTOWN PIKE.

THE PRIMARY ROUTE OF THIS JOB IS AS FOLLOWS:

PATH 1:
 1. NORTH ALONG LUTHER DRIVE
 2. NORTH ALONG WELLER WAY

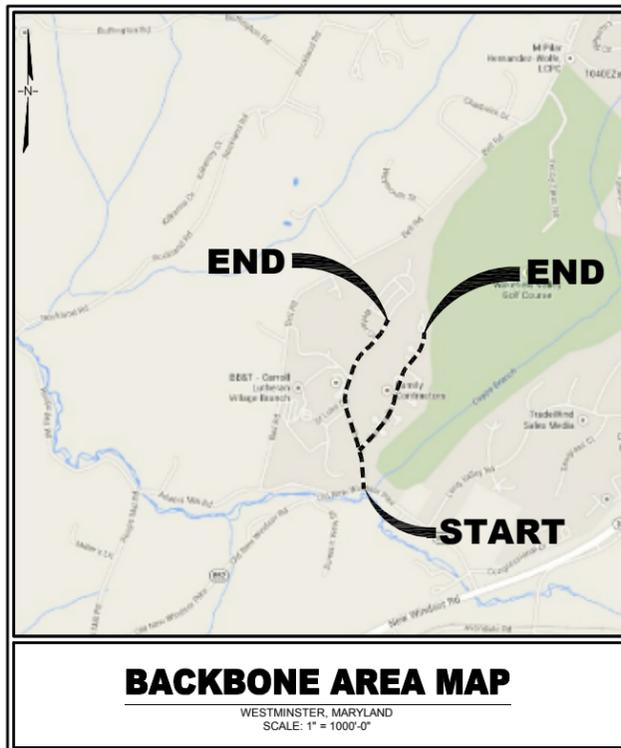
PATH 2:
 1. NORTH ALONG LUTHER DRIVE
 2. NORTHEAST ALONG FAIRWAY DRIVE

THIS ROUTE CONTAINS 1.51 MILES OF FIBER OPTIC CABLE, COVERING A TOTAL LINEAR PATH OF 1.15 MILES.

JOB MATERIAL SUMMARY

QUANTITY:	DESCRIPTION:
4,149.2 FT.	288 COUNT BURIED FIBER OPTIC CABLE
3,326.4 FT.	144 COUNT BURIED FIBER OPTIC CABLE
3,898.4 FT.	48 COUNT BURIED FIBER OPTIC CABLE
50	25' FIBER COILS
1	50' FIBER COIL
14	100' FIBER COILS
33	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
54	16"x22"x18" TYPE 4 TIER 22 HANDHOLE
9	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.



SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
SH-1	SHEET INDEX
GN-1	GENERAL NOTES
GN-2	SYMBOLS, ABBREVIATIONS & DETAILS
GN-3	CONTACT SHEET
SP-1	OLD NEW WINDSOR ROAD & LUTHER DRIVE
SP-2	LUTHER DRIVE & FAIRWAY DRIVE
SP-3	LUTHER DRIVE & WELLER CIRCLE
SP-4	WELLER WAY & SHIVER LANE
SP-5	FAIRWAY DRIVE & GREENBRIAR CLOSE
SP-6	OLD NEW WINDSOR ROAD & CONGRESSONAL DRIVE
A-1	WASTE WATER PLAN



LUTHER DRIVE

SHEET SP4

SHEET SP3

SHEET SP2

SHEET SP1

OLD NEW WINDSOR ROAD

FAIRWAY DRIVE

SHEET SP5

SHEET SP6

LEGEND:

NO FLOOD PLAIN IN THIS SECTION

NO WETLANDS IN THIS SECTION



ctc

SCHEDULE OF REVISIONS

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0	01-30-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

SHEET INDEX

DRAWING SHEET:

SH-1

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

SHEET NO. 2 OF 12



SCHEDULE OF REVISIONS

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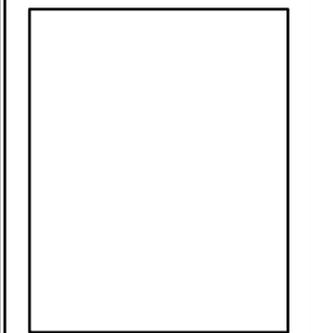
GENERAL NOTES

DRAWING SHEET:

GN-1

**JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE**

SHEET NO. 3 OF 12



MAINTENANCE PROGRAM:

1. ALL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGE STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY TO AVOID DAMAGE TO DOWNSTREAM PROPERTY.
2. AS AREAS ARE BROUGHT TO EITHER GRADE OR SUBGRADE THEY SHOULD BE STABILIZED BY EITHER PLACING GRAVEL SUBBBASE OR BY SEEDING AS EARLY AS POSSIBLE.
3. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF SLOPE AT THE END OF EACH DAY OF OPERATION.
4. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN FIVE (5) DAYS OF COMPLETION OF GRADING.

GENERAL LAND CONSERVATION NOTES:

1. FOLLOW 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, VOL. 4.
2. TRENCHES SHALL BE COMPACTED, SEEDED, AND MULCHED. AT THE END OF EACH WORK DAY.
3. ALL TEMPORARY EARTH BERMS, DIVERSION DIKES, SILT DAMS, AND SOIL STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY IS REQUIRED.
4. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SILT TRAPS MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
5. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO THE RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED UPON THE APPROVAL OF CARROLL COUNTY, AND ALL DENUDED AREAS SHALL BE STABILIZED WITH VEGETATION.
6. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPEN AT ONE TIME.
7. EXCAVATION MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
8. EFFLUENT FROM THE DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
9. WHERE CONSTRUCTION VEHICLES ACCESS ROUTES, INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH WORK DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

CONSTRUCTION NOTES:

1. VERIFICATION OF THE LOCATION OF EXISTING UTILITY CROSSINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
2. CALL THE LOCAL UTILITY ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY OF ANY CONSTRUCTION. 1-800-257-7777
3. MAINTAIN A 12" VERTICAL SEPARATION BETWEEN PROPOSED CONDUIT AND OTHER UTILITIES.
4. CONDUIT CAPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER INSTALLATION.
5. INSTALL ALL DUCTS WILL BE PROOFED USING A MANDRILL ¼" SMALLER THAN THE PIPE ID PVC AS SHOWN ON DRAWINGS.
6. THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 36".
7. MAXIMUM CABLE INSTALLATION TENSION WILL NOT EXCEED 600 POUNDS. A 600 POUND BREAKAWAY SWIVEL WILL BE USED DURING PULLING.
8. THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR WILL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO CITY OF WESTMINSTER GOVERNMENT WITHIN 14 DAYS OF COMPLETION OF THE WORK.
11. CONDUITS WILL BE TERMINATED ABOVE THE MIDPOINT OF MANHOLE.
12. PLACE 100 FEET OF SLACK TO BE LEFT ON ALL CABLE ENDS AT SPLICE/LATERAL POINTS. AT ALL OTHER HANDHOLES LEAVE 50 FEET OF SLACK.
13. BURIED POWER LINES: HAND DIG AS REQUIRED.
14. BURIED FIBER OPTIC TELEPHONE CABLES: HAND DIG AS REQUIRED.
15. BURIED CATV CABLES: HAND DIG AS REQUIRED.
16. BURIED GAS LINES: HAND DIG AS REQUIRED.
17. NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT ON EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.

GENERAL NOTES:

1. ALL WORK WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, OSHA, NESC, DOT, RPA, ETC. GENERAL NOTES WILL APPLY TO ALL DRAWINGS.
2. THE CONTRACTOR WILL NOTIFY (IF APPLICABLE) THE ADJACENT PROPERTY OWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION.
3. FOLLOW MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES FOR TRAFFIC CONTROL.
4. PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED ON TO PRIVATE PROPERTY.
5. NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
6. NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORKING PERIODS.
7. NO EQUIPMENT OR MATERIALS MAY BE STORED ON SIDEWALKS.
8. EXCAVATED MATERIAL WILL BE TEMPORARILY PLACED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP IMMEDIATELY.
9. TEMPORARY ROADWAY RESTORATION WILL CONSIST OF NON-SHRINKABLE GROUT AND MATCH THE EXISTING ASPHALT CAP THICKNESS.
10. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
11. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE SPECIFICATIONS AND STANDARDS.

EROSION SEDIMENT CONTROL NOTES:

1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE 'MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL' BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
3. FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE B-4-4 AND B-4-5.
4. MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A.1.B FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1
6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN B-4-2
7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
9. NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THEN 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION
10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

SURFACE FEATURES / AERIAL UTILITIES - LINETYPES & SYMBOLS:

EXISTING:

- AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C.
- PLENUM INNERDUCT
- TS---TS---TS--- TRAFFIC SIGNAL
- GAS---GAS---GAS--- GAS
- V---V---V--- WATER
- SS---SS---SS--- SANITARY SEWER
- ST---ST---ST--- STORM SEWER
- BGE---BGE---BGE--- BGE POWER
- VER---VER---VER--- VERIZON LINE
- AP---AP---AP--- ALLEGANY POWER
- CENTERLINE
- CURB---CURB--- CURB
- EP---EP---EP--- EDGE OF PAVEMENT
- |||||||| RAIL ROAD TRACKS
- RIGHT OF WAY
- FENCE
- SIDEWALK

- ⊗ JOINT-USE / POWER POLE
- ⊗ UTILITY POLE
- ⊗ CONCRETE POLE
- ⊗ STEEL POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT/BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ← DOWN GUY
- ↙ S/W ANCHOR & GUY
- ↖ ANCHOR & GUY
- ↗ ANCHOR
- ⊕ VGR GROUND
- TP TEST PIT
- ⊗ FIBER OPTIC CABLE MARKER
- ⊗ TELCO PED
- ⊗ CATV VAULT
- ⊗ CATV PED
- PROPERTY CORNER
- ⊗ FOUND MONUMENT
- ⊗ DRAIN/INLET
- ⊗ WATER METER
- FH⊕ FIRE HYDRANT
- ⊗ WATER VALVE
- ⊗ W WATER HANDHOLE / VAULT
- ⊗ CATCH BASIN
- ⊗ S SANITARY SEWER MANHOLE
- ⊗ SD STORM SEWER MANHOLE
- ⊗ G GAS VALVE
- ⊗ G GAS METER
- ⊗ G GAS HANDHOLE / VAULT

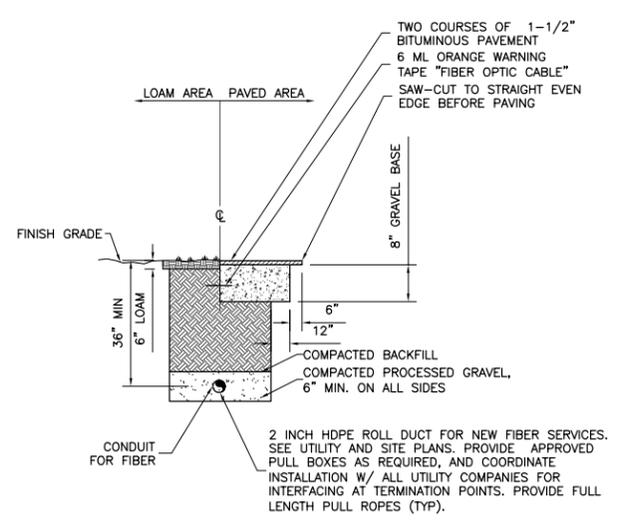
ABBREVIATIONS:

- E/W EQUIPPED WITH
- E/O EAST OF
- F.O.C. FIBER OPTIC CABLE
- N/O NORTH OF
- O/S OFFSET
- S/O SOUTH OF
- W/O WEST OF
- AB ABANDONED
- CA CABLE
- D/W DRIVEWAY
- DG DOWNGUY
- R/W RIGHT OF WAY
- S/W SIDEWALK
- C/L CENTERLINE
- E/P EDGE OF PAVEMENT
- B/C BACK OF CURB
- OD OUTSIDE DIAMETER
- PL PLACE
- SL STREET LIGHT
- VZ VERIZON
- WT WEIGHT
- FS FIELD SIDE
- BIP BLACK IRON PIPE
- BOW BACK OF SIDEWALK
- DOC DEPTH OF COVER
- FDC FIBER DUCT IN CONCRETE
- GIP GALVANIZED IRON PIPE
- GRC GALVANIZED RIGID CONDUIT
- HDPG HOT DIPPED GALVANIZED
- ID INNERDUCT
- PUE PUBLIC UTILITY EASEMENT
- RPL REPLACE
- SCA SIDE CABLE ARM
- SLP STREET LIGHT PROTECTED
- SLU STREET LIGHT UNPROTECTED

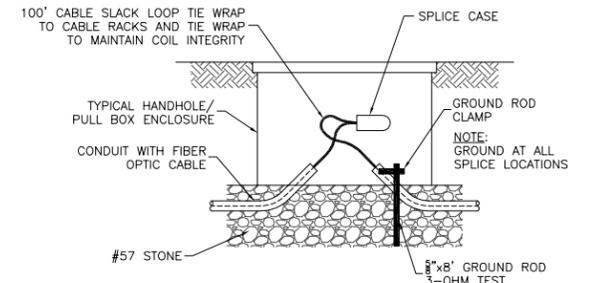
- TCC TRAFFIC SIGNAL CONTROL BOX
- E POWER JUNCTION BOX / PEDESTAL
- ⊗ POWER MANHOLE
- ⊗ TRAFFIC SIGNAL POLE
- R/R R/R CROSSING SIGNAL
- ⊗ SIGN
- ⊗ SIGN (DOUBLE POST)
- ⊗ LUMINAIRE / STREET LIGHT
- ⊗ TREE
- ⊗ MAILBOX
- ⊗ CABINET
- ⊗ TELEPHONE MANHOLE
- ⊗ EXISTING HANDHOLE
- ⊗ RIPRAP

PROPOSED:

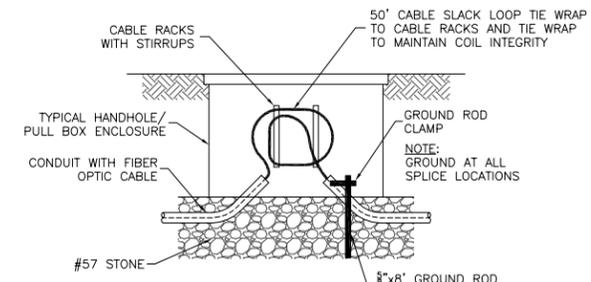
- FIBER --- AERIAL F.O.C.
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- AERIAL OVERLASH
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- FIBER FIBER OPTIC SYMBOL
- ← DOWN GUY
- ↙ S/W ANCHOR & GUY
- ↖ ANCHOR & GUY
- ↗ ANCHOR
- ⊕ VGR GROUND
- ⊗ PROPOSED VAULT



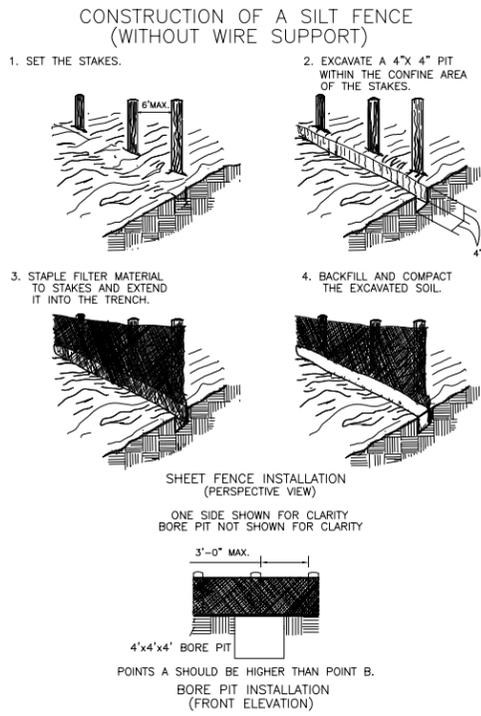
1 TRENCHING DETAIL
GN-2 N.T.S.



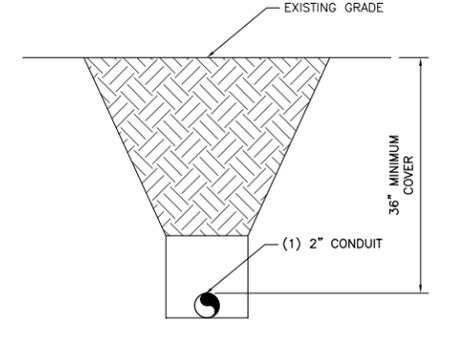
4 TYPICAL HANDHOLE WITH SPLICE BOX
GN-2 N.T.S.



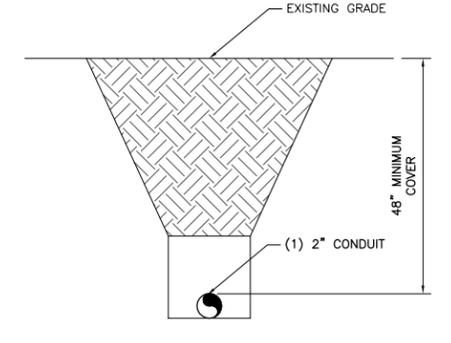
5 TYPICAL HANDHOLE WITH COIL
GN-2 N.T.S.



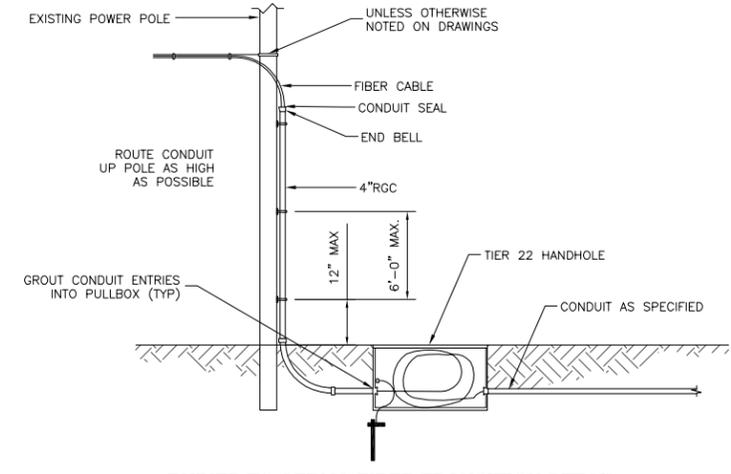
7 TYPICAL SILT FENCE DETAIL
GN-2 N.T.S.



2 TYPICAL DRIVEWAY BORE DETAIL
GN-2 N.T.S.



3 TYPICAL ROAD BORE DETAIL
GN-2 N.T.S.



6 BURIED TO AERIAL FIBER TRANSITION DETAIL
GN-2 N.T.S.

NOTE:
UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100' IN ADVANCE OF TRENCHES, PLOWING OR BORING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.



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DRAWING TITLE:
SYMBOLS, ABBREVIATIONS, & DETAILS

DRAWING SHEET:
GN-2

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

SHEET NO. 4 OF 12

CONTACT SHEET

ENGINEERING CONTRACTOR:

CTC: (301) 933-1488
 PROJECT MANAGER: MITCH HERGETT
 SENIOR OSP ENGINEER: JIM JORDAN

CONSTRUCTION CONTRACTOR:

NAME OF FIRM: (###) ###-####
 PROJECT COORDINATOR: (###) ###-####
 PROJECT SUPERINTENDENT: (###) ###-####

UTILITIES:

MISS UTILITY MD:	24 HOUR NUMBER	(800) 257-7777
COLONIAL PIPELINE:	JOHN WINTERS	(703) 447-7331
EMERGENCY 24 HOUR NUMBER		(800) 926-2728
WASHINGTON GAS	CHUCK WHITLEY	(703) 750-4205
EMERGENCY 24 HOUR NUMBER		(703) 750-1000
COLONIAL PIPE LINE	BUZZ LEWANDOWSKI	(410) 549-4128
EMERGENCY 24 HOUR NUMBER (LOCAL)		(410) 549-4120
COLUMBIA GAS	KEITH GARRISON	(703) 759-2115
EMERGENCY 24 HOUR NUMBER		(800) 835-7191
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (WATER & SEWER)	NAME	(###) ##-####
	24 HOUR EMERGENCY	(###) ##-####
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (ALL OTHER UTILITIES)	NAME	(###) ##-####

STATE & LOCAL GOVERNMENT:

STATE HIGHWAY ADMINISTRATION - CARROLL COUNTY	DISTRICT 7
UTILITY ENGINEER - ANDREA ABEND	(301) 624-8116
CHIEF INSPECTOR - CHRIS LOOKINGBILL	(301) 624-8119



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CDS)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CDS)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
CONTACT SHEET

DRAWING SHEET:
GN-3

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

SHEET NO. 5 OF 12



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CD'S)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CD'S)

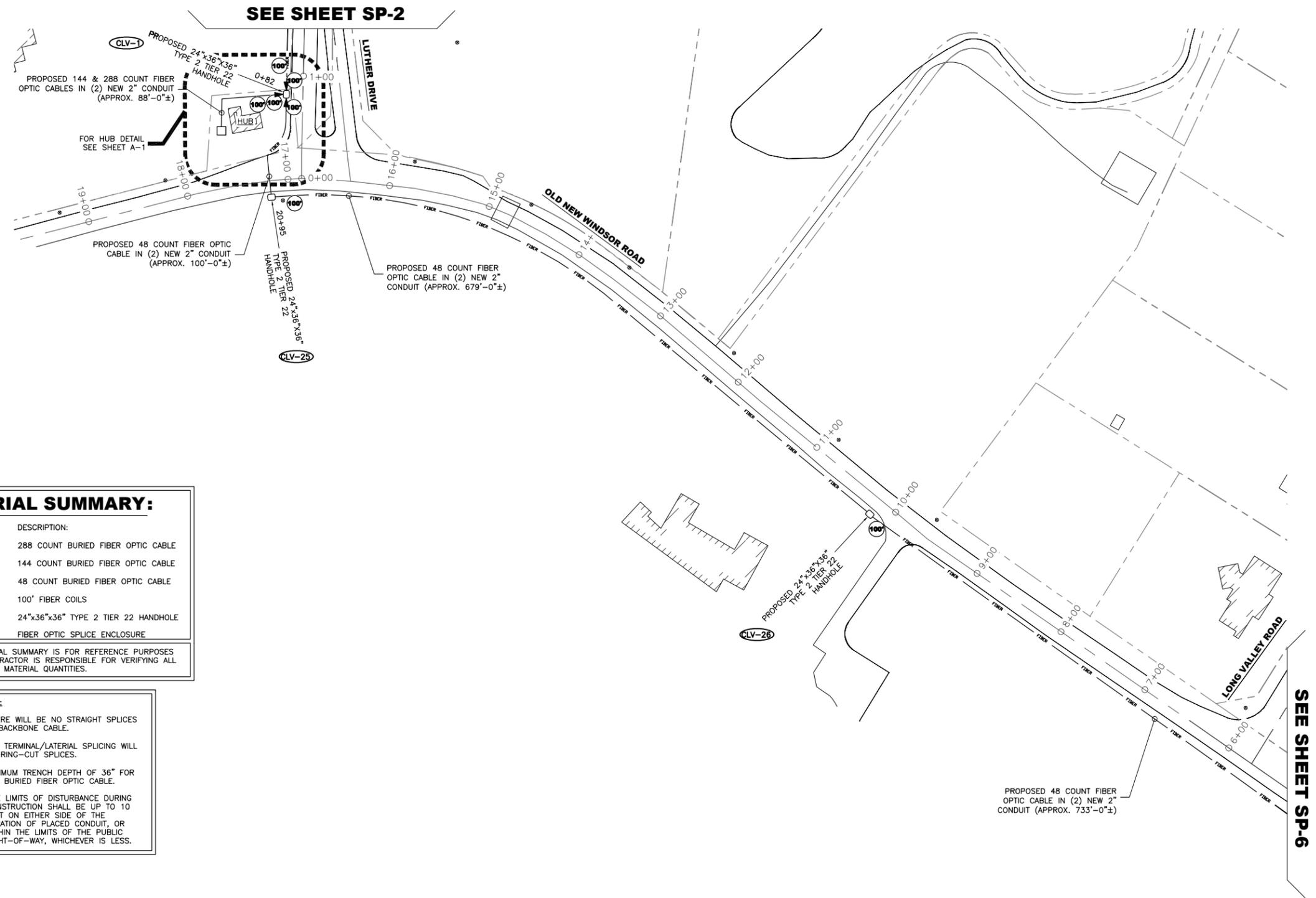
DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
OLD NEW WINDSOR ROAD & LUTHER DRIVE

DRAWING SHEET:
SP-1

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD TO LUTHER DRIVE

SHEET NO. 6 OF 12



MATERIAL SUMMARY:

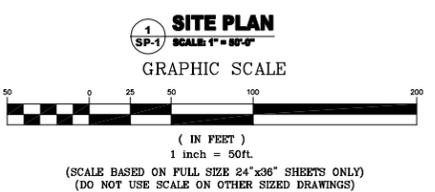
QUANTITY:	DESCRIPTION:
288'	288 COUNT BURIED FIBER OPTIC CABLE
288'	144 COUNT BURIED FIBER OPTIC CABLE
1812'	48 COUNT BURIED FIBER OPTIC CABLE
7	100' FIBER COILS
3	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
1	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

- NOTES:**
1. THERE WILL BE NO STRAIGHT SPLICES IN BACKBONE CABLE.
 2. ALL TERMINAL/LATERAL SPLICING WILL BE RING-CUT SPLICES.
 3. MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 4. THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.



PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
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ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CD'S)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

LUTHER DRIVE & WELER CIRCLE

DRAWING SHEET:

SP-3

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

SHEET NO. 8 OF 12

SEE SHEET SP-4

SEE SHEET SP-5

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1108'	288 COUNT BURIED FIBER OPTIC CABLE
581'	144 COUNT BURIED FIBER OPTIC CABLE
1	100' FIBER COIL
6	25' FIBER COIL
10	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
8	16"x22"x18" TYPE 4 TIER 22 HANDHOLE
1	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTES:

- THERE WILL BE NO STRAIGHT SPLICES IN BACKBONE CABLE.
- ALL TERMINAL/LATERAL SPLICING WILL BE RING-CUT SPLICES.
- MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
- THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.

DRAWING NOTES:

- (A) (2) PROPOSED 2" CONDUIT (APPROX. 150'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- (B) PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 211'-0"±)
- (C) (2) PROPOSED 2" CONDUIT (APPROX. 90'-0"±) WITH FIBER OPTIC TERMINAL TAIL
- (D) (2) PROPOSED 2" CONDUIT (APPROX. 152'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- (E) PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 77'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- (F) (2) PROPOSED 2" CONDUIT (APPROX. 162'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- (G) (2) PROPOSED 2" CONDUIT (APPROX. 35'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- (H) PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 168'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)

SITE PLAN

SCALE 1" = 80'-0"

GRAPHIC SCALE

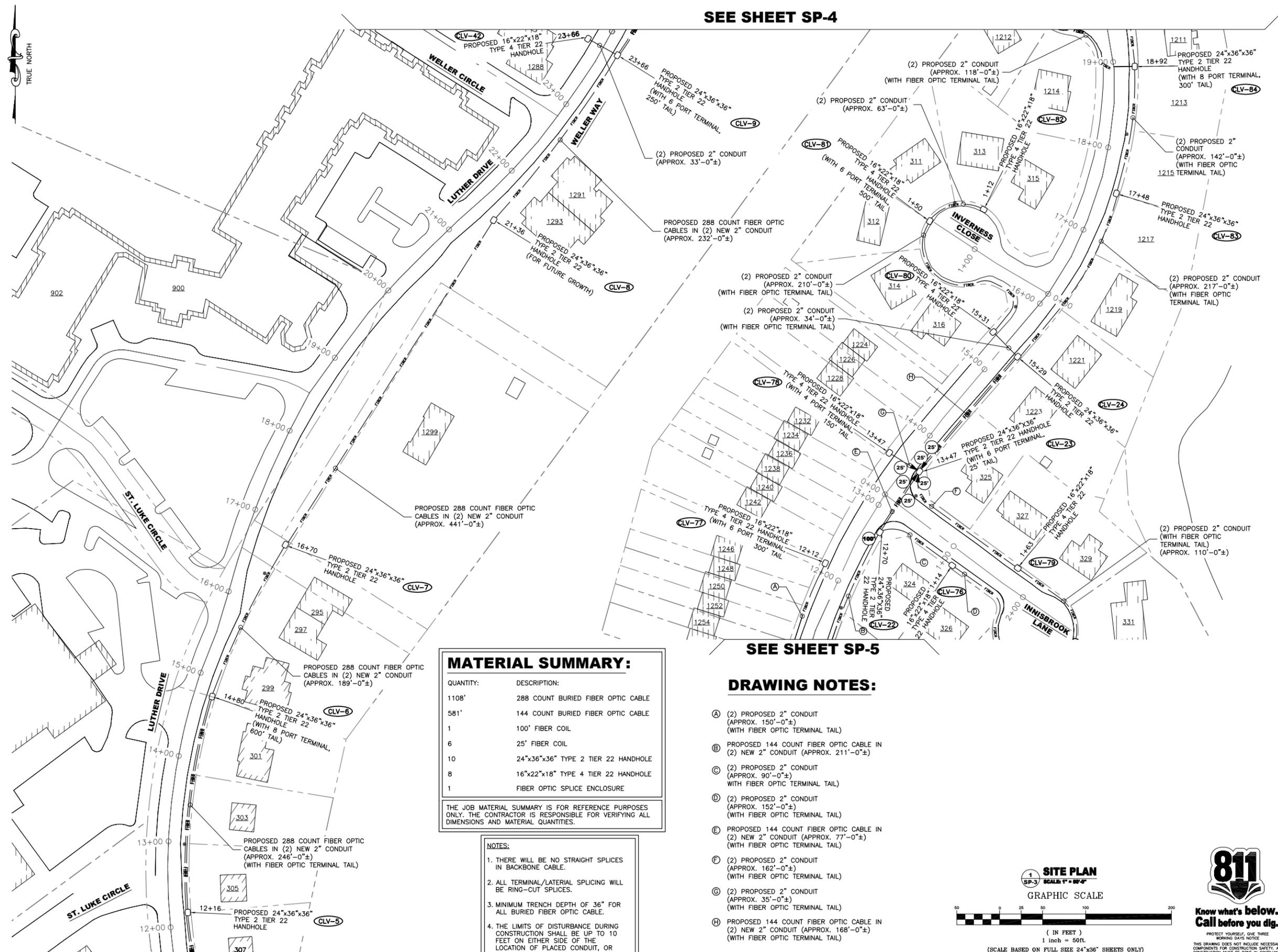


(IN FEET)
1 inch = 50ft
(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)

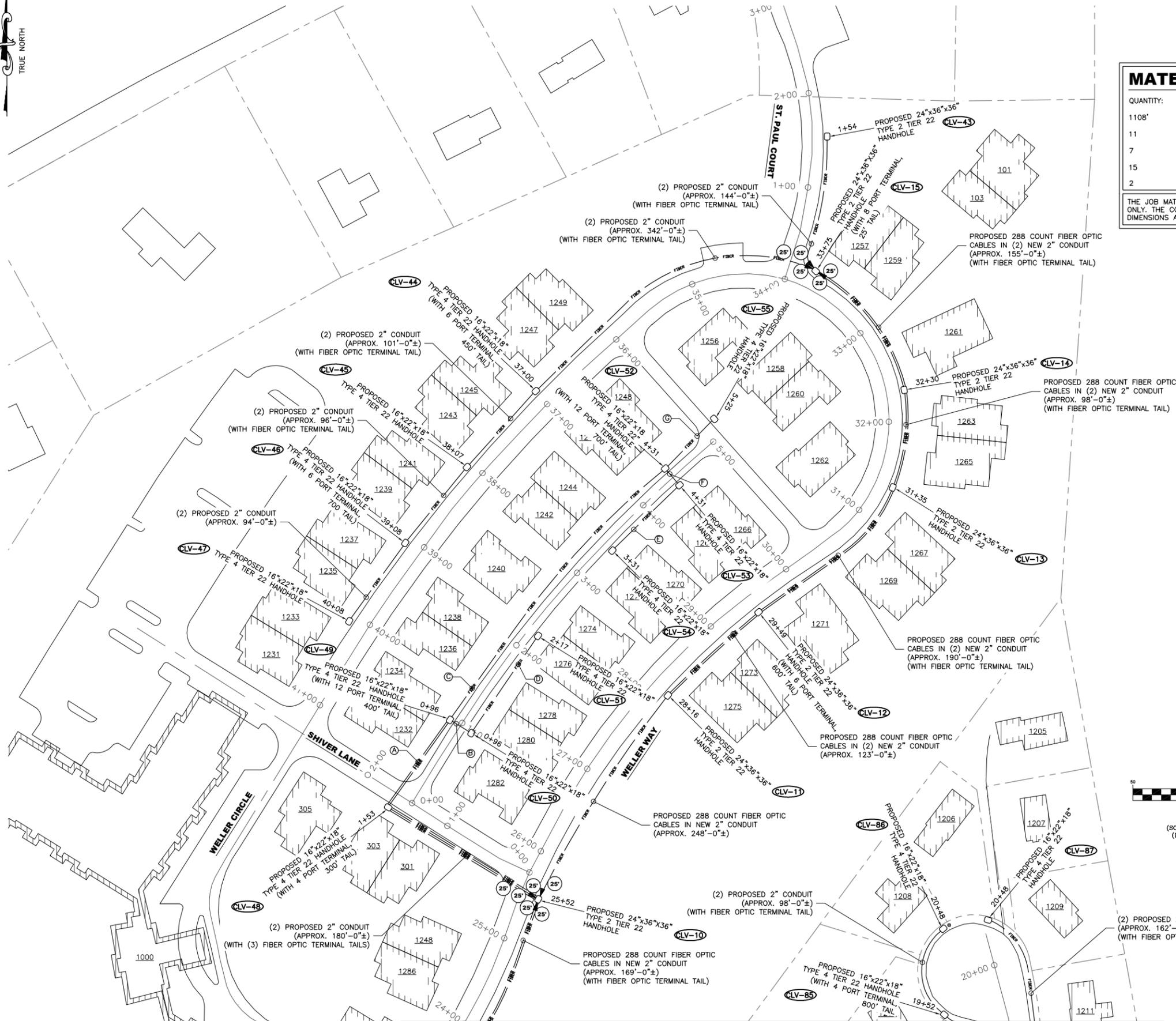


Know what's below.
Call before you dig.

PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.



SEE SHEET SP-2



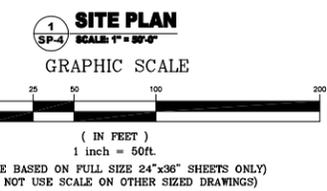
MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1108'	288 COUNT BURIED FIBER OPTIC CABLE
11	25' FIBER COIL
7	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
15	16"x22"x18" TYPE 4 TIER 22 HANDHOLE
2	FIBER OPTIC SPLICE ENCLOSURES

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

- NOTES:**
1. THERE WILL BE NO STRAIGHT SPLICES IN BACKBONE CABLE.
 2. ALL TERMINAL/LATERAL SPLICING WILL BE RING-CUT SPLICES.
 3. MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 4. THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.

- DRAWING NOTES:**
- (A) (2) PROPOSED 2" CONDUIT (APPROX. 106'-0"±) (WITH (2) FIBER OPTIC TERMINAL TAILS)
 - (B) (2) PROPOSED 2" CONDUIT (APPROX. 21'-0"±)
 - (C) (2) PROPOSED 2" CONDUIT (APPROX. 344'-0") (WITH FIBER OPTIC TERMINAL TAIL)
 - (D) (2) PROPOSED 2" CONDUIT (APPROX. 117'-0"±)
 - (E) (2) PROPOSED 2" CONDUIT (APPROX. 92'-0"±)
 - (F) (2) PROPOSED 2" CONDUIT (APPROX. 17'-0"±)
 - (G) (2) PROPOSED 2" CONDUIT (APPROX. 67'-0"±)



811
Know what's below.
Call before you dig.

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SEE SHEET SP-3



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CD'S)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00
DRAWING TITLE:
WELLER WAY & SHIVER LANE

DRAWING SHEET:
SP-4

JOB NO: CITY OF WESTMINSTER
FTTP PILOT - PROJECT NO. R-265-C
JOB NAME: CLV FTTP BUILD
JOB ROUTE: OLD NEW WINDSOR ROAD TO LUTHER DRIVE

SHEET NO. 9 OF 12



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1369'	144 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COIL
19	25' FIBER COIL
6	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
19	16"x22"x18" TYPE 4 TIER 22 HANDHOLE
3	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTES:

- THERE WILL BE NO STRAIGHT SPLICES IN BACKBONE CABLE.
- ALL TERMINAL/LATERAL SPLICING WILL BE RING-CUT SPLICES.
- MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
- THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.

DRAWING NOTES:

- A PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 306'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- B (2) PROPOSED 2" CONDUIT (APPROX. 138'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- C (2) PROPOSED 2" CONDUIT (APPROX. 57'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- D (2) PROPOSED 2" CONDUIT (APPROX. 169'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- E (2) PROPOSED 2" CONDUIT (APPROX. 85'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- F (2) PROPOSED 2" CONDUIT (APPROX. 184'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- G (2) PROPOSED 2" CONDUIT (APPROX. 56'-0"±) (WITH (2) FIBER OPTIC TERMINAL TAIL)
- H PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 77'-0"±) (WITH (2) FIBER OPTIC TERMINAL TAILS)
- I (2) PROPOSED 2" CONDUIT (APPROX. 33'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- J (2) PROPOSED 2" CONDUIT (APPROX. 31'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- K PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 63'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- L (2) PROPOSED 2" CONDUIT (APPROX. 83'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- M (2) PROPOSED 2" CONDUIT (APPROX. 152'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- N (2) PROPOSED 2" CONDUIT (APPROX. 191'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)
- O PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 80'-0"±) (WITH (2) FIBER OPTIC TERMINAL TAILS)
- P (2) PROPOSED 2" CONDUIT (APPROX. 35'-0"±) (WITH (3) FIBER OPTIC TERMINAL TAILS)
- Q PROPOSED 144 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 211'-0"±)
- R (2) PROPOSED 2" CONDUIT (APPROX. 155'-0"±) (WITH FIBER OPTIC TERMINAL TAIL)

SITE PLAN

SCALE 1" = 50'-0"

GRAPHIC SCALE



(IN FEET)

1 inch = 50 ft

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



**Know what's below.
Call before you dig.**

PROTECT YOURSELF. ONE THREE WORKING DAYS NOTICE.
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SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CD'S)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

**FAIRWAY DRIVE
&
GREENBRIAR CLOSE**

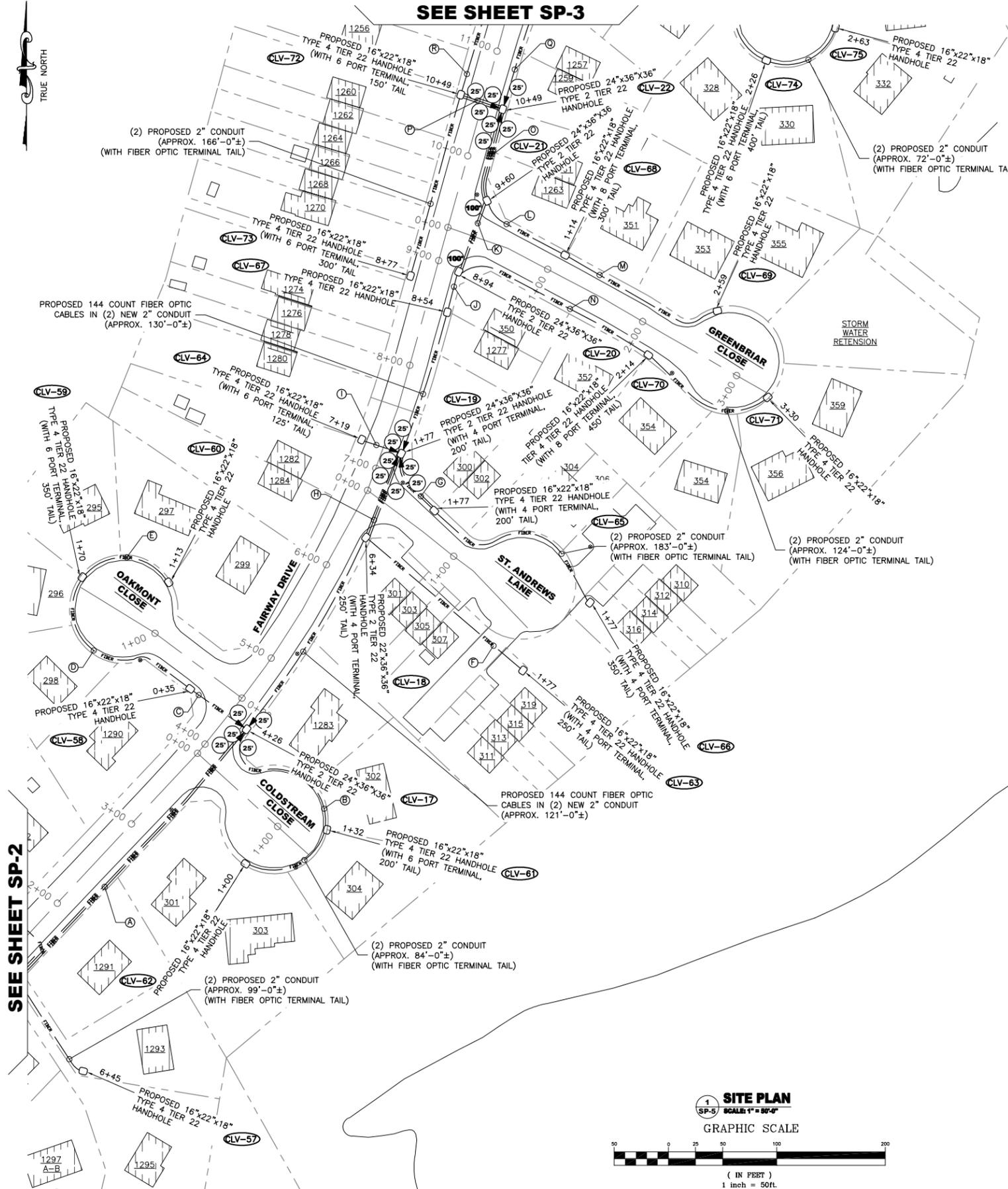
DRAWING SHEET:

SP-5

**JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE**

SHEET NO. 10 OF 12

SEE SHEET SP-3

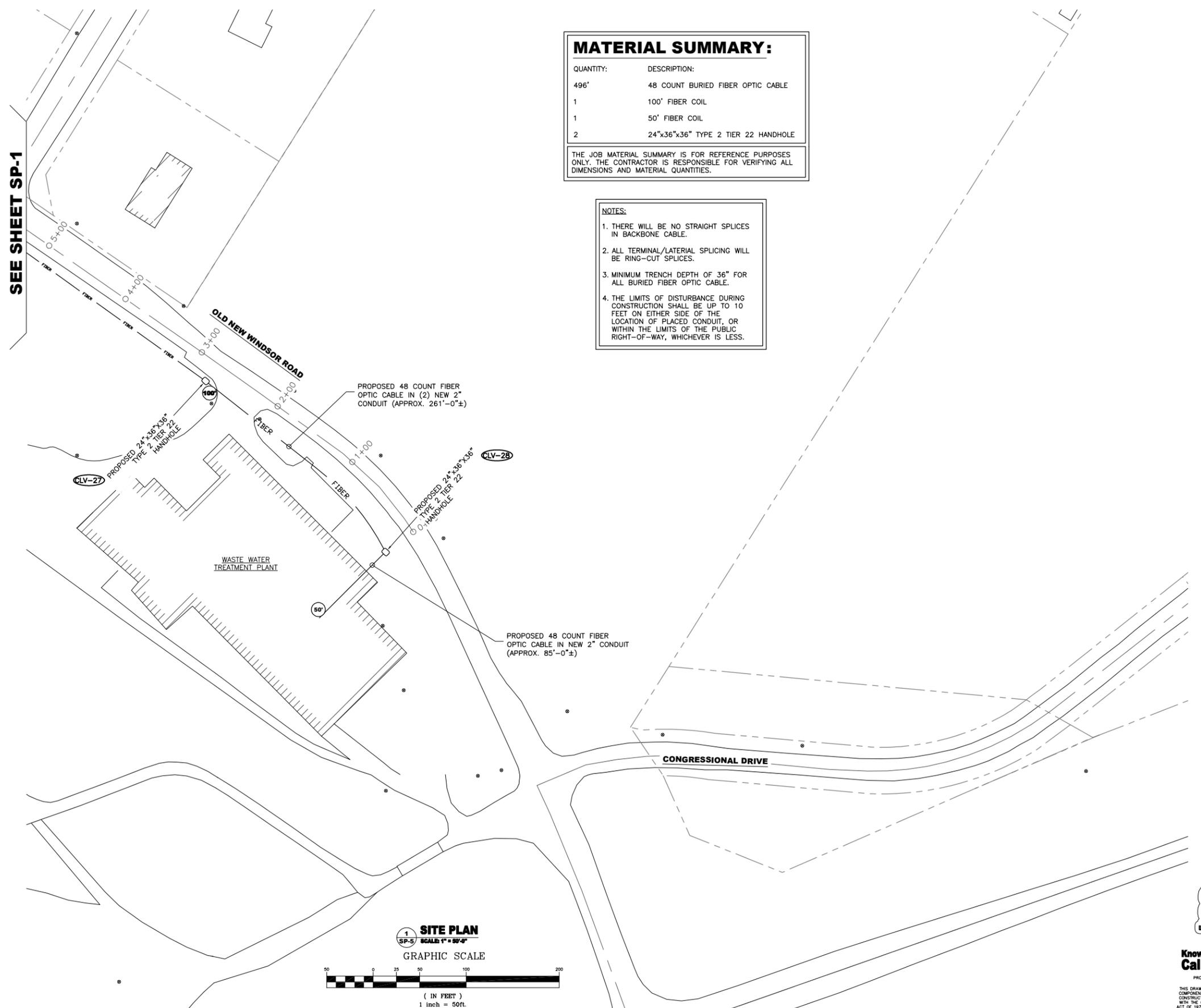


SEE SHEET SP-2

TRUE NORTH



SEE SHEET SP-1



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
496'	48 COUNT BURIED FIBER OPTIC CABLE
1	100' FIBER COIL
1	50' FIBER COIL
2	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

- NOTES:**
1. THERE WILL BE NO STRAIGHT SPLICES IN BACKBONE CABLE.
 2. ALL TERMINAL/LATERAL SPLICING WILL BE RING-CUT SPLICES.
 3. MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 4. THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.

PROPOSED 48 COUNT FIBER OPTIC CABLE IN (2) NEW 2" CONDUIT (APPROX. 261'-0"±)

PROPOSED 48 COUNT FIBER OPTIC CABLE IN NEW 2" CONDUIT (APPROX. 85'-0"±)

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

CLV-27

CLV-28

WASTE WATER TREATMENT PLANT

1 SITE PLAN
SP-5
SCALE 1" = 50'-0"



(IN FEET)
1 inch = 50ft.
(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CDS)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CDS)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
OLD NEW WINDSOR ROAD & CONGRESSIONAL DRIVE

DRAWING SHEET:
SP-6

JOB NO: CITY OF WESTMINSTER
FTTP PILOT - PROJECT NO. R-265-C
JOB NAME: CLV FTTP BUILD
JOB ROUTE: OLD NEW WINDSOR ROAD TO LUTHER DRIVE

SHEET NO. 11 OF 12



Know what's below. Call before you dig.

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ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7	06-03-14	TITLE PAGE UPDATED
6	05-16-14	EROSION CONTROL ADDED
5	05-7-14	CLIENTS COMMENTS REVISED
4	04-28-14	CLIENTS COMMENTS REVISED
3	04-09-14	CLIENTS COMMENTS REVISED
2	02-21-14	ISSUED FOR 100% REVIEW (CD'S)
1	02-13-14	CLIENTS COMMENTS REVISED
0	01-30-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

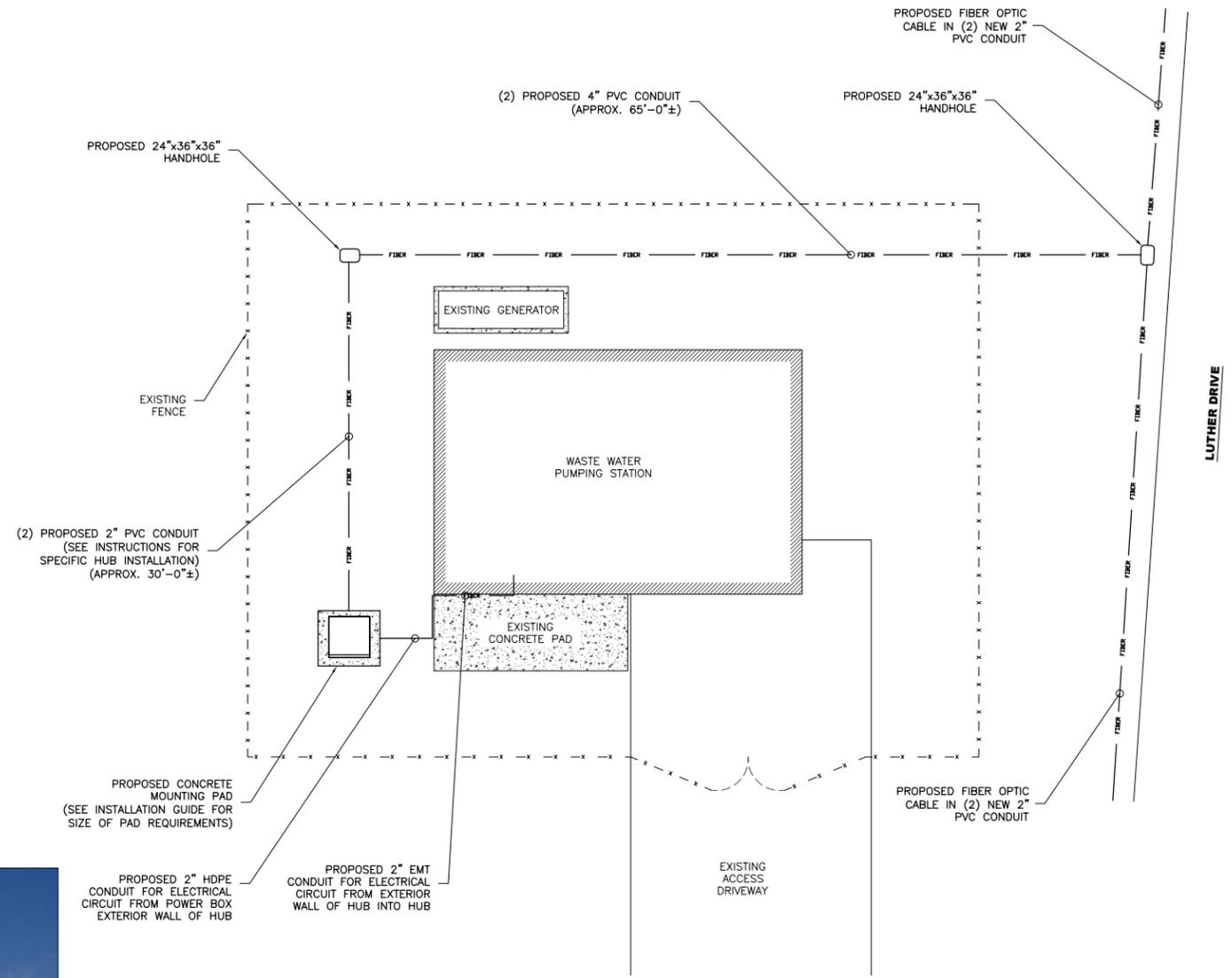
WASTE WATER PLAN

DRAWING SHEET:

A-1

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
CLV FTTP BUILD
JOB ROUTE:
OLD NEW WINDSOR ROAD
TO
LUTHER DRIVE

SHEET NO. 12 OF 12



1 WASTE WATER PLAN
SCALE: N.T.S.



2 CONDUIT DETAIL
SCALE: N.T.S.



Know what's below.
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JOB NO:
**CITY OF WESTMINSTER FTTP
 PILOT - PROJECT NO. R-265-C**

JOB NAME:
AIR PARK FTTP BUILD - PHASE 1
JOB ROUTE:
**AIRPORT DRIVE
 TO
 LITTLESTOWN PIKE**

****MAYOR**
 KEVIN R. UTZ**

****COUNCIL MEMBERS**
 DR. ROBERT WACK - PRESIDENT
 DENNIS FRAZIER
 PAUL WHITSON
 SUZANNE P. ALBERT
 TONY CHIAVACCI**



SOIL CONSERVATION DISTRICT
 THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.
 APPROVED _____ CARROLL S.C.D./DATE

OWNER/DEVELOPER
 I CERTIFY THAT THIS PLAN OF SOIL & SEDIMENT CONTROL WILL BE IMPLEMENTED TO THE FULLEST EXTENT, AND ALL STRUCTURES WILL BE INSTALLED TO THE DESIGN SPECIFICATION AS SPELLED OUT IN THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE EVALUATION BY THE CARROLL SOIL CONSERVATION DISTRICT PERSONNEL AND COOPERATING AGENCIES.
 DEVELOPER _____ DATE _____
 PRINTED NAME OF DEVELOPER _____
 DEVELOPER COMPANY NAME _____
 DEVELOPER PHONE NUMBER _____

ENGINEER
 I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL IS DESIGNED WITH MY PERSONAL KNOWLEDGE OF THIS SITE CONDITION AND HAS BEEN DESIGNED TO THE STANDARDS AND SPECIFICATIONS ADOPTED BY CARROLL SOIL CONSERVATION DISTRICT.
 _____ ENGINEER/DATE

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-06-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-28-14	CLIENTS COMMENTS REVISED
2	02-20-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
TITLE SHEET

DRAWING SHEET:
T-1

JOB NO:
**CITY OF WESTMINSTER
 FTTP PILOT - PROJECT
 NO. R-265-C**
JOB NAME:
AIR PARK FTTP BUILD - PHASE 1
JOB ROUTE:
**AIRPORT DRIVE
 TO
 LITTLESTOWN PIKE**

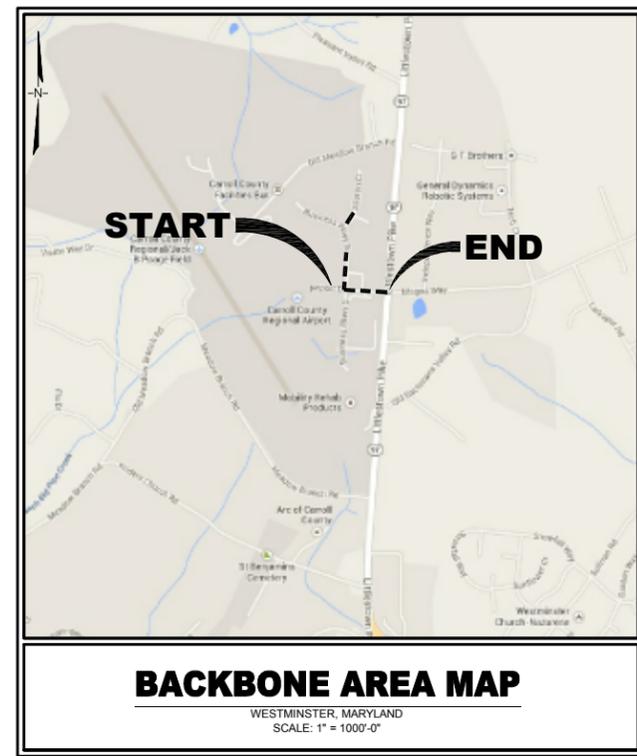
SHEET NO. 1 OF 8

JOB SUMMARY
 THIS JOB CONSISTS OF RUNNING FIBER OPTIC CABLES ALONG THE EXISTING RIGHT OF WAY IN NEW UNDERGROUND FACILITIES STARTING AT 1000 LITTLESTOWN PIKE.
 THE PRIMARY ROUTE OF THIS JOB IS AS FOLLOWS:
 1. EAST ALONG AIRPORT DRIVE
 2. NORTH ALONG BUSINESS PARKWAY NORTH
 3. NORTHEAST ALONG AILERON COURT
 THIS ROUTE CONTAINS 3.25 MILES OF FIBER OPTIC CABLE, COVERING A TOTAL LINEAR PATH OF 2.27 MILES.

JOB MATERIAL SUMMARY

QUANTITY:	DESCRIPTION:
6,945.4 FT.	144 COUNT BURIED FIBER OPTIC CABLE
1,491.6 FT.	48 COUNT BURIED FIBER OPTIC CABLE
2,831.4 FT.	24 COUNT BURIED FIBER OPTIC CABLE
5,907.0 FT.	12 COUNT BURIED FIBER OPTIC CABLE
31	25' FIBER COILS
39	50' FIBER COIL
9	100' FIBER COIL
8	FIBER OPTIC SPLICE ENCLOSURE
20	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
5	11"x18"x18" TYPE 3 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.



SHEET INDEX

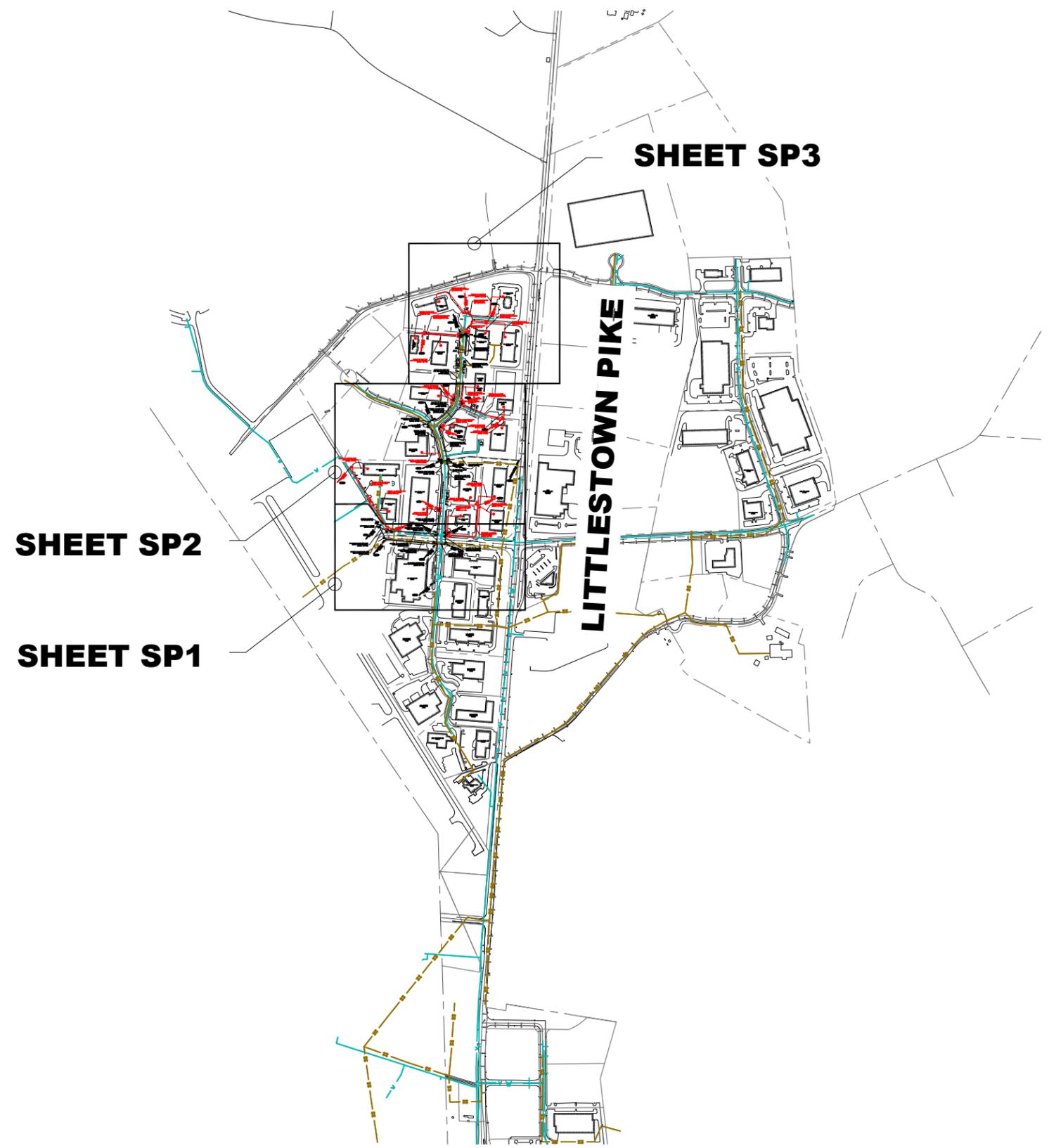
SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
SH-1	SHEET INDEX
GN-1	GENERAL NOTES
GN-2	SYMBOLS, ABBREVIATIONS & DETAILS
GN-3	CONTACT SHEET
SP-1	LITTLESTOWN PIKE & INDEPENDENCE WAY
SP-2	BUSINESS PARKWAY SOUTH & AILERON COURT
SP-3	AILERON COURT



LEGEND:

NO FLOOD PLAIN IN THIS SECTION

NO WETLANDS IN THIS SECTION



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-06-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-28-14	CLIENTS COMMENTS REVISED
2	02-20-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

SHEET INDEX

DRAWING SHEET:

SH-1

JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 1
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 2 OF 8



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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DRAWN BY:	JWP
CHECKED BY:	
SCALE:	NOTED
JOB NO:	M214030.00

DRAWING TITLE:

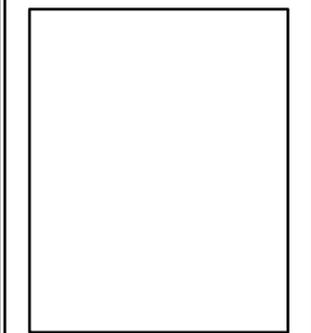
GENERAL NOTES

DRAWING SHEET:

GN-1

**JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 1
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE**

SHEET NO. 3 OF 8



MAINTENANCE PROGRAM:

1. ALL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGE STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY TO AVOID DAMAGE TO DOWNSTREAM PROPERTY.
2. AS AREAS ARE BROUGHT TO EITHER GRADE OR SUBGRADE THEY SHOULD BE STABILIZED BY EITHER PLACING GRAVEL SUBBBASE OR BY SEEDING AS EARLY AS POSSIBLE.
3. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF SLOPE AT THE END OF EACH DAY OF OPERATION.
4. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN FIVE (5) DAYS OF COMPLETION OF GRADING.

GENERAL LAND CONSERVATION NOTES:

1. FOLLOW 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, VOL. 4.
2. TRENCHES SHALL BE COMPACTED, SEEDED, AND MULCHED. AT THE END OF EACH WORK DAY.
3. ALL TEMPORARY EARTH BERMS, DIVERSION DIKES, SILT DAMS, AND SOIL STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY IS REQUIRED.
4. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SILT TRAPS MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
5. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO THE RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED UPON THE APPROVAL OF CARROLL COUNTY, AND ALL DENUDED AREAS SHALL BE STABILIZED WITH VEGETATION.
6. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPEN AT ONE TIME.
7. EXCAVATION MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
8. EFFLUENT FROM THE DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
9. WHERE CONSTRUCTION VEHICLES ACCESS ROUTES, INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH WORK DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

CONSTRUCTION NOTES:

1. VERIFICATION OF THE LOCATION OF EXISTING UTILITY CROSSINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
2. CALL THE LOCAL UTILITY ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY OF ANY CONSTRUCTION. 1-800-257-7777
3. MAINTAIN A 12" VERTICAL SEPARATION BETWEEN PROPOSED CONDUIT AND OTHER UTILITIES.
4. CONDUIT CAPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER INSTALLATION.
5. INSTALL ALL DUCTS WILL BE PROOFED USING A MANDRILL ¼" SMALLER THAN THE PIPE ID PVC AS SHOWN ON DRAWINGS.
6. THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 36".
7. MAXIMUM CABLE INSTALLATION TENSION WILL NOT EXCEED 600 POUNDS. A 600 POUND BREAKAWAY SWIVEL WILL BE USED DURING PULLING.
8. THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR WILL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO CITY OF WESTMINSTER GOVERNMENT WITHIN 14 DAYS OF COMPLETION OF THE WORK.
11. CONDUITS WILL BE TERMINATED ABOVE THE MIDPOINT OF MANHOLE.
12. PLACE 100 FEET OF SLACK TO BE LEFT ON ALL CABLE ENDS AT SPLICE/LATERAL POINTS. AT ALL OTHER HANDHOLES LEAVE 50 FEET OF SLACK.
13. BURIED POWER LINES: HAND DIG AS REQUIRED.
14. BURIED FIBER OPTIC TELEPHONE CABLES: HAND DIG AS REQUIRED.
15. BURIED CATV CABLES: HAND DIG AS REQUIRED.
16. BURIED GAS LINES: HAND DIG AS REQUIRED.
17. NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT ON EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.

GENERAL NOTES:

1. ALL WORK WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, OSHA, NESC, DOT, RPA, ETC. GENERAL NOTES WILL APPLY TO ALL DRAWINGS.
2. THE CONTRACTOR WILL NOTIFY (IF APPLICABLE) THE ADJACENT PROPERTY OWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION.
3. FOLLOW MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES FOR TRAFFIC CONTROL.
4. PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED ON TO PRIVATE PROPERTY.
5. NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
6. NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORKING PERIODS.
7. NO EQUIPMENT OR MATERIALS MAY BE STORED ON SIDEWALKS.
8. EXCAVATED MATERIAL WILL BE TEMPORARILY PLACED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP IMMEDIATELY.
9. TEMPORARY ROADWAY RESTORATION WILL CONSIST OF NON-SHRINKABLE GROUT AND MATCH THE EXISTING ASPHALT CAP THICKNESS.
10. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
11. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE SPECIFICATIONS AND STANDARDS.

EROSION SEDIMENT CONTROL NOTES:

1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
3. FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE B-4-4 AND B-4-5.
4. MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A.1.B FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1
6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN B-4-2
7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
9. NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THEN 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION
10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

SURFACE FEATURES / AERIAL UTILITIES - LINETYPES & SYMBOLS:

EXISTING:

- AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C.
- PLENUM INNERDUCT
- TS---TS---TS--- TRAFFIC SIGNAL
- GAS---GAS---GAS--- GAS
- V---V---V--- WATER
- SS---SS---SS--- SANITARY SEWER
- ST---ST---ST--- STORM SEWER
- BGE---BGE---BGE--- BGE POWER
- VER---VER---VER--- VERIZON LINE
- AP---AP---AP--- ALLEGANY POWER
- CENTERLINE
- EDGE OF CURB
- EDGE OF PAVEMENT
- ===== RAIL ROAD TRACKS
- RIGHT OF WAY
- FENCE
- SIDEWALK

- ⊗ JOINT-USE / POWER POLE
- ⊗ UTILITY POLE
- ⊗ CONCRETE POLE
- ⊗ STEEL POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT/BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ⤵ DOWN GUY
- ⤵ S/W ANCHOR & GUY
- ⤵ ANCHOR & GUY
- ⤵ ANCHOR
- ⤵ VGR GROUND
- TP TEST PIT
- ⊗ FIBER OPTIC CABLE MARKER
- ⊗ TELCO PED
- ⊗ CATV VAULT
- ⊗ CATV PED
- PROPERTY CORNER
- ⊗ FOUND MONUMENT
- ⊗ DRAIN/INLET
- ⊗ WATER METER
- FH⊕ FIRE HYDRANT
- ⊗ WATER VALVE
- ⊗ WATER HANDHOLE / VAULT
- ⊗ CATCH BASIN
- ⊗ SANITARY SEWER MANHOLE
- ⊗ SD STORM SEWER MANHOLE
- ⊗ GAS VALVE
- ⊗ GAS METER
- ⊗ GAS HANDHOLE / VAULT

- TCC TRAFFIC SIGNAL CONTROL BOX
- E POWER JUNCTION BOX / PEDESTAL
- ⊗ POWER MANHOLE
- ⊗ TRAFFIC SIGNAL POLE
- R/R CROSSING SIGNAL
- ⊗ SIGN
- ⊗ SIGN (DOUBLE POST)
- ⊗ LUMINAIRE / STREET LIGHT
- ⊗ TREE
- ⊗ MAILBOX
- ⊗ CABINET
- ⊗ TELEPHONE MANHOLE
- ⊗ EXISTING HANDHOLE
- ⊗ RIPRAP

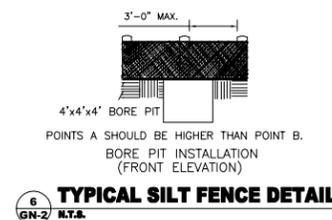
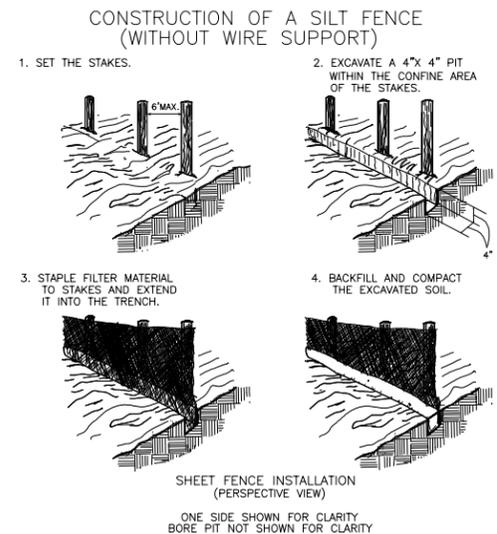
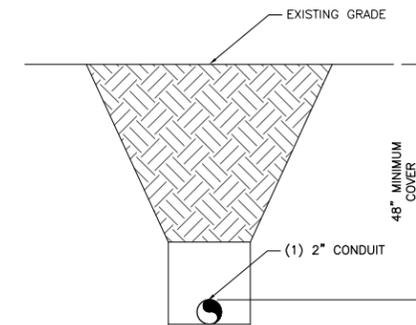
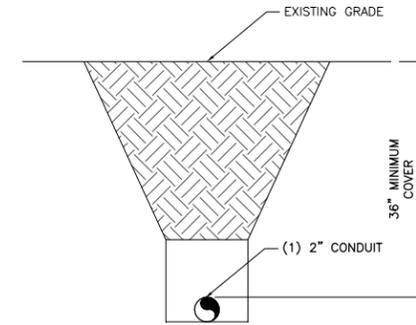
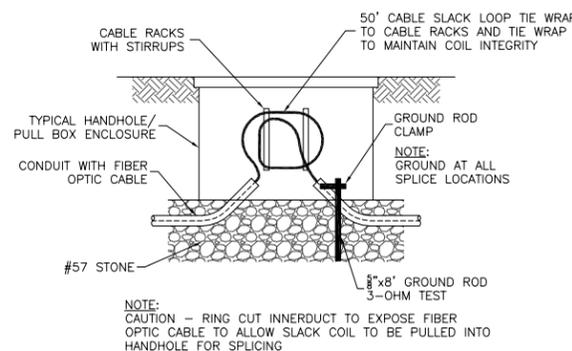
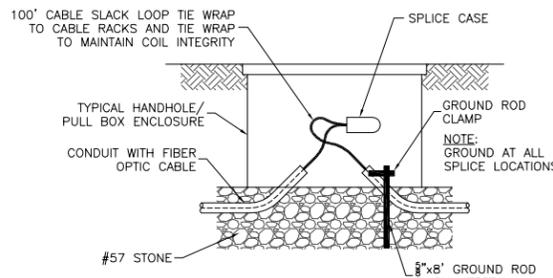
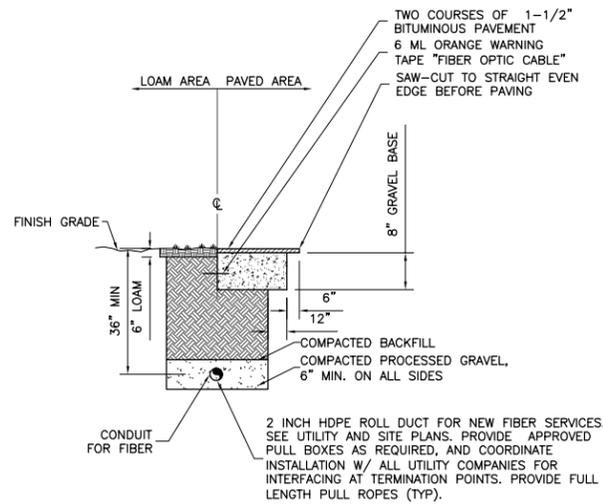
PROPOSED:

- FIBER --- AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C. IN CONDUIT
- PLENUM INNERDUCT
- FIBER --- ADD/ALTERNATE F.O.C.

- ⊗ JOINT-USE / POWER POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT / BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ⤵ DOWN GUY
- ⤵ S/W ANCHOR & GUY
- ⤵ ANCHOR & GUY
- ⤵ ANCHOR
- ⤵ VGR GROUND
- ⊗ PROPOSED VAULT

ABBREVIATIONS:

- E/W EQUIPPED WITH
- E/O EAST OF
- F.O.C. FIBER OPTIC CABLE
- N/O NORTH OF
- O/S OFFSET
- S/O SOUTH OF
- W/O WEST OF
- AB ABANDONED
- CA CABLE
- D/W DRIVEWAY
- DG DOWNGUY
- R/W RIGHT OF WAY
- S/W SIDEWALK
- C/L CENTERLINE
- E/P EDGE OF PAVEMENT
- B/C BACK OF CURB
- OD OUTSIDE DIAMETER
- PL PLACE
- SL STREET LIGHT
- VZ VERIZON
- WT WEIGHT
- FS FIELD SIDE
- BIP BLACK IRON PIPE
- BOW BACK OF SIDEWALK
- DOC DEPTH OF COVER
- FDC FIBER DUCT IN CONCRETE
- GIP GALVANIZED IRON PIPE
- GRC GALVANIZED RIGID CONDUIT
- HOG HOT DIPPED GALVANIZED
- ID INNERDUCT
- PUE PUBLIC UTILITY EASEMENT
- RPL REPLACE
- SCA SIDE CABLE ARM
- SLP STREET LIGHT PROTECTED
- SLU STREET LIGHT UNPROTECTED



NOTE:

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100' IN ADVANCE OF TRENCHES, PLOWING OR BORING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.



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SCALE: NOTED

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JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 4 OF 8

CONTACT SHEET

ENGINEERING CONTRACTOR:

CTC: (301) 933-1488
 PROJECT MANAGER: MITCH HERGETT (406) 579-1858
 SENIOR OSP ENGINEER: JIM JORDAN (410) 231-0703

CONSTRUCTION CONTRACTOR:

NAME OF FIRM: (###) ###-####
 PROJECT COORDINATOR: (###) ###-####
 PROJECT SUPERINTENDENT: (###) ###-####

UTILITIES:

MISS UTILITY MD:	24 HOUR NUMBER	(800) 257-7777
COLONIAL PIPELINE:	JOHN WINTERS	(703) 447-7331
EMERGENCY 24 HOUR NUMBER		(800) 926-2728
WASHINGTON GAS	CHUCK WHITLEY	(703) 750-4205
EMERGENCY 24 HOUR NUMBER		(703) 750-1000
COLONIAL PIPE LINE	BUZZ LEWANDOWSKI	(410) 549-4128
EMERGENCY 24 HOUR NUMBER (LOCAL)		(410) 549-4120
COLUMBIA GAS	KEITH GARRISON	(703) 759-2115
EMERGENCY 24 HOUR NUMBER		(800) 835-7191
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (WATER & SEWER)	XXXXX	(###) ##-####
	24 HOUR EMERGENCY	(###) ##-####
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (ALL OTHER UTILITIES)	XXXXX	(###) ##-####

STATE & LOCAL GOVERNMENT:

STATE HIGHWAY ADMINISTRATION - CARROLL COUNTY	DISTRICT 7
MIKE MATOV - PROJECT MANAGER	(410) 848-2592
MIKE ZECHMAN - UTILITIES SUPT	(410) 848-9565
LARRY BLOOM - STREET DEPARTMENT SUPT	(410) 848-9000
WOODY BOWEN - CONSTRUCTION INSPECTOR	(410) 848-9473
RALPH McELHINNEY - AFTER HOURS EMERGENCIES	(410) 848-7631



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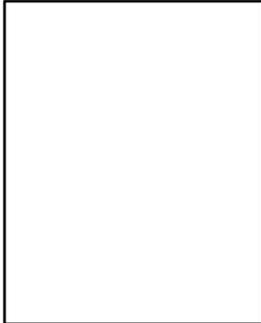
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JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 5 OF 8





MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
2076'	144 COUNT BURIED FIBER OPTIC CABLE
1124'	12 COUNT BURIED FIBER OPTIC CABLE
562'	24 COUNT BURIED FIBER OPTIC CABLE
6	100' FIBER COIL
12	50' FIBER COIL
8	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
2	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 ALL NEW HOPE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREA.
 NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT IN EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.
 THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.



ctc

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7	05-06-14	CLIENTS COMMENTS REVISED
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5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-28-14	CLIENTS COMMENTS REVISED
2	02-20-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

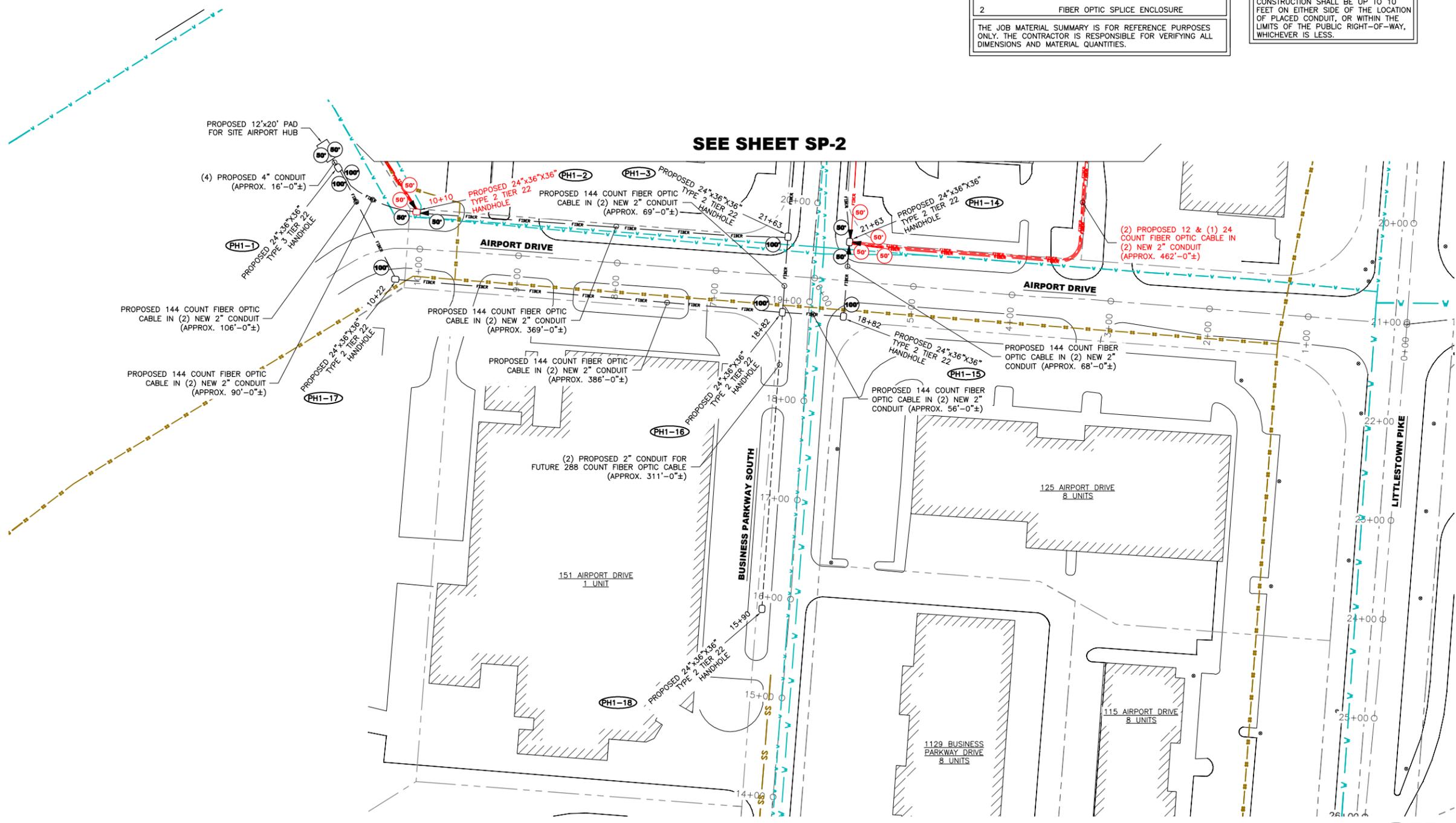
DRAWING TITLE:
LITTLESTOWN PIKE & INDEPENDENCE WAY

DRAWING SHEET:
SP-1

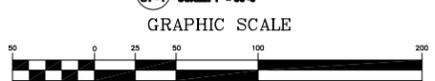
JOB NO:
CITY OF WESTMINSTER
FTTP PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 1
JOB ROUTE:
AIRPORT DRIVE TO LITTLESTOWN PIKE

SHEET NO. 6 OF 8

SEE SHEET SP-2



1 SITE PLAN
 SP-1 SCALE: 1" = 50'-0"



(IN FEET)
 1 inch = 50ft.
 (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



Know what's below.
Call before you dig.

PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE. THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
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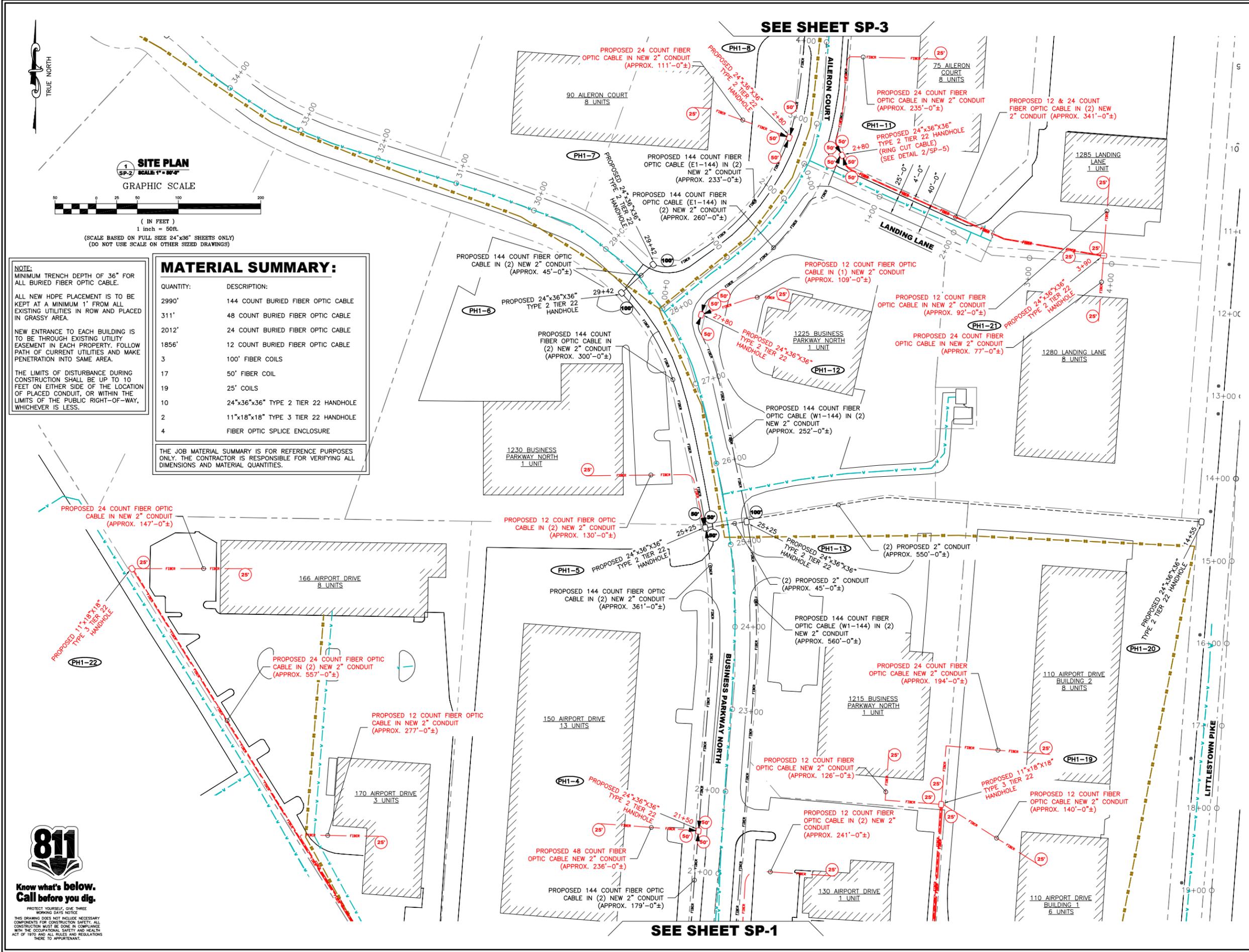
DRAWN BY: JWP
 CHECKED BY:
 SCALE: NOTED
 JOB NO: M214030.00

DRAWING TITLE:
BUSINESS PARKWAY SOUTH & AILERON COURT

DRAWING SHEET:
SP-2

JOB NO:
CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
 JOB NAME:
AIR PARK FTTP BUILD - PHASE 1
 JOB ROUTE:
AIRPORT DRIVE TO LITTLESTOWN PIKE

SHEET NO. 7 OF 8



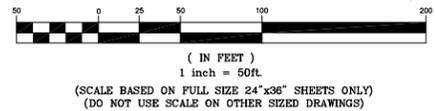
MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
2990'	144 COUNT BURIED FIBER OPTIC CABLE
311'	48 COUNT BURIED FIBER OPTIC CABLE
2012'	24 COUNT BURIED FIBER OPTIC CABLE
1856'	12 COUNT BURIED FIBER OPTIC CABLE
3	100' FIBER COILS
17	50' FIBER COIL
19	25' COILS
10	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
2	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
4	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 ALL NEW HDPE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREA.
 NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT IN EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.
 THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.

SITE PLAN
 SCALE 1" = 80'-0"
 GRAPHIC SCALE



PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
 THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS HERE TO APPURTENANT.

JOB NO:

CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C

JOB NAME:

AIR PARK FTTP BUILD - PHASE 2

JOB ROUTE:

AIRPORT DRIVE TO LITTLESTOWN PIKE

MAYOR
KEVIN R. UTZ

COUNCIL MEMBERS
DR. ROBERT WACK - PRESIDENT
DENNIS FRAZIER
PAUL WHITSON
SUZANNE P. ALBERT
TONY CHIAVACCI

SOIL CONSERVATION DISTRICT

THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.

APPROVED _____ CARROLL S.C.D./DATE

OWNER/DEVELOPER

I CERTIFY THAT THIS PLAN OF SOIL & SEDIMENT CONTROL WILL BE IMPLEMENTED TO THE FULLEST EXTENT, AND ALL STRUCTURES WILL BE INSTALLED TO THE DESIGN SPECIFICATION AS SPELLED OUT IN THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE EVALUATION BY THE CARROLL SOIL CONSERVATION DISTRICT PERSONNEL AND COOPERATING AGENCIES.

DEVELOPER _____ DATE _____

PRINTED NAME OF DEVELOPER _____

DEVELOPER COMPANY NAME _____

DEVELOPER PHONE NUMBER _____

ENGINEER

I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL IS DESIGNED WITH MY PERSONAL KNOWLEDGE OF THIS SITE CONDITION AND HAS BEEN DESIGNED TO THE STANDARDS AND SPECIFICATIONS ADOPTED BY CARROLL SOIL CONSERVATION DISTRICT.

ENGINEER/DATE



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3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

TITLE SHEET

DRAWING SHEET:

T-1

JOB NO:
**CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C**
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
**AIRPORT DRIVE
TO
LITTLESTOWN PIKE**

SHEET NO. 1 OF 18

JOB SUMMARY

THIS JOB CONSISTS OF RUNNING FIBER OPTIC CABLES ALONG THE EXISTING RIGHT OF WAY IN NEW & EXISTING UNDERGROUND FACILITIES STARTING AT 1200 INDEPENDENCE WAY.

THE PRIMARY ROUTE OF THIS JOB IS AS FOLLOWS:

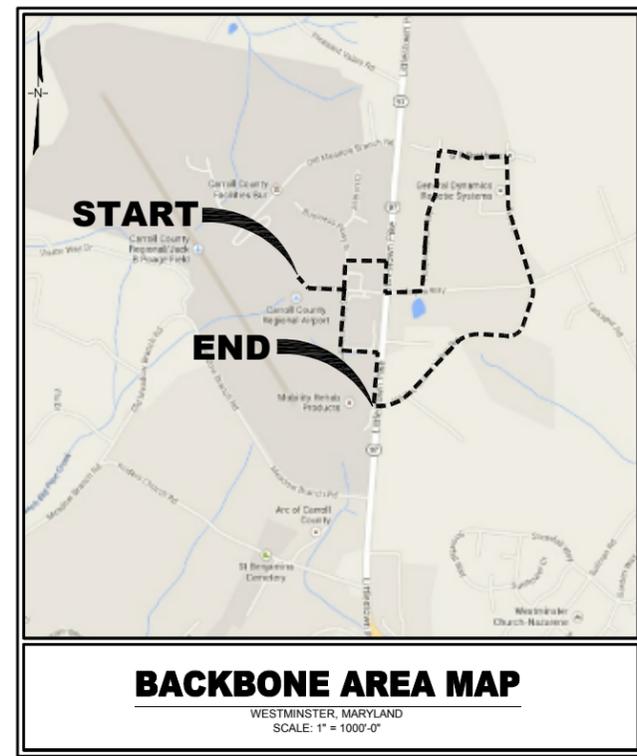
- EAST ALONG AIRPORT DRIVE
- NORTH ALONG BUSINESS PARKWAY NORTH
- EAST TOWARDS LITTLESTOWN PIKE
- SOUTH ALONG LITTLESTOWN PIKE
- EAST ALONG MAGMA WAY
- NORTH ALONG INDEPENDENCE WAY
- EAST ALONG WEST BRANCH ROAD
- SOUTH ALONG TECH COURT
- SOUTHWEST ALONG OLD BACHMANS VALLEY ROAD

THIS ROUTE CONTAINS 6.60 MILES OF FIBER OPTIC CABLE, COVERING A TOTAL LINEAR PATH OF 4.89 MILES.

JOB MATERIAL SUMMARY

QUANTITY:	DESCRIPTION:
19,005.8 FT.	288 COUNT BURIED FIBER OPTIC CABLE
4,119.5 FT.	24 COUNT BURIED FIBER OPTIC CABLE
12,037.3 FT.	12 COUNT BURIED FIBER OPTIC CABLE
24	100' FIBER COIL
55	50' FIBER COIL
39	25' FIBER COIL
12	FIBER OPTIC SPLICE ENCLOSURE
31	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
13	11"x18"x18" TYPE 3 TIER 22 HANDHOLE

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SHEET INDEX

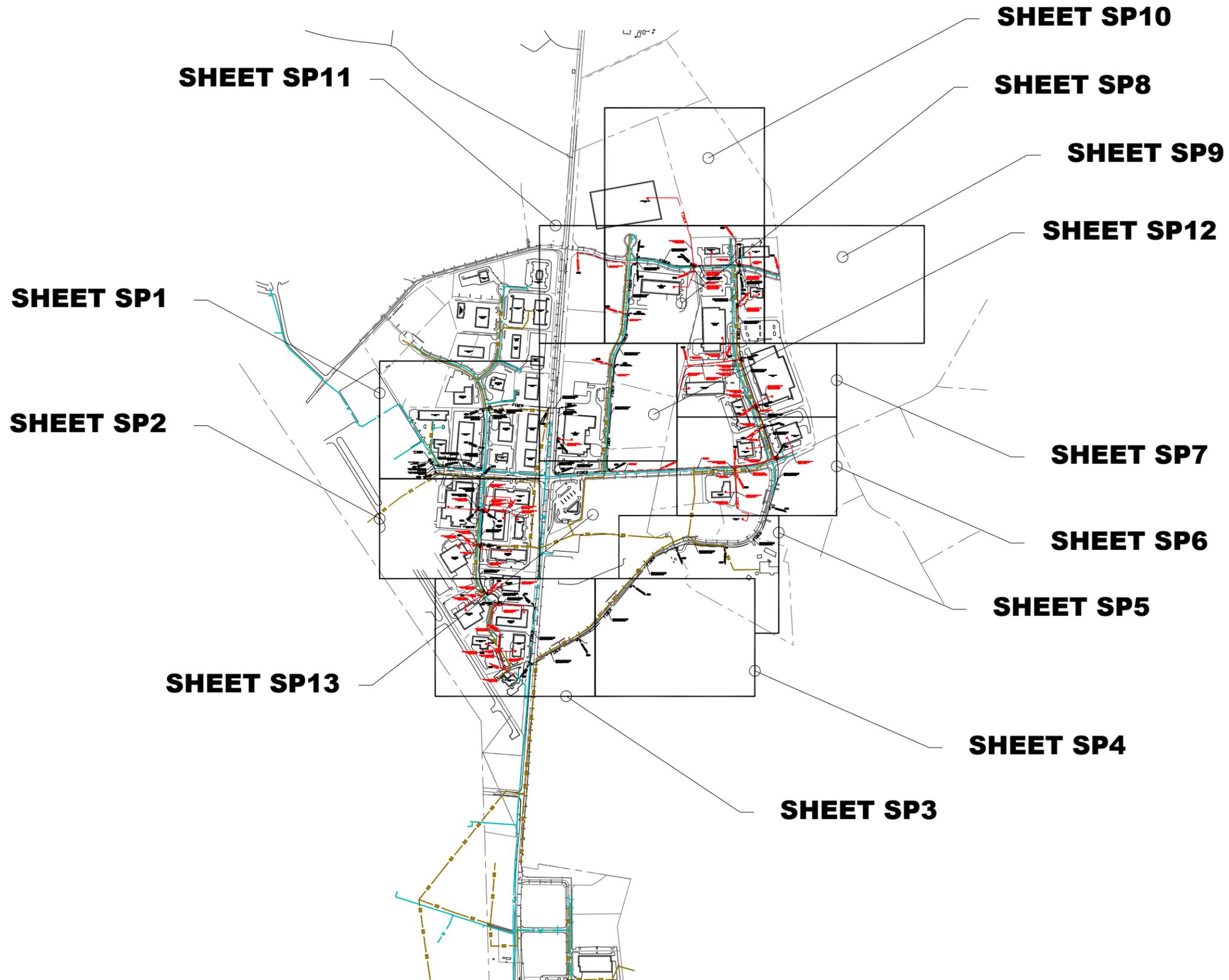
SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
SH-1	SHEET INDEX
GN-1	GENERAL NOTES
GN-2	SYMBOLS, ABBREVIATIONS AND DETAILS
GN-3	CONTACT SHEET
SP-1	BUSINESS PARKWAY SOUTH & AIRPORT DRIVE
SP-2	BUSINESS PARKWAY SOUTH
SP-3	OLD BACHMANS VALLEY ROAD & LITTLESTOWN PIKE
SP-4	OLD BACHMANS VALLEY ROAD
SP-5	OLD BACHMANS VALLEY ROAD
SP-6	TECH COURT & MAGNA WAY
SP-7	TECH COURT
SP-8	INDEPENDENCE WAY & WEST BRANCH ROAD
SP-9	WEST BRANCH ROAD
SP-10	1 ARTHUR PECK DRIVE
SP-11	LITTLESTOWN PIKE & WEST BRANCH ROAD
SP-12	LITTLESTOWN PIKE & INDEPENDENCE WAY
SP-13	LITTLESTOWN PIKE & MAGNA WAY



LEGEND:

NO FLOOD PLAIN IN THIS SECTION

NO WETLANDS IN THIS SECTION



SCHEDULE OF REVISIONS

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DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

SHEET INDEX

DRAWING SHEET:

SH-1

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 2 OF 18



ctc

SCHEDULE OF REVISIONS

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DRAWN BY:	JWP
CHECKED BY:	
SCALE:	NOTED
JOB NO:	M214030.00

DRAWING TITLE:

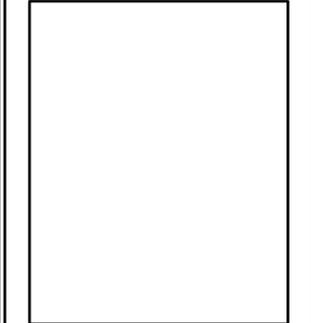
GENERAL NOTES

DRAWING SHEET:

GN-1

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 3 OF 18



EROSION SEDIMENT CONTROL NOTES:

- ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
- AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
- FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE B-4-4 AND B-4-5.
- MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A.1.B FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1.
- THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN B-4-2.
- THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
- NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THEN 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION.
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

CONSTRUCTION NOTES:

- VERIFICATION OF THE LOCATION OF EXISTING UTILITY CROSSINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
- CALL THE LOCAL UTILITY ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY OF ANY CONSTRUCTION. 1-800-257-7777
- MAINTAIN A 12" VERTICAL SEPARATION BETWEEN PROPOSED CONDUIT AND OTHER UTILITIES.
- CONDUIT CAPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER INSTALLATION.
- INSTALL ALL DUCTS WILL BE PROOFED USING A MANDRILL ¼" SMALLER THAN THE PIPE ID PVC AS SHOWN ON DRAWINGS.
- THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 36".
- MAXIMUM CABLE INSTALLATION TENSION WILL NOT EXCEED 600 POUNDS. A 600 POUND BREAKAWAY SWIVEL WILL BE USED DURING PULLING.
- THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR WILL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO CITY OF WESTMINSTER GOVERNMENT WITHIN 14 DAYS OF COMPLETION OF THE WORK.
- CONDUITS WILL BE TERMINATED ABOVE THE MIDPOINT OF MANHOLE.
- PLACE 100 FEET OF SLACK TO BE LEFT ON ALL CABLE ENDS AT SPLICE/LATERAL POINTS. AT ALL OTHER HANDHOLES LEAVE 50 FEET OF SLACK.
- BURIED POWER LINES: HAND DIG AS REQUIRED.
- BURIED FIBER OPTIC TELEPHONE CABLES: HAND DIG AS REQUIRED.
- BURIED CATV CABLES: HAND DIG AS REQUIRED.
- BURIED GAS LINES: HAND DIG AS REQUIRED.
- NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT ON EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.

GENERAL NOTES:

- ALL WORK WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, OSHA, NESC, DOT, RPA, ETC. GENERAL NOTES WILL APPLY TO ALL DRAWINGS.
- THE CONTRACTOR WILL NOTIFY (IF APPLICABLE) THE ADJACENT PROPERTY OWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION.
- FOLLOW MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES FOR TRAFFIC CONTROL.
- PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED ON TO PRIVATE PROPERTY.
- NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
- NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORKING PERIODS.
- NO EQUIPMENT OR MATERIALS MAY BE STORED ON SIDEWALKS.
- EXCAVATED MATERIAL WILL BE TEMPORARILY PLACED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP IMMEDIATELY.
- TEMPORARY ROADWAY RESTORATION WILL CONSIST OF NON-SHRINKABLE GROUT AND MATCH THE EXISTING ASPHALT CAP THICKNESS.
- MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
- ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE SPECIFICATIONS AND STANDARDS.

GENERAL LAND CONSERVATION NOTES:

- FOLLOW 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, VOL. 4.
- TRENCHES SHALL BE COMPACTED, SEEDED, AND MULCHED. AT THE END OF EACH WORK DAY.
- ALL TEMPORARY EARTH BERMS, DIVERSION DIKES, SILT DAMS, AND SOIL STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY IS REQUIRED.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SILT TRAPS MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO THE RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED UPON THE APPROVAL OF CARROLL COUNTY, AND ALL DENUDED AREAS SHALL BE STABILIZED WITH VEGETATION.
- NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPEN AT ONE TIME.
- EXCAVATION MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
- EFFLUENT FROM THE DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- WHERE CONSTRUCTION VEHICLES ACCESS ROUTES, INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH WORK DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

MAINTENANCE PROGRAM:

- ALL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGE STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY TO AVOID DAMAGE TO DOWNSTREAM PROPERTY.
- AS AREAS ARE BROUGHT TO EITHER GRADE OR SUBGRADE THEY SHOULD BE STABILIZED BY EITHER PLACING GRAVEL SUBBBASE OR BY SEEDING AS EARLY AS POSSIBLE.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF SLOPE AT THE END OF EACH DAY OF OPERATION.
- ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN FIVE (5) DAYS OF COMPLETION OF GRADING.

SURFACE FEATURES / AERIAL UTILITIES - LINETYPES & SYMBOLS:

EXISTING:

- AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C.
- PLENUM INNERDUCT
- TS---TS---TS--- TRAFFIC SIGNAL
- GAS---GAS---GAS--- GAS
- V---V---V--- WATER
- SS---SS---SS--- SANITARY SEWER
- ST---ST---ST--- STORM SEWER
- BGE---BGE---BGE--- BGE POWER
- VER---VER---VER--- VERIZON LINE
- AP---AP---AP--- ALLEGANY POWER
- CENTERLINE
- EDGE OF CURB
- EDGE OF PAVEMENT
- ===== RAIL ROAD TRACKS
- RIGHT OF WAY
- FENCE
- SIDEWALK

- ⊗ JOINT-USE / POWER POLE
- ⊗ UTILITY POLE
- ⊗ CONCRETE POLE
- ⊗ STEEL POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT/BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ⊗ DOWN GUY
- ⊗ S/W ANCHOR & GUY
- ⊗ ANCHOR & GUY
- ⊗ ANCHOR
- ⊗ VGR GROUND
- ⊗ TP TEST PIT
- ⊗ FIBER OPTIC CABLE MARKER
- ⊗ TELCO PED
- ⊗ CATV VAULT
- ⊗ CATV PED
- ⊗ PROPERTY CORNER
- ⊗ FOUND MONUMENT
- ⊗ DRAIN/INLET
- ⊗ WATER METER
- ⊗ FH FIRE HYDRANT
- ⊗ WATER VALVE
- ⊗ W WATER HANDHOLE / VAULT
- ⊗ CATCH BASIN
- ⊗ S SANITARY SEWER MANHOLE
- ⊗ SD STORM SEWER MANHOLE
- ⊗ GAS VALVE
- ⊗ GAS METER
- ⊗ G GAS HANDHOLE / VAULT

- TCC TRAFFIC SIGNAL CONTROL BOX
- E POWER JUNCTION BOX / PEDESTAL
- ⊗ POWER MANHOLE
- ⊗ TRAFFIC SIGNAL POLE
- R/R CROSSING SIGNAL
- ⊗ SIGN
- ⊗ SIGN (DOUBLE POST)
- ⊗ LUMINAIRE / STREET LIGHT
- ⊗ TREE
- ⊗ MAILBOX
- ⊗ CABINET
- ⊗ TELEPHONE MANHOLE
- ⊗ EXISTING HANDHOLE
- ⊗ RIPRAP

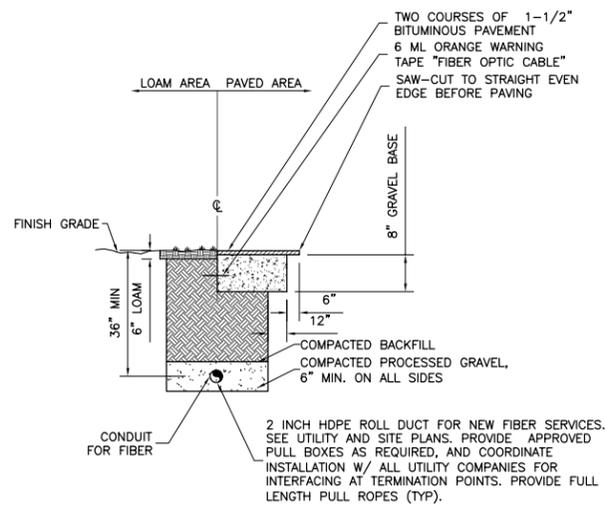
PROPOSED:

- FIBER --- AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C. IN CONDUIT
- PLENUM INNERDUCT
- FIBER --- ADD/ALTERNATE F.O.C.

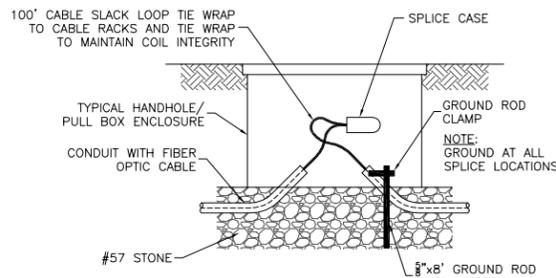
- ⊗ JOINT-USE / POWER POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT / BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ⊗ DOWN GUY
- ⊗ S/W ANCHOR & GUY
- ⊗ ANCHOR & GUY
- ⊗ ANCHOR
- ⊗ VGR GROUND
- ⊗ PROPOSED VAULT

ABBREVIATIONS:

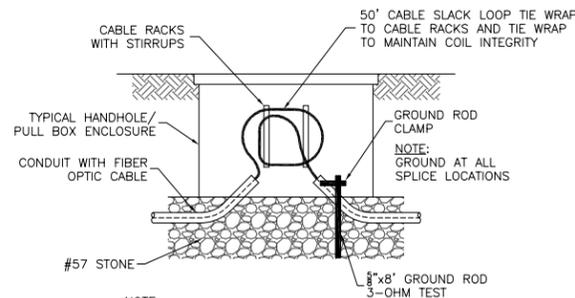
- E/W EQUIPPED WITH
- E/O EAST OF
- F.O.C. FIBER OPTIC CABLE
- N/O NORTH OF
- O/S OFFSET
- S/O SOUTH OF
- W/O WEST OF
- AB ABANDONED
- CA CABLE
- D/W DRIVEWAY
- DG DOWNGUY
- R/W RIGHT OF WAY
- S/W SIDEWALK
- C/L CENTERLINE
- E/P EDGE OF PAVEMENT
- B/C BACK OF CURB
- OD OUTSIDE DIAMETER
- PL PLACE
- SL STREET LIGHT
- VZ VERIZON
- WT WEIGHT
- FS FIELD SIDE
- BIP BLACK IRON PIPE
- BOW BACK OF SIDEWALK
- DOC DEPTH OF COVER
- FDC FIBER DUCT IN CONCRETE
- GIP GALVANIZED IRON PIPE
- GRC GALVANIZED RIGID CONDUIT
- HOG HOT DIPPED GALVANIZED
- ID INNERDUCT
- PUE PUBLIC UTILITY EASEMENT
- RPL REPLACE
- SCA SIDE CABLE ARM
- SLP STREET LIGHT PROTECTED
- SLU STREET LIGHT UNPROTECTED



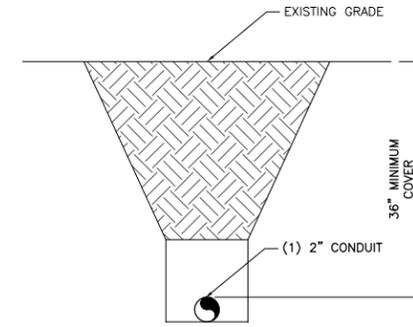
1 TRENCHING DETAIL
GN-2 N.T.S.



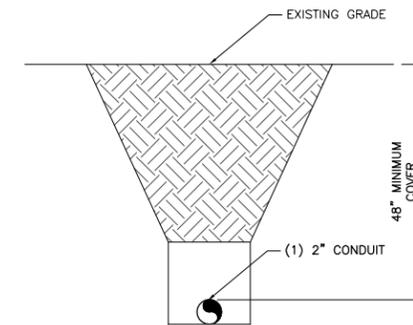
4 TYPICAL HANDHOLE WITH SPLICE BOX
GN-2 N.T.S.



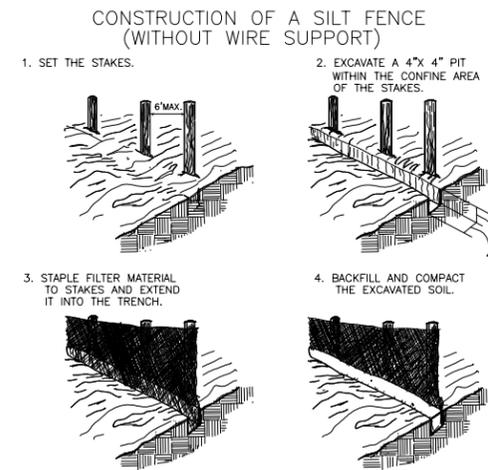
5 TYPICAL HANDHOLE WITH COIL
GN-2 N.T.S.



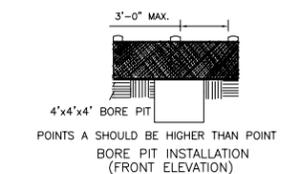
2 TYPICAL DRIVEWAY BORE DETAIL
GN-2 N.T.S.



3 TYPICAL ROAD BORE DETAIL
GN-2 N.T.S.



SHEET FENCE INSTALLATION (PERSPECTIVE VIEW)
ONE SIDE SHOWN FOR CLARITY BORE PIT NOT SHOWN FOR CLARITY



6 TYPICAL SILT FENCE DETAIL
GN-2 N.T.S.

NOTE:

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100' IN ADVANCE OF TRENCHES, PLOWING OR BORING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-07-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

SYMBOLS, ABBREVIATIONS, & DETAILS

DRAWING SHEET:

GN-2

JOB NO: CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME: AIR PARK FTTP - PHASE 2
JOB ROUTE: AIRPORT DRIVE TO LITTLESTOWN PIKE

SHEET NO. 4 OF 18

CONTACT SHEET

ENGINEERING CONTRACTOR:

CTC: (301) 933-1488
 PROJECT MANAGER: MITCH HERGETT (406) 579-1858
 SENIOR OSP ENGINEER: JIM JORDAN (410) 231-0703

CONSTRUCTION CONTRACTOR:

NAME OF FIRM: (###) ###-####
 PROJECT COORDINATOR: (###) ###-####
 PROJECT SUPERINTENDENT: (###) ###-####

UTILITIES:

MISS UTILITY MD:	24 HOUR NUMBER	(800) 257-7777
COLONIAL PIPELINE:	JOHN WINTERS	(703) 447-7331
EMERGENCY 24 HOUR NUMBER		(800) 926-2728
WASHINGTON GAS	CHUCK WHITLEY	(703) 750-4205
EMERGENCY 24 HOUR NUMBER		(703) 750-1000
COLONIAL PIPE LINE	BUZZ LEWANDOWSKI	(410) 549-4128
EMERGENCY 24 HOUR NUMBER (LOCAL)		(410) 549-4120
COLUMBIA GAS	KEITH GARRISON	(703) 759-2115
EMERGENCY 24 HOUR NUMBER		(800) 835-7191
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (WATER & SEWER)	NAME	(###) ##-####
	24 HOUR EMERGENCY	(###) ##-####
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (ALL OTHER UTILITIES)	NAME	(###) ##-####

STATE & LOCAL GOVERNMENT:

STATE HIGHWAY ADMINISTRATION – CARROLL COUNTY	DISTRICT 7
MIKE MATOV – PROJECT MANAGER	(410) 848-2592
MIKE ZECHMAN – UTILITIES SUPT	(410) 848-9565
LARRY BLOOM – STREET DEPARTMENT SUPT	(410) 848-9000
WOODY BOWEN – CONSTRUCTION INSPECTOR	(410) 848-9473
RALPH McELHINNEY – AFTER HOURS EMERGENCIES	(410) 848-7631



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

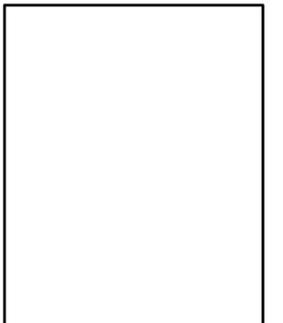
CONTACT SHEET

DRAWING SHEET:

GN-3

**JOB NO:
 CITY OF WESTMINSTER FTTP
 PILOT - PROJECT
 NO. R-265-C
 JOB NAME:
 AIR PARK FTTP - PHASE 2
 JOB ROUTE:
 AIRPORT DRIVE
 TO
 LITTLESTOWN PIKE**

SHEET NO. 5 OF 18





ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-07-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE: BUSINESS PARKWAY SOUTH & AIRPORT DRIVE

DRAWING SHEET:

SP-1

JOB NO: CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME: AIR PARK FTTP - PHASE 2
JOB ROUTE: AIRPORT DRIVE TO LITTLESTOWN PIKE

SHEET NO. 6 OF 18

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
3089'	288 COUNT BURIED FIBER OPTIC CABLE
9	100' FIBER COIL
2	50' FIBER COIL

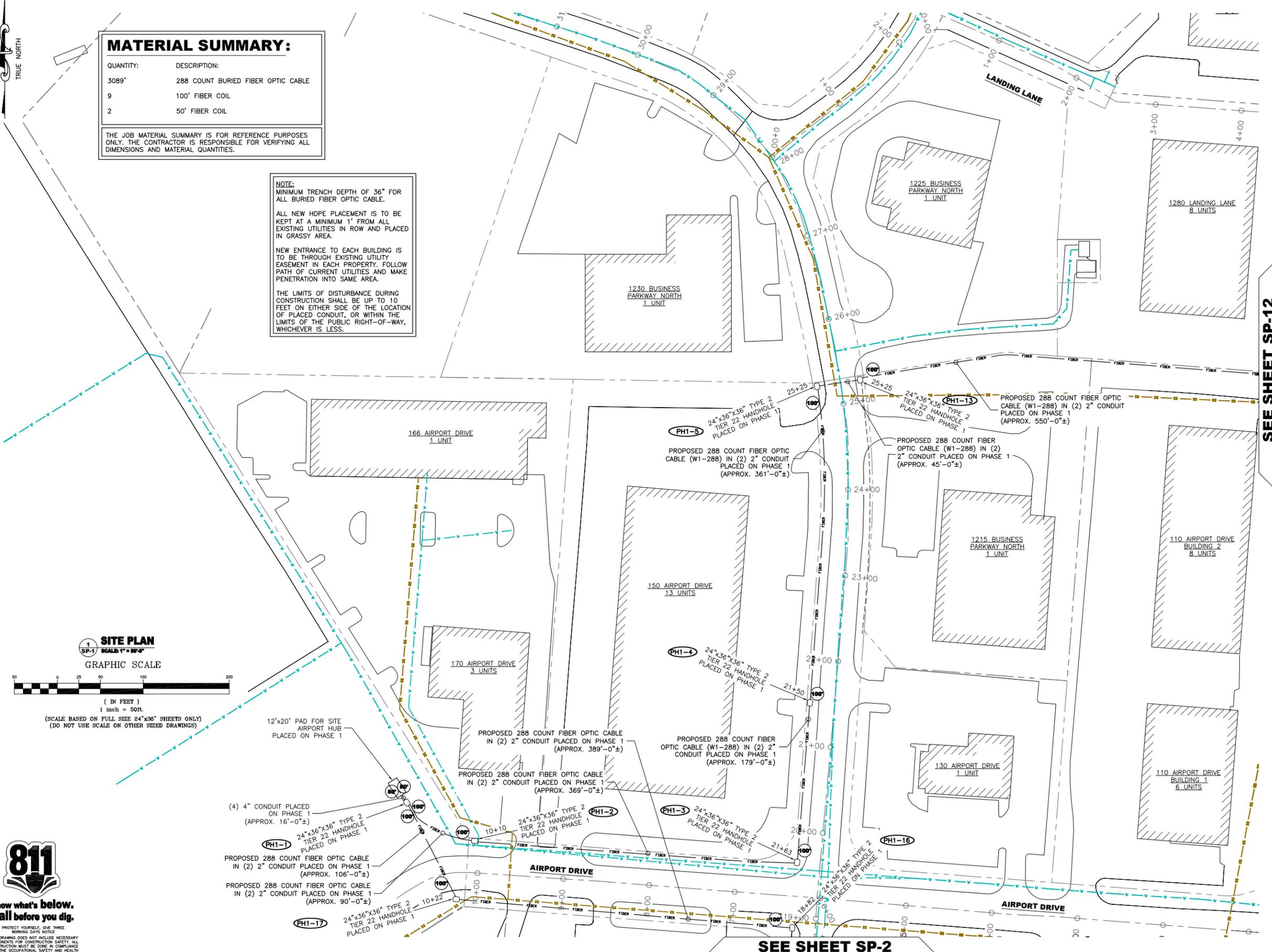
THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.

ALL NEW HDPE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREA.

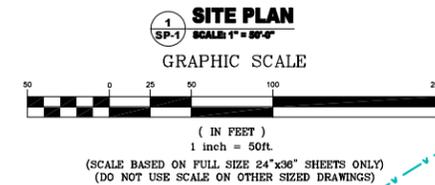
NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT IN EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.

THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.



SEE SHEET SP-12

SEE SHEET SP-2



PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
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ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
BUSINESS PARKWAY SOUTH

DRAWING SHEET:
SP-2

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

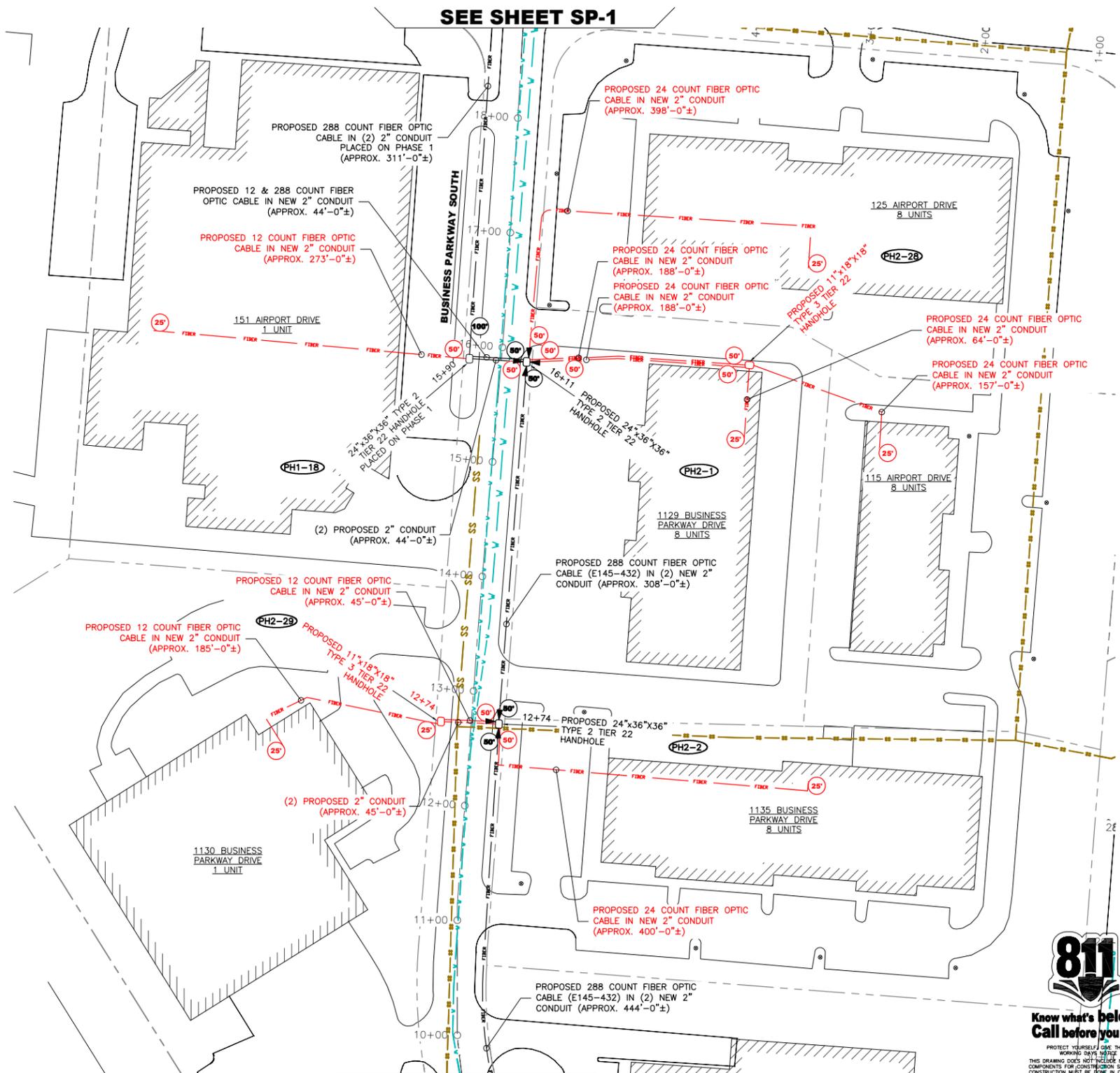
SHEET NO. 7 OF 18



Know what's below.
Call before you dig.
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SEE SHEET SP-1

SEE SHEET SP-3



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1407'	288 COUNT BURIED FIBER OPTIC CABLE
1795'	24 COUNT BURIED FIBER OPTIC CABLE
678'	12 COUNT BURIED FIBER OPTIC CABLE
1	100' FIBER COIL
13	50' FIBER COIL
7	25' FIBER COIL
2	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
2	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
2	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
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 ALL NEW HOPE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREA.
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1 SITE PLAN
SP-2 SCALE 1" = 50'-0"

GRAPHIC SCALE



(IN FEET)
 1 inch = 50ft.
 (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
 CHECKED BY:
 SCALE: NOTED
 JOB NO: M214030.00

DRAWING TITLE:
**OLD BACHMANS VALLEY ROAD
 &
 LITTLESTOWN PIKE**

DRAWING SHEET:
SP-3

JOB NO:
**CITY OF WESTMINSTER FTTP
 PILOT - PROJECT
 NO. R-265-C**
 JOB NAME:
AIR PARK FTTP - PHASE 2
 JOB ROUTE:
**AIRPORT DRIVE
 TO
 LITTLESTOWN PIKE**

SHEET NO. 8 OF 18

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
2199'	288 COUNT BURIED FIBER OPTIC CABLE
3696'	12 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COILS
12	50' FIBER COILS
10	25' FIBER COILS
6	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
2	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
2	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

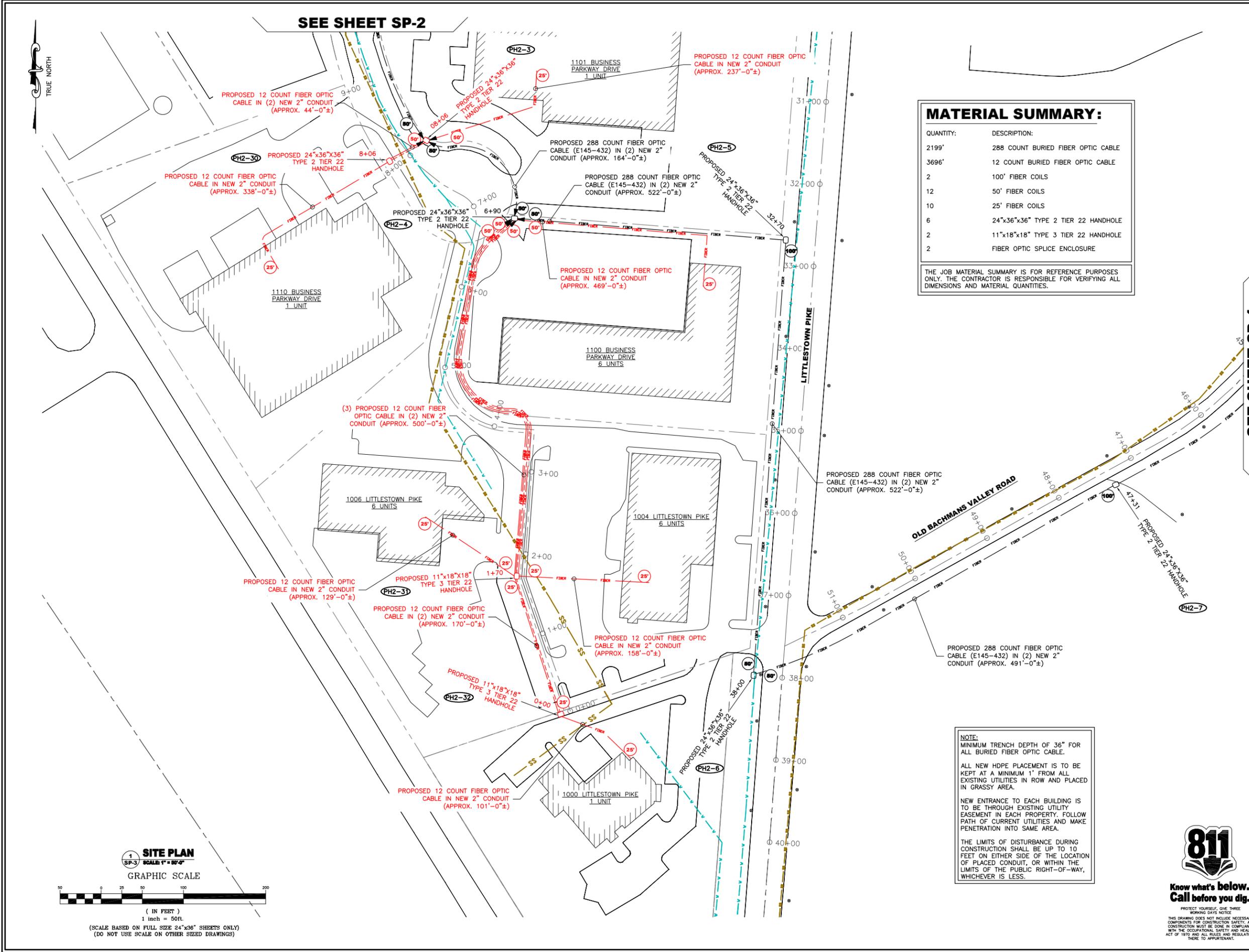
NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
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SEE SHEET SP-2

SEE SHEET SP-4



1 SITE PLAN SP-3 SCALE 1" = 50'-0"

GRAPHIC SCALE



(IN FEET)
 1 inch = 50ft.
 (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



SEE SHEET SP-5

SEE SHEET SP-3

OLD BACHMANS VALLEY ROAD

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 688'-0"±)

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

FH2-B

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
788'	288 COUNT BURIED FIBER OPTIC CABLE
1	100' FIBER COIL
1	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
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SITE PLAN

SCALE: 1" = 50'-0"



(IN FEET)
1 inch = 50ft.
(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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8	05-16-14	EROSION CONTROL ADDED
7	05-07-14	CLIENTS COMMENTS REVISED
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5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:
OLD BACHMANS VALLEY ROAD

DRAWING SHEET:
SP-4

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 9 OF 18



Know what's below.
Call before you dig.

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ctc

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2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

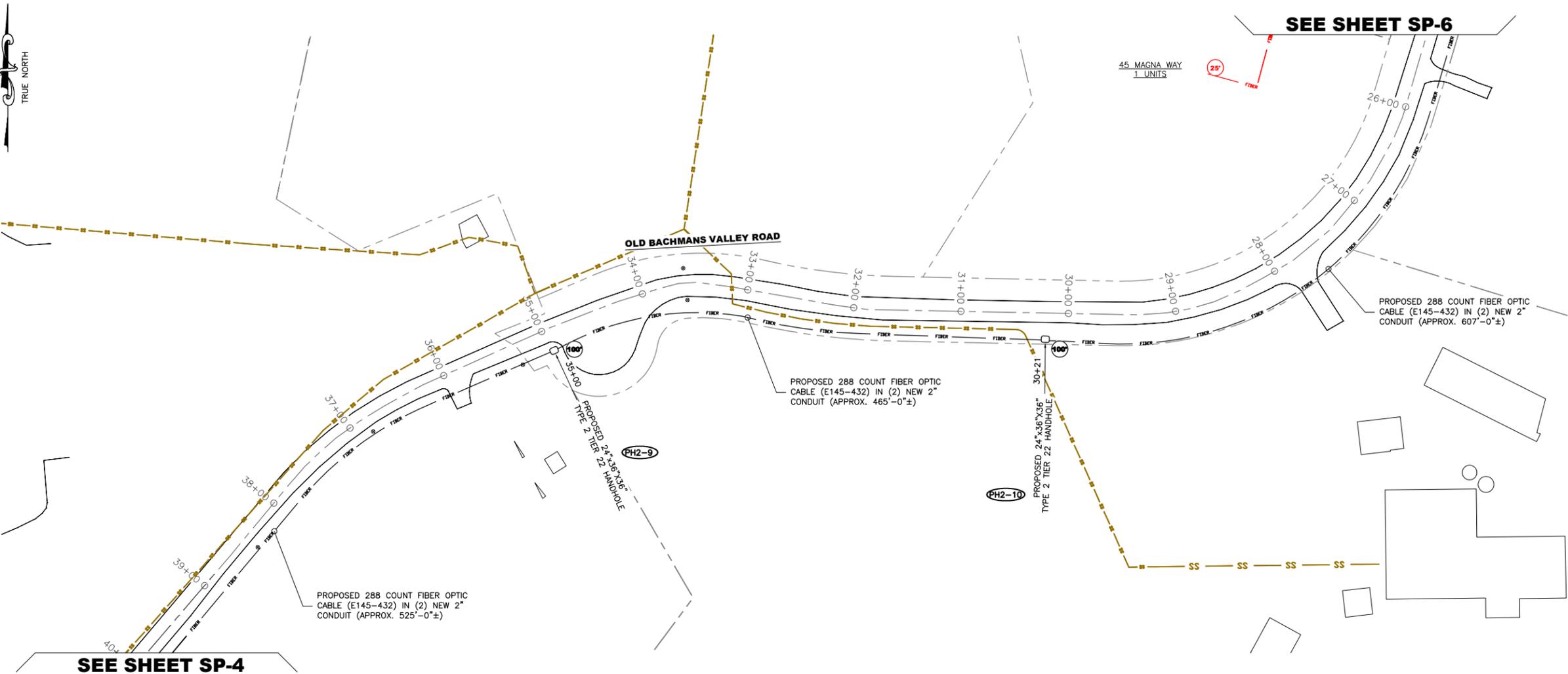
OLD BACHMANS VALLEY ROAD

DRAWING SHEET:

SP-5

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 10 OF 18



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1797'	288 COUNT BURIED FIBER OPTIC CABLE
25'	12 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COIL
1	25' FIBER COIL
2	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

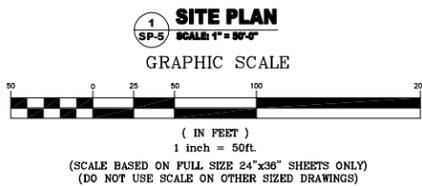
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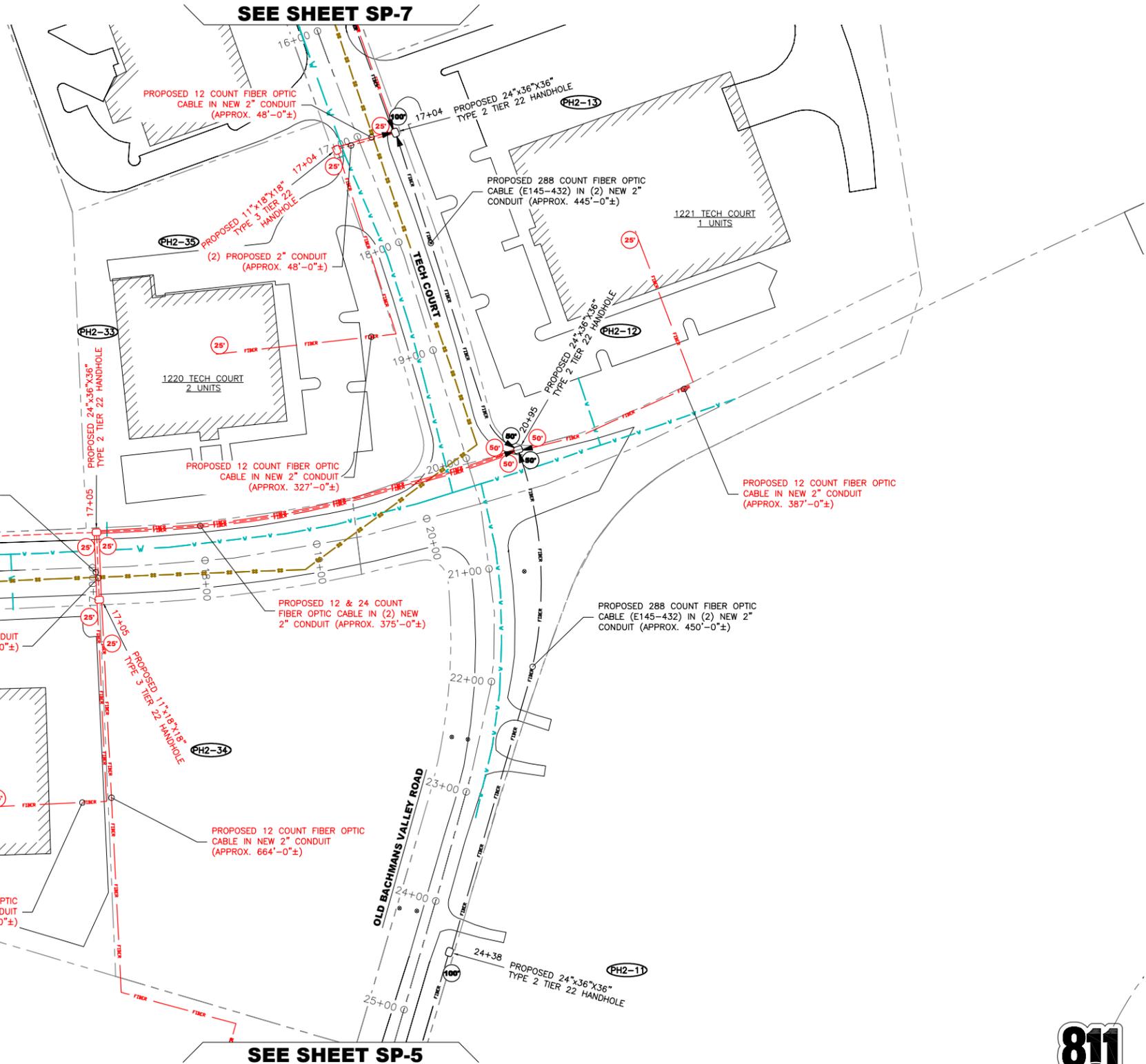
MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1195'	288 COUNT BURIED FIBER OPTIC CABLE
830'	24 COUNT BURIED FIBER OPTIC CABLE
2080'	12 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COILS
5	50' FIBER COILS
9	25' FIBER COILS
3	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
3	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
2	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
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SEE SHEET SP-13



SEE SHEET SP-5

1 SITE PLAN
 SP-6 SCALE: 1" = 50'-0"

GRAPHIC SCALE



(IN FEET)
 1 inch = 50ft.
 (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
TECH COURT & MAGNA WAY

DRAWING SHEET:
SP-6

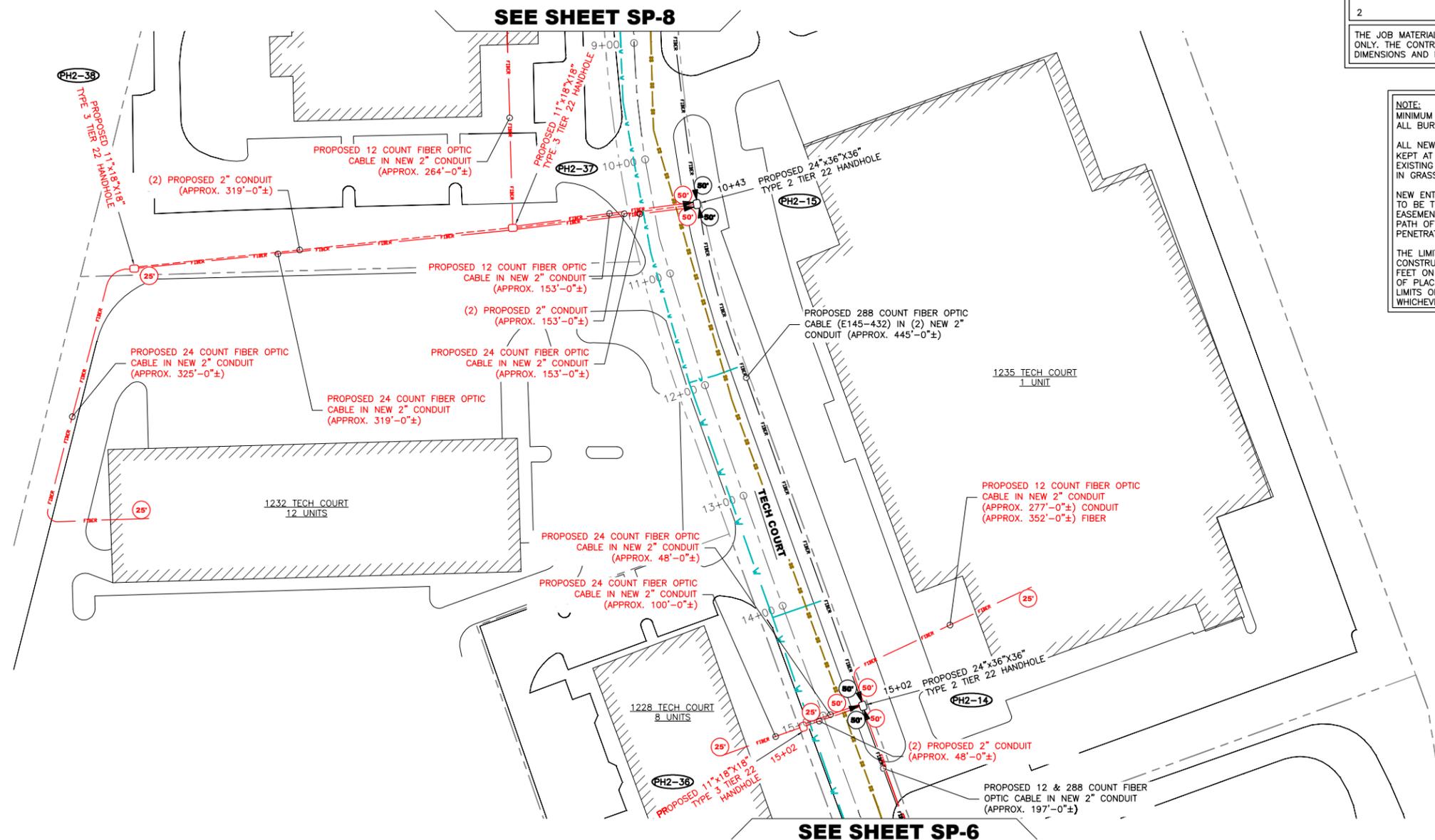
JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 11 OF 18



Know what's below.
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MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
842'	288 COUNT BURIED FIBER OPTIC CABLE
1120'	24 COUNT BURIED FIBER OPTIC CABLE
1141'	12 COUNT BURIED FIBER OPTIC CABLE
9	50' FIBER COIL
5	25' FIBER COIL
2	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
3	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
2	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 ALL NEW HDPE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREA.
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SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-07-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
TECH COURT

DRAWING SHEET:
SP-7

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 12 OF 18

1 SITE PLAN
 SP-7
 SCALE: 1" = 50'-0"

GRAPHIC SCALE



(IN FEET)
 1 inch = 50ft.

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



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ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
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4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

INDEPENDENCE WAY & WEST BRANCH ROAD

DRAWING SHEET:

SP-8

JOB NO: CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
 JOB NAME: AIR PARK FTTP - PHASE 2
 JOB ROUTE: AIRPORT DRIVE TO LITTLESTOWN PIKE

SHEET NO. 13 OF 18



Know what's below. Call before you dig.

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SEE SHEET SP-10

SEE SHEET SP-11

SEE SHEET SP-9

SEE SHEET SP-7

SEE SHEET SP-12

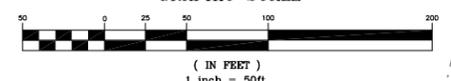
MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
3016'	288 COUNT BURIED FIBER OPTIC CABLE
2892'	12 COUNT BURIED FIBER OPTIC CABLE
4	100' FIBER COILS
11	50' FIBER COILS
5	25' FIBER COILS
8	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
2	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
3	FIBER OPTIC SPLICE ENCLOSURES

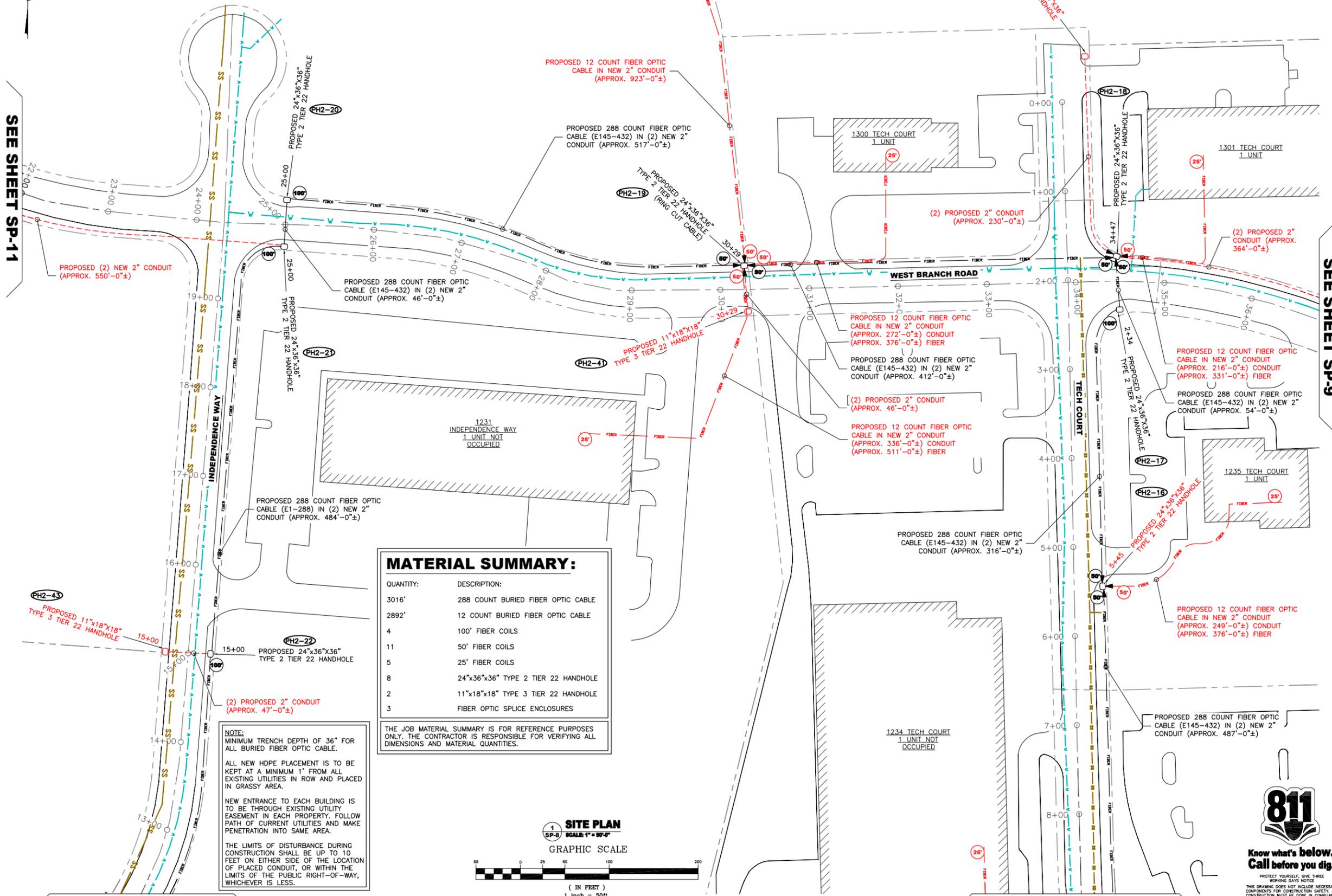
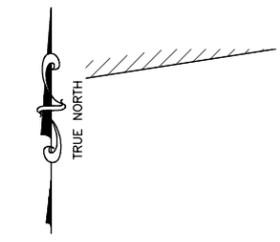
THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
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SITE PLAN SP-8 SCALE: 1" = 50'-0"



(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY) (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



PROPOSED 12 COUNT FIBER OPTIC CABLE IN NEW 2" CONDUIT (APPROX. 923'-0"±)

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 517'-0"±)

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE (RING CUT CABLE)

(2) PROPOSED 2" CONDUIT (APPROX. 230'-0"±)

(2) PROPOSED 2" CONDUIT (APPROX. 364'-0"±)

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 46'-0"±)

PROPOSED 12 COUNT FIBER OPTIC CABLE IN NEW 2" CONDUIT (APPROX. 272'-0"±) CONDUIT (APPROX. 376'-0"±) FIBER

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 412'-0"±)

(2) PROPOSED 2" CONDUIT (APPROX. 46'-0"±)

PROPOSED 12 COUNT FIBER OPTIC CABLE IN NEW 2" CONDUIT (APPROX. 338'-0"±) CONDUIT (APPROX. 511'-0"±) FIBER

PROPOSED 12 COUNT FIBER OPTIC CABLE IN NEW 2" CONDUIT (APPROX. 216'-0"±) CONDUIT (APPROX. 331'-0"±) FIBER

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 54'-0"±)

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 316'-0"±)

PROPOSED 12 COUNT FIBER OPTIC CABLE IN NEW 2" CONDUIT (APPROX. 249'-0"±) CONDUIT (APPROX. 376'-0"±) FIBER

PROPOSED 288 COUNT FIBER OPTIC CABLE (E145-432) IN (2) NEW 2" CONDUIT (APPROX. 487'-0"±)

PROPOSED (2) NEW 2" CONDUIT (APPROX. 550'-0"±)

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

PROPOSED 288 COUNT FIBER OPTIC CABLE (E1-288) IN (2) NEW 2" CONDUIT (APPROX. 484'-0"±)

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE

(2) PROPOSED 2" CONDUIT (APPROX. 47'-0"±)

PROPOSED 11"x18"x18" TYPE 3 TIER 22 HANDHOLE

PROPOSED 11"x18"x18" TYPE 3 TIER 22 HANDHOLE

PROPOSED 24"x36"x36" TYPE 2 TIER 22 HANDHOLE



MATERIAL SUMMARY:

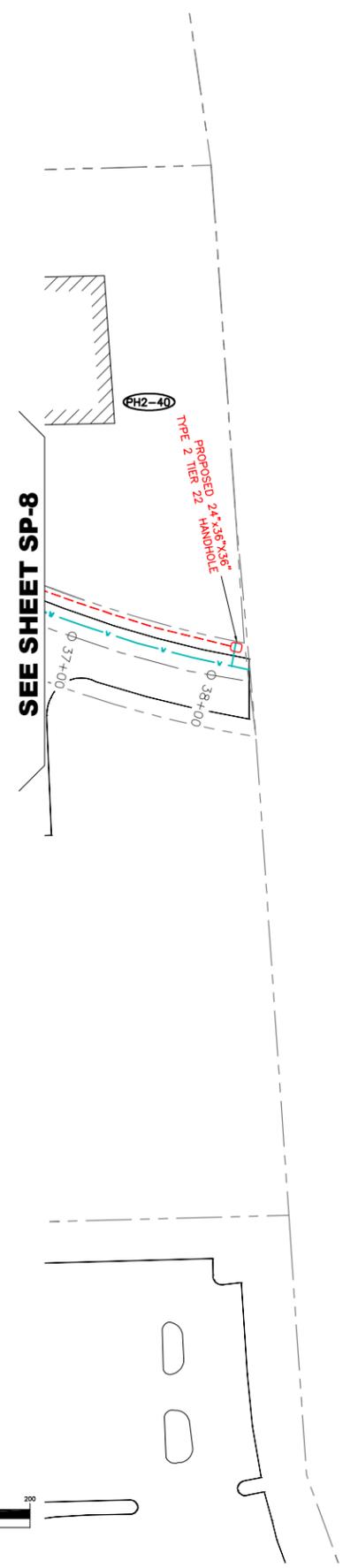
QUANTITY:	DESCRIPTION:
1	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
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SCHEDULE OF REVISIONS

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8	05-16-14	EROSION CONTROL ADDED
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3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

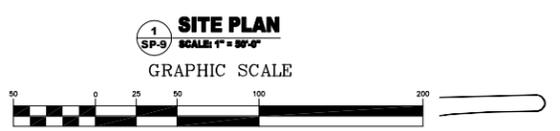
DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
WEST BRANCH ROAD

DRAWING SHEET:
SP-9

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 14 OF 18



1 SITE PLAN
SP-9 SCALE 1" = 50'-0"
GRAPHIC SCALE

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)

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ctc

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4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
1 ARTHUR PECK DRIVE

DRAWING SHEET:
SP-10

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

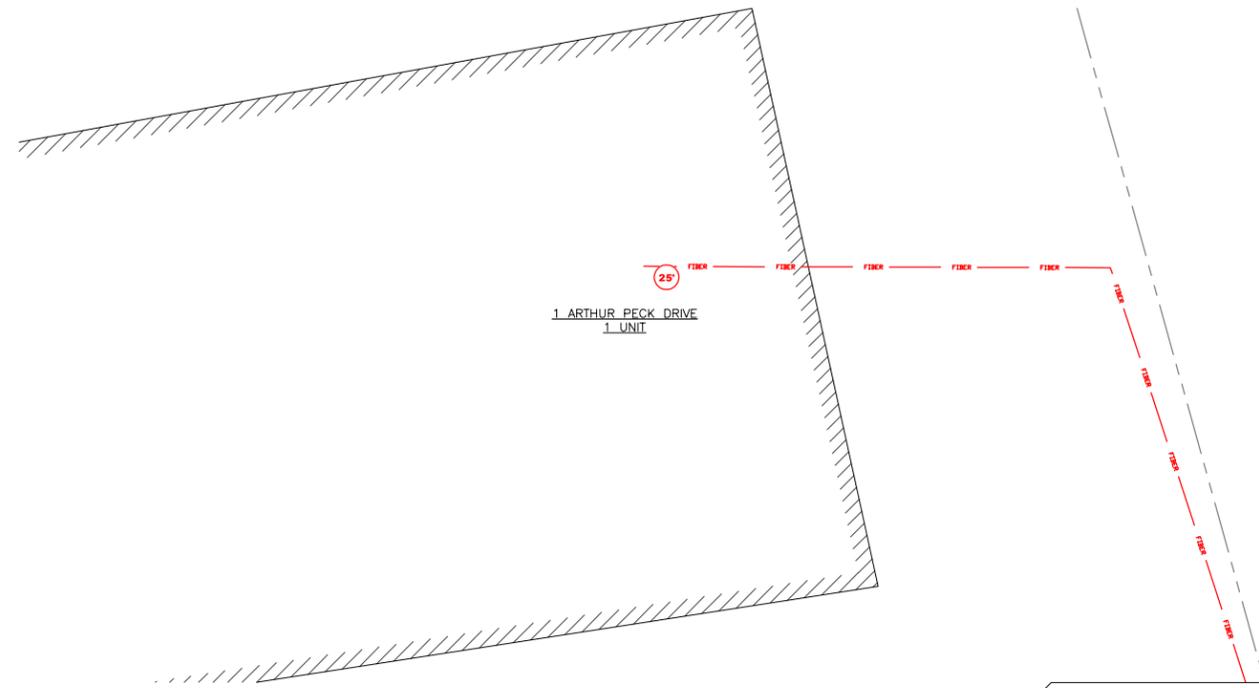
SHEET NO. 15 OF 18

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
25'	12 COUNT BURIED FIBER OPTIC CABLE
1	25' FIBER COIL

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

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SEE SHEET SP-8

1 SITE PLAN
 SP-10 SCALE: 1" = 50'-0"



(IN FEET)
 1 inch = 50ft.

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



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MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

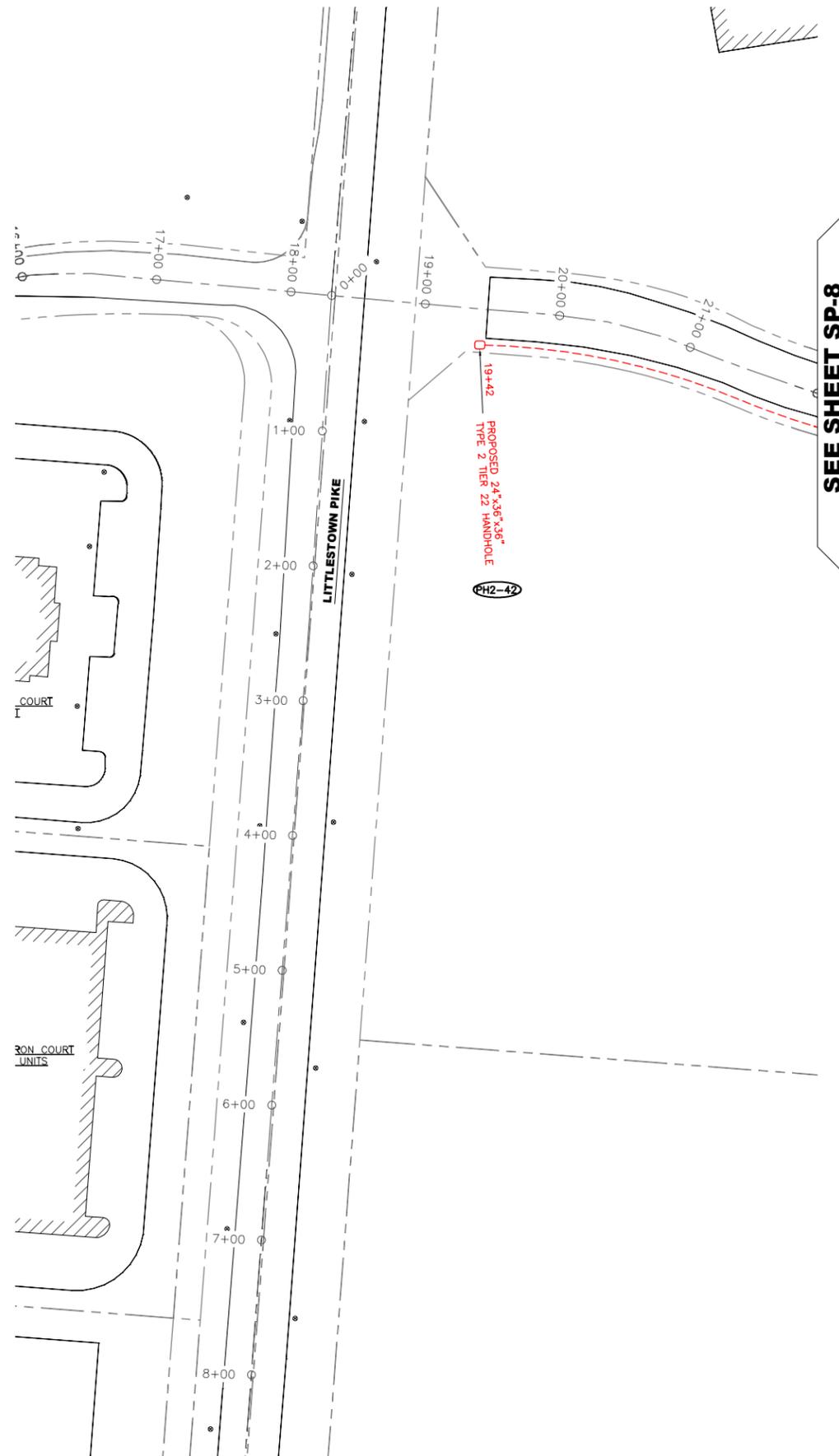
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ctc

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4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

**LITTLESTOWN PIKE
&
WEST BRANCH ROAD**

DRAWING SHEET:

SP-11

**JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE**

SHEET NO. 16 OF 18



**Know what's below.
Call before you dig.**

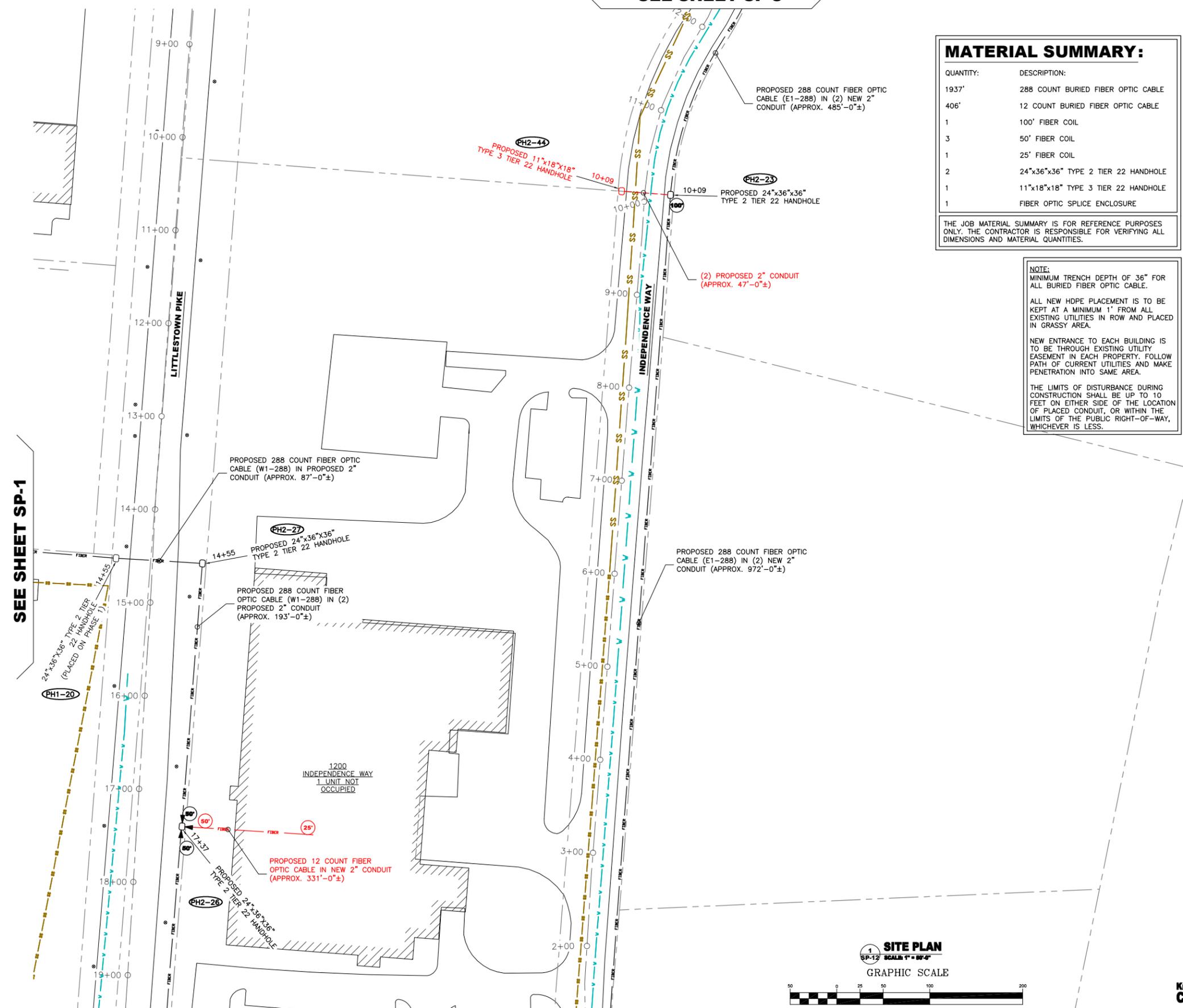
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1 SITE PLAN
SP-11 SCALE: 1" = 50'-0"
(IN FEET)
1 inch = 50ft.
(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



SEE SHEET SP-8



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1937'	288 COUNT BURIED FIBER OPTIC CABLE
406'	12 COUNT BURIED FIBER OPTIC CABLE
1	100' FIBER COIL
3	50' FIBER COIL
1	25' FIBER COIL
2	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
1	11"x18"x18" TYPE 3 TIER 22 HANDHOLE
1	FIBER OPTIC SPLICE ENCLOSURE

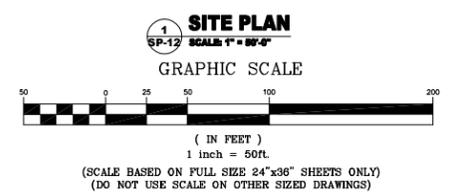
THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
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SEE SHEET SP-1

SEE SHEET SP-13

SEE SHEET SP-13



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-07-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
LITTLESTOWN PIKE & INDEPENDENCE WAY

DRAWING SHEET:
SP-12

JOB NO: CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME: AIR PARK FTTP - PHASE 2
JOB ROUTE: AIRPORT DRIVE TO LITTLESTOWN PIKE

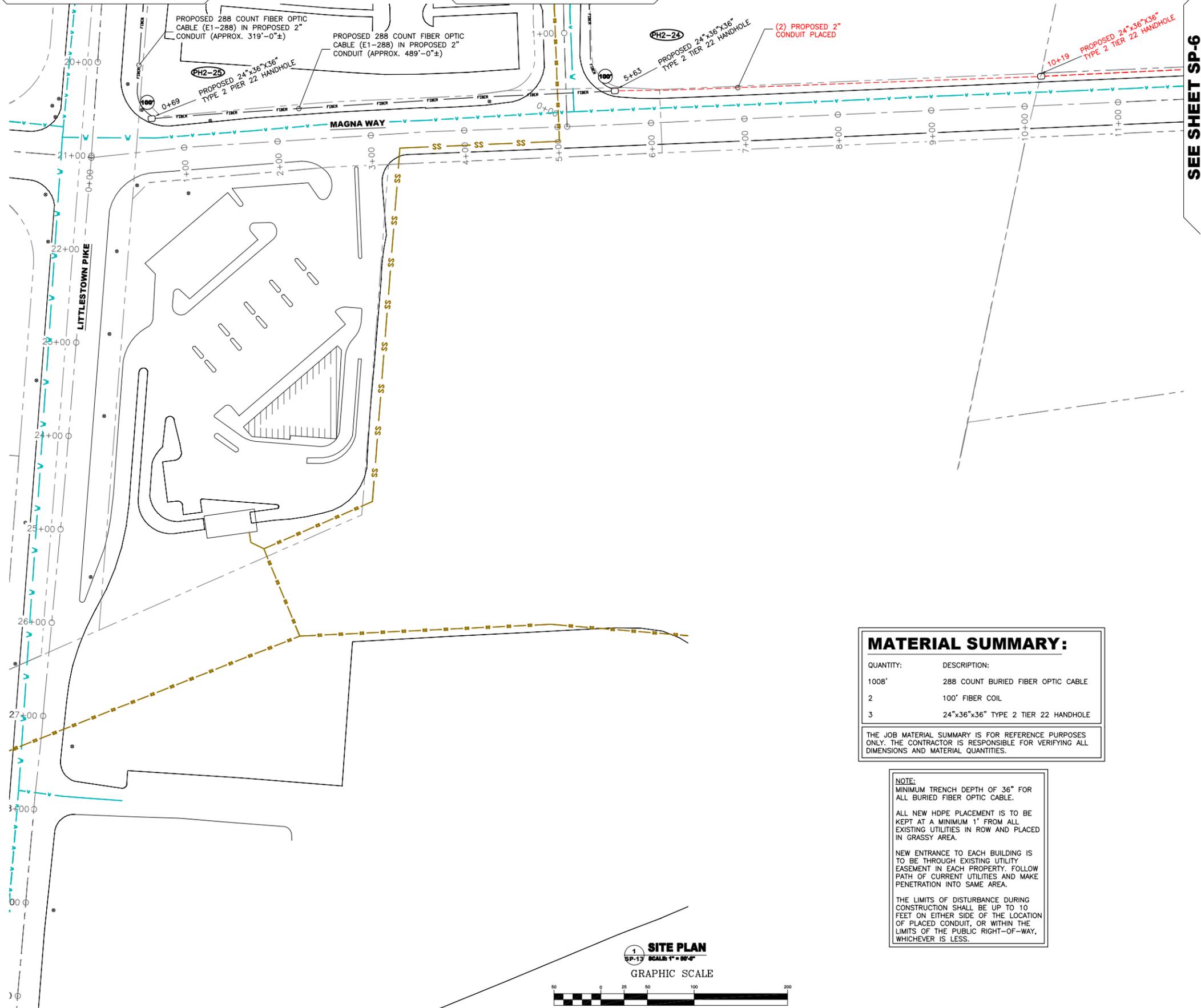
SHEET NO. 17 OF 18





SEE SHEET SP-12

SEE SHEET SP-12



SEE SHEET SP-6



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
9	06-03-14	TITLE PAGE UPDATED
8	05-16-14	EROSION CONTROL ADDED
7	05-07-14	CLIENTS COMMENTS REVISED
6	04-28-14	CLIENTS COMMENTS REVISED
5	04-18-14	HUB LOCATION ADDED
4	04-09-14	CLIENTS COMMENTS REVISED
3	03-27-14	CLIENTS COMMENTS REVISED
2	02-18-14	CLIENTS COMMENTS REVISED

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

LITTLESTOWN PIKE & MAGNA WAY

DRAWING SHEET:

SP-13

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP - PHASE 2
JOB ROUTE:
AIRPORT DRIVE
TO
LITTLESTOWN PIKE

SHEET NO. 18 OF 18

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1008'	288 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COIL
3	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

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SITE PLAN

SP-13 SCALE: 1" = 50'-0"

GRAPHIC SCALE



(IN FEET)
1 inch = 50ft.

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
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JOB NO:

CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C

JOB NAME:

AIR PARK FTTP BUILD - PHASE 3

JOB ROUTE:

LITTLESTOWN PIKE TO CORPORATE CENTER COURT

MAYOR
KEVIN R. UTZ

COUNCIL MEMBERS
DR. ROBERT WACK - PRESIDENT
DENNIS FRAZIER
PAUL WHITSON
SUZANNE P. ALBERT
TONY CHIAVACCI



JOB SUMMARY

THIS JOB CONSISTS OF RUNNING FIBER OPTIC CABLES ALONG THE EXISTING RIGHT OF WAY IN NEW & EXISTING UNDERGROUND FACILITIES STARTING AT 1200 INDEPENDENCE WAY.

THE PRIMARY ROUTE OF THIS JOB IS AS FOLLOWS:

1. SOUTH ALONG LITTLESTOWN PIKE
2. EAST ALONG CORPORATE CENTER COURT

THIS ROUTE CONTAINS 0.94 MILES OF FIBER OPTIC CABLE, COVERING A TOTAL LINEAR PATH OF 0.73 MILES.

JOB MATERIAL SUMMARY

QUANTITY:	DESCRIPTION:
5,078.6 FT.	144 COUNT BURIED FIBER OPTIC CABLE
10	100' FIBER COIL
1	50' FIBER COIL
10	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
2	24"x36"x36" TYPE 1 HS-20 HANDHOLE
1	FIBER OPTIC SPLICE ENCLOSURE

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SOIL CONSERVATION DISTRICT

THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.

APPROVED _____ CARROLL S.C.D./DATE

OWNER/DEVELOPER

I CERTIFY THAT THIS PLAN OF SOIL & SEDIMENT CONTROL WILL BE IMPLEMENTED TO THE FULLEST EXTENT, AND ALL STRUCTURES WILL BE INSTALLED TO THE DESIGN SPECIFICATION AS SPELLED OUT IN THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE EVALUATION BY THE CARROLL SOIL CONSERVATION DISTRICT PERSONNEL AND COOPERATING AGENCIES.

DEVELOPER _____ DATE _____

PRINTED NAME OF DEVELOPER _____

DEVELOPER COMPANY NAME _____

DEVELOPER PHONE NUMBER _____

ENGINEER

I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL IS DESIGNED WITH MY PERSONAL KNOWLEDGE OF THIS SITE CONDITION AND HAS BEEN DESIGNED TO THE STANDARDS AND SPECIFICATIONS ADOPTED BY CARROLL SOIL CONSERVATION DISTRICT.

ENGINEER/DATE

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
SH-1	SHEET INDEX
GN-1	GENERAL NOTES
GN-2	SYMBOLS, ABBREVIATIONS & DETAILS
GN-3	CONTACT SHEET
SP-1	LITTLESTOWN PIKE & OLD BACHMANS VALLEY ROAD
SP-2	LITTLESTOWN PIKE & MEADOW BRANCH ROAD
SP-3	LITTLESTOWN PIKE & CORPORATE CENTER COURT
SP-4	CORPORATE CENTER COURT



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5	06-03-14	TITLE PAGE UPDATED
4	05-16-14	EROSION CONTROL ADDED
3	05-7-14	CLIENT COMMENTS REVISED
2	03-27-14	CLIENT COMMENTS REVISED
1	02-13-14	CLIENT COMMENTS REVISED
0	01-23-14	ISSUED FOR 90% REVIEW (CDS)

DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

TITLE SHEET

DRAWING SHEET:

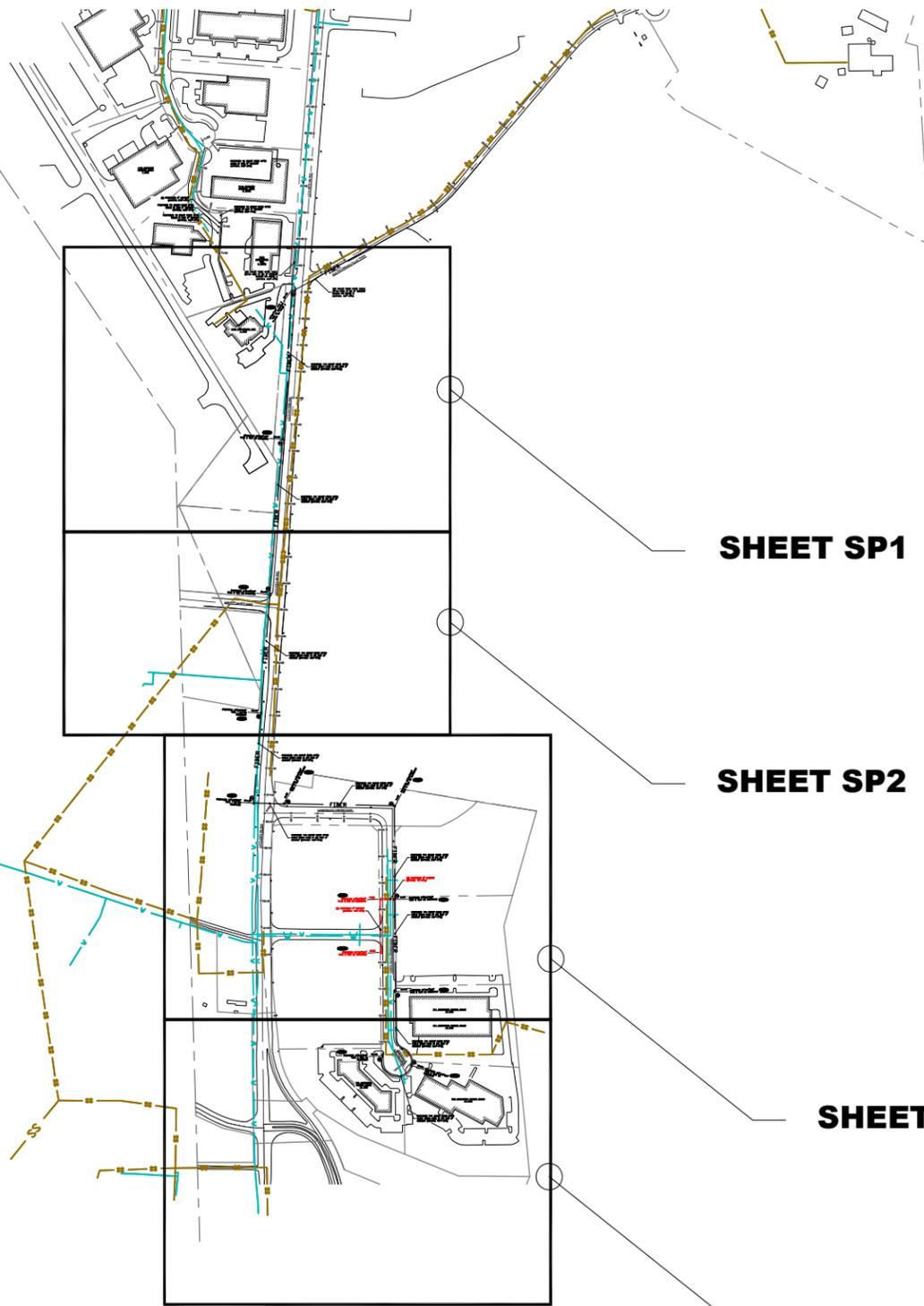
T-1

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE
TO
CORPORATE CENTER COURT

SHEET NO. 1 OF 9



LITTLESTOWN PIKE



SHEET SP1

SHEET SP2

SHEET SP3

SHEET SP4



ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5	06-03-14	TITLE PAGE UPDATED
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0	01-23-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
SHEET INDEX

DRAWING SHEET:
SH-1

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE
TO
CORPORATE CENTER COURT

SHEET NO. 2 OF 9



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5	06-03-14	TITLE PAGE UPDATED
4	05-16-14	EROSION CONTROL ADDED
3	05-7-14	CLIENT COMMENTS REVISED
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1	02-13-14	CLIENT COMMENTS REVISED
0	01-23-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY:	JWP
CHECKED BY:	
SCALE:	NOTED
JOB NO:	M214030.00

DRAWING TITLE:

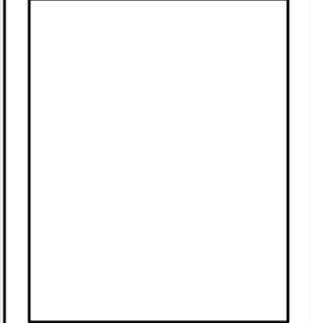
GENERAL NOTES

DRAWING SHEET:

GN-1

JOB NO:
CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE
TO
CORPORATE CENTER COURT

SHEET NO. 3 OF 9



MAINTENANCE PROGRAM:

1. ALL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGE STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY TO AVOID DAMAGE TO DOWNSTREAM PROPERTY.
2. AS AREAS ARE BROUGHT TO EITHER GRADE OR SUBGRADE THEY SHOULD BE STABILIZED BY EITHER PLACING GRAVEL SUBBBASE OR BY SEEDING AS EARLY AS POSSIBLE.
3. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF SLOPE AT THE END OF EACH DAY OF OPERATION.
4. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN FIVE (5) DAYS OF COMPLETION OF GRADING.

GENERAL LAND CONSERVATION NOTES:

1. FOLLOW 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, VOL. 4.
2. TRENCHES SHALL BE COMPACTED, SEEDED, AND MULCHED. AT THE END OF EACH WORK DAY.
3. ALL TEMPORARY EARTH BERMS, DIVERSION DIKES, SILT DAMS, AND SOIL STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY IS REQUIRED.
4. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SILT TRAPS MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
5. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO THE RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED UPON THE APPROVAL OF CARROLL COUNTY, AND ALL DENUDED AREAS SHALL BE STABILIZED WITH VEGETATION.
6. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPEN AT ONE TIME.
7. EXCAVATION MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
8. EFFLUENT FROM THE DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
9. WHERE CONSTRUCTION VEHICLES ACCESS ROUTES, INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH WORK DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

CONSTRUCTION NOTES:

1. VERIFICATION OF THE LOCATION OF EXISTING UTILITY CROSSINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
2. CALL THE LOCAL UTILITY ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY OF ANY CONSTRUCTION. 1-800-257-7777
3. MAINTAIN A 12" VERTICAL SEPARATION BETWEEN PROPOSED CONDUIT AND OTHER UTILITIES.
4. CONDUIT CAPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER INSTALLATION.
5. INSTALL ALL DUCTS WILL BE PROOFED USING A MANDRILL ¼" SMALLER THAN THE PIPE ID PVC AS SHOWN ON DRAWINGS.
6. THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 36".
7. MAXIMUM CABLE INSTALLATION TENSION WILL NOT EXCEED 600 POUNDS. A 600 POUND BREAKAWAY SWIVEL WILL BE USED DURING PULLING.
8. THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR WILL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO CITY OF WESTMINSTER GOVERNMENT WITHIN 14 DAYS OF COMPLETION OF THE WORK.
11. CONDUITS WILL BE TERMINATED ABOVE THE MIDPOINT OF MANHOLE.
12. PLACE 100 FEET OF SLACK TO BE LEFT ON ALL CABLE ENDS AT SPLICE/LATERAL POINTS. AT ALL OTHER HANDHOLES LEAVE 50 FEET OF SLACK.
13. BURIED POWER LINES: HAND DIG AS REQUIRED.
14. BURIED FIBER OPTIC TELEPHONE CABLES: HAND DIG AS REQUIRED.
15. BURIED CATV CABLES: HAND DIG AS REQUIRED.
16. BURIED GAS LINES: HAND DIG AS REQUIRED.
17. NEW ENTRANCE TO EACH BUILDING IS TO BE THROUGH EXISTING UTILITY EASEMENT ON EACH PROPERTY. FOLLOW PATH OF CURRENT UTILITIES AND MAKE PENETRATION INTO SAME AREA.

GENERAL NOTES:

1. ALL WORK WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, OSHA, NESC, DOT, RPA, ETC. GENERAL NOTES WILL APPLY TO ALL DRAWINGS.
2. THE CONTRACTOR WILL NOTIFY (IF APPLICABLE) THE ADJACENT PROPERTY OWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION.
3. FOLLOW MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES FOR TRAFFIC CONTROL.
4. PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED ON TO PRIVATE PROPERTY.
5. NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
6. NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORKING PERIODS.
7. NO EQUIPMENT OR MATERIALS MAY BE STORED ON SIDEWALKS.
8. EXCAVATED MATERIAL WILL BE TEMPORARILY PLACED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP IMMEDIATELY.
9. TEMPORARY ROADWAY RESTORATION WILL CONSIST OF NON-SHRINKABLE GROUT AND MATCH THE EXISTING ASPHALT CAP THICKNESS.
10. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
11. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE SPECIFICATIONS AND STANDARDS.

EROSION SEDIMENT CONTROL NOTES:

1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
3. FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE B-4-4 AND B-4-5.
4. MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A.1.B FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1
6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN B-4-2
7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
9. NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THEN 2:1 SHALL REQUIRE A ENGINEERED DESIGN FOR STABILIZATION
10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

SURFACE FEATURES / AERIAL UTILITIES - LINETYPES & SYMBOLS:

EXISTING:

- AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C.
- PLENUM INNERDUCT
- TS — TS — TS — TRAFFIC SIGNAL
- GAS — GAS — GAS — GAS
- W — W — W — WATER
- SS — SS — SS — SANITARY SEWER
- ST — ST — ST — STORM SEWER
- BGE — BGE — BGE — BGE POWER
- VER — VER — VER — VERIZON LINE
- AP — AP — AP — ALLEGANY POWER
- CENTERLINE
- CURB — CURB — CURB — EDGE OF CURB
- EOP — EOP — EOP — EDGE OF PAVEMENT
- ||||| RAIL ROAD TRACKS
- RIGHT OF WAY
- O — O — O — FENCE
- ===== SIDEWALK

- ⊗ JOINT-USE / POWER POLE
- ⊗ UTILITY POLE
- ⊗ CONCRETE POLE
- ⊗ STEEL POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT/BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ⊗ DOWN GUY
- ⊗ S/W ANCHOR & GUY
- ⊗ ANCHOR & GUY
- ⊗ ANCHOR
- ⊗ VGR GROUND
- ⊗ TP TEST PIT
- ⊗ FIBER OPTIC CABLE MARKER
- ⊗ TELCO PED
- ⊗ CATV VAULT
- ⊗ CATV PED
- PROPERTY CORNER
- ⊗ FOUND MONUMENT
- ⊗ DRAIN/INLET
- ⊗ WATER METER
- FH ⊕ FIRE HYDRANT
- ⊗ WATER VALVE
- ⊗ W WATER HANDHOLE / VAULT
- ⊗ CATCH BASIN
- ⊗ S SANITARY SEWER MANHOLE
- ⊗ SD STORM SEWER MANHOLE
- ⊗ GAS VALVE
- ⊗ GAS METER
- ⊗ G GAS HANDHOLE / VAULT

- TCC TRAFFIC SIGNAL CONTROL BOX
- E POWER JUNCTION BOX / PEDESTAL
- ⊗ POWER MANHOLE
- ⊗ TRAFFIC SIGNAL POLE
- R/R CROSSING SIGNAL
- ⊗ SIGN
- ⊗ SIGN (DOUBLE POST)
- ⊗ LUMINAIRE / STREET LIGHT
- ⊗ TREE
- ⊗ MAILBOX
- ⊗ CABINET
- ⊗ TELEPHONE MANHOLE
- ⊗ EXISTING HANDHOLE
- ⊗ RIPRAP

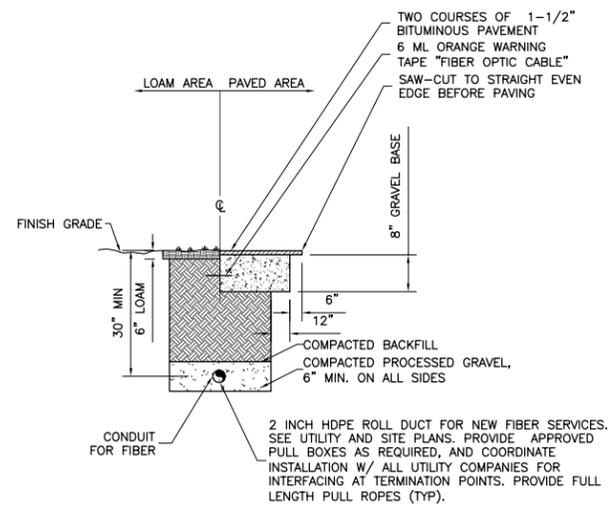
PROPOSED:

- FIBER — AERIAL F.O.C.
- AERIAL STRAND
- AERIAL OVERLASH
- UNDERGROUND F.O.C. IN CONDUIT
- PLENUM INNERDUCT
- FIBER — ADD/ALTERNATE F.O.C.

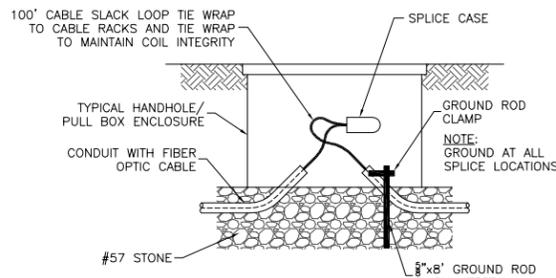
- ⊗ JOINT-USE / POWER POLE
- ⊗ F.O.C. SPLICE
- ⊗ VAULT / BUILDING STORAGE
- ⊗ AERIAL STORAGE
- FIBER FIBER OPTIC SYMBOL
- ⊗ DOWN GUY
- ⊗ S/W ANCHOR & GUY
- ⊗ ANCHOR & GUY
- ⊗ ANCHOR
- ⊗ VGR GROUND
- ⊗ V PROPOSED VAULT

ABBREVIATIONS:

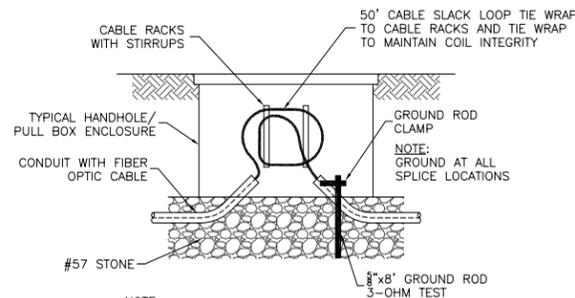
- E/W EQUIPPED WITH
- E/O EAST OF
- F.O.C. FIBER OPTIC CABLE
- N/O NORTH OF
- O/S OFFSET
- S/O SOUTH OF
- W/O WEST OF
- AB ABANDONED
- CA CABLE
- D/W DRIVEWAY
- DG DOWNGUY
- R/W RIGHT OF WAY
- S/W SIDEWALK
- C/L CENTERLINE
- E/P EDGE OF PAVEMENT
- B/C BACK OF CURB
- OD OUTSIDE DIAMETER
- PL PLACE
- SL STREET LIGHT
- VZ VERIZON
- WT WEIGHT
- FS FIELD SIDE
- BIP BLACK IRON PIPE
- BOW BACK OF SIDEWALK
- DOC DEPTH OF COVER
- FDC FIBER DUCT IN CONCRETE
- GIP GALVANIZED IRON PIPE
- GRC GALVANIZED RIGID CONDUIT
- HG HOT DIPPED GALVANIZED
- ID INNERDUCT
- PUE PUBLIC UTILITY EASEMENT
- RPL REPLACE
- SCA SIDE CABLE ARM
- SLP STREET LIGHT PROTECTED
- SLU STREET LIGHT UNPROTECTED



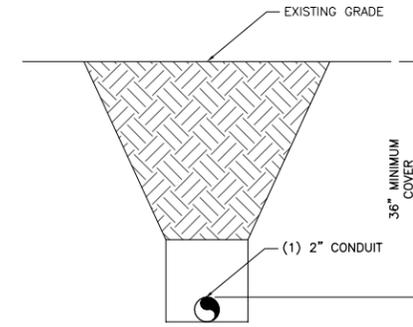
1 TRENCHING DETAIL
GN-2 N.T.S.



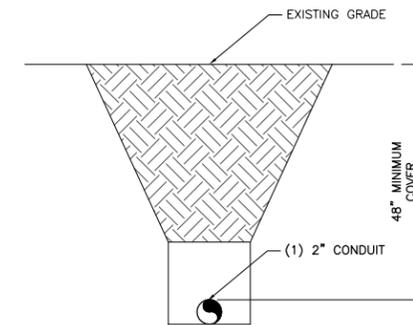
4 TYPICAL HANDHOLE WITH SPLICE BOX
GN-2 N.T.S.



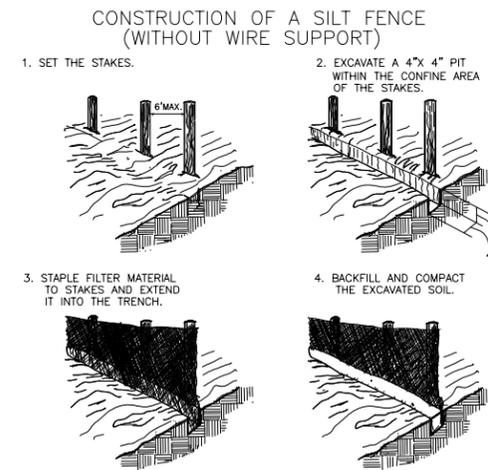
5 TYPICAL HANDHOLE WITH COIL
GN-2 N.T.S.



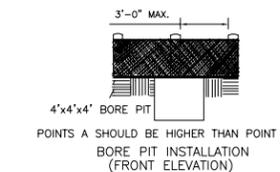
2 TYPICAL DRIVEWAY BORE DETAIL
GN-2 N.T.S.



3 TYPICAL ROAD BORE DETAIL
GN-2 N.T.S.



6 TYPICAL SILT FENCE DETAIL
GN-2 N.T.S.



6 TYPICAL SILT FENCE DETAIL
GN-2 N.T.S.

NOTE:

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100' IN ADVANCE OF TRENCHES, PLOWING OR BORING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.



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DRAWN BY: JWP

CHECKED BY:

SCALE: NOTED

JOB NO: M214030.00

DRAWING TITLE:

SYMBOLS, ABBREVIATIONS, & DETAILS

DRAWING SHEET:

GN-2

JOB NO: CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME: AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE: LITTLESTOWN PIKE TO CORPORATE CENTER COURT

SHEET NO. 4 OF 9

CONTACT SHEET

ENGINEERING CONTRACTOR:

CTC: (301) 933-1488
 PROJECT MANAGER: MITCH HERGETT (406) 579-1858
 SENIOR OSP ENGINEER: JIM JORDAN (410) 231-0703

CONSTRUCTION CONTRACTOR:

NAME OF FIRM: (###) ###-####
 PROJECT COORDINATOR: (###) ###-####
 PROJECT SUPERINTENDENT: (###) ###-####

UTILITIES:

MISS UTILITY MD:	24 HOUR NUMBER	(800) 257-7777
COLONIAL PIPELINE:	JOHN WINTERS	(703) 447-7331
EMERGENCY 24 HOUR NUMBER		(800) 926-2728
WASHINGTON GAS	CHUCK WHITLEY	(703) 750-4205
EMERGENCY 24 HOUR NUMBER		(703) 750-1000
COLONIAL PIPE LINE	BUZZ LEWANDOWSKI	(410) 549-4128
EMERGENCY 24 HOUR NUMBER (LOCAL)		(410) 549-4120
COLUMBIA GAS	KEITH GARRISON	(703) 759-2115
EMERGENCY 24 HOUR NUMBER		(800) 835-7191
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (WATER & SEWER)	XXXXX	(###) ##-####
	24 HOUR EMERGENCY	(###) ##-####
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS (ALL OTHER UTILITIES)	XXXXXX	(###) ##-####

STATE & LOCAL GOVERNMENT:

STATE HIGHWAY ADMINISTRATION - CARROLL COUNTY	DISTRICT 7
MIKE MOTOV - PROJECT MANAGER	(410) 848-2592
MIKE ZECHMAN - UTILITIES SUPT	(410) 848-9565
LARRY BLOOM - STREET DEPARTMENT SUPT	(410) 848-9000
WOODY BOWEN - CONSTRUCTION INSPECTOR	(410) 848-9473
RALPH McELHINNEY - AFTER HOURS EMERGENCIES	(410) 848-7631



SCHEDULE OF REVISIONS

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SCALE: NOTED
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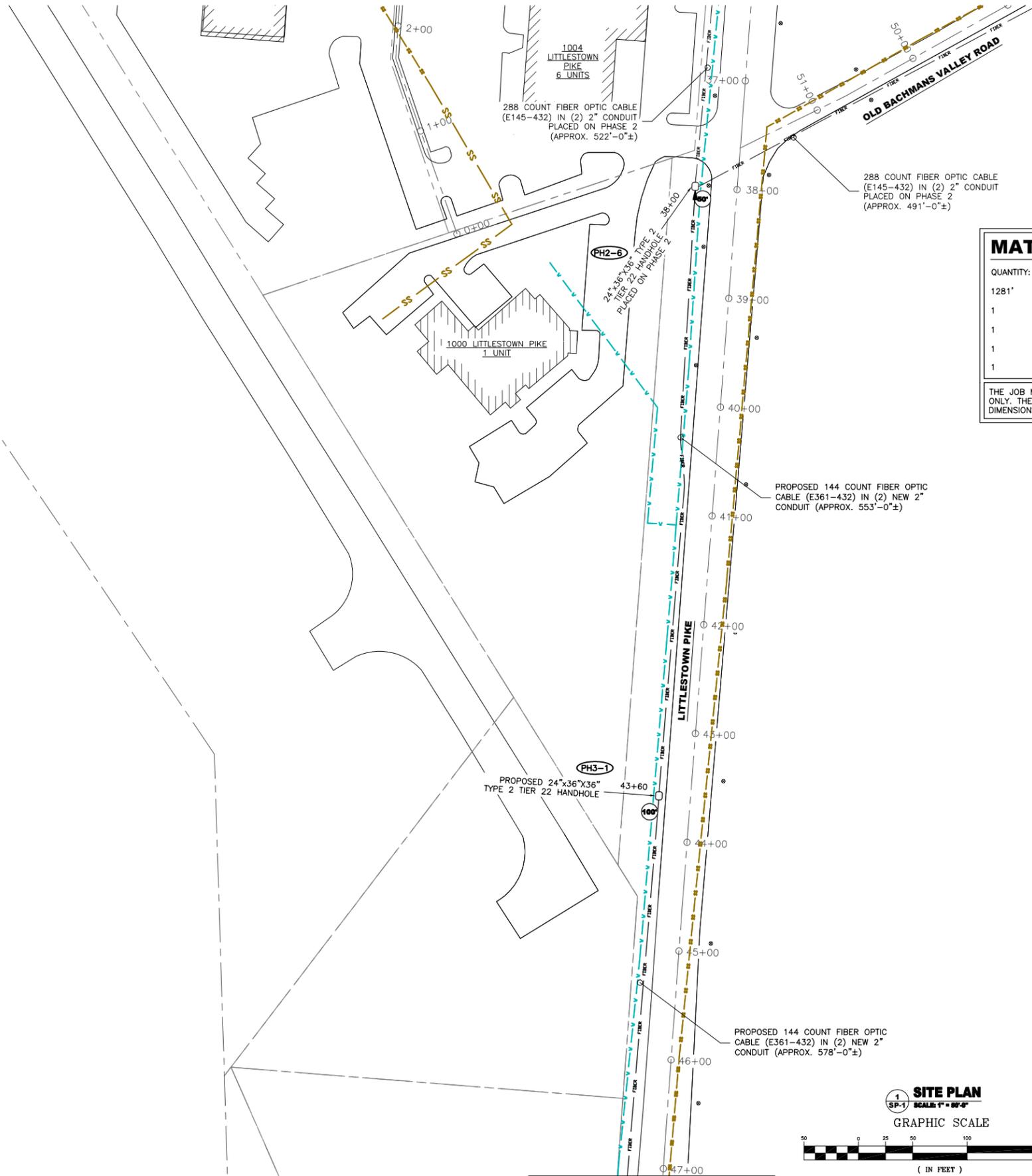
DRAWING TITLE:
CONTACT SHEET

DRAWING SHEET:
GN-3

JOB NO:
CITY OF WESTMINSTER FFTP
PILOT - PROJECT
NO. R-265-C
JOB NAME:
AIR PARK FFTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE
TO
CORPORATE CENTER COURT

SHEET NO. 5 OF 9



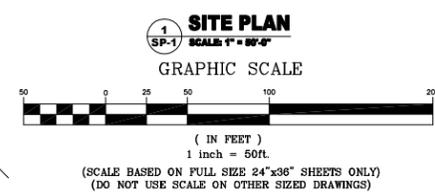


MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
1281'	144 COUNT BURIED FIBER OPTIC CABLE
1	100' FIBER COIL
1	50' FIBER COIL
1	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
1	FIBER OPTIC SPLICE ENCLOSURE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 ALL NEW HDPE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREAS.
 THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.



SEE SHEET SP-2



SCHEDULE OF REVISIONS

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DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
LITTLESTOWN PIKE & OLD BACHMANS VALLEY ROAD

DRAWING SHEET:
SP-1

JOB NO:
CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE TO CORPORATE CENTER COURT

SHEET NO. 6 OF 9



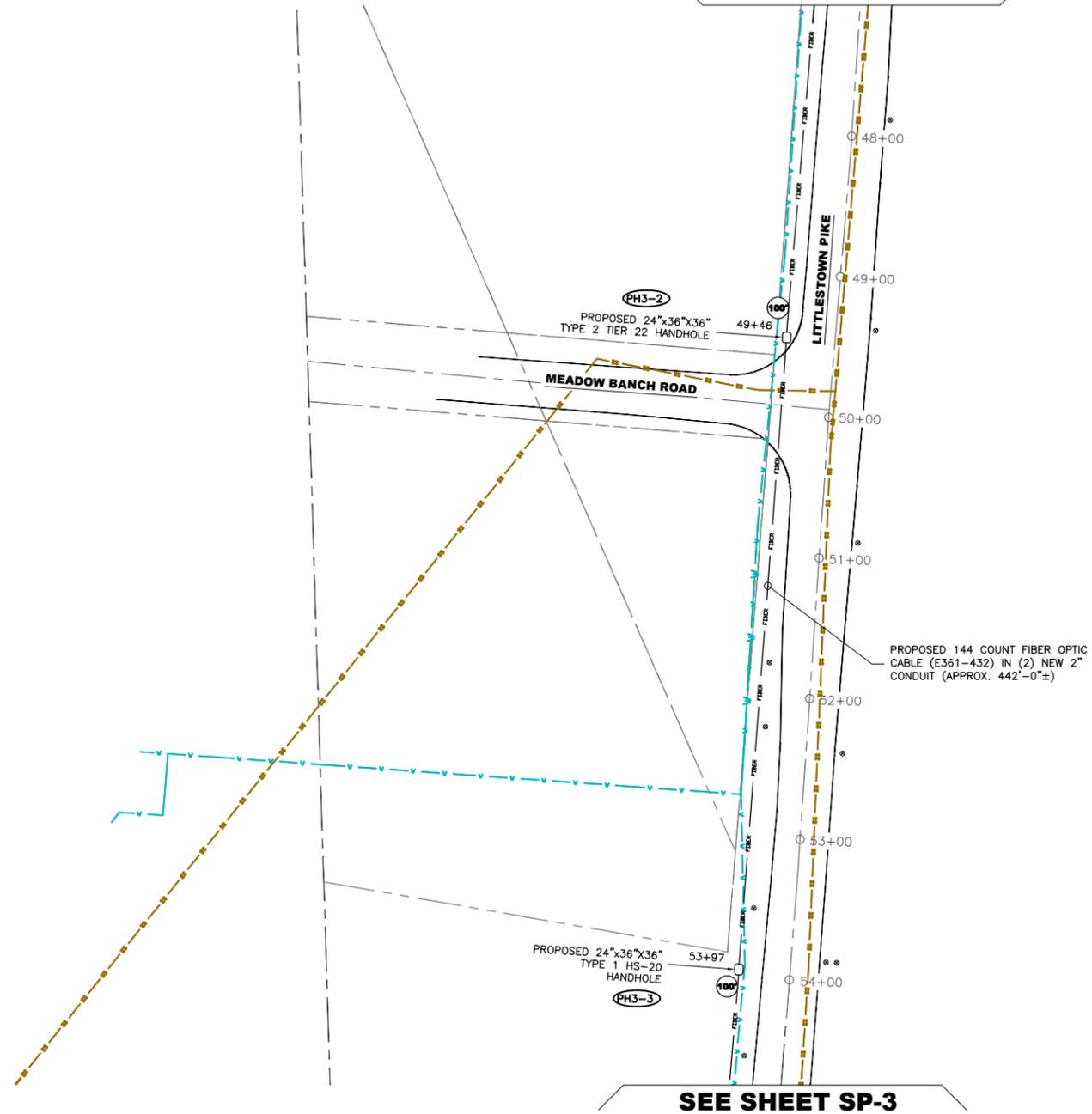
Know what's below. Call before you dig.

PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE. THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.



ctc

SEE SHEET SP-1



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
642'	144 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COIL
1	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
1	24"x36"x36" TYPE 1 HS-20 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 ALL NEW HPDE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREAS.
 THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5	06-03-14	TITLE PAGE UPDATED
4	05-16-14	EROSION CONTROL ADDED
3	05-7-14	CLIENT COMMENTS REVISED
2	03-27-14	CLIENT COMMENTS REVISED
1	02-13-14	CLIENT COMMENTS REVISED
0	01-23-14	ISSUED FOR 90% REVIEW (CD'S)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
LITTLESTOWN PIKE & MEADOW BRANCH ROAD

DRAWING SHEET:
SP-2

JOB NO:
CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE TO CORPORATE CENTER COURT

SHEET NO. 7 OF 9

SEE SHEET SP-3

1 SITE PLAN
SP-2 SCALE: 1" = 50'



(IN FEET)
 1 inch = 50ft.
 (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
 (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



Know what's below. Call before you dig.

PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
 THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.



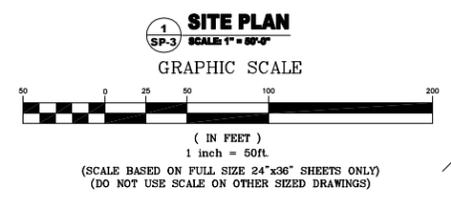
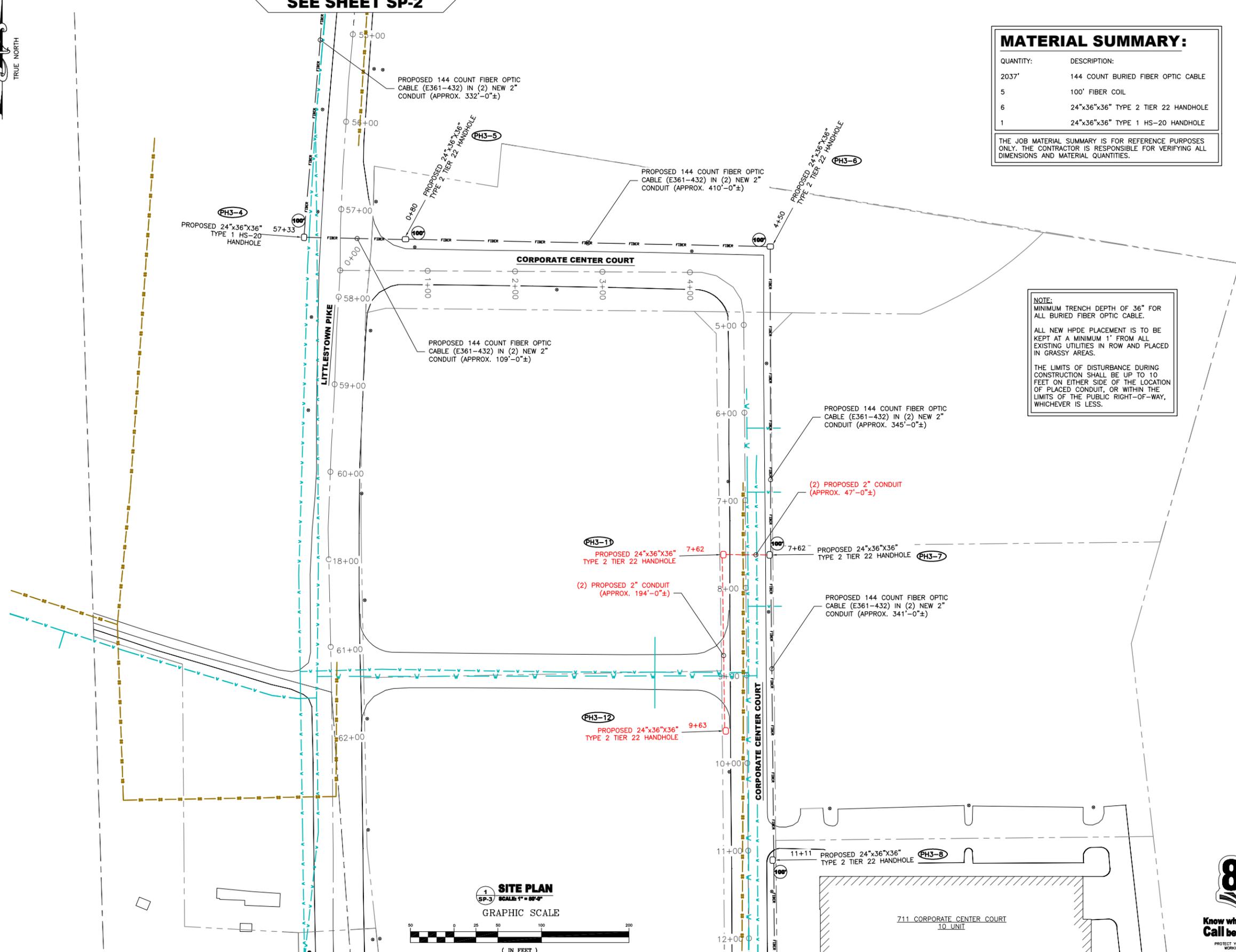
SEE SHEET SP-2

MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
2037'	144 COUNT BURIED FIBER OPTIC CABLE
5	100' FIBER COIL
6	24"x36"x36" TYPE 2 TIER 22 HANDHOLE
1	24"x36"x36" TYPE 1 HS-20 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
 MINIMUM TRENCH DEPTH OF 36" FOR ALL BURIED FIBER OPTIC CABLE.
 ALL NEW HPDE PLACEMENT IS TO BE KEPT AT A MINIMUM 1' FROM ALL EXISTING UTILITIES IN ROW AND PLACED IN GRASSY AREAS.
 THE LIMITS OF DISTURBANCE DURING CONSTRUCTION SHALL BE UP TO 10 FEET ON EITHER SIDE OF THE LOCATION OF PLACED CONDUIT, OR WITHIN THE LIMITS OF THE PUBLIC RIGHT-OF-WAY, WHICHEVER IS LESS.



SEE SHEET SP-4



SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5	06-03-14	TITLE PAGE UPDATED
4	05-16-14	EROSION CONTROL ADDED
3	05-7-14	CLIENT COMMENTS REVISED
2	03-27-14	CLIENT COMMENTS REVISED
1	02-13-14	CLIENT COMMENTS REVISED
0	01-23-14	ISSUED FOR 90% REVIEW (CDS)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

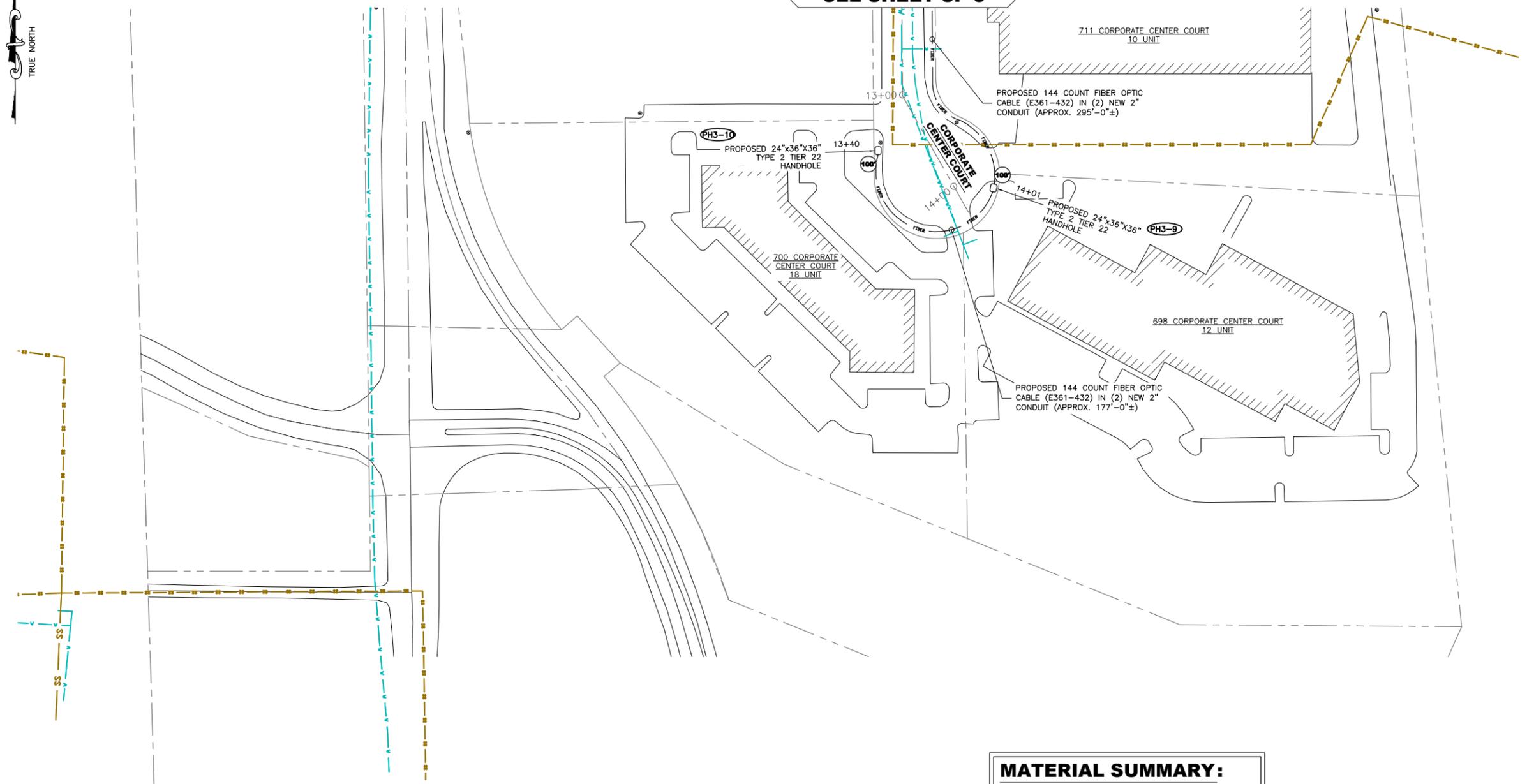
DRAWING TITLE:
LITTLESTOWN PIKE & CORPORATE CENTER COURT

DRAWING SHEET:
SP-3

JOB NO:
CITY OF WESTMINSTER FTTP PILOT - PROJECT NO. R-265-C
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
LITTLESTOWN PIKE TO CORPORATE CENTER COURT

SHEET NO. 8 OF 9





SEE SHEET SP-3

711 CORPORATE CENTER COURT
10 UNIT

PROPOSED 144 COUNT FIBER OPTIC
CABLE (E361-432) IN (2) NEW 2"
CONDUIT (APPROX. 295'-0"±)

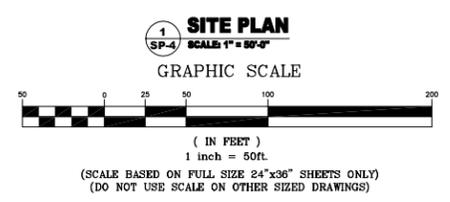
PH3-10
PROPOSED 24"x36"x36"
TYPE 2 TIER 22
HANDHOLE

700 CORPORATE
CENTER COURT
18 UNIT

PH3-9
PROPOSED 24"x36"x36"
TYPE 2 TIER 22
HANDHOLE

698 CORPORATE CENTER COURT
12 UNIT

PROPOSED 144 COUNT FIBER OPTIC
CABLE (E361-432) IN (2) NEW 2"
CONDUIT (APPROX. 177'-0"±)



MATERIAL SUMMARY:

QUANTITY:	DESCRIPTION:
672'	144 COUNT BURIED FIBER OPTIC CABLE
2	100' FIBER COIL
2	24"x36"x36" TYPE 2 TIER 22 HANDHOLE

THE JOB MATERIAL SUMMARY IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MATERIAL QUANTITIES.

NOTE:
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ctc

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
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0	01-23-14	ISSUED FOR 90% REVIEW (CDS)

DRAWN BY: JWP
CHECKED BY:
SCALE: NOTED
JOB NO: M214030.00

DRAWING TITLE:
CORPORATE CENTER COURT

DRAWING SHEET:
SP-4

JOB NO:
**CITY OF WESTMINSTER FTTP
PILOT - PROJECT
NO. R-265-C**
JOB NAME:
AIR PARK FTTP BUILD - PHASE 3
JOB ROUTE:
**LITTLESTOWN PIKE
TO
CORPORATE CENTER COURT**

SHEET NO. 9 OF 9