

REVISIONS:
1. JULY 19, 2012 BID ISSUE

NOTES:
1. SUBSURFACE UTILITY LINES, AS SHOWN HEREON, WERE COMPILED ACCORDING TO AVAILABLE RECORD INFORMATION FROM THE REFERENCED COMPANIES AND PUBLIC AGENCIES, AND THEIR LOCATIONS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. SIENA ENGINEERING GROUP ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.



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PREPARED FOR RECORD

APPROVED FOR OUTSIDE PLANT _____ ENGINEER _____ DATE _____



PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS
SPECIFICATION WR-34105
PROJECT NUMBER 8613972

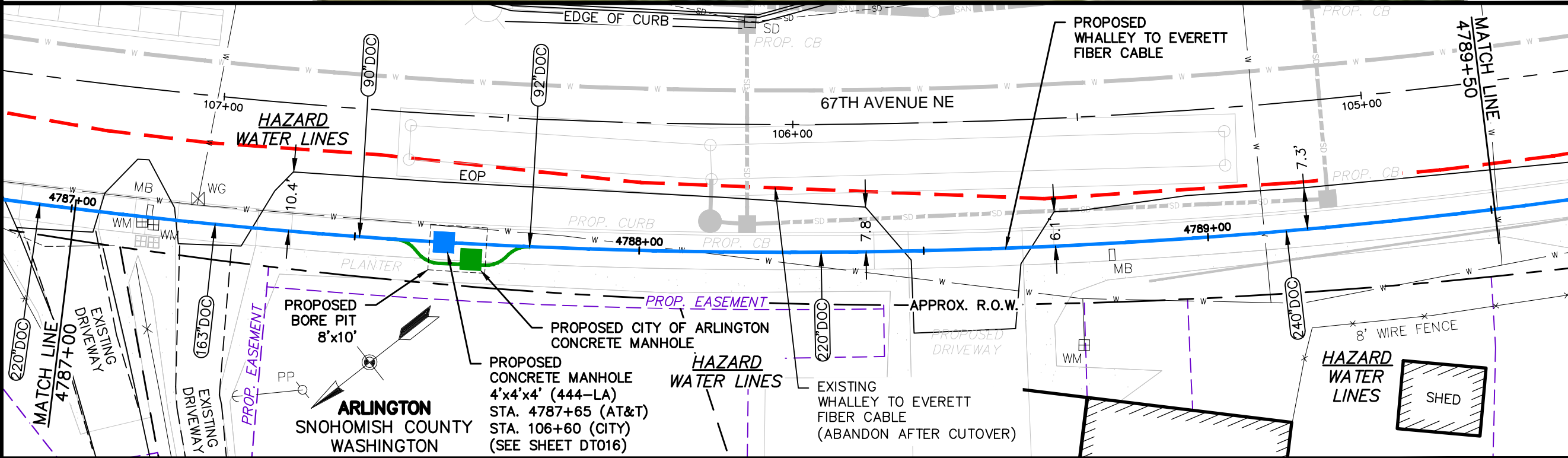
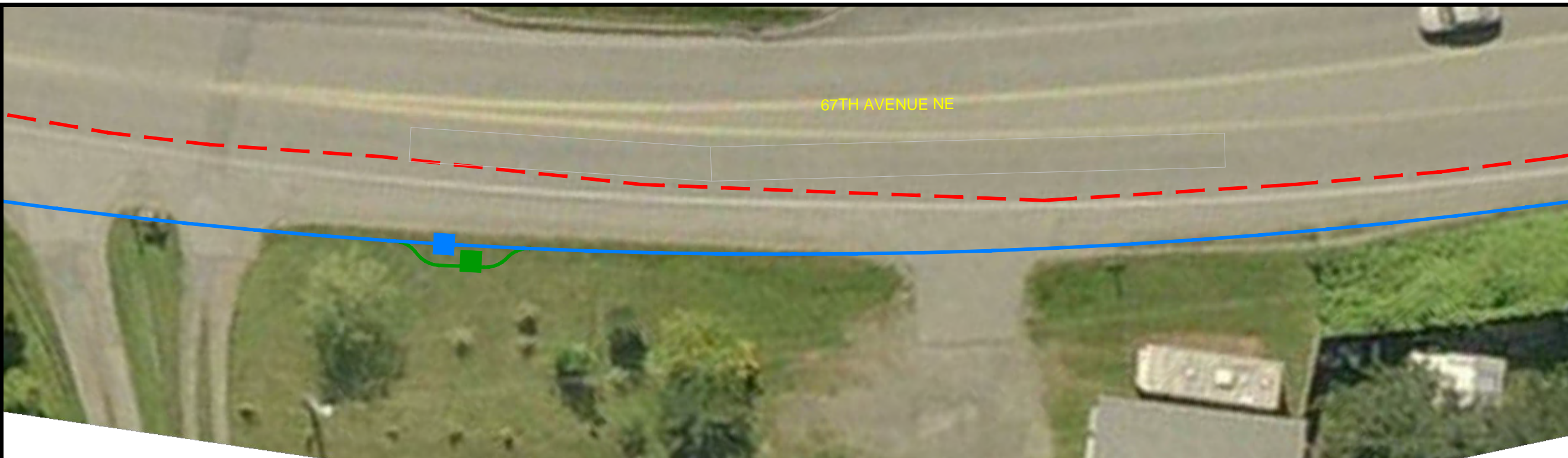
OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: 1" = 20'

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

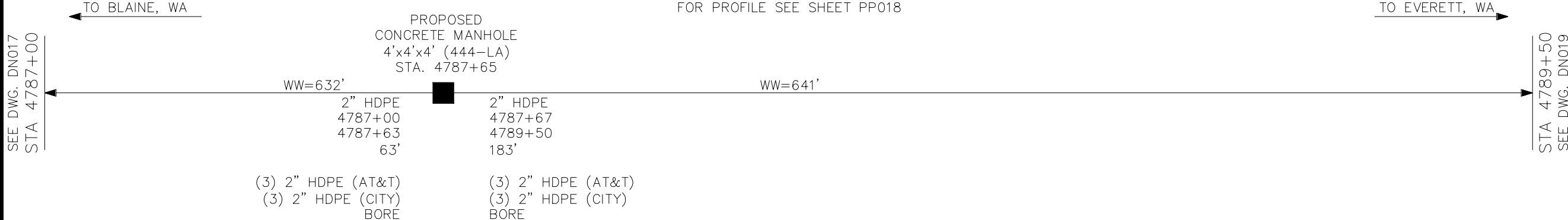
CABLE RELOCATION
PLAN

DN018



R/W WIDTH PERMITS ← CITY OF ARLINGTON PERMIT # N/A → R/W WIDTH PERMITS

TRENCH DETAILS BORE ← TO BLAINE, WA → FOR PROFILE SEE SHEET PP018 → TO EVERETT, WA → BORE TRENCH DETAILS



SIENA ENGINEERING GROUP, INC.
12-70600 67th Avenue Bid Issue.dwg
Edited: July 19, 2012 - 8:41 AM
Plotted: July 19, 2012 - 8:56 AM by Joseph Connor - Siema.ctb

SEE DWG. DN017
STA 4787+00

STA 4789+50
SEE DWG. DN019

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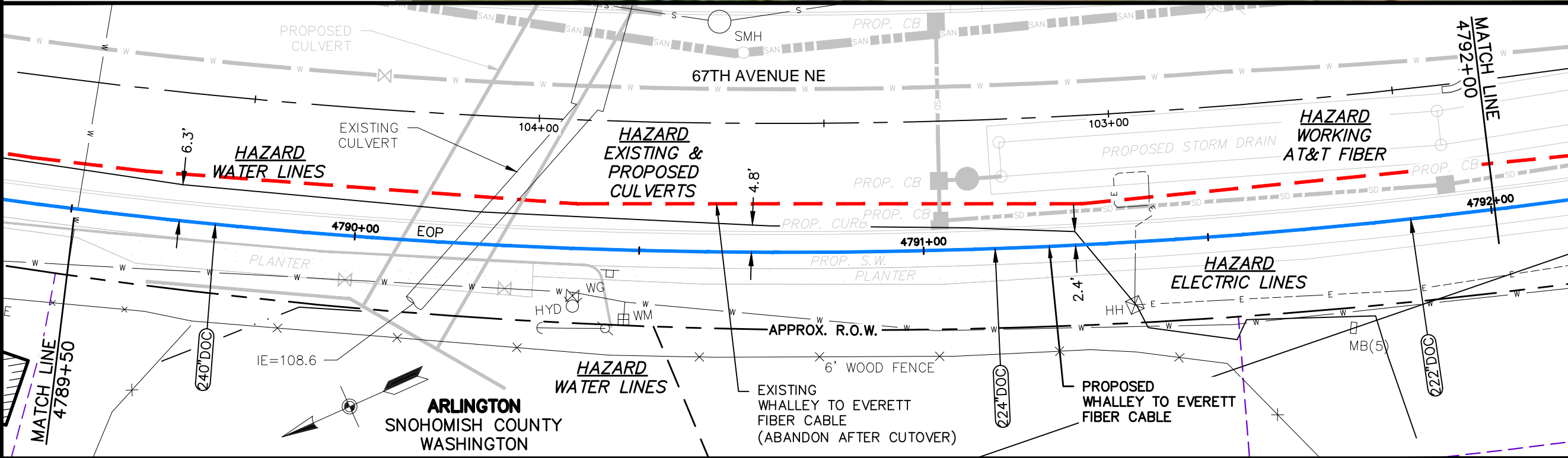
PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS
SPECIFICATION WR-34105
PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010
SCALE: 1" = 20'

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

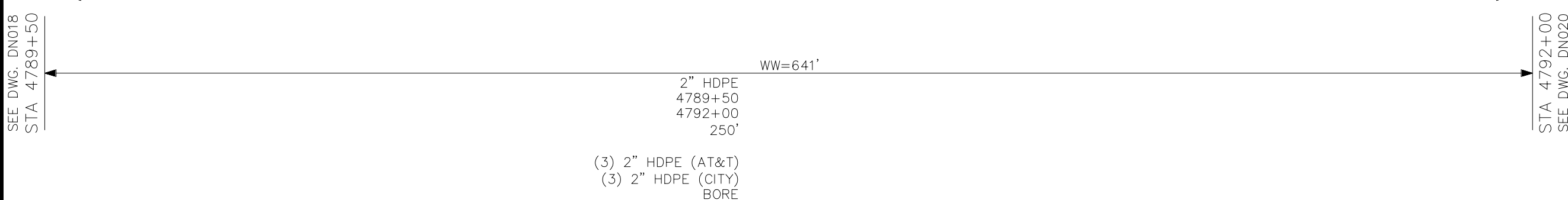
CABLE RELOCATION
PLAN

DN019



R/W WIDTH PERMITS CITY OF ARLINGTON PERMIT # N/A DEPARTMENT OF FISHERIES HPA NO. 47064-01 STA. 4790+23 CITY OF ARLINGTON PERMIT # N/A R/W WIDTH PERMITS

TRENCH DETAILS BORE TO BLAINE, WA FOR PROFILE SEE SHEET PP019 TO EVERETT, WA



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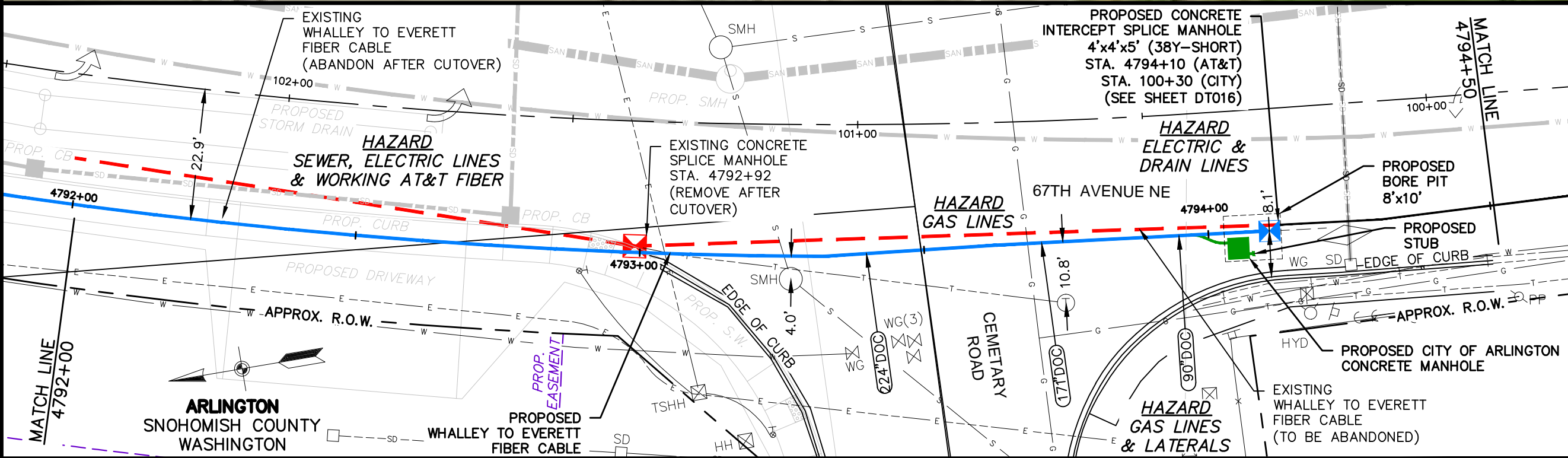
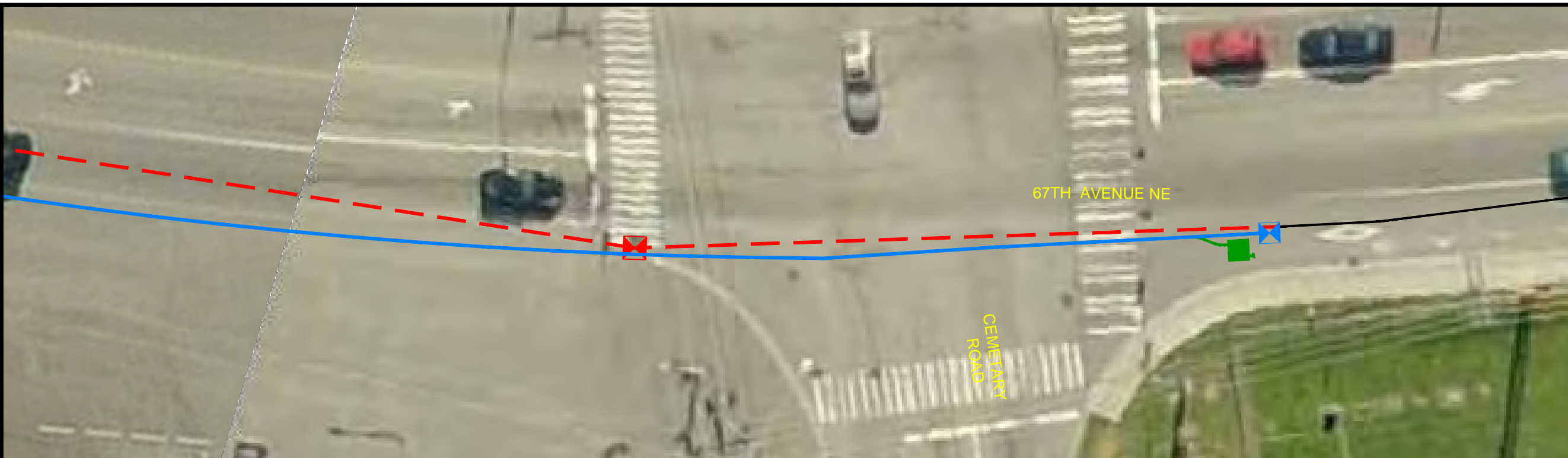
PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS
SPECIFICATION WR-34105
PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWAW0010
SCALE: 1" = 20'

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

CABLE RELOCATION
PLAN

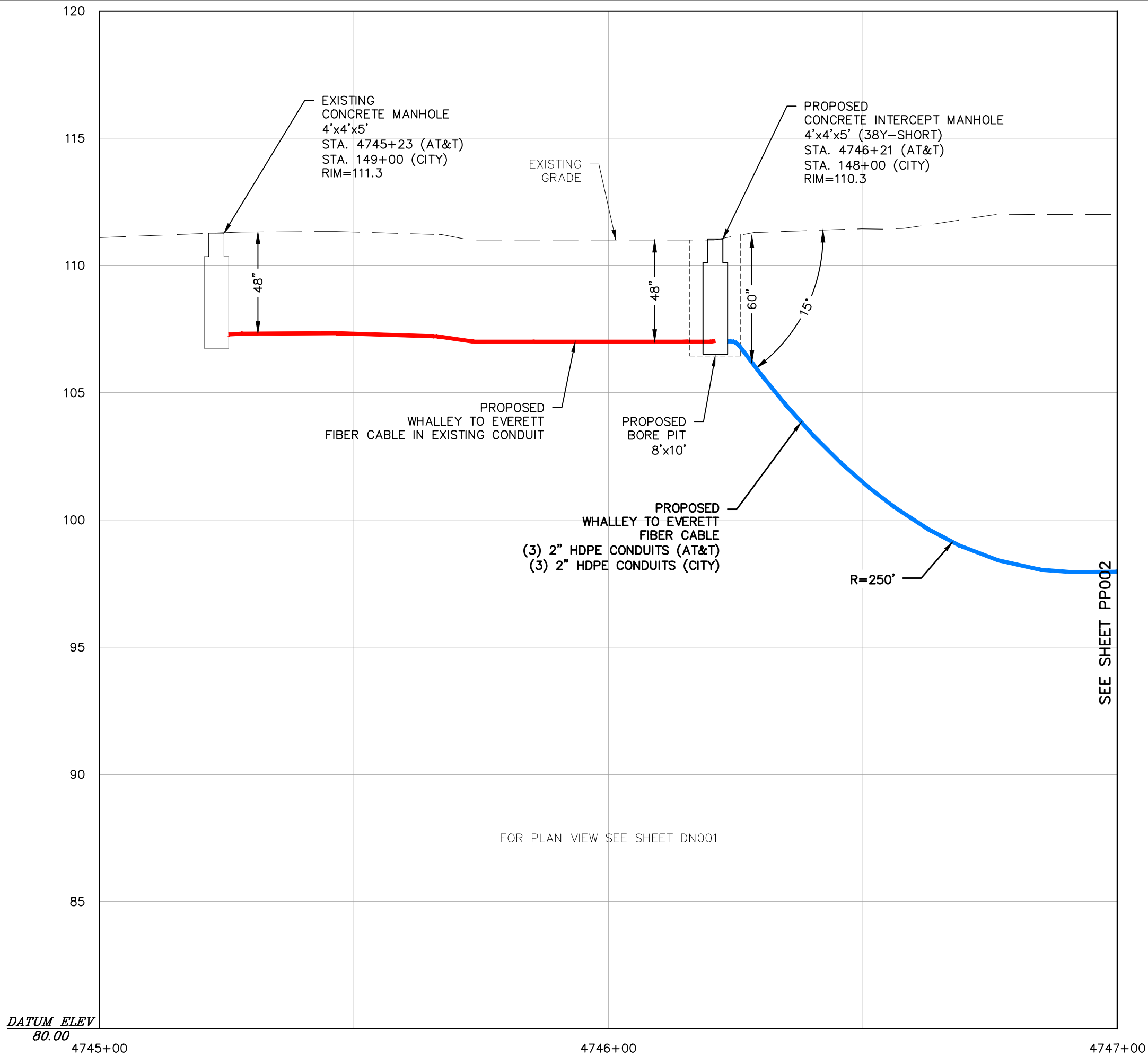
DN020



TRENCH DETAILS BORE	BORE	EXISTING	EXISTING TRENCH DETAILS
TO BLAINE, WA	FOR PROFILE SEE SHEET PP020		
SEE DWG. DN019 STA 4792+00	PROPOSED CONCRETE INTERCEPT SPLICE MANHOLE 4'x4'x5' (38Y-SHORT) STA. 4794+10		TO EVERETT, WA
	2" HDPE 4792+00 4794+08 208'	EXISTING 4794+12 4794+50 38'	WW=1,712'
	(3) 2" HDPE (AT&T) (3) 2" HDPE (CITY) BORE	(1) 4" PVC (3) 1" INNERDUCTS EXISTING	

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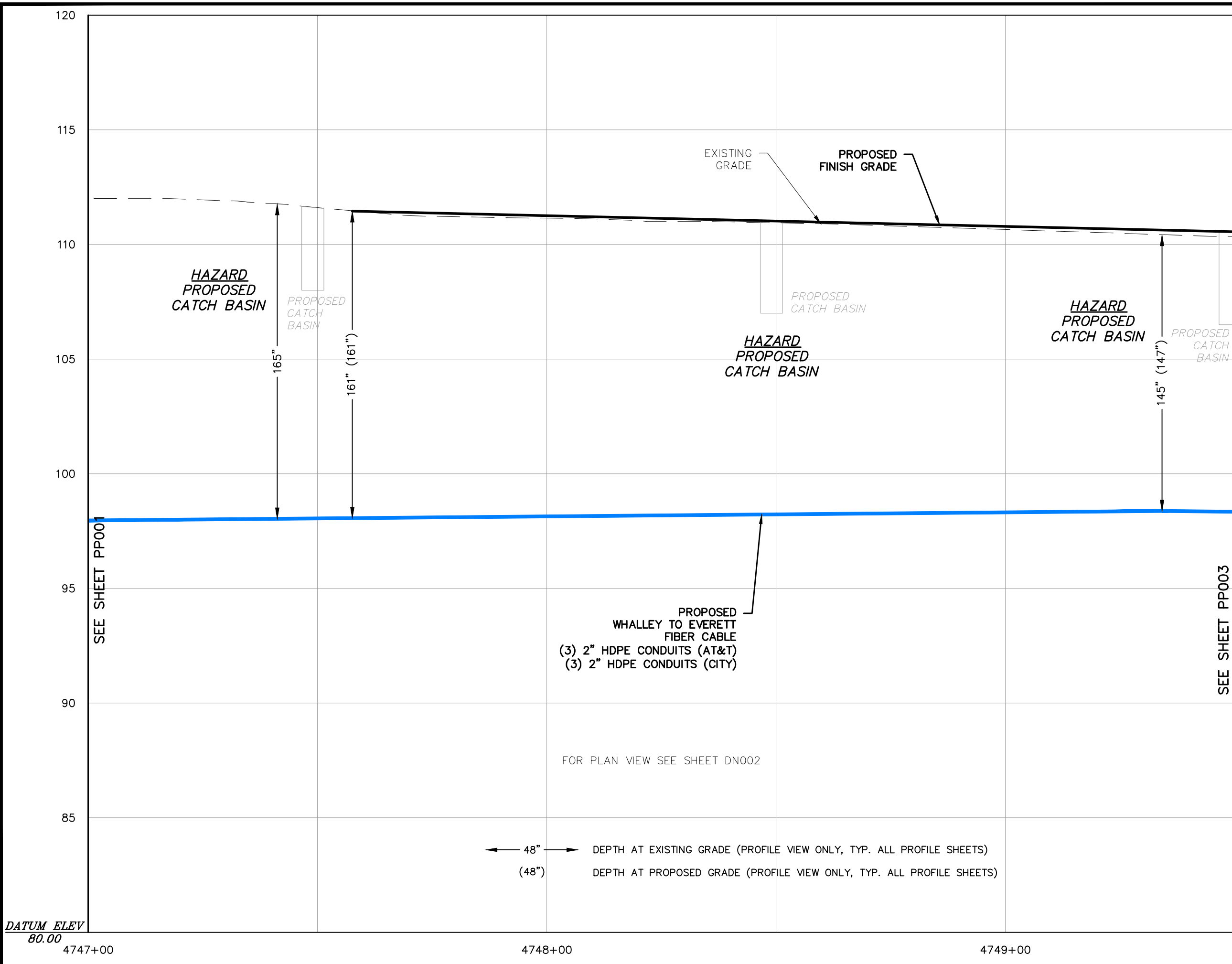
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4745+23 TO 4747+75

PP001

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 12-70600 67th Avenue Bid Issue.dwg
 Edited: July 19, 2012 - 8:41 AM
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DATUM ELEV
 80.00

4747+00

4748+00

4749+00

← 48" → DEPTH AT EXISTING GRADE (PROFILE VIEW ONLY, TYP. ALL PROFILE SHEETS)
 (48") DEPTH AT PROPOSED GRADE (PROFILE VIEW ONLY, TYP. ALL PROFILE SHEETS)

FOR PLAN VIEW SEE SHEET DN002

SEE SHEET PP001

SEE SHEET PP003

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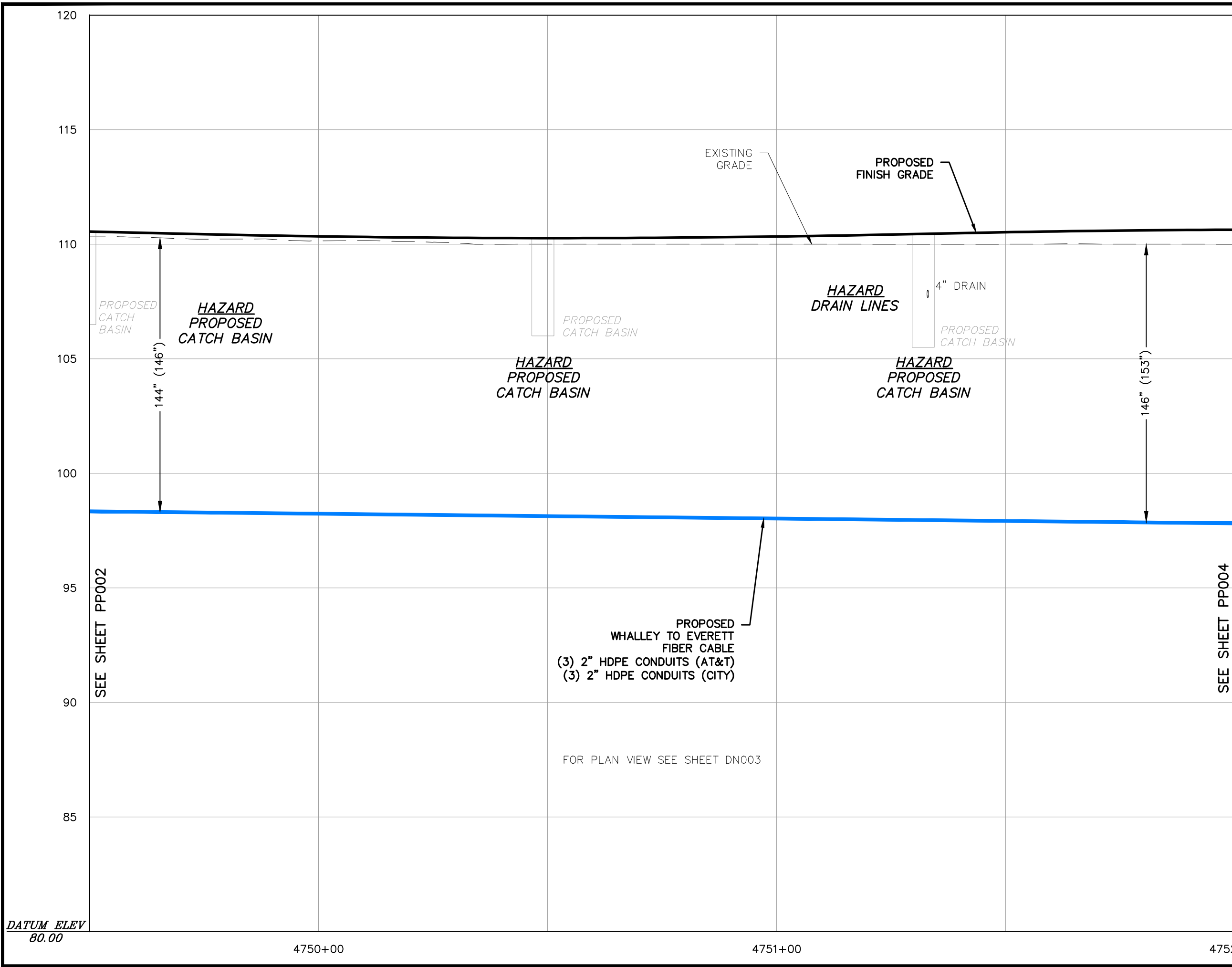
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP002

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 SPECIFICATION WR-34105
 PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
 LINE CODE:
 CABLE CLLI: BLANWU0010

SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP003

DATUM ELEV
 80.00

4750+00

4751+00

4752+00

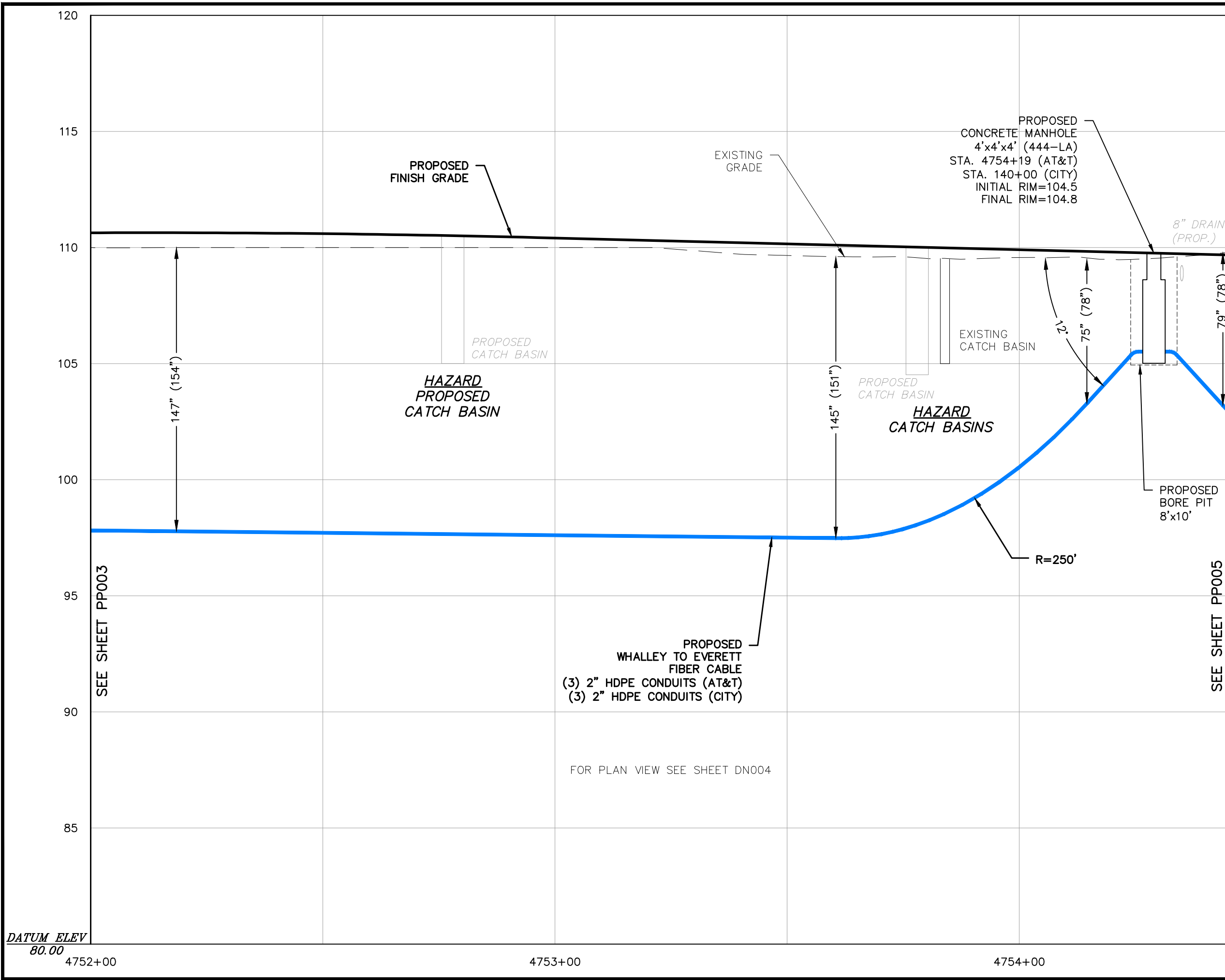
SEE SHEET PP002

SEE SHEET PP004

PROPOSED
 WHALLEY TO EVERETT
 FIBER CABLE
 (3) 2" HDPE CONDUITS (AT&T)
 (3) 2" HDPE CONDUITS (CITY)

FOR PLAN VIEW SEE SHEET DN003

SIENA ENGINEERING GROUP, INC.
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DATUM ELEV
 80.00

4752+00

4753+00

4754+00

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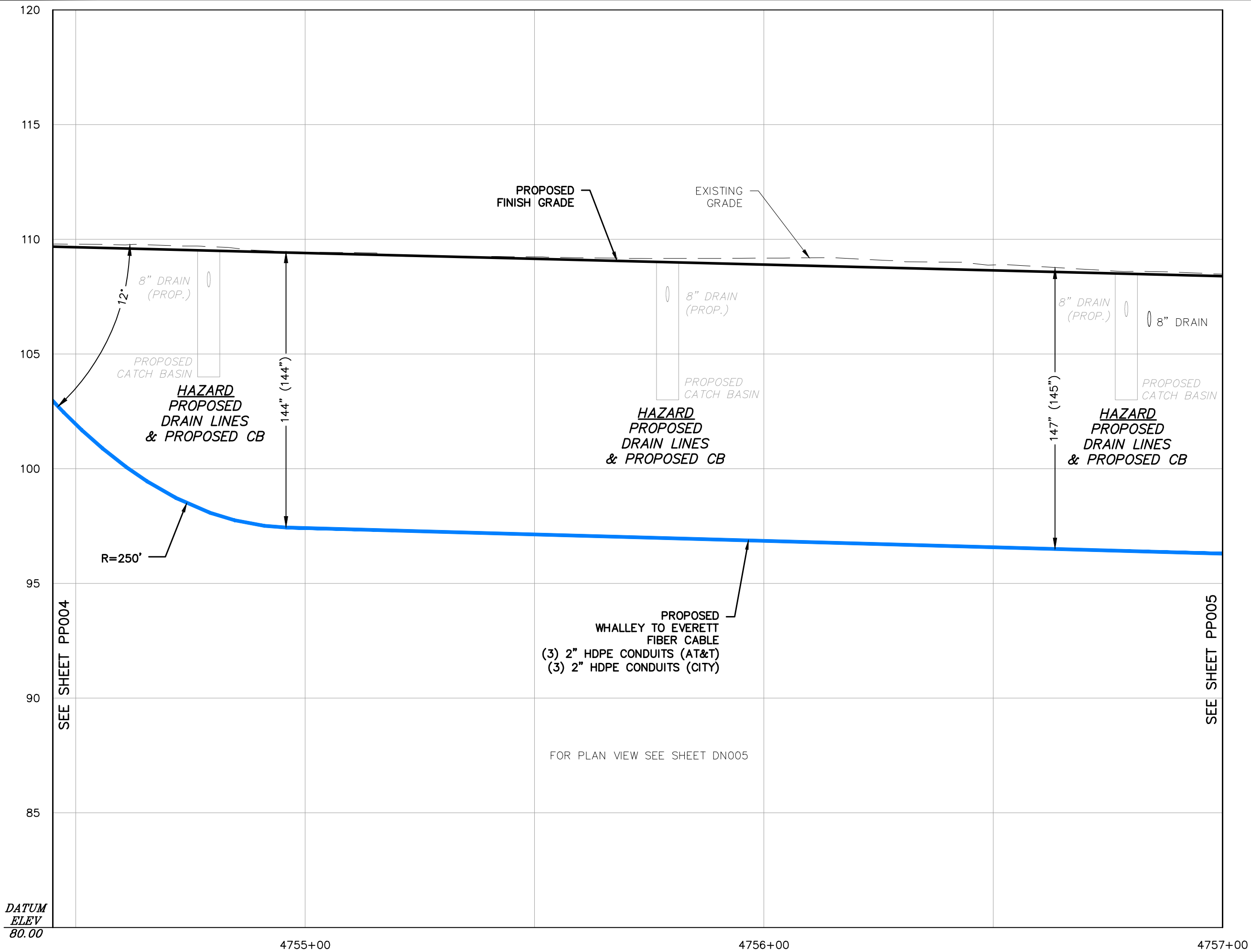
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP004

SIENA ENGINEERING GROUP, INC.
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 Edited: July 19, 2012 - 8:41 AM
 Plotted: July 19, 2012 - 8:58 AM by Joseph Connor - _Siema.ctb



DATUM
 ELEV
 80.00

4755+00

4756+00

4757+00

SEE SHEET PP004

SEE SHEET PP005

PROPOSED
 WHALLEY TO EVERETT
 FIBER CABLE
 (3) 2" HDPE CONDUITS (AT&T)
 (3) 2" HDPE CONDUITS (CITY)

FOR PLAN VIEW SEE SHEET DN005

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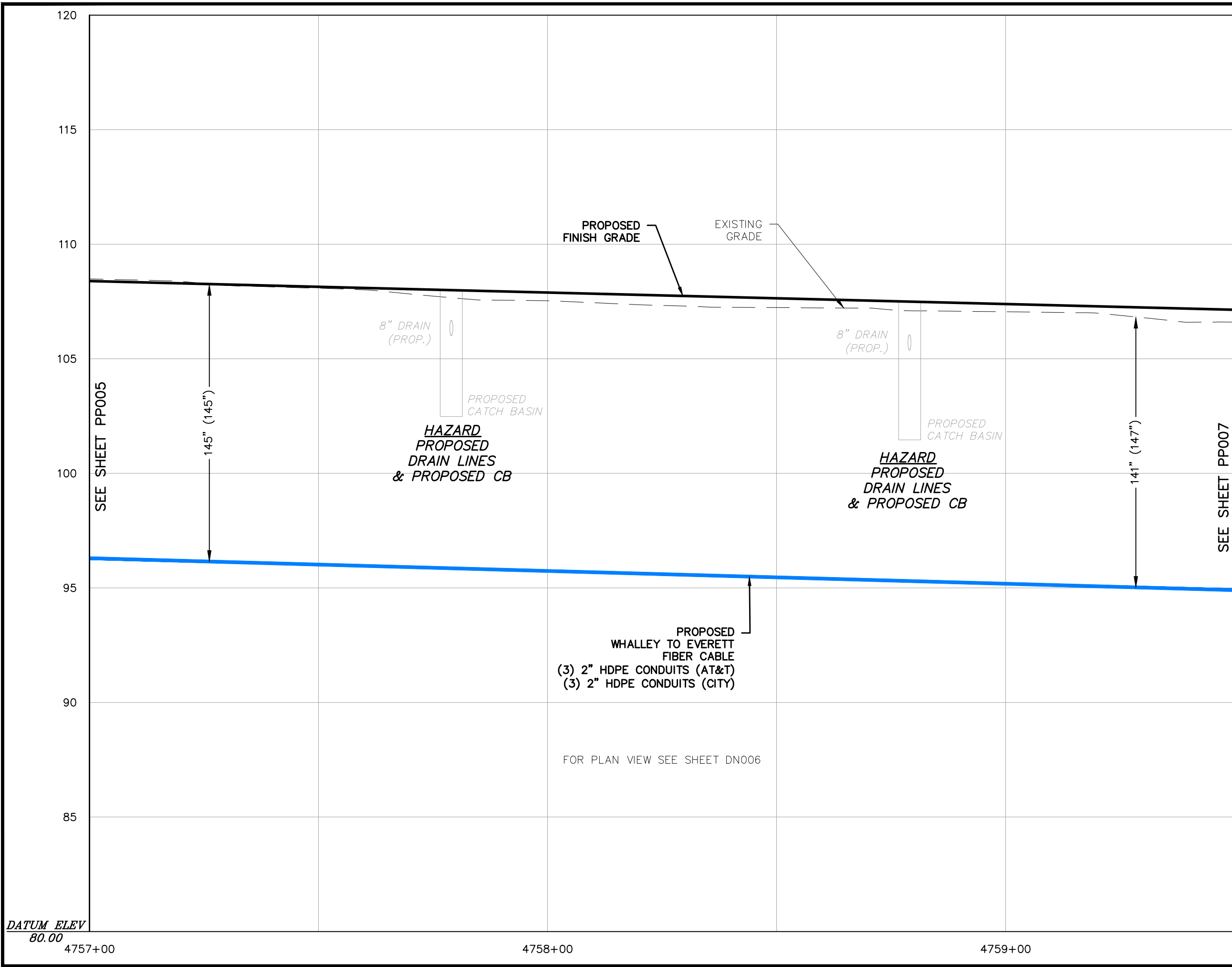
SCALE: 1" = 20'
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67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP005

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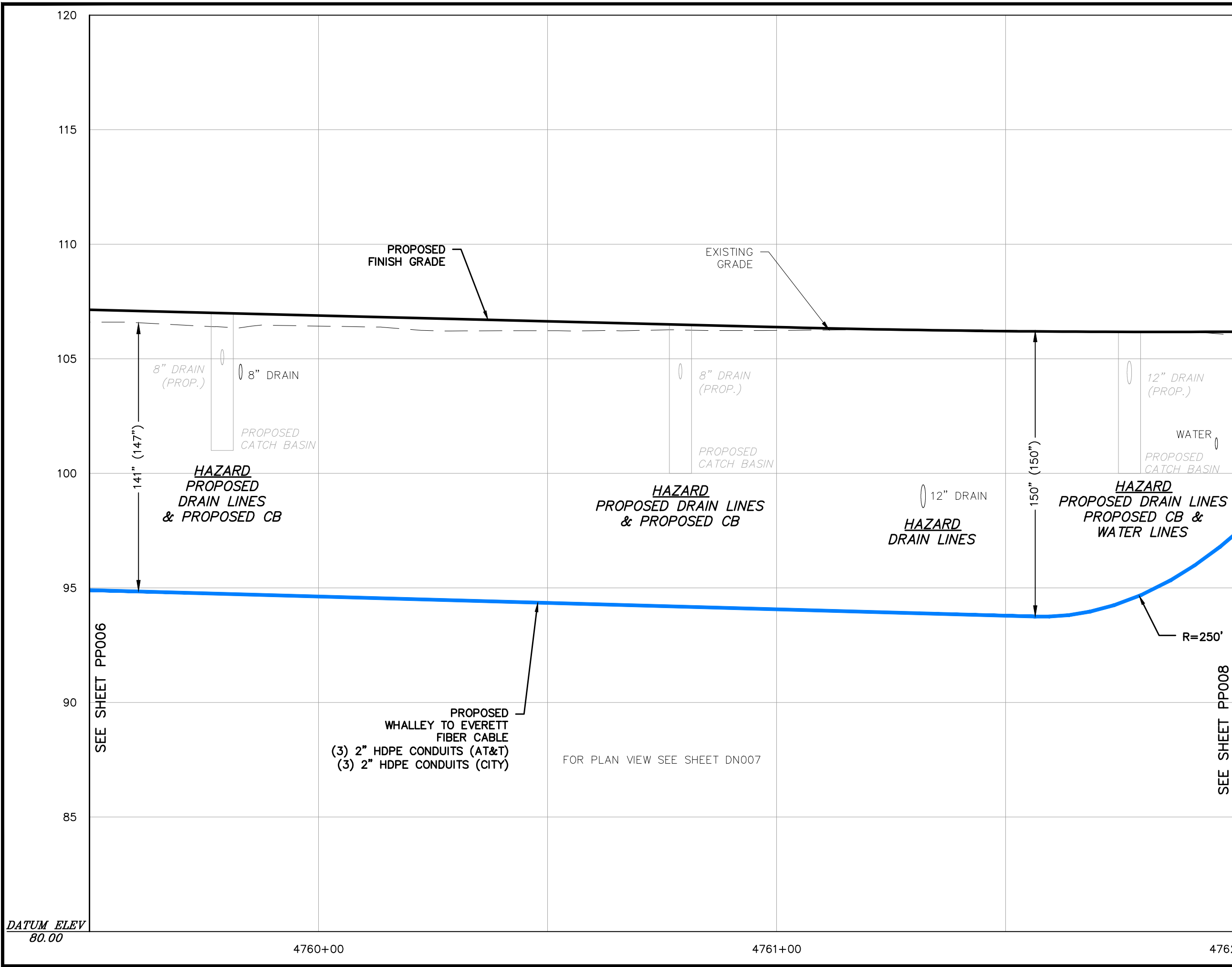
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP006

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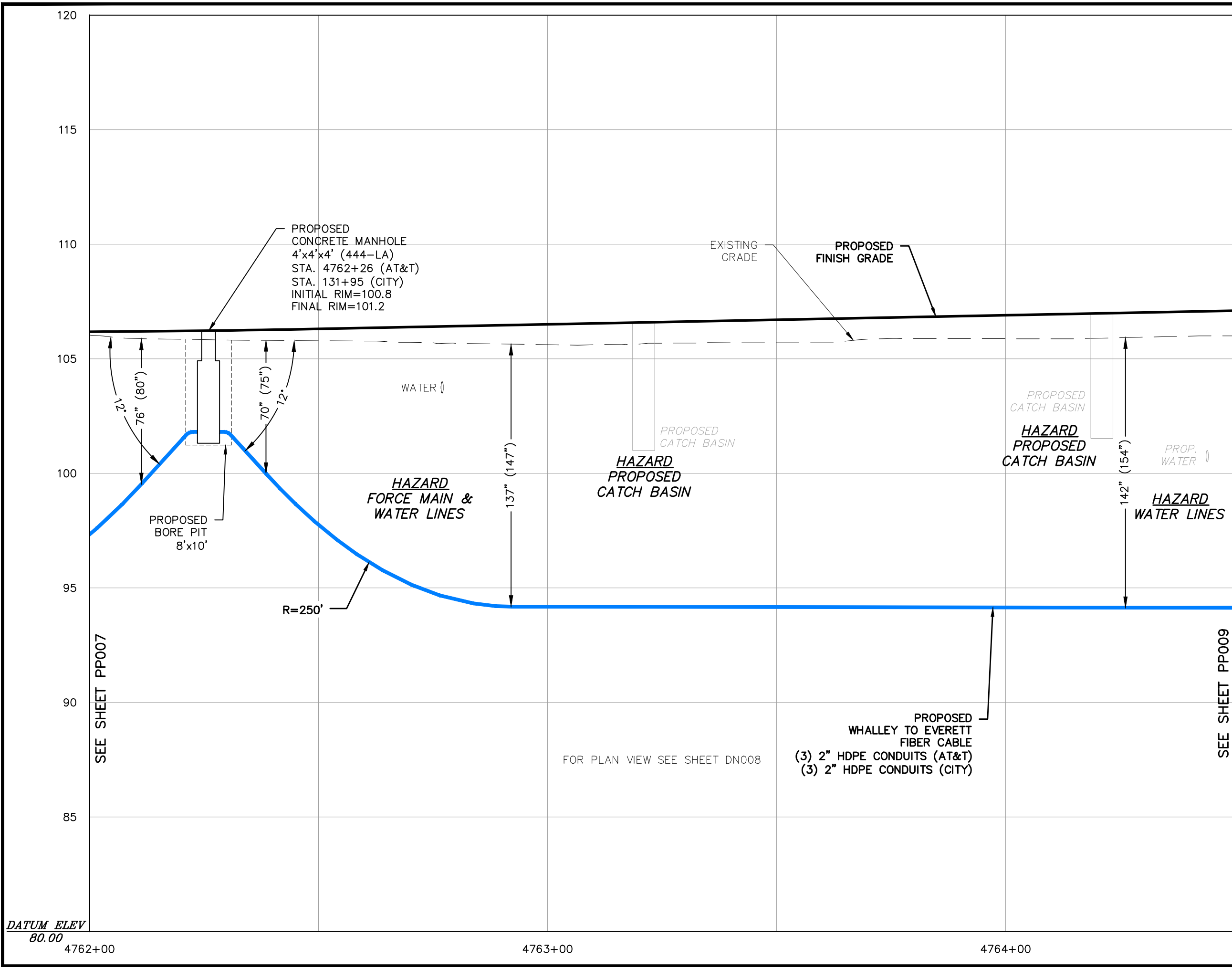
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP007

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PREPARED FOR RECORD

APPROVED FOR OUTSIDE PLANT	ENGINEER	DATE
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PROPRIETARY
 USE PURSUANT TO COMPANY INSTRUCTIONS
 SPECIFICATION WR-34105
 PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
 LINE CODE:
 CABLE CLLI: BLANWU0010

SCALE: 1" = 20'
 1" = 4'

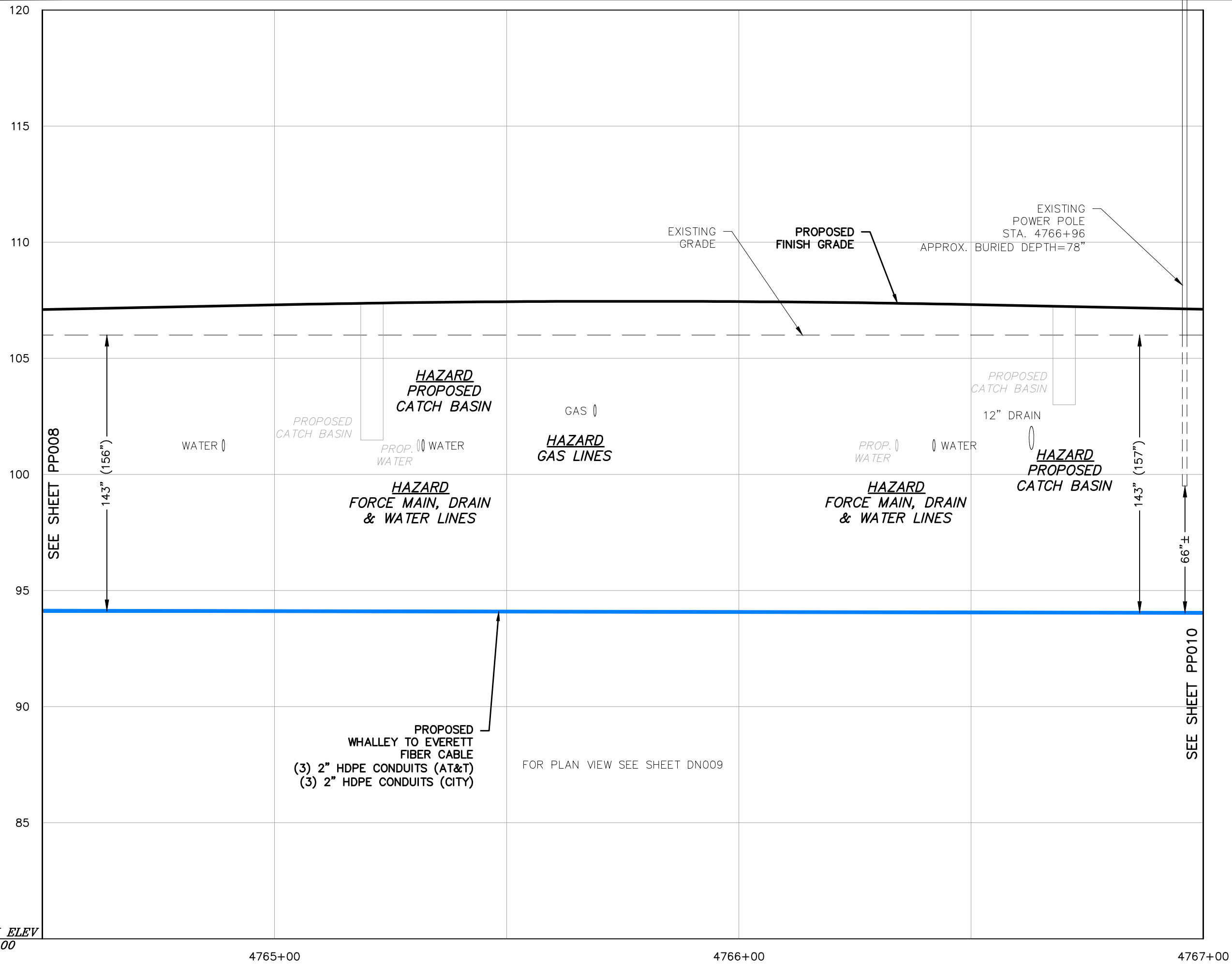
67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP008

SIENA ENGINEERING GROUP, INC.
 12-70600 67th Avenue Bid Issue.dwg
 Edited: July 19, 2012 - 8:41 AM
 Plotted: July 19, 2012 - 8:59 AM by Joseph Connor - _Siema.ctb

DATUM ELEV
 80.00



REVISIONS:
 1. JULY 19, 2012 BID ISSUE

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PROPRIETARY
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 PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
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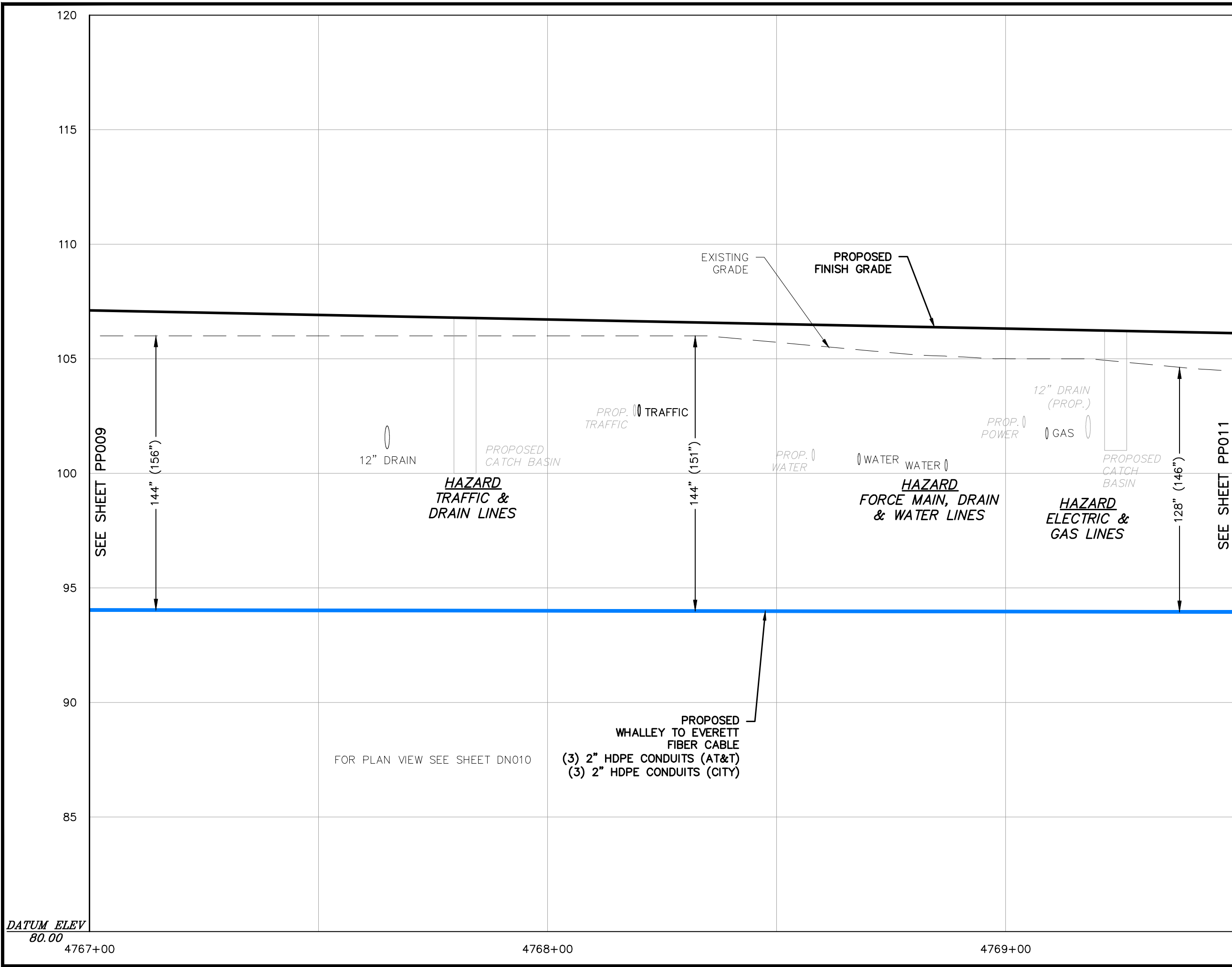
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 TO 4750+25

PP009

SIENA ENGINEERING GROUP, INC.
 12-70600 67th Avenue Bid Issue.dwg
 Edited: July 19, 2012 - 8:41 AM
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REVISIONS:
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 SPECIFICATION WR-34105
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OWNERSHIP: 100% ISD
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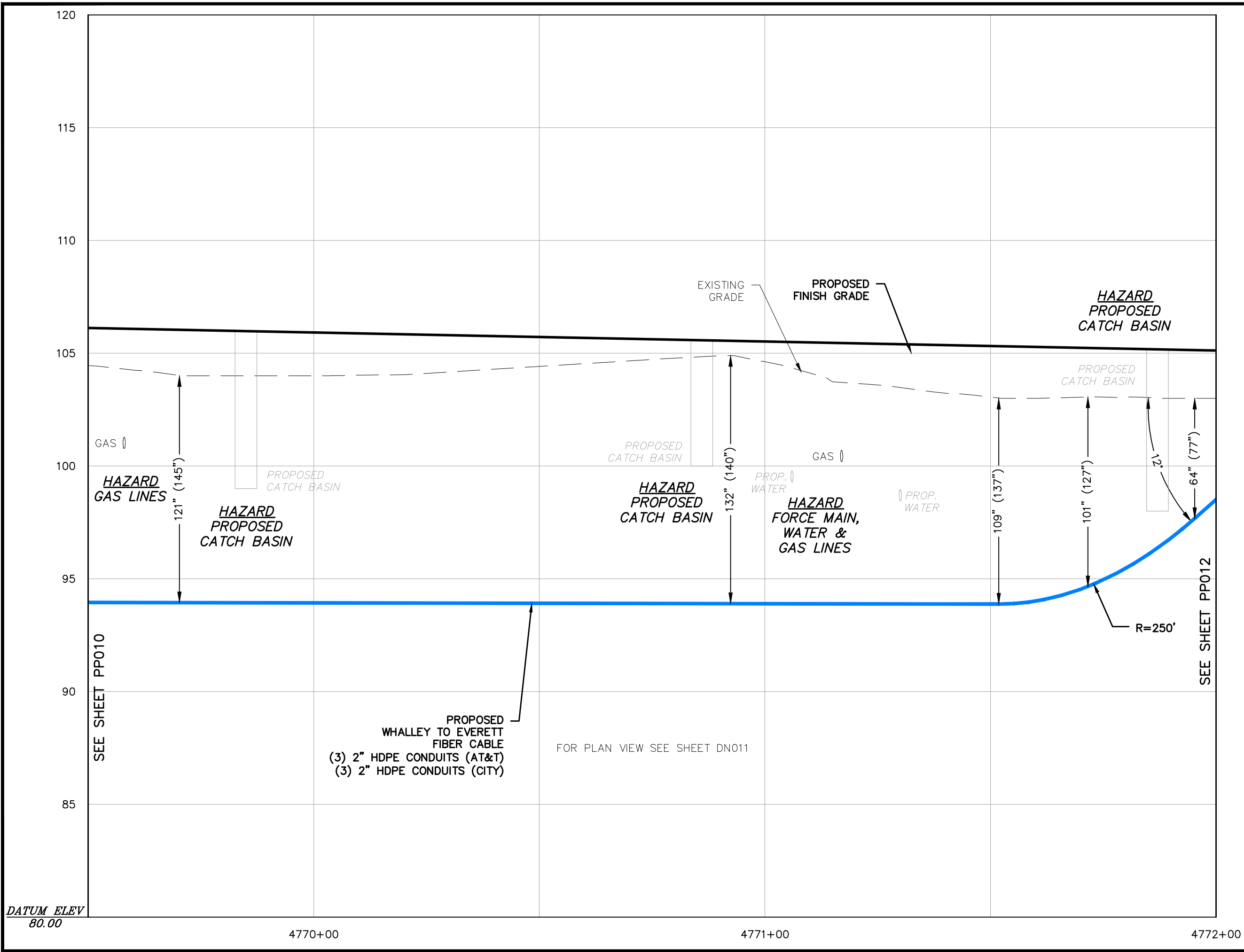
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP010

SIENA ENGINEERING GROUP, INC.
 12-70600 67th Avenue Bid Issue.dwg
 Edited: July 19, 2012 - 8:41 AM
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DATUM ELEV
80.00

4770+00

4771+00

4772+00

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 CABLE CLLI: BLANWAW0010

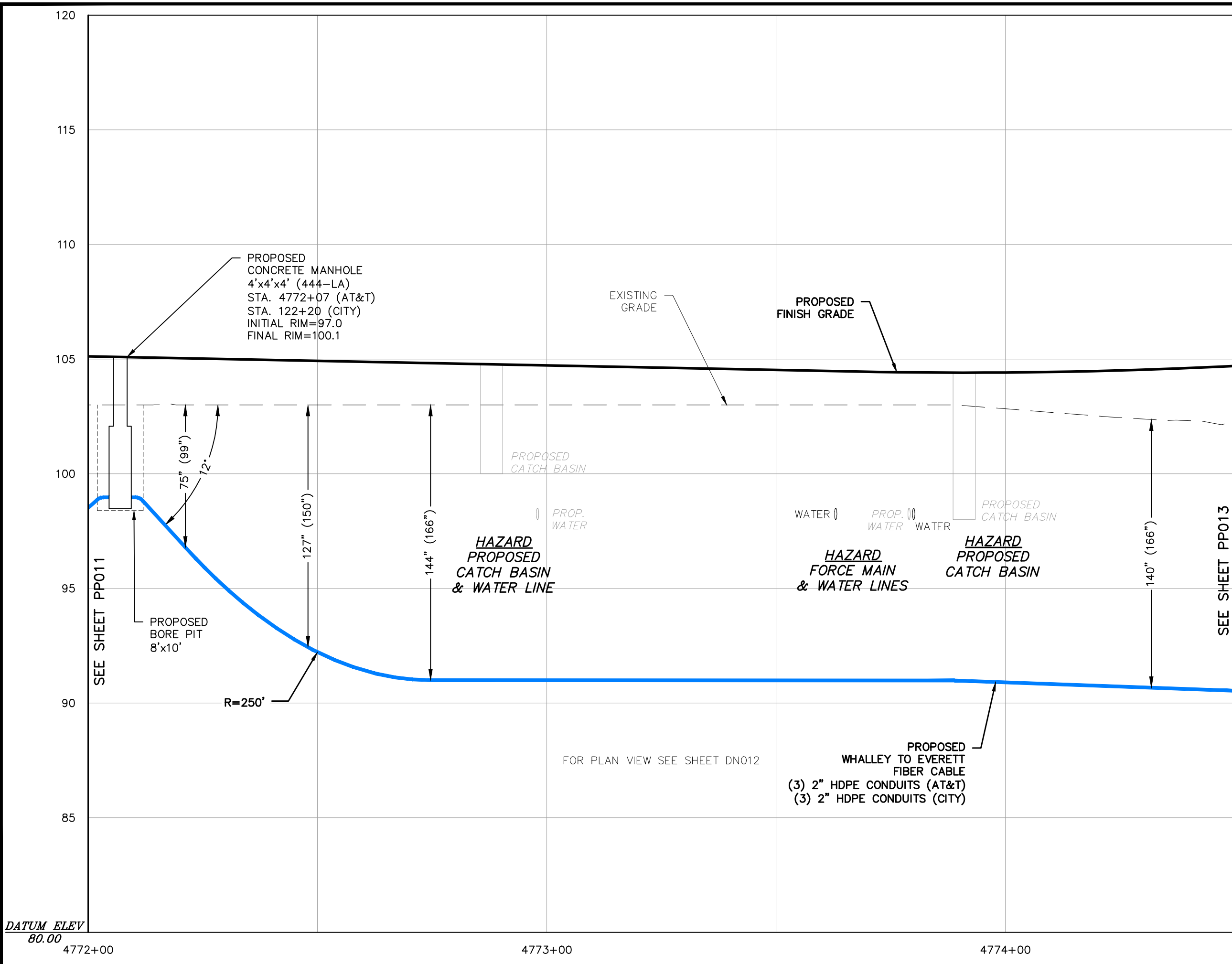
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP011

SIENA ENGINEERING GROUP, INC.
 12-70600 67th Avenue Bid Issue.dwg
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 80.00

4772+00

4773+00

4774+00

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OWNERSHIP: 100% ISD
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 CABLE CLLI: BLANWU0010

SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP012

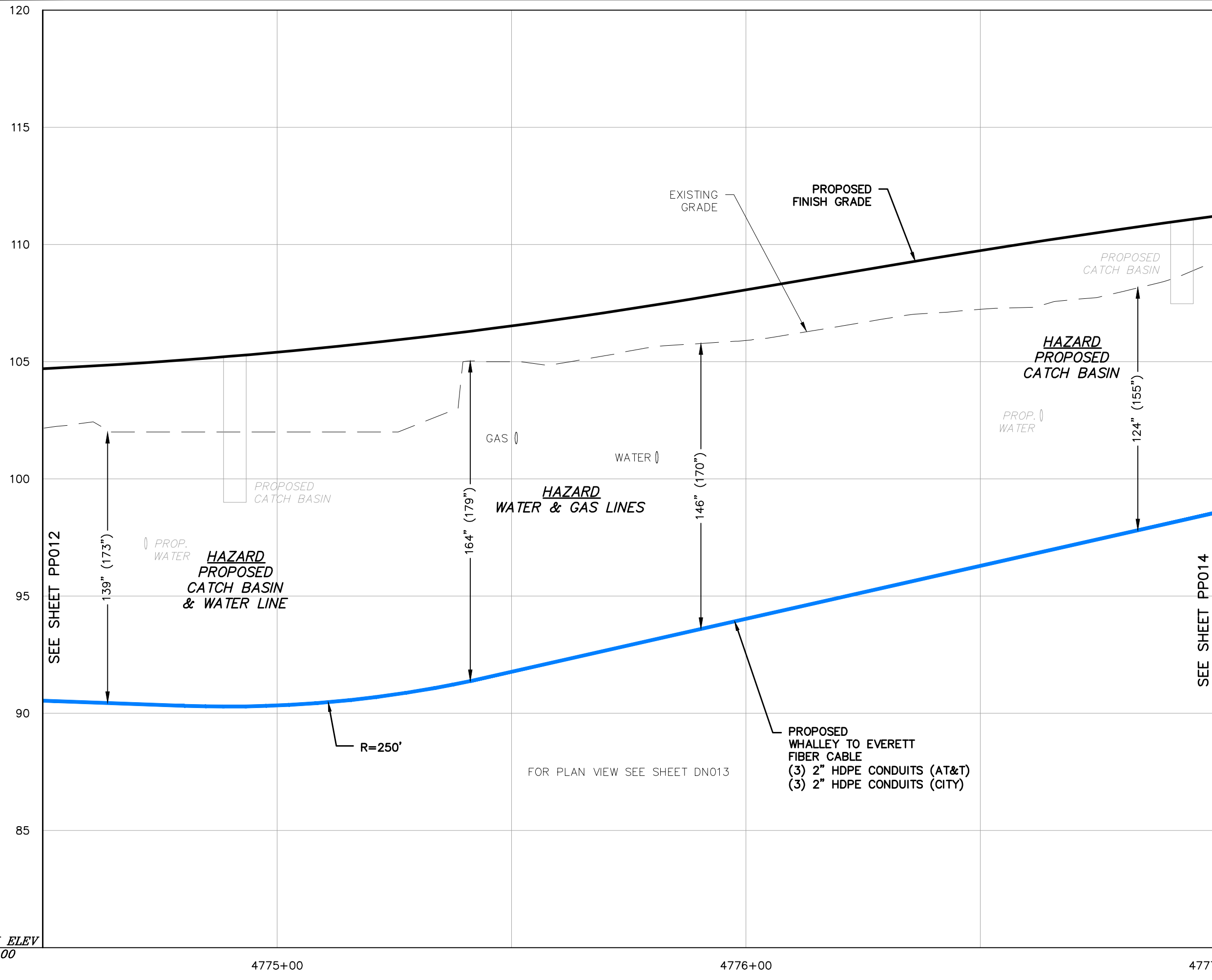
SEE SHEET PP013

FOR PLAN VIEW SEE SHEET DN012

PROPOSED
 WHALLEY TO EVERETT
 FIBER CABLE
 (3) 2" HDPE CONDUITS (AT&T)
 (3) 2" HDPE CONDUITS (CITY)

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4775+00

4776+00

4777+00

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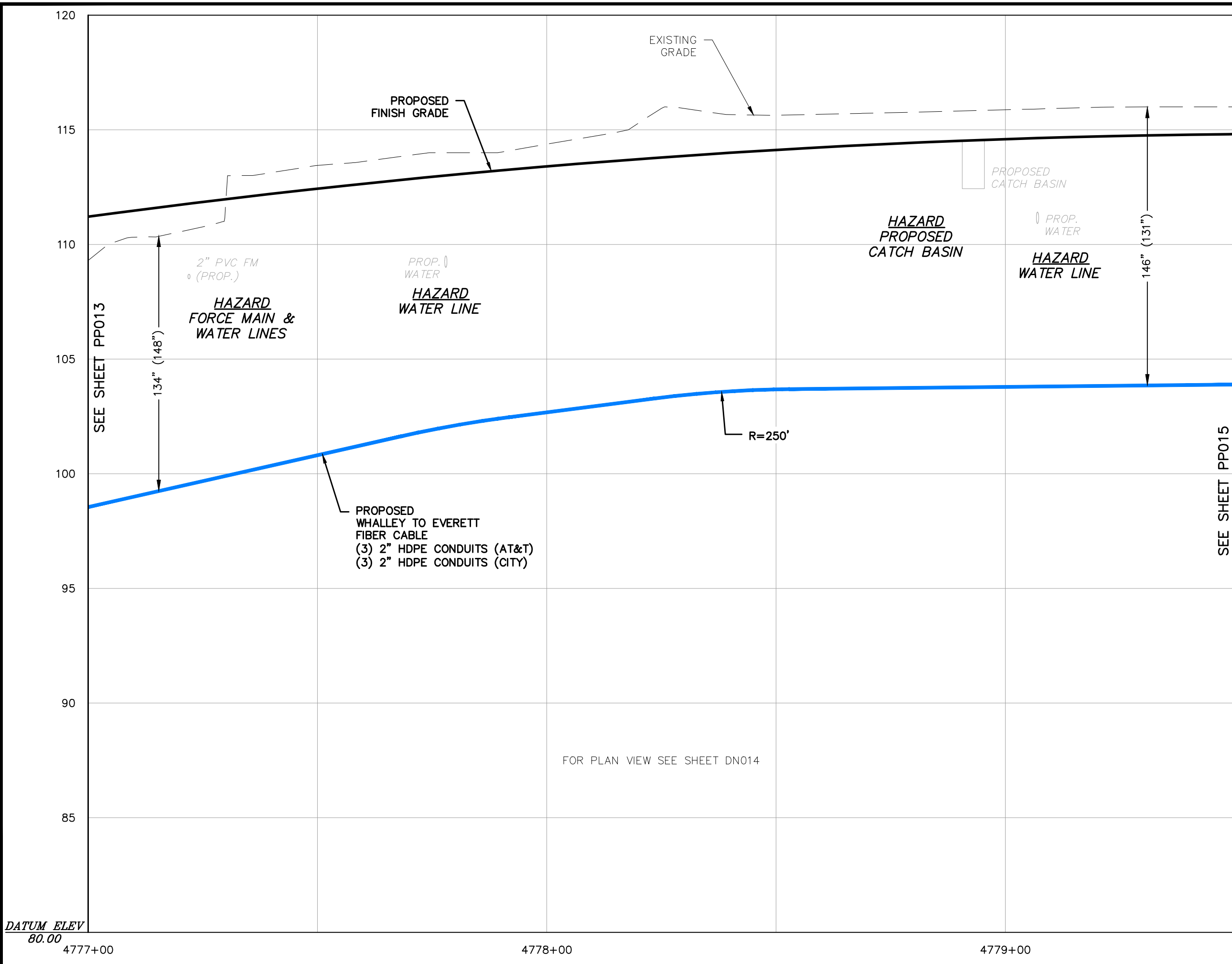
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP013

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4777+00

4778+00

4779+00

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 SPECIFICATION WR-34105
 PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
 LINE CODE:
 CABLE CLLI: BLANWU0010

SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP014

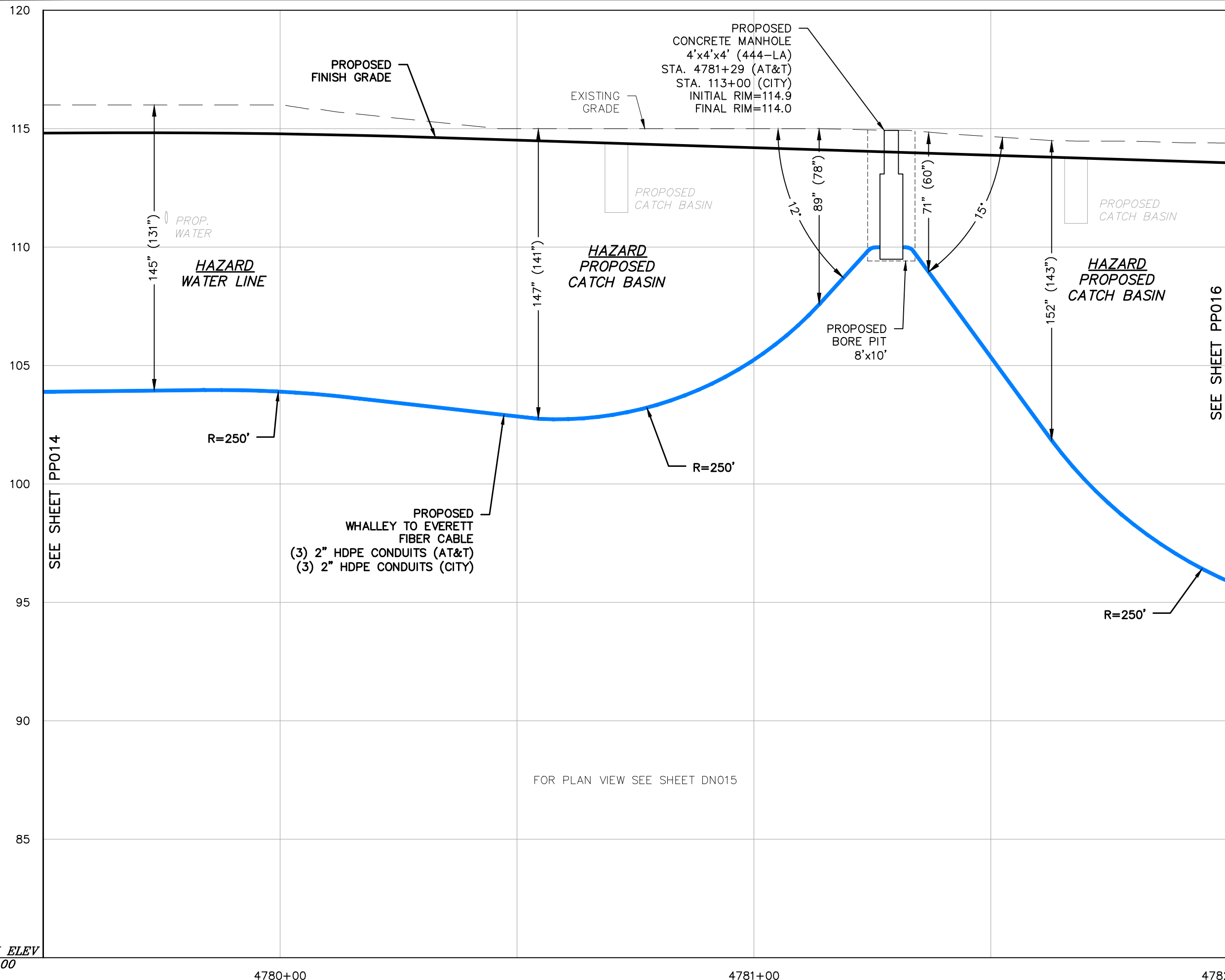
FOR PLAN VIEW SEE SHEET DN014

SEE SHEET PP013

SEE SHEET PP015

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SEE SHEET PP014

SEE SHEET PP016

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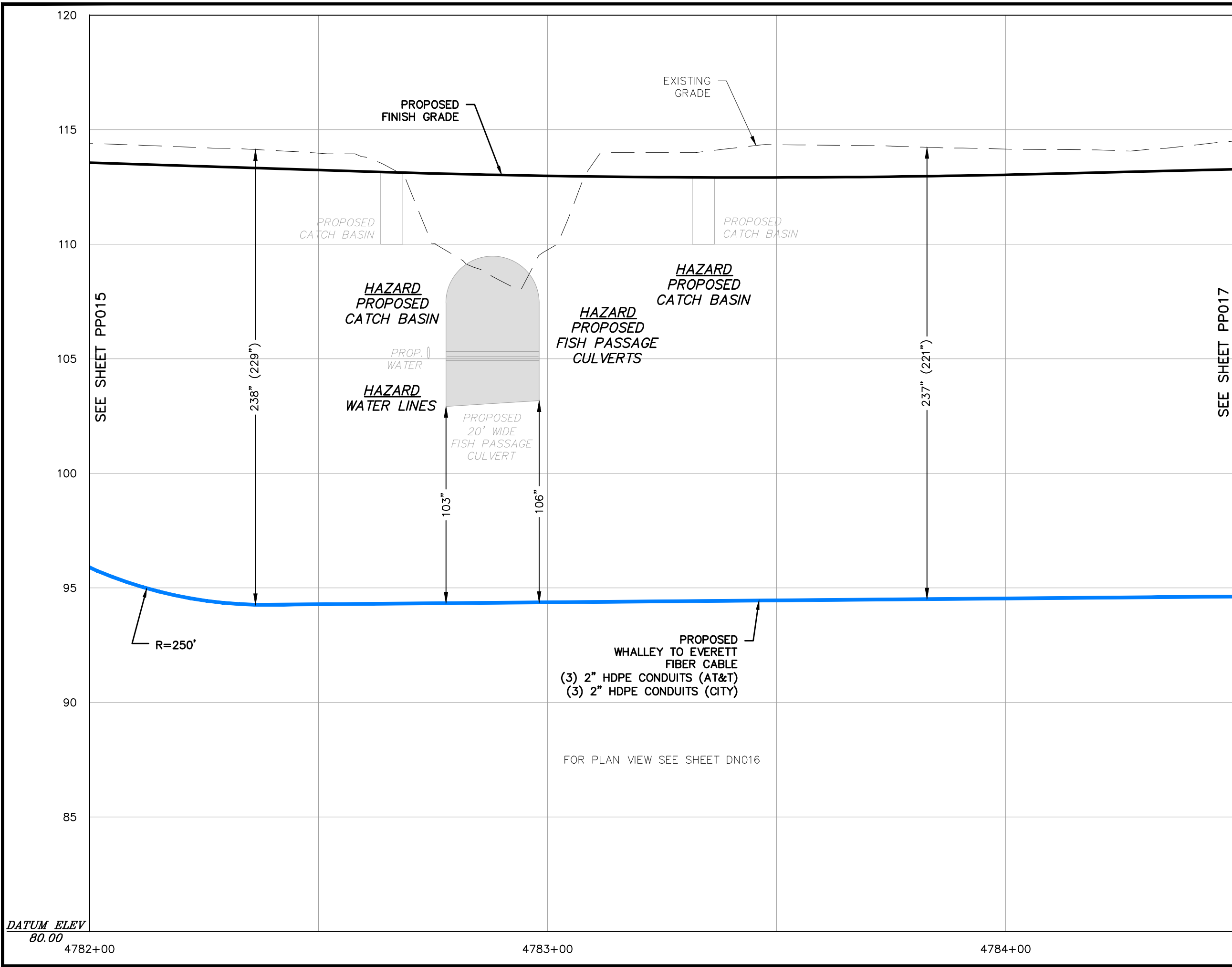
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP015

SIENA ENGINEERING GROUP, INC.
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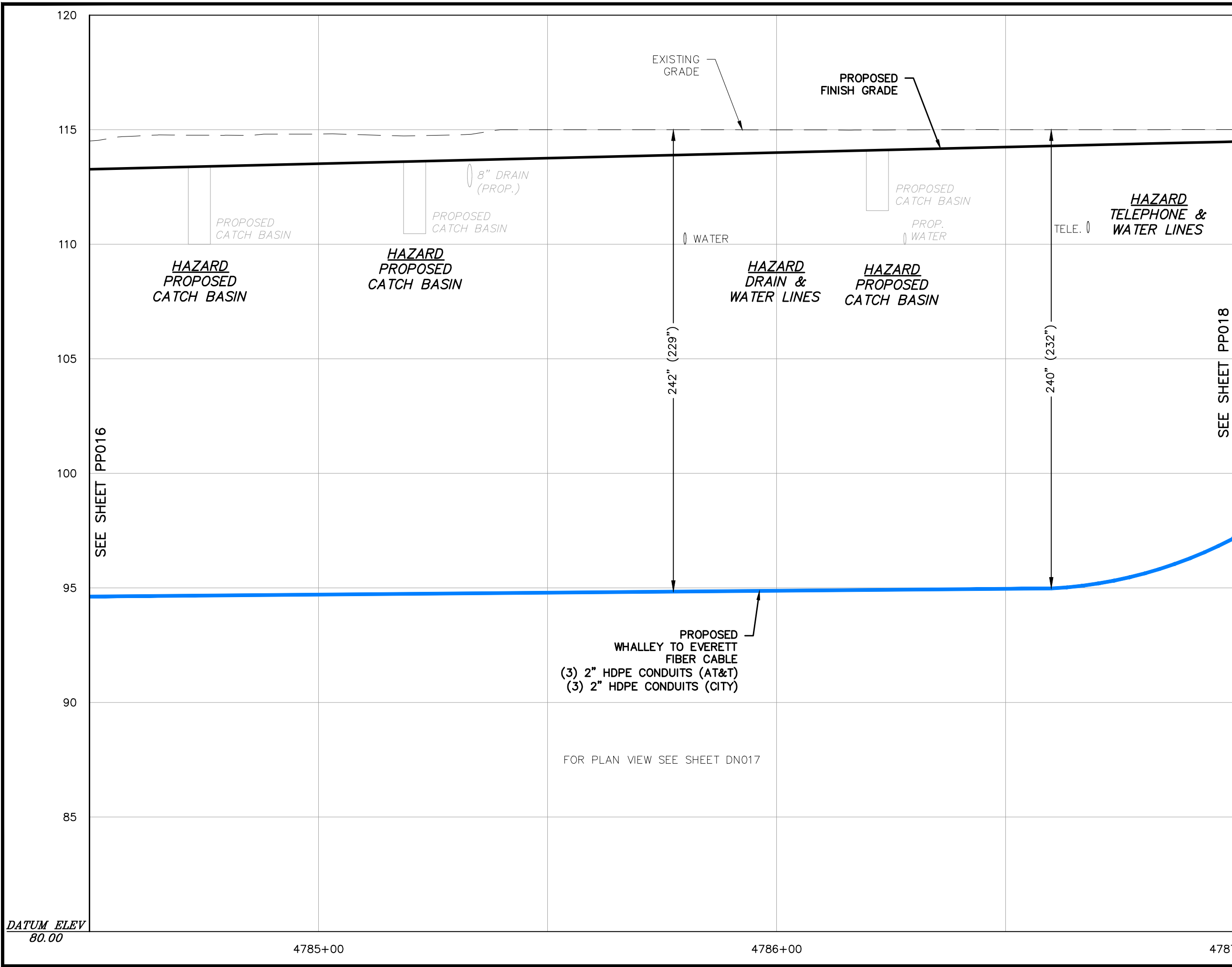
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP016

SIENA ENGINEERING GROUP, INC.
 12-70600 67th Avenue Bid Issue.dwg
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DATUM ELEV
80.00

4785+00

4786+00

4787+00

REVISIONS:
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 PROJECT NUMBER 8613972

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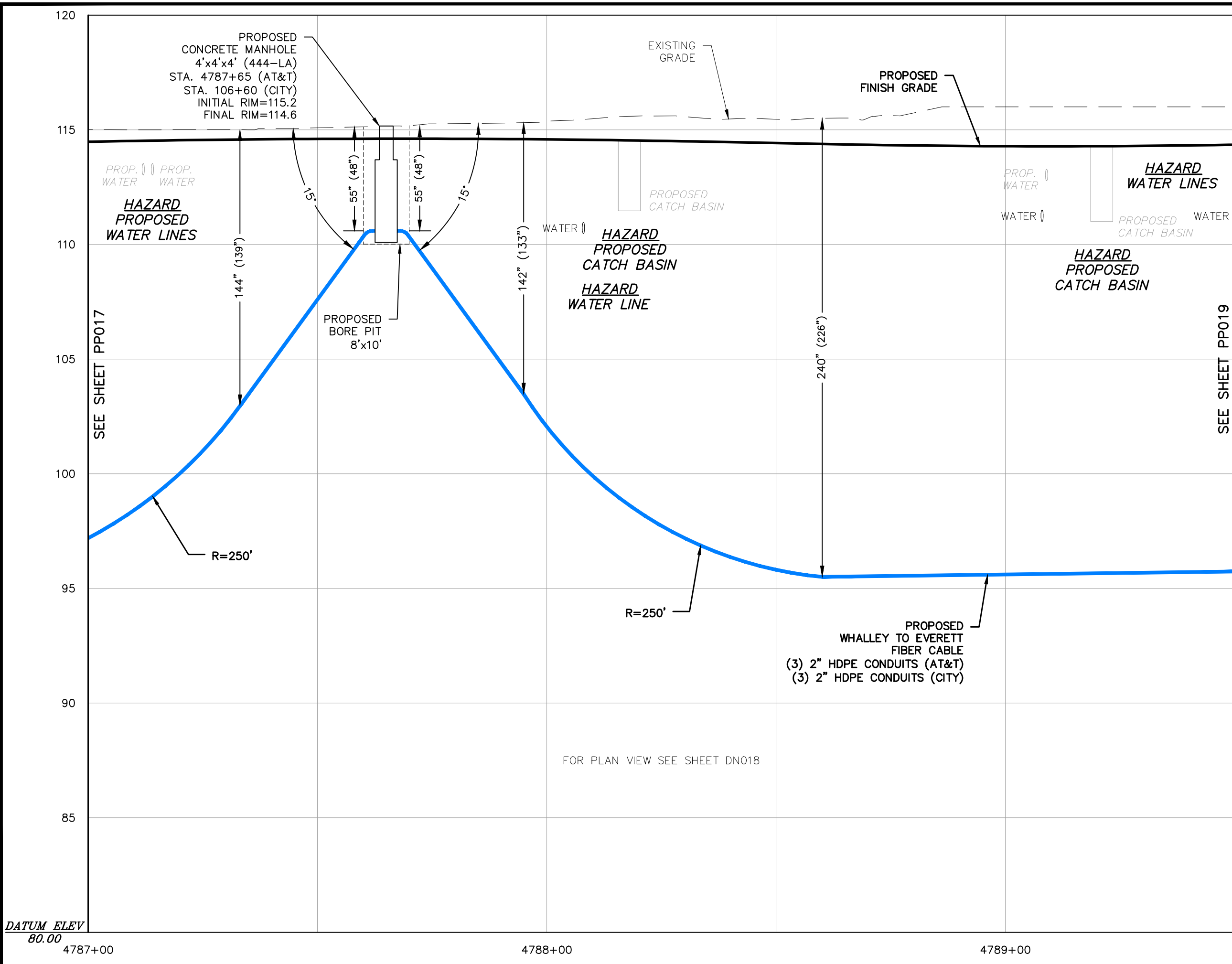
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

PP017

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DATUM ELEV
80.00

4787+00

4788+00

4789+00

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 PROJECT NUMBER 8613972

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 LINE CODE:
 CABLE CLLI: BLANWU0010

SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25

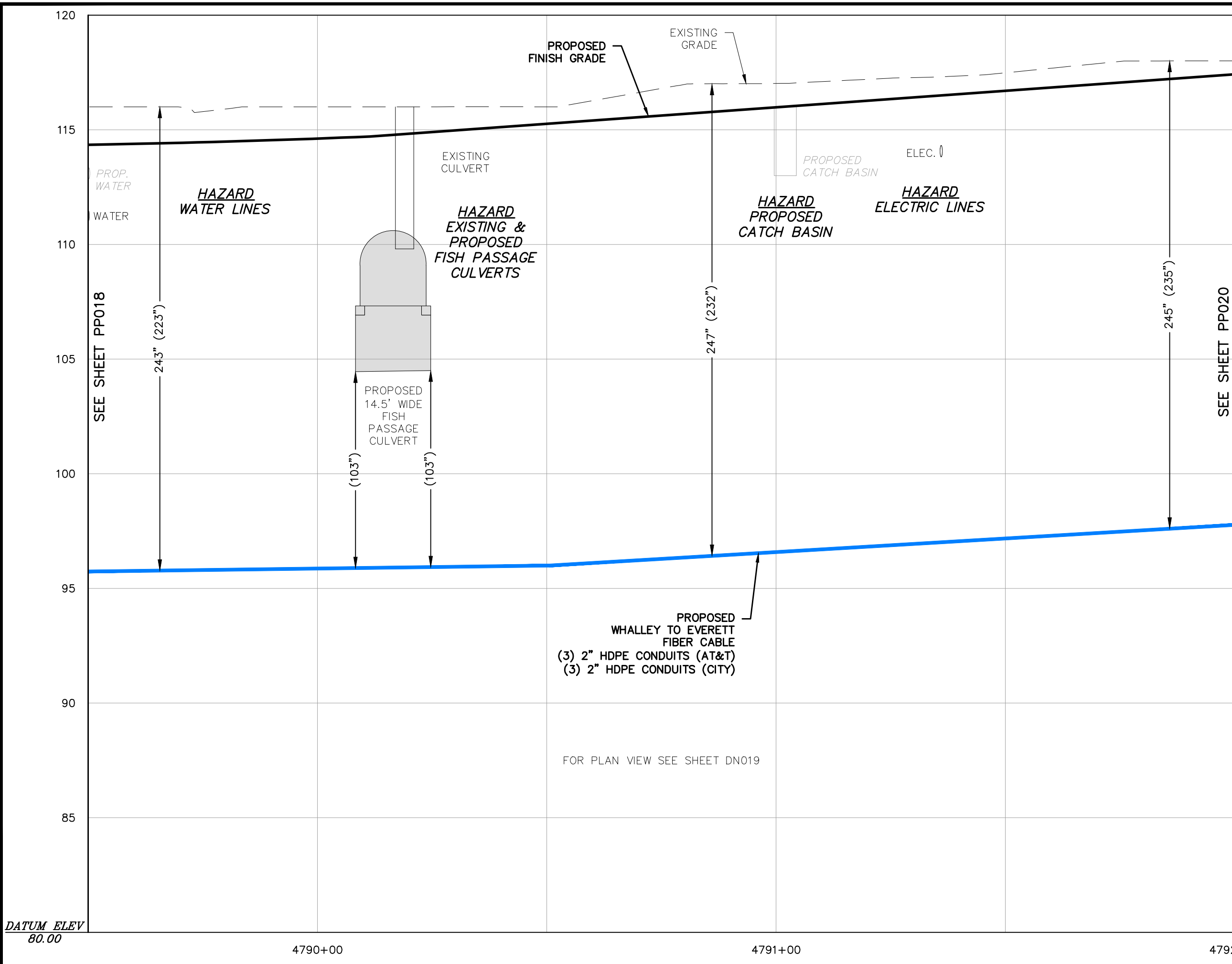
PP018

FOR PLAN VIEW SEE SHEET DN018

SEE SHEET PP017

SEE SHEET PP019

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80.00

4790+00

4791+00

4792+00

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APPROVED FOR OUTSIDE PLANT _____ ENGINEER _____ DATE _____



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 USE PURSUANT TO COMPANY INSTRUCTIONS
 SPECIFICATION WR-34105
 PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
 LINE CODE:
 CABLE CLLI: BLANWU0010

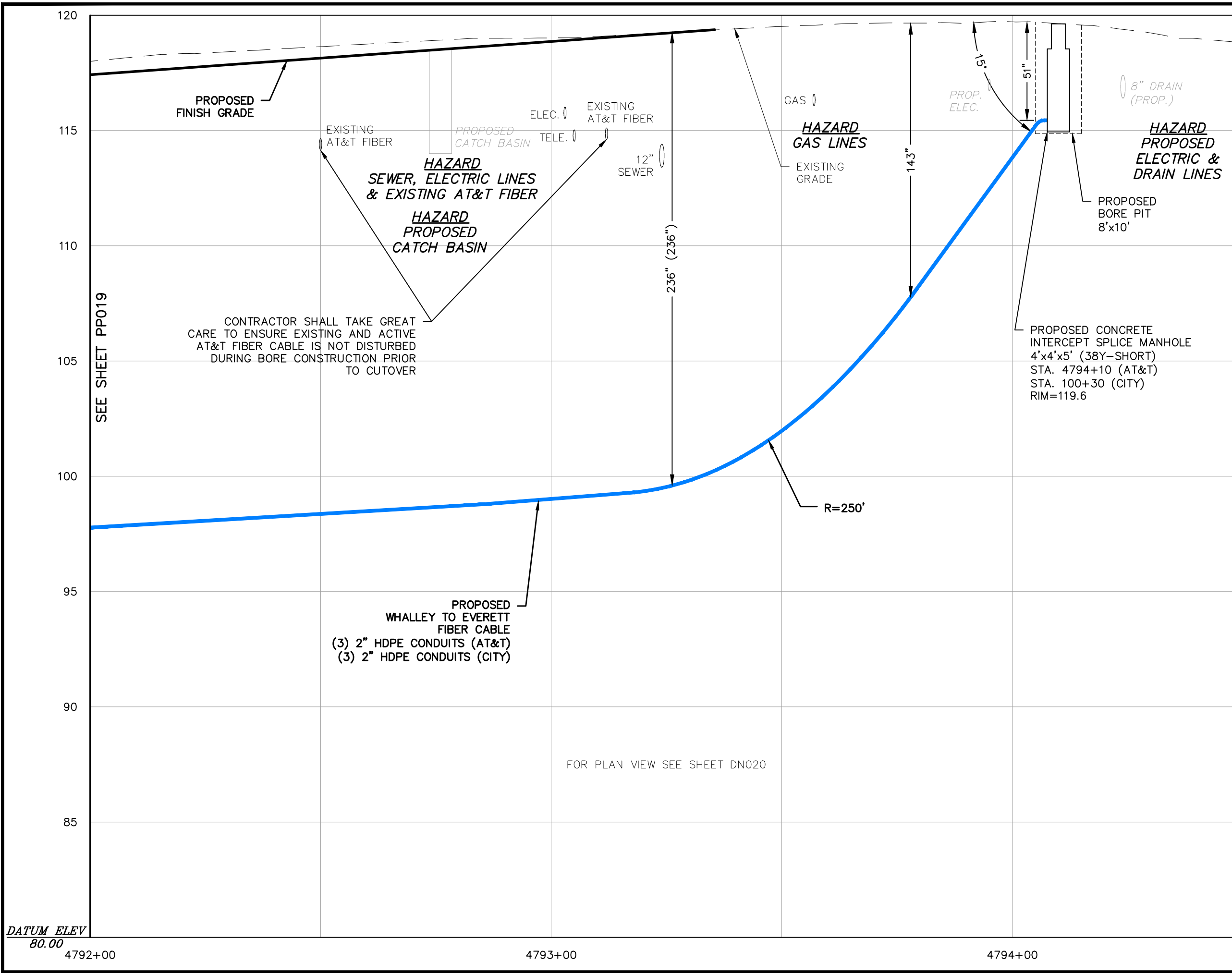
SCALE: 1" = 20'
 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
 STA. 4747+25 to 4750+25


PP019

SIENA ENGINEERING GROUP, INC.
 12-70600 67th Avenue Bid Issue.dwg
 Edited: July 19, 2012 - 8:41 AM
 Plotted: July 19, 2012 - 9:01 AM by Joseph Connor - Siema.ctb



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 1. JULY 19, 2012 BID ISSUE

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APPROVED FOR OUTSIDE PLANT	ENGINEER	DATE
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 SPECIFICATION WR-34105
 PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
 LINE CODE:
 CABLE CLLI: BLANWAU0010

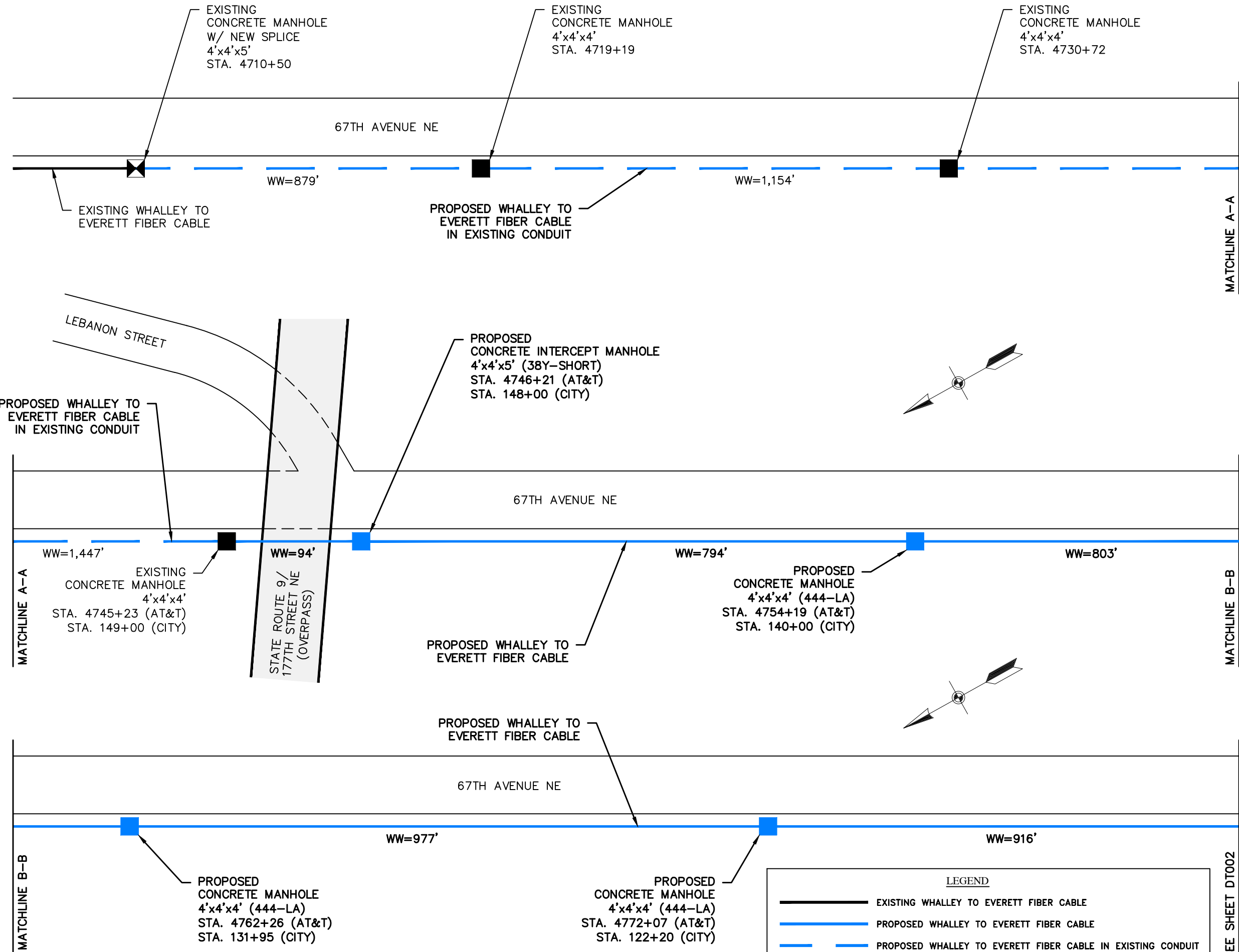
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 1" = 4'

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

PLAN AND PROFILE
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PP020

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 PROJECT NUMBER 8613972

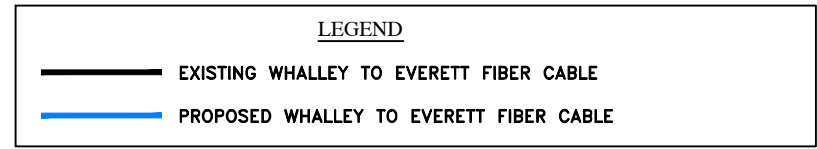
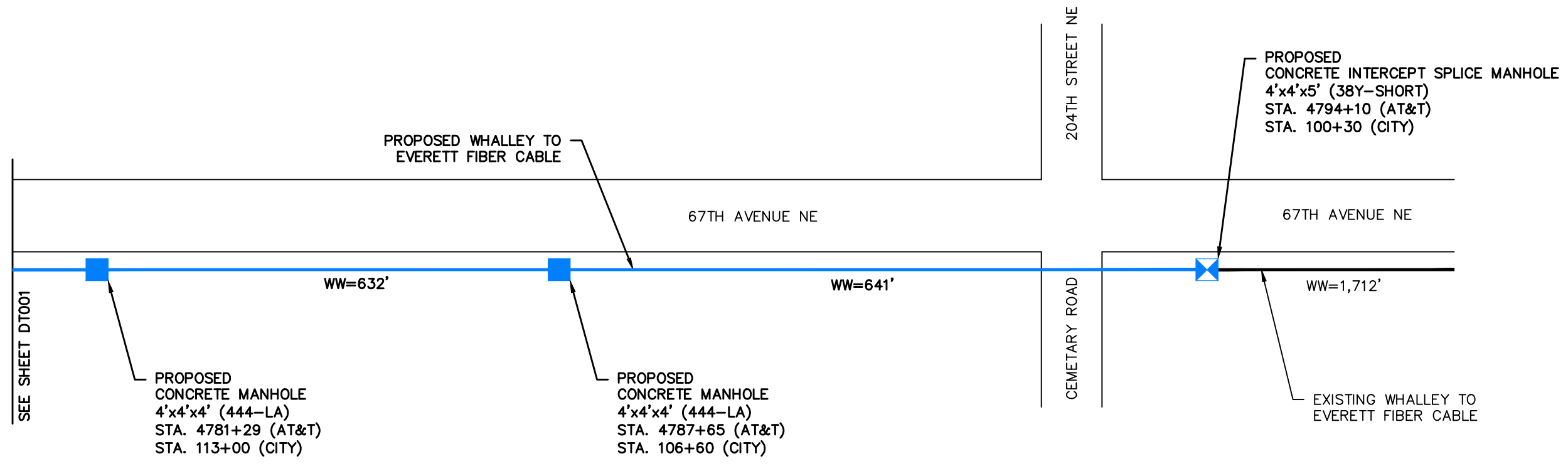
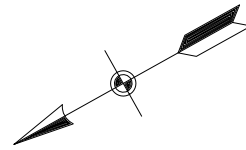
OWNERSHIP: 100% ISD
 LINE CODE:
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SCALE: NOT TO SCALE

67TH AVENUE NE
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CABLE PULLING
 DIAGRAM

DT001



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APPROVED FOR OUTSIDE PLANT	ENGINEER	DATE
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PROPRIETARY
 USE PURSUANT TO COMPANY INSTRUCTIONS
 SPECIFICATION WR-34105
 PROJECT NUMBER 8613972

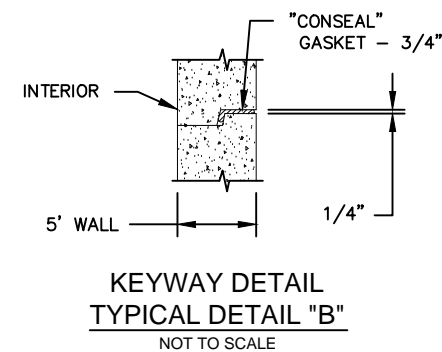
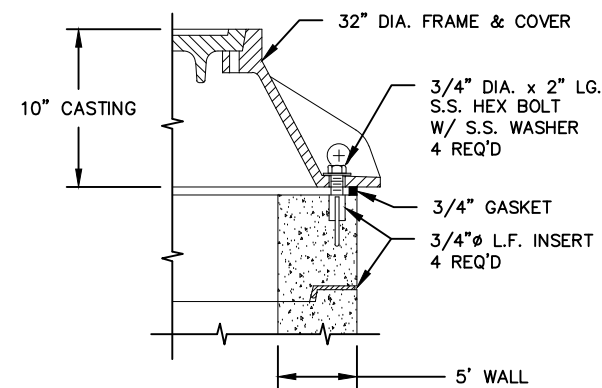
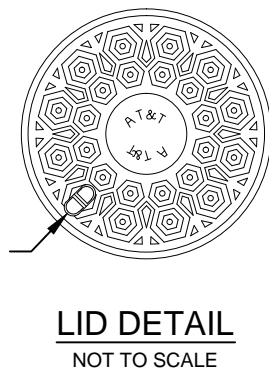
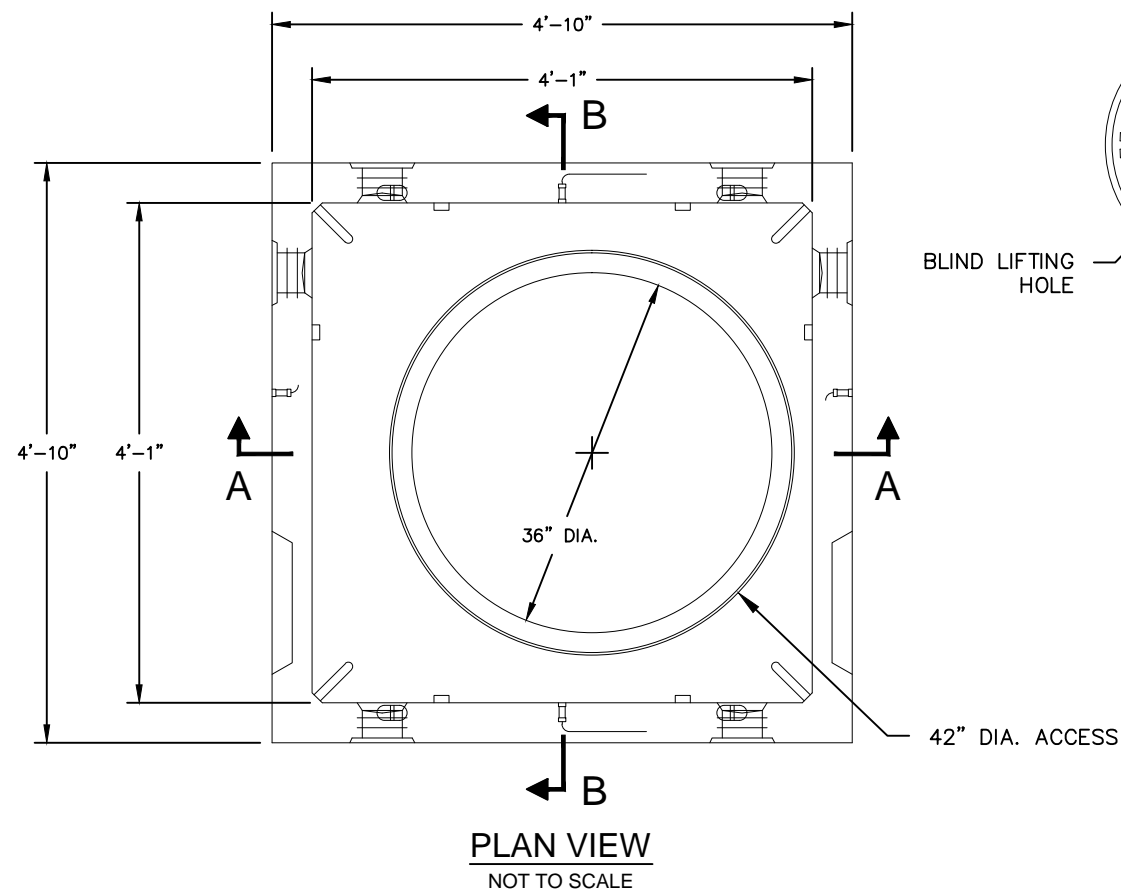
OWNERSHIP: 100% ISD
 LINE CODE:
 CABLE CLLI: BLANWU0010

SCALE: NOT TO SCALE

67TH AVENUE NE
 WHALLEY, BC
 TO EVERETT, WA

CABLE PULLING
 DIAGRAM

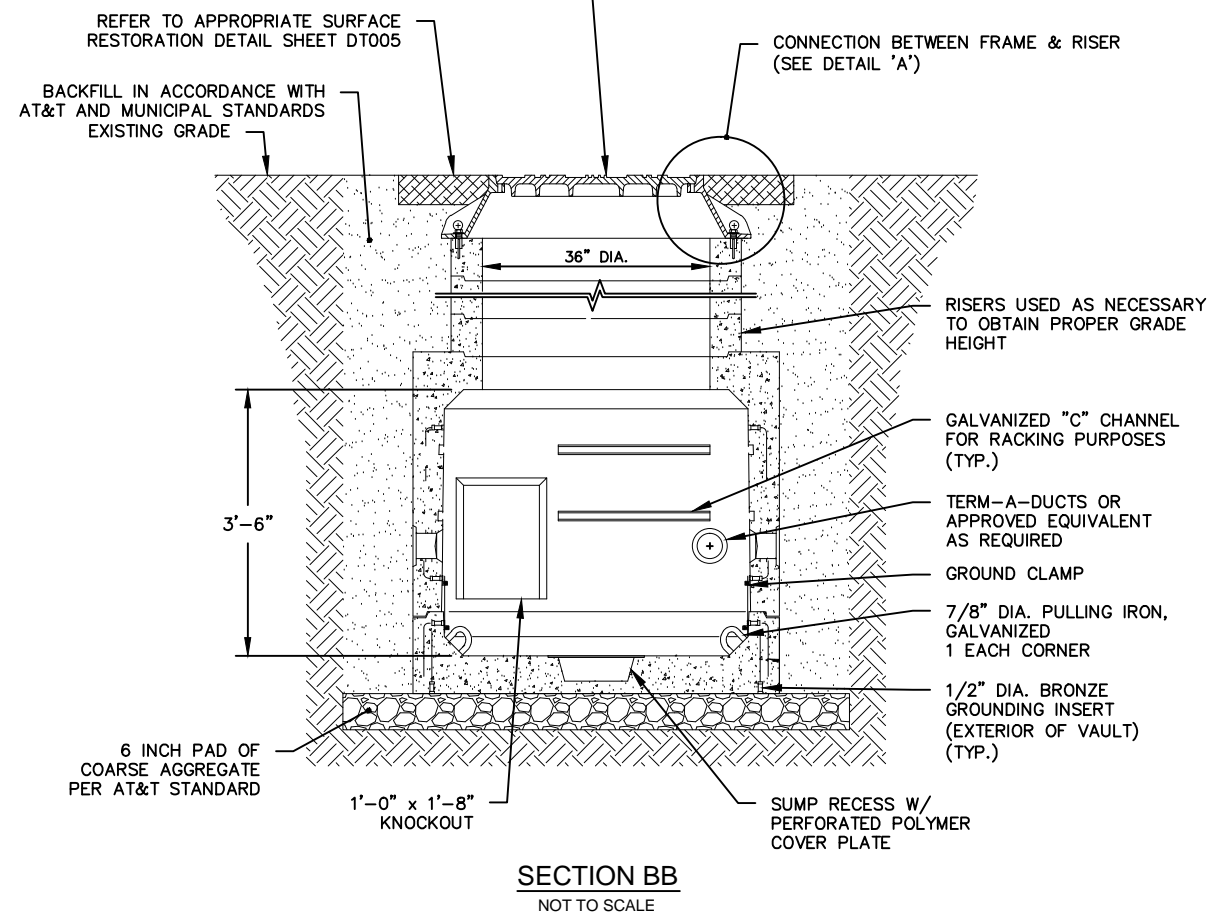
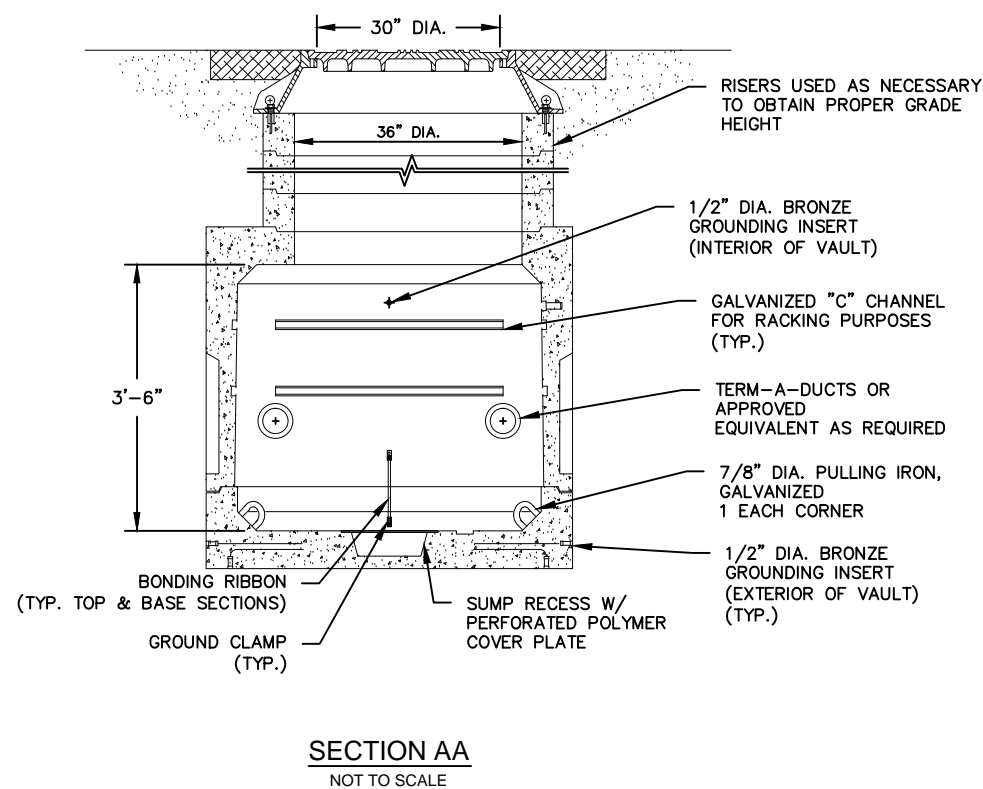
DT002



NOTES:

1. MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T STANDARD SPECIFICATIONS FOR OUTSIDE PLANT CABLE CONSTRUCTION AND REMOVAL.
2. GASKET AND ENTIRE JOINT AREA BETWEEN MANHOLE SECTIONS MUST BE FREE OF DIRT AND STONES WHEN THE MANHOLE SECTIONS ARE JOINED.
3. THE MANHOLE SECTIONS MUST BE PROPERLY ALIGNED WHEN JOINED. IF THEY ARE NOT, REMOVE THE MISALIGNED SECTION, REMOVE THE GASKET AND CLEAN THE JOINT AREA, INSTALL A NEW GASKET, AND REJOIN THE MANHOLE SECTIONS.
4. BASED ON PLANS TITLED 38Y-506-AT VAULT ASSEMBLY, SHORT INTERCEPT, STANDARD PRODUCT, DRAWING NUMBER CN-0184, REV G, PREPARED BY UTILITY VAULTS COMPANY, AUBURN, WA. (OLDCASTLE PRECAST INC.) DATED 3/24/95.
5. MANHOLES SHALL COMPLY TO HS 20 LOAD RATINGS FOR PLACEMENT IN ROADWAYS.
6. MANHOLE RACKING TO CONFORM WITH AT&T SPECIFICATIONS. REFER TO RACKING DETAIL SHEET.
7. SPLICE MANHOLES SHALL INCLUDE AC/DC FILTER PROTECTION PER AT&T SPECIFICATIONS.
8. STEP 1: MANHOLE LID SHALL BE SET TO EXISTING GRADE BY CONTRACTOR. STEP 2: MANHOLE LID SHALL BE ADJUSTED TO FINAL GRADE BY CONTRACTOR.

THE CAST IRON MANHOLE FRAME AND LID SHALL BE HEAVY-DUTY WITH A BLIND LIFTING HOLE AND SECURITY BOLTED. MANHOLE FRAME AND COVER SHALL BE PART NO. E-1380 AS MANUFACTURED BY D&L FOUNDRY & SUPPLY (707-557-4525). COVERS SHALL BE BROUGHT TO GRADE BY CONTRACTOR.



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PROJECT NUMBER 8613972

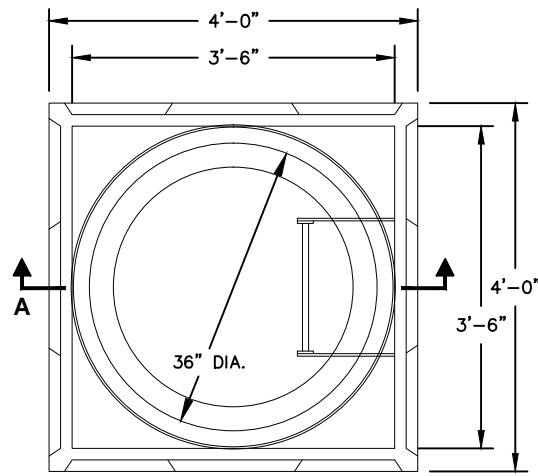
OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

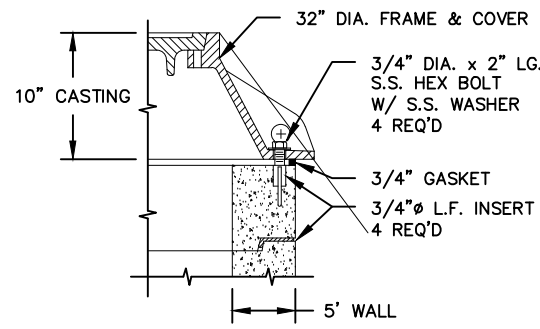
67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

CONCRETE MANHOLE DETAIL
38Y-SHORT

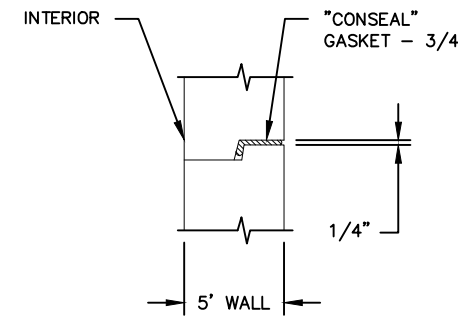
DT003



PLAN VIEW
NOT TO SCALE



CONNECTION BETWEEN FRAME & RISER
TYPICAL DETAIL "A"
NOT TO SCALE



KEYWAY DETAIL
TYPICAL DETAIL "B"
NOT TO SCALE

NOTES:

1. ALL MANHOLES SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLES.
2. BONDING RIBBON OR INSERTS SHALL BE WELDED TO AT&T MANHOLE REINFORCING STEEL AND EMBEDDED IN THE CONCRETE AT THE TIME OF AT&T MANHOLE FABRICATION.
3. FOUR 1/2" DIA. BRONZE GROUNDING INSERTS, WELDED TO THE MANHOLE REINFORCING STEEL, SHALL BE EMBEDDED IN THE FOUR OUTSIDE BOTTOM CORNERS OF THE AT&T MANHOLE.
4. FOUR STAINLESS STEEL 1/2" DIA. x 2" BOLTS SHALL BE INSERTED AT THE TIME OF THE AT&T MANHOLE PLACEMENT.
5. BACKFILL FOR MANHOLES INSTALLED TO BE CLEAN SAND BACKFILL PLACED IN ACCORDANCE WITH MUNICIPAL SPECIFICATIONS.
6. BASED ON PLANS TITLED 444-LA BY U.V. AUBURN (A DIVISION OF OLDCASTLE PRECAST INC.) AVAILABLE AT WWW.UVAUBURN.COM ISSUE DATE: JANUARY 2006.
7. MANHOLES SHALL COMPLY TO HS 20 LOAD RATINGS FOR PLACEMENT IN ROADWAYS
8. STEP 1: MANHOLE LID SHALL BE SET TO EXISTING GRADE BY CONTRACTOR.
STEP 2: MANHOLE LID SHALL BE ADJUSTED TO FINAL GRADE BY CONTRACTOR.

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SPECIFICATION WR-34105
PROJECT NUMBER 8613972

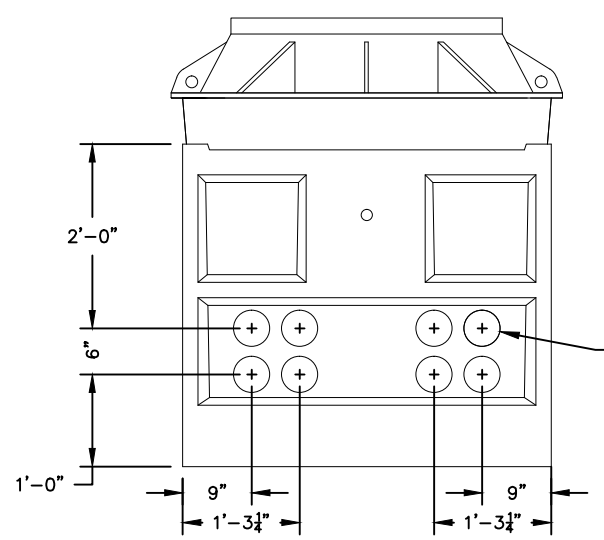
OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

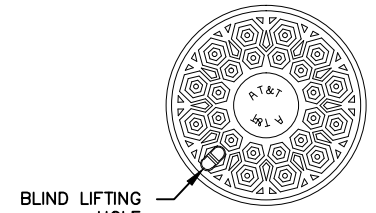
67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

CONCRETE MANHOLE DETAIL
444-LA

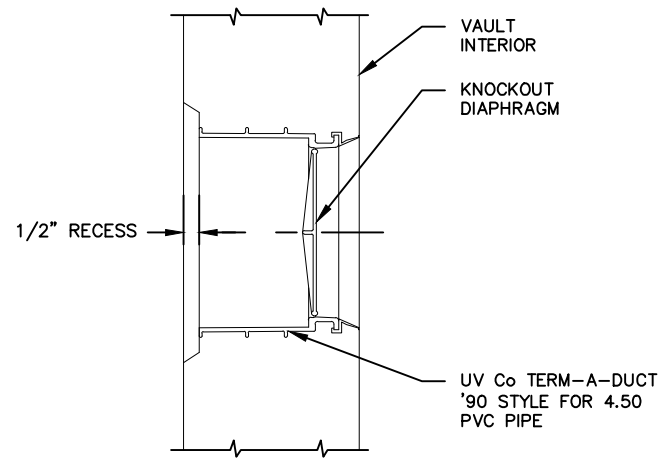
DT004



END VIEW
NOT TO SCALE

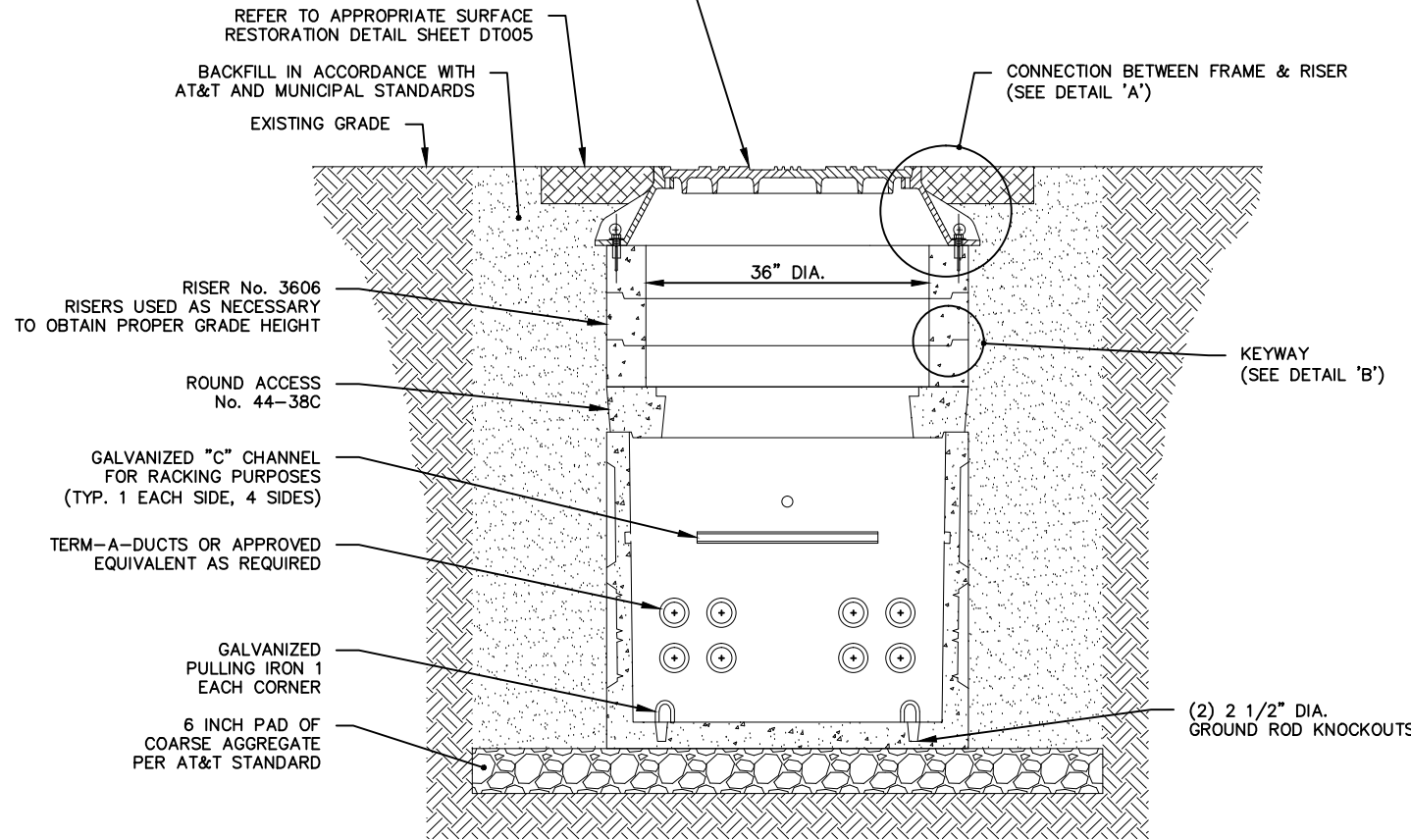


LID DETAIL
NOT TO SCALE



DUCT ENTRANCE DETAIL
TERM-A-DUCT ENTRANCE
TYPICAL 6 PLACES IN VAULT
NOT TO SCALE

THE CAST IRON MANHOLE FRAME AND LID SHALL BE HEAVY-DUTY WITH A BLIND LIFTING HOLE AND SECURITY BOLTED. MANHOLE FRAME AND COVER SHALL BE PART NO. E-1380 AS MANUFACTURED BY D&L FOUNDRY & SUPPLY (707-557-4525). COVERS SHALL BE BROUGHT TO GRADE BY CONTRACTOR.

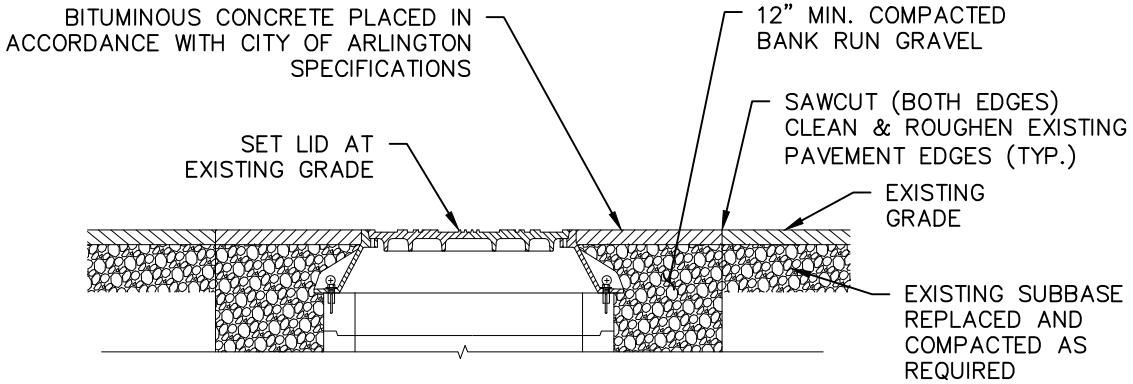


SECTION AA
NOT TO SCALE

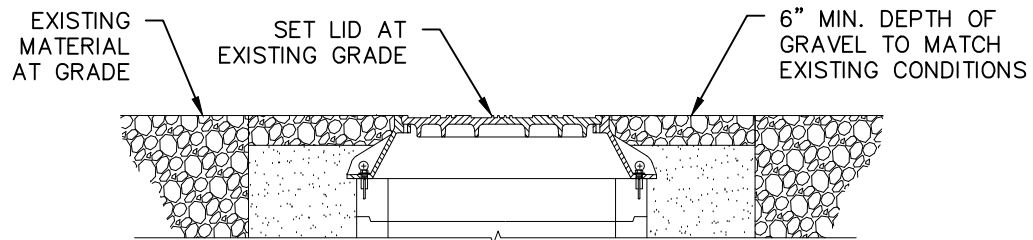
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GROUND ROD AND WIRE INSTALLATIONS FOR MANHOLES AND HANDHOLES

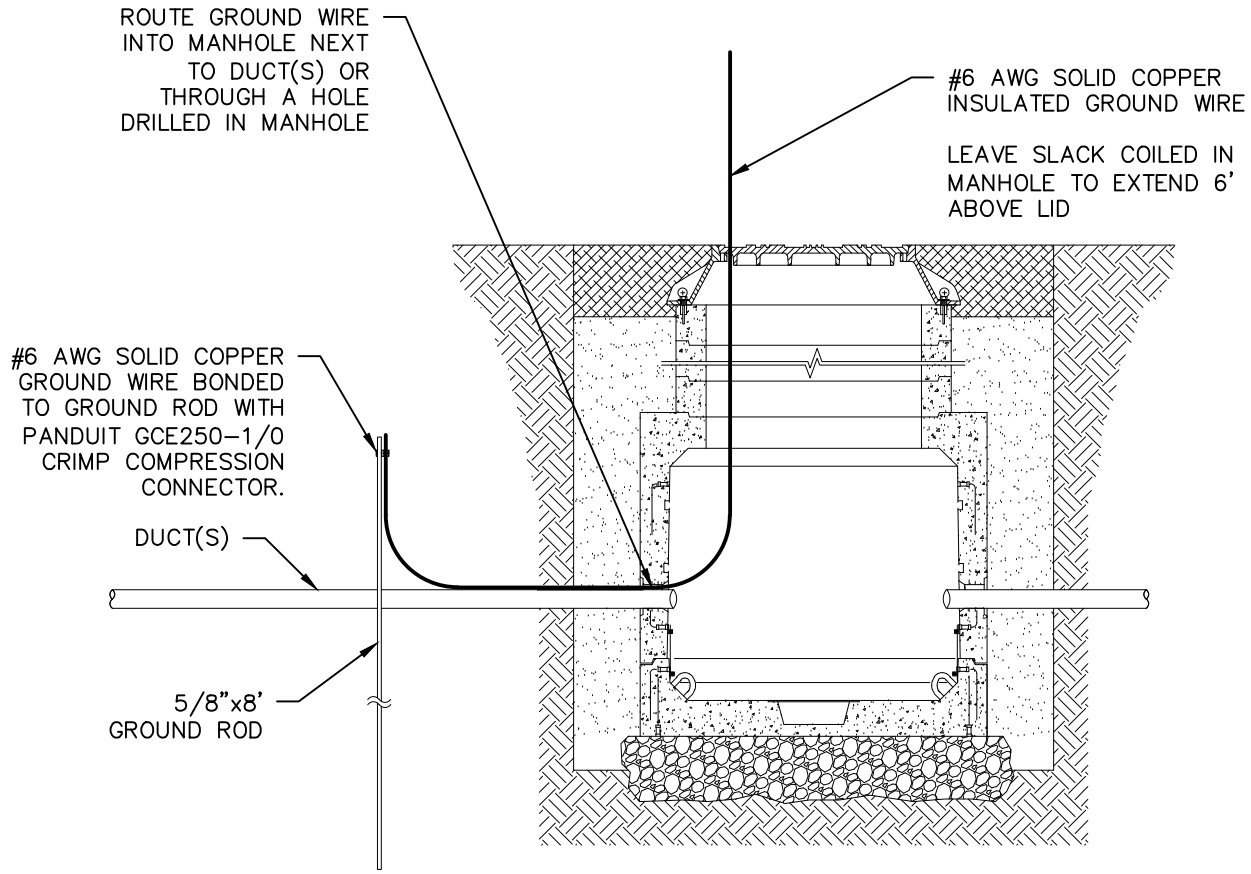
PANDUIT PARTS LIST	
PANDUIT PART #	DESCRIPTION
GCE250-1/0	GROUND "E" STYLE CONNECTOR 5/8" GROUND ROD TO #6 SOLID (REQUIRED AT INSTALLATION OF MANHOLE/SPLICE BOX)
GCE1/0-1/0	GROUND "E" STYLE CONNECTOR #6 SOLID WIRE TO #6 SOLID WIRE (USED WHEN CONNECTING SPLICE CASE OR FILTER/ARRESTOR TO PREINSTALLED GROUND WIRE)
CD-920G-250	DIE FOR 250 CONNECTORS
CD-920G-1/0	DIE FOR 1/0 CONNECTORS
CT-2931	PORTABLE COMPRESSION TOOL



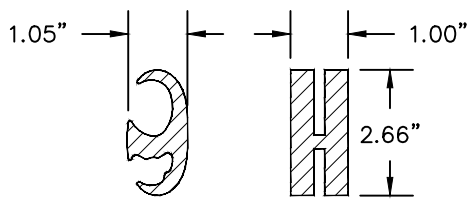
**RESTORATION OF PAVED AREA
AT PROPOSED MANHOLE PLACEMENT**
DETAIL 'A'
NOT TO SCALE



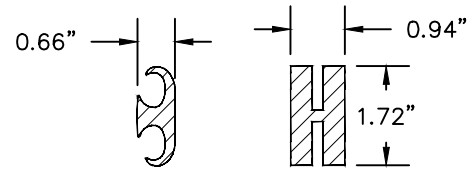
**RESTORATION OF GRAVEL AREA
AT PROPOSED MANHOLE PLACEMENT**
DETAIL 'B'
NOT TO SCALE



**GROUNDING
FOR MANHOLES**
NOT TO SCALE



**GCE250-1/0
CONNECTOR DETAIL**
NOT TO SCALE



**GCE1/0-1/0
CONNECTOR DETAIL**
NOT TO SCALE

GROUNDING FOR MANHOLES:

- THE GROUND ROD FOR A MANHOLE SHOULD BE DRIVEN INTO NON-DISTURBED DIRT AS NEAR TO THE STRUCTURE AS POSSIBLE. UNDISTURBED DIRT HAS GREATER CONDUCTIVITY THAN COMPACTED FILL DIRT. IF UNABLE TO INSTALL THE ROD INTO UNDISTURBED DIRT NEAR THE STRUCTURE, DRIVE THE ROD DEEPER BELOW THE STRUCTURE IF POSSIBLE. THE TOP OF THE ROD SHOULD BE AT LEAST AS DEEP AS THE SHOULDER OF THE MANHOLE OR AT LEAST SIX INCHES BELOW THE TOP OF THE HANDHOLE.
- THE GROUND WIRE WILL BE BONDED TO THE ROD WITH THE PROPER PANDUIT CRIMP CONNECTOR AND ROUTED INTO THE MANHOLE EITHER THROUGH ONE OF THE CABLE ENTRANCES OR A HOLE DRILLED INTO THE UPPER PART OF THE STRUCTURE.
- THERE SHALL BE ENOUGH SLACK WIRE LEFT IN THE STRUCTURE TO EASILY REACH SIX FEET ABOVE THE MANHOLE LID. THIS WILL EASE THE INSTALLATION OF PROPOSED SPLICE CASES OR FILTER/ARRESTORS. COIL THE SLACK WIRE NEATLY AND USE PLASTIC TIES TO SECURE IT OUT OF THE WAY.

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PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWAW0010

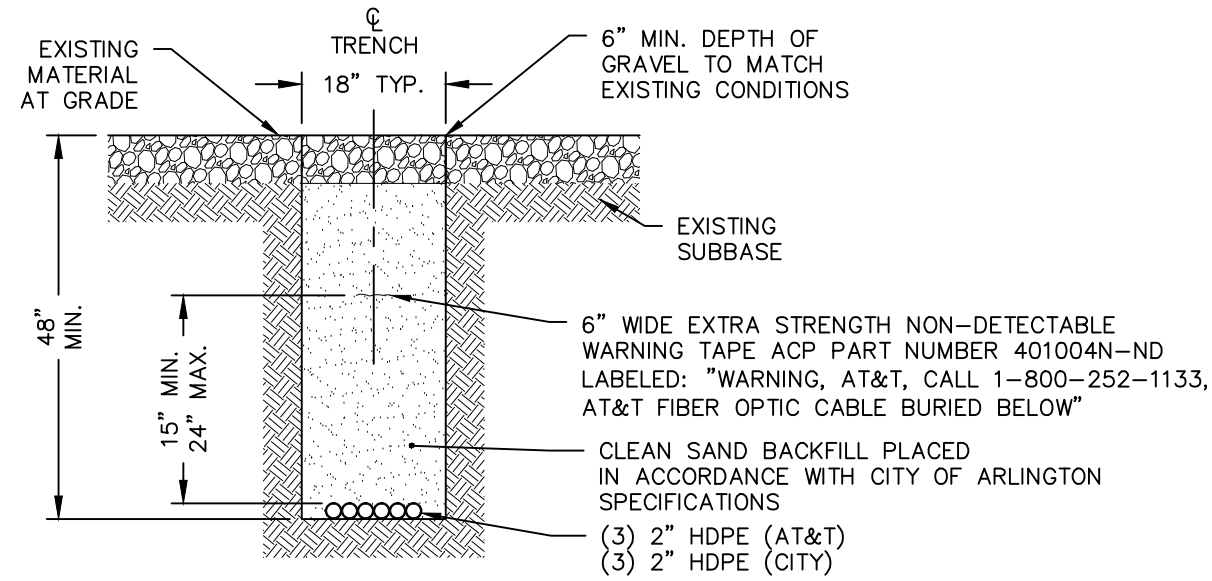
SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

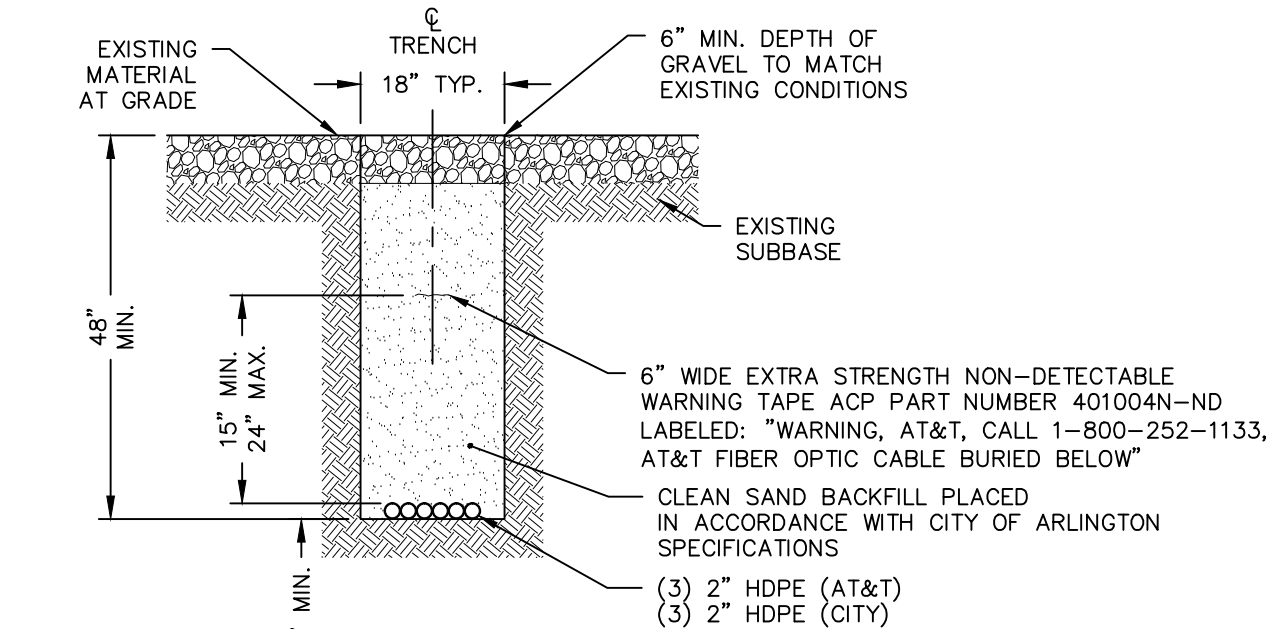
TYPICAL MANHOLE GROUNDING & RESTORATION DETAILS

DT005

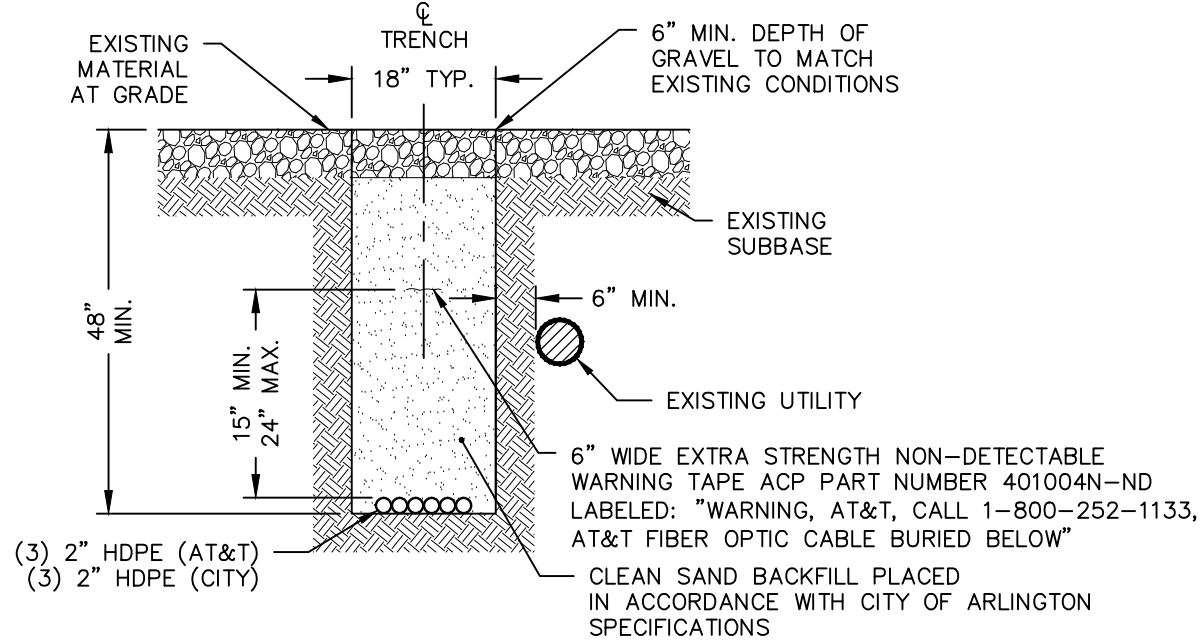
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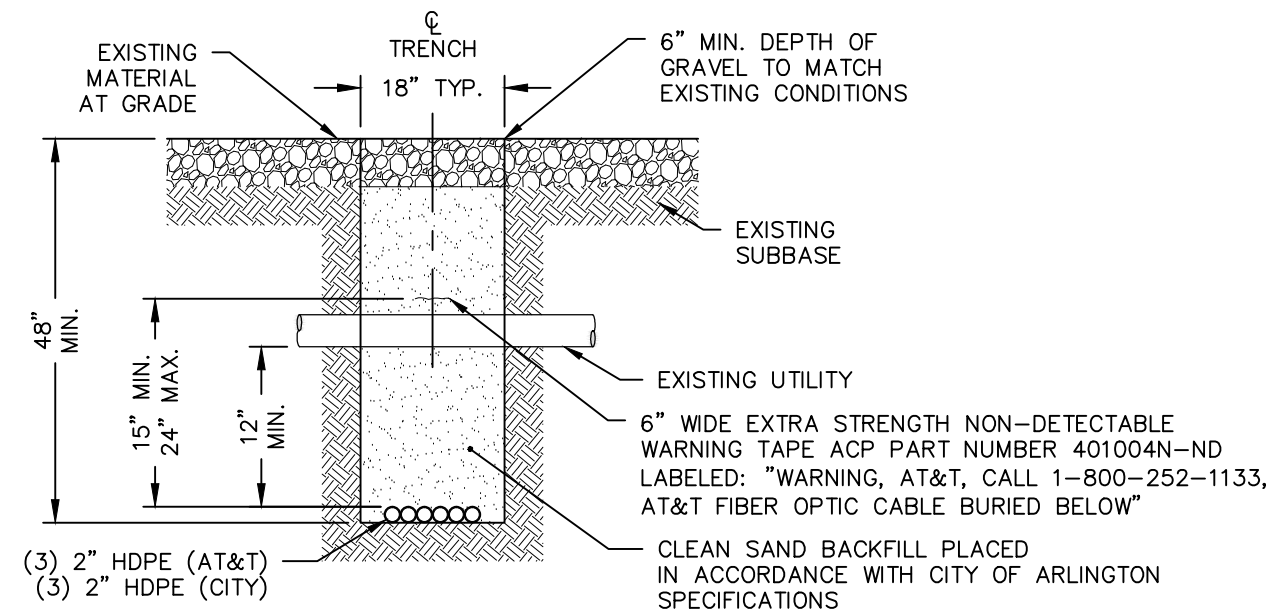
GRAVEL AREA REPLACEMENT
 TYPICAL TRENCH DETAIL
 SCALE: 1/2" = 1'-0"



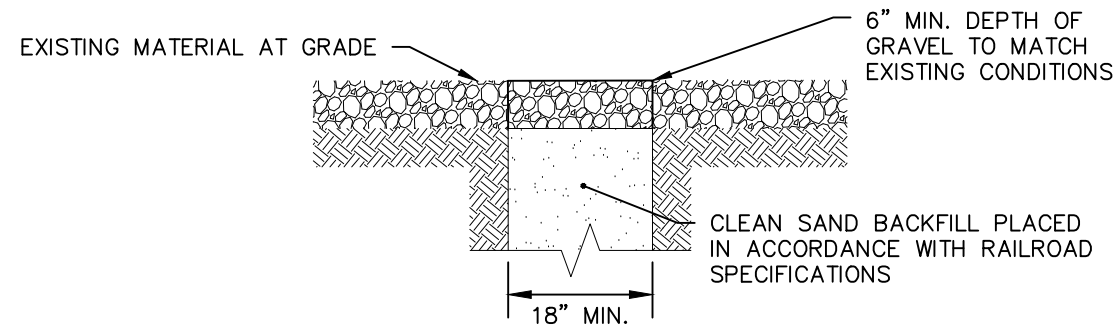
GRAVEL AREA REPLACEMENT
 TYPICAL TRENCH DETAIL
 CROSSING ABOVE AN EXISTING UTILITY
 SCALE: 1/2" = 1'-0"



GRAVEL AREA REPLACEMENT
 TYPICAL TRENCH DETAIL
 SCALE: 1/2" = 1'-0"



GRAVEL AREA REPLACEMENT
 TYPICAL TRENCH DETAIL
 SCALE: 1/2" = 1'-0"



GRAVEL AREA REPLACEMENT DETAIL
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SPECIFICATION WR-34105
PROJECT NUMBER 8613972

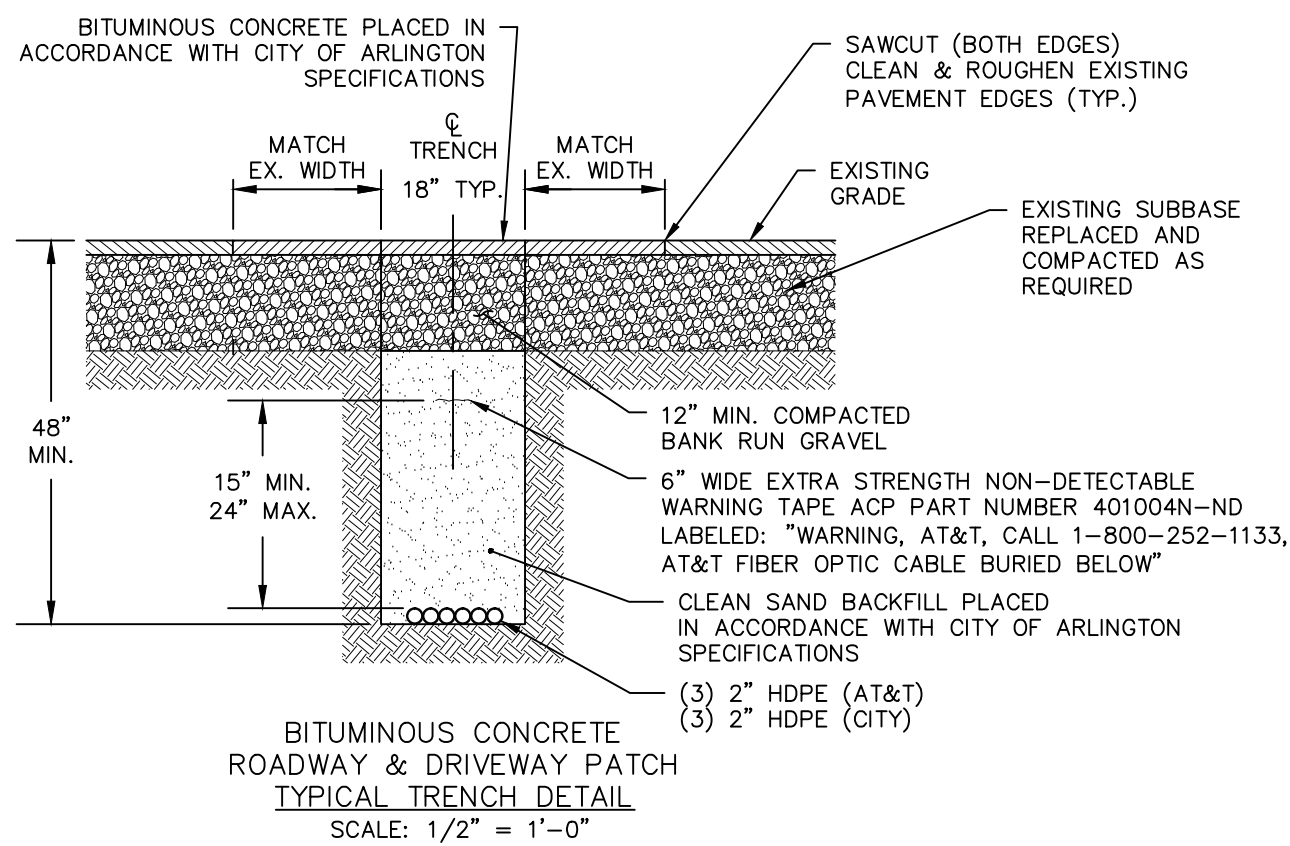
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LINE CODE:
CABLE CLLI: BLANWAW0010

SCALE: AS NOTED

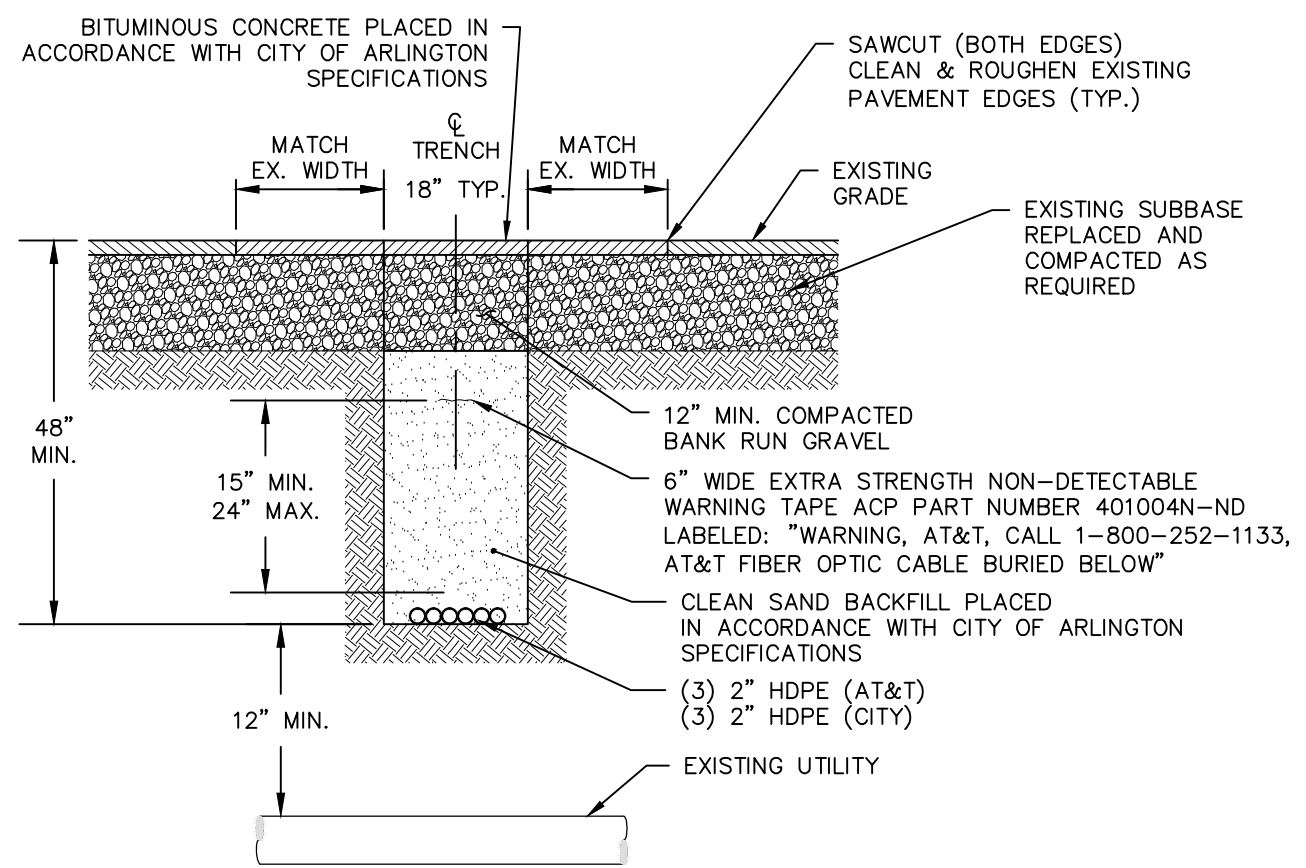
67TH AVENUE NE
WALLEY, BC
TO EVERETT, WA

CABLE PULLING
DIAGRAM

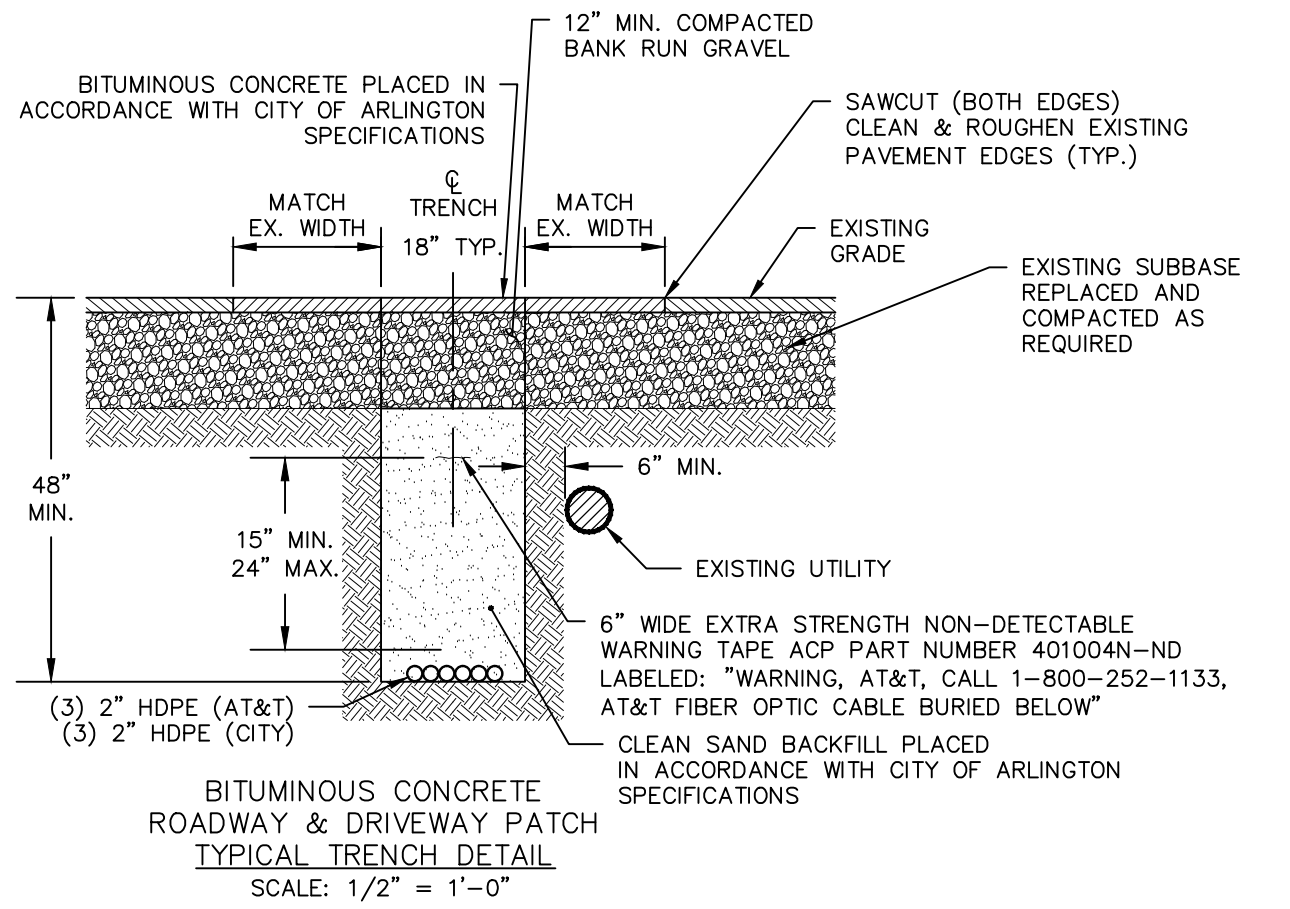
DT007



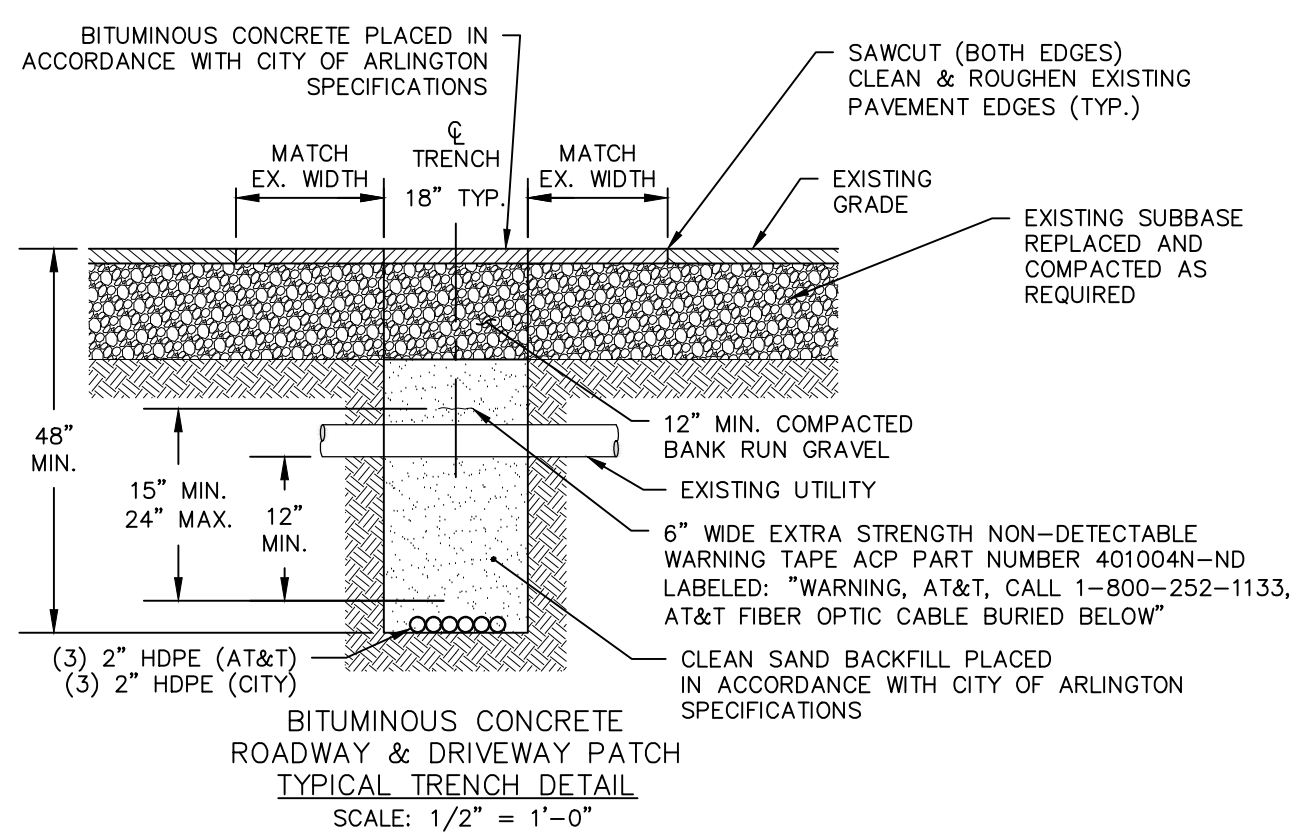
BITUMINOUS CONCRETE
ROADWAY & DRIVEWAY PATCH
TYPICAL TRENCH DETAIL
SCALE: 1/2" = 1'-0"



BITUMINOUS CONCRETE ROADWAY &
DRIVEWAY PATCH TYPICAL TRENCH DETAIL
CROSSING ABOVE AN EXISTING UTILITY
SCALE: 1/2" = 1'-0"



BITUMINOUS CONCRETE
ROADWAY & DRIVEWAY PATCH
TYPICAL TRENCH DETAIL
SCALE: 1/2" = 1'-0"



BITUMINOUS CONCRETE
ROADWAY & DRIVEWAY PATCH
TYPICAL TRENCH DETAIL
SCALE: 1/2" = 1'-0"

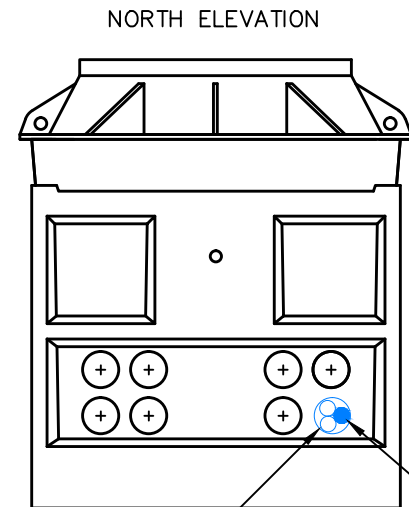
SIENA ENGINEERING GROUP, INC.
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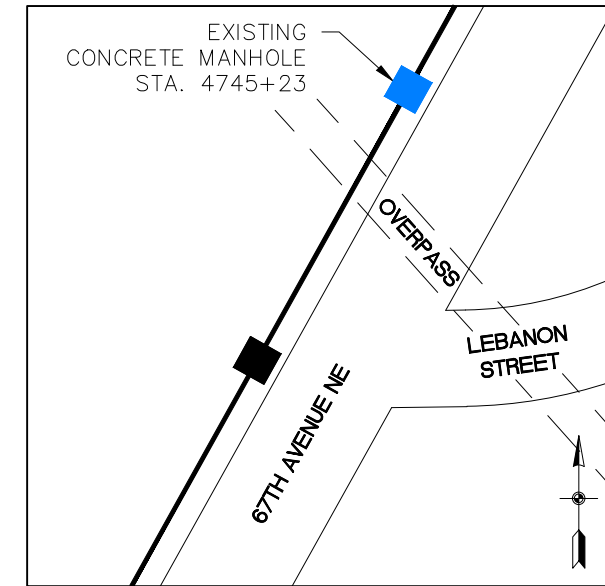
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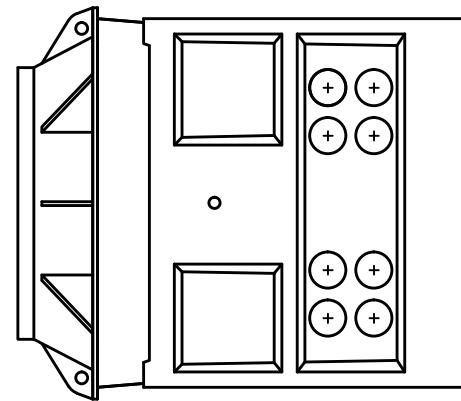
NORTH ELEVATION

(1) 4" PVC TO CONCRETE MANHOLE AT STA. 4730+72

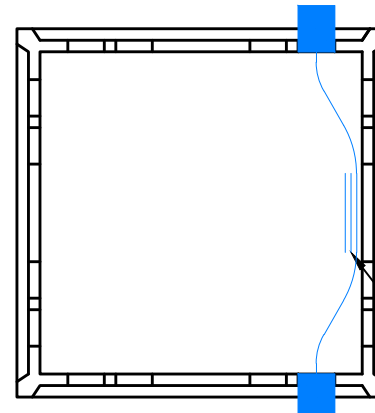
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



Locus Map
Not to Scale

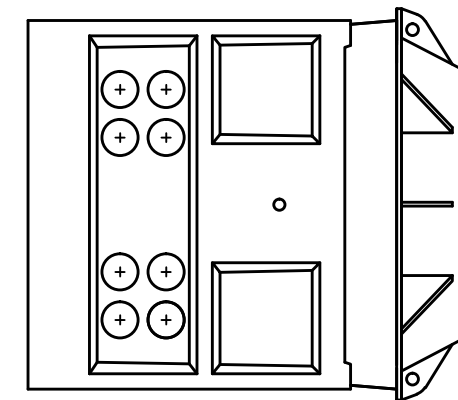


WEST ELEVATION



PLAN VIEW
NOT TO SCALE

FIBER CABLE & 30' SLACK COIL ON RACKING

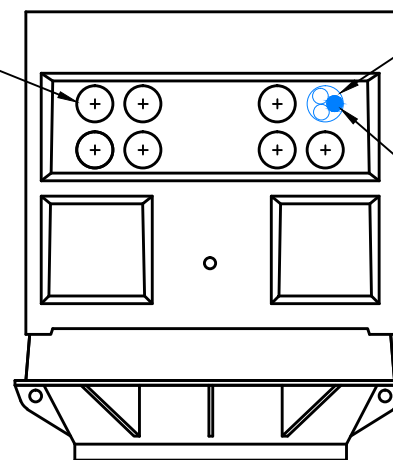


EAST ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4746+71

4 3/4" DIA. KNOCKOUT (TYP.)

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



SOUTH ELEVATION

EXISTING CONCRETE MANHOLE
4'x4'x5'
STA. 4745+23
NOT TO SCALE

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SPECIFICATION WR-34105
PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4745+23

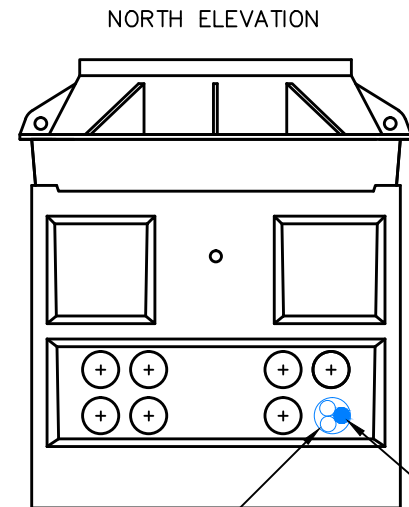
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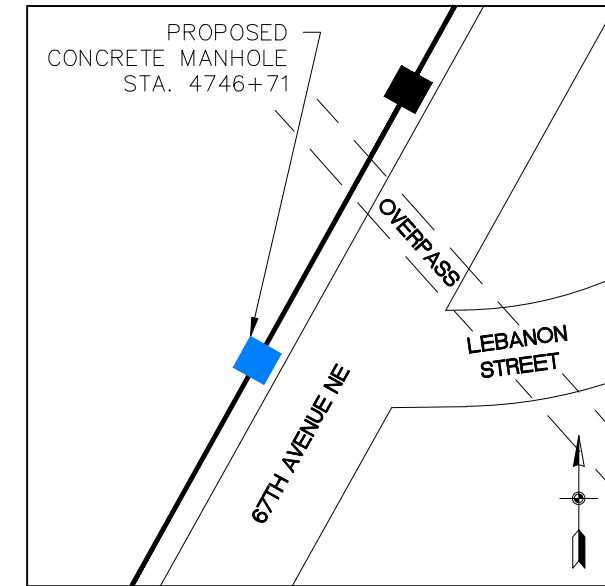
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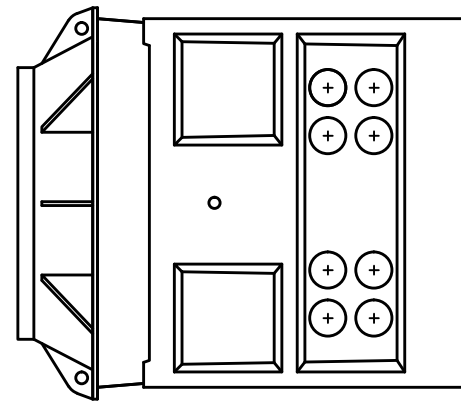
NORTH ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4745+23

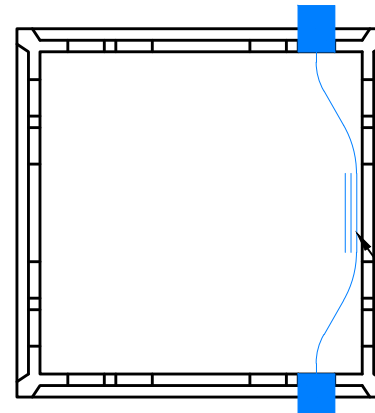
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



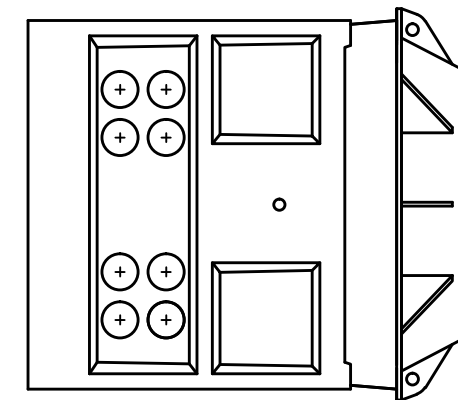
Locus Map
Not to Scale



WEST ELEVATION

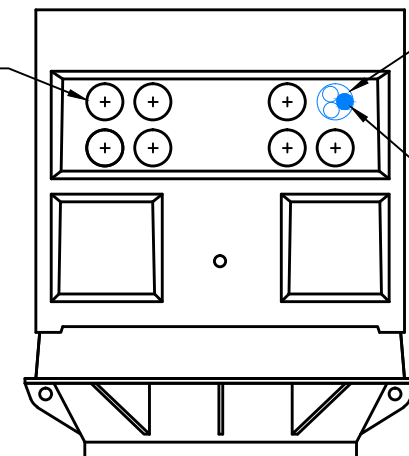


PLAN VIEW
NOT TO SCALE



EAST ELEVATION

FIBER CABLE & 30' SLACK COIL ON RACKING



SOUTH ELEVATION

4 3/4" DIA. KNOCKOUT (TYP.)

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4754+19

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE

PROPOSED CONCRETE MANHOLE
4'x4'x4' (444-LA)
STA. 4746+71
NOT TO SCALE

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SPECIFICATION WR-34105
PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4746+71

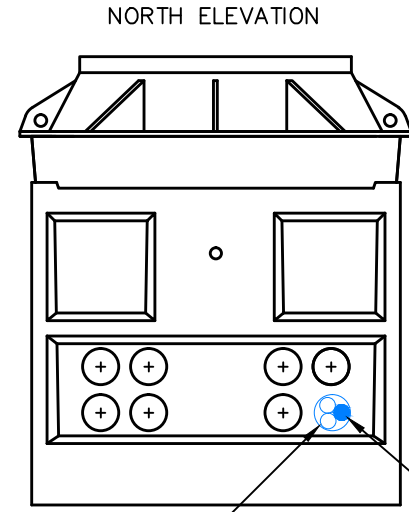
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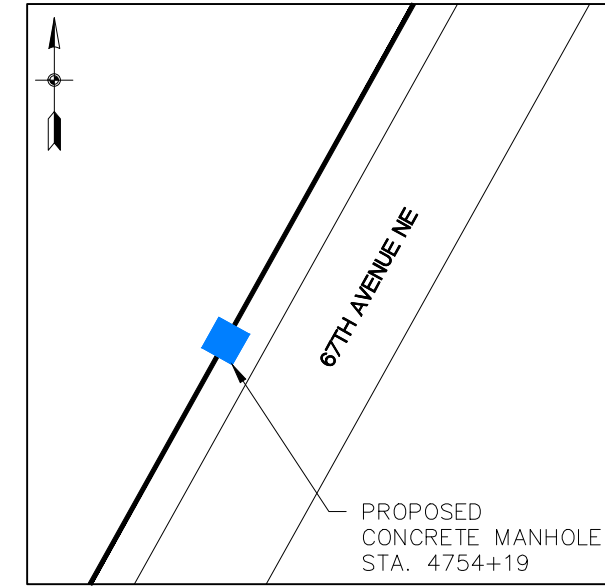
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NORTH ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4746+71

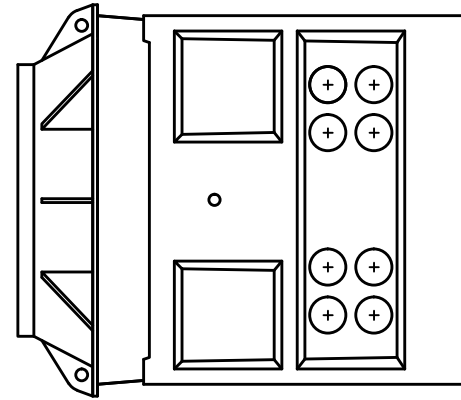
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



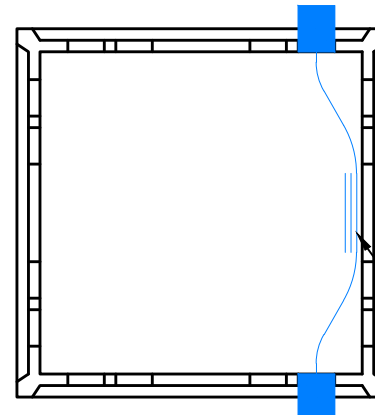
Locus Map

Not to Scale

PROPOSED CONCRETE MANHOLE STA. 4754+19

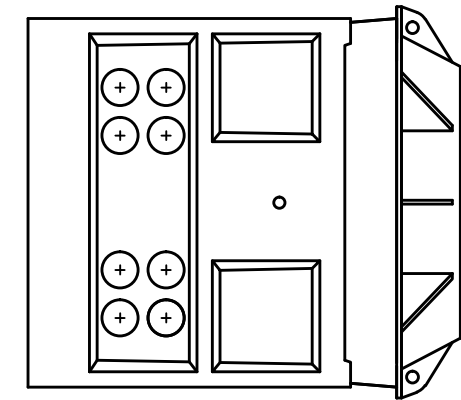


WEST ELEVATION



PLAN VIEW NOT TO SCALE

FIBER CABLE & 30' SLACK COIL ON RACKING

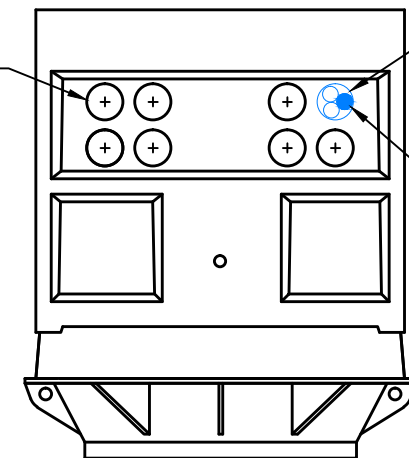


EAST ELEVATION

4 3/4" DIA. KNOCKOUT (TYP.)

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4762+26

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



SOUTH ELEVATION

PROPOSED CONCRETE MANHOLE
4'x4'x4' (444-LA)
STA. 4754+19
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SPECIFICATION WR-34105
PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4754+19

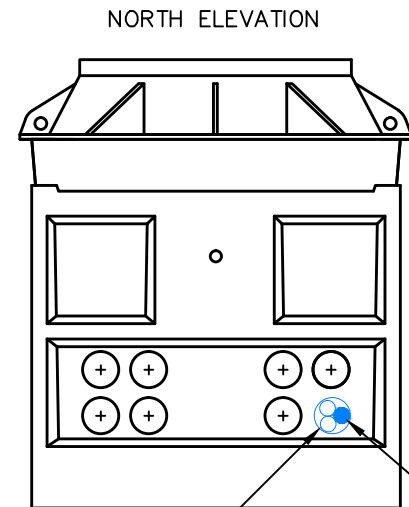
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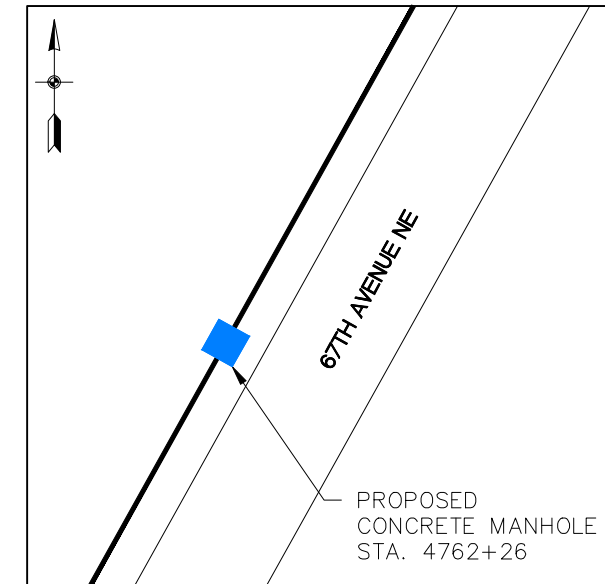
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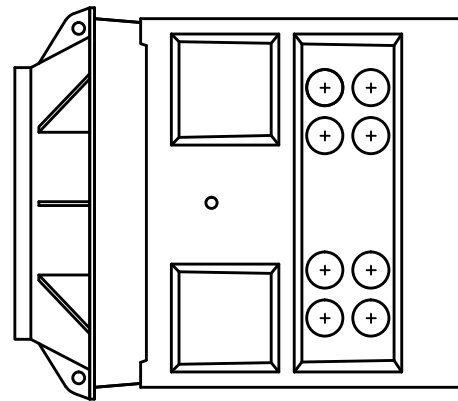
NORTH ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4754+19

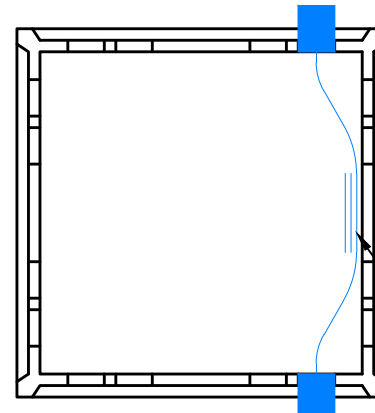
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



Locus Map
Not to Scale

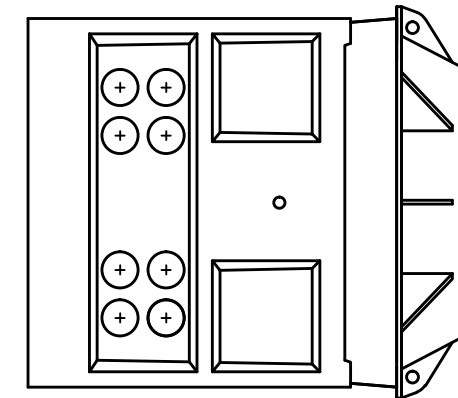


WEST ELEVATION



PLAN VIEW
NOT TO SCALE

FIBER CABLE & 30' SLACK COIL ON RACKING

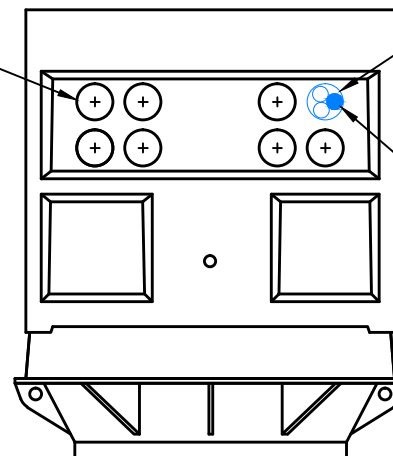


EAST ELEVATION

4 3/4" DIA. KNOCKOUT (TYP.)

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4772+07

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



SOUTH ELEVATION

PROPOSED CONCRETE MANHOLE
4'x4'x4' (444-LA)
STA. 4762+26
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PROJECT NUMBER 8613972

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CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4762+26

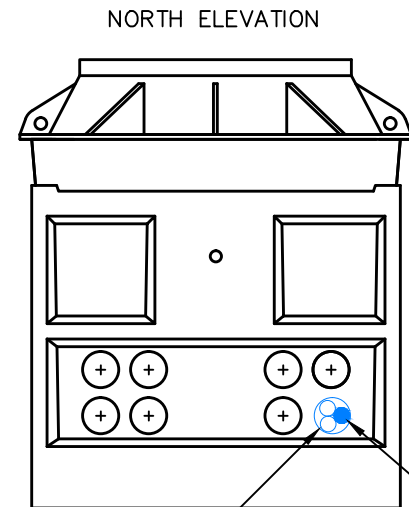
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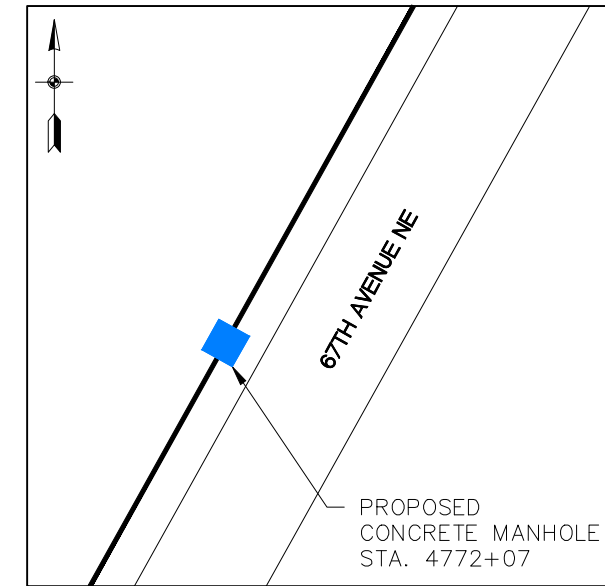
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NORTH ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4762+26

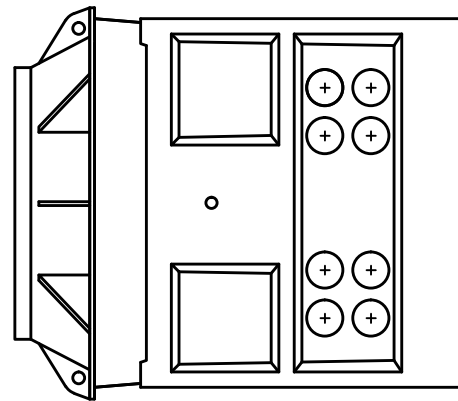
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



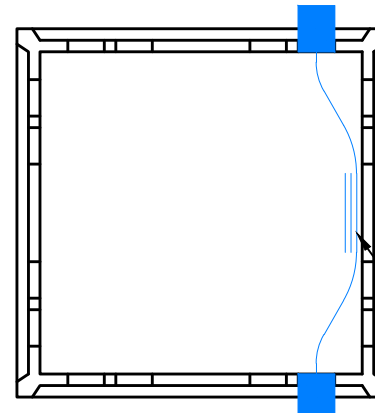
Locus Map

Not to Scale

PROPOSED CONCRETE MANHOLE STA. 4772+07

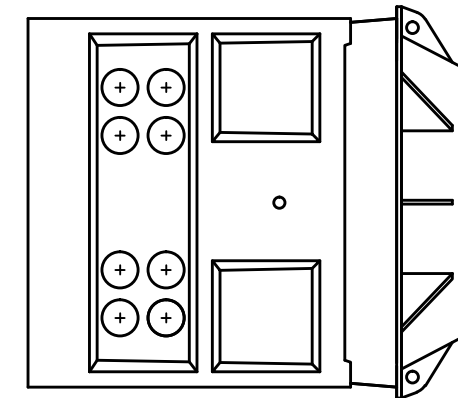


WEST ELEVATION



PLAN VIEW NOT TO SCALE

FIBER CABLE & 30' SLACK COIL ON RACKING

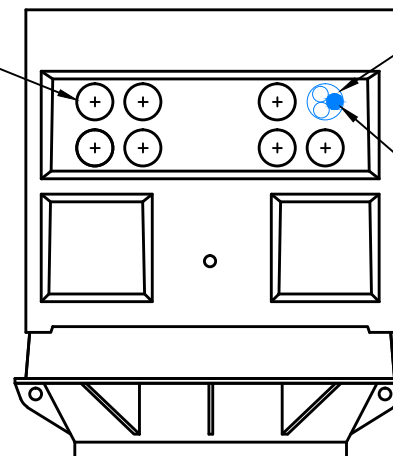


EAST ELEVATION

4 3/4" DIA. KNOCKOUT (TYP.)

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4781+29

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



SOUTH ELEVATION

PROPOSED CONCRETE MANHOLE
4'x4'x4' (444-LA)
STA. 4772+07
NOT TO SCALE

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PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4772+07

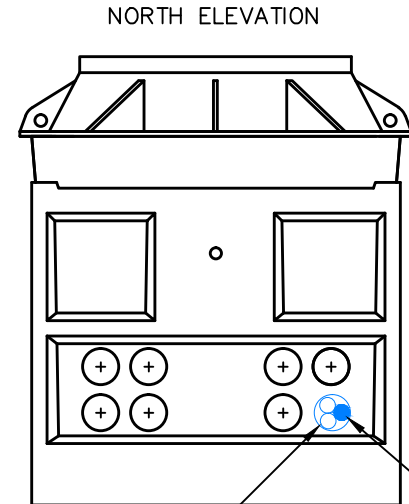
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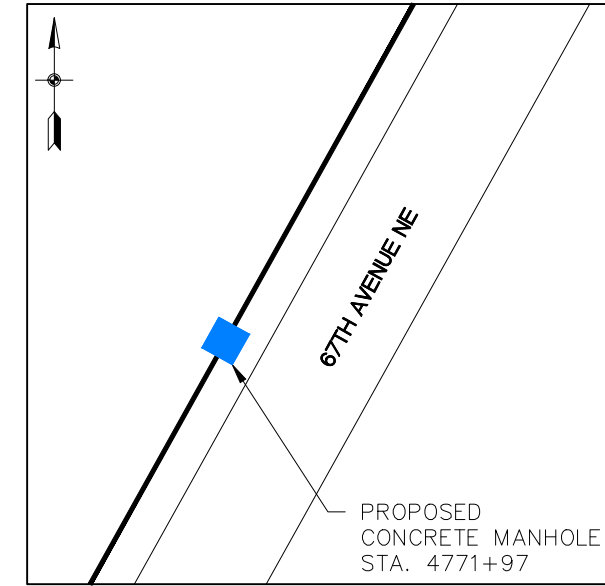
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NORTH ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4772+07

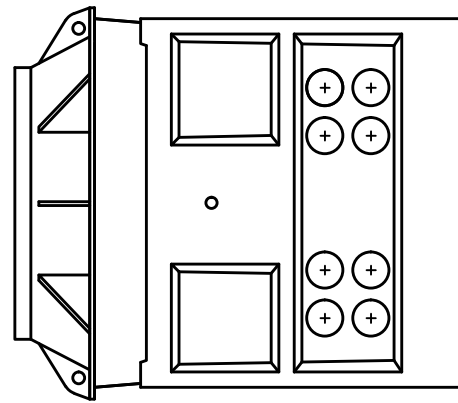
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



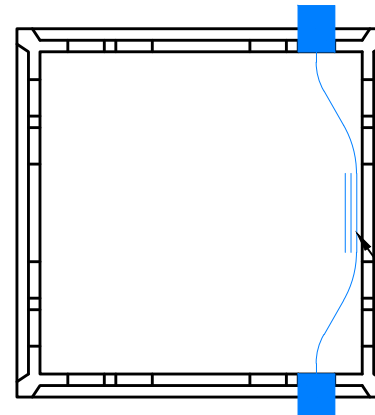
Locus Map

Not to Scale

PROPOSED CONCRETE MANHOLE STA. 4771+97

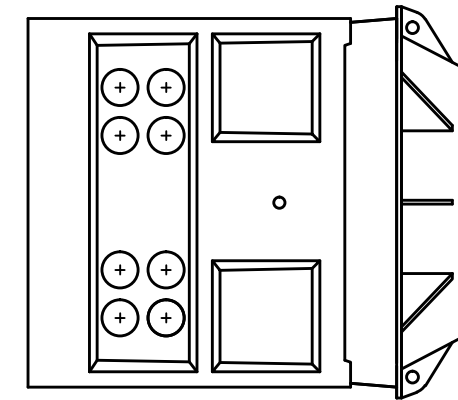


WEST ELEVATION



PLAN VIEW NOT TO SCALE

FIBER CABLE & 30' SLACK COIL ON RACKING

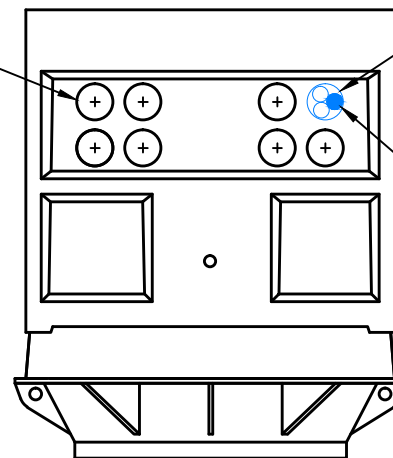


EAST ELEVATION

4 3/4" DIA. KNOCKOUT (TYP.)

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4787+65

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



SOUTH ELEVATION

PROPOSED CONCRETE MANHOLE
4'x4'x4' (444-LA)
STA. 4781+29
NOT TO SCALE

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SPECIFICATION WR-34105
PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD
LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4781+29

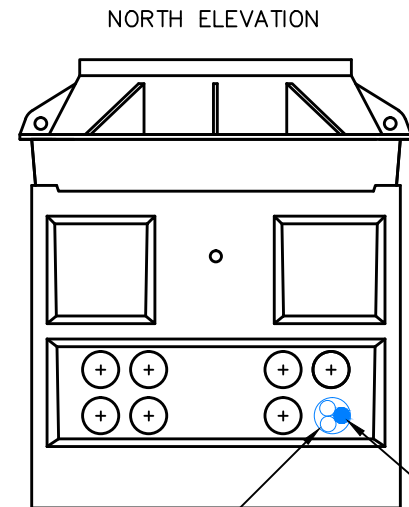
DT013

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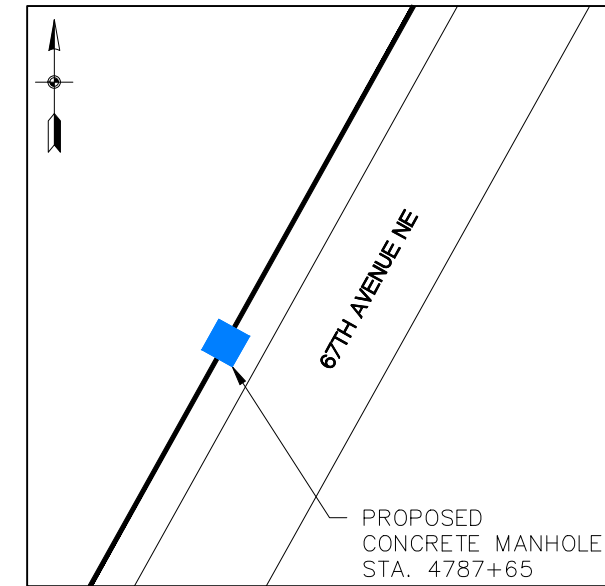
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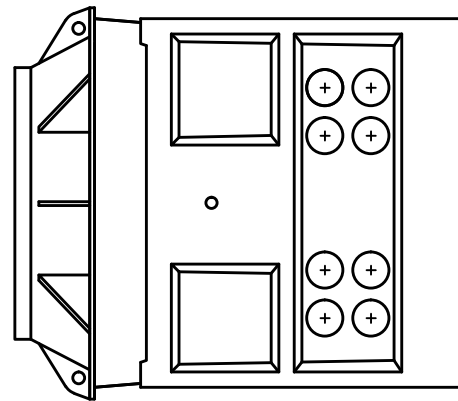
NORTH ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4781+29

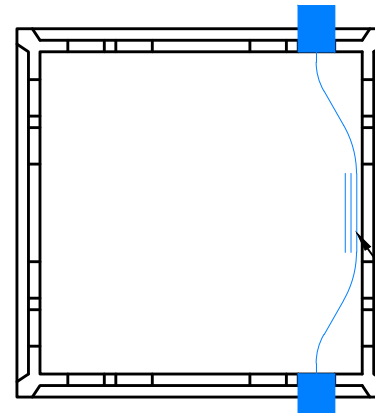
#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



Locus Map
Not to Scale

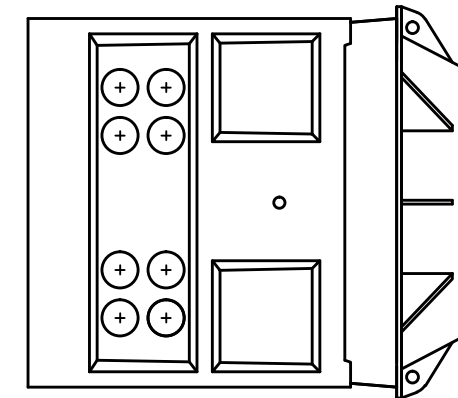


WEST ELEVATION



PLAN VIEW
NOT TO SCALE

FIBER CABLE & 30' SLACK COIL ON RACKING

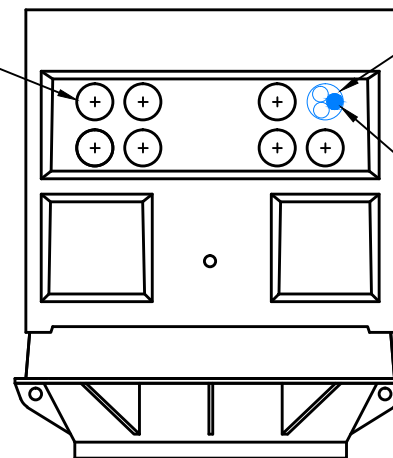


EAST ELEVATION

(3) 2" HDPE TO CONCRETE MANHOLE AT STA. 4794+10

4 3/4" DIA. KNOCKOUT (TYP.)

#6 TO GROUND ROD AND GROUND COIL IN MANHOLE



SOUTH ELEVATION

PROPOSED CONCRETE MANHOLE
4'x4'x4' (444-LA)
STA. 4787+65
NOT TO SCALE

SIENA ENGINEERING GROUP, INC.
C:\temp\AcPublish_5196\12-70600 67th Avenue Bid Issue.dwg
Jul 19, 2012 - 9:02am by jconnor

REVISIONS:
1. JULY 19, 2012 BID ISSUE

NOTES:



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Washington Utilities
Coordinating Council
1-800-424-5555

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PREPARED FOR RECORD

APPROVED FOR OUTSIDE PLANT _____ ENGINEER _____ DATE _____



PROPRIETARY

USE PURSUANT TO COMPANY INSTRUCTIONS

SPECIFICATION WR-34105

PROJECT NUMBER 8613972

OWNERSHIP: 100% ISD

LINE CODE:

CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4787+65

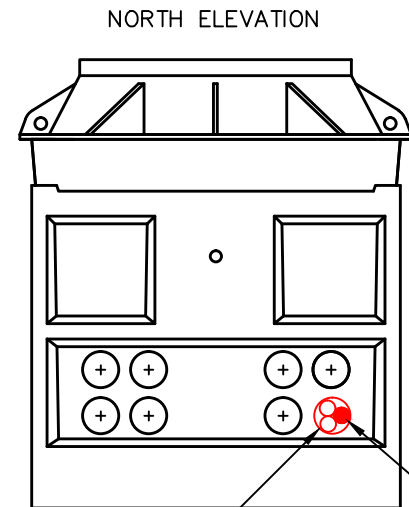
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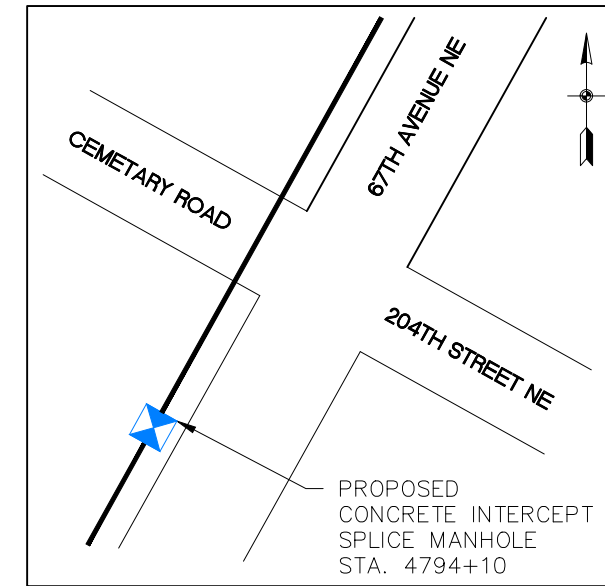
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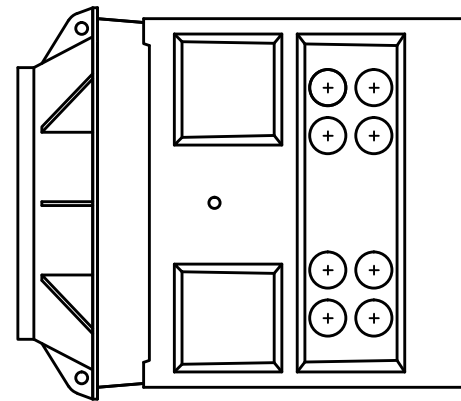
NORTH ELEVATION

(1) 4" MULTICELL W/
(3) 1.5" INNERDUCTS
TO CONCRETE MANHOLE AT
STA. 170+68

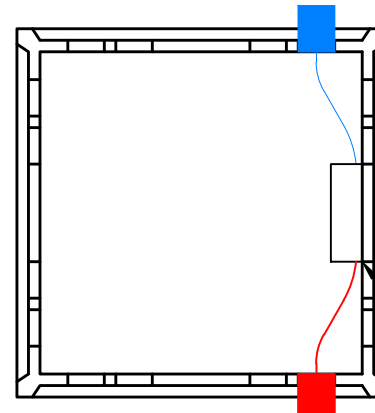
#6 TO GROUND ROD
AND GROUND COIL
IN MANHOLE



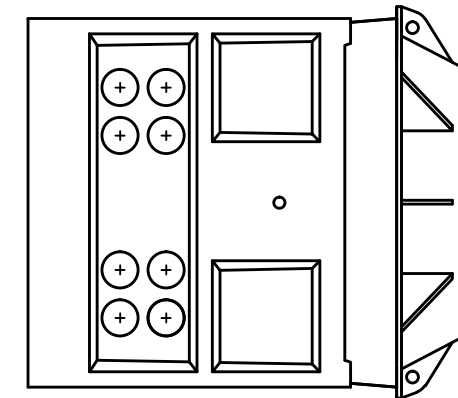
Locus Map
Not to Scale



WEST ELEVATION



PLAN VIEW
NOT TO SCALE



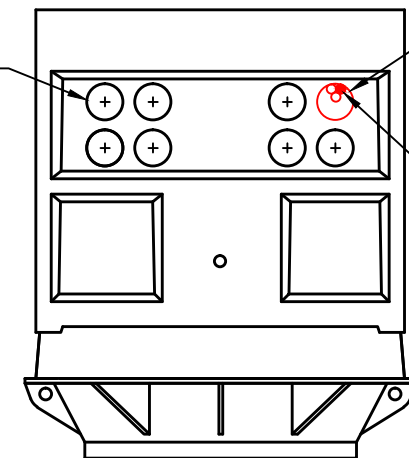
EAST ELEVATION

SPLICE CASE W/
50' SLACK COIL (EACH SIDE)

(1) 4" PVC W/
(3) 1" INNERDUCTS
TO CONCRETE MANHOLE AT
STA. 4811+14

4 3/4" DIA.
KNOCKOUT
(TYP.)

#6 TO GROUND ROD
AND GROUND COIL
IN MANHOLE



SOUTH ELEVATION

PROPOSED CONCRETE
INTERCEPT SPLICE MANHOLE
4'x4'x5' (38Y-SHORT)
STA. 4794+10
NOT TO SCALE

SIENA ENGINEERING GROUP, INC.
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Jul 19, 2012 - 9:02am by jconnor

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PREPARED FOR RECORD

APPROVED FOR OUTSIDE PLANT _____ DATE _____
ENGINEER _____



PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS
SPECIFICATION WR-34105
PROJECT NUMBER 8613972

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LINE CODE:
CABLE CLLI: BLANWU0010

SCALE: AS NOTED

67TH AVENUE NE
WHALLEY, BC
TO EVERETT, WA

BUTTERFLY DIAGRAM
STA. 4794+02

DT015

