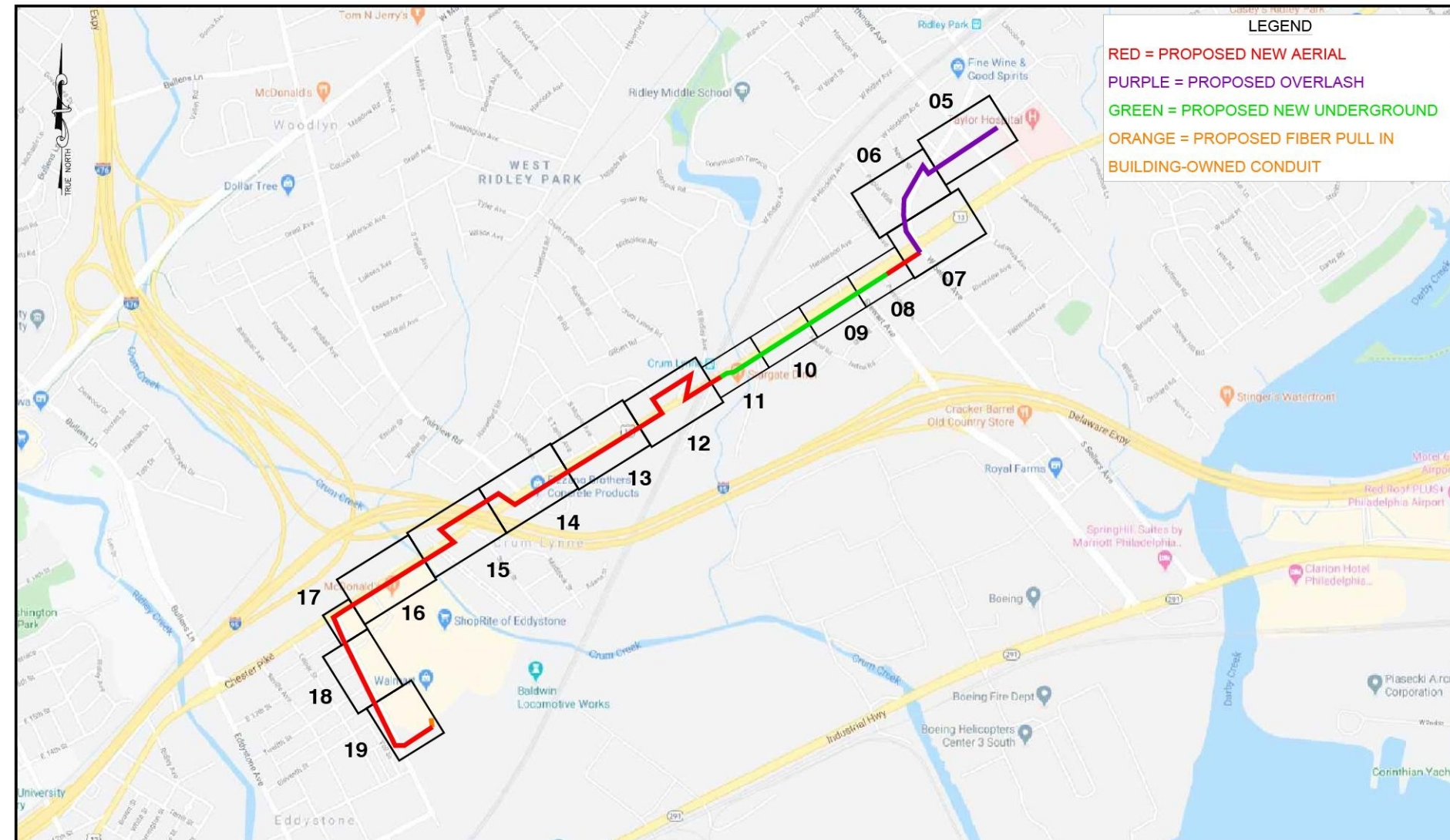


ADDRESS: 1570 CHESTER PIKE
 EDDYSTONE, PA 19022
 COUNTY: DELAWARE COUNTY
 PROJECT NAME: 1570 CHESTER PIKE
 CLLI: EDDYPAAV

CERTIFIED CORRECT PLANS
Andrew B. Reed
 Professional Engineer
 Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
 ATTEST *Rosemary Chantler*
 Secretary

A-2023-3040026



SITE LOCATION

CONTACTS

OWNER:
 CENTURYLINK/LEVEL 3 COMMUNICATIONS
 CONTACT:
 NAME: DAN COMPITELLO
 CELL: (267) 421-2395
 EMAIL: daniel.compitello@centurylink.com

ENGINEERING CONTRACTOR:
 NB+C ENGINEERING SERVICES, LLC
 1777 SENTRY PARKWAY WEST
 VEVA 17, SUITE 400
 BLUE BELL, PA 19422
 CONTACT:
 NAME: FELIX ORTIZ COLON, E.I.T., S.I.T.
 CELL: (610) 716-6061
 OFFICE: (267) 460-0122 EXT 2025
 EMAIL: fortizcolon@nbclic.com

SITE CONTACT:
 NAME: MEGAN MITCHELL
 PHONE: (610) 447-1860
 EMAIL: store-mgr.s02830@stores.us.wal-mart.com



LEVEL 3 PROJECT MANAGER:
 DAN COMPITELLO
 ENGINEERING FIRM:
 NB+C ENGINEERING SERVICES, LLC
 FIREWORKS NUMBER:
 N.944888
 SITE ADDRESS:
 1570 CHESTER PIKE
 EDDYSTONE, PA 19022
 EDDYSTONE BOROUGH
 DELAWARE COUNTY

REVISIONS

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- 02 LEGEND
- 03 GENERAL NOTES
- 04 AMTRAK GENERAL NOTES
- 05 PROJECT SHEET OSP
- 06 PROJECT SHEET OSP
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Krupakaran Kolandavellu

PE STAMP & APPROVAL

AS-BUILTS

ORIGINAL:	
REVISED:	

SCALE

B SIZE DWG: NOT TO SCALE
 D SIZE DWG: NOT TO SCALE

SHEET: 01 OF 33

COVER SHEET/
 SITE LOCATION

SCOPE OF WORK

INSTALL APPROXIMATELY 8068 LINEAR FEET OF NEW (LEVEL 3) 288 AND 48 COUNT FIBER OPTIC CABLE FROM EXISTING AERIAL SPlice CASE TO FDP IN ELECTRICAL ROOM OF 1570 CHESTER PIKE.

PA ONE CALL

TICKET#: 20201772178		06/25/20
UTILITY COMPANY	RESPONSE CODE	DATE
1. EDDYSTONE BOROUGH	999	N/A
2. AUQA PENNSYLVANIA	999	N/A
3. BUCKEYE PARTNERS	001	06/25/20
4. COMCAST	001	06/25/20
5. PECO ENERGY	001	06/26/20
6. VERIZON	002	06/29/20

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SHEET: 02 OF 33

LEGEND

LINETYPES

	12F	12 COUNT FIBER OPTIC CABLE
	24F	24 COUNT FIBER OPTIC CABLE
	48F	48 COUNT FIBER OPTIC CABLE
	144F	144 COUNT FIBER OPTIC CABLE
	B	EXISTING UG FIBER OPTIC CABLE
	DB	PROPOSED UG CONDUIT (DIRECTIONAL BORE)
	B	PROPOSED UG CONDUIT (OPEN-CUT TRENCH)
		EXISTING AERIAL STRAND
		PROPOSED AERIAL STRAND
		EXISTING CONDUIT
		PROPOSED CONDUIT
		EXISTING INNERDUCT
		PROPOSED INNERDUCT
	E	PROPOSED ELECTRIC
	PVC	PVC CONDUIT
	F	FIBER OPTIC CABLE
	CATV	CABLE TV
	T	TELEPHONE
	E	ELECTRIC
	G	GAS
	W	WATER
	SEW	SANITARY SEWER
	SD	STORM DRAIN
	STM	STEAM PIPE
	OIL	OIL PIPE
	UNK	UNKNOWN UTILITY
		RIGHT-OF-WAY
		PROPERTY LINE
		MUNICIPAL BOUNDARY
		COUNTY BOUNDARY
		CHAIN-LINK FENCE
		WOOD FENCE
		GUARD RAIL
		STONE WALL
		STREAM / RIVER
		TREELINE
		RAILROAD TRACKS
		CENTERLINE

PA ONE CALL RESPONSE CODES	
001	CLEAR, NO FACILITIES
002	CONFLICT, LINES NEARBY, DIRECT CONTACT TO FOLLOW BY FACILITY OWNER
003	FIELD MARKED
004	INSUFFICIENT INFORMATION, DO NOT DIG
005	NOT MARKED DUE TO NO ACCESS
006	SCHEDULED DATE OF MARK
007	VOICE MESSAGE (TEMPORARY COMMUNICATION VALID FOR 30 DAYS)
082	DESIGN CONFLICT - PLEASE SEND PLANS TO (FACILITY OWNER'S ADDRESS WILL BE PROVIDED)
083	ENGINEERING COMPLETED - A PDF MARKED UP PLANS WERE TO THE REQUESTOR
090	WILL ATTEND MEETING
091	CLEAR - WILL NOT ATTEND MEETING
092	REQUESTS MEETING, DIRECT CONTACT TO FOLLOW BY FACILITY OWNER
095	DID NOT ATTEND MEETING, DIRECT CONTACT TO FOLLOW BY FACILITY OWNER
096	AGREES NO MEETING REQUIRED
099	ATTENDED MEETING, REACHED AGREEMENT
999	DID NOT RESPOND THROUGH PA ONE CALL

SYMBOLS

	FDP	TERMINATION (FIBER DISTRIBUTION PANEL)
	100'	PROPOSED AERIAL STORAGE LOOP
	100'	EXISTING AERIAL STORAGE LOOP
	50'	PROPOSED UNDERGROUND STORAGE COIL
	50'	EXISTING UNDERGROUND STORAGE COIL
		PROPOSED FIBER OPTIC SPLICE POINT
		EXISTING FIBER OPTIC SPLICE POINT
	2X3	PROPOSED LEVEL 3 HANDHOLE / VAULT
	2X3	EXISTING HANDHOLE / VAULT
	MH	PROPOSED LEVEL 3 MANHOLE
	MH	EXISTING LEVEL 3 MANHOLE
		PROPOSED BORE PIT
		PROPOSED TEST PIT
		PROPOSED POLE RISER
		EXISTING POLE RISER
		PROPOSED DOWN GUY WITH ANCHOR
		PROPOSED DOWN GUY WITH EXISTING ANCHOR
		EXISTING DOWN GUY WITH ANCHOR
		PROPOSED POLE TO POLE GUY
		EXISTING POLE TO POLE GUY
		PROPOSED OVERHEAD GUY
		EXISTING OVERHEAD GUY
	E	ELECTRIC HANDHOLE / VAULT
	T	TELCO HANDHOLE / VAULT
		TELCO PEDESTAL
		PROPOSED POLE GROUND (1ST, LAST & EVERY 10TH POLE)
		EXISTING POLE GROUND

SYMBOLS

	#	PHOTO VIEW CALLOUT
	BUILDING NAME STREET	BUILDING CALLOUT
		PROPOSED UTILITY POLE
		TELEPHONE POLE
		JOINT USE POLE
		JOINT USE WITH TRANSFORMER POLE
		ELECTRIC POLE
		ELECTRIC WITH TRANSFORMER POLE
		LIGHT POLE
		CONCRETE POLE
		STEEL POLE
		FIBERGLASS POLE
	SD	CATCH BASIN / STORM DRAIN / INLET
	W	WATER VALVE
	W	WATER MANHOLE
		FIRE HYDRANT
		GAS VALVE
	G	GAS MANHOLE
	T	TELCO MANHOLE
	E	ELECTRIC MANHOLE
	U	UNKNOWN UTILITY MANHOLE
	SD	STORM DRAIN MANHOLE
	SS	SANITARY SEWER MANHOLE
		TREE
		TRANSFORMER ON PAD
		ELECTRIC METER
		ELECTRIC DISTRIBUTION PANEL

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 DELAWARE COUNTY

AMTRAK GENERAL NOTES:

ALL UNDERGROUND UTILITIES, CABLE, AND FACILITIES MUST BE LOCATED AND PROTECTED BEFORE ANY EXCAVATING, DRILLING, BORING/DIRECTIONAL DRILLING, GROUND PENETRATING ACTIVITIES, OR CONSTRUCTION TAKES PLACE. THIS INCLUDES RAILROAD AND COMMERCIAL UTILITIES, CABLES, DUCT LINES, AND FACILITIES. THESE ACTIVITIES WILL NOT BE PERFORMED IN CLOSE PROXIMITY TO THE RAILROAD DUCT LINES UNLESS MONITORED BY ON-SITE AMTRAK COMMUNICATIONS AND SIGNAL (C&S) DEPARTMENT PERSONNEL. HAND DIGGING MAY BE REQUIRED, AS DIRECTED BY AMTRAK THROUGH THE ON-SITE AMTRAK C&S SUPPORT PERSONNEL. AMTRAK MAINTAINS THE RIGHT TO ACCESS ALL EXISTING CABLES AND CONDUITS THROUGHOUT CONSTRUCTION. AMTRAK ALSO RESERVES THE RIGHT TO UPGRADE AND INSTALL NEW CABLES AND CONDUITS IN THE AFFECTED AREA. THE "ONE-CALL" PROCESS MUST BE FOLLOWED. BE AWARE THAT AMTRAK IS NOT PART OF THE ONE-CALL PROCESS; CONTACT AMTRAK ENGINEERING TO HAVE ALL RAILROAD UNDERGROUND UTILITIES ASSETS LOCATED. IF REQUESTED BY AMTRAK, EXISTING DEPTHS OF UTILITIES BEING CROSSED MUST BE VERIFIED THROUGH TEST PUTS PERFORMED BY THE CONTRACTOR AS DIRECTED BY AND UNDER THE DIRECT SUPERVISION OF AMTRAK C&S SUPPORT PERSONNEL. PRECAUTIONS MUST BE TAKEN TO PREVENT ANY INTERRUPTION TO RAILROAD OPERATION.

SIGNAL PREVIEW MUST NOT BE OBSTRUCTED. CONSULTANTS PERFORMING WORK FOR AMTRAK OR ON AMTRAK PROPERTY MUST SHOW THAT THERE IS ADEQUATE SIGNAL PREVIEW. IN ADDITION, ALL TEMPORARY STRUCTURES, FORMWORK, EQUIPMENT, ETC. MUST COMPLY DURING CONSTRUCTION.

AMTRAK C&S PERSONNEL MUST FIELDVERIFY THAT THERE IS NO SIGNAL EQUIPMENT IN THE WAY OF THE PROJECT AND THAT SIGNAL PREVIEW IS NOT BEING OBSTRUCTED.

IF WORK SHALL BE PERFORMED ON RAILROAD PROPERTY THAT INVOLVES HEAVY TRUCKS, EQUIPMENT, OR MACHINERY ALONG THE RIGHT-OF-WAY, DUCT LINES AND PULL BOXES SHALL BE INSPECTED BY ONSITE AMTRAK PERSONNEL AND THE EQUIPMENT OPERATOR TO INSURE THEY CAN WITHHOLD THE APPROPRIATE WEIGHT. REFER TO TIERS & STATIC WHEEL LOAD RATINGS DOCUMENT.

ANY WORK (OR EQUIPMENT BEING STAGES ONSITE DURING CONSTRUCTION) PERFORMED AT OR NEAR A RAILROAD CROSSING MUST NOT OBSTRUCT THE VIEW OF FLASHING LIGHT UNITS OR GATES TO ONCOMING TRAFFIC.

ALL PERSONS THAT ARE ON OR ADJACENT TO RAILROAD PROPERTY MUST SUCCESSFULLY COMPLETE THE CONTRACTOR ORIENTATION TRAINING. ALL CONTRACTORS MUST CARRY THEIR "AMTRAK CONTRACTOR ROADWAY WORKER PROTECTION" CARD WITH THEM AT ALL TIMES WHILE ON OR ADJACENT TO RAILROAD PROPERTY.

ALL WORK ON OR ADJACENT RAILROAD PROPERTY MUST COMPLY WITH AMTRAK ENGINEERING PRACTICES EP3014 - MAINTENANCE AND PROTECTION OR RAILROAD TRAFFIC DURING CONTRACTOR OPERATIONS.

THE TRACKS MUST BE PROTECTED DURING EXCAVATION FOR NEW POLE INSTALLATION IN ACCORDANCE WITH AMTRAK EP3014 SPEC 02261. SEE SKETCH 1 IN AMTRAK EP3014 SPEC 02261 FOR GUIDANCE.

RAILS MUST BE PROTECTED AGAINST DEBRIS. RUST, SAND, METAL SHAVINGS OR OTHER MATERIAL CAN INTERFERE WITH THE PROPER SHUNTING SENSITIVITY OF THE TRACK CIRCUIT.

PRIOR TO ENTERING AMTRAK'S PROPERTY FOR ANY WORK, THE CONTRACTOR MUST EXECUTE AMTRAK'S STANDARD TEMPORARY PERMIT TO ENTER UPON PROPERTY (PTE). THE FULLY EXECUTED PTE, WRITTEN NOTICE TO PROCEED FROM AMTRAK THAT ALL REQUIREMENTS OF THE PRE HAVE BEEN MET AND PROOF OF SAFETY TRAINING MUST, AT ALL TIMES, BE FURNISHED BY THE CONTRACTOR AT THE PROJECT SITE.

ALL PERSONS THAT ARE ON OR ADJACENT TO THE RAILROAD PROPERTY MUST SUCCESSFULLY COMPLETE THE CONTRACTOR ORIENTATION TRAINING. ALL CONTRACTORS MUST CARRY THEIR "AMTRAK CONTRACTOR ROADWAY WORKER PROTECTION" CARD WITH THEM AT ALL TIMES WHILE ON OR ADJACENT TO RAILROAD PROPERTY.

ANY DEBRIS OR DAMAGE RESULTING FROM WORK SHALL BE IMMEDIATELY REPORTED TO THE RAILROAD. RAILROAD SHALL BE REPAIRED BY RAILROAD FORCES AT PROJECT EXPENSE.

AMTRAK RESERVES THE RIGHT FOR ACCESS TO THE PARCEL DURING CONSTRUCTION IF NECESSARY TO MAINTAIN ASSOCIATED CATENARY STRUCTURES, TRACK, AND ANY ASSOCIATED ELECTRICAL TRANSMISSION AND FEEDER LINES LOCATED ALONG THE CORRIDOR.

ANY WORK TO BE PERFORMED WITHIN 15 FEET OF THE OVERHEAD WIRES MUST BE DONE UNDER THE PROTECTION OF AN AMTRAK CLASS "A" EMPLOYEE.

ANY PROPOSED WORK WITHIN 25 FEET OF THE CENTERLINE OF A TRACK REQUIRES AMTRAK RWP PROTECTION.

WHENEVER WORK IS PERFORMED IN THE VICINITY OF ELECTRIFIED TRACKS AND/OR HIGH VOLTAGE WIRES, PARTICULAR CARE MUST BE EXERCISED, AND RAILROAD'S REQUIREMENTS REGARDING CLEARANCE TO BE MAINTAINED BETWEEN EQUIPMENT AND TRACKS AND/OR ENERGIZED WIRES. THE CONTRACTORS MUST SUPPLY AN ADEQUATE LENGTH OF GROUNDING CABLE (4/0 COPPER WITH APPROVED CLAMPS) FOR EACH PIECE OF EQUIPMENT WORKING NEAR OR ADJACENT TO ANY OVERHEAD WIRE PER AMTRAK SPEC 16064.

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PE STAMP & APPROVAL

AS-BUILTS

ORIGINAL:	
REVISED:	

SCALE

B SIZE DWG: NOT TO SCALE
 D SIZE DWG: NOT TO SCALE

SHEET: 04 OF 33

GENERAL NOTES

LEVEL 3 PROJECT MANAGER:
DAN COMPITELLO
ENGINEERING FIRM:
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N.944888
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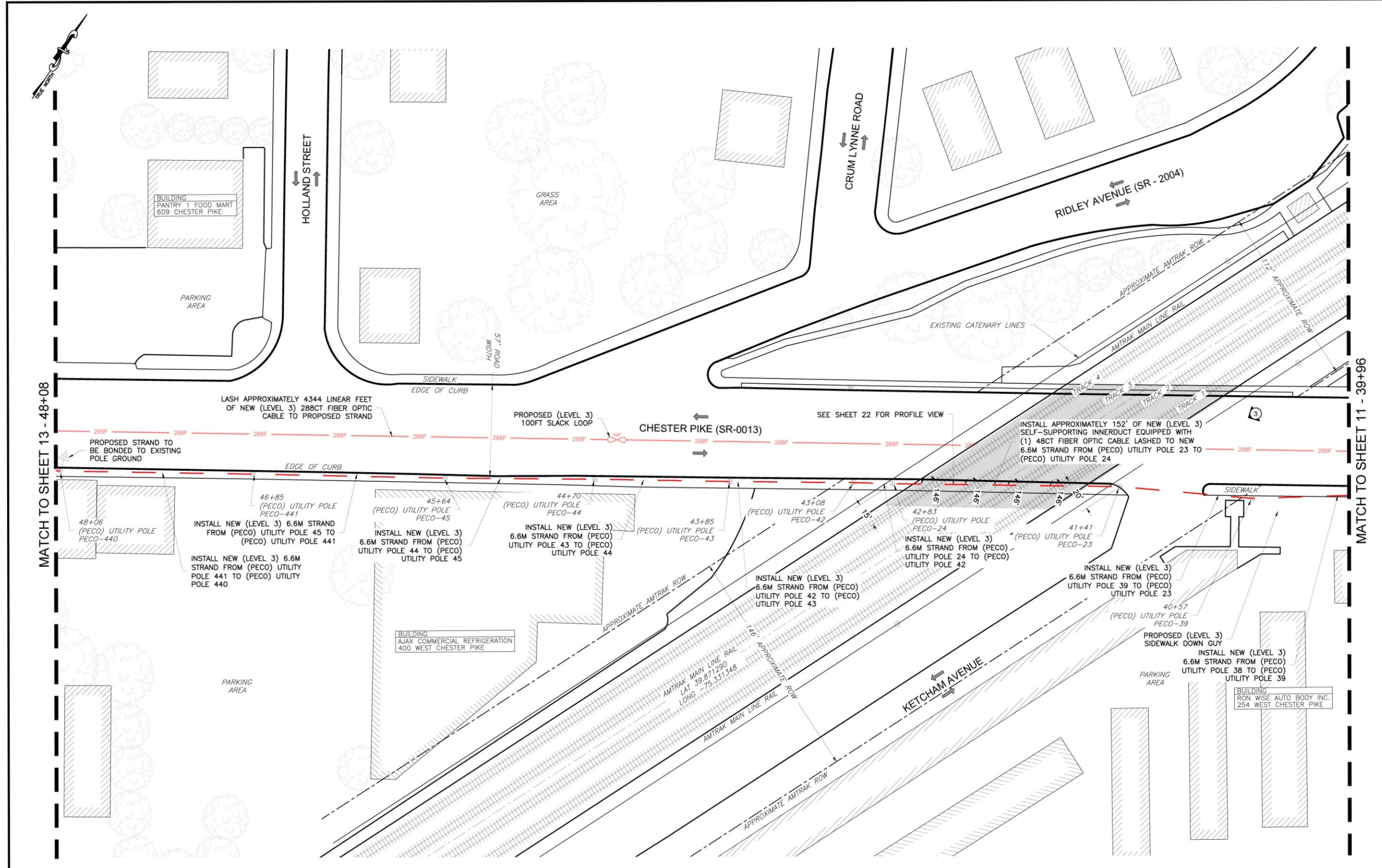
SCALE

B SIZE DWG: 1" = 60'

D SIZE DWG: 1" = 30'

SHEET: 12 OF 33

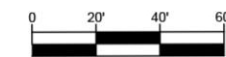
PROJECT SHEET OSP



OSP UTILITY PLAN

NOTES:

1. RIGHT-OF-WAY AND PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
2. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
3. METHOD OF CONDUIT INSTALLATION IS AT THE DISCRETION OF THE LEVEL 3 CONTRACTOR.
4. ALL EXISTING UNDERGROUND UTILITIES ARE CONSIDERED TO BE APPROXIMATE AND MAY BE INCOMPLETE, LEVEL 3 CONTRACTOR MUST FIELD VERIFY PRIOR TO CONSTRUCTION.



SCALE: 1" = 60'
PRINTER SETTINGS MAY AFFECT SCALE

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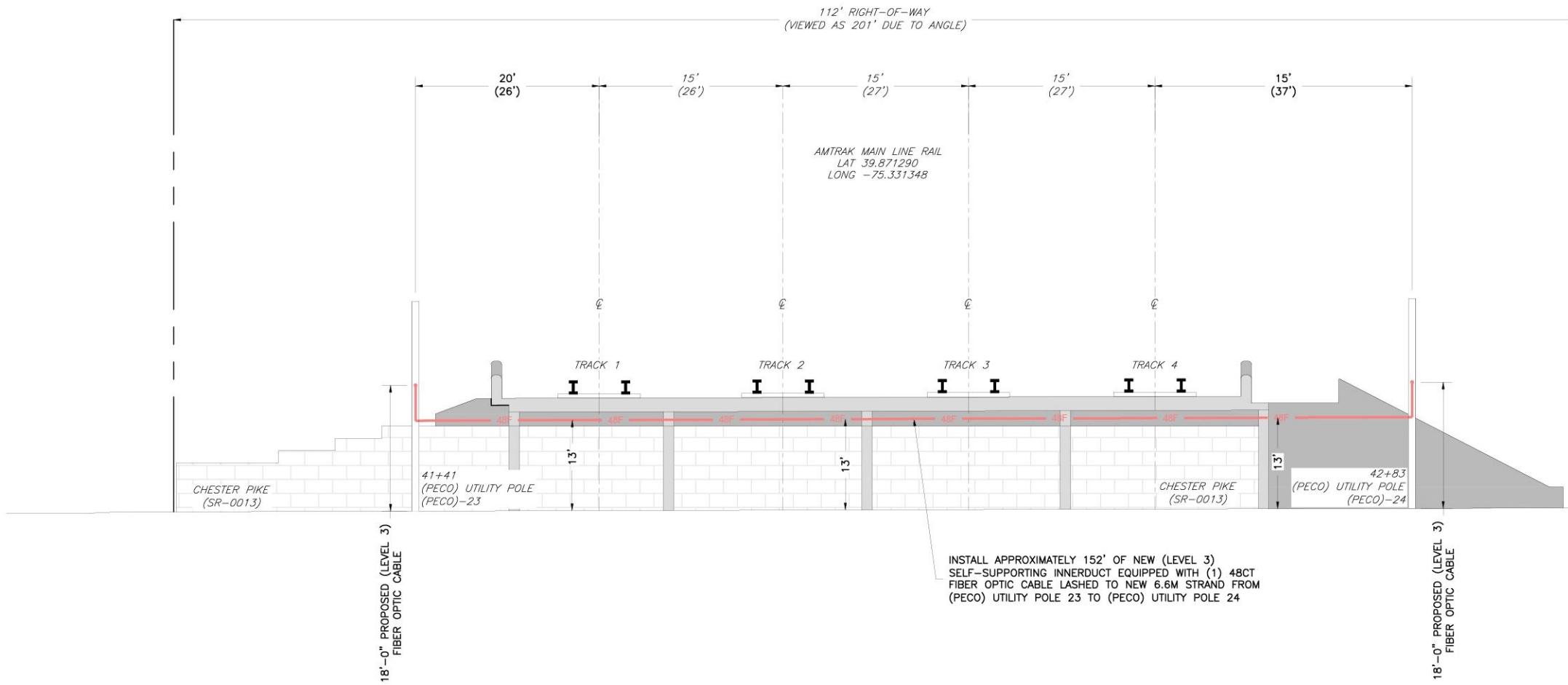
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REVISED:	

SCALE

B SIZE DWG: 1" = 20'
D SIZE DWG: 1" = 10'

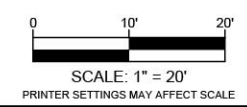
SHEET: 22 OF 33

PROFILE SHEET



**AMTRAK RAILROAD AERIAL CROSSING PROFILE VIEW
FACING SOUTH EAST**

DROP DOWN ±5'V FROM (PECO) UTILITY POLE 23 (STA. 41+41) AND SWEEP UNDER BRIDGE SUPERSTRUCTURE.
INSTALL APPROXIMATELY 152' OF NEW (LEVEL 3) SELF-SUPPORTING INNERDUCT EQUIPPED WITH (1) 48CT FIBER OPTIC CABLE LASHED TO 6.6M STRAND FROM (PECO) UTILITY POLE 23 TO (PECO) UTILITY POLE 24.
MAINTAIN 12" MINIMUM VERTICAL CLEARANCE FROM BRIDGE SUPERSTRUCTURE.
RISE UP ±5'V TO ATTACHMENT LOCATION ON (PECO) UTILITY POLE 24 (STA. 42+83)



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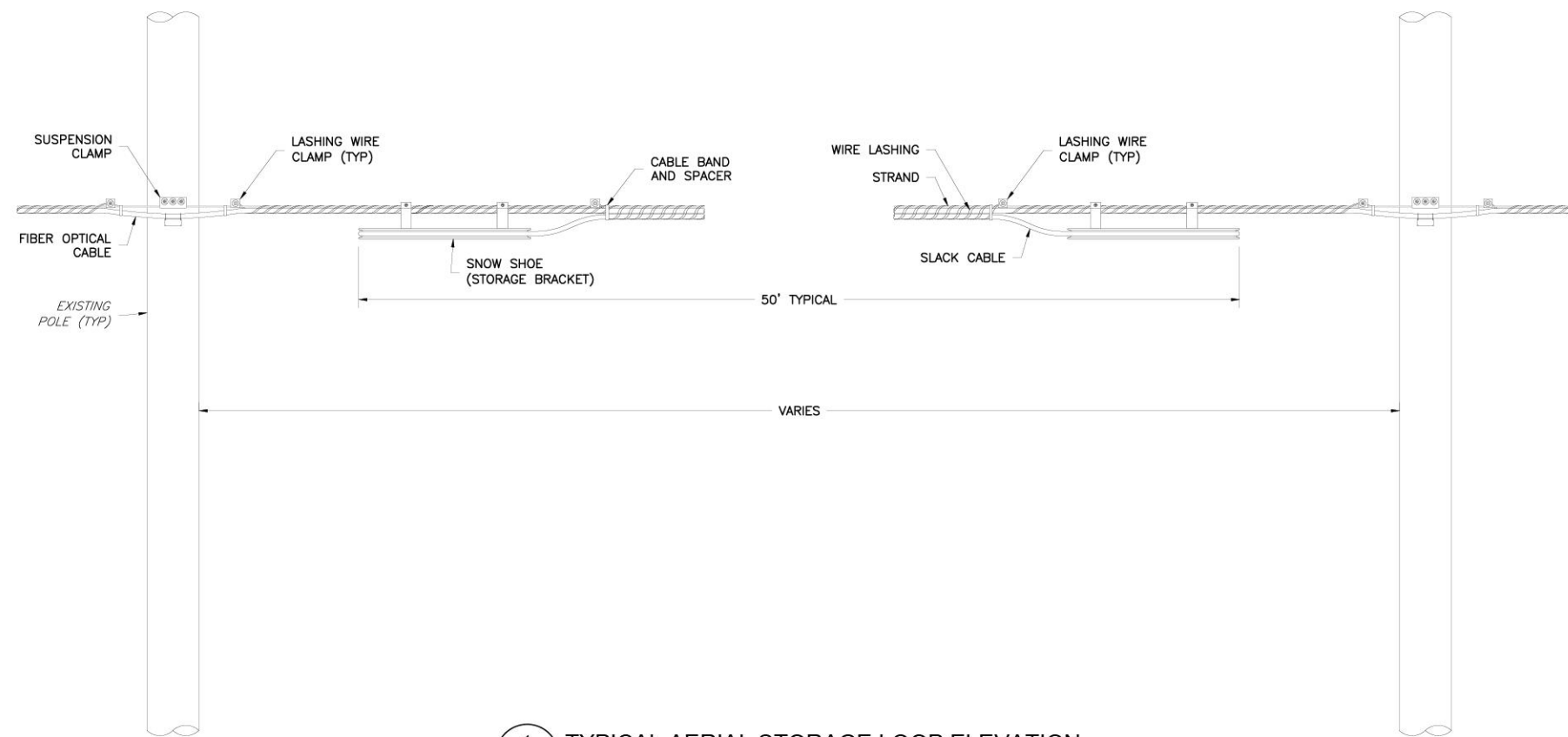
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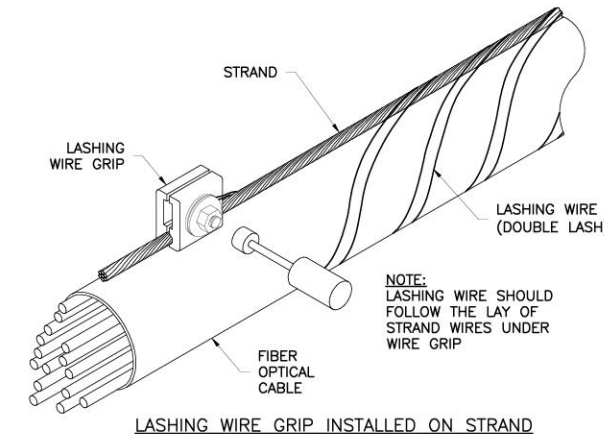
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SHEET: 27 OF 33

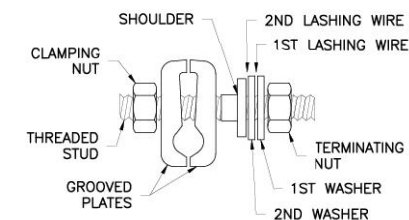
TYPICAL AERIAL DETAILS



1 TYPICAL AERIAL STORAGE LOOP ELEVATION
NOT TO SCALE

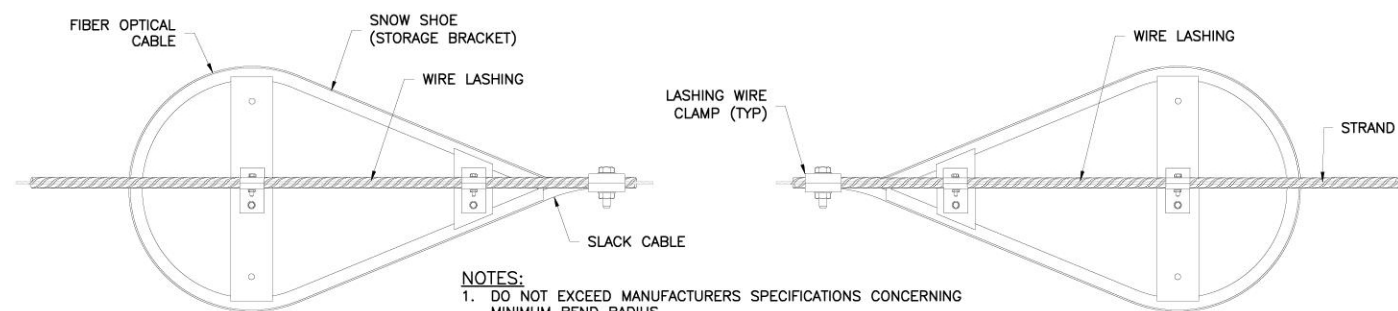


LASHING WIRE GRIP INSTALLED ON STRAND



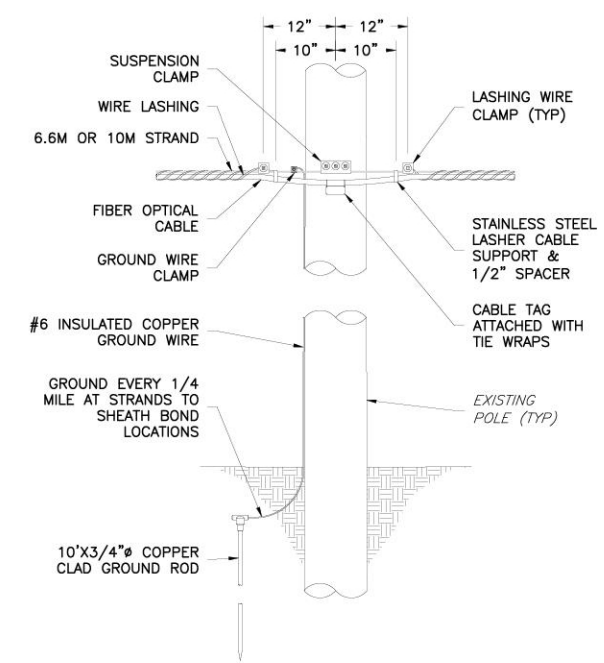
CABLE LASHING CLAMP

2 CABLE LASHING GRIP DETAIL
NOT TO SCALE



NOTES:
1. DO NOT EXCEED MANUFACTURERS SPECIFICATIONS CONCERNING MINIMUM BEND RADIUS.
2. THE MINIMUM BEND RADIUS OF FIBER OPTICAL CABLE UNDER TENSION WILL NOT EXCEED 20 TIMES THE CABLE DIAMETER.

3 TYPICAL AERIAL STORAGE LOOP PLAN
NOT TO SCALE



4 TYPICAL AERIAL FIBER ATTACHMENT
NOT TO SCALE