

LUMOS NETWORKS
 JOB NUMBER: R01963-074
 ROUTE NAME: RT_18_FDH_07 (D)

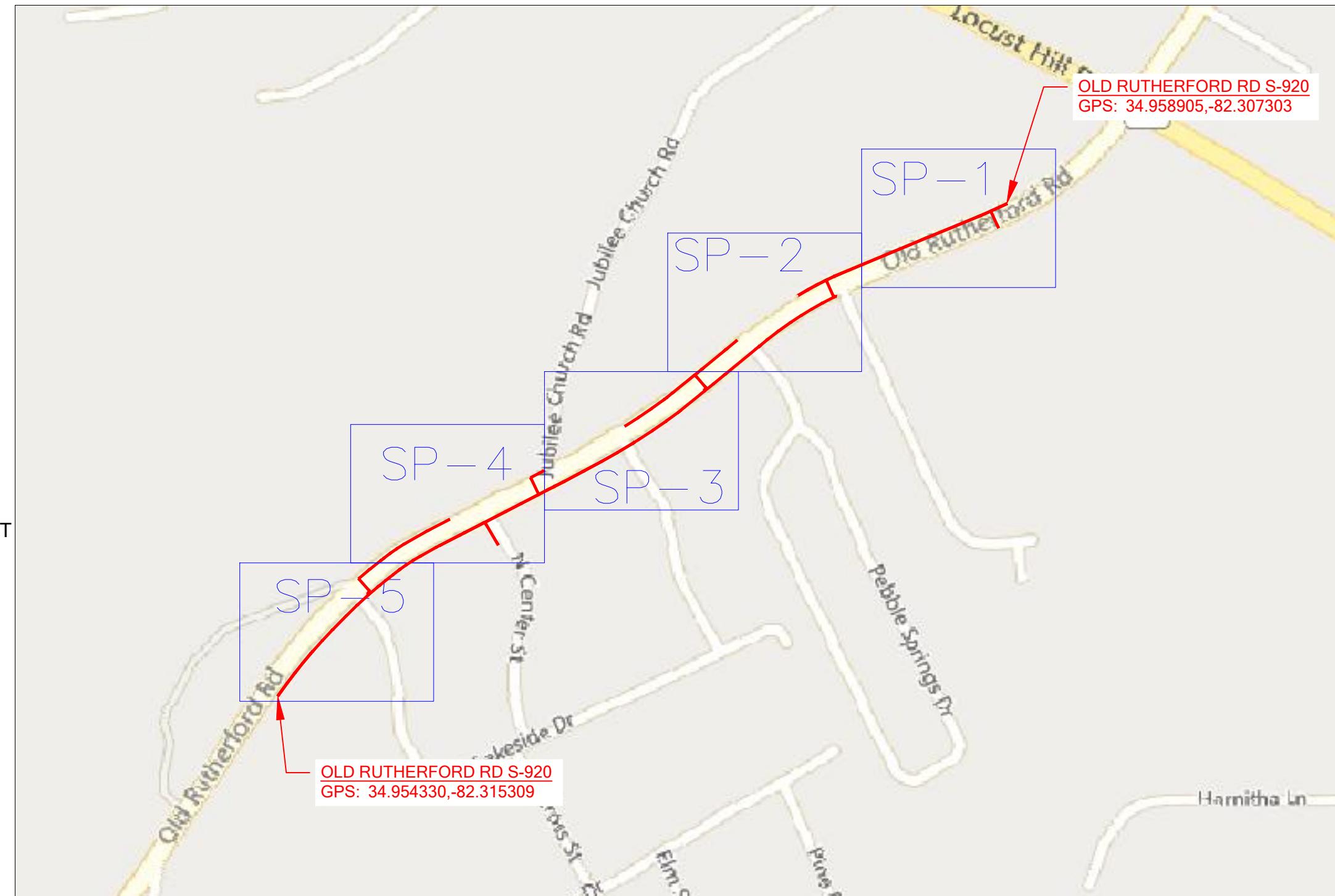
PERMIT DRAWING

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S-REF	SCDOT ROW PLANS

LUMOS PROPOSED FIBER OPTIC NETWORK PLACEMENT

CONSTRUCTION METHOD	FOOTAGE
UNDERGROUND	4251'
AERIAL	0'

TOTAL PROPOSED FOOTAGE = 4251'



PROJECT INFORMATION

SITE NAME:	RT_18_FDH_07
SITE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE
APPROVER:	

SUBMITTAL INFORMATION

REV	DATE	DESCRIPTION	INIT
0	06/19/2024	PERMIT DRAWING	CENT



SHEET TITLE

LOCATION MAP

SHEET NUMBER DRAWING SHEET
 T-1 1 OF 21

LUMOS:

NAME: RONNY POSTON
(CELL)903-948-3099
NAME: PAUL JERKINS
(CELL)803-413-8686

UTILITIES:

SC8II (I-888-72I-7877)

CENTILLION:

CRAIG BLACK - PROJECT MANAGER
(CELL)720-597-5320

PERMITS:

GREENVILLE COUNTY - PERMIT NUMBER / DATE: TBD
SCDOT - PERMIT NUMBER / DATE: TBD

LINETYPE LEGEND	
EOP	= EX. EDGE OF PAVEMENT
C/L	= EX. CENTER LINE
R/W	= EX. RIGHT OF WAY
ESMT	= EX. EASEMENT
	= EX. PROPERTY LINE
	= EX. BUILDING EDGE
OHF OHF	= EX. OVERHEAD FIBER
BFO BFO	= EX. BURIED FIBER
EX. STRAND	= EX. BURIED FIBER
-O-O-O-	= EX. FENCE
GR GR	= EX. GUARDRAIL
	= RAILROAD
	= PROPOSED OVERHEAD FIBER
144	= PROPOSED BURIED FIBER
	= PROPOSED CONDUIT
STRAND	= PROPOSED STRAND
	= PROPOSED MULTIPORT TAIL
SD	= STORM DRAINAGE
SS	= SEWER LINE
W	= WATER LINE
T	= TELCO LINE
TV	= CABLE TV LINE
E	= ELECTRIC LINE
TRAFF	= TRAFFIC LINE
G	= GAS LINE
	= ALL ROADS HATCHED ARE COUNTY ROADS AND NOT FOR SCDOT PERMIT

SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED ANCHOR & GUY		PROPOSED TERMINAL SPLICE
	FOREIGN/EXISTING ANCHOR & GUY		FIRE HYDRANT
	MGNV		WATER VALVE / METER
	JOINT USE POLE		WATER MANHOLE
	POWER POLE		SEWER MANHOLE
	COMMUNICATION POLE		STORM MANHOLE
	STEEL POLE		STORM INLET / CATCH BASIN
	CATV POLE		GAS VALVE / METER
	PROPOSED POLE		ELECTRIC MANHOLE
	RISER		ELECTRIC HANDHOLE
	PROPOSED STORAGE LOOP		STREET LIGHT
	PROPOSED AERIAL SPLICE		BURIED TRANSFORMER
	PROPOSED BURIED SPLICE		TRAFFIC HANDHOLE
	PROPOSED AERIAL FIBER DIRECTION		TRAFFIC POLE / SIGNAL
	PROPOSED BURIED FIBER DIRECTION		TELCO MANHOLE
	PROPOSED HANDHOLE		TELCO HANDHOLE
	EXISTING HANDHOLE		TELCO PEDESTAL
	PROPOSED PEDESTAL		CABLE TV PEDESTAL
	EXISTING PEDESTAL		CABLE TV HANDHOLE
	PROPOSED FLOWER POT		PROPOSED 1x8 SPLITTER
	PROPOSED LCP CABINET		PROPOSED 1x4 SPLITTER
	EXISTING LCP CABINET		SIGN
	CULVERT		FIBER MARKER



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. ALL TRAFFIC CONTROL DEVICES WILL BE IN PLACE PRIOR TO CONSTRUCTION. DEVICES NO LONGER NEEDED WILL BE REMOVED AS QUICKLY AS POSSIBLE.
3. PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED ON TO PRIVATE PROPERTY.
4. NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
5. NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORK PERIODS.
6. NO EQUIPMENT OR MATERIALS MAY BE STORED ON THE SIDEWALK.
7. EXCAVATION MATERIAL WILL BE STORED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP IMMEDIATELY.
8. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
9. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY, TOWNSHIP AND STATE SPECIFICATIONS AND STANDARDS.
10. GROUND RESTORATION/RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
11. ANY CONDUIT/INNERDUCT RUNNING LINES SHOWN ON PRINT ARE ESTIMATES ONLY. ACTUAL RUNNING LINES TO BE DETERMINED VIA TEST HOLES BY CONTRACTOR PRIOR TO TRENCHING OPERATION. MOST UNDERGROUND UTILITIES ARE NOT SHOWN ON PRINTS. CONTACT UTILITY COMPANIES FOR EXACT LOCATION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO STREETS, CURBS, ROADS, HIGHWAYS, SHOULDERS, DITCHES, EMBANKMENTS, CULVERTS, STORM DRAINS, BRIDGES OR OTHER PUBLIC OR PRIVATE PROPERTY, REGARDLESS OF LOCATION OR CHARACTER, WHICH MAY BE CAUSED BY MOVING, HAULING OR OTHERWISE TRANSPORTING EQUIPMENT MATERIALS OR MEN TO OR FROM WORK OR ANY SITE THERE-OF, WHETHER BY HIM OR HIS CONTRACTOR OR SUBCONTRACTOR.
13. EXTREME CARE SHALL BE EXERCISED TO AVOID HITTING OR CAUSING DAMAGE TO AERIAL AND SUBSURFACE OBSTRUCTIONS, OWNERS OF STRUCTURES WILL BE NOTIFIED IN ADVANCE OF EXCAVATION WORK BY THE CONTRACTOR AND A REQUEST WILL BE MADE TO LOCATE THE AFFECTED PLANT.
14. ALL MATERIAL PLACED SHALL BE APPROVED BY A PROJECT MANAGER.
15. DEVIATIONS FROM THE ENGINEERED ROUTE REQUIRES A PROJECT MANAGER AND RIGHT-OF-WAY OWNER OR CARETAKER APPROVAL PRIOR TO CONSTRUCTION.
16. CABLE SHALL BE UNREELED AND REREELED IN FIGURE 8 FASHION AT BRIDGES, RAILROAD TRACKS, ROADS, STREETS, UTILITY CROSSINGS AND OTHER LOCATIONS TO PREVENT CUTTING OF THE CABLE UNLESS NOTED IN THE DESIGN.
17. WHERE PERMITS FROM STATE, COUNTY, TOWNSHIP, CITY, RAILROAD OR GOVERNMENTAL AGENCIES ARE REQUIRED, ALL WORK PERFORMED WILL COMPLY WITH THESE AGENCIES STANDARD SPECIFICATION.
18. THE CONTRACTOR SHALL NOTIFY BUILDING MANAGEMENT WHEN WORK WILL BEGIN ON BUILDING. CONTRACTOR TO COORDINATE ROOM ACCESS AND WORK START AND STOP TIMES WITH BUILDING MANAGEMENT.

19. CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE DONE TO EXISTING STRUCTURE DURING THE COURSE OF PERFORMING THE JOB INDICATED ON THE PRINTS, REPAIR AND/OR REPLACEMENT OF DAMAGE TO BUILDING SHALL BE DONE SOLELY AT THE CONTRACTORS EXPENSE.
20. THE PROJECT MANAGER WILL RESERVE THE RIGHT TO INSPECT AT ANY TIME THE WORK BEING PERFORMED BY THE CONTRACTOR. IF STC/SNC DETERMINES THAT THE WORK IS NOT BEING PERFORMED TO MINIMUM QUALITY STANDARDS, THEN THE CONTRACTOR SHALL PROVIDE REWORK AT HIS OWN COST.
21. ANY CHANGE IN PROJECT SCOPE, INCLUDING BUT NOT LIMITED TO, CONDUIT LENGTH, CONDUIT PATH, AERIAL PATH ETC., MUST BE APPROVED BY THE PROJECT MANAGER.
22. ALL CORING/CONSTRUCTION THAT WILL CAUSE NOISE AND/OR VIBRATION SHALL BE DONE OUTSIDE NORMAL BUSINESS HOURS OR TO THE DISCRETION OF THE BUILDING MANAGEMENT.
23. THE CONTRACTOR SHALL PROTECT, SHORE, BRACE AND MAINTAIN ALL UNDERGROUND PIPES, CONDUITS, DRAINS AND OTHER UNDERGROUND CONSTRUCTION UNCOVERED OR OTHERWISE AFFECTED BY THE CONSTRUCTION WORK.
24. CERTAIN PIPE LINES, SEWERS, CULVERTS, DRAINS, CABLES AND OTHER EXISTING SUBSURFACE STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE ARE INDICATED ON THE PLANS ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE SURVEY CREW. DAMAGE TO SUBSURFACE STRUCTURES, OR DELAY TO THE CONTRACTOR DUE TO ENCOUNTERING STRUCTURES, CABLES OR PIPELINE NOT SHOWN OR IN LOCATIONS DIFFERENT FROM THOSE INDICATED ON THE PLANS SHALL NOT CONSTITUTE A CLAIM FOR EXTENSION OF WORK DELAYS.
25. THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL LAND CONSERVATION NOTES:

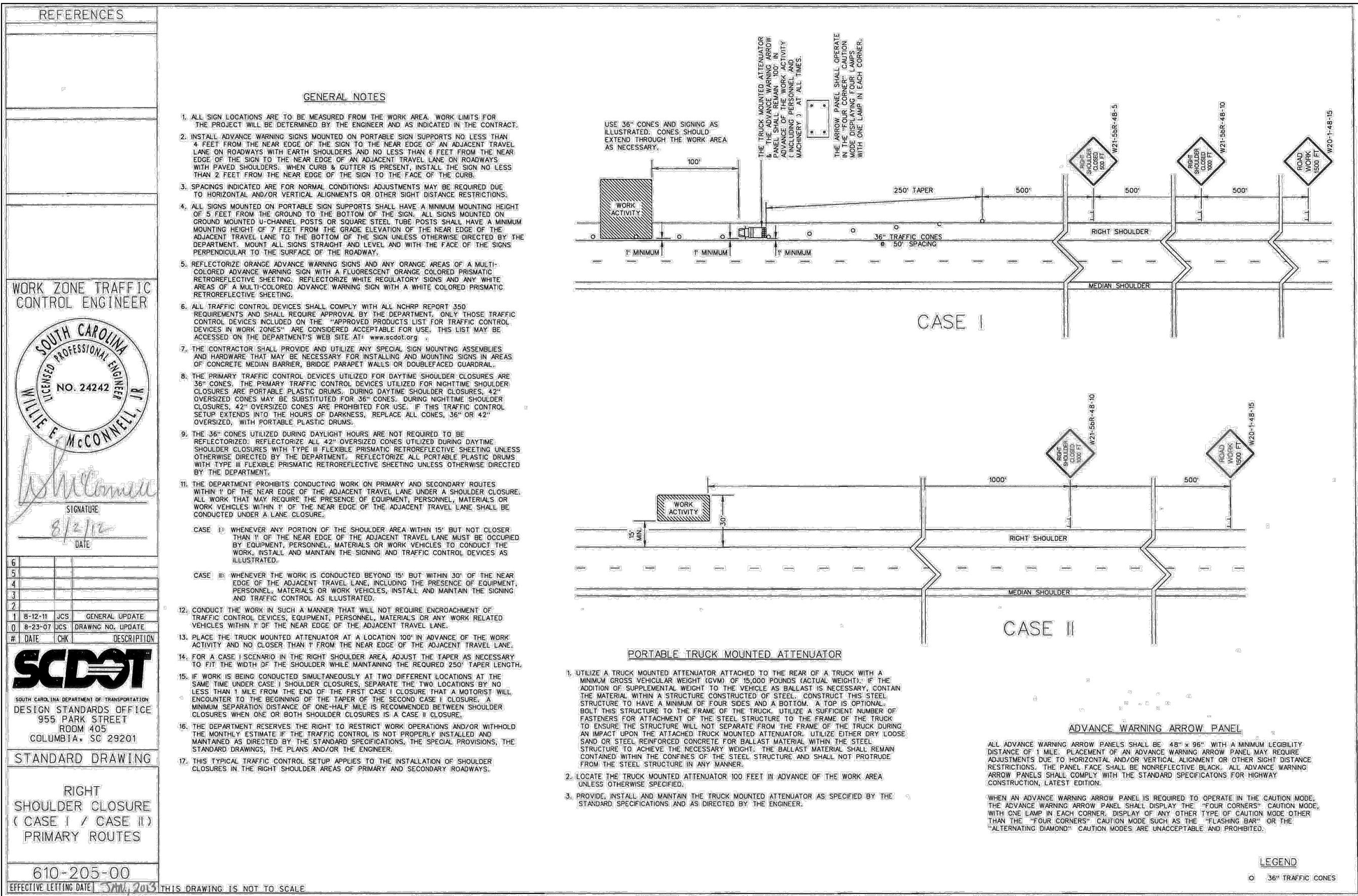
1. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SILT TRAPS MAINTAINED AND MODIFIED AS REQUIRED DURING CONSTRUCTION PROGRESS.
2. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED UPON THE APPROVAL OF PROJECT MANAGER AND ALL DENUDED AREAS SHALL BE STABILIZED WITH VEGETATION.
3. EXCAVATION MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

CONSTRUCTION NOTES:

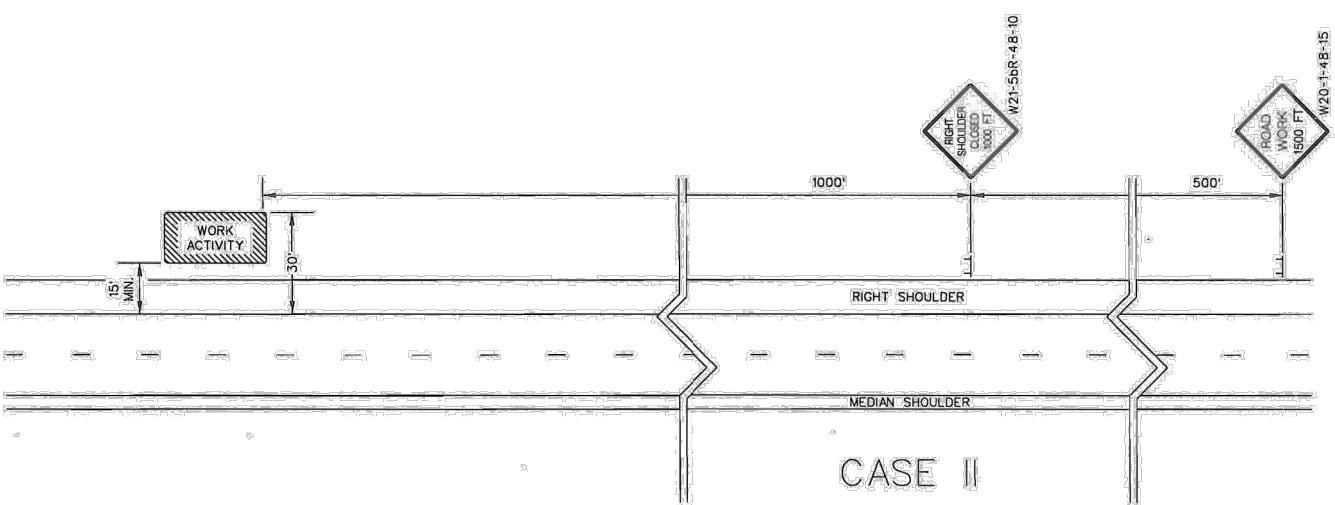
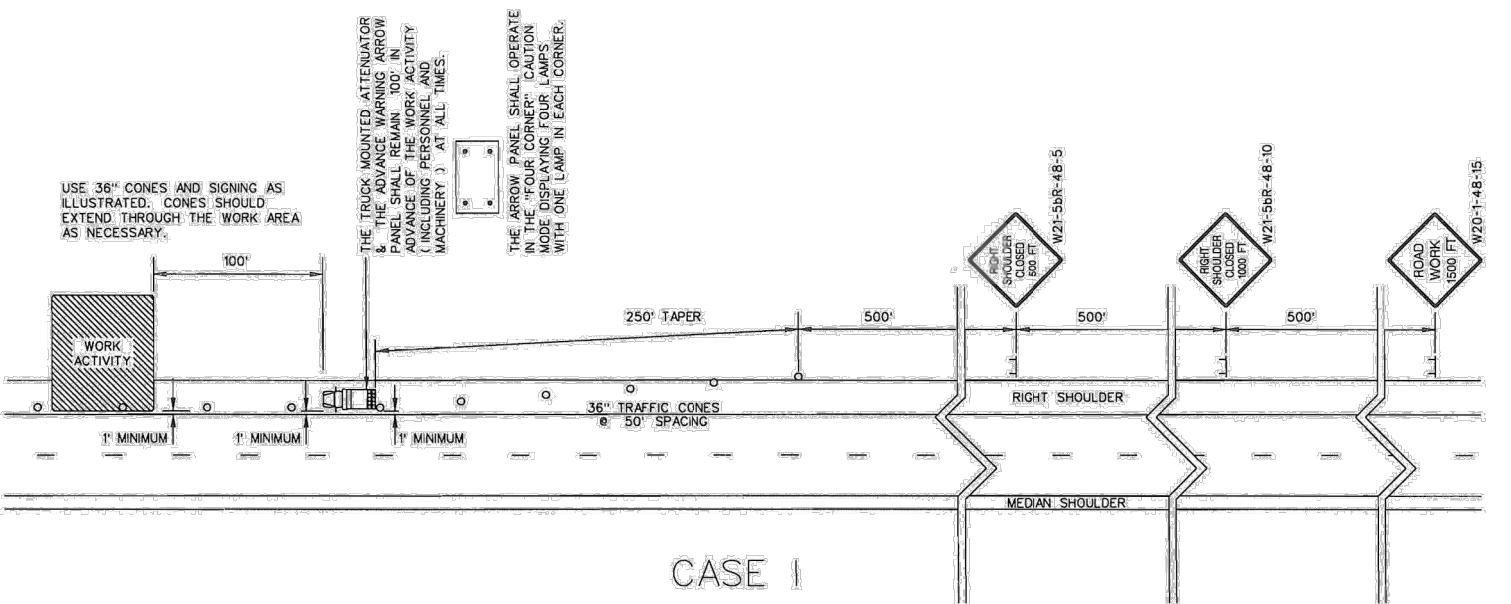
1. VERIFICATION OF THE LOCATION OF EXISTING UTILITY CROSSINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
2. PA-1 CALL 811 ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY CONSTRUCTION.
3. CONDUIT CAPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER INSTALLATION.
4. ALL INSTALLED DUCTS WILL BE PROOFED USING A MANDRILL 1/4" SMALLER THAN THE PIPE ID PVC AS SHOWN ON DRAWING.
5. THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 20 TIMES THE OUTER DIAMETER OF THE CABLE.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO SHENTEL WITHIN 7 DAYS OF COMPLETION OF THE WORK.
7. CONDUITS WILL BE TERMINATED ABOVE THE MIDPOINT OF MANHOLE. CONTRACTOR WILL PROVIDE ASBUILDS.
8. SOFT DIG (PREFERRED) OR HAND DIG TO LOCATE ALL BURIED UTILITY CABLES AS REQUIRED.
9. ALL BURIED CABLE MUST BE PLACED AT A MINIMUM OF 24" UNLESS IN VDOT RIGHT-OF-WAY, WHERE THE MINIMUM DEPTH WILL BE 36".
10. ALL CONDUIT/INNERDUCT BENDS TO HAVE SWEEP (24") BENDING RADIUS.
11. ALL INNERDUCTS SHALL HAVE A DRAG LINE IN EACH.
12. PLACE CABLE LOCATE MARKERS AT EACH MANHOLE AND AT MINIMUM SPACING OF 1200' OR 4 PER MILE, UNLESS IN A RESIDENTIAL DEVELOPMENT, IN WHICH CASE FIBER MARKERS WILL BE ELIMINATED.
13. INNERDUCTS/CONDUIT SLEEVE TO BE SEALED IN BUILDING CORE BORE WITH THUNDERLINE LINKSEAL, JACK MOON PLUGS OR APPROVED EQUAL.
14. CONTRACTOR SHALL RECORD SEQUENCE # OF FIBER CABLE AT EVERY POLE, MANHOLE, SLACK COIL AND TAIL LOCATION. CONTRACTOR TO PROVIDE PROJECT MANAGER WITH SEQUENCE NUMBERS AT PROJECT COMPLETION AND OR REDLINE COPY.
15. SLACK COIL AND SLACK LOOP LOCATIONS SHALL BE DETERMINED ON CONSTRUCTION DRAWINGS.
16. FIBER CABLE SHALL NOT BE PULLED WITH MORE THAN 600 LBS. DYNAMIC TENSION. SAFEGUARDS SUCH AS 600 LB. BREAK AWAY SWIVEL AND A 600 LB. CLUTCH CAPSTAN MUST BE USED.
17. FIBER OPTIC WARNING TAPE WILL BE PLACED 12" ABOVE CABLE/CONDUIT.
18. CABLE LUBRICATION SHALL BE USED TO REDUCE PULLING TENSION. LUBRICANTS MUST NOT CONTAIN ANY PETROLEUM PRODUCTS.
19. IRON RACKING SHALL BE PLACED IN MANHOLES TO SECURE SLACK COILS AND SPLICE CASES.
20. GROUND RODS TO BE INSTALLED AT ALL SPLICE LOCATIONS.
21. 48, 72 AND 96 LCP CABINETS WILL HAVE (1) ONE EACH 1x32 SPLITTER, AND A 144 LCP CABINET WILL HAVE (2) TWO EACH 1x32 SPLITTERS.
22. 288 LCP CABINET WILL HAVE (3) THREE EACH 1x32 SPLITTERS, AND A 432 LCP CABINET WILL HAVE (4) FOUR EACH 1x32 SPLITTERS.
23. ALL DUCT DEEMED FOR FUTURE DROPS SHALL BE BROKEN AT EACH FLOWER POT MANHOLE AS DESIGNATED ON THE WORKPRINTS

AERIAL CABLE PLACEMENT:

1. CONVENTIONAL AERIAL CONSTRUCTION TECHNIQUES WILL BE USED IN THE PLACEMENT OF FIBER OPTIC CABLE.
2. CABLE TENSION WILL BE MONITORED AND RECORDED AS THE CABLE IS PULLED THROUGH CABLE ROLLERS.
3. CABLE ROLLERS WILL BE SPACED AT A MAXIMUM INTERVAL OF THIRTY-FIVE FEET (35'). TYPE "B" ROLLERS WILL BE USED. CONTRACTORS ARE REQUIRED TO PROVIDE SUFFICIENT ROLLERS AND PULL-LINE TO PLACE AT LEAST FIVE KILOMETERS (5 KM) OF CABLE IN A SINGLE PULL.
4. AERIAL CABLE GUIDES WILL BE USED.
5. AERIAL STRAND WILL BE USED AND TENSIONED WITH A STRAND DYNAMOMETER.
6. STRAND WILL BE PLACED AS SPECIFIED ON ENGINEERING PLANS.
7. PRELASHING OF CABLE TO STRAND WILL NOT BE ALLOWED. CABLE WILL BE DOUBLE LASHED WITH 45 MIL STAINLESS LASHING WIRE.
8. ONLY NEW HARDWARE, i.e. LASHING WIRE, LASHING WIRE CLAMPS, ETC., WILL BE ACCEPTED.
9. LASHING WIRE CLAMPS SHALL BE PLACED 12" EACH FROM CENTER THROUGH BOLT, AND METAL STRAP WITH 1/4" SPACER SHALL BE PLACED 10" FROM CENTER THROUGH BOLT.
10. OVERLASHING OPERATIONS REQUIRE THE LOWERING OF EXISTING FIBER OPTIC CABLE SLACK COILS AND SPLICE CASES PRIOR TO OVERLASHING THE PROPOSED FIBER OPTIC CABLE (UNLESS OTHERWISE NOTED).
11. ALL UTILITY POLE HARDWARE MUST BE TIGHTENED BEFORE LASHING OPERATIONS.
12. LASHING WIRES SHALL BE TERMINATED IN A MANNER SO AS NOT TO CROSS ONE ANOTHER OR ANY OTHER SHARP OBJECTS, WHICH MIGHT CREATE FUTURE BREAKS IN THE WIRE. ENDS OF LASHING WIRE AND METAL STRAPS SHALL BE TRIMMED, TUCKED, AND KEPT NEAT.
13. FIBER OPTIC WARNING TAGS SHALL BE PLACED AT EVERY WORK POLE, MANHOLE, SLACK COIL, SPLICE CASE AND WHERE SO INDICATED BY PROJECT MANAGER.
14. COMPLY WITH NESC REGULATION PART 92 AND RUS BULLETIN 1751F-815 REQUIRING EIGHT OR MORE BONDS PER MILE.
15. ALL ANCHORS WILL BE IN PLACE PRIOR TO PLACING AND TENSIONING OF STRAND. TEMPORARY GUYING CAN BE USED IF AVAILABLE IF APPROVED BY SHENTEL PROJECT MANAGER, AND MUST BE MADE PERMANENT WITH APPROVED ANCHORS ASAP.



REFERENCES		
WORK ZONE TRAFFIC CONTROL ENGINEER		
SIGNATURE		
8/2/12		
DATE		
6		
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1	8-12-11	JCS GENERAL UPDATE
0	8-23-07	JCS DRAWING NO. UPDATE
#	DATE	CHK DESCRIPTION
 SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201		
STANDARD DRAWING		
RIGHT SHOULDER CLOSURE (CASE I / CASE II) PRIMARY ROUTES		
610-205-00		
EFFECTIVE LETTING DATE 08/01/2012		



POR T A B L E TRU C K MOUN TED ATTENUATOR

1. UTILIZE A TRUCK MOUNTED ATTENUATOR ATTACHED TO THE REAR OF A TRUCK WITH A MINIMUM GROSS VEHICULAR WEIGHT (GVW) OF 15,000 POUNDS (ACTUAL WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL. CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINIMUM OF FOUR SIDES AND A BOTTOM. A TOP IS OPTIONAL. BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUMBER OF FASTENERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE ATTACHED TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL REINFORCED CONCRETE FOR BALLAST MATERIAL WITHIN THE STEEL STRUCTURE TO ACHIEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL REMAIN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE AND SHALL NOT PROTRUDE FROM THE STEEL STRUCTURE IN ANY MANNER.
 2. LOCATE THE TRUCK MOUNTED ATTENUATOR 100 FEET IN ADVANCE OF THE WORK AREA UNLESS OTHERWISE SPECIFIED.
 3. PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DISCUSSED BY THE ENGINEER.

ADVANCE WARNING ARROW PANEL

ALL ADVANCE WARNING ARROW PANELS SHALL BE 48" X 96", WITH A MINIMUM LEGIBILITY DISTANCE OF 1 MILE. PLACEMENT OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. LATEST EDITION.

WHEN AN ADVANCE WARNING ARROW PANEL IS REQUIRED TO OPERATE IN THE CAUTION MODE, THE ADVANCE WARNING ARROW PANEL SHALL DISPLAY THE "FOUR CORNERS" CAUTION MODE, WITH ONE LAMP IN EACH CORNER, DISPLAY OF ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE SUCH AS THE "FLASHING BELL" OR THE "ALTERNATING DIAMOND" CAUTION MODES ARE UNACCEPTABLE AND PROHIBITED.

LEGEND



SHEET TITLE

TRAFFIC CONTROL PLAN

THE CONVENTION

5 OF 21

SITE NAME:	RT_18_FDH_07
SITE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE
APPROVER:	

SUBMITTAL INFORMATION		
REV	DATE	DESCRIPTION
0	06/19/2024	PERMIT DRAWING

HOURS OF OPERATION:

TRAFFIC CONTROL PLAN

THE CONVENTION

SHEET NUMBER

DRAWING SHEET
5 OF 21

REFERENCES

DRAWING 610-005-20 NOTES

- SEE STANDARD DRAWING NO. 610-005-00 FOR ALL GENERAL NOTES AND REQUIREMENTS. THE FOLLOWING NOTES ARE SPECIFIC REQUIREMENTS FOR THIS STANDARD DRAWING.
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCROACH UPON THE "LIMITS OF THE INTERSECTION" DO NOT ALLOW THE "APPROACH TAPER" OR THE "DOWNSTREAM TAPER" OF THE LANE CLOSURE TO ENCROACH UPON THE "LIMITS OF THE INTERSECTION". ONLY THE "BUFFER SPACE" OR THE "WORK ACTIVITY AREA" OF THE LANE CLOSURE MAY ENCROACH UPON THE "LIMITS OF THE INTERSECTION".
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCROACH UPON THE "LIMITS OF THE INTERSECTION" WITH "STOP SIGN CONTROLLED" "SIDE ROADS", UTILIZE FLAGGERS TO CONTROL THE TRAFFIC FROM THE INTERSECTING "SIDE ROADS" UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAINTAIN THESE FLAGGERS IN PLACE FOR THE DURATION THAT ANY PORTION OF THE "BUFFER SPACE" OR THE "WORK ACTIVITY AREA" MAY ENCROACH UPON THE "LIMITS OF THE INTERSECTION".
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCROACH UPON THE "LIMITS OF THE INTERSECTION" WITH "STOP SIGN CONTROLLED" "SIDE ROADS", THE CONTRACTOR SHOULD CONTINUE THE WORK OPERATIONS THROUGH THE INTERSECTION TO A LOCATION POINT BEYOND THE "LIMITS OF THE INTERSECTION" THAT WILL PERMIT THE WORK TRAIN TO CLEAR THE INTERSECTION AND THE LOCATION OF THE SUBSEQUENT "FLAGGER STATION" BE NO LESS THAN 200' PAST THE "LIMITS OF THE INTERSECTION" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN THE WORK ZONE PROCEEDS THROUGH A "STOP SIGN CONTROLLED" "SIDE ROAD" INTERSECTION, CONTINUE THE WORK OPERATIONS THROUGH THE INTERSECTION TO A SPECIFIC LOCATION POINT WITHIN THE "DEPARTURE LANE" NO LESS THAN 300' FT TO 500' FT BEYOND THE LIMITS OF THE INTERSECTION TO ALLOW THE WORK TRAIN AND ALL PORTIONS OF THE LANE CLOSURE TO CLEAR THE INTERSECTION.
- MANTAIN THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC ON THE ROADWAY WHERE THE WORK ACTIVITY IS LOCATED AND BEING CONDUCTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHEN ANY PORTION OF THE "WORK ACTIVITY AREA" ENCROACHES UPON THE "LIMITS OF THE INTERSECTION", VARIOUS TYPES OF WORK MAY REQUIRE TRAFFIC TO AND FROM THE "SIDE ROADS" BE STOPPED FOR TIME DURATIONS GREATER THAN THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES. ONLY WHEN APPROVED BY THE ENGINEER MAY THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC FOR THE SIDE ROAD TRAFFIC BE EXCEEDED. IN THE EVENT THE TYPE OF WORK REQUIRES THE SIDE ROAD TRAFFIC BE STOPPED FOR TIME DURATIONS GREATER THAN 5 TO 7½ MINUTES, THE SIDE ROAD TRAFFIC MAY BE STOPPED FOR TIME PERIODS UP TO 20 MINUTES IF APPROVED BY THE ENGINEER. IF THE SIDE ROAD TRAFFIC MUST BE STOPPED FOR TIME PERIODS GREATER THAN 20 MINUTES, CLOSURE OF THE "SIDE ROADS" MAY BE CONSIDERED IF APPROVED BY THE ENGINEER. IN THE EVENT CLOSURE OF THE "SIDE ROADS" IS APPROVED, CLOSE THE "SIDE ROADS" TO TRAFFIC IN ACCORDANCE WITH THE REQUIREMENTS OF STANDARD DRAWING NO. 610-510-00. INSTALL AND MAINTAIN APPROPRIATE DETOURS WHEN NECESSARY, AND AS DIRECTED BY THE ENGINEER.

WORK ZONE TRAFFIC CONTROL ENGINEER

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
NO. 24242
WILLIE E. McCONNELL, Jr.

W. McConnell
SIGNATURE
6/1/2018
DATE

5	
4	
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1	4-27-18 WEM REVISED WORK ACTIVITY DIMENSION AND NOTE 5
0	1-15-15 JCS NEW DRAWING
#	DATE CHK
DESCRIPTION	

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
FLAGGING OPERATIONS WORK ZONES CONTINUING THROUGH STOP SIGN CONTROLLED SIDE ROADS

EFFECTIVE DRAFTING DATE JAN 2019
THIS DRAWING IS NOT TO SCALE

TABLE A
SIGN PLACEMENT INTERVALS

SPEED LIMIT	*
* < 35 MPH LOW SPEED	200
* 40 - 50 MPH INTERMEDIATE SPEED	350
* 55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B
TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS

SPEED LIMIT	SPACING INTERVALS
< 35 MPH	25 FEET
40 - 55 MPH	50 FEET

SEE STANDARD DRAWING NO. 610-005-00
SEE STANDARD DRAWING NO. 610-510-00
UTILIZE A CHANGEABLE MESSAGE SIGN AS ILLUSTRATED DURING NIGHTTIME FLAGGING OPERATIONS



PREPARED BY: 110 SAMARITAN DR, SUITE 21
CUMMING, GA 30041. USA



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PROJECT INFORMATION

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
* 35 MPH LOW SPEED	200
* 40 - 50 MPH INTERMEDIATE SPEED	350
* 55 MPH HIGH SPEED	500

- 1 -

TRAFFIC CONTROL DEVICE WORK ACTIVITY	SPACING INTERVAL / BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
35 MPH	25 FEET
40 - 55 MPH	50 FEET

100

REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK	
PROJECT INFORMATION	
SITE NAME:	RT_18_FDH_07
SITE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE
APPROVER:	

* REGULATORY POSTED SPEED LIMIT PRIOR

PROJECT INFORMATION	
SITE NAME:	RT_18_FDH_07
SITE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE
APPROVER:	

Page 1 of 1

SUBMITTAL INFORMATION

SUBMITTING INFORMATION		
REV	DATE	DESCRIPTION
0	06/19/2024	PERMIT DRAWING

HOURS OF OPERATION

WORKING HOURS
MON-FRI: 9AM-4PM



SHEET TITL

TRAFFIC CONTROL PLAN

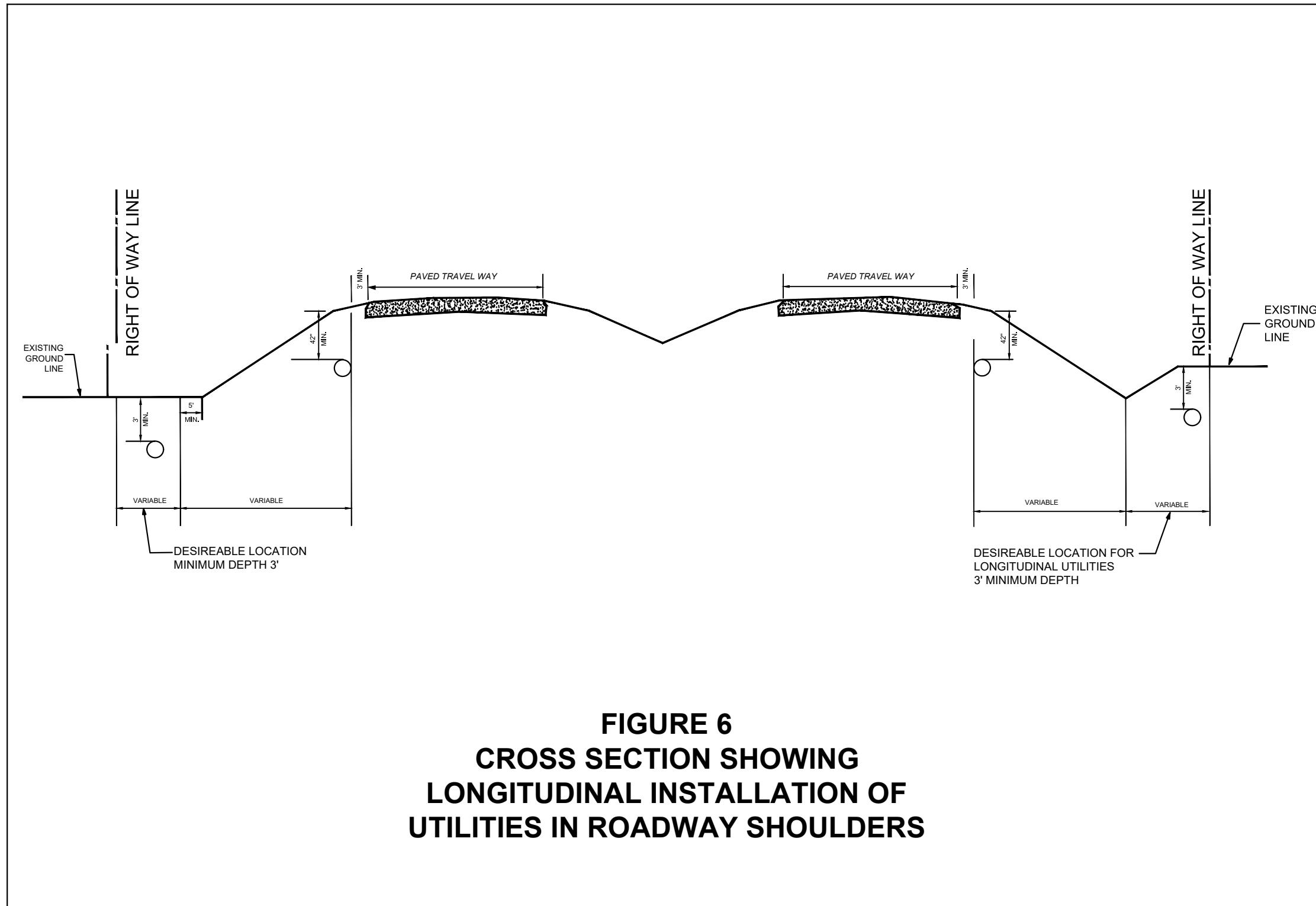
DRAWING SHEET

TC-3

6 OF 21

AppendixB: Pipelines

Figure6-Longitudinal Installation of UtilitiesinRoadway Shoulders



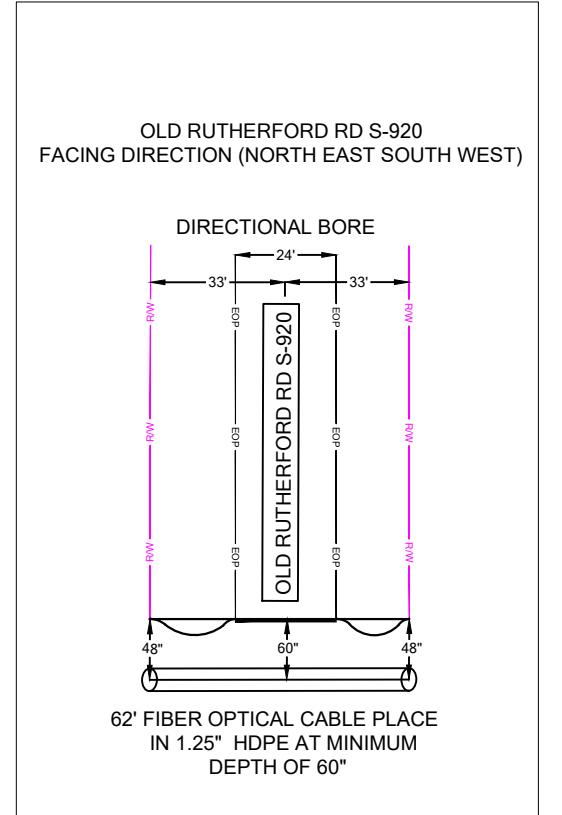
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RT_18_FDH_07	0	06/19/2024	PERMIT DRAWING
SITE ADDRESS:			CENT
2309 LOCUST HILL RD			
COUNTY:			
GREENVILLE			
APPROVER:			



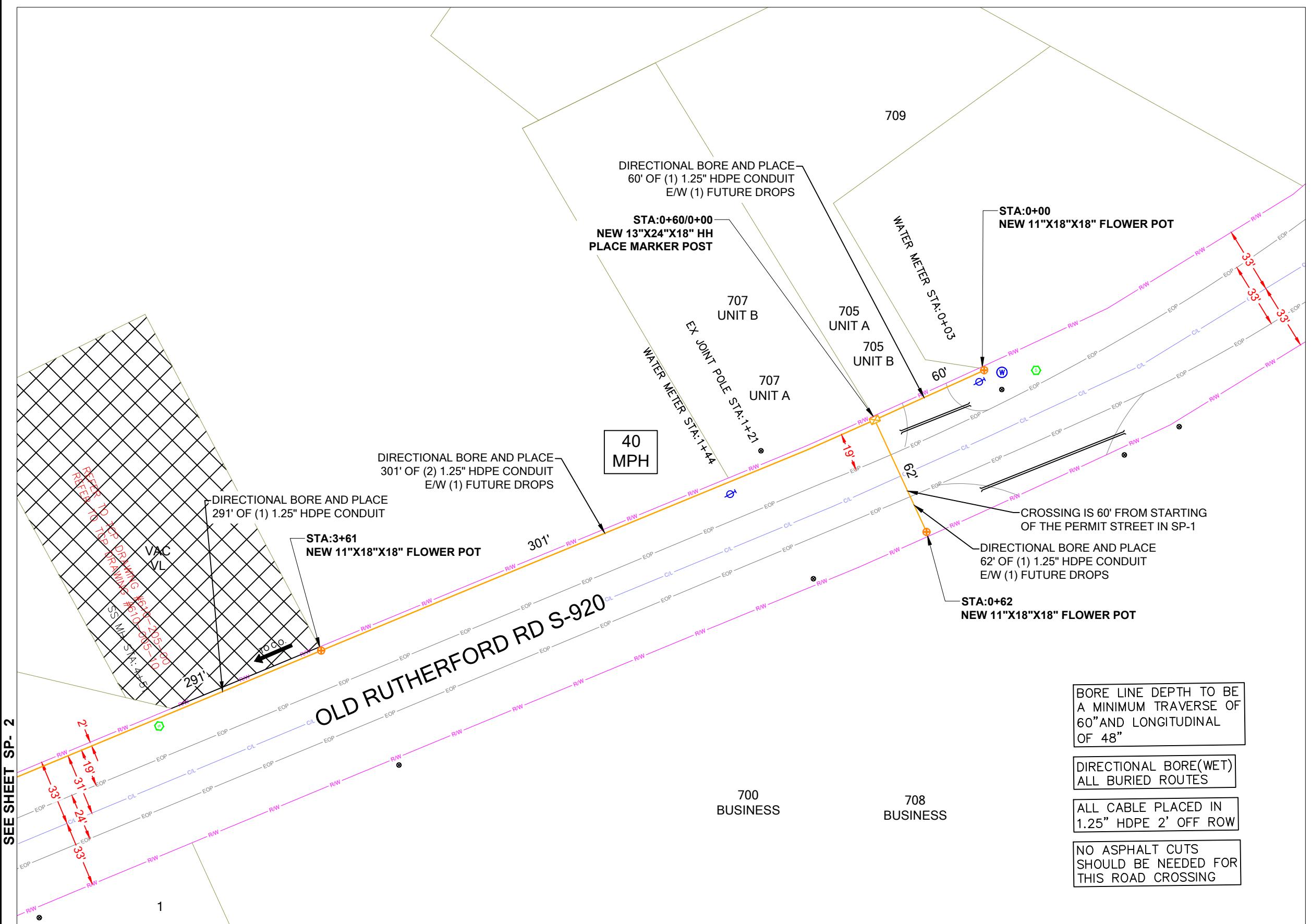
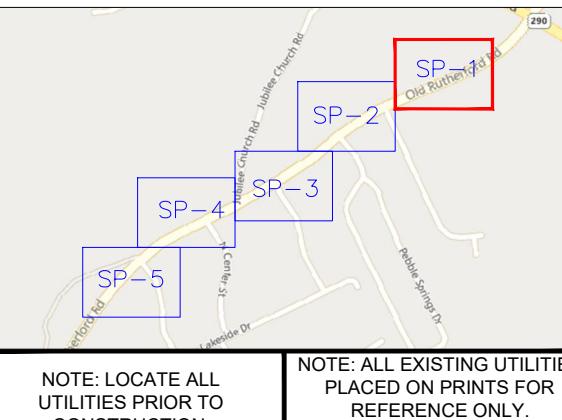


PERMIT NOTES

SCDOT ROW FILE: 23.634
SHEET # 9



SHEET LAYOUT



PROJECT INFORMATION

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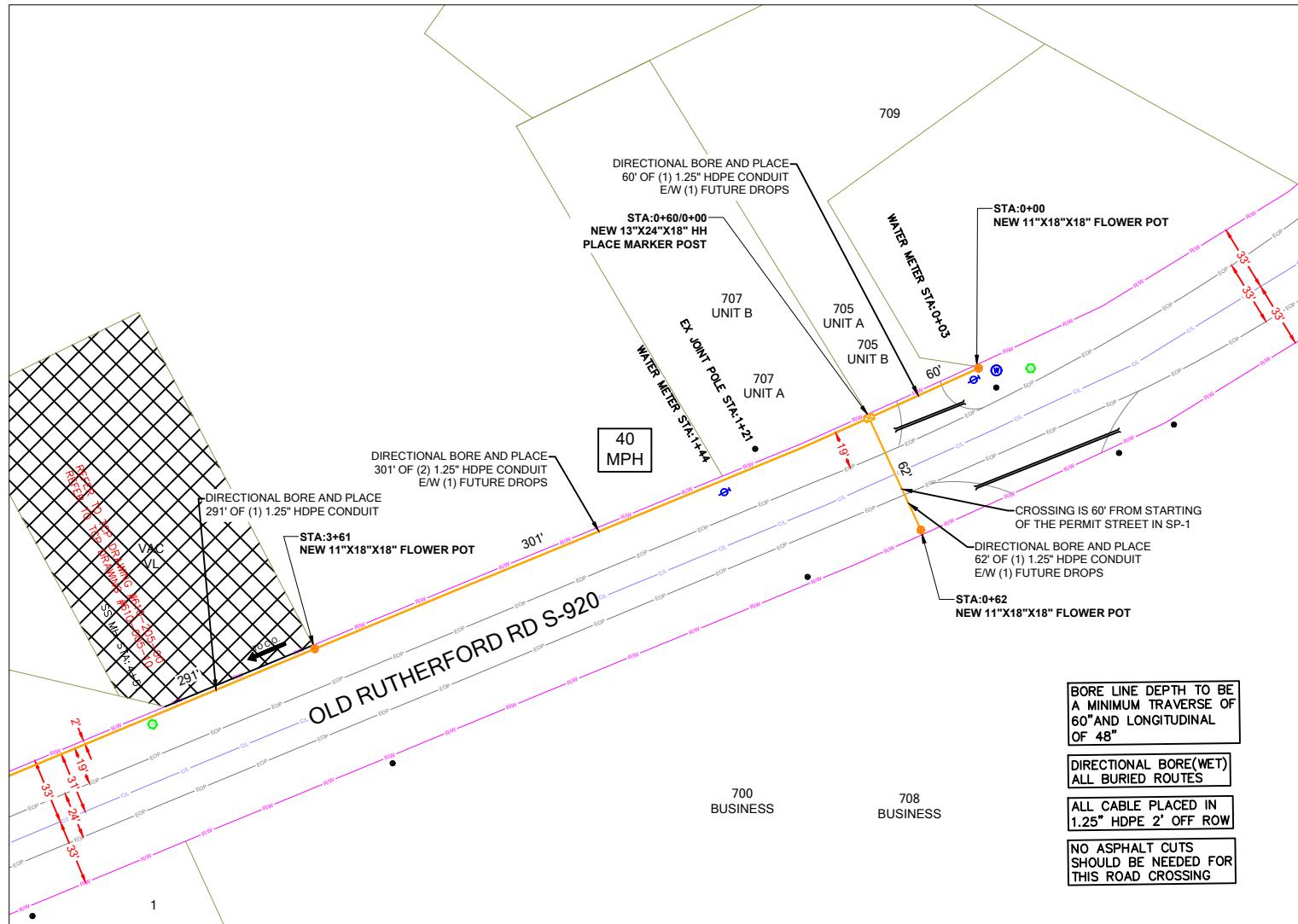
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COUNTY: GREENVILLE

APPROVER:

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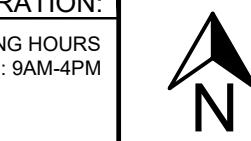


PROJECT INFORMATION

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SITE ADDRESS:	2309 LOCUST HILL RD	0	06/19/2024	PERMIT DRAWING	CENT
COUNTY:	GREENVILLE				
APPROVER:					

SUBMITTAL INFORMATION

HOURS OF OPERATION:			
WORKING HOURS MON-FRI: 9AM-4PM			

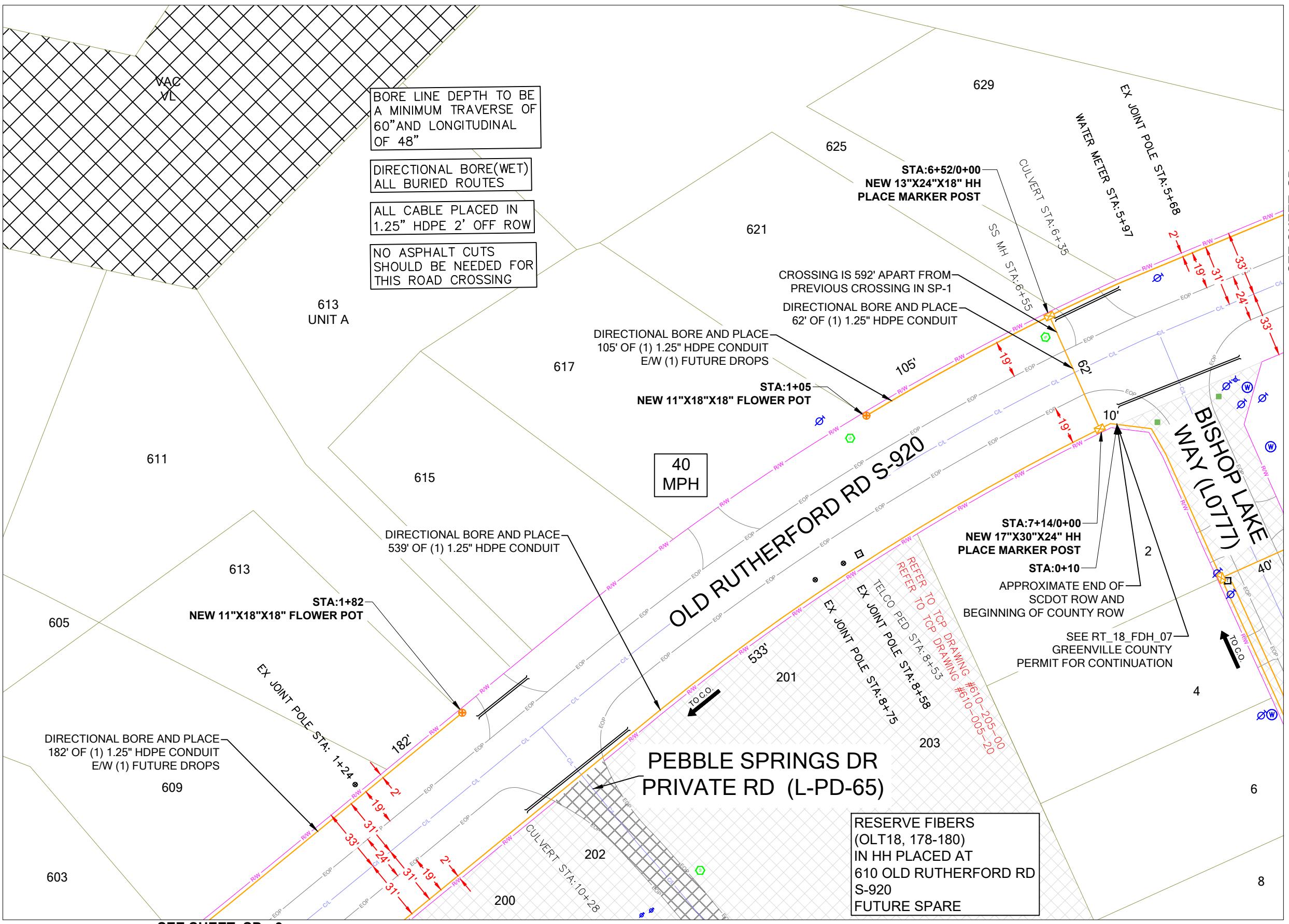


SHEET TITLE

DETAILED VIEW

SHEET NUMBER
SP-1A

DRAWING SHEET
9 OF 21

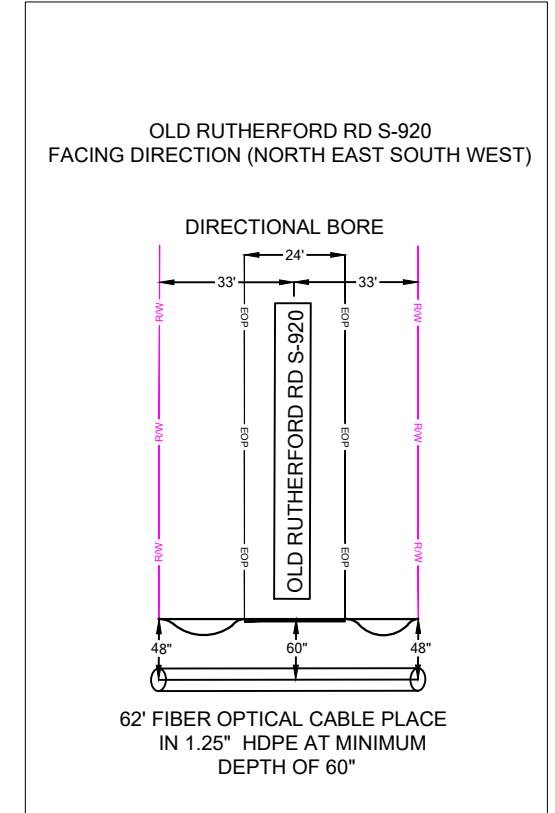


PERMIT NOTES

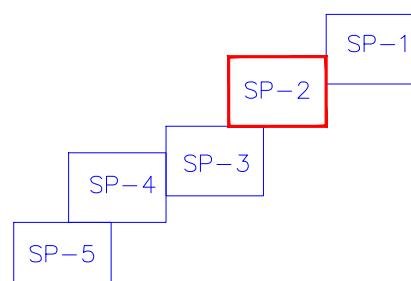


SCDOT ROW FILE: 23.634
SHEET # 9

SEE SHEET SP- 1



SHEET LAYOUT



NOTE: LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

**NOTE: ALL EXISTING UTILITIES
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REFERENCE ONLY.
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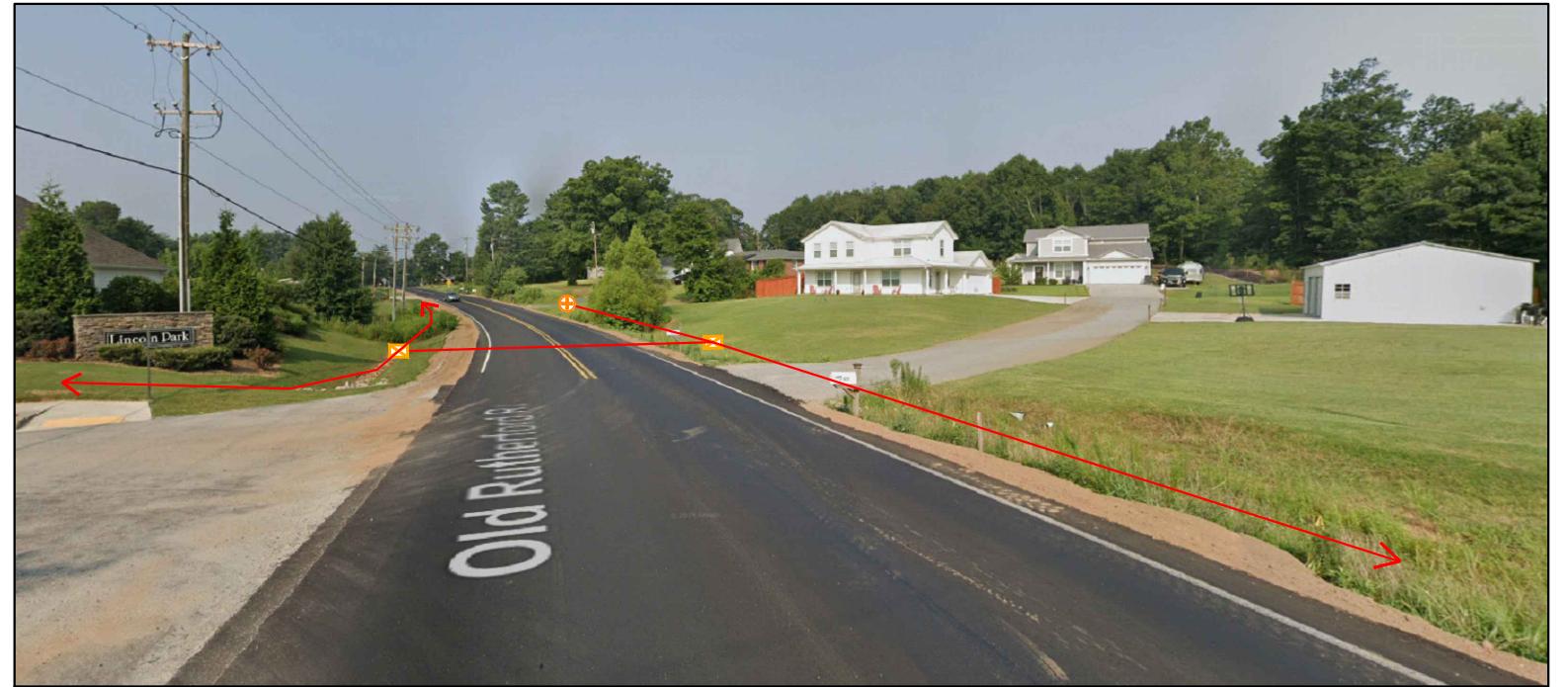
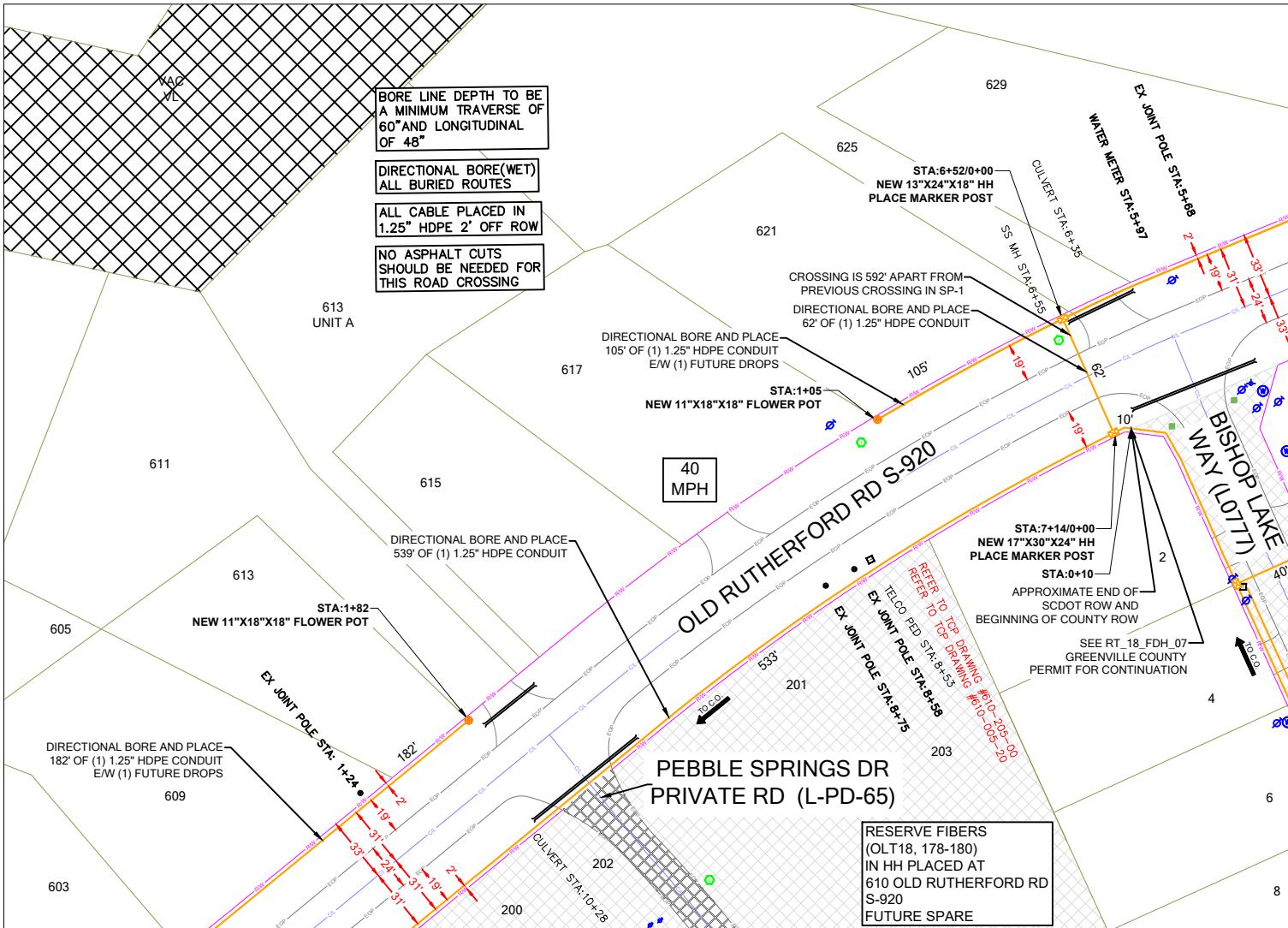
HOURS OF OPERATION

WORKING HOURS
MON-FRI: 9AM-4PM

SHEET TITLE

PERMIT DRAWING

DRAWING SHEET 10 OF 21



PROJECT INFORMATION

SITE NAME:	RT_18_FDH_07
SITE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE
APPROVER:	

SUBMITTAL INFORMATION

REV	DATE	DESCRIPTION	INIT
0	06/19/2024	PERMIT DRAWING	CENT

HOURS OF OPERATION:

WORKING HOURS
MON-FRI: 9AM-4PM

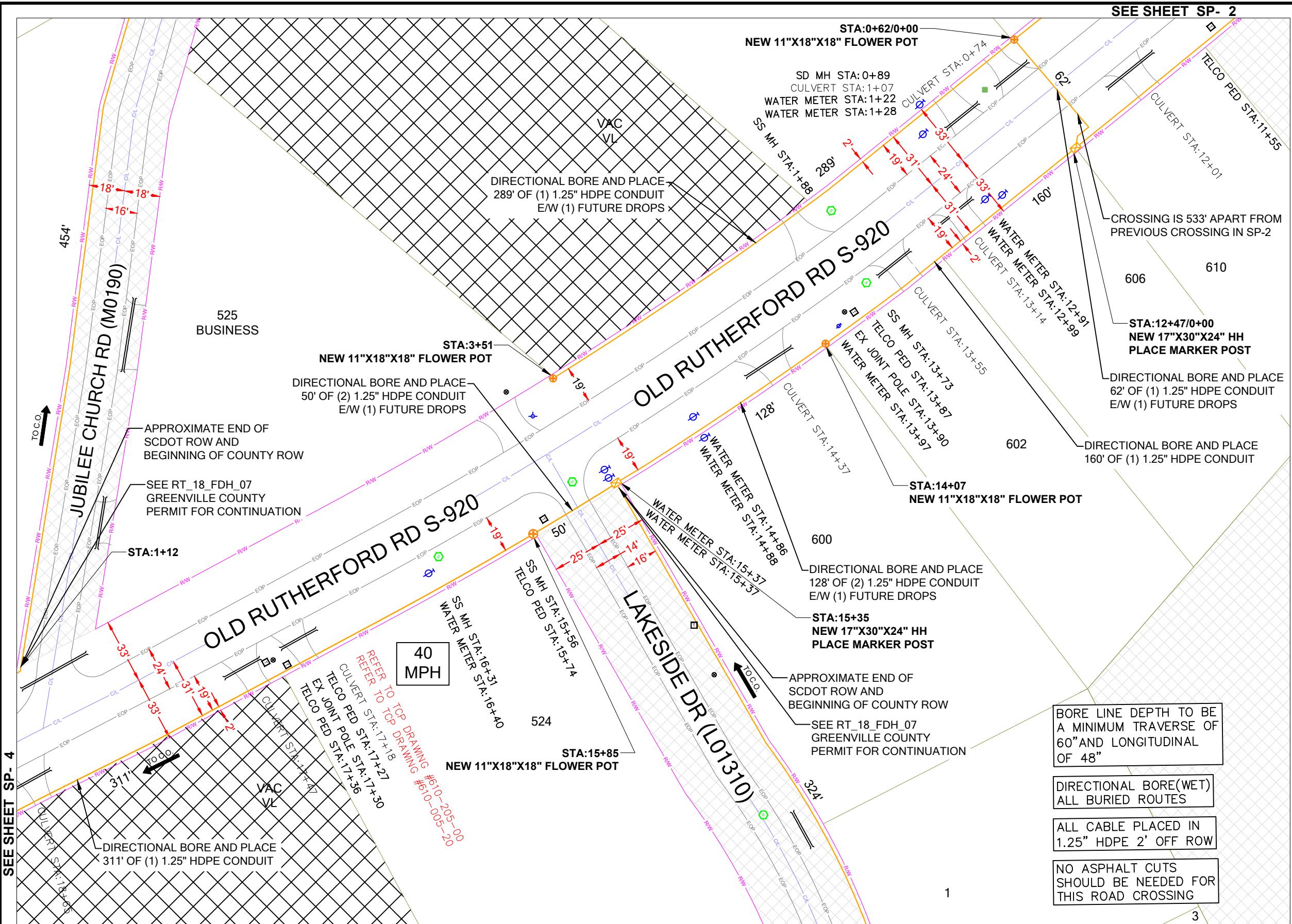


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DETAILED VIEW

SHEET NUMBER
SP-2A

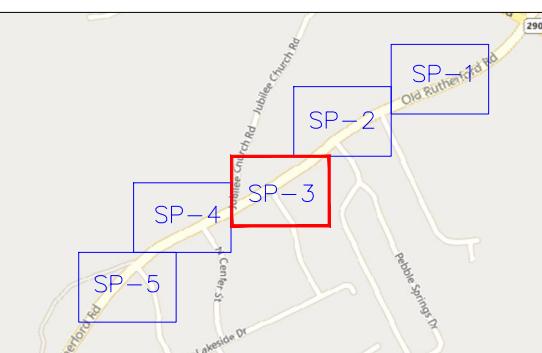
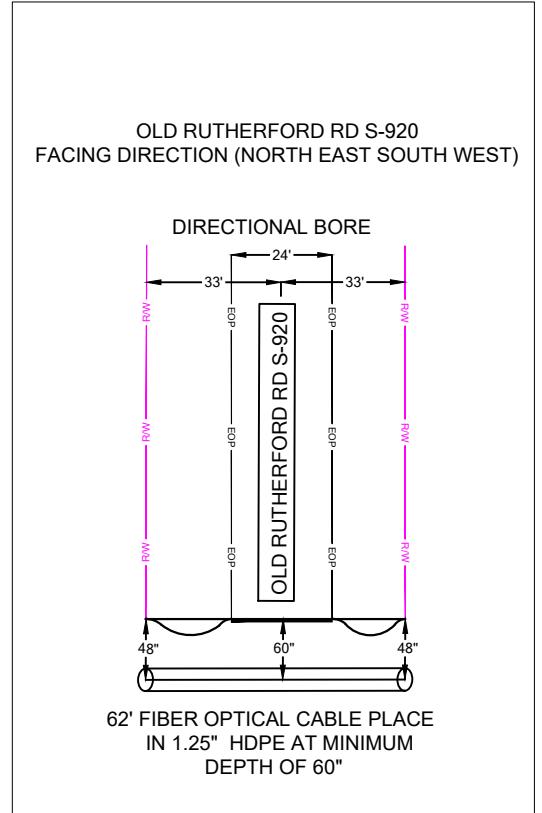
DRAWING SHEET
11 OF 21



PERMIT NOTES



SCDOT ROW FILE: 23.634
SHEET # 9



SHEET TITLE

PERMIT DRAWING

DRAWING SHEET

HEET NUMBER DRAWING SHEET

SB 3 | 13 OF 31

SP-5

12 OF 21

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1

PROJECT INFORMATION

ITE NAME: RT_18_FDH_07

STATE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE

APPROVER: _____

0' 25' 5

SUBMITTAL INFORMATION

	REV	DATE	DESCRIPTION	I
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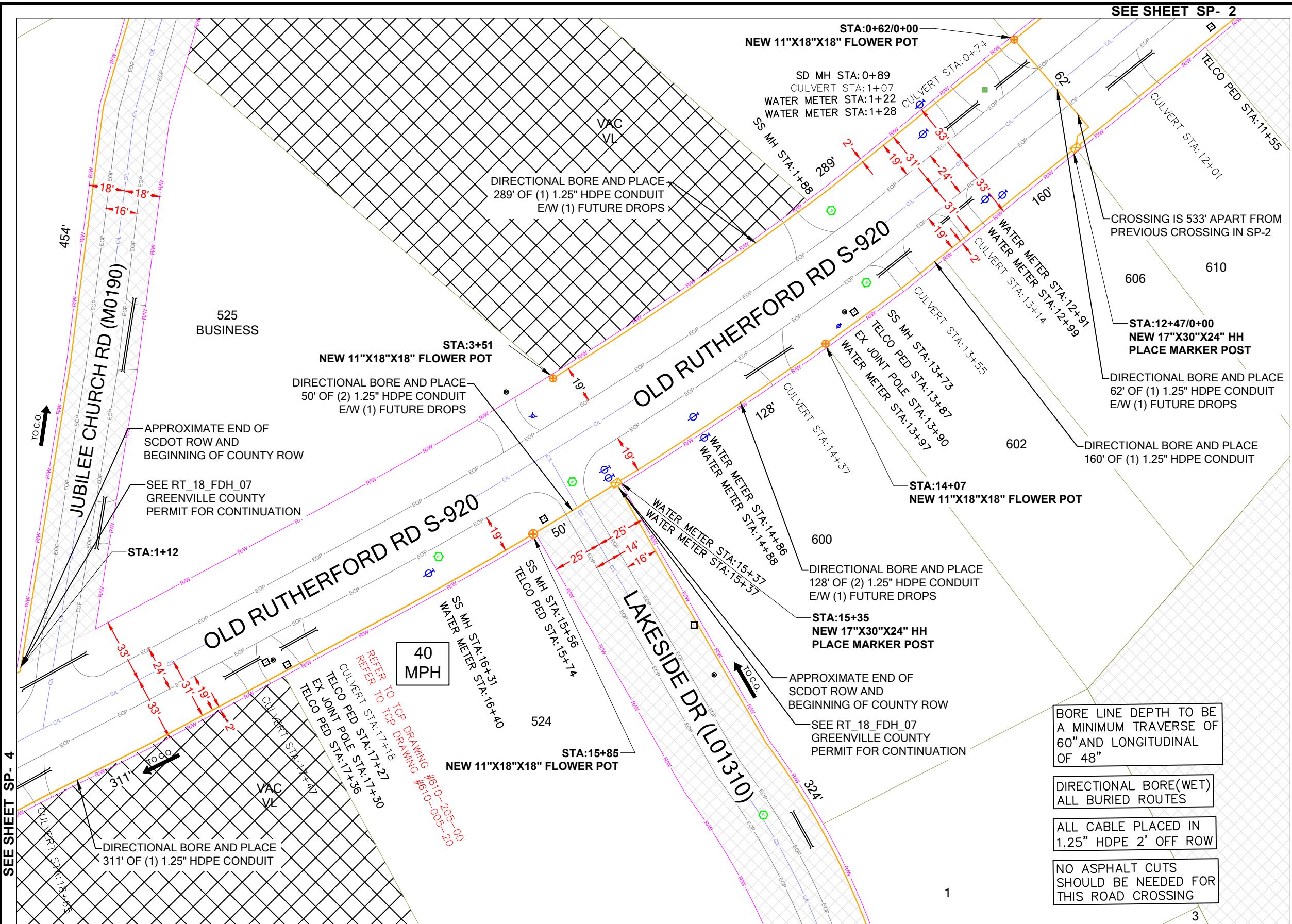
0 06/19/2024 PERMIT DRAWING C

Table 1. Summary of the main characteristics of the four groups of patients.

• HOURS OF OPERATION

WORKING HOURS
MON-FRI: 9AM-4PM

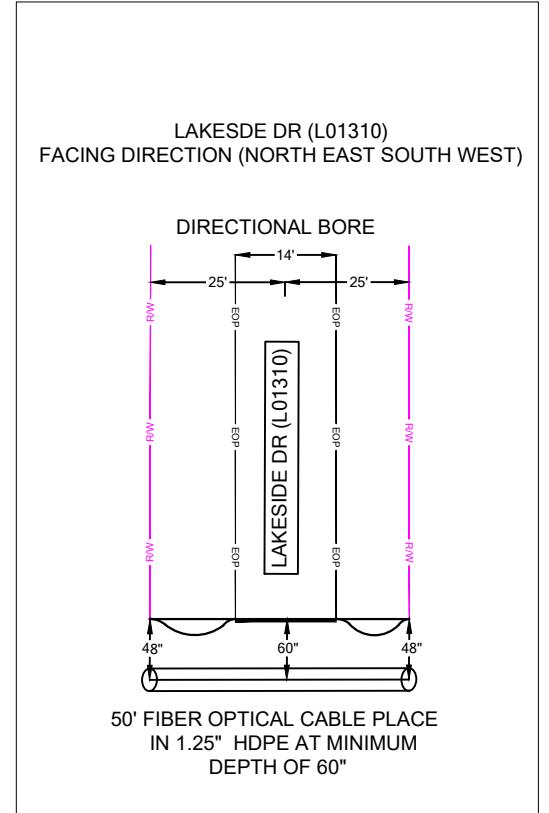
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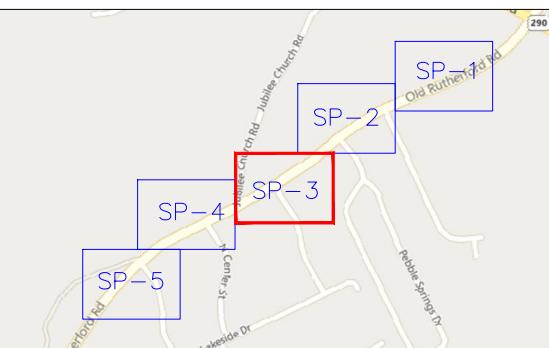
PERMIT NOTES



SCDOT ROW FILE: 23.634
SHEET # 9



SHEET LAYOUT



NOTE: LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

TE: ALL EXISTING UTILITIES
PLACED ON PRINTS FOR
REFERENCE ONLY.
(NOT TO SCALE)



SHEET TITLE

DRAWING SHEET

PROJECT INFORMATION

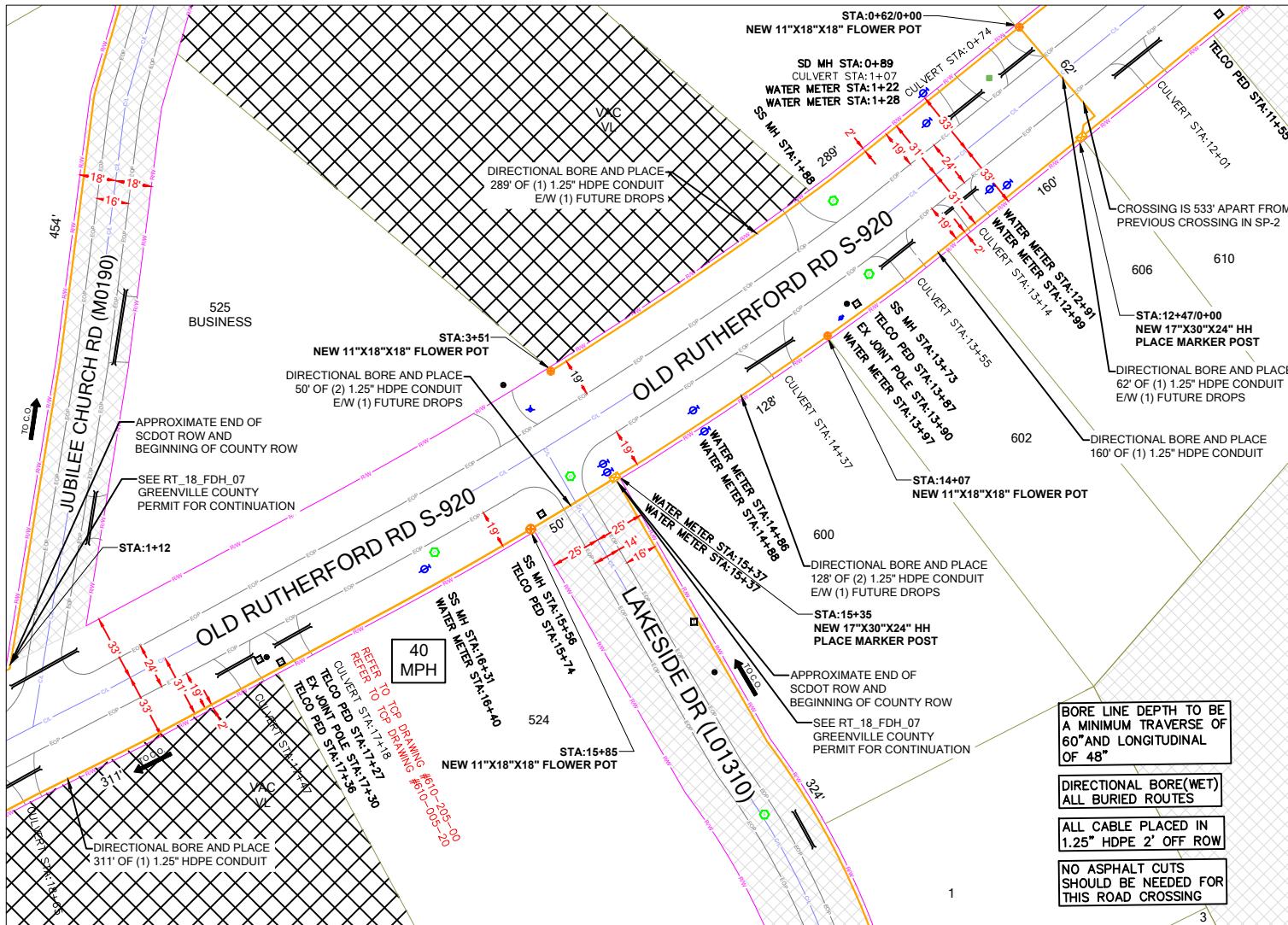
SUBMITTAL INFORMATION

HOURS OF OPERATION:

WORKING HOURS
MON-FRI: 9AM-4PM

ITE NAME:	RT_18_FDH_07		
ITE ADDRESS:	2309 LOCUST HILL RD		
OUNTY:	GREENVILLE		
PPROVER:	0'	25'	50'

REV	DATE	DESCRIPTION	I
0	06/19/2024	PERMIT DRAWING	C



PROJECT INFORMATION

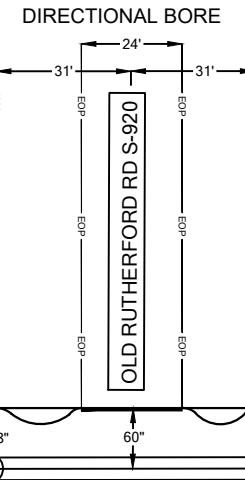
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COUNTY:	GREENVILLE								
APPROVER:									
SHEET NUMBER		DRAWING SHEET		SP-3B			14 OF 21		

PERMIT NOTES



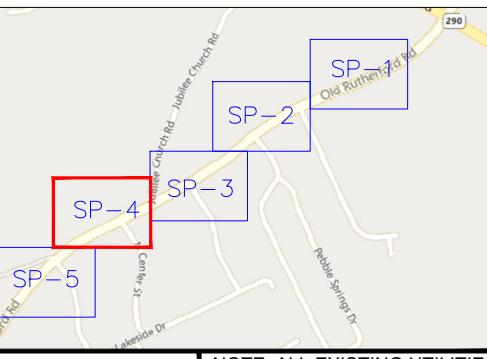
SCDOT ROW FILE: 23.634
SHEET # 8

OLD RUTHERFORD RD S-920
FACING DIRECTION (NORTH EAST SOUTH WEST)



62' FIBER OPTICAL CABLE PLACE
IN 1.25" HDPE AT MINIMUM
DEPTH OF 60"

SHEET LAYOUT



NOTE: LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

NOTE: ALL EXISTING UTILITIES
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REFERENCE ONLY.
(NOT TO SCALE)



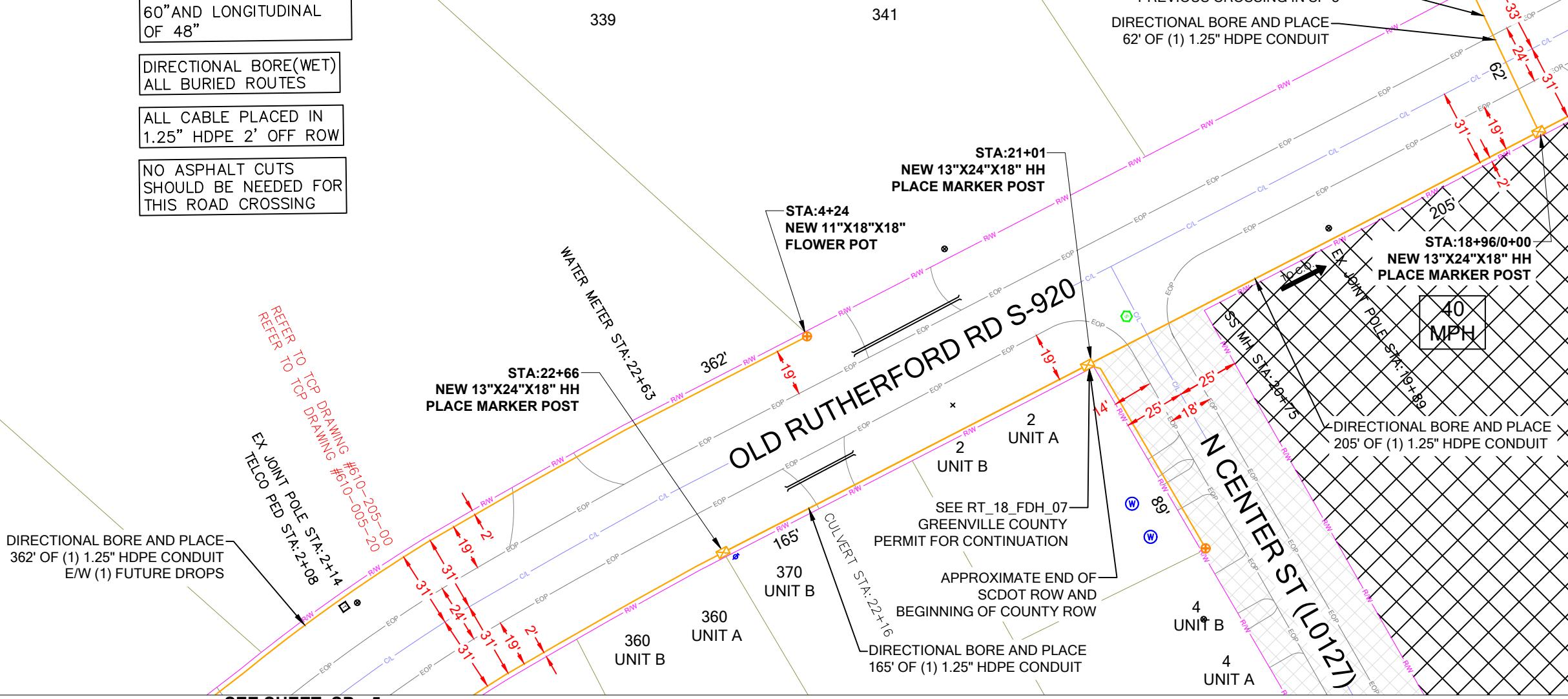
BORE LINE DEPTH TO BE
A MINIMUM TRAVERSE OF
60" AND LONGITUDINAL
OF 48"

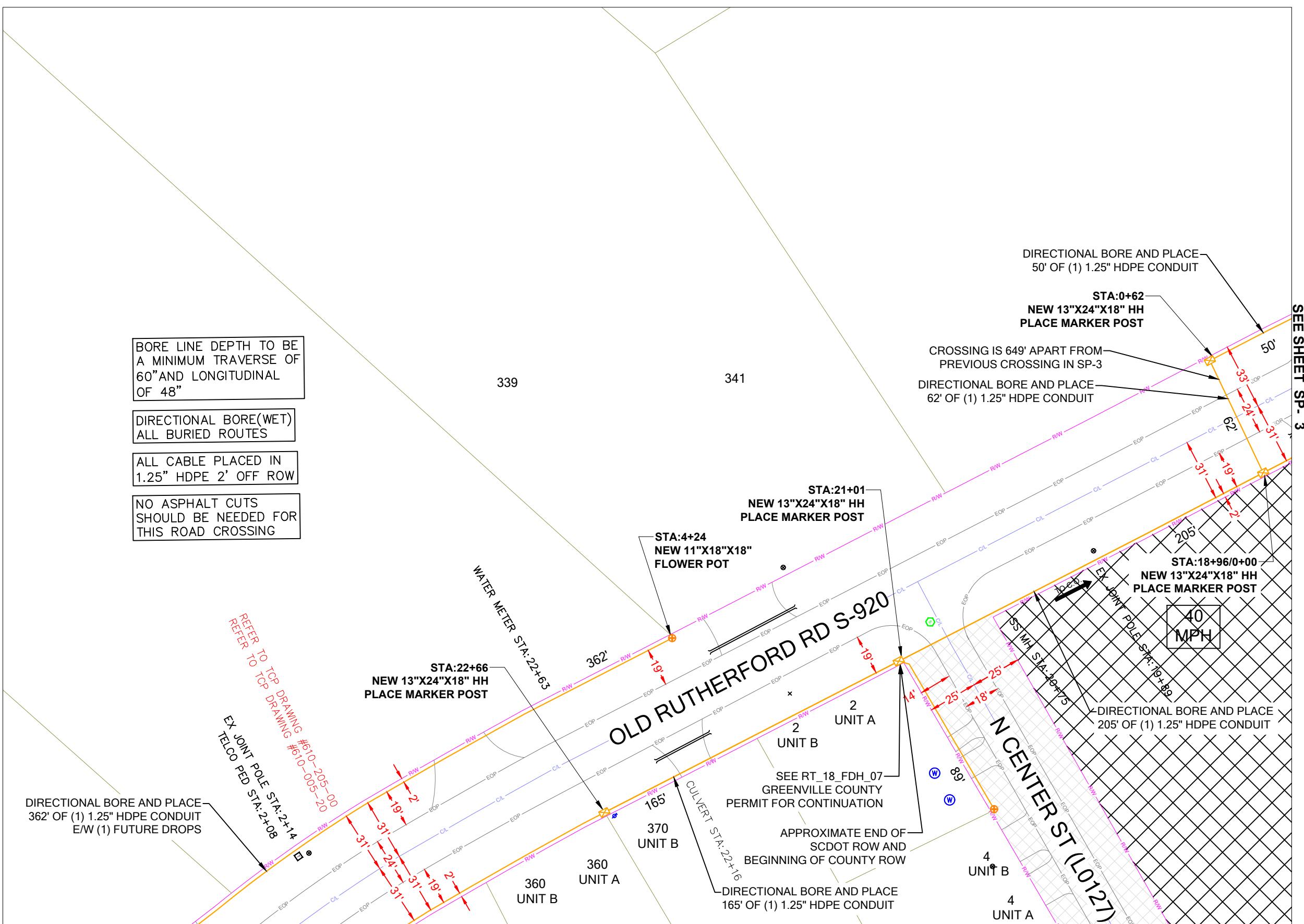
DIRECTIONAL BORE(WET)
ALL BURIED ROUTES

ALL CABLE PLACED IN
1.25" HDPE 2' OFF ROW

NO ASPHALT CUTS
SHOULD BE NEEDED FOR
THIS ROAD CROSSING

REFER TO TCP DRAWING
REFER TO TCP DRAWING
#610-205-00

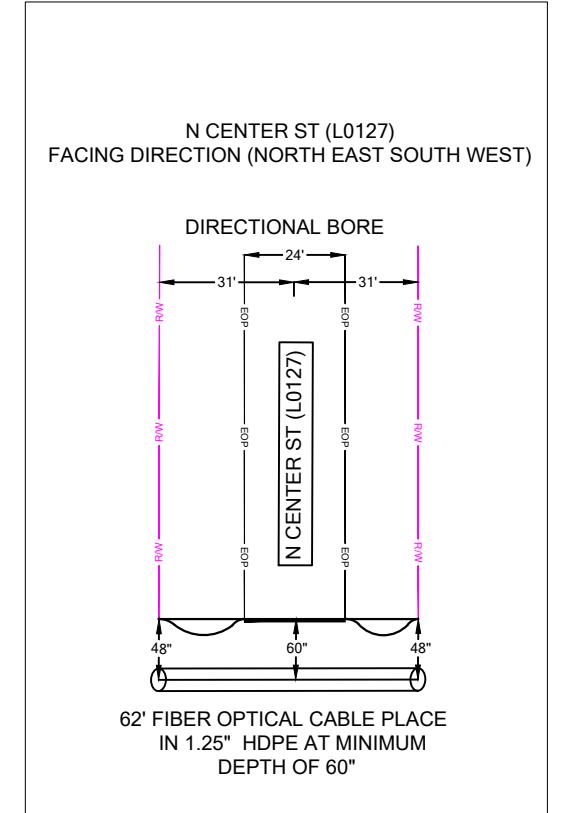




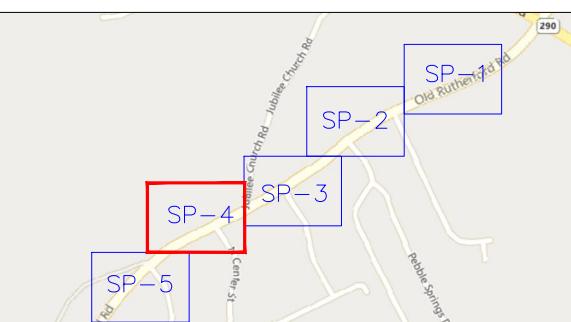
PERMIT NOTES



SCDOT ROW FILE: 23.634
SHEET # 8



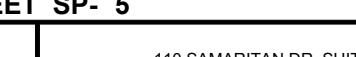
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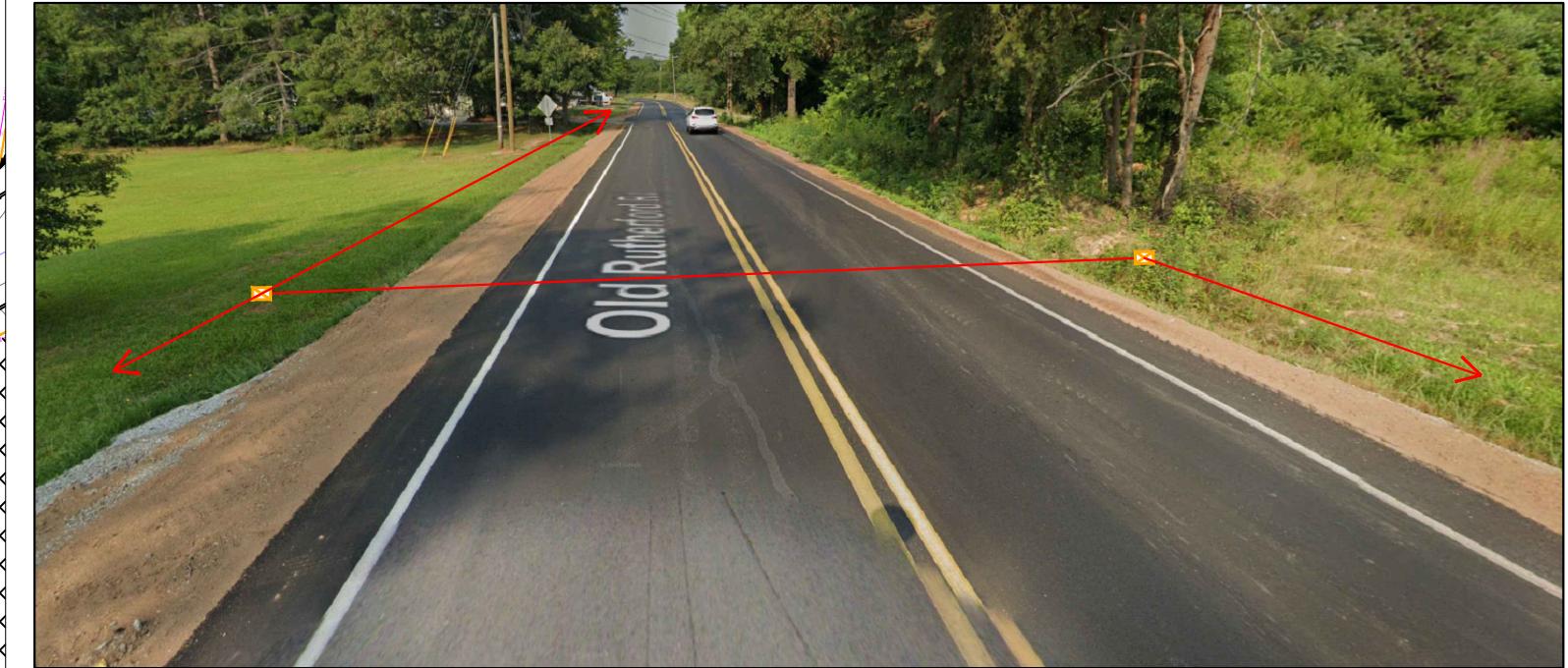
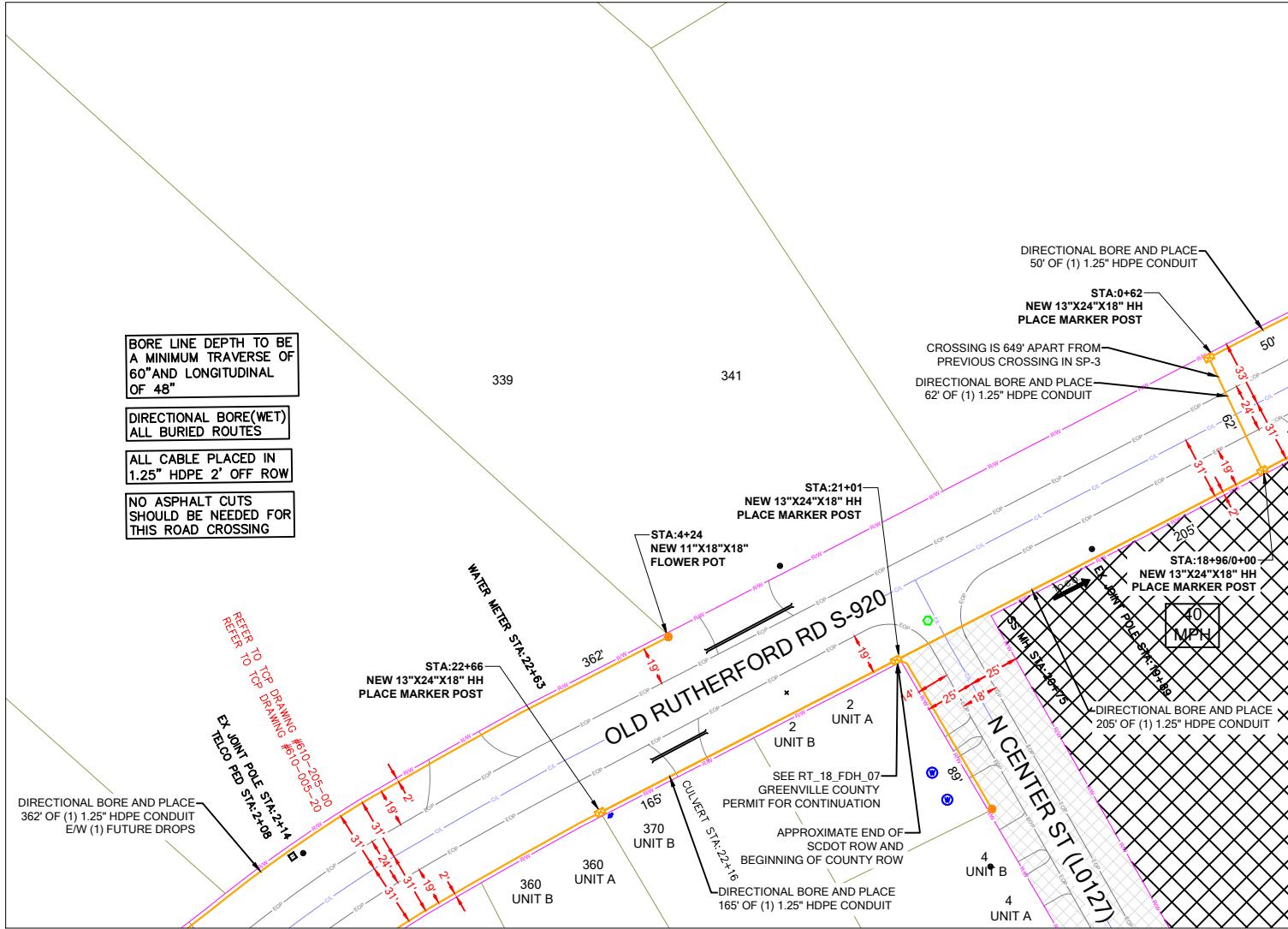


NOTE: LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

TE: ALL EXISTING UTILITIES
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SEE SHEET SP- 5																																	
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SITE NAME:	RT_18_FDH_07																																
SITE ADDRESS:	2309 LOCUST HILL RD																																
COUNTY:	GREENVILLE																																
APPROVER:																																	
REV	DATE	DESCRIPTION	INIT																														
0	06/19/2024	PERMIT DRAWING	CENT																														



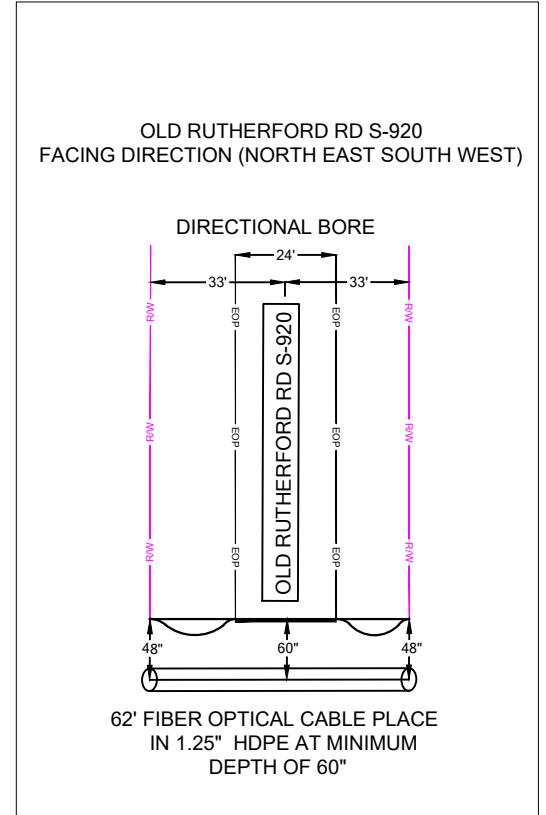
PROJECT INFORMATION

SUBMITTAL INFORMATION				HOURS OF OPERATION:			SHEET TITLE DETAILED VIEW
SITE NAME:	REV	DATE	DESCRIPTION	INIT	WORKING HOURS MON-FRI: 9AM-4PM		
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APPROVER:							

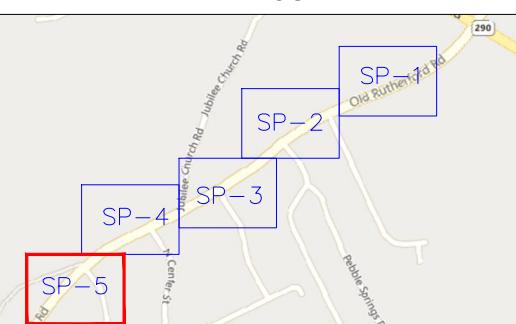
PERMIT NOTES



SCDOT ROW FILE: 23.634
SHEET # 8

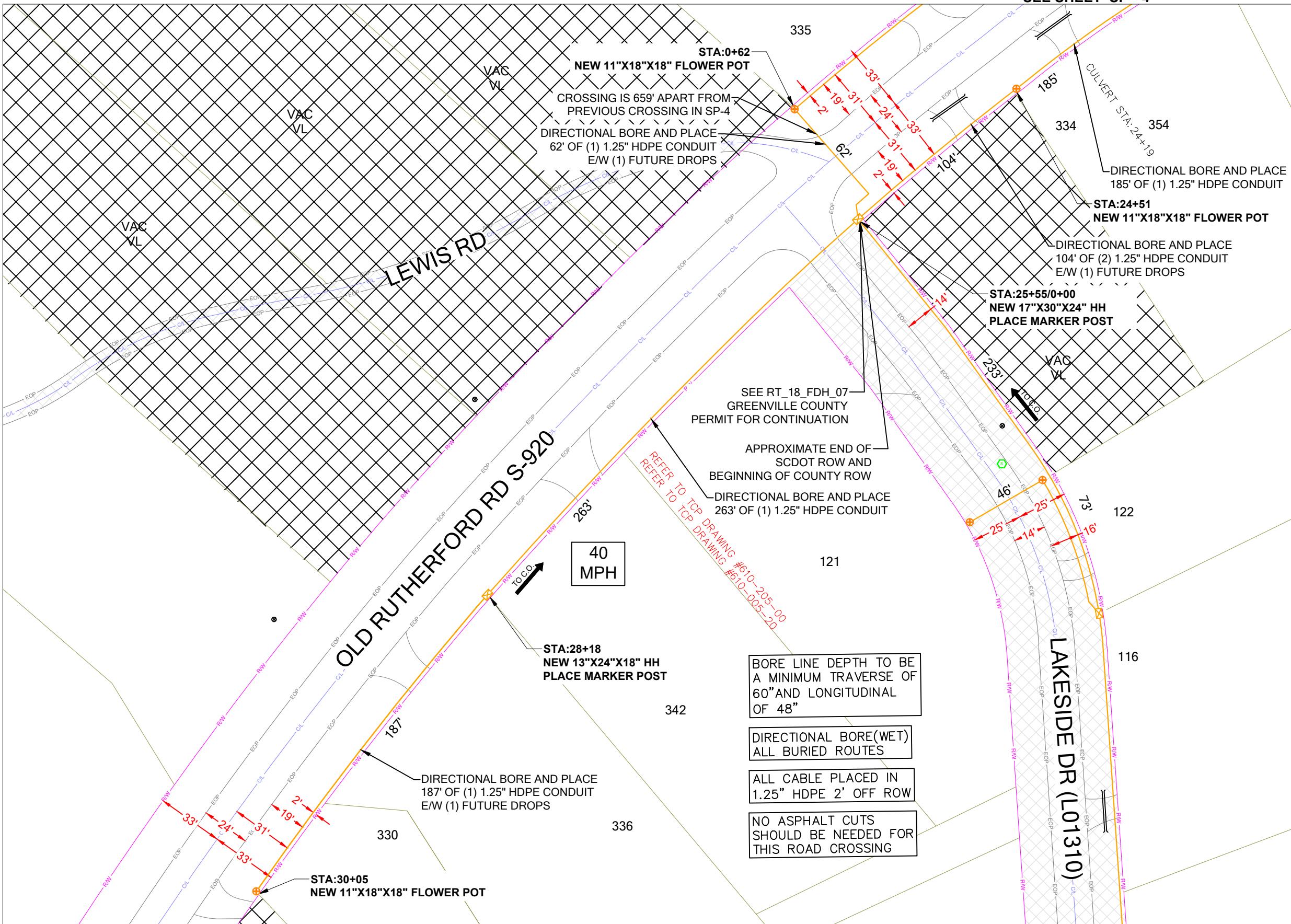


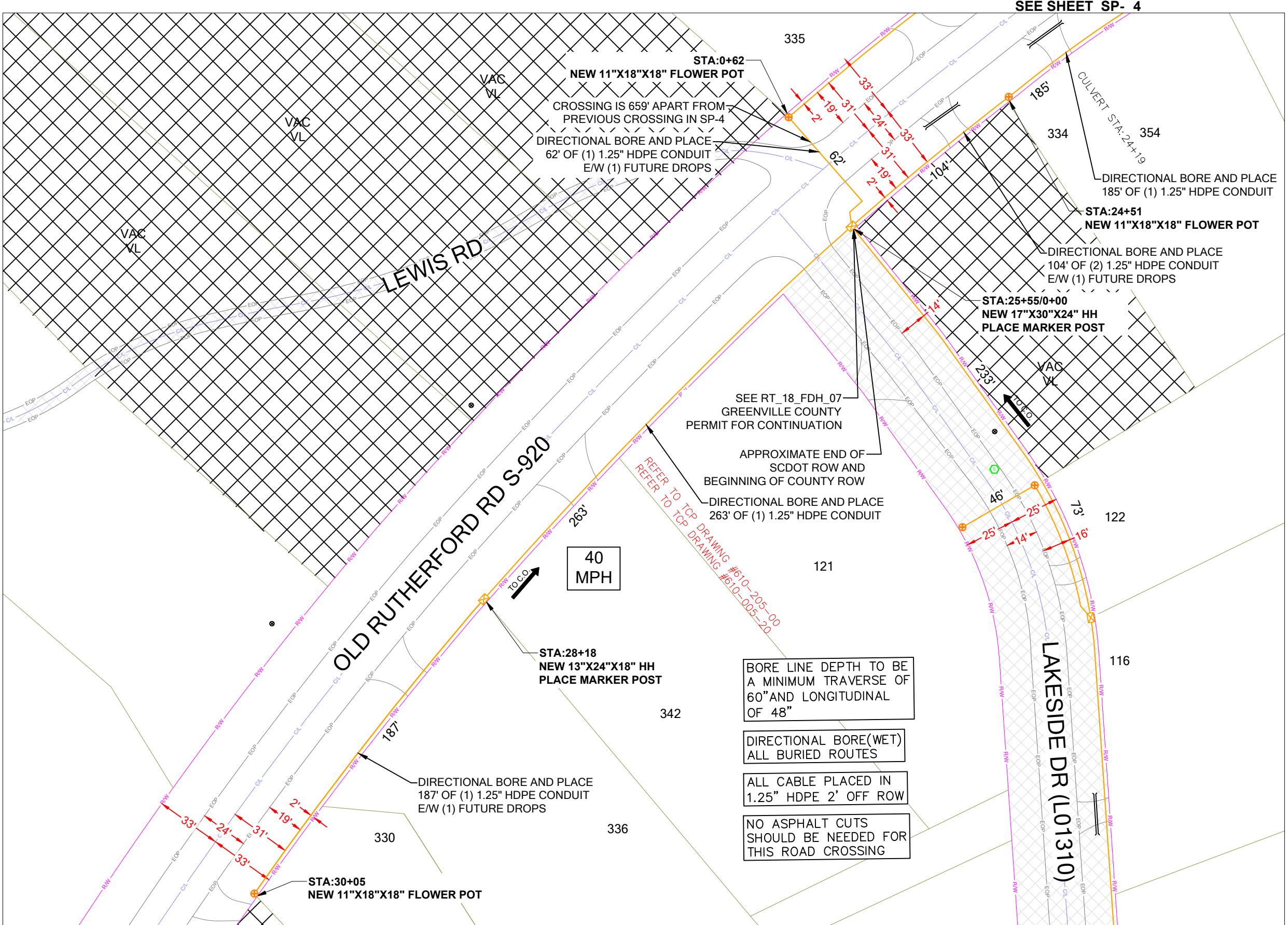
SHEET LAYOUT



NOTE: LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

NOTE: ALL EXISTING UTILITIES PLACED ON PRINTS FOR REFERENCE ONLY. (NOT TO SCALE)

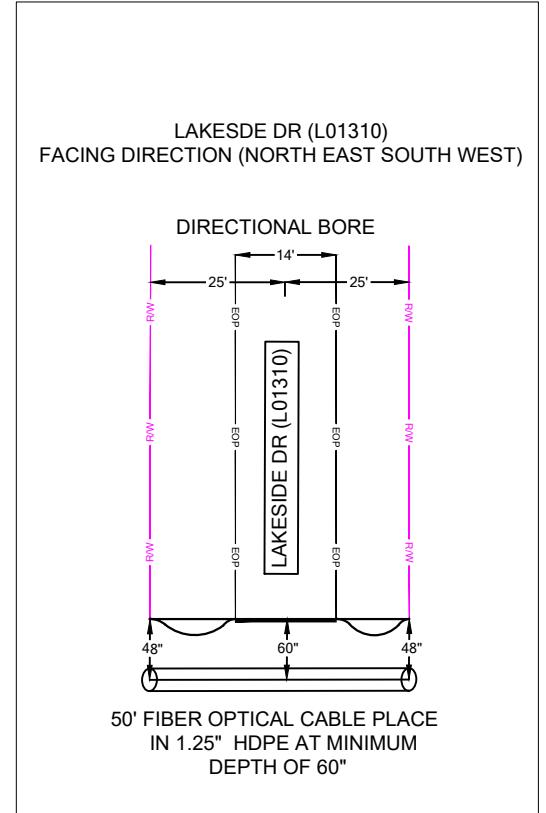




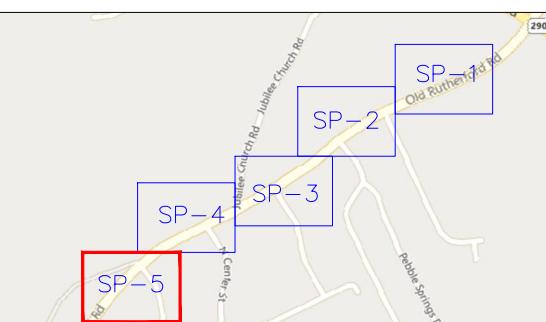
PERMIT NOTES



SCDOT ROW FILE: 23.634
SHEET # 8



SHEET LAYOUT



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PROJECT INFORMATION

SUBMITTAL INFORMATION

HOURS OF OPERATION:

WORKING HOURS
MON-FRI: 9AM-4PM

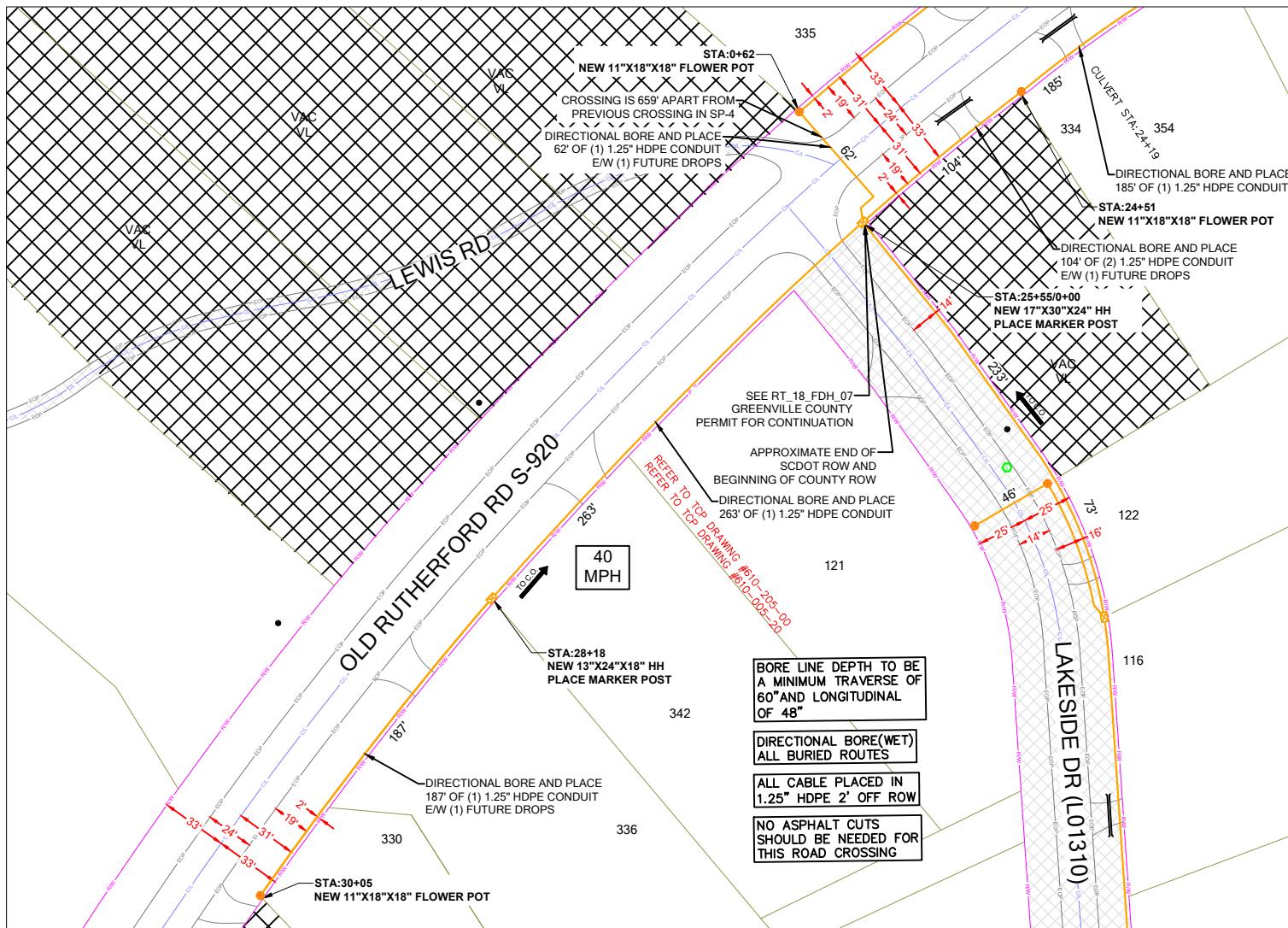
SHEET TITLE

PERMIT DRAWING

DRAWING SHEET

P-5A

19 OF 21



STATE REFERENCE

OLD RUTHERFORD RD S-920 - DOCKET NUMBER: 23.634 - PAGE NUMBER 8-9 OF 27

PROJECT INFORMATION

SITE NAME:	RT_18_FDH_07
SITE ADDRESS:	2309 LOCUST HILL RD
COUNTY:	GREENVILLE
APPROVER:	

SUBMITTAL INFORMATION

REV	DATE	DESCRIPTION	INIT
0	06/19/2024	PERMIT DRAWING	CENT

HOURS OF OPERATION:

WORKING HOURS MON-FRI: 9AM-4AM



SHEET TITLE

SCDOT ROW PLANS

SHEET NUMBER

S-REF

DRAWING SHEET
21 OF 21