

The map displays the project area in Lee's Summit, Missouri. The project route is highlighted in red, starting at the intersection of Bannister Rd and NW Pryor Rd, and ending at the intersection of NW Colbern Rd and NW Blue Pkwy. The route is divided into two sections, labeled 'SHEET 3' and 'SHEET 4'. The project start and end points are marked with red arrows and the text 'PROJECT BEGIN' and 'PROJECT END'. The map shows various streets including Bannister Rd, NW Pryor Rd, NW Blue Pkwy, NW Colbern Rd, and NW Blue Pkwy. Landmarks such as Lee's Summit Physicians Group - Pediatrics, Austin Hardware, and the Nature Trail At Unity Village are also visible. The map includes a scale bar and a north arrow.

E22148M1 COLBURN RD RELO LSMO

MATTHEW HARDING
CONSTRUCTION SUPERVISOR
816-400-8383
MATTHEW.HARDING@UPNFIBER.COM

<u>WORK PLAN INDEX</u>	
SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES/LEGEND
3-4	DESIGN PLAN SHEETS
5-15	CROSS SECTIONS DETAILS
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17	FINAL QUANTITIES



PE Stamp & Approval

[illegible]

COVER SHEET

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

2022

Drawn by: _____ AFV
 Checked by: _____ DAH
 Approved by: _____ CRG
 Project no.: _____ project no.:
 Drawing no.: _____ UPN-5
 Date: _____ 4/25/2022

SHEET
OF 16

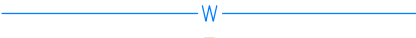
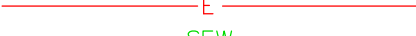


Know what's below.
Call before you dig.



NOT TO SCALE

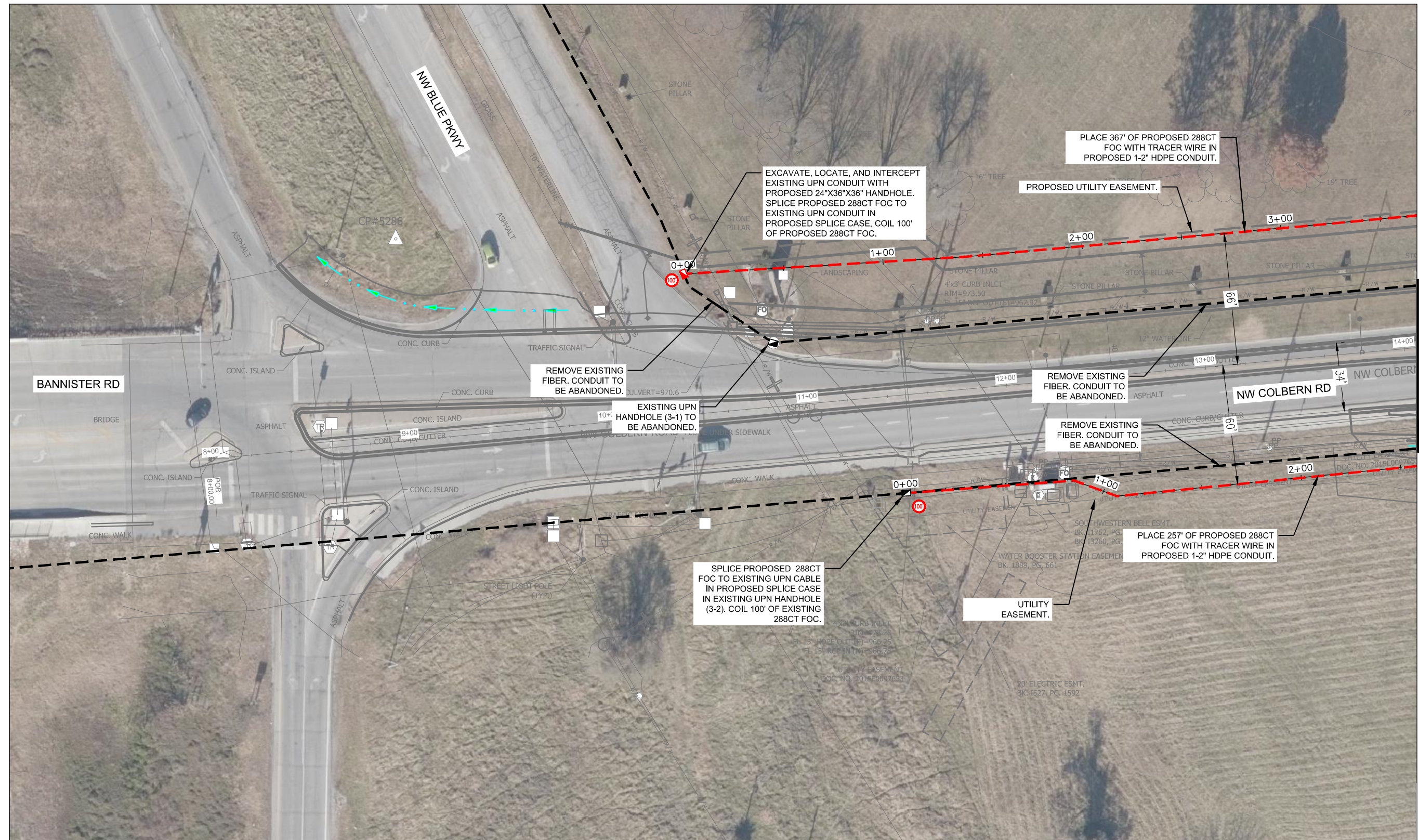
LEGEND-KEY

	UTILITY POLE		GAS
	UTILITY MANHOLE		WATER
	UTILITY HANDHOLE		TELEPHONE
	TELEPHONE PED - CROSS BOX		ELECTRIC
	EXISTING MANHOLE		SANITARY SEWER (SEW)
	EXISTING HANDHOLE		STORM SEWER
	EXISTING COIL		FENCE
	EXISTING AERIAL COIL		CABLE TV
	EXISTING DOWN GUY		STEAM
	EXISTING SPLICE POINT		OIL
	TREE		UNKNOWN UTILITY
	PROPOSED MANHOLE		RIGHT OF WAY
	PROPOSED HANDHOLE		EDGE OF PAVEMENT
	PROPOSED COIL		EXISTING CONDUIT
	PROPOSED AERIAL COIL		EXISTING AERIAL FIBER
	PROPOSED DOWN GUY		EXISTING STRAND
	PROPOSED SPLICE POINT		PROPOSED CONDUIT
	PROPOSED FIBER DISTRIBUTION PANEL		PROPOSED AERIAL FIBER
	PROPOSED BORE PIT		PROPOSED STRAND
	PROPOSED PULL BOX		
R/L	PROPOSED RUNNING LINE		
F/L	FLOW LINE		
FOC	FIBER OPTIC CABLE		
EOP	EDGE OF PAVEMENT		
	CUT & RESTORE CONC./ASPH.		
	INLET		
	INLET GRATE		

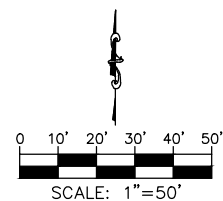
1. CONTRACTOR MUST OBTAIN LOCATES PRIOR TO ANY TYPE OF EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY REQUIRED PERMITS PERTAINING TO ALL ASPECTS OF THE PROJECT AND MUST HAVE THE APPROPRIATE PERMITS AT THE JOB SITE.
3. ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH OF 36" IN UNPAVED AREAS AND 48" MINIMUM BELOW STREETS AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK.
5. PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.
6. ALL WORK IS TO BE IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.
7. CONTRACTORS ARE ADVISED TO CONTACT UPN FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.
8. ANY FIELD ADJUSTMENTS TO THE PROPOSED PLAN MUST BE APPROVED BY AN APPROPRIATE UPN REPRESENTATIVE.
9. BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE THE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
10. OLSSON ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL) OR RIGHT-OF-WAY LOCATION. THE EXISTING UTILITIES AND RIGHT-OF-WAY SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE. IT IS HOWEVER , THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES AND RIGHT-OF-WAY PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.



DWG: F:\PROJECTS\013-2392-c\40-design\AutoCAD\final plans\Sheets\TLCM\unit-5 colbern road construction\Final Plans\UPN-5 Colbern Road Construction_final plans.dwg
DATE: Apr 25, 2022 9:34am XREFS: UPN-5 Colbern Road Construction_base CCR_CTS_MAIN_copy USER: rschultz

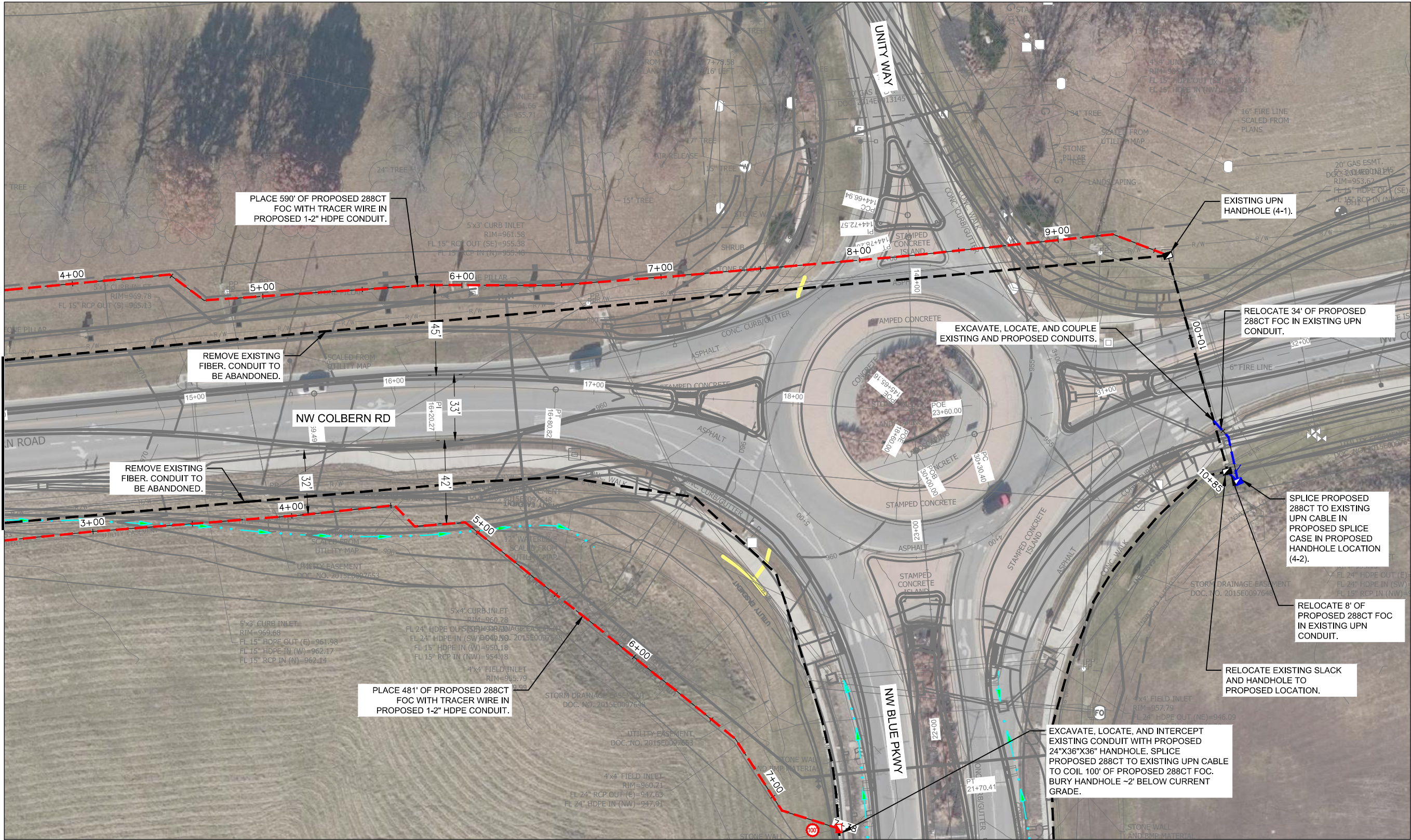


E22148M1 COLBURN RD RELO LSMO

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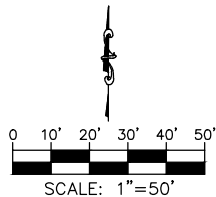
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MATCH TO SHEET 3



 PROPOSED HANDHOLE LOCATION

E22148M1 COLBURN RD RELO LSMO





7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
FAX 913.381.1174
www.olson.com



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REV. NO.	DATE	REVISIONS DESCRIPTION

PROJECT SHEET	REVISIONS
COLBURN ROAD CONSTRUCTION	2022
LEE'S SUMMIT, MO	

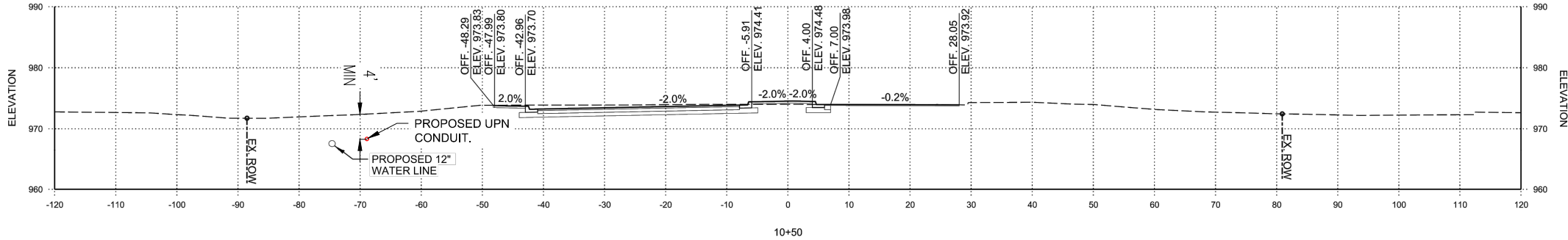
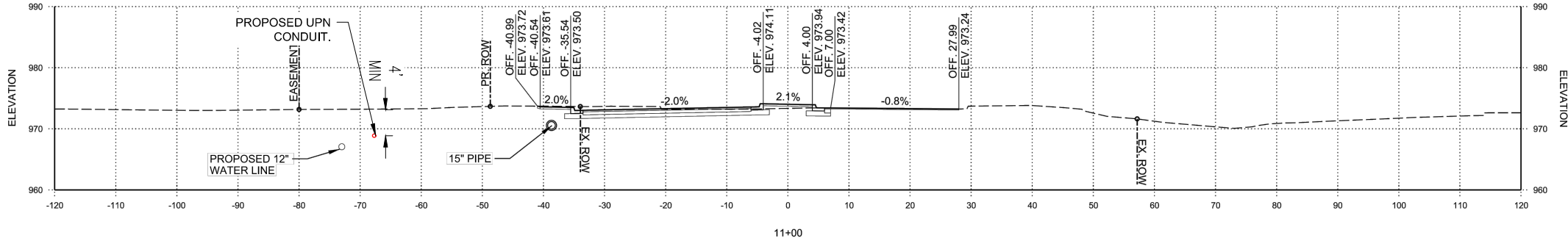
drawn by: AFV	checked by: DAI
approved by: CRG	project no.: UPN-5
drawing no.: 4/25/2022	date:

SHEET

4 OF 16

CROSS SECTIONS

COLBURN ROAD



E22148M1 COLBURN RD RELO LSMO

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also

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TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

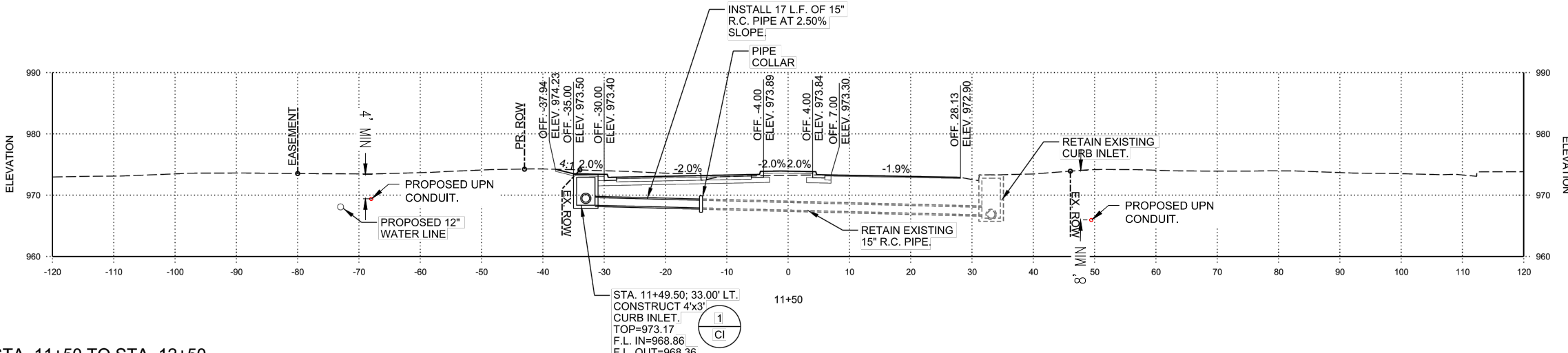
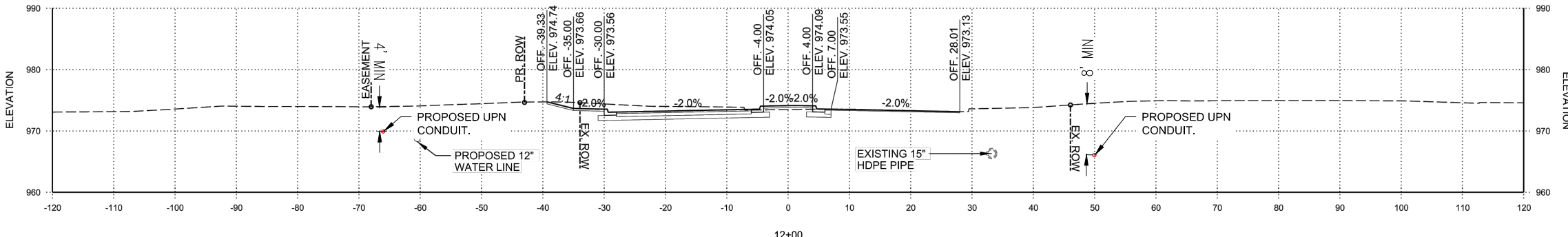
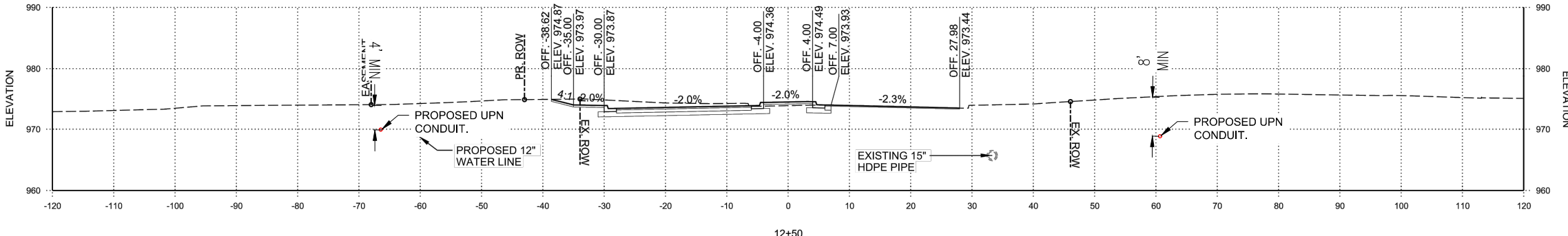
2022

drawn by: _____ AFV
checked by: _____ DAH
approved by: _____ CRG
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SHEET
5 OF 16

CROSS SECTIONS

COLBERN ROAD



STA. 11+50 TO STA. 12+5

E22148M1 COLBURN RD RELO LSMO

nos|

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TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

2022

drawn by: _____ AFB
checked by: _____ DAH
approved by: _____ CRG
project no.: _____ project no.: _____
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date: 4/25/2022

SHEET
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$\mathbb{C}_L$

Profile view of the proposed water line. The vertical axis represents ELEVATION (960 to 990) and the horizontal axis represents STATIONING (120+00 to 130+00). The profile shows a dashed line for the proposed water line and a solid line for the existing 15" HDPE pipe. Key features include:

- PROPOSED UPN CONDUIT:** Indicated by arrows pointing to the proposed water line at stations 126+50 and 129+50.
- PROPOSED 12" WATER LINE:** Indicated by an arrow pointing to the proposed water line at station 127+00.
- EXISTING 15" HDPE PIPE:** Indicated by an arrow pointing to the existing pipe at station 128+50.
- Offsets and Elevations:**
 - Station 126+50: ELEV. 973.95, OFF. -39.95, ELEV. 974.60
 - Station 127+00: ELEV. 973.36, OFF. -35.00, ELEV. 973.26
 - Station 127+50: ELEV. 973.76, OFF. -4.00, ELEV. 973.74
 - Station 128+00: ELEV. 973.74, OFF. -4.00, ELEV. 973.74
 - Station 128+50: ELEV. 973.19, OFF. 7.00, ELEV. 972.81
 - Station 129+00: ELEV. 972.81, OFF. 28.04, ELEV. 972.81
- Slopes:** -2.0%, -2.0%, 2.0%, -1.8%
- Labels:** EASEMENT, MIN, EX. ROW, PB. ROW, MIN, EX. ROW, PROPOSED UPN CONDUIT, PROPOSED 12" WATER LINE, EXISTING 15" HDPE PIPE, MIN, EX. ROW, PROPOSED UPN CONDUIT.

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TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

2022

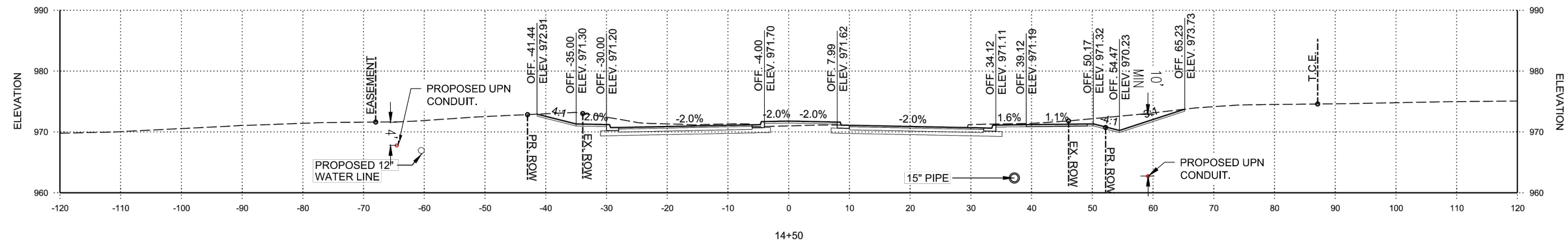
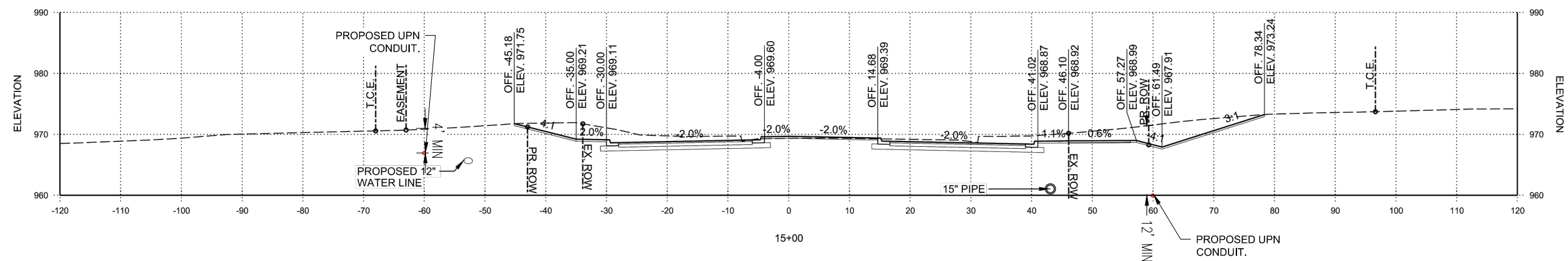
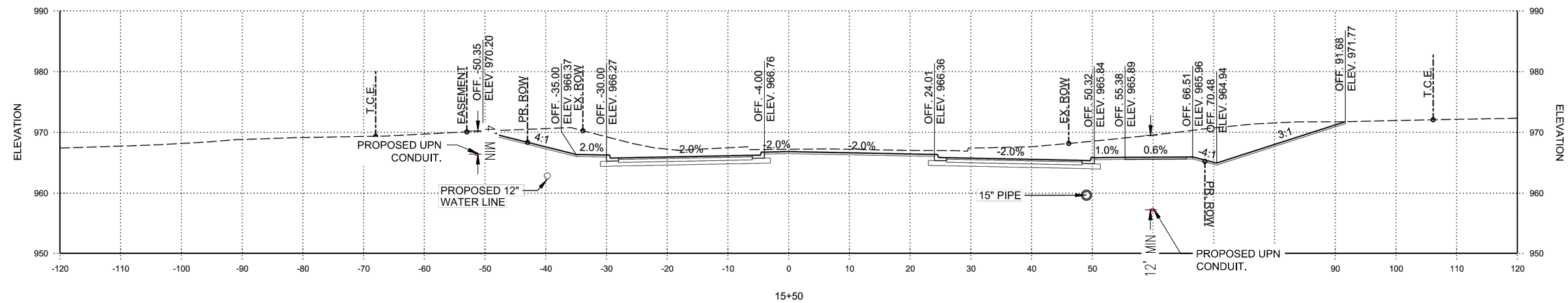
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SHEET
OF 16

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COLBERN ROAD



STA. 14+50 TO STA. 15+50

E22148M1 COLBURN RD RELO LSMO

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TYPICAL DETAILS

CULBERN ROAD CONSTRUCTION

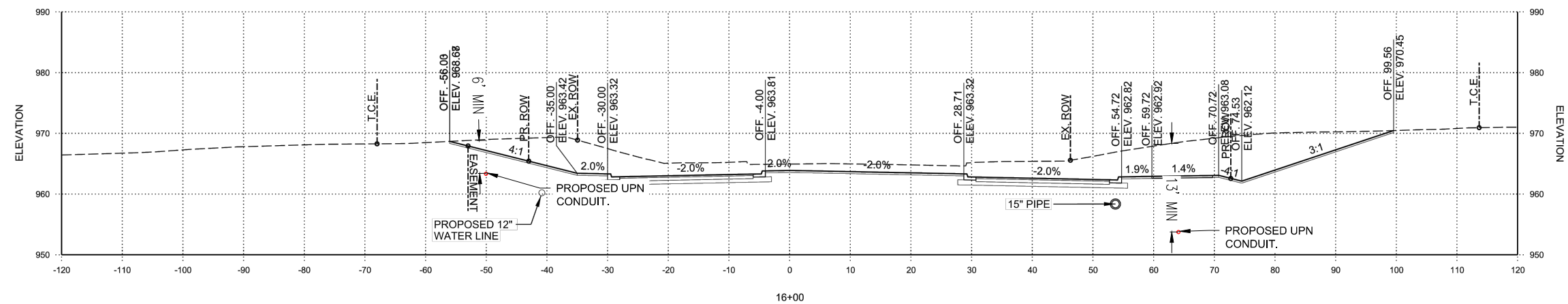
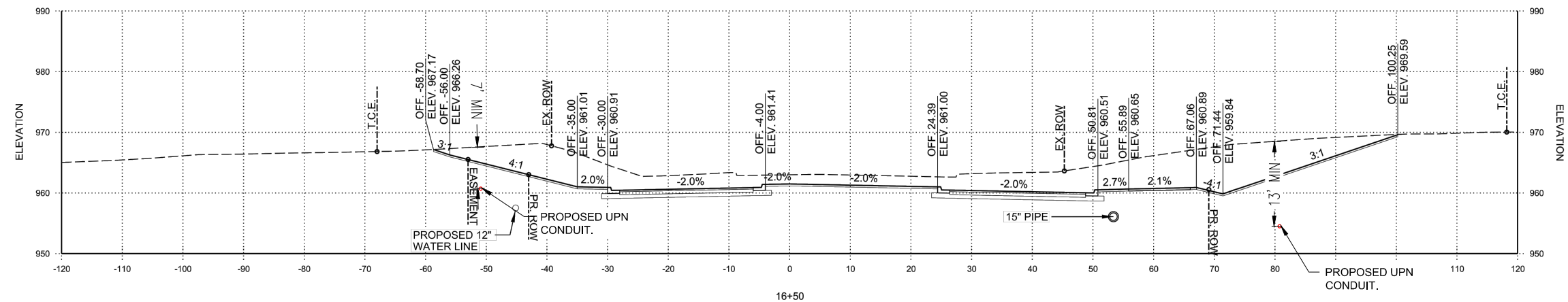
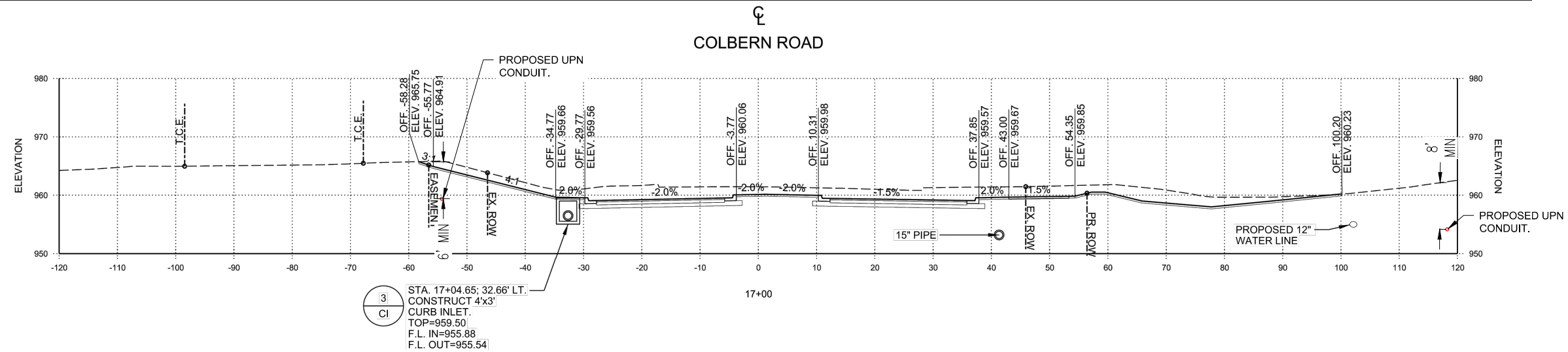
LEE'S SUMMIT, MO

2022

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SHEET
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CROSS SECTIONS



STA. 16+00 TO STA. 17+00

E22148M1 COLBURN RD RELO LSMO

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TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

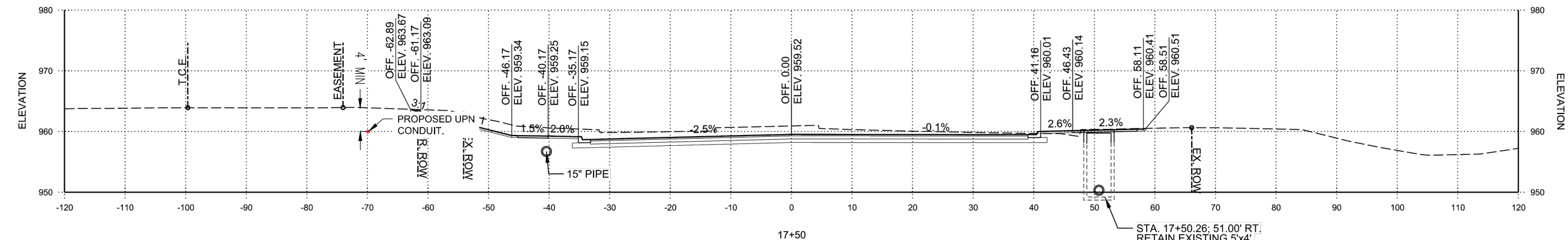
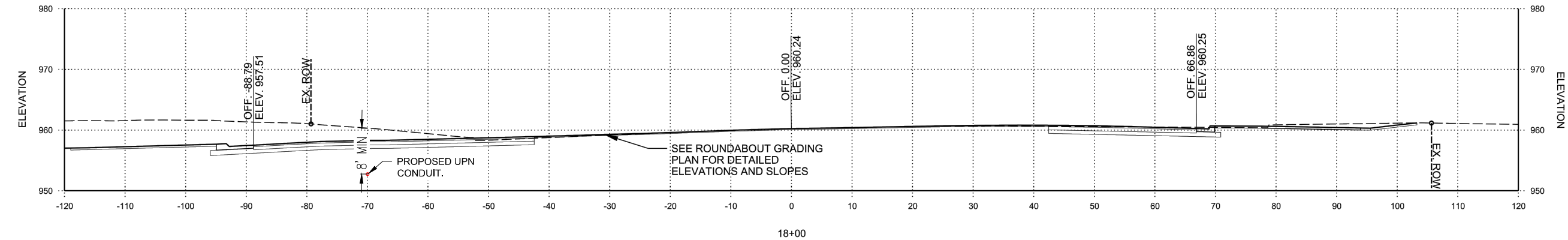
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CROSS SECTIONS

COLBERN ROAD



STA. 17+50 TO STA. 18+00

E22148M1 COLBURN RD RELO LSMO

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REV. NO.	DATE	REVISIONS DESCRIPTION

TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

2022

drawn by:

checked by:

approved by:

project no.:

drawing no.:

date:

SHEET

10 OF 16

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Overland Park, KS 66213-4750
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com



STA. 17+50.26; 51.00' RT.
RETAIN EXISTING 5'x4'
CURB INLET AND CONVERT TO
JUNCTION BOX. RECONSTRUCT
TOP AT PROPOSED GRADE.
TOP=959.24
F.L. IN (EX. HDPE)=949.58
F.L. IN (EX. R.C.P.)=954.18
F.L. IN (P.P.)=949.95
F.L. OUT=949.70

PROPOSED UPN
CONDUIT.

- EXISTING
GRADE

PROPOSED
GRADE
10 YEAR STORM
HGL

RETAIN EXISTING
24" HDPE PIPE.

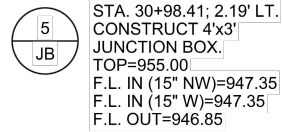
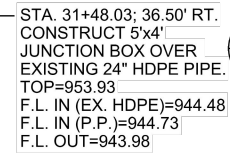
RETAIN EXISTING
FIELD INLET.

E22148M1 COLBURN RD RELO LSMO

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TYPICAL DETAILS	
COLBERN ROAD CONSTRUCTION	
LEE'S SUMMIT, MO	2022

COLBERN ROAD



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TECHNICAL DETAILS

CULBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

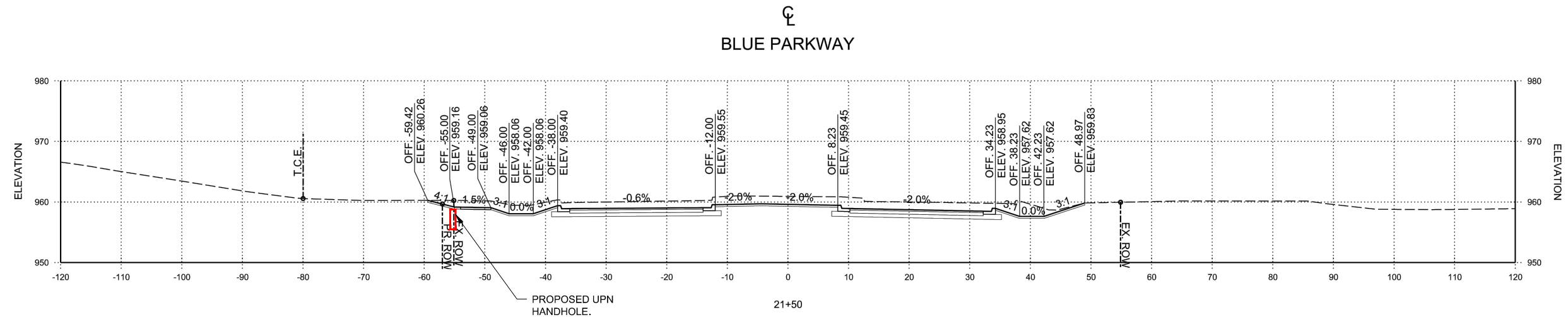
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 Checked by: DAH
 Approved by: CRG
 Project no.: project no.:
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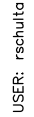
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TYPICAL DETAILS	
COLBURN ROAD CONSTRUCTION	
LEE'S SUMMIT, MO	2022

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CL
BLUE PARKWAY



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also



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TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

2022

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SHEET
4 OF 16

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TYPICALS

PCA243636-00006

PCX POLYMER CONCRETE ASSEMBLY

24" x 36" x 36"
(For actual dimensions see drawing)

Polymer Concrete Assembly, Straight Sides, No Floor, WUC 3.6, ANSI/SCTE 77 - "T15/20K," 3/8" Hex Bolts, Standard Nameplate (Specify at time of order) Installed

LOAD RATINGS

Incidental Traffic - Parking Lot, Sidewalk

Conforms to:

- WUC 3.6
- ASTM C 857
- ANSI/SCTE 77

FEATURES:

- Drop-in nameplate
- Shipped assembled
- Skid resistant cover
- Stainless steel bolts
- Cast-in floating nut box
- Integral drain holes

Additional product information continued on the reverse

newbasis

Composites for Infrastructure

2626 Kansas Avenue
Riverside, California 92507

951.787.0600

951.787.0632 (fax)

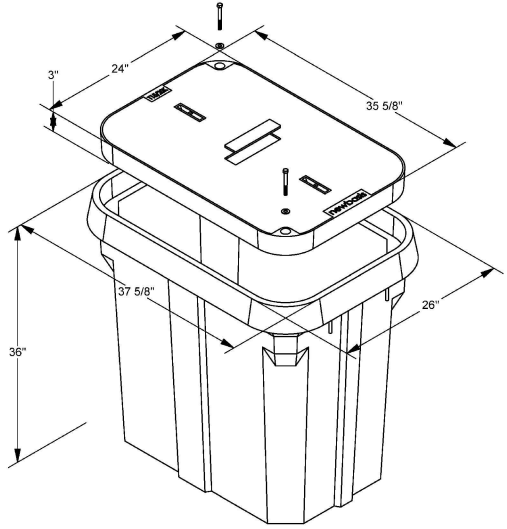
info@newbasis.com

newbasis.com

PCX

POLYMER CONCRETE

The Next Generation



Inside Dimensions

Length	Width	Depth
33 9/16"	21 15/16"	33"
27 1/8"	15 1/2"	

Rev: C.0

PCA243636-00006

PCX POLYMER CONCRETE ASSEMBLY

PCX

POLYMER CONCRETE

The Next Generation

newbasis

Composites for Infrastructure

Polymer Concrete Assembly, Straight Sides, No Floor, WUC 3.6, ANSI/SCTE 77 - "T15/20K," 3/8" Hex Bolts, Standard Nameplate (Specify at time of order) Installed

24" x 36" x 36" For actual dimensions, see drawing on front side.

AVAILABLE OPTIONS

☐ Tier 22 Load Rating

☐ Penta Bolts

☐ Telephone EMS

☐ Power EMS

☐ Custom Nameplate Installed

☐ Custom Nameplate Shipped Separately

☒ Standard Nameplate Installed

☐ Standard Nameplate Shipped Separately

☑ - Indicates a selected option

NAMEPLATES

One standard nameplate included with each assembly, installed at the factory or easily installed in the field. Custom nameplates are available. Contact customer service.

Standard Nameplates

- Electric
- Telephone
- Fiber Optic
- Water
- Street Lighting
- Broadband
- Traffic
- CATV
- Traffic Signal
- Communications

LIFT PIN FOR HAND HOLE COVER HOOK (NEWBASIS P/N: 0701 OR EQUIVALENT)

NAMEPLATE LOCATION

LIFTING BOLTS TO ACCOMMODATE LIFTING STRAPS

RFID SMART TAG INSIDE BOX

OPEN BOTTOM

MATERIAL PROPERTIES AND ATTRIBUTES

Compressive Strength

Polymer Concrete - 11500 PSI

Per ASTM D695

Flexural Strength

Polymer Concrete - 4000 PSI

Per ASTM D790

Coefficient of Friction (Dry)

1.085

Per ASTM C1028

Polymer Concrete

- Advanced composite: Very high strength to weight ratio
- Non-metallic
- Non-conductive
- UV Resistant
- High impact resistant
- Impervious to chemicals and moisture

Materials tested in accordance with ASTM D-543 and ASTM D-570

WEIGHTS AND SHIPPING

COVER WEIGHT: 98.0 lbs.

BOX WEIGHT: 239.9 lbs.

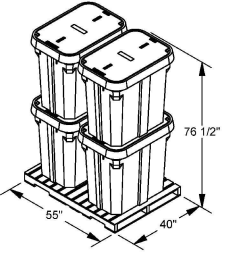
ASSEMBLY WEIGHT: 337.9 lbs.

LOADED PALLET WEIGHT: 1394 lbs.

Standard shipping includes van delivery of pallet quantities to the lower 48 states. Partial pallet quantities and flat bed shipping available at an additional cost.

PACKAGING (Steel Banding, Edge Protection)

PALLET QUANTITY: 4



Rev: C.0

olsson

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Unite

PRIVATE NETWORKS

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REVISIONS DESCRIPTION

DATE

REV. NO.

REVISIONS

TYPICAL DETAILS

COLBERN ROAD CONSTRUCTION

LEE'S SUMMIT, MO

2022

drawn by: AFV

checked by: DAH

approved by: CRG

project no.: UPN-5

drawing no.: 15

date: 4/25/2022

SHEET

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DWG: F:\PROJECTS\013-2392-c\40-design\AutoCAD\final plans\Sheets\TLCM\unit

TOTAL QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	ROD & PROOF EXISTING DUCT	LF	42
2.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	1695
3.	SUPPLY & INSTALL 2-2" HDPE DUCT	LF	
4.	SUPPLY & INSTALL 1-1.25" HDPE DUCT	LF	
5.	SUPPLY & INSTALL 2" PVC DUCT	LF	
6.	SUPPLY & INSTALL 4" PVC DUCT	LF	
7.	SUPPLY & INSTALL 2" RIGID STEEL ON A STRUCTURE	LF	
8.	SUPPLY & INSTALL 3-CELL MAXCELL	LF	
9.	SUPPLY & INSTALL TRACER WIRE	LF	1695
10.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	2
11.	SUPPLY & INSTALL UNDERGROUND SPLICE ENCLOSURE	EACH	4
12.	INSTALL 432CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	
13.	INSTALL 288CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	2137
14.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	
15.	LASH 432CT ARMORED FIBER OPTIC CABLE - AERIAL	LF	
16.	LASH 288CT ARMORED FIBER OPTIC CABLE - AERIAL	LF	
17.	LASH 96CT ARMORED FIBER OPTIC CABLE - AERIAL	LF	
18.	SUPPLY & INSTALL 6.6M STRAND	LF	
19.	SUPPLY & INSTALL FIBER SNOWSHOE	EACH	
20.	SUPPLY & INSTALL 2" PVC STAND OFF RISER	EACH	
21.	SUPPLY & INSTALL 4" PVC STAND OFF RISER	EACH	
22.	SUPPLY & INSTALL DOWN GUY AND ANCHOR	EACH	
23.	SUPPLY & INSTALL AERIAL SPLICE ENCLOSURE	EACH	
24.	SUPPLY & INSTALL 1" EMT CONDUIT	LF	
25.	SUPPLY & INSTALL 2" EMT CONDUIT	LF	
26.	SUPPLY & INSTALL 1" PLENUM RATED INNERDUCT	LF	
27.	SUPPLY & INSTALL WYE CAST CONNECTOR	EACH	
28.	SUPPLY & INSTALL LB	EACH	
29.	PROPOSED WALL CORE	EACH	
30.	INSTALL 24CT INDOOR/OUTDOOR RATED FIBER OPTIC CABLE - UNDERGROUND	LF	
31.	INSTALL 24CT INDOOR/OUTDOOR RATED FIBER OPTIC CABLE - AERIAL	LF	
32.	REMOVE & REPLACE SIDEWALK	SQ FT	
33.	REMOVE & REPLACE ASPHALT	SQ FT	
*	34. TRAFFIC PERMIT	AGENCIES	1
*	35. RIGHT OF WAY PERMIT	AGENCIES	1

* CITY, COUNTY, AND STATE.

E22148M1 COLBURN RD RELO LSMO

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FINAL QUANTITIES

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6 OF 16