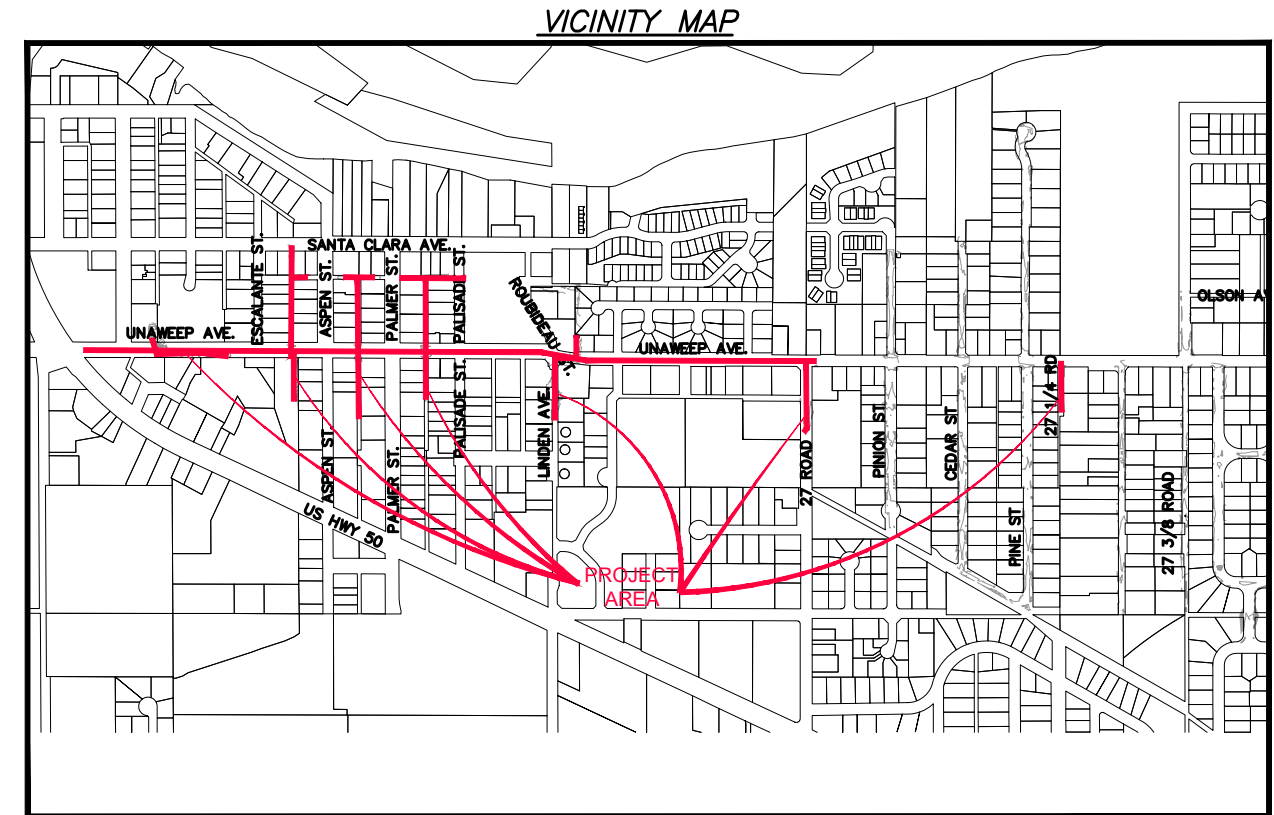
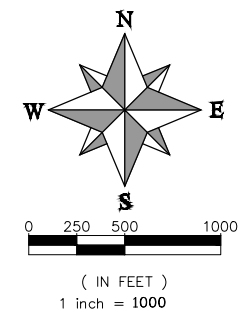


# 2021 SEWER LINE REPLACEMENT – PHASE A

1 — Cover Sheet	24 — Linden Ave P&P	Sta 82+00 — 84+00
2 — Standard Abbreviations, Legend and Symbols	25 — Linden Ave P&P	Sta 84+00 — 86+00
3 — Summary of Approximate Quantities	26 — 27 Road P&P	Sta 90+00 — 92+00
4 — Project Control Map	27 — 27 Road P&P	Sta 92+00 — 94+00
5 — Duck Pond P&P	28 — 27 1/4 Road P&P	Sta 10+00 — 12+00
6 — Duck Pond P&P	29 — UnawEEP Ave. Overlay	
7 — Duck Pond P&P	30 — UnawEEP Ave. Overlay	
8 — Escalante Alley P&P	31 — Escalante St. Overlay	
9 — Escalante Alley P&P	32 — Aspen St. Overlay	
10 — Escalante Alley P&P	33 — Palmer St. Overlay	
11 — Escalante Alley P&P	34 — Palisade St. Overlay	
12 — Escalante Alley P&P	35 — Roubideau St. Overlay	
13 — Aspen Alley P&P		
14 — Aspen Alley P&P		
15 — Aspen Alley P&P		
16 — Aspen Alley P&P		
17 — Aspen Alley P&P		
18 — Palmer Alley P&P		
19 — Palmer Alley P&P		
20 — Palmer Alley P&P		
21 — Palmer Alley P&P		
22 — Palmer Alley P&P		
23 — Linden Ave P&P		



UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
CITY OF GRAND JUNCTION	ERIC MOCKO	PROJECT ENGINEER	PROJECT ENGINEER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 256-4017	(970) 256-4022
CITY OF GRAND JUNCTION	ANNA PURTSCHER	ENGINEERING SPECIALIST	SANITARY SEWER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 244-1559	(970) 256-4022
ORCHARD MESA IRRIGATION	MAX SCHMIDT	MANAGER	IRRIGATION	668 38 RD	668 38 RD	PALISADE, CO 81526	(970) 464-7885	(970) 464-5928
SPECTRUM	JEFF VALDEZ	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
CENTURYLINK	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	JUSTIN BATES	SUPERVISOR	WATER	PO BOX 460	2190 H 1/4 RD	GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	STEVE PIBURN	UNIT MANAGER	ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2664	(970) 244-2664
XCEL	SARAH DARRICAU	UNIT MANAGER	GAS	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2656



PROJECT NO. F0016-F001641L	
NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.	
DESCRIPTION	DATE
REVISION $\Delta$ XXX	201X
REVISION $\Delta$ XXX	201X
REVISION $\Delta$ XXX	201X
REVISION $\Delta$ XXX	201X

  
**Grand Junction**  
 COLORADO  
*Public Works*  
*Engineering Division*



DRAWING STATUS:	
●	PROGRESS
○	FINAL CONSTRUCTION DRAWINGS
○	ASBUILT
DESIGNED BY:	
ERIC MOCKO	05/2021
REVIEWED BY:	
KEN HALEY, ENGINEERING MANAGER	06/2021
AUTHORIZED FOR CONSTRUCTION	
KEN HALEY, ENGINEERING MANAGER	06/2021
ACCEPTED AS CONSTRUCTED	
XXX, PROJECT ENGINEER	201X




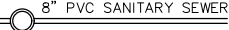
2021 SEWER LINE REPLACEMENT – PHASE A

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




































**ABBREVIATIONS**

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
C	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RI	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

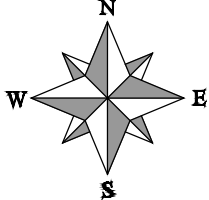
**LEGEND**

BSWMP	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
DRAINAGE BASIN BOUNDARY	=====
BSWMP	ANCHORED STRAW BALES : ASB ASB ASB ASB ASB ASB ASB ASB
BSWMP	SILT FENCE : SF SF SF SF SF SF SF SF
BUILDING	=====
CONCRETE CURB AND GUTTER	=====
CONCRETE CURB,GUTTER, & SIDEWALK	=====
CONCRETE DITCH	=====
CONCRETE SIDEWALK	=====
CULVERT	=====
EARTH DITCH	=====
EDGE OF GRAVEL	=====
EDGE OF PAVEMENT	=====
FENCE (BARBED WIRE)	=====
FENCE (CHAIN LINK)	=====
FENCE (IRON)	=====
FENCE (PLASTIC)	=====
FENCE (TEMPORARY CONSTRUCTION)	=====
FENCE (WOOD)	=====
FENCE (WOVEN WIRE)	=====
GUARD RAIL	=====
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	=====
LINE (CITY LIMITS)	=====
LINE (CONTROL)	=====
LINE (EASEMENT)	=====
LINE (MONUMENT/SECTION)	=====
LINE (PROPERTY)	=====
LINE (RIGHT OF WAY)	=====
MATCH LINE MATCH LINE SEE SHEET NO ?	=====
PIPE (IRRIGATION)	=====
PIPE (SIPHON)	=====
PROPOSED CONCRETE CURB AND GUTTER	=====
PROPOSED CONCRETE CURB,GUTTER,& SIDEWALK	=====
PROPOSED CONCRETE SIDEWALK	=====
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
RAIL ROAD	=====
RETAINING WALL	=====
STRIPING (CONTINUOUS WHITE)	=====
STRIPING (DASHED WHITE)	=====
STRIPING (CONTINUOUS YELLOW)	=====
STRIPING (DASHED YELLOW)	=====
TOP OF SLOPE	===== 4570
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	=====
TOE OF SLOPE	===== 4570
TRAFFIC DETECTOR LOOP	=====
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	=====
UTILITY LINE (CABLE TV)	=====
UTILITY LINE (ELECTRIC)	=====
UTILITY LINE (FIBER OPTIC)	=====
UTILITY LINE (GAS)	=====
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	=====
UTILITY LINE (OVERHEAD POWER)	=====
UTILITY LINE (OVERHEAD TELEPHONE)	=====
UTILITY LINE (SANITARY SEWER)	=====
UTILITY LINE (SANITARY SEWER FORCE MAIN)	=====
UTILITY LINE (SANITARY SEWER SERVICE)	=====
UTILITY LINE (STORM SEWER)	=====
UTILITY LINE (STORM SEWER, PERFORATED)	=====
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	=====
UTILITY LINE (TELEPHONE)	=====
UTILITY LINE (WATER)	=====


**SYMBOLS**

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	

NORTH ARROW:



BAR SCALE:



( IN FEET )  
1 inch = 20 feet

REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ			DRAWN BY JCS DATE 4-02
REVISION Δ			DESIGNED BY DATE
REVISION Δ			CHECKED BY DATE
REVISION Δ			APPROVED BY DATE

SCALES: PLAN & PROFILE



PUBLIC WORKS  
ENGINEERING DIVISION

CITY OF GRAND JUNCTION  
STANDARD ABBREVIATIONS, LEGEND,  
AND SYMBOLS

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Bid Schedule: 2021 Sewer Replacements - Phase A - Unawsep Ave						
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	102.11	Connect Manhole to existing sanitary sewer (Various Pipe Sizes listed on Plans). Contractor shall use a cast-in-place base to form invert around the existing pipe. "O" ring gaskets or other water stops are to be placed around the inlet and outlet pipes to ensure a water tight seal provided at the MH base. Care should be taken so that the existing line does not sag or float during construction of the base. The top of the existing pipe shall be cut and removed to provide for the new invert in. Contractor shall control sewer flow and not allow debris to enter the pipe.	2	EA		
2	108.2	4" Sewer Service Pipe (SDR-35 PVC) (Includes Type A Bedding and Haunching Material, Backfill of Trench with Native Materials meeting 103.16 Earth Backfill material and End-of-Service Cap)	1,085	LF		
3	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	20	LF		
4	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	90	LF		
5	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	385	LF		
6	108.2	12" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	385	LF		
7	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	380.8	LF		
8	108.2	18" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	60	LF		
9	108.2	8" Gravity Sewer Pipe (Certa-Flo Pipe)(Certa-Flo PVC Gravity Sewer Pipe)(SDR-21) (ASTM D-2241) (20-ft Joints)(Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) ( Pipe Bursting)	3,175	LF		
10	108.2	Connect existing 18" VCP pipe to proposed 18" SDR-35 Pipe using Fernco adapter or equal	1	EA		
11	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	81	EA		
12	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02)	29	EA		
13	108.5	Manhole Barrel Section (D>5") (48" I.D.)	268	Vert. Ft.		
14	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02)	1	EA		
15	108.5	Manhole Barrel Section (D>5") (60" I.D.)	9	Vert. Ft.		
16	108.5	Manhole Protective Coating (Castagra Ecodur 201 Coating or Approved Equal) (40 mils Thickness, min.)	267	Vert. Ft.		
17	202	Removal of Existing Pipe (Size & type as shown on plans)	3,109	LF		
18	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	27	EA		
19	202	Removal of Manhole (Remove Manhole Cone Section, Ring, and Cover and deliver to City Shops. Contractor shall fill remaining barrel sections with flow fill material)	2	EA		
20	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	1	EA		
21	202	Removal of Existing Surface Material	634	SY		
22	202	Removal of Asphalt Mat (Full Depth)	1,099	SY		

23	202	Removal of Asphalt Mat (Planing)(2" Thick for T-Top Section)	30	SY		
24	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	169	SY		
25	202	Removal of Sod	3,121	SF		
26	202	Asphalt Removal (Planing)(Thickness Varies)	25,654	SY		
27	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA		
28	208	Erosion Control Log	160	LF		
29	210	Reset Fence (Height and Material Shown on Plan)	236	LF		
30	212	Re-Sod Area as Shown (1st Street)(Includes 6" Thick Imported Topsoil placed prior to sod placement)	3,121	SF		
31	304	Aggregate Base Course (Class 6) (12" thick)	961	SY		
32	304	Aggregate Base Course (Class 6) (6" thick)	1,127	SY		
33	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons		
34	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR=75) (Two 2" Lifts)	956	SY		
35	401	Hot Bituminous Pavement (Patching)(2" Thick) (Grading SX, Binder Grade PG 64-22, GYR=75) (One 2" Lift Top Mat (T-Top Patch) (See City Std. Detail GU-05)	956	SY		
36	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920	Tons		
37	608	Concrete Curb and Gutter (2' Wide)	9	LF		
38	608.06	Concrete Driveway Section (6" Thick) (Residential)	3	SY		
39	608.06	Concrete Intersection Corner	17	SY		
40	608.06	Concrete Drainage Pan (6' Wide)	13	SY		
41	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	224	LF		
42	627-30410	Preformed Plastic Pavement Marking (Symbol)	447	SF		
43	630	Flagging	3,400	HR		
44	Overlay Tile	24" X 48" MetaDome Surface Applied Overlay Tile, Non-Flanged Brick Red	32	Each		
45	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum		
46	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum		
47	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum		
48	620	Portable Sanitary Facility	1	Lump Sum		
49	625	Construction Surveying (Includes As-Built Drawings)	1	Lump Sum		
50	626	Mobilization	1	Lump Sum		
51	630	Traffic Control (Complete in Place)	1	Lump Sum		
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
INC		Incentive HMA 76-28	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 150,000.00
					<b>Bid Amount:</b>	\$

REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION	△	---	DRAWN BY DJM DATE 05/2021	
REVISION	△	---	DESIGNED BY DJM DATE 05/2021	
REVISION	△	---	CHECKED BY ECM DATE 05/2021	
REVISION	△	---	APPROVED BY KH DATE 05/2021	



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2021 SEWER LINE REPLACEMENT – PHASE A  
SUMMARY OF APPROXIMATE QUANTITIES

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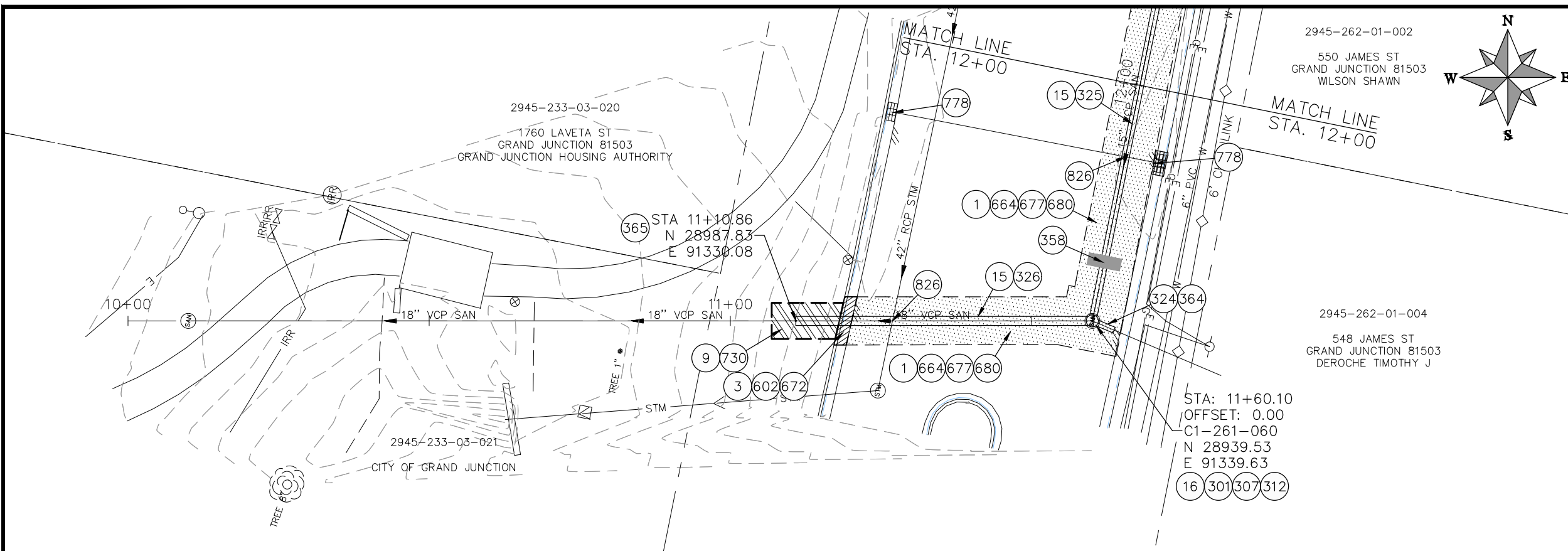
REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ			DRAWN BY DJM DATE 05/2021
REVISION Δ			DESIGNED BY DJM DATE 05/2021
REVISION Δ			CHECKED BY ECM DATE 05/2021
REVISION Δ			APPROVED BY KH DATE 05/2021

SCALES: PLAN & PROFILE

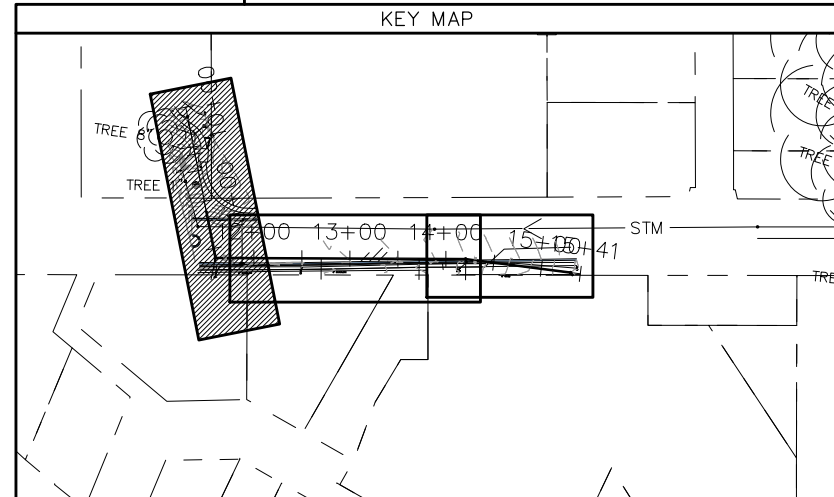
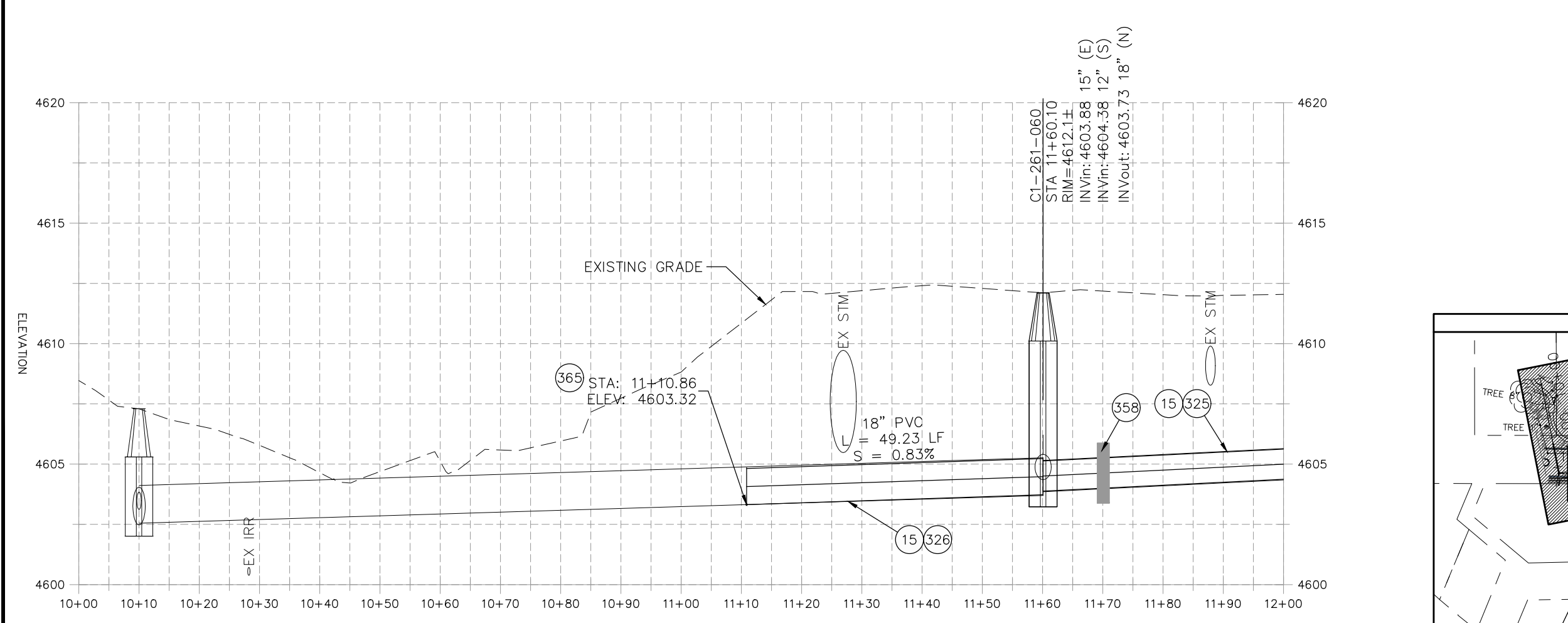


PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
PROJECT CONTROL MAP



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 120 210 - RESET/REPAIR SPRINKLER IRRIGATION SYSTEM. (IF NECESSARY)
  - 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 307 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (60" I.D.)
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 325 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 326 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 365 CONNECT EXISTING 18" VCP PIPE TO PROPOSED 18" SDR-35 PVC PIPE USING FERNCO ADAPTER OR EQUAL.
  - 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 672 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 778 208 - STORM DRAIN INLET PROTECTION (SILT-SACK STYLE OR APPROVED EQUAL) (NO GRAVEL/ROCK BAG FILTERS ARE ALLOWED)
  - 801 PROTECT TREE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO. ###
REVISION Δ XXX		202X	DRAWN BY DJM DATE 05/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 5/2021
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

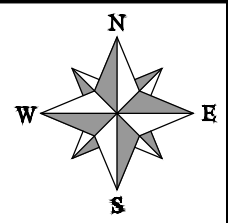
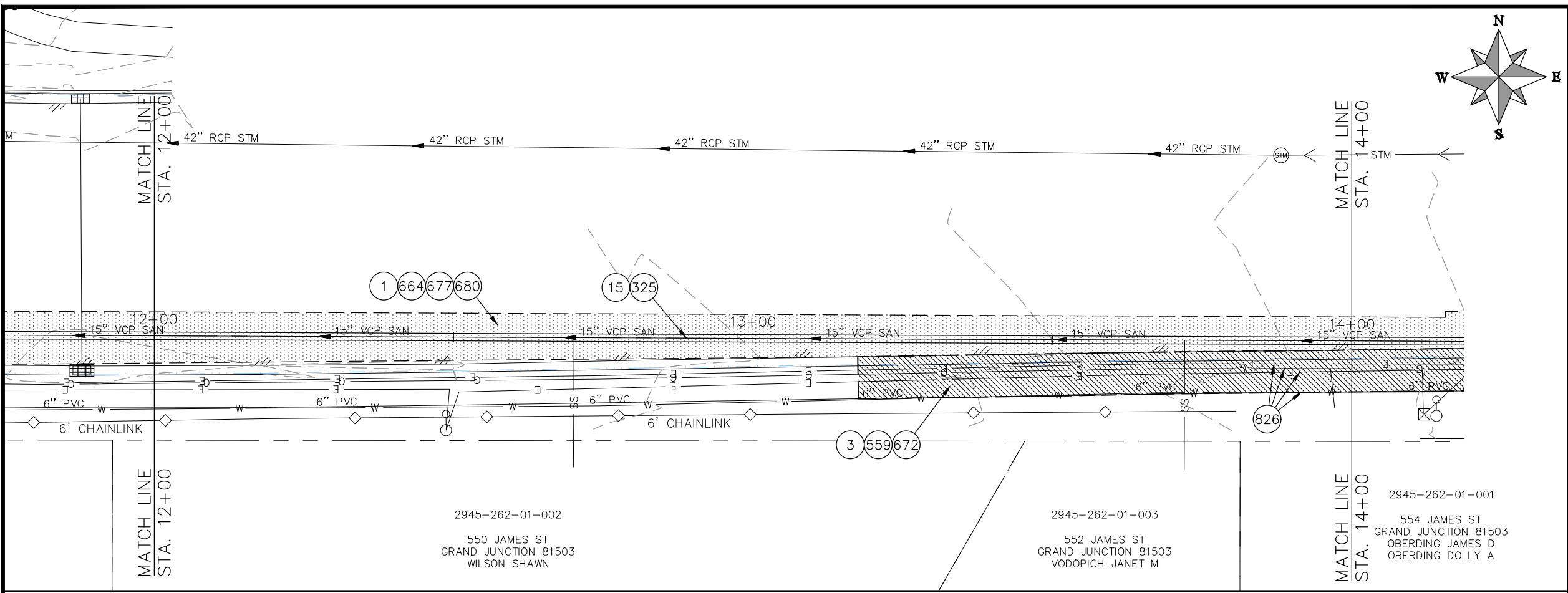
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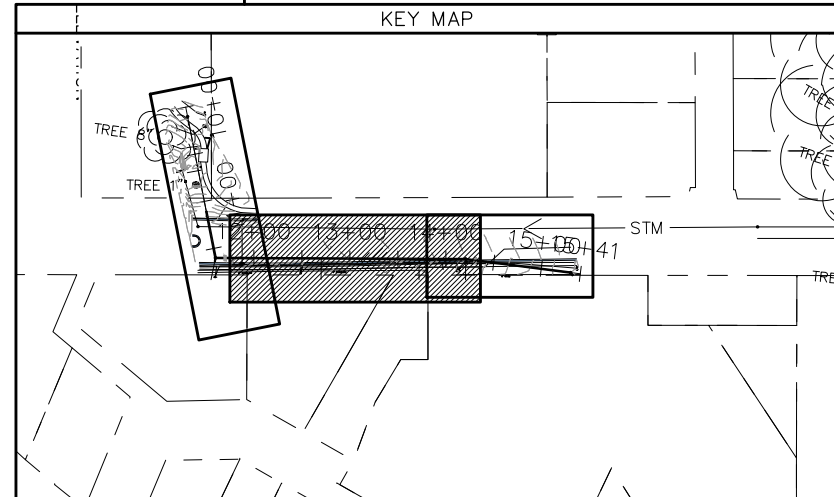
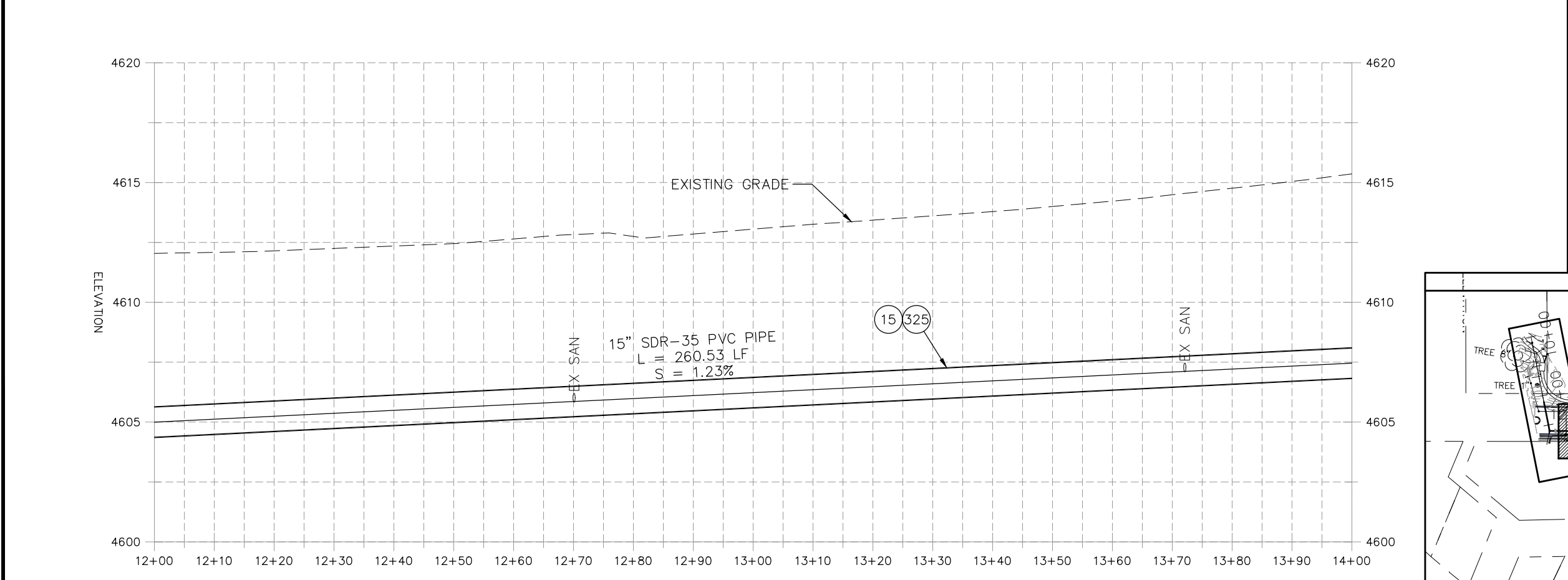
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 10+00 TO STA 12+00**

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- CONSTRUCTION NOTES**
- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 325 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7' WIDE)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 672 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO. ###
REVISION Δ XXX		202X	DRAWN BY DJM DATE 05/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 05/2021
REVISION Δ XXX		202X	CHECKED BY ECM DATE 05/2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 05/2021

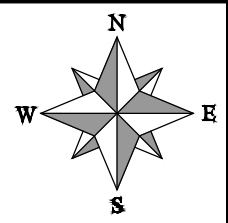
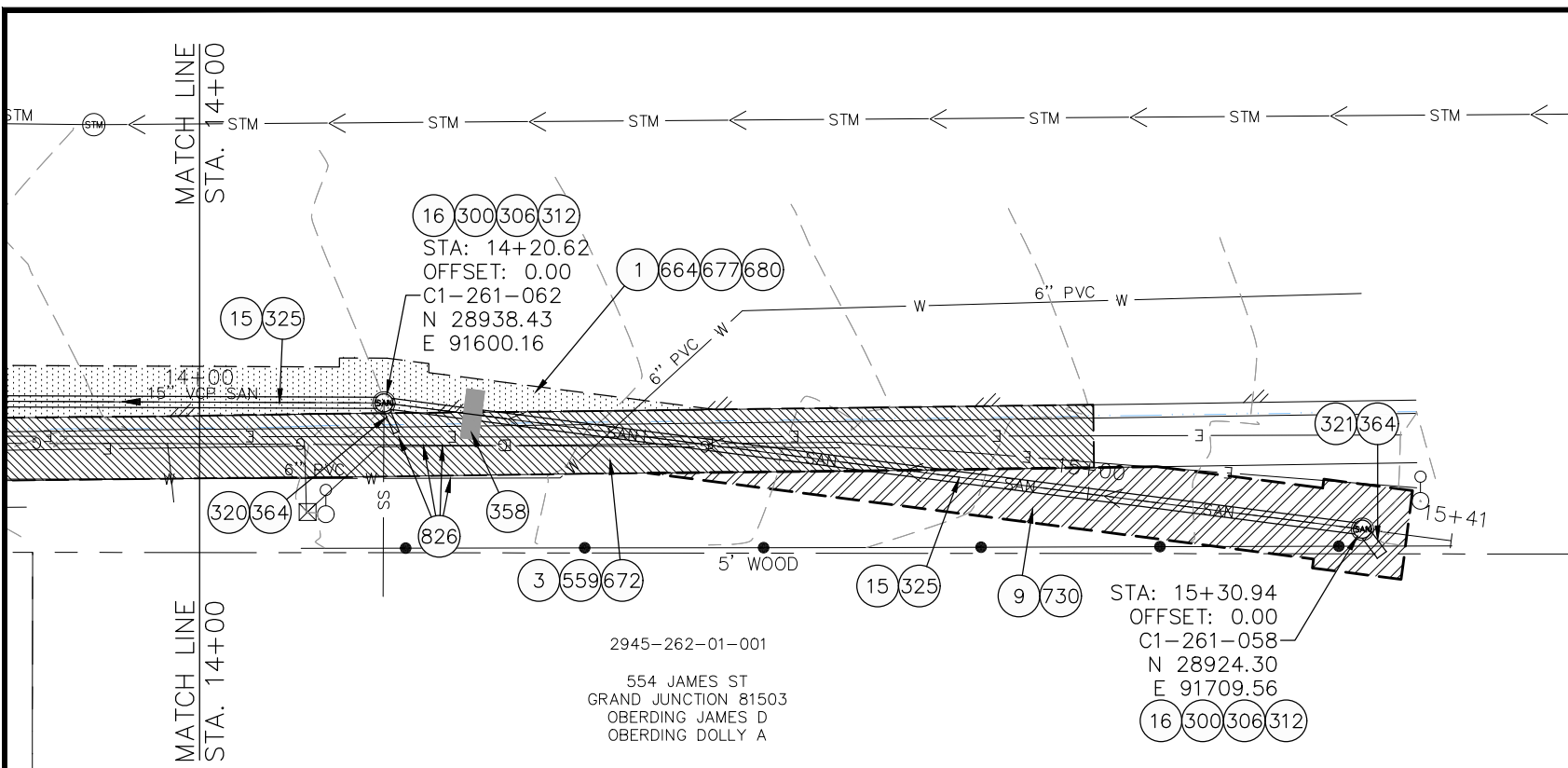
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VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

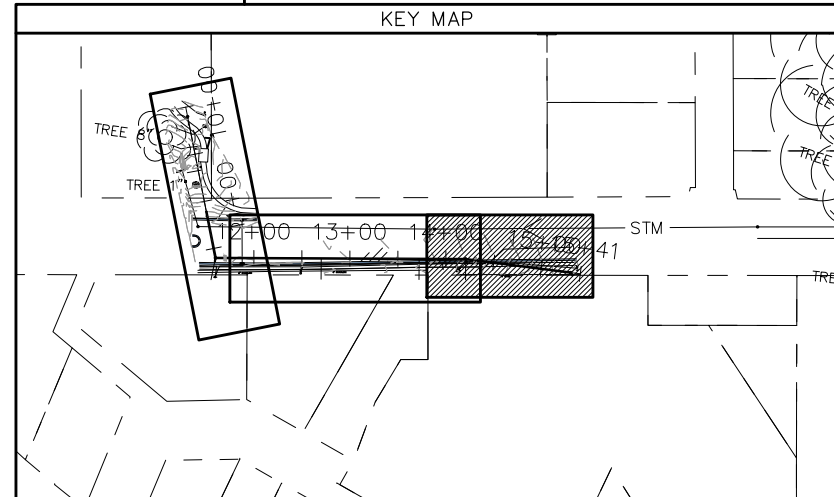
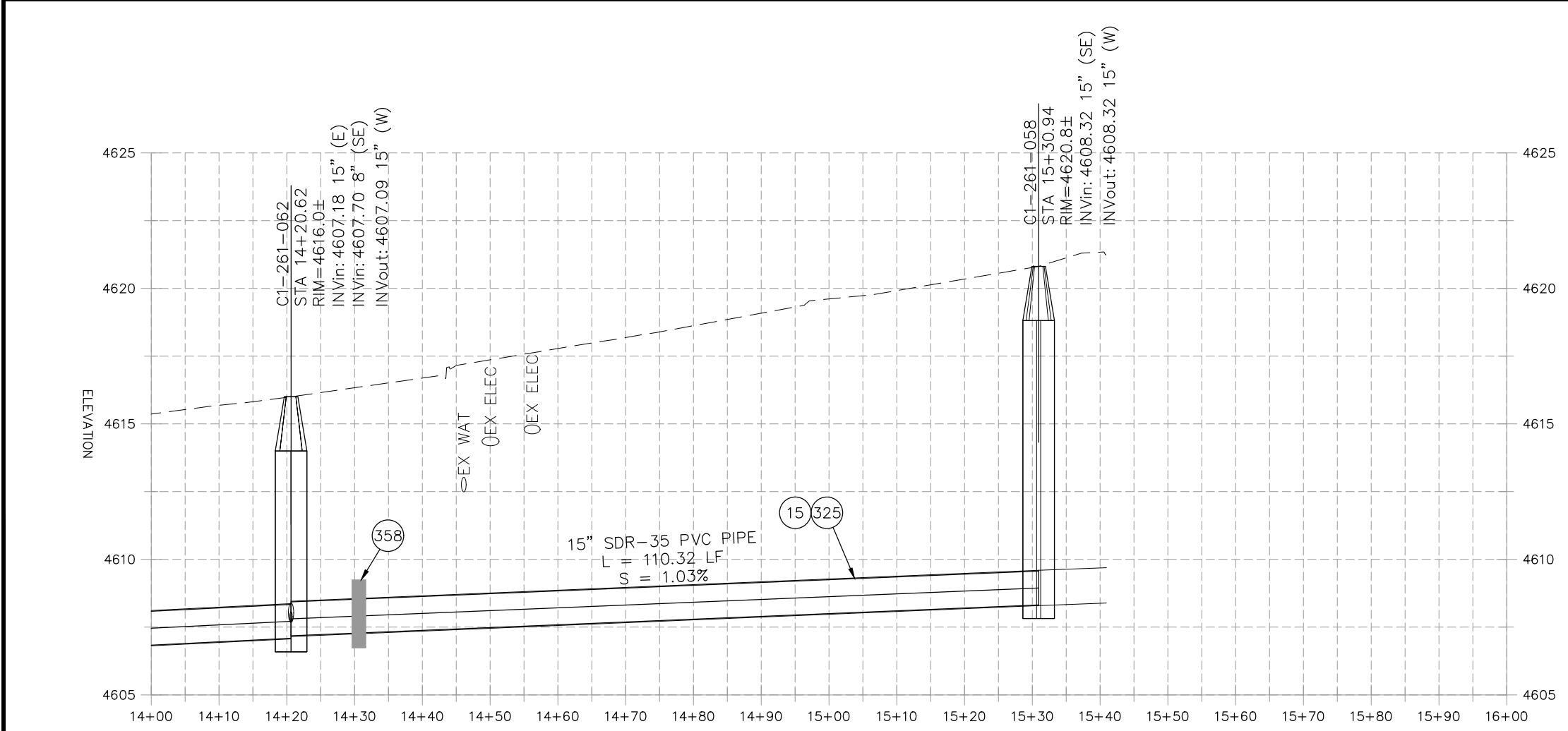
**2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 12+00 TO STA 14+00**

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**CONSTRUCTION NOTES**

- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 9 202 - REMOVAL OF SOD.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
- 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS) (APPLIES ONLY TO 1ST STREET SEWER MANHOLES)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 321 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (15" PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 325 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- 672 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO. ###	SCALE: PLAN & PROFILE
REVISION Δ XXX		202X	DRAWN BY DJM DATE 05/2021	HORIZONTAL: 1" = 20'
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REVISION Δ XXX		202X	CHECKED BY ECM DATE 05/2021	VERTICAL: 1" = 5'
REVISION Δ XXX		202X	APPROVED BY KH DATE 05/2021	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 14+00 TO STA 16+00**

2945-262-00-016  
 705 UNAWEEP AVE  
 GRAND JUNCTION 81503  
 PACE DARIN  
 PACE AMY

STA: 20+10.00  
 OFFSET: 0.00  
 B4-261-017  
 N 28729.51  
 E 92056.62

STA: 22+27.14  
 OFFSET: 0.00  
 C1-261-065  
 N 28928.78  
 E 92034.36

STA: 22+07.88  
 OFFSET: 0.00  
 C1-261-064  
 N 28927.36  
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2945-261-23-009  
 1837 ASPEN ST  
 GRAND JUNCTION 81503  
 LANGE DAVID P  
 LANGE NANCY S

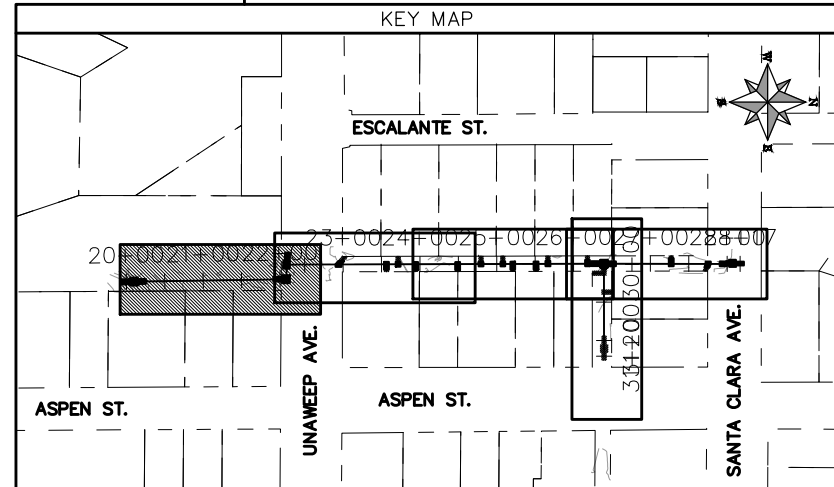
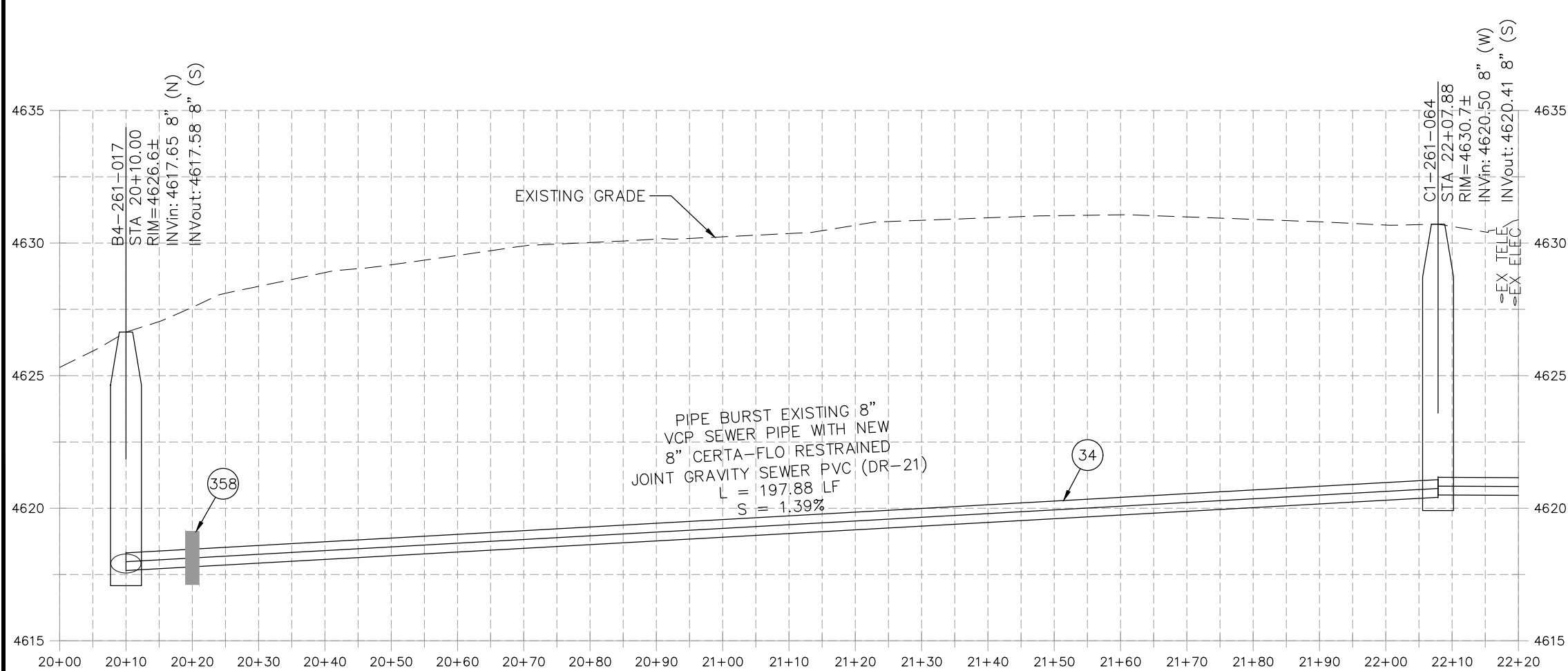
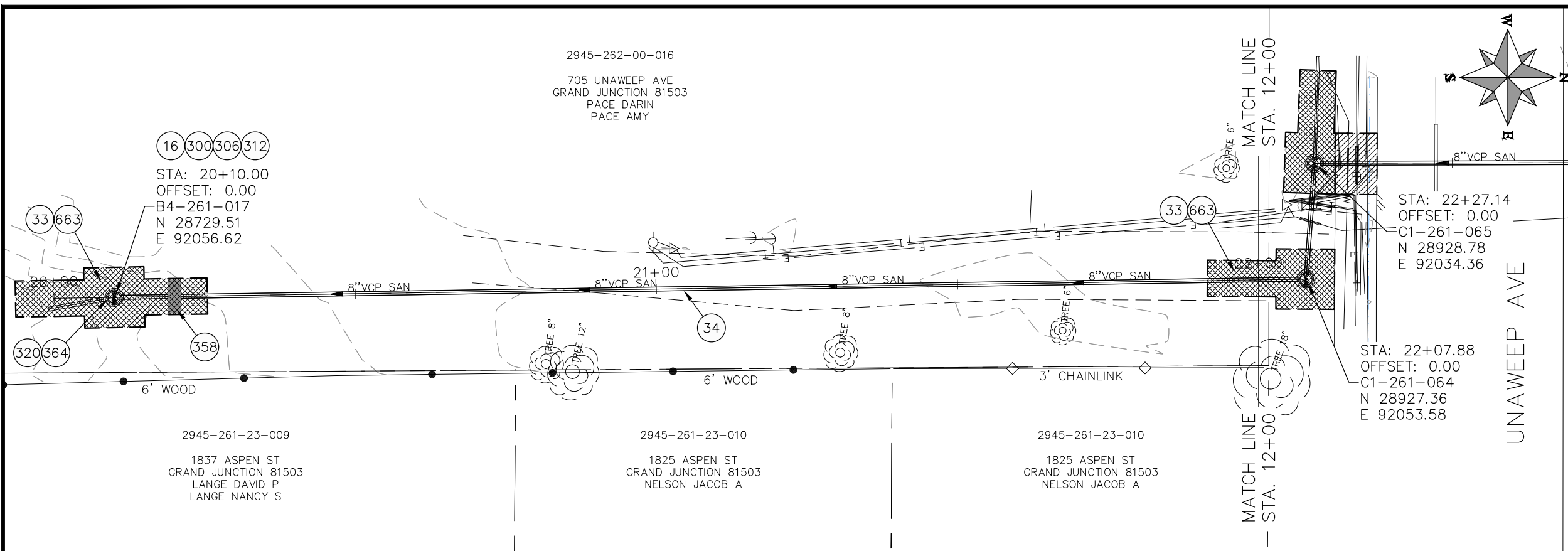
2945-261-23-010  
 1825 ASPEN ST  
 GRAND JUNCTION 81503  
 NELSON JACOB A

2945-261-23-010  
 1825 ASPEN ST  
 GRAND JUNCTION 81503  
 NELSON JACOB A

CONSTRUCTION NOTES

- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 33 202 - REMOVE EXISTING SURFACE MATERIAL
- 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
- 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 801 PROTECT TREE
- 823 PROTECT UTILITY POLE
- 824 PROTECT UTILITY PEDESTAL
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.

NOTE:  
 SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	----	04/2021
REVISION Δ XXX		202X		4/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

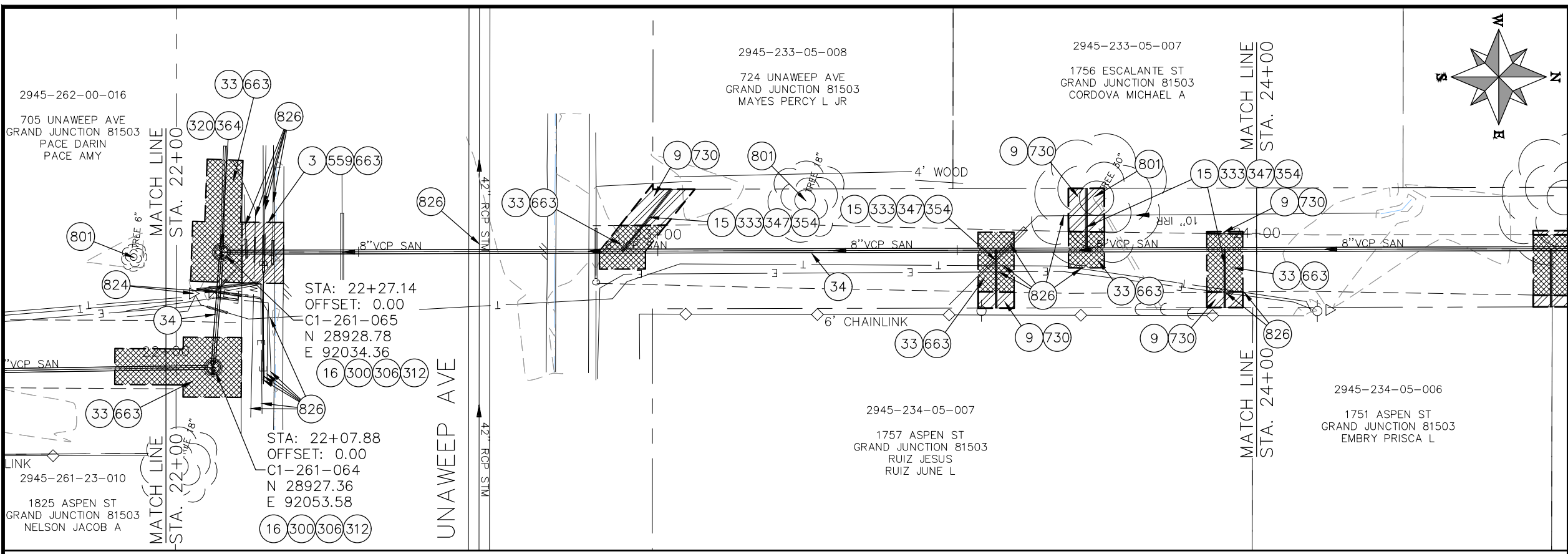
SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



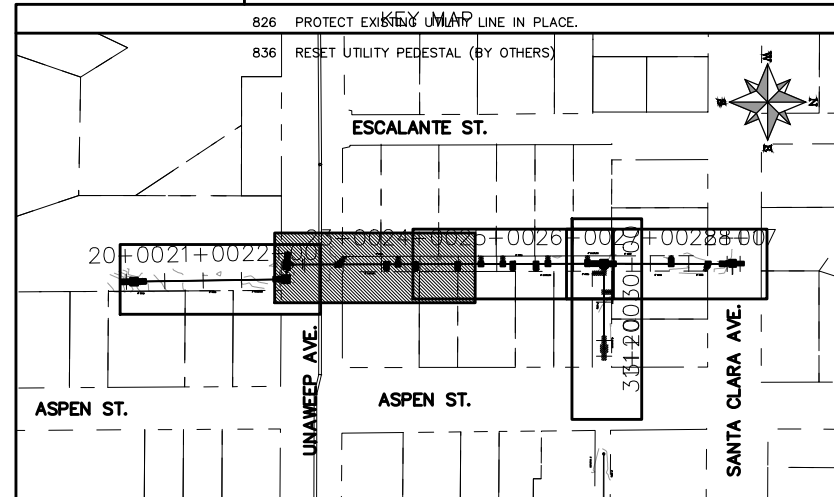
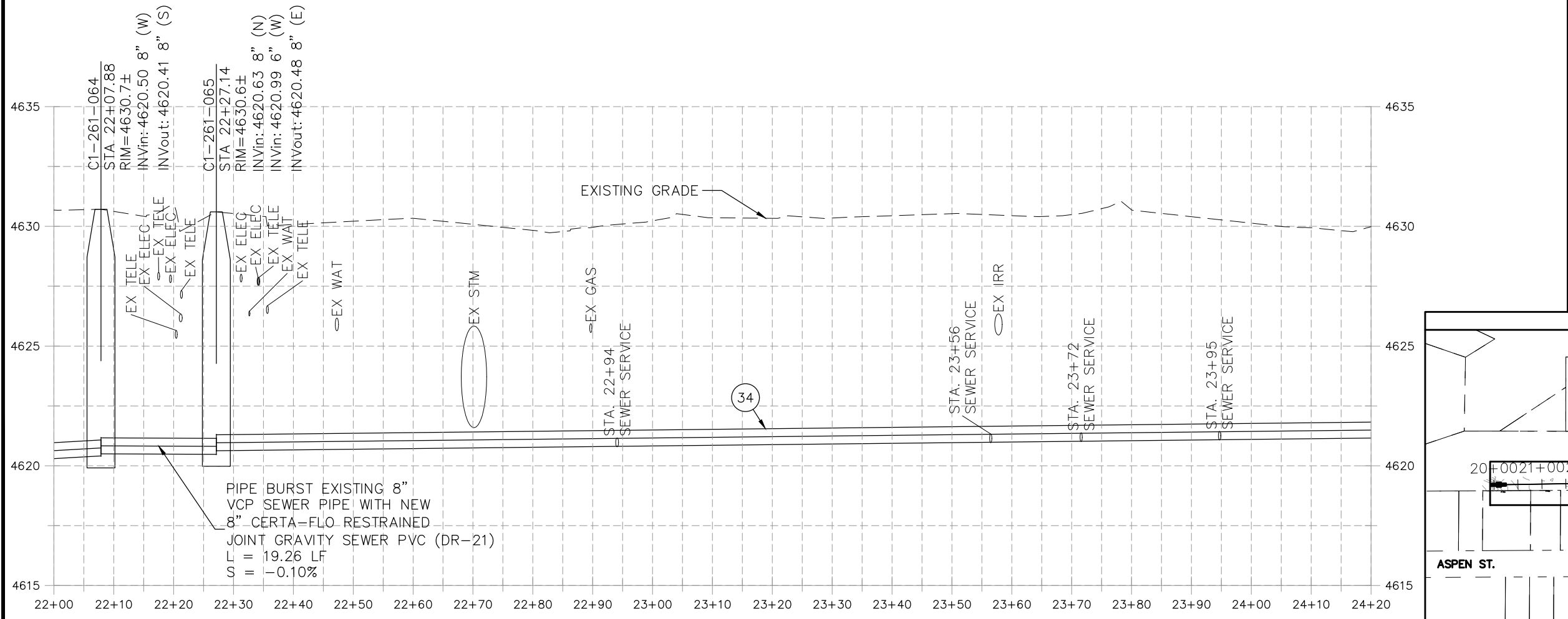
PUBLIC WORKS  
 ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
 ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
 STA 20+00 TO STA 22+00





- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (6" PVC PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7' WIDE)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 836 RESET UTILITY PEDESTAL (BY OTHERS)



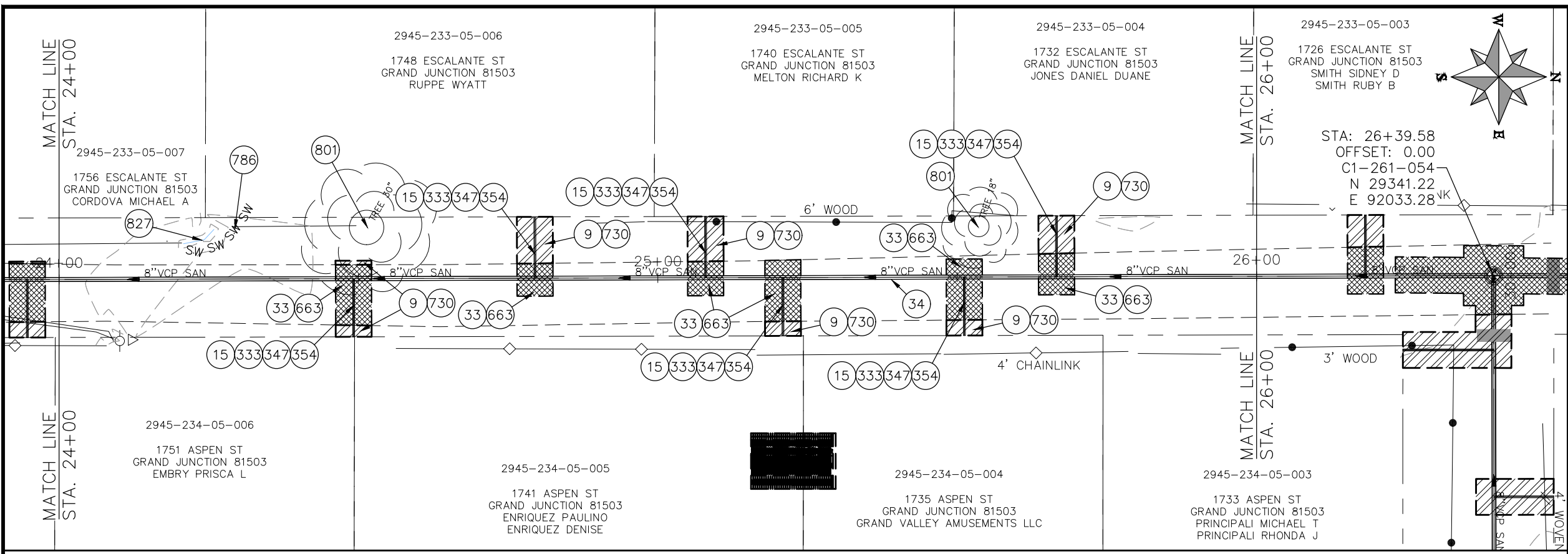
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SCALE	DESCRIPTION
HORIZONTAL: 1" = 20'	
VERTICAL: 1" = 5'	

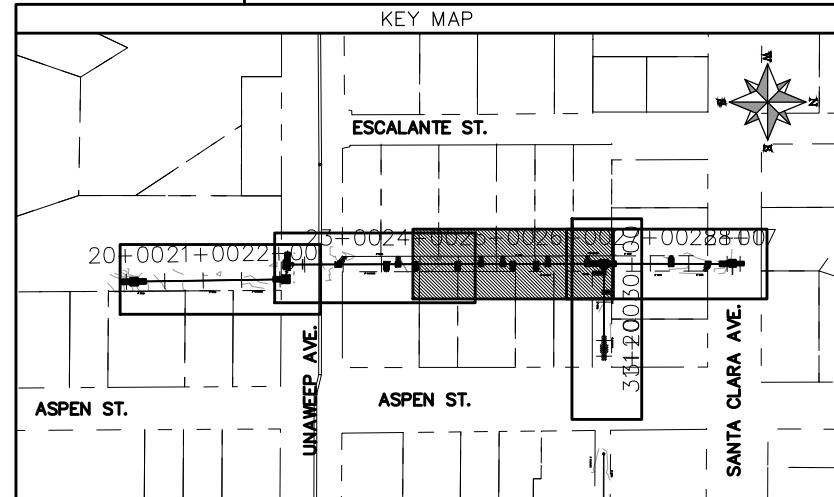
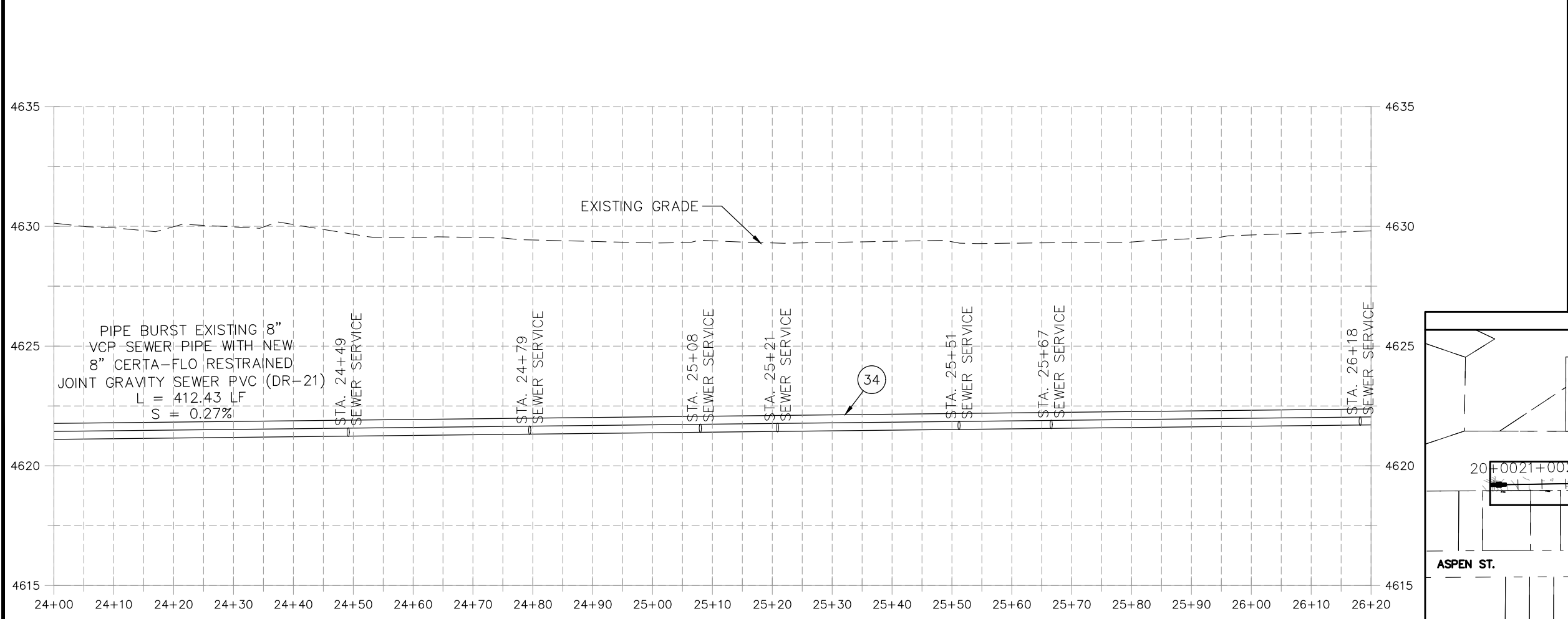


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
STA 22+00 TO STA 24+00**



- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 EROSION CONTROL LOG
  - 801 PROTECT TREE
  - 827 PROTECT IRRIGATION DITCH



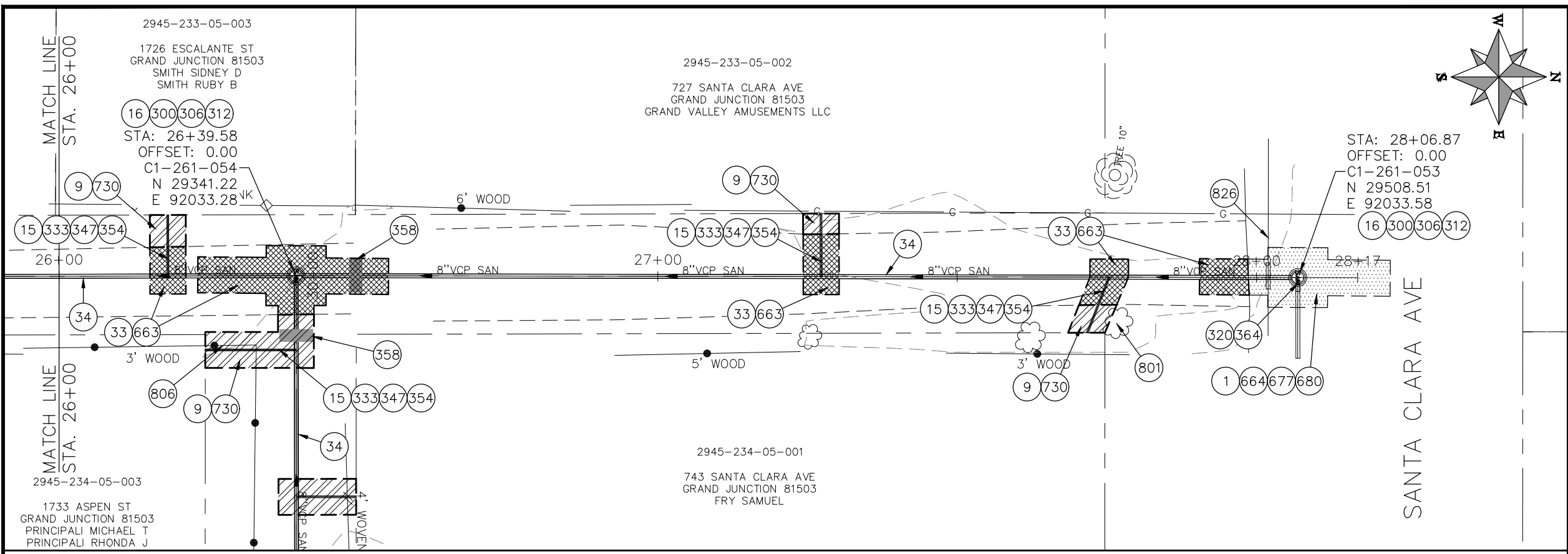
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REVISION Δ XXX		202X	----	4/2021
REVISION Δ XXX		202X	----	2021
REVISION Δ XXX		202X	----	2021

SCALE	DATE	DATE
HORIZONTAL: 1" = 20'	04/2021	04/2021
VERTICAL: 1" = 5'	2021	2021

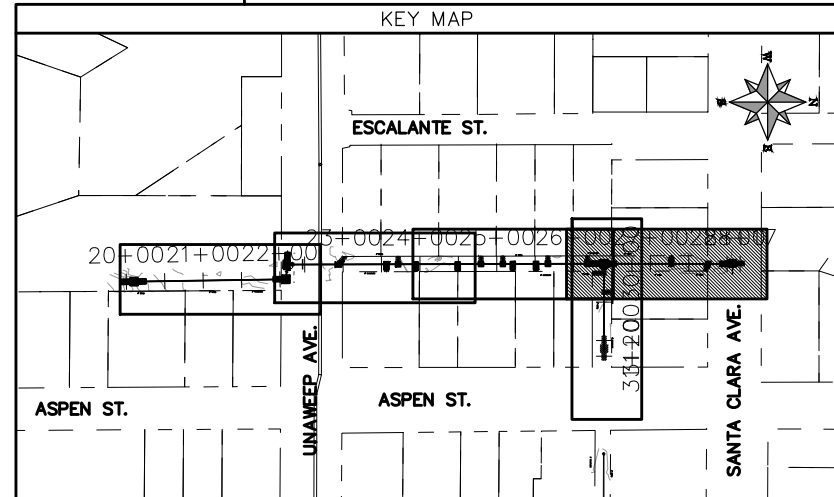
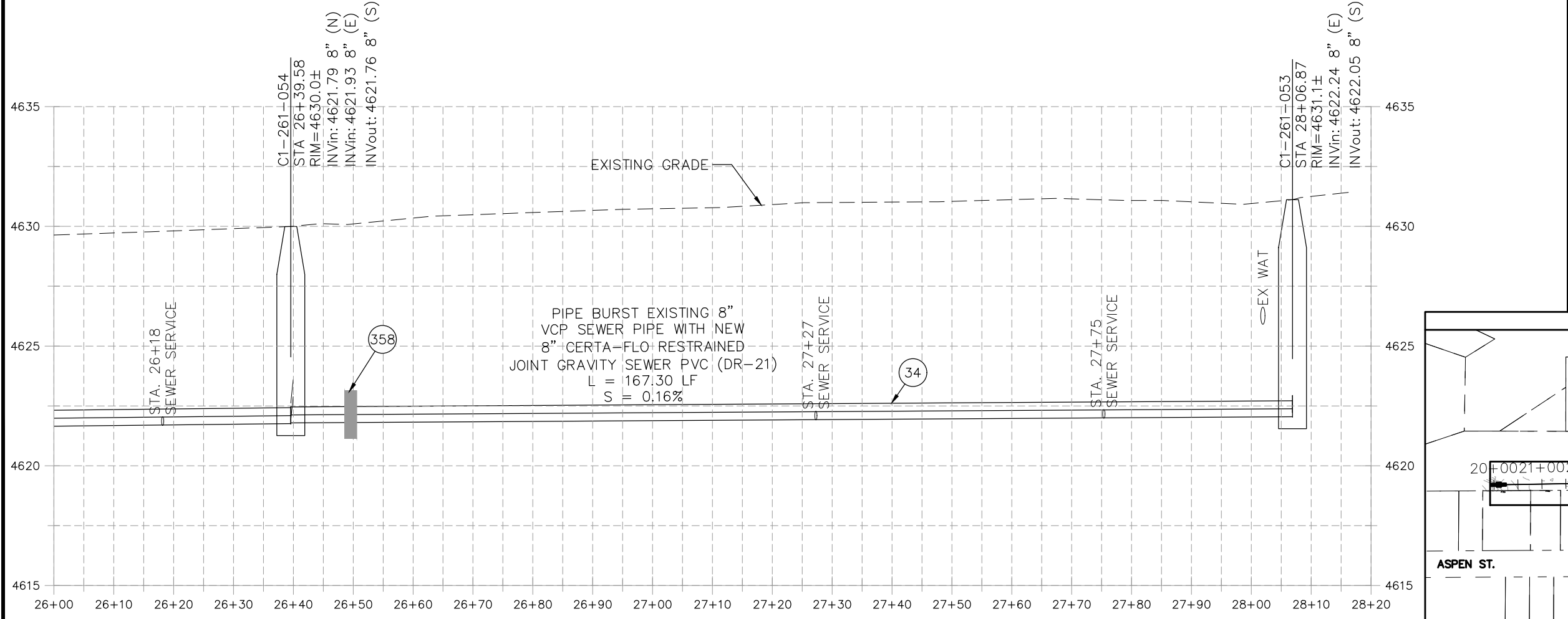


PUBLIC WORKS ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
 ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
 STA 24+00 TO STA 26+00



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	---	04/2021
REVISION Δ XXX		202X	---	4/2021
REVISION Δ XXX		202X	---	2021
REVISION Δ XXX		202X	---	2021

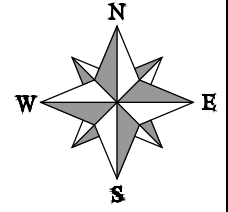
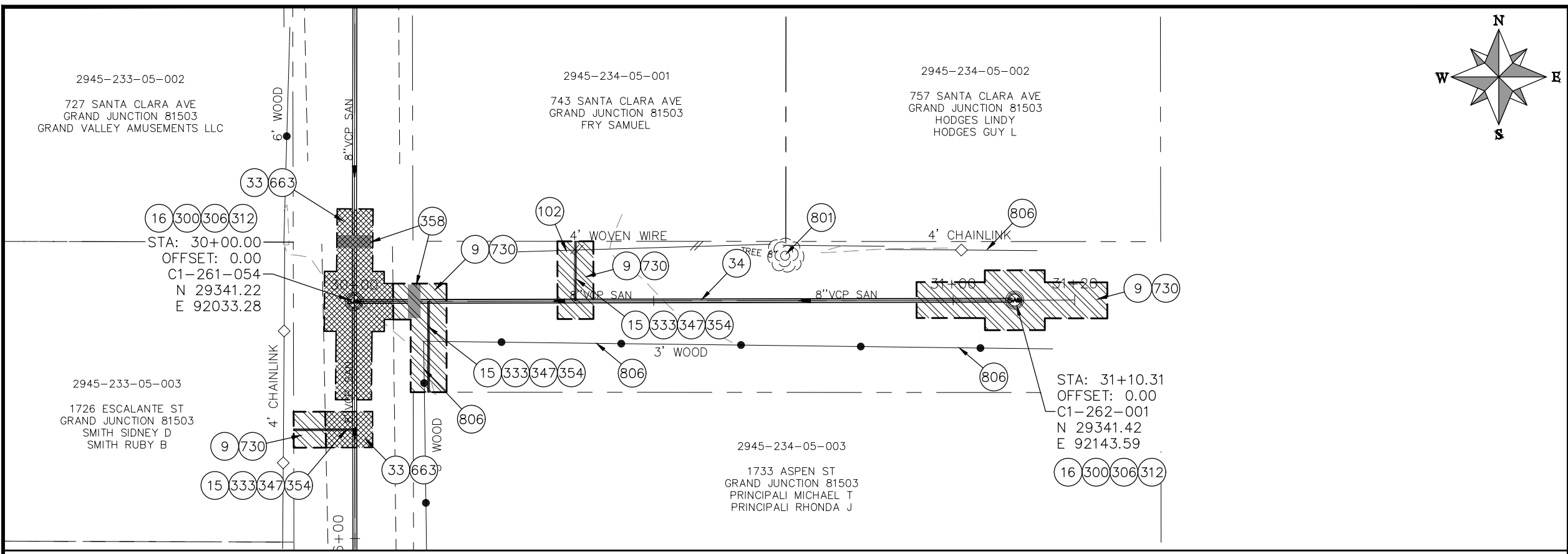
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VERTICAL: 1" = 5'	0 1.25 2.5 5



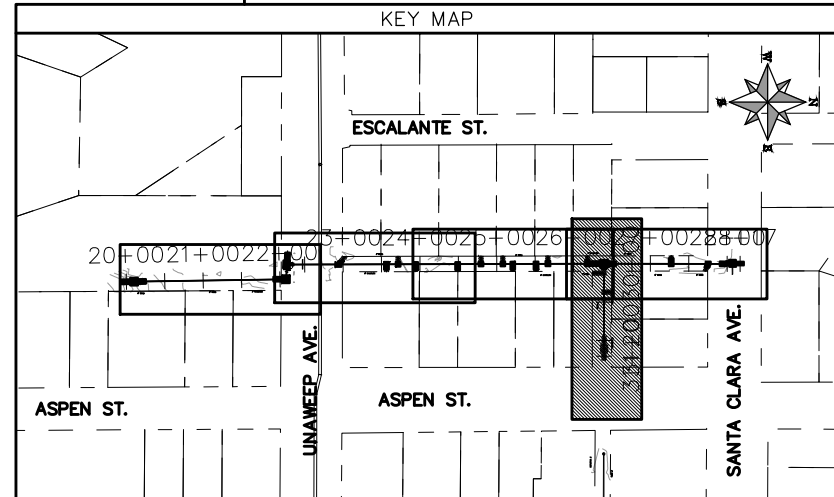
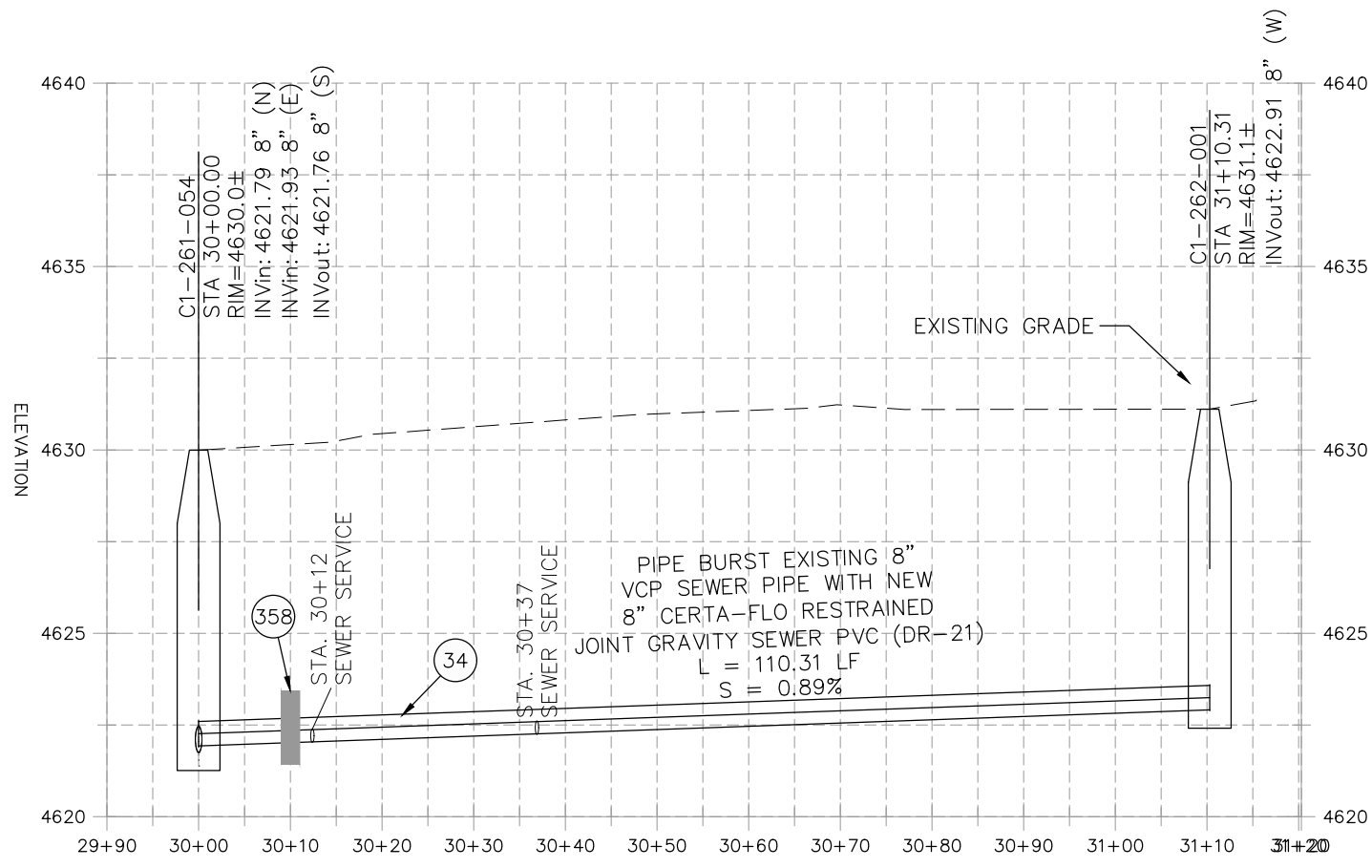
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
STA 26+00 TO STA 28+17**

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION A XXX		202X	---	04/2021
REVISION B XXX		202X	---	4/2021
REVISION C XXX		202X	---	2021
REVISION D XXX		202X	---	2021

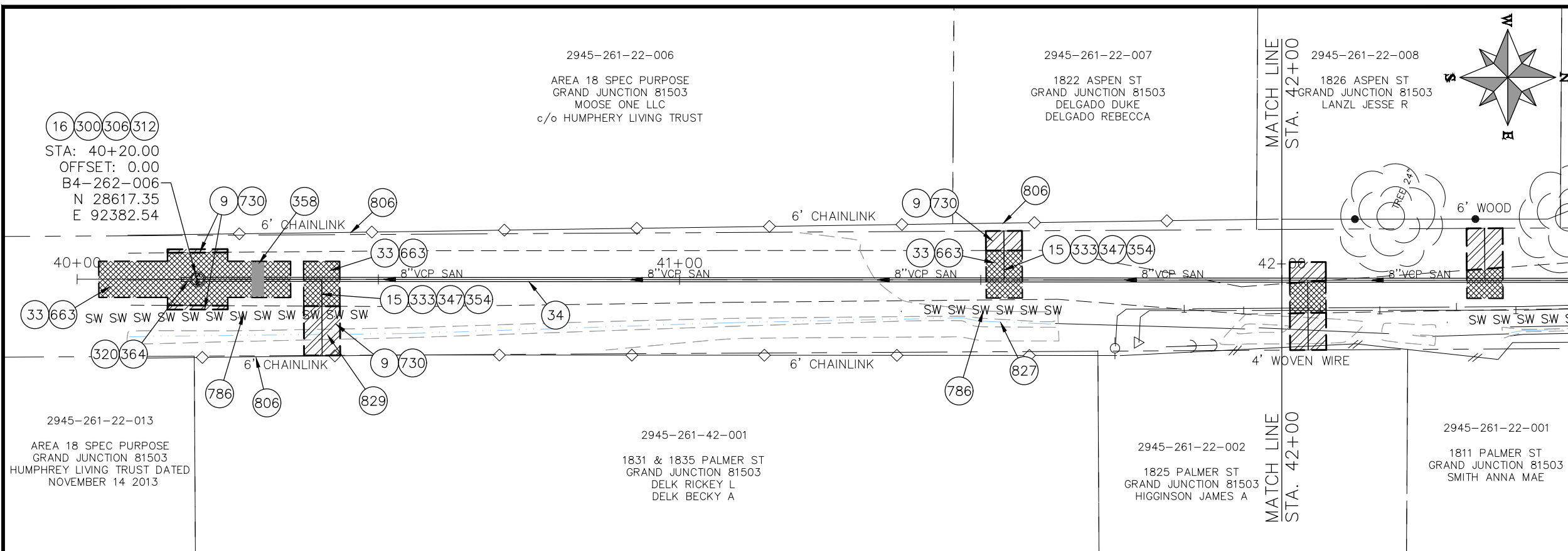
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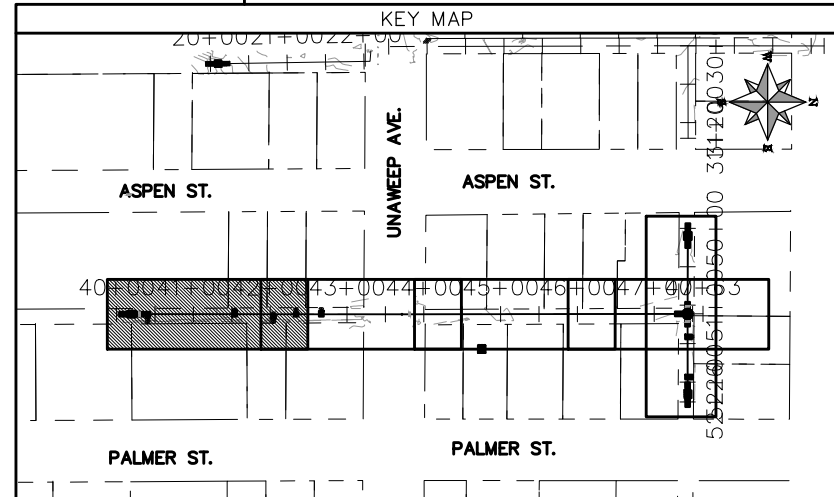
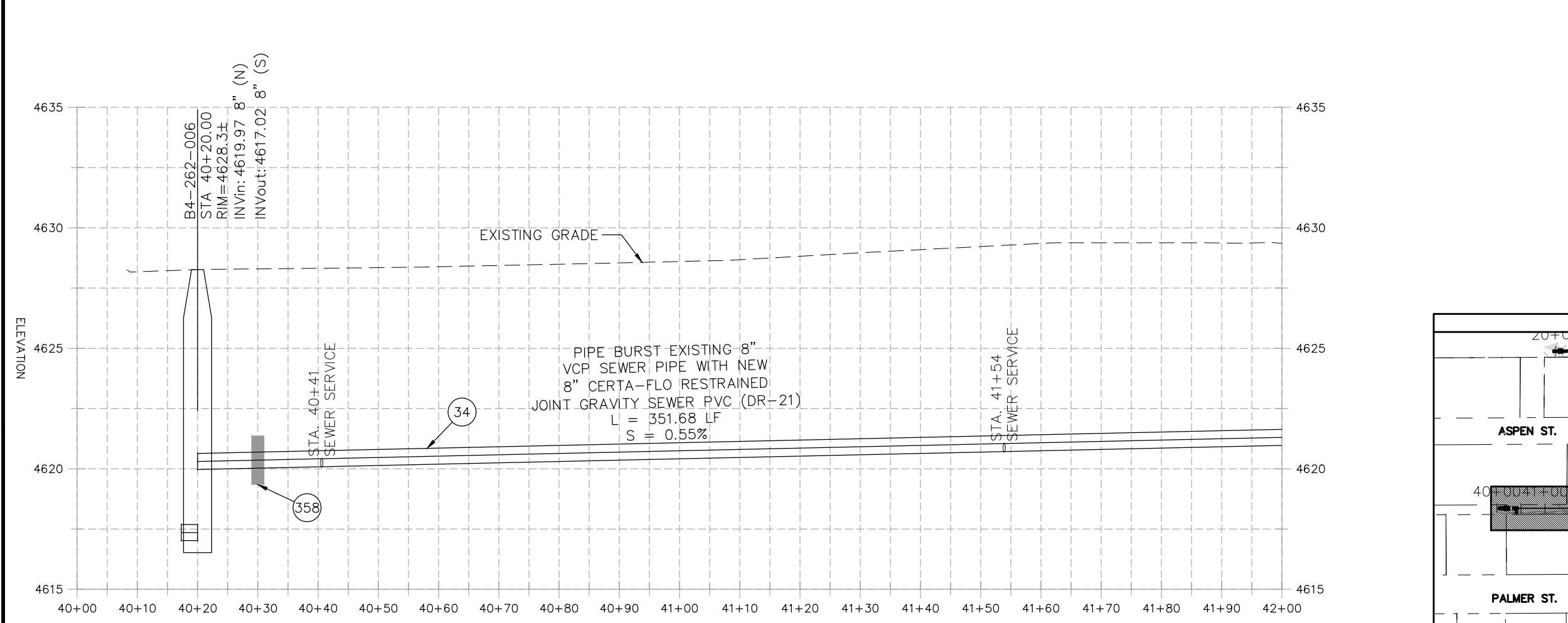
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
STA 30+00 TO STA 31+20**

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- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (10" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 208 - EROSION CONTROL LOG
  - 806 PROTECT FENCE
  - 827 PROTECT IRRIGATION DITCH
  - 829 PROTECT IRRIGATION DITCH FLOW. COST IS INCIDENTAL TO COST OF CONSTRUCTION.



REVISION	DESCRIPTION	DATE	PROJECT NO. ####
REVISION Δ XXX		202X	DRAWN BY DJM DATE 04/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

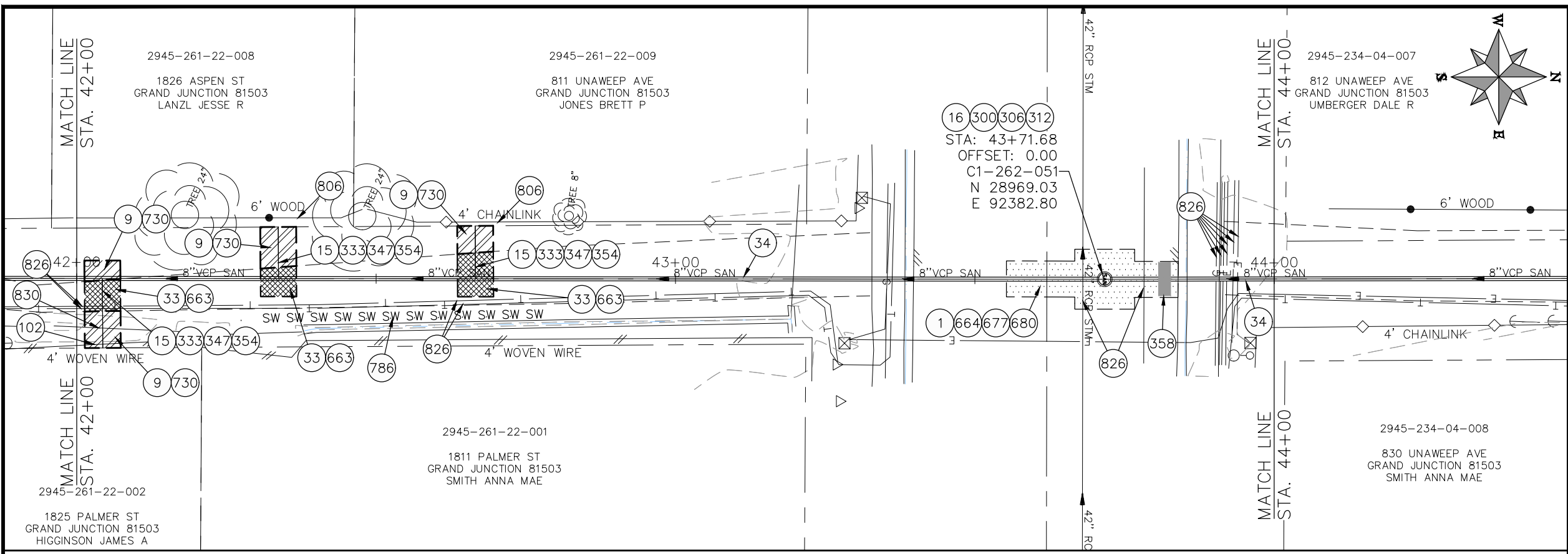
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VERTICAL: 1" = 5'	0 1.25 2.5 5



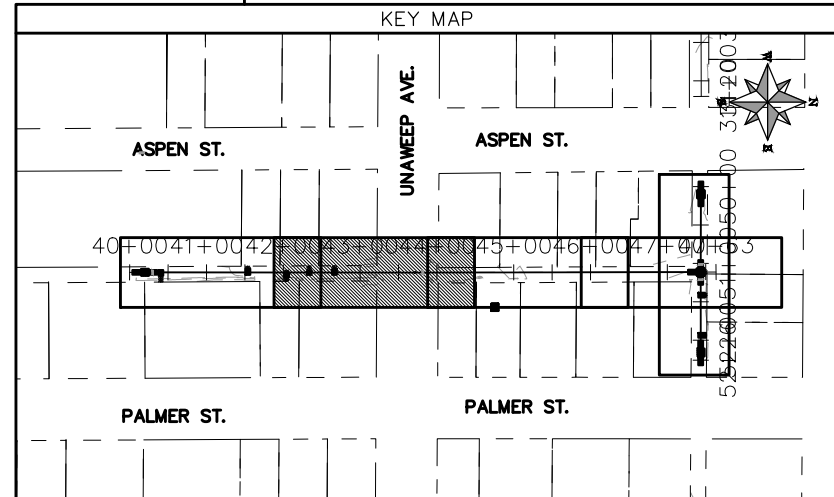
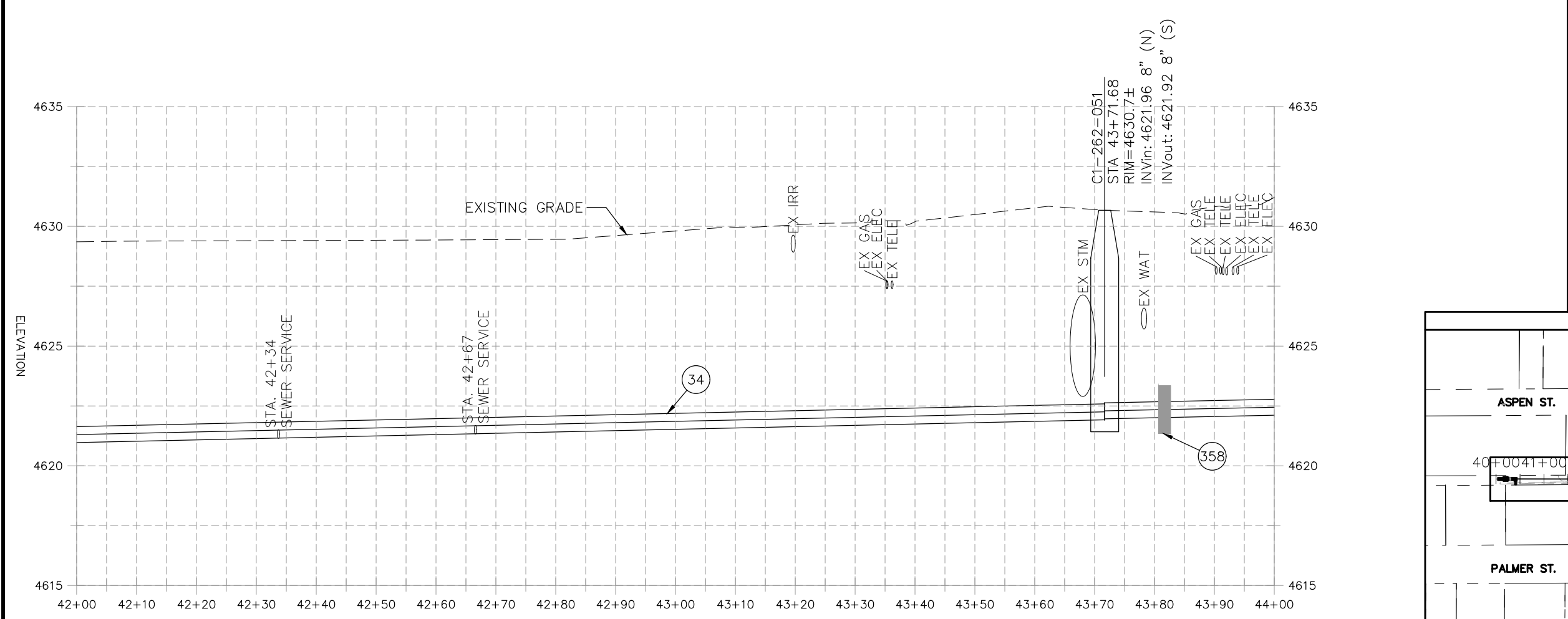
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 40+00 TO STA 42+00**

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- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODEUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 786 EROSION CONTROL LOG
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 830 PROTECT IRRIGATION CULVERT. COST IS INCIDENTAL TO COST OF CONSTRUCTION.



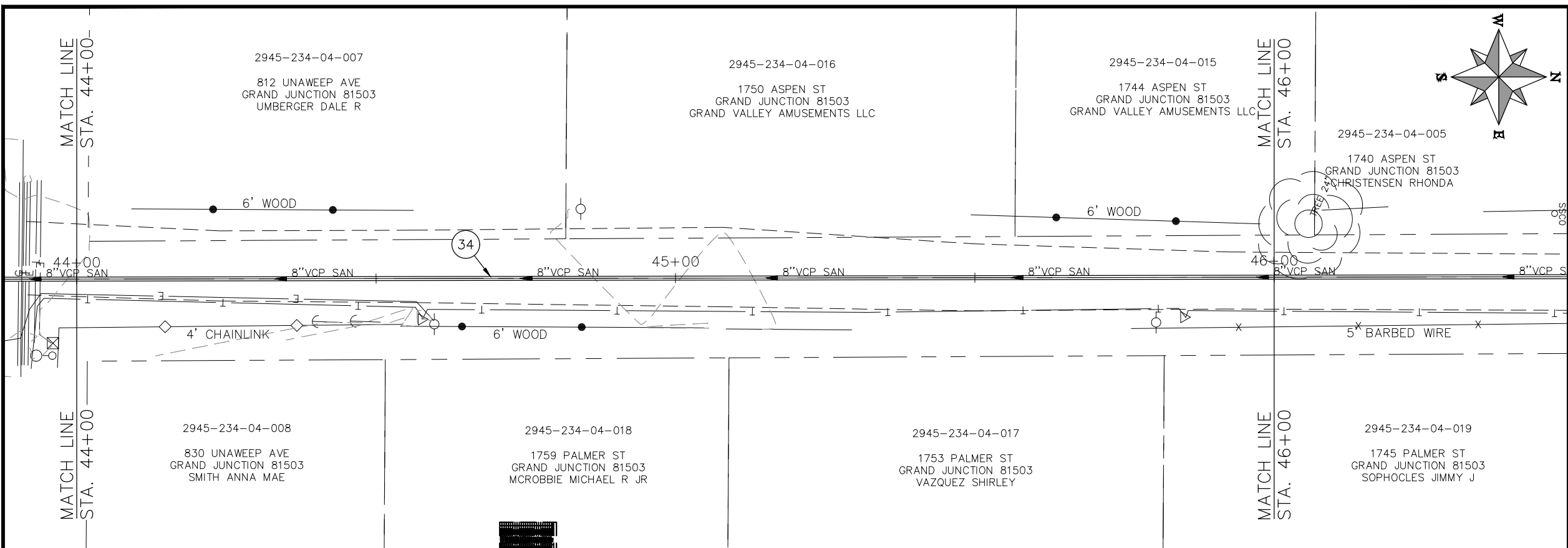
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REVISION Δ XXX	202X	4/2021	DJM
REVISION Δ XXX	202X	2021	EM
REVISION Δ XXX	202X	2021	KH

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



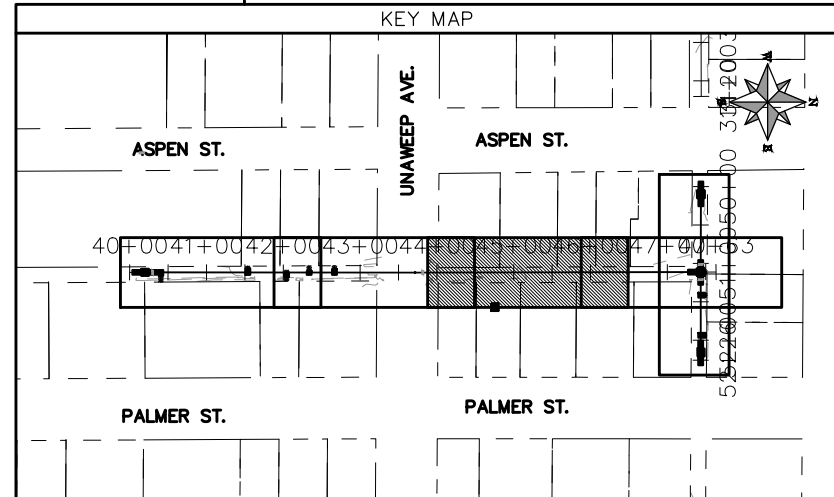
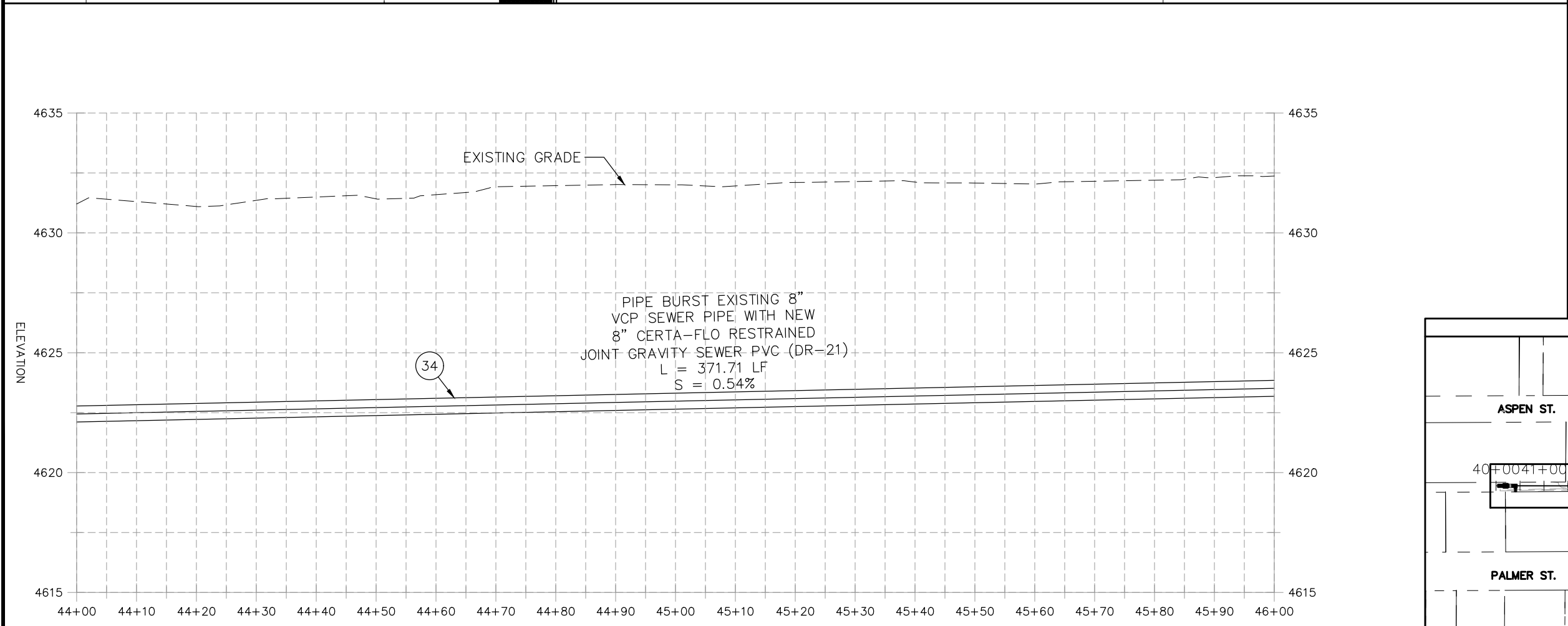
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 42+00 TO STA 44+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (10" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
  - 672 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 786 208 - EROSION CONTROL LOG
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 827 PROTECT IRRIGATION DITCH

NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



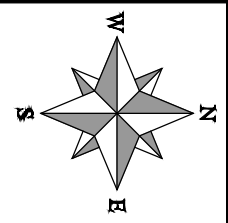
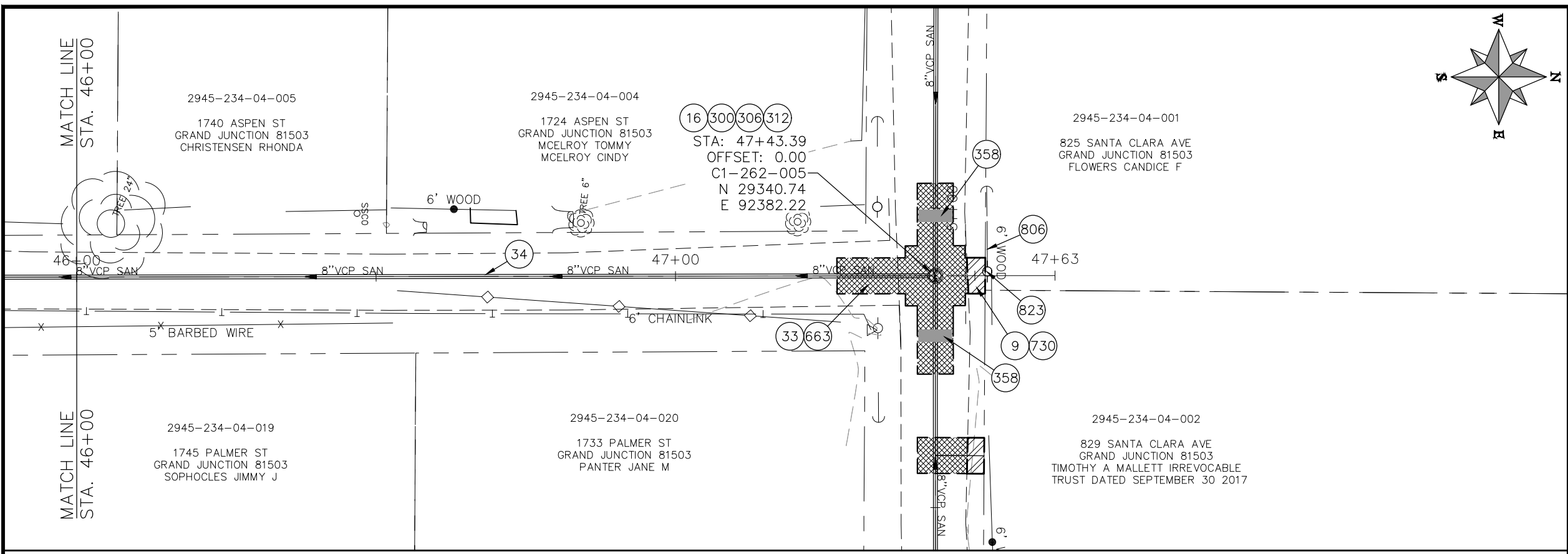
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 04/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

SCALES: PLAN & PROFILE  
 HORIZONTAL: 1" = 20'  
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 VERTICAL: 1" = 5'  
 0 1.25 2.5 5



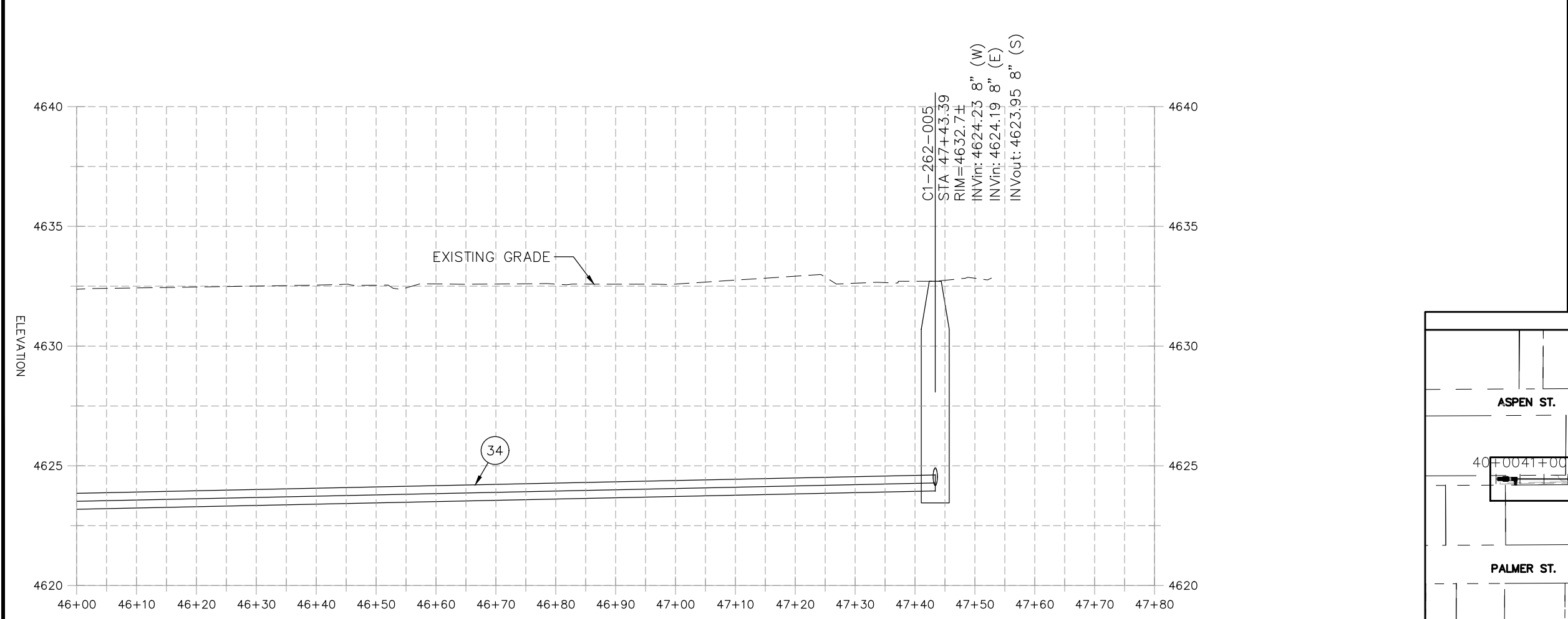
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 44+00 TO STA 46+00**

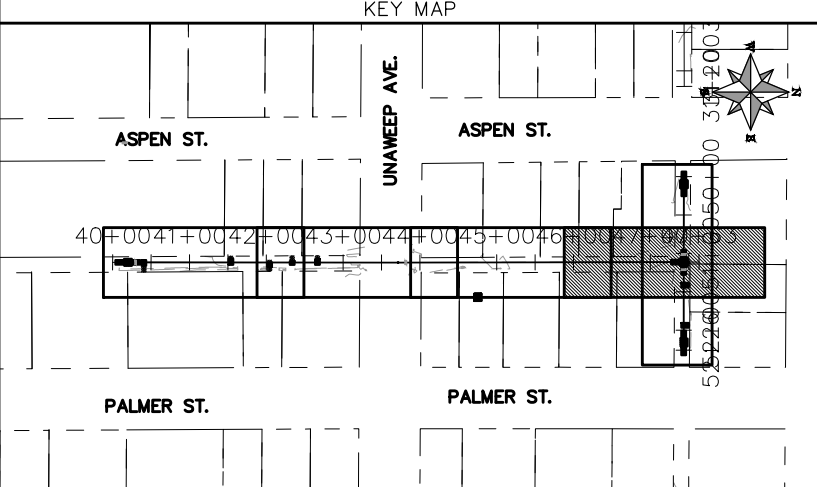


CONSTRUCTION NOTES

- 9 202 - REMOVAL OF SOD.
- 16 202 - REMOVAL OF MANHOLE
- 33 202 - REMOVE EXISTING SURFACE MATERIAL
- 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
- 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- 806 PROTECT FENCE
- 823 PROTECT UTILITY POLE



NOTE:  
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REVISION	DESCRIPTION	DATE	PROJECT NO. ###
REVISION Δ XXX		202X	DRAWN BY DJM DATE 04/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

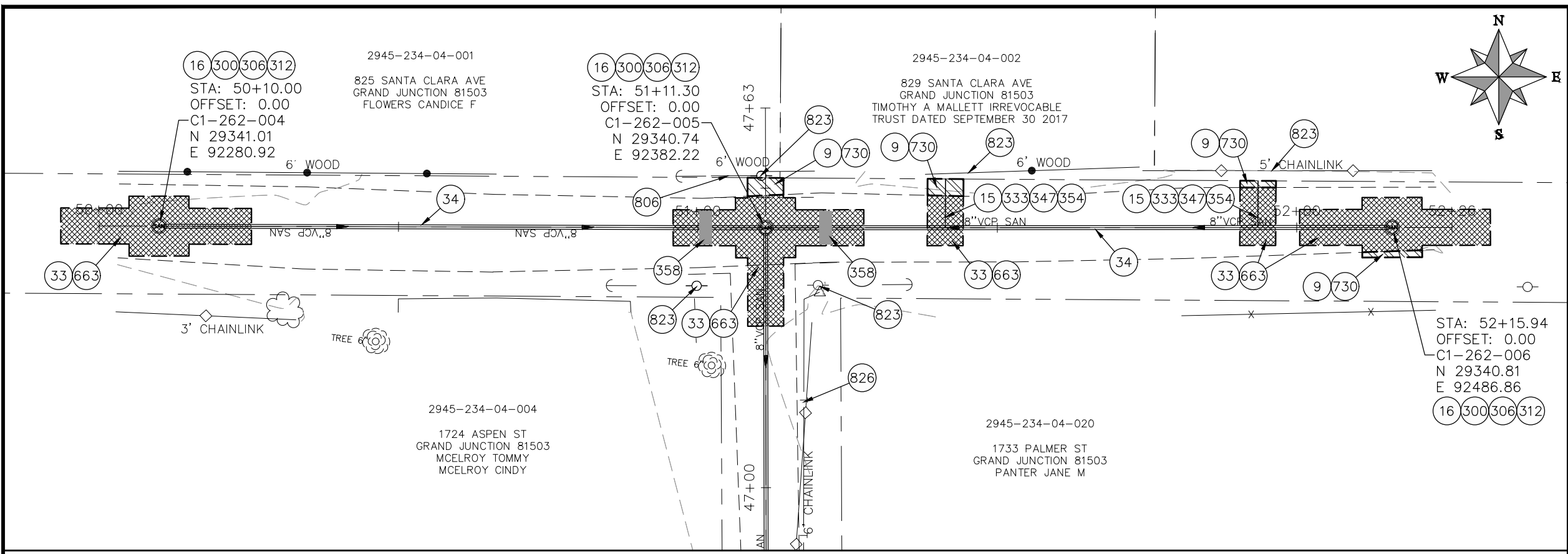


PUBLIC WORKS  
ENGINEERING DIVISION

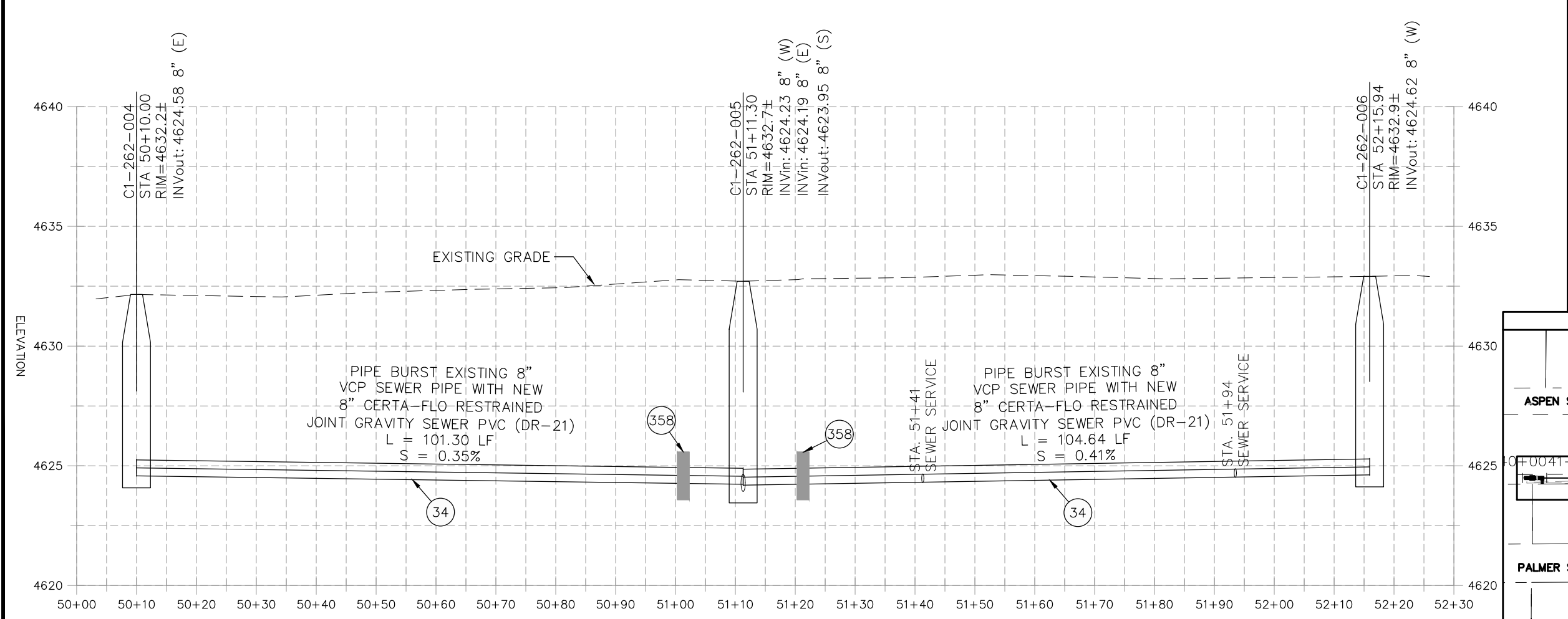
2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 46+00 TO STA 47+63

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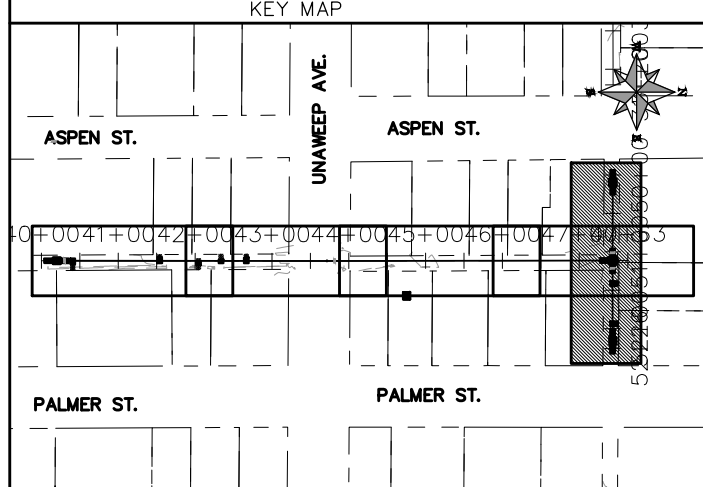




- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 823 PROTECT UTILITY POLE
- NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



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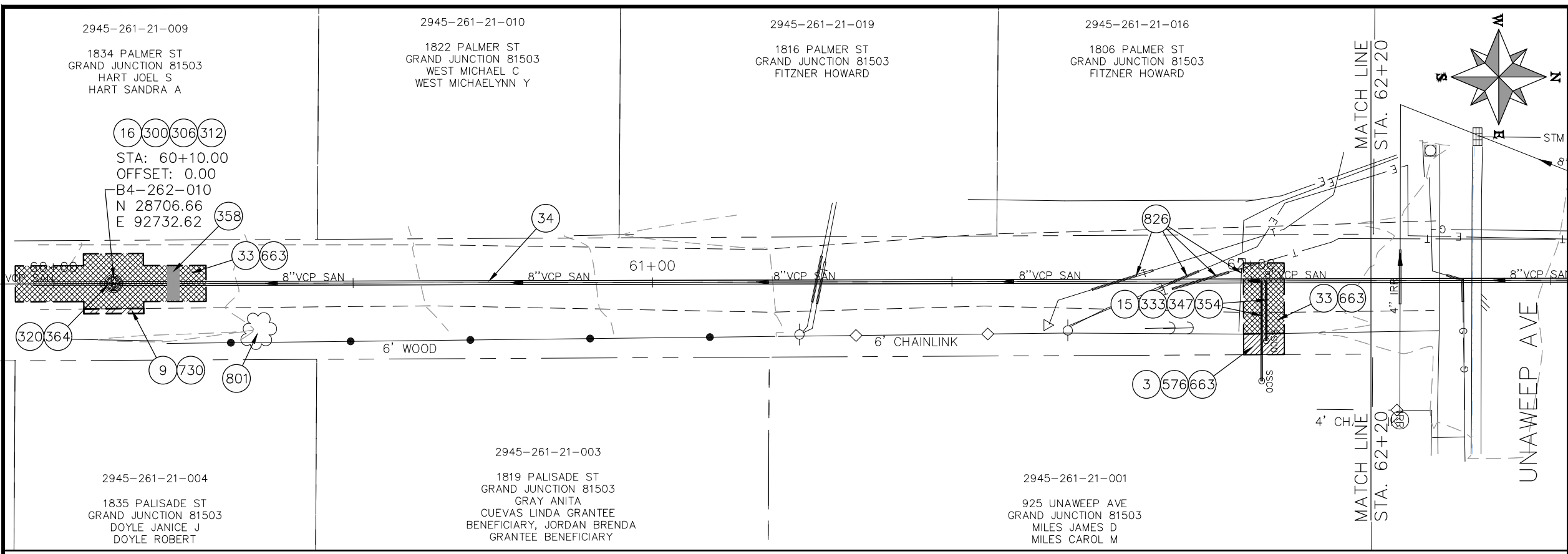


REVISION	DESCRIPTION	DATE	PROJECT NO. ###	SCALES: PLAN & PROFILE
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REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021	0 5 10 20
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021	VERTICAL: 1" = 5'
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021	0 1.25 2.5 5

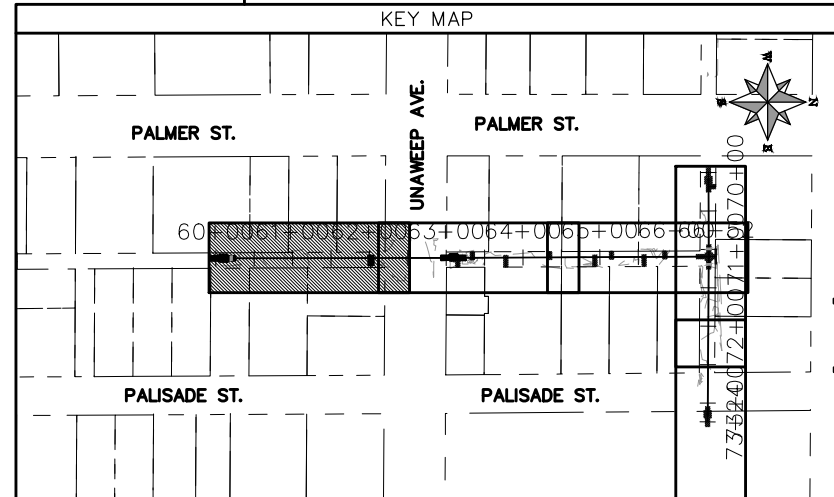
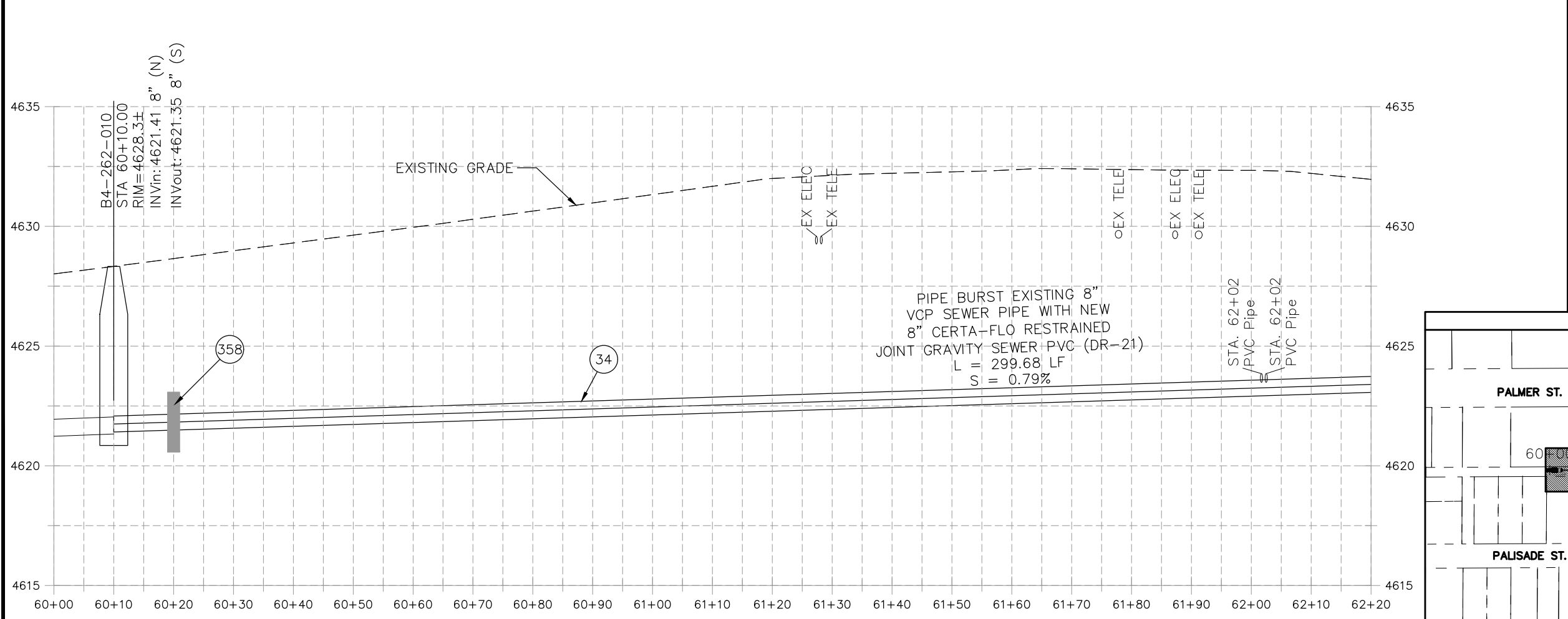


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST & PALMER ST ALLEY PLAN AND PROFILE  
STA 50+00 TO STA 52+30**



- CONSTRUCTION NOTES**
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.)
  - 307 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (60" I.D.)
  - 310 102.11/108.5 - CONNECT TO EXISTING MANHOLE (6" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08)
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
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REVISION	DESCRIPTION	DATE	PROJECT NO. ###
REVISION Δ XXX		202X	DRAWN BY DJM DATE 04/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021
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REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

SCALES: PLAN & PROFILE

HORIZONTAL: 1" = 20'

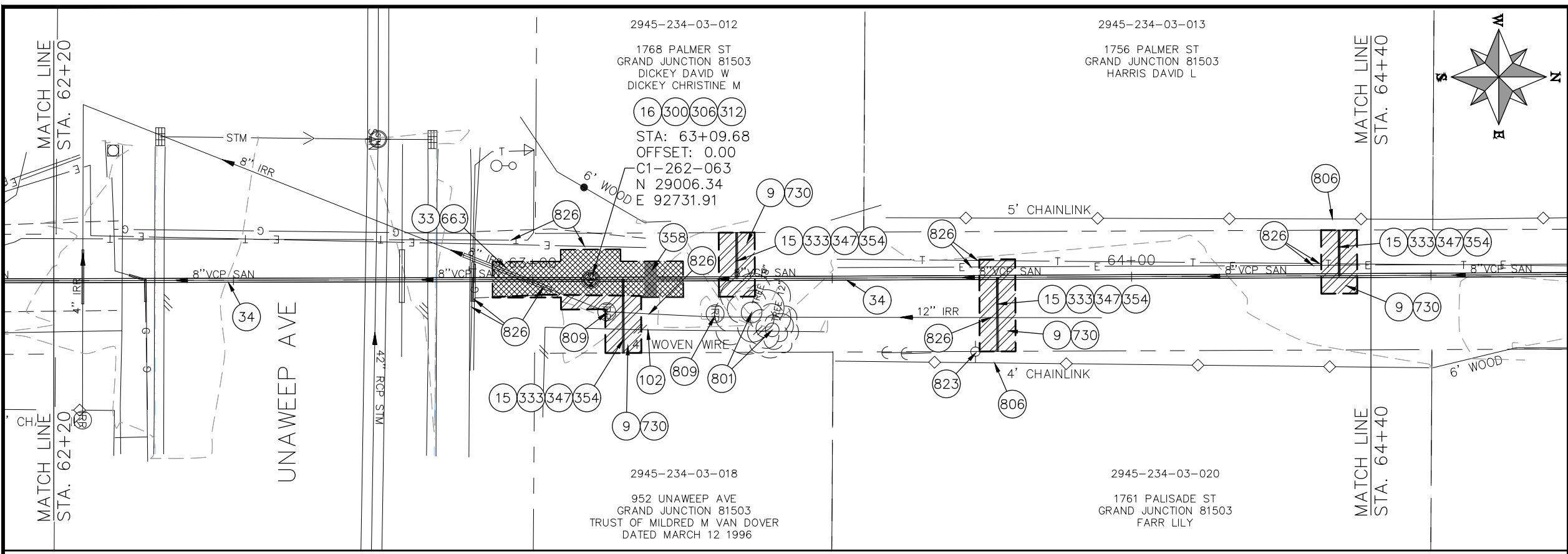
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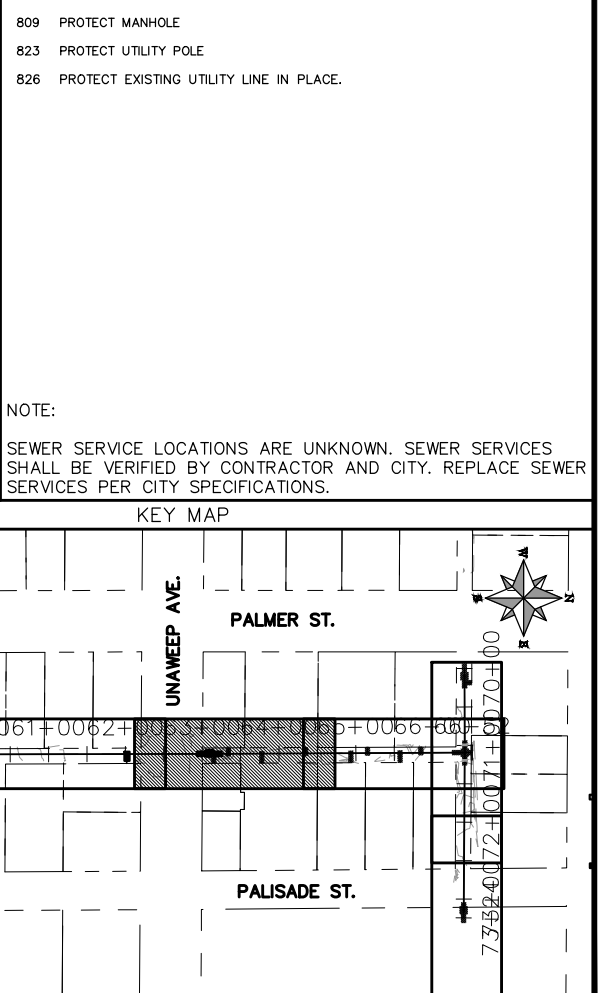
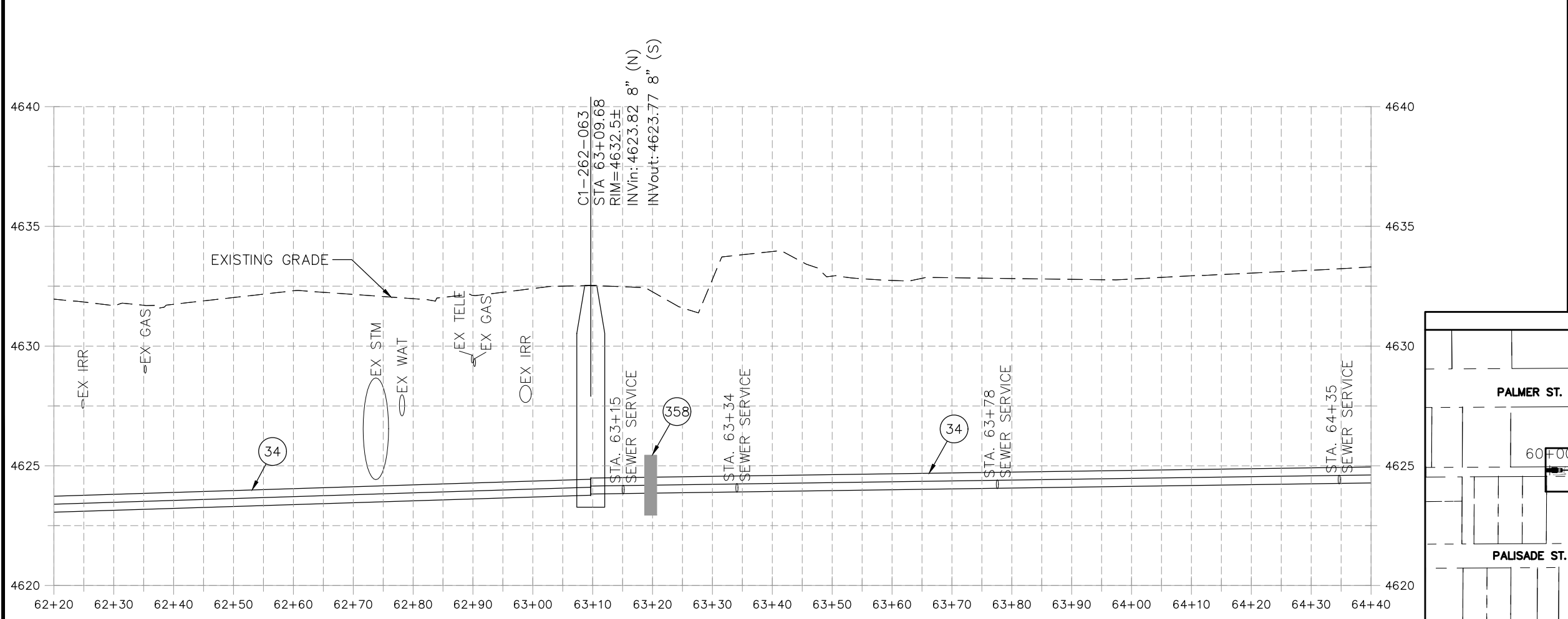
**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 60+00 TO STA 62+20**

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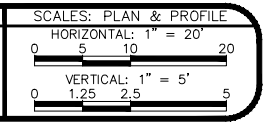
- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 806 PROTECT FENCE
  - 809 PROTECT MANHOLE
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
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REVISION	DESCRIPTION	DATE	PROJECT NO. ####
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REVISION Δ XXX		202X	
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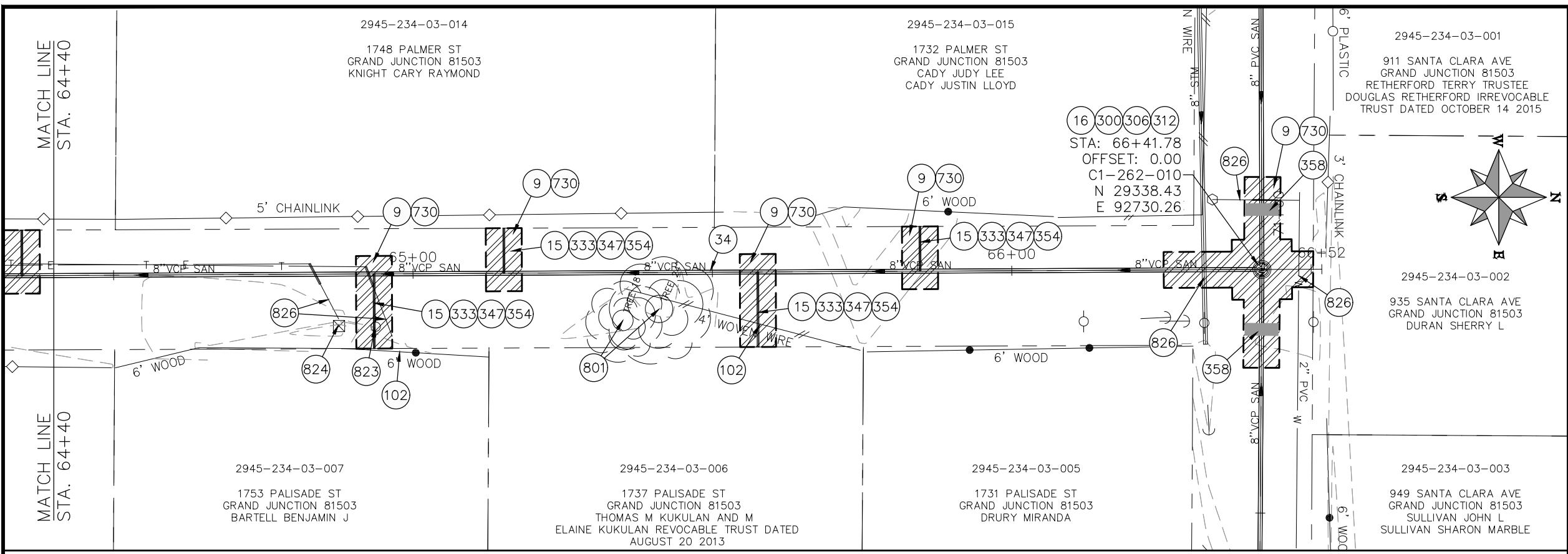
  

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DESIGNED BY	DJM	DATE	4/2021
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APPROVED BY	KH	DATE	2021

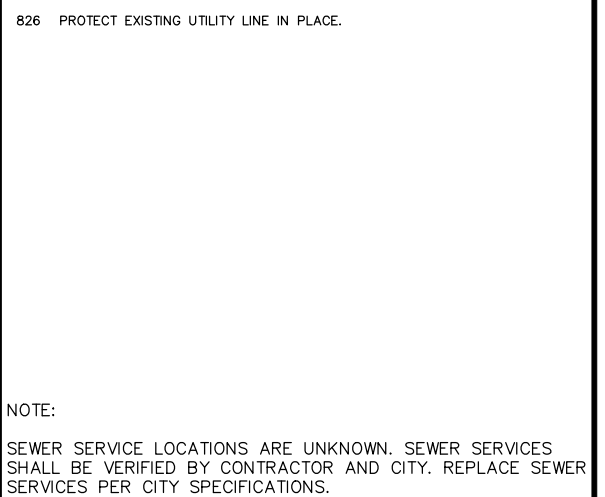
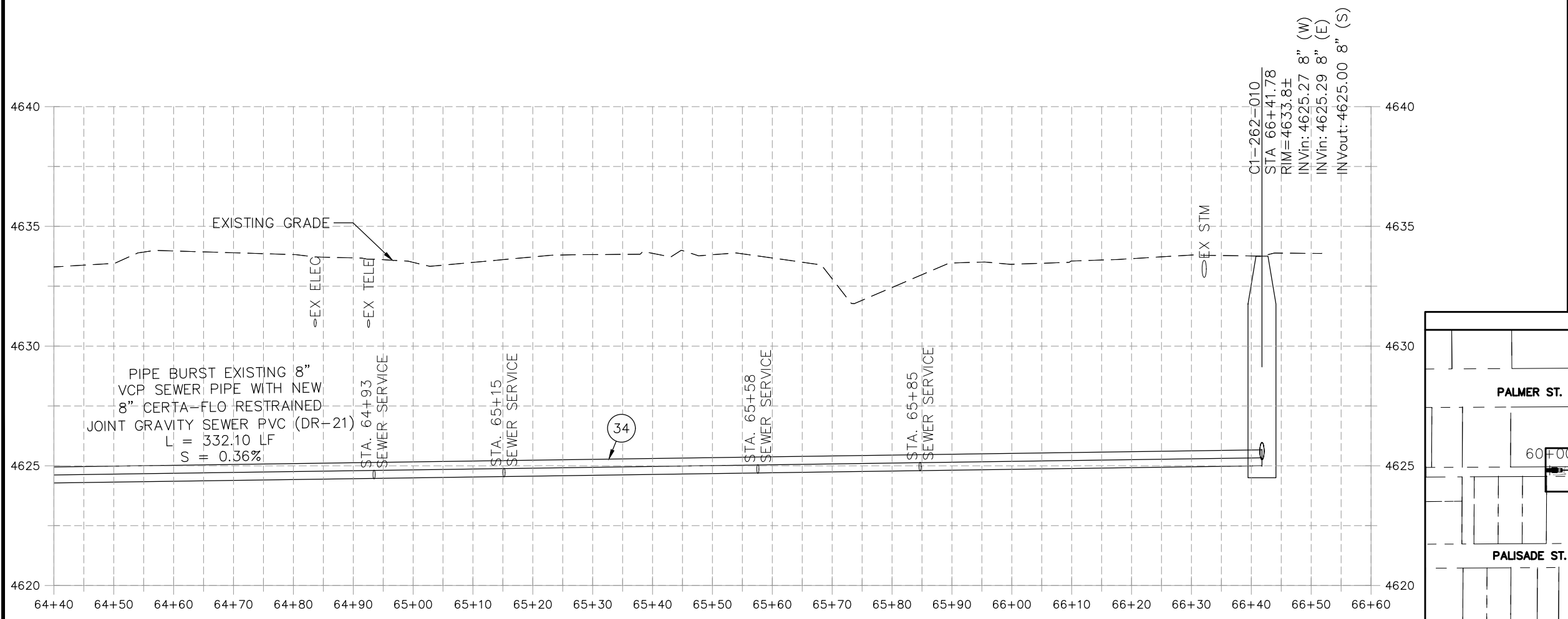


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 62+20 TO STA 64+40**



- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 801 PROTECT TREE
  - 823 PROTECT UTILITY POLE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
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REVISION Δ XXX		202X	CHECKED BY EM DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

SCALES: PLAN & PROFILE

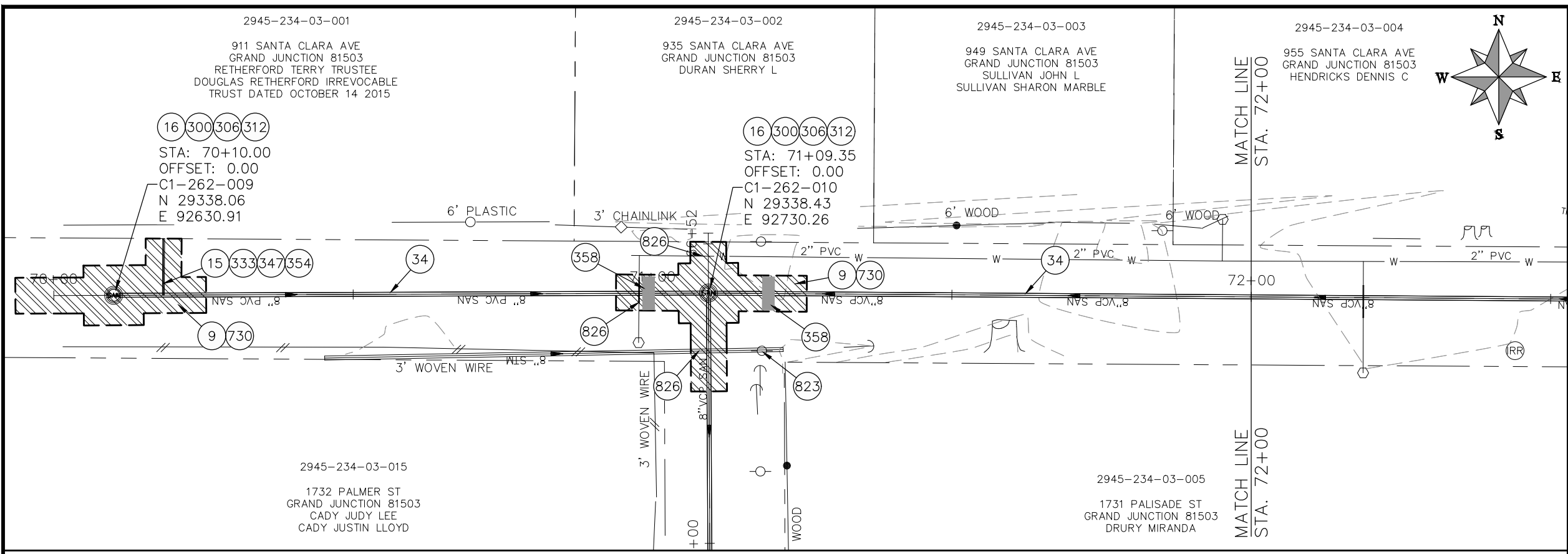
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VERTICAL: 1" = 5'

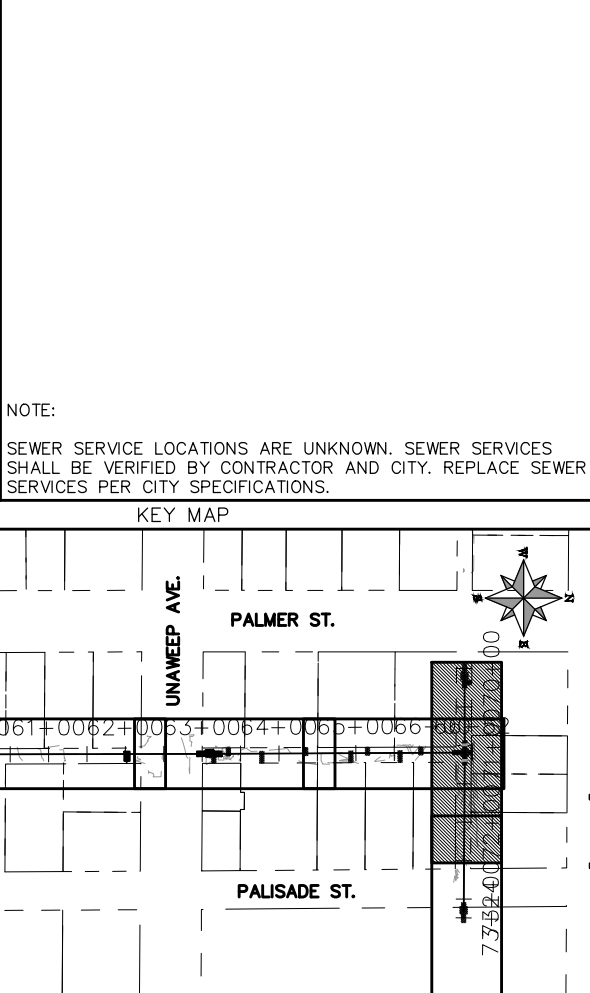
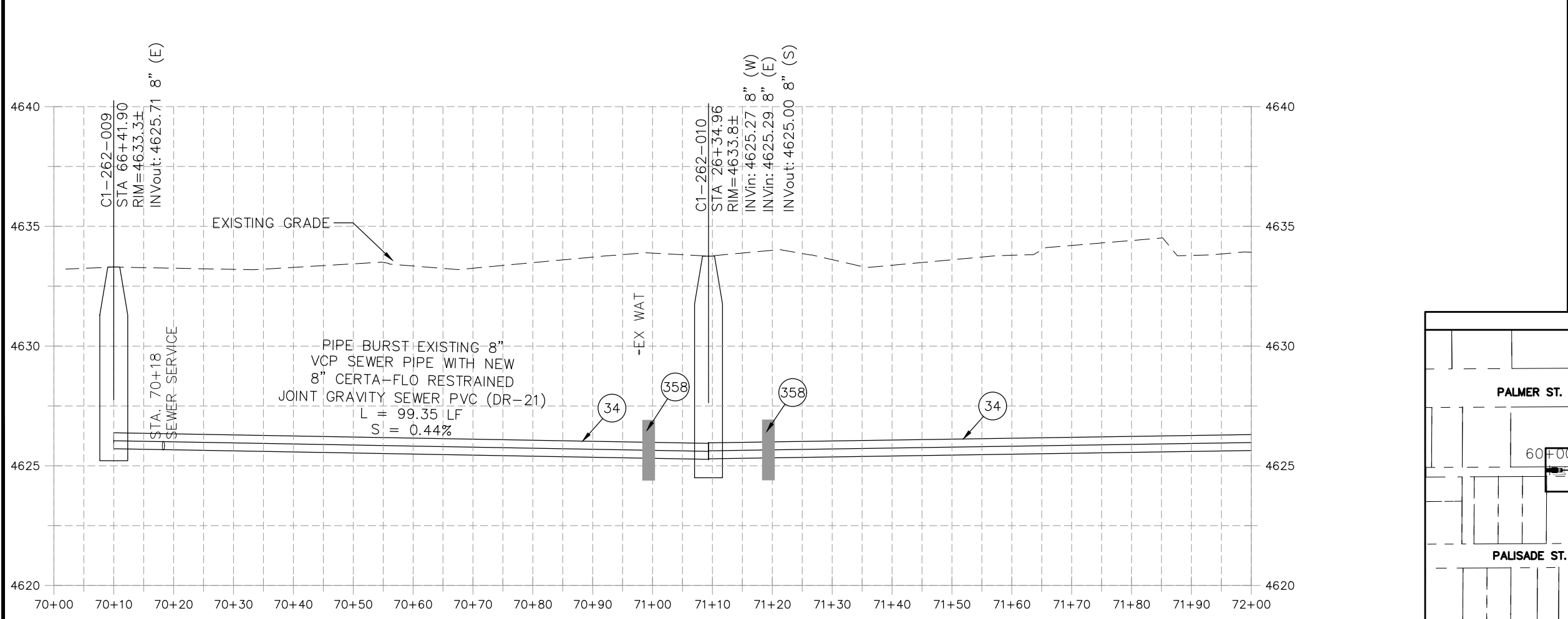


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 62+20 TO STA 64+40**



- CONSTRUCTION NOTES**
- 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>S') (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO. ###
REVISION Δ XXX		202X	DRAWN BY DJM DATE 04/2021
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 4/2021
REVISION Δ XXX		202X	CHECKED BY EM DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH DATE 2021

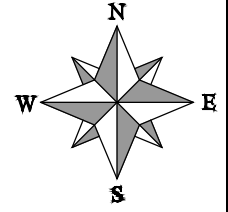
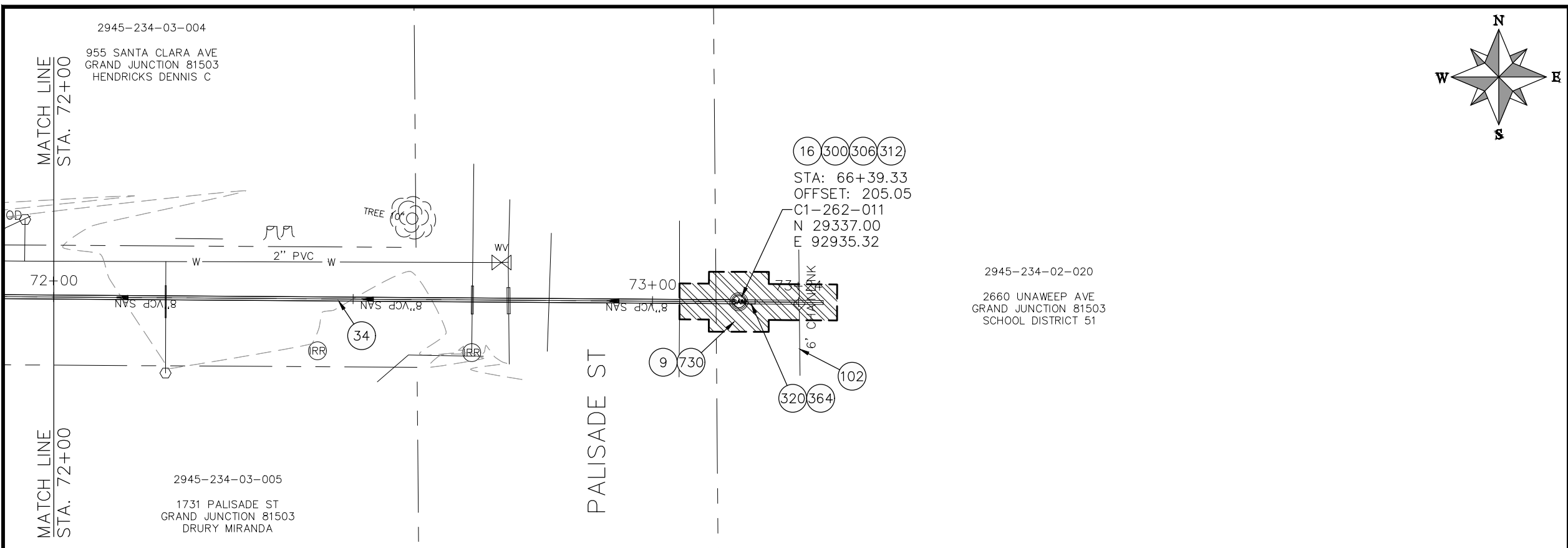
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HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

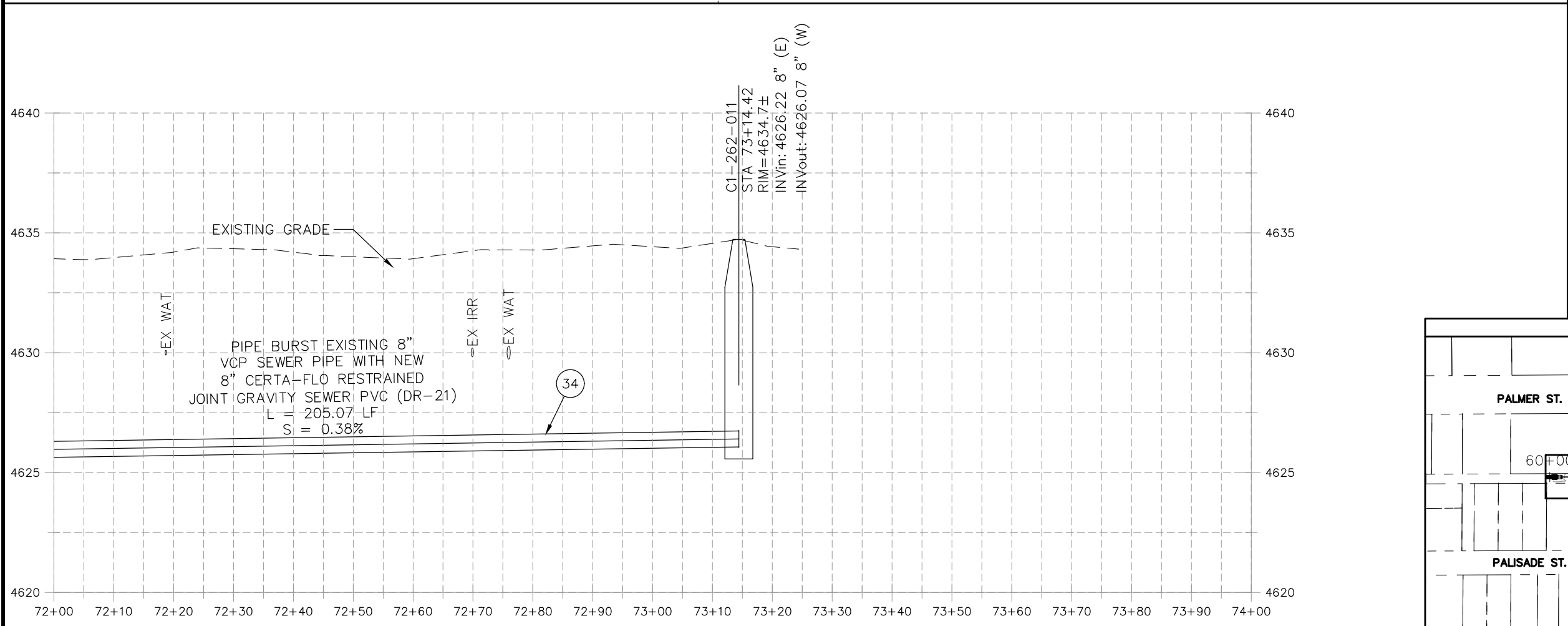
**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 70+00 TO 72+00**

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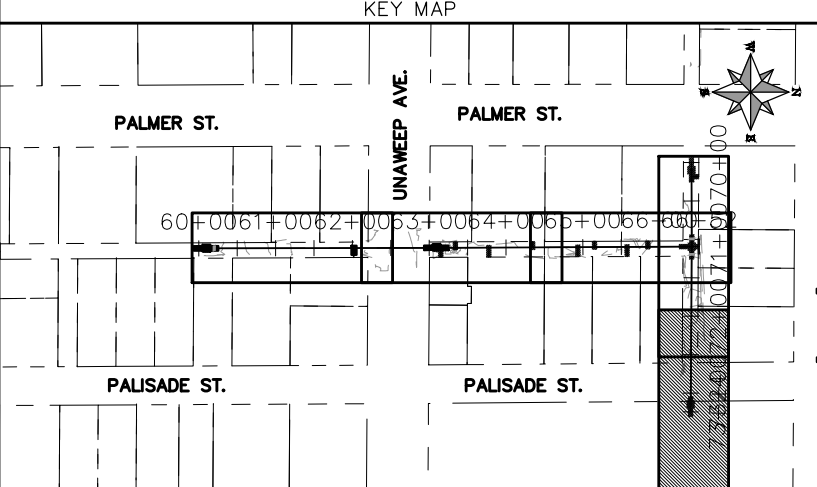


CONSTRUCTION NOTES

- 9 202 - REMOVAL OF SOD.
- 16 202 - REMOVAL OF MANHOLE
- 33 202 - REMOVE EXISTING SURFACE MATERIAL
- 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL BUSINESSES DURING INSTALLATION.
- 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
- 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)



NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



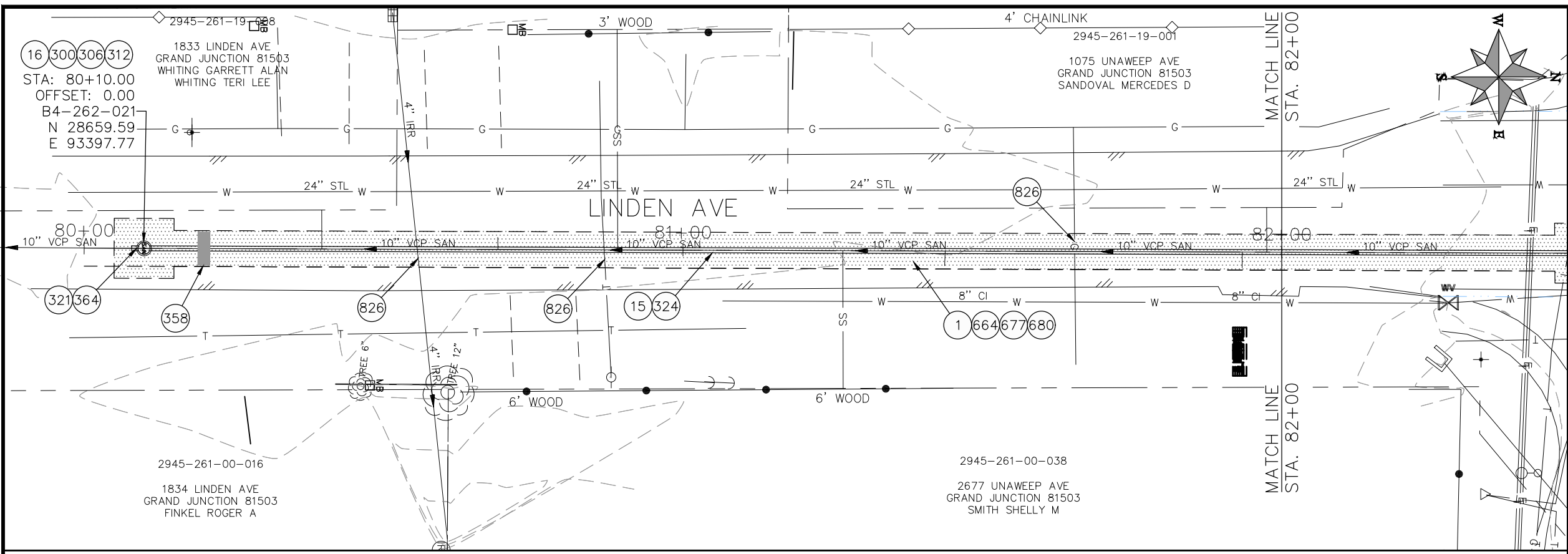
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REVISION Δ XXX		202X	DJM	4/2021
REVISION Δ XXX		202X	EM	2021
REVISION Δ XXX		202X	KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



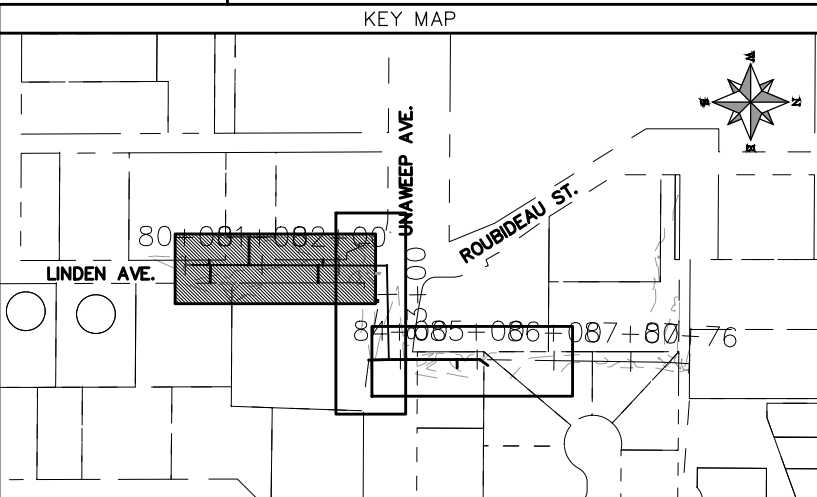
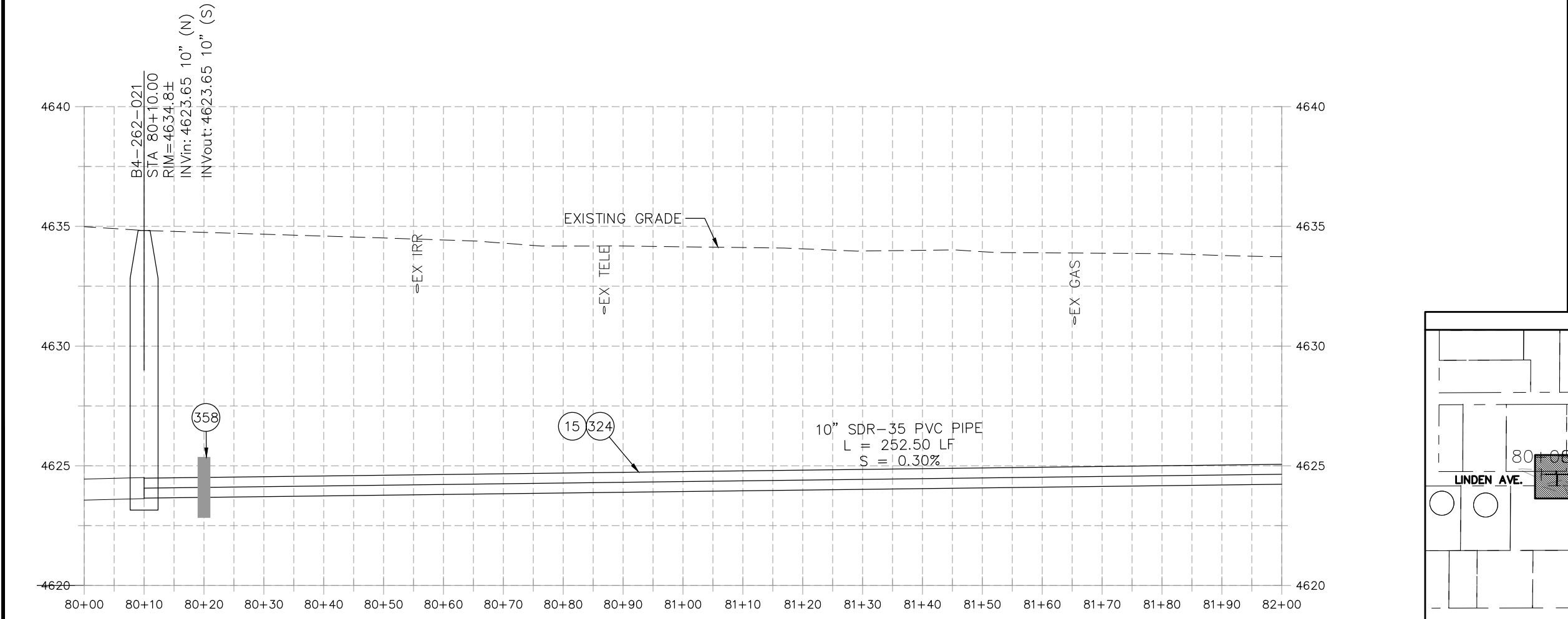
PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 72+00 TO STA 73+24



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS) (APPLIES ONLY TO 1ST STREET SEWER MANHOLES)
  - 321 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (10" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.

NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



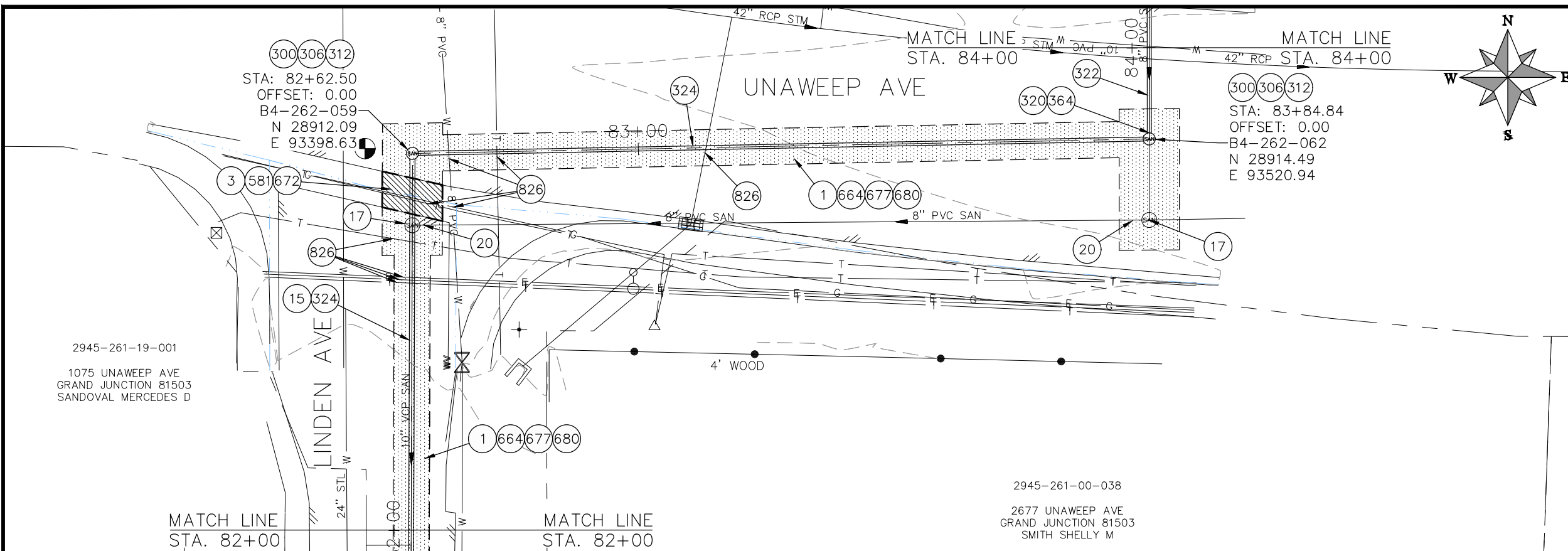
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REVISION Δ XXX		202X	---	4/2021
REVISION Δ XXX		202X	---	2021
REVISION Δ XXX		202X	---	2021

SCALE	DATE	BY
HORIZONTAL: 1" = 20'	04/2021	DJM
VERTICAL: 1" = 5'	4/2021	DJM
	2021	EM
	2021	KH

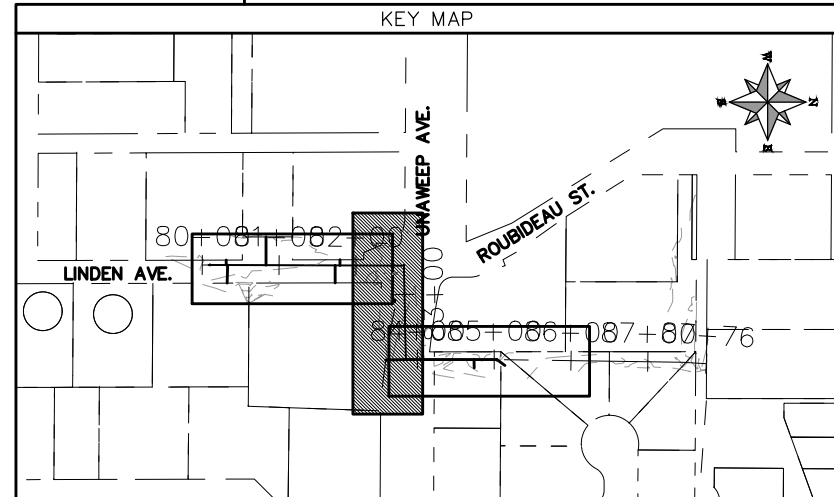
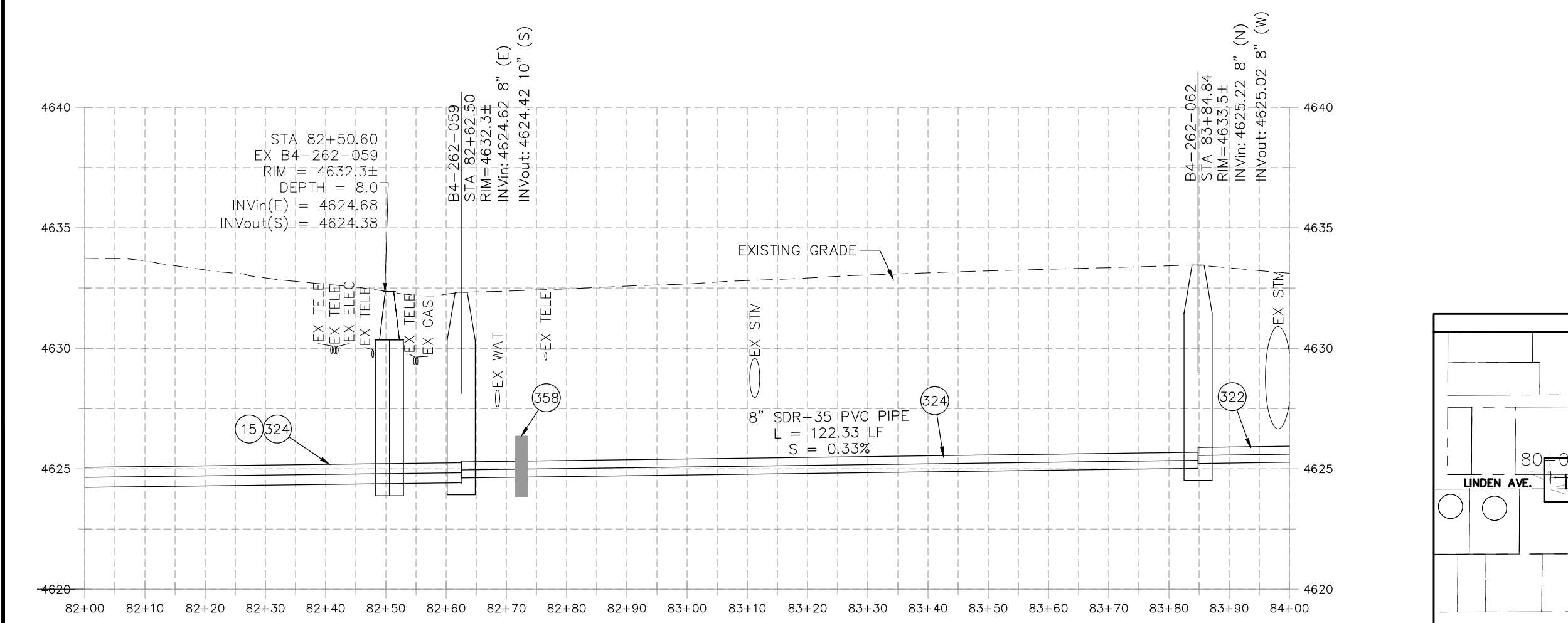


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 80+00 TO STA 82+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL.
  - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>S) (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS) (APPLIES ONLY TO 1ST STREET SEWER MANHOLES)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" PVC PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 322 102.9/108.2 - 8" GRAVITY SEWER PIPE (CERTA-FLO PVC GRAVITY SEWER PIPE) (ASTM D2241) (JOINT TYPE: CERTA-LOK RESTRAINED JOINT INTEGRAL BELL) (SDR-21 AND 20-FT PIPE LENGTHS).
  - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 581 608.06 - CONCRETE DRAINAGE PAN (6' WIDE)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 672 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	---	04/2021
REVISION Δ XXX		202X	---	4/2021
REVISION Δ XXX		202X	---	2021
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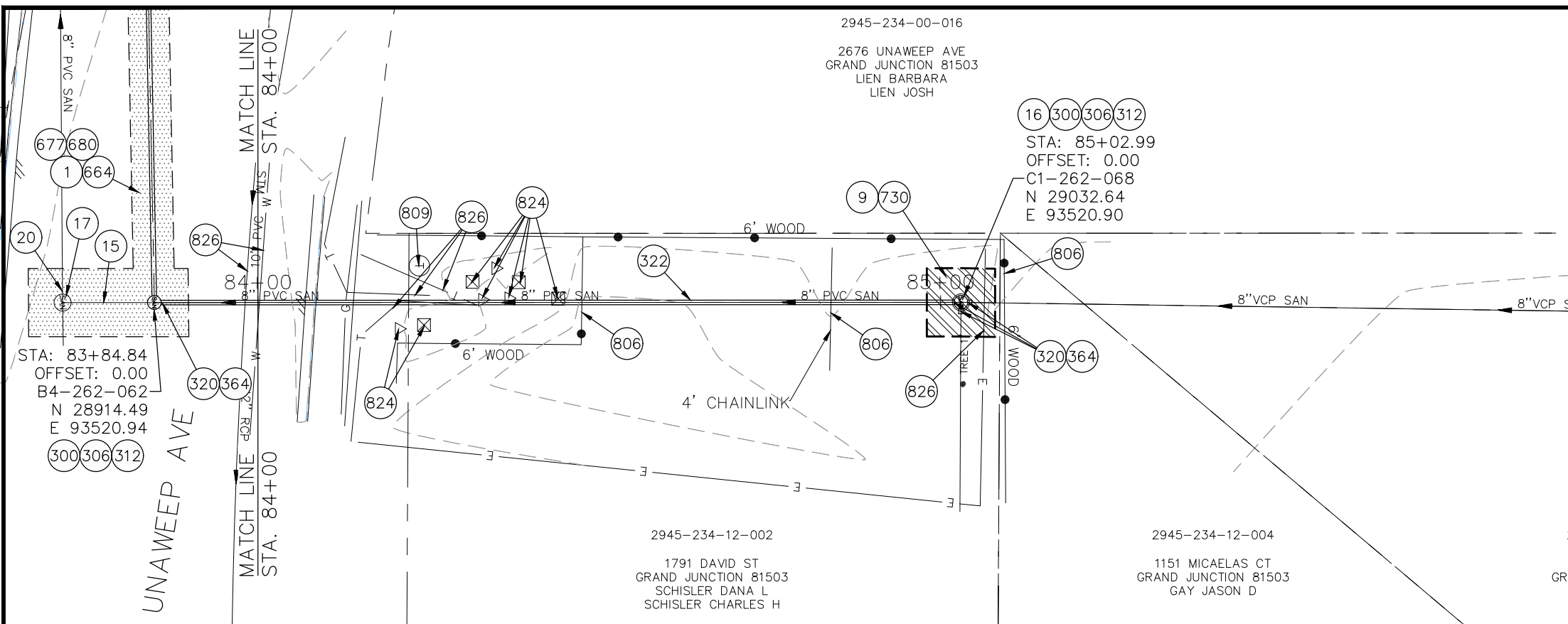
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VERTICAL: 1" = 5'	4/2021



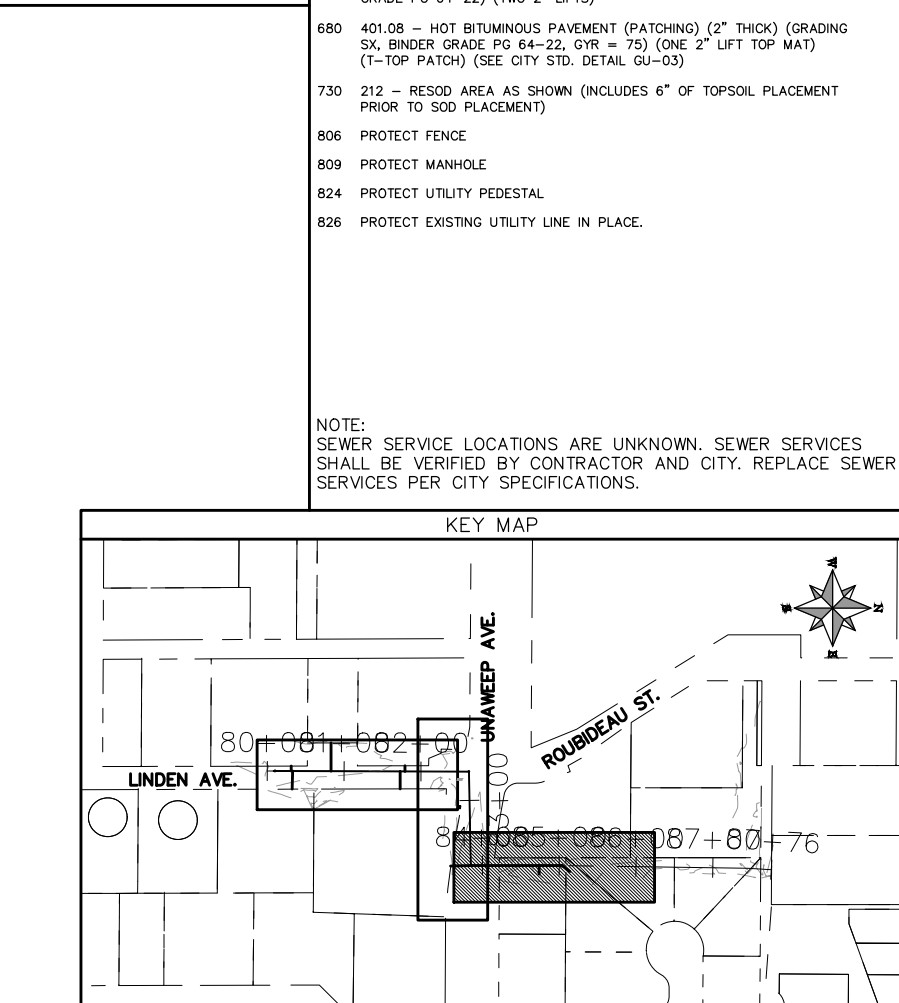
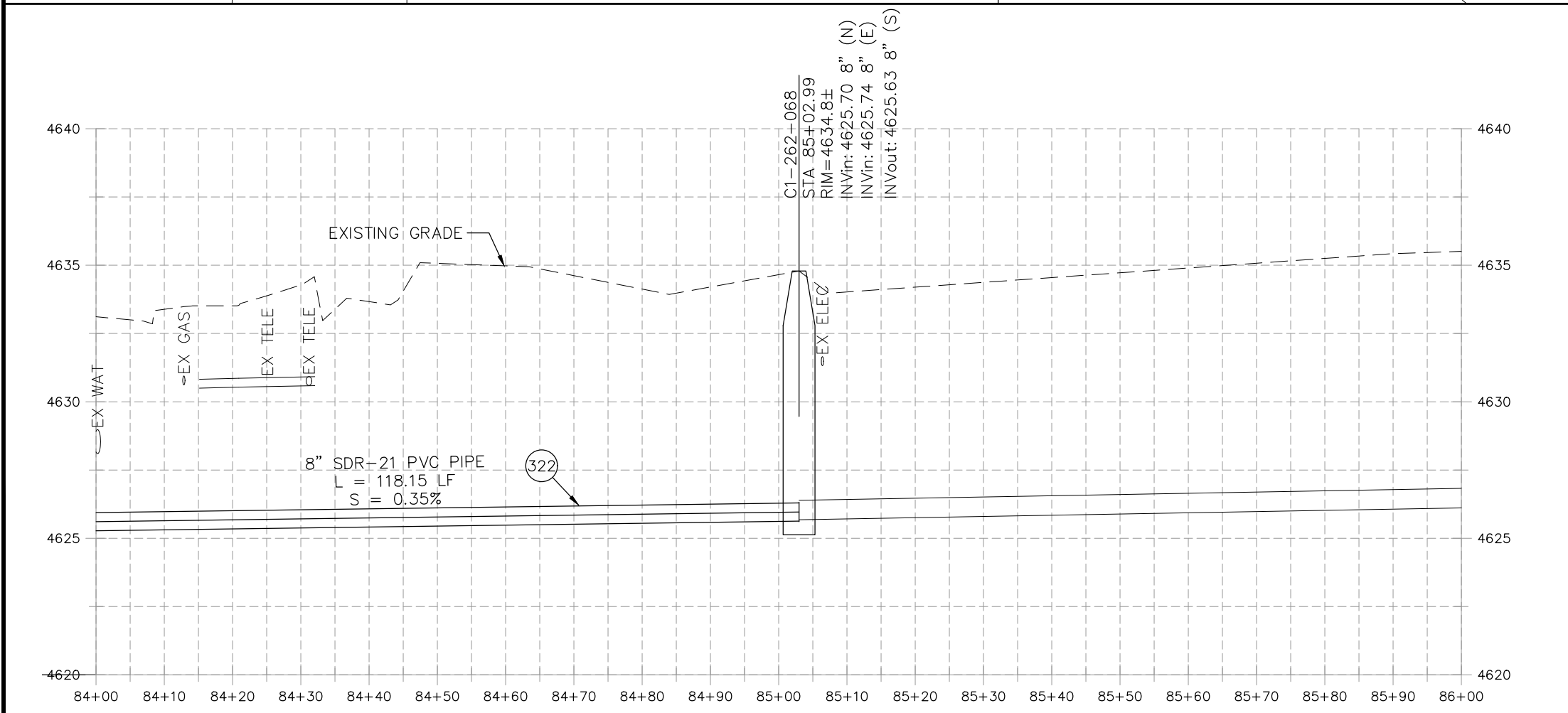
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 82+00 TO STA 84+00**





- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 9 202 - REMOVAL OF SOD
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL.
  - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS) (APPLIES ONLY TO 1ST STREET SEWER MANHOLES)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" PVC PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 322 102.9/108.2 - 8" GRAVITY SEWER PIPE (CERTA-FLO PVC GRAVITY SEWER PIPE) (ASTM D2241) (JOINT TYPE: CERTA-LOK RESTRAINED JOINT INTEGRAL BELL) (SDR-21 AND 20-FT PIPE LENGTHS).
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 806 PROTECT FENCE
  - 809 PROTECT MANHOLE
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
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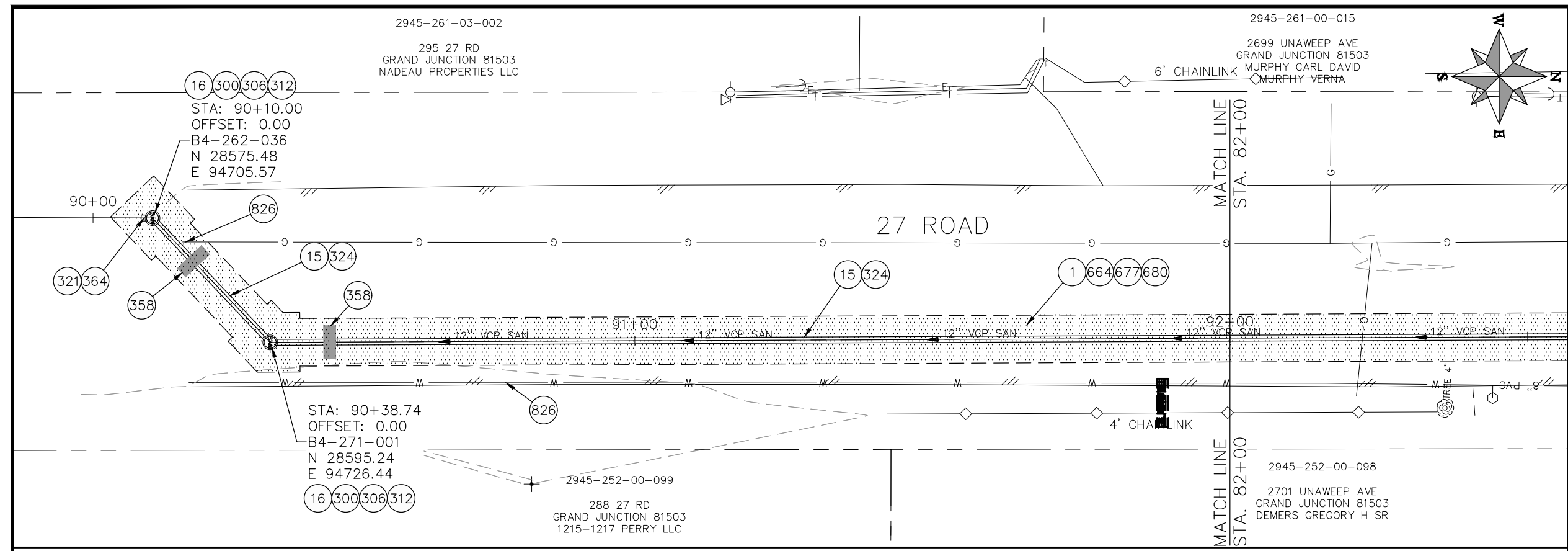
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REVISION Δ XXX		202X		4/2021
REVISION Δ XXX		202X		2021
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SCALE	DESCRIPTION
HORIZONTAL: 1" = 20'	
VERTICAL: 1" = 5'	

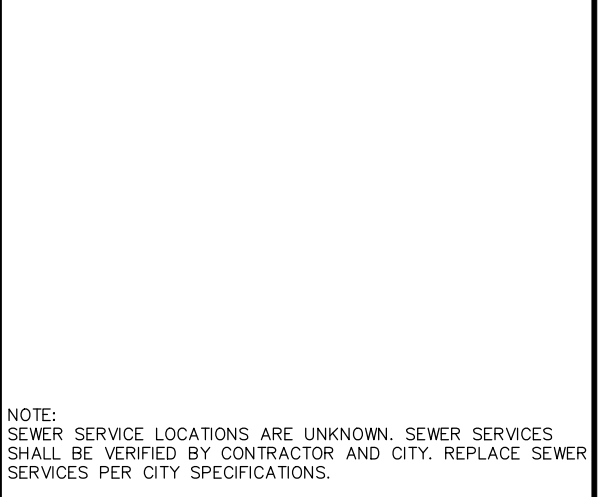
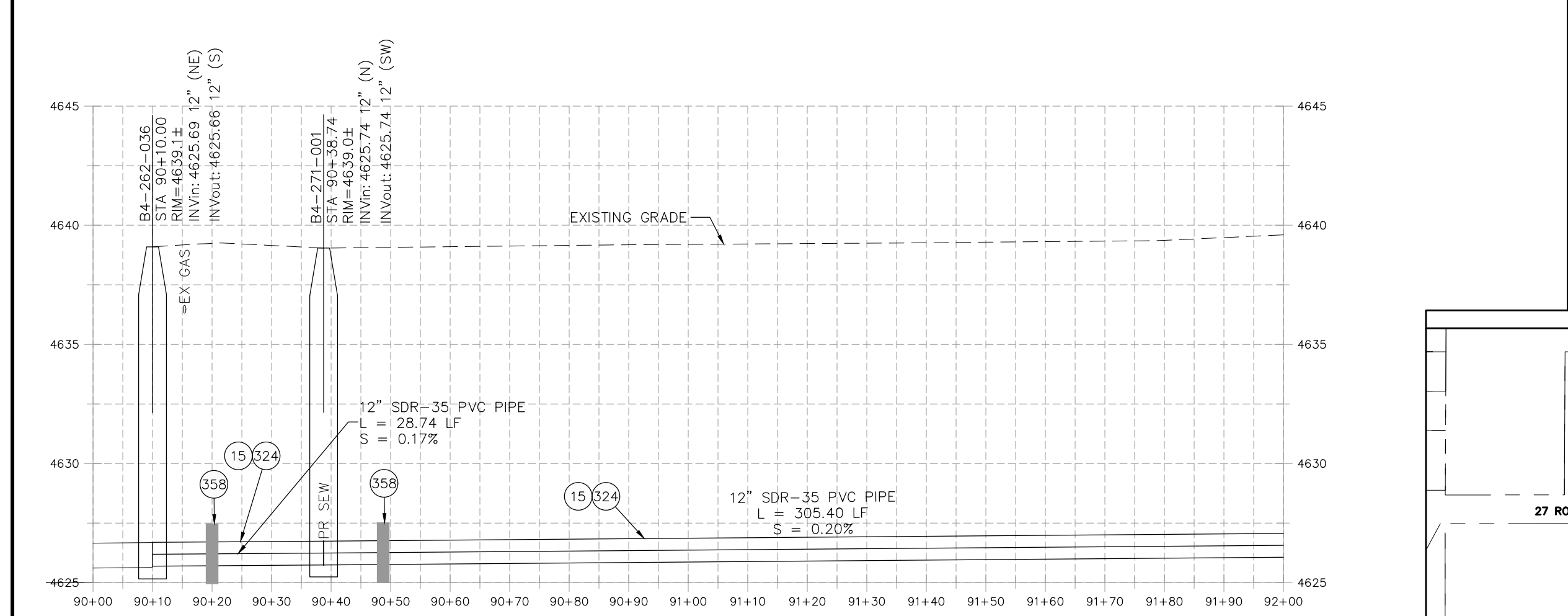


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 84+00 TO STA 86+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS) (APPLIES ONLY TO 1ST STREET SEWER MANHOLES)
  - 321 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (12" VCP PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
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REVISION	DESCRIPTION	DATE	PROJECT NO.
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REVISION Δ XXX		202X	----
REVISION Δ XXX		202X	----
REVISION Δ XXX		202X	----

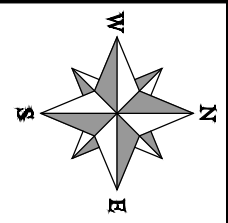
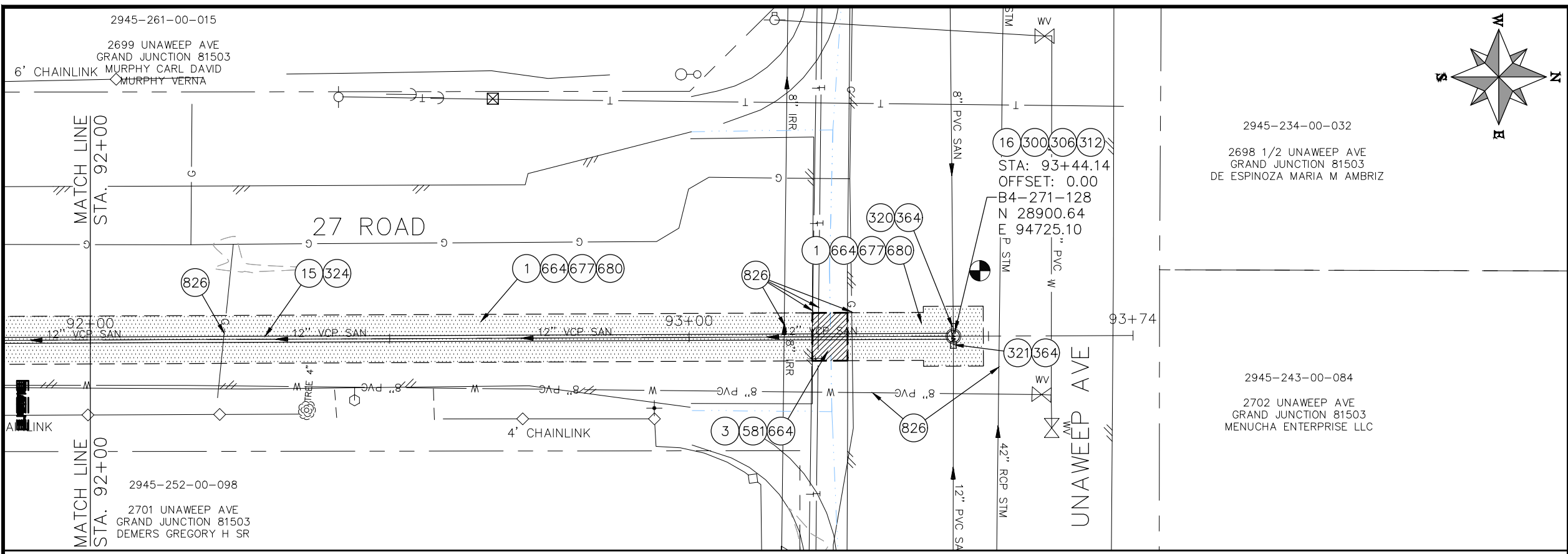
DATE	BY	DATE
04/2021	DJM	DATE
4/2021	DJM	DATE
2021	EM	DATE
2021	KH	DATE

SCALES: PLAN & PROFILE  
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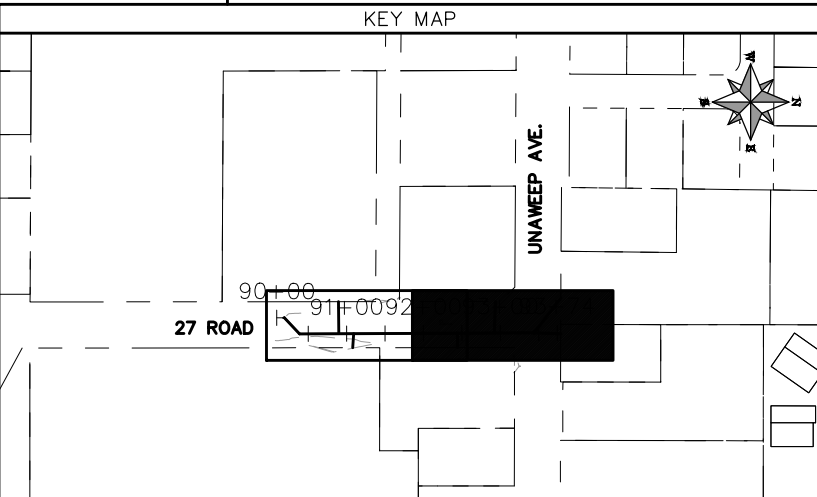
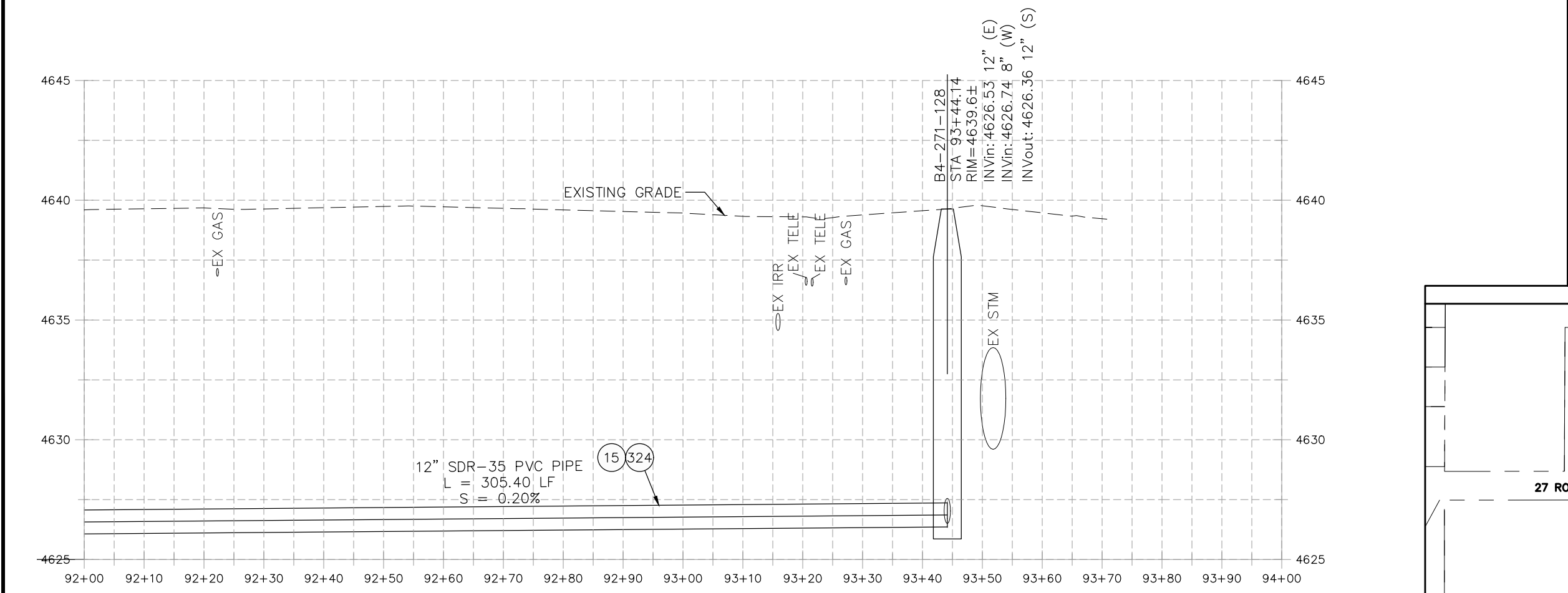


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
27 ROAD PLAN AND PROFILE  
STA 90+00 TO STA 92+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
  - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
  - 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS) (APPLIES ONLY TO 1ST STREET SEWER MANHOLES)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" PVC PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 321 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (12" PVC PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
  - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - 581 608.06 - CONCRETE DRAINAGE PAN (6' WIDE)
  - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE:  
SEWER SERVICE LOCATIONS ARE UNKNOWN. SEWER SERVICES SHALL BE VERIFIED BY CONTRACTOR AND CITY. REPLACE SEWER SERVICES PER CITY SPECIFICATIONS.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	----	04/2021
REVISION Δ XXX		202X		4/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
27 ROAD PLAN AND PROFILE  
STA 92+00 TO STA 94+00**

2945-252-01-004  
2945-252-01-010  
2945-252-01-003

294 PINE ST  
GRAND JUNCTION 81503  
BRENNAN MICHAEL F  
BRENNAN BONNIE J

294 1/2 PINE ST  
GRAND JUNCTION 81503  
WOLFF DAVID JAMES  
WOLFF DANIEL V GRANTEE BENEFICIARY

296 PINE ST  
GRAND JUNCTION 81503  
HILL RODNEY L  
HILL LINDA J

16 300 306 312  
STA: 10+10.00  
OFFSET: 0.00  
B4-271-117  
N 28648.79  
E 96043.71

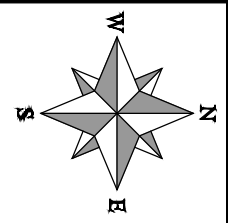
2945-252-33-001  
298 27 1/4 RD  
GRAND JUNCTION 81503  
OBADIA MARC J

2945-252-01-002

2723 UNAWEEP AVE  
GRAND JUNCTION 81503  
MEIXUEIRO MEGAN D  
MEIXUEIRO ALLEN R

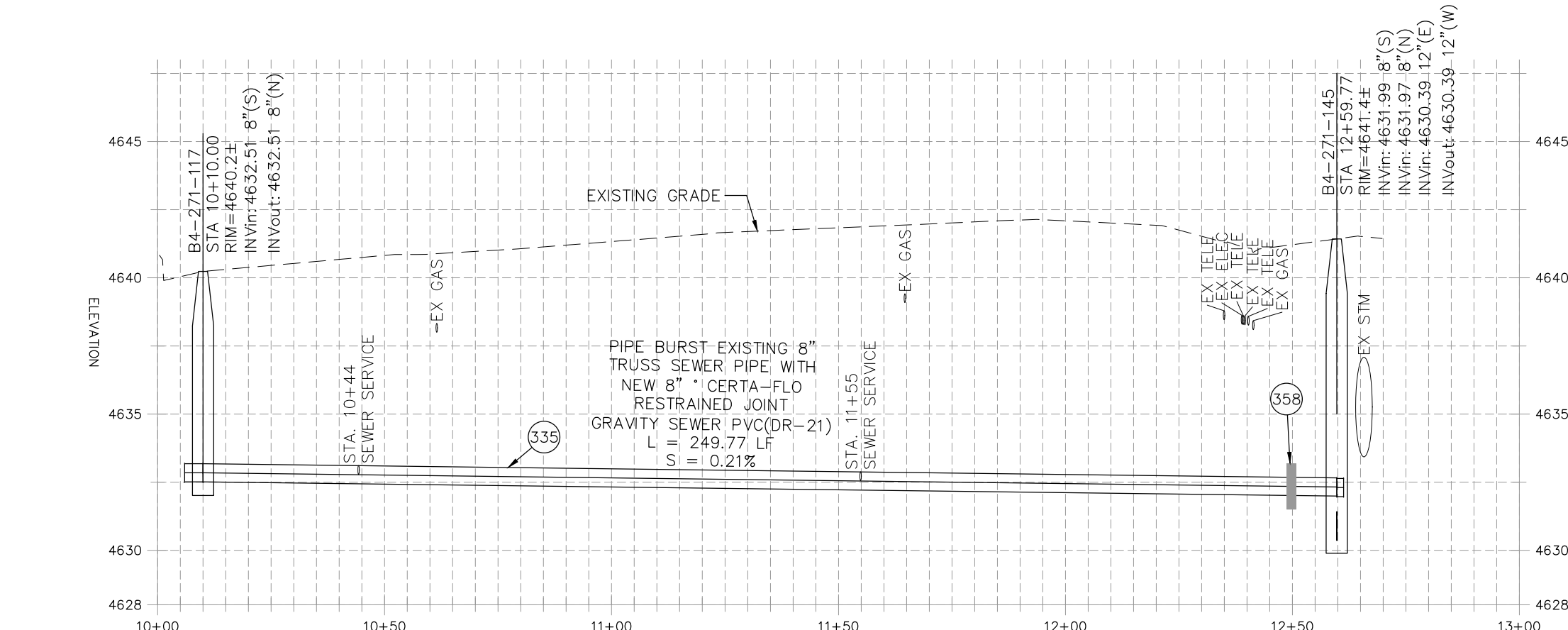
15 333 347 354  
STA: 11+55  
OFFSET: 0.00  
B4-271-145  
N 28898.55  
E 96045.89

2945-252-00-058  
2725 UNAWEEP AVE  
GRAND JUNCTION 81503  
WSENSTINE ANDREW



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 33 202 - REMOVE EXISTING SURFACE MATERIAL
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
- 312 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION) (40 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" AND 12" PIPES). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 335 102.9/108.2 - 8" GRAVITY SEWER PIPE (CERTA-FLO PVC GRAVITY SEWER PIPE)(ASTM D2241) (JOINT TYPE: CERTA-LOK RESTRAINED JOINT INTEGRAL BELL)(SDR-21 AND 20-FT PIPE LENGTHS)
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



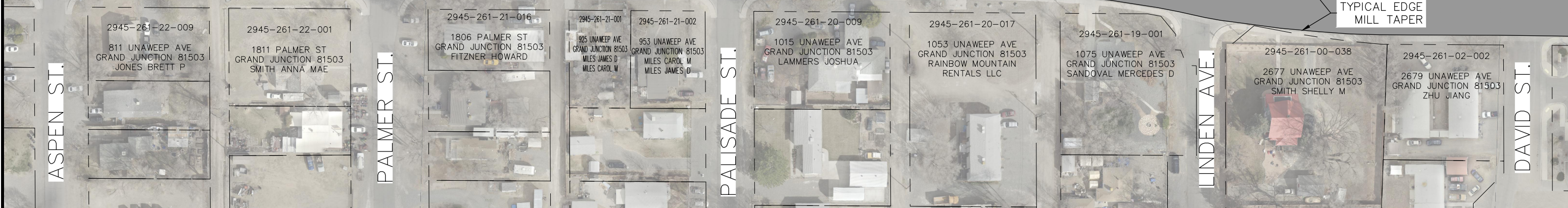
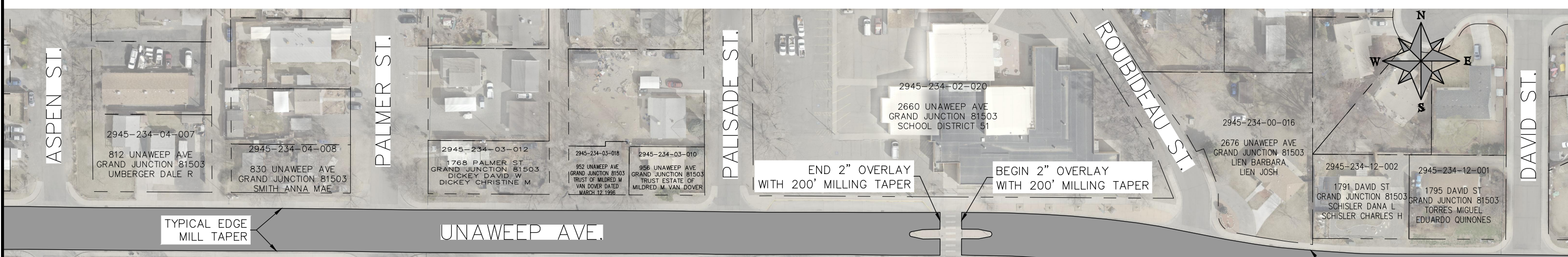
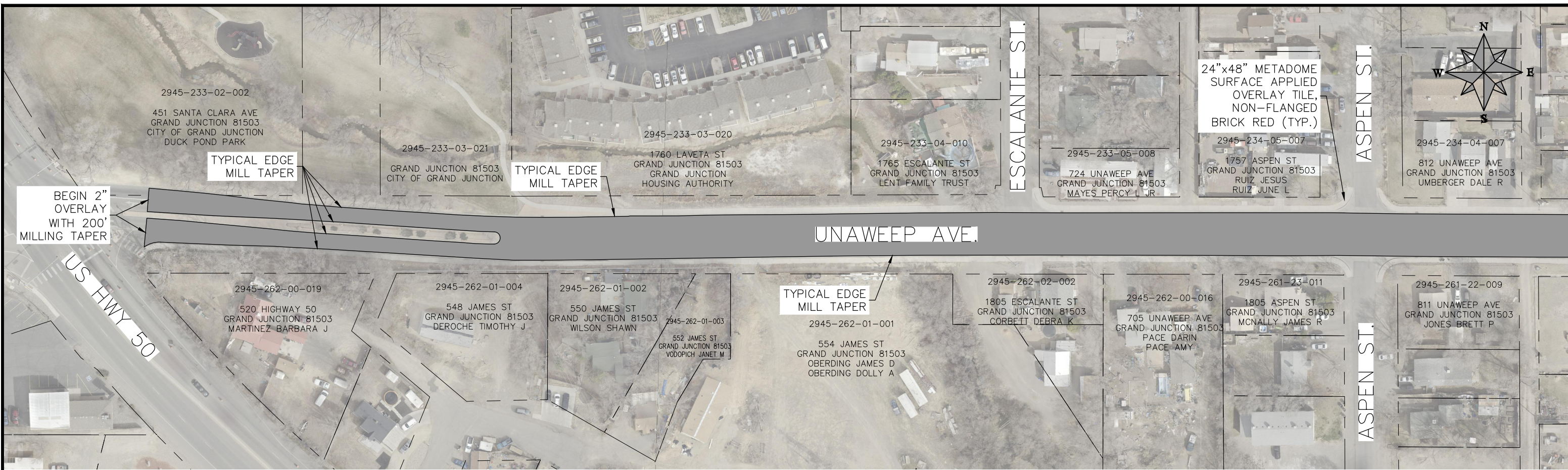
REVISION	DATE	DESCRIPTION
REVISION Δ XXX	202X	PROJECT NO. ----
REVISION Δ XXX	202X	DRAWN BY DJM DATE 04/2021
REVISION Δ XXX	202X	DESIGNED BY DJM DATE 4/2021
REVISION Δ XXX	202X	CHECKED BY EM DATE 2021
REVISION Δ XXX	202X	APPROVED BY KH DATE 2021

SCALE	DESCRIPTION
HORIZONTAL: 1" = 30'	PLAN
VERTICAL: 1" = 5'	PROFILE

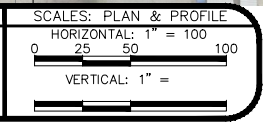


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ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
27 1/4 ROAD PLAN AND PROFILE  
STA 10+00 TO STA 12+00



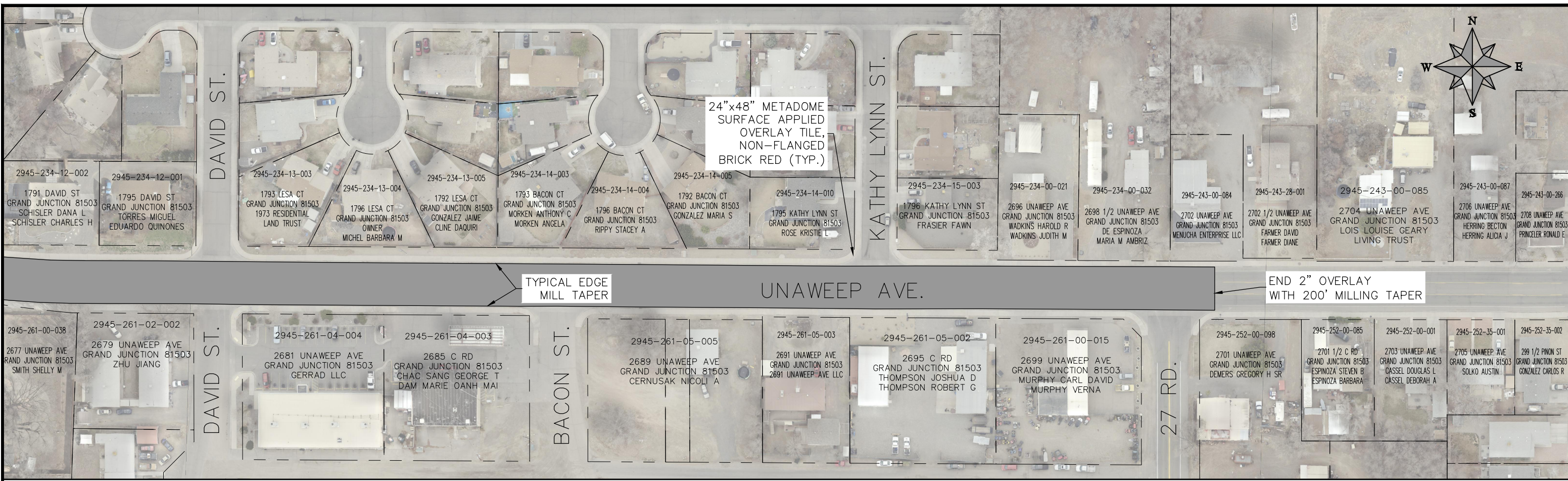
REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	----	05/2021
REVISION Δ XXX		202X		05/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021



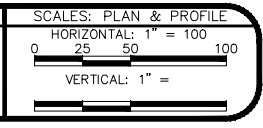
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
UNAWEEP AVE. OVERLAY**

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REVISION	DESCRIPTION	DATE	PROJECT NO. ----
REVISION $\Delta$ XXX		202X	DRAWN BY DJM DATE 05/2021
REVISION $\Delta$ XXX		202X	DESIGNED BY DJM DATE 05/2021
REVISION $\Delta$ XXX		202X	CHECKED BY EM DATE 2021
REVISION $\Delta$ XXX		202X	APPROVED BY KH DATE 2021



PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT – PHASE A  
UNAWEEP AVE. OVERLAY

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24"x48" METADOME  
SURFACE APPLIED  
OVERLAY TILE,  
NON-FLANGED  
BRICK RED (TYP.)

BEGIN 2" OVERLAY  
WITH 200' MILLING TAPER

TIE ASPHALT INTO  
FLOW LINE OF GUTTER

END 2" OVERLAY  
WITH 200' MILLING TAPER

ESCALANTE ST.

UNAWEEP AVE.

SANTA CLARA AVE.

2945-233-04-010  
1765 ESCALANTE ST  
GRAND JUNCTION 81503  
LENT FAMILY TRUST

2945-233-04-009  
1755 ESCALANTE ST  
GRAND JUNCTION 81503  
LENT FAMILY TRUST

2945-233-04-005  
1741 ESCALANTE ST  
GRAND JUNCTION 81503  
MELTON RICHARD

2945-233-04-006  
1731 ESCALANTE ST  
GRAND JUNCTION 81503  
MCCABE WESLEY DANE  
DILLON SAMANTHA B

2945-233-33-002  
1725 ESCALANTE ST  
GRAND JUNCTION 81503  
WYATT CARL

2945-233-33-001  
653 SANTA CLARA AVE  
GRAND JUNCTION 81503  
BACA REYNA V  
GRAY STEPHAN T

2945-233-05-008  
724 UNAWEEP AVE  
GRAND JUNCTION 81503  
MAYES PERCY L JR

2945-233-05-007  
1756 ESCALANTE ST  
GRAND JUNCTION 81503  
CORDOVA MICHAEL A

2945-233-05-006  
1748 ESCALANTE ST  
GRAND JUNCTION 81503  
RUPPE WYATT

2945-233-05-005  
1740 ESCALANTE ST  
GRAND JUNCTION 81503  
MELTON RICHARD K

2945-233-05-004  
1732 ESCALANTE ST  
GRAND JUNCTION 81503  
JONES DANIEL DUANE

2945-233-05-003  
1726 ESCALANTE ST  
GRAND JUNCTION 81503  
SMITH SIDNEY D  
SMITH RUBY B

2945-233-05-001  
713 SANTA CLARA AVE  
GRAND JUNCTION 81503  
JOE L GARCIA TESTAMENTARY TRUST  
GARCIA-TILLMAN JOLYNN CO-TRUSTEE,  
STAGE PATRICIA CABRINI CO-TRUSTEE,  
GARCIA TED ALLEN CO-TRUSTEE

NOTE;  
EDGE MILL TAPER AT ALL CONCRETE  
AND ASPHALT DRIVEWAYS AS NECESSARY.

REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	----	
REVISION Δ XXX		202X	DRAWN BY DJM	DATE 05/2021
REVISION Δ XXX		202X	DESIGNED BY DJM	DATE 05/2021
REVISION Δ XXX		202X	CHECKED BY EM	DATE 2021
REVISION Δ XXX		202X	APPROVED BY KH	DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 60'	0 15 30 60
VERTICAL: 1" =	



PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST. OVERLAY

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REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	---	05/2021
REVISION Δ XXX		202X	---	05/2021
REVISION Δ XXX		202X	---	2021
REVISION Δ XXX		202X	---	2021

SCALE: PLAN & PROFILE
HORIZONTAL: 1" = 60'
VERTICAL: 1" = 10'

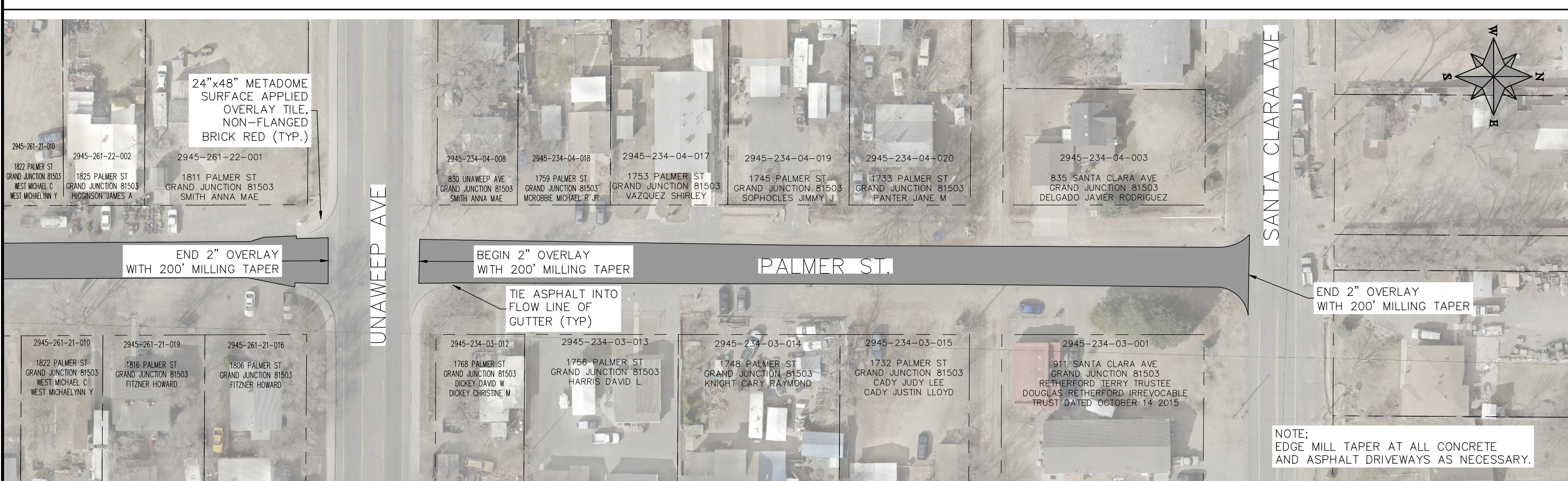
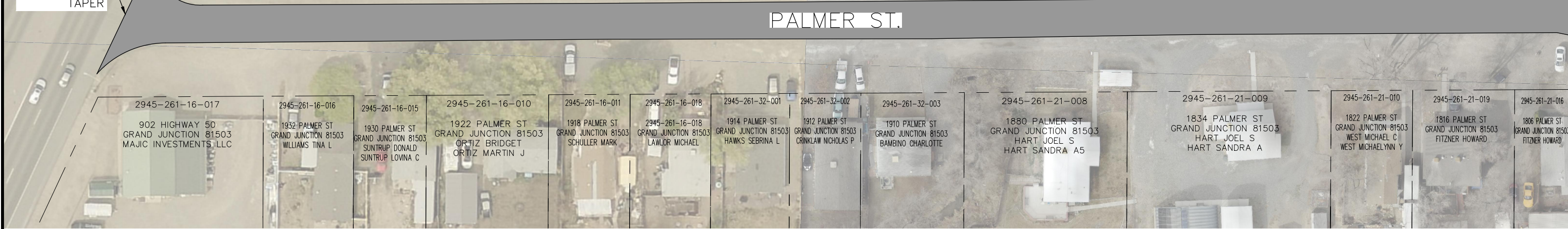


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
ASPEN ST. OVERLAY**

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REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	----	05/2021
REVISION Δ XXX		202X		05/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

SCALE	DATE
SCALE: PLAN & PROFILE	
HORIZONTAL: 1" = 60'	
VERTICAL: 1" = 30'	



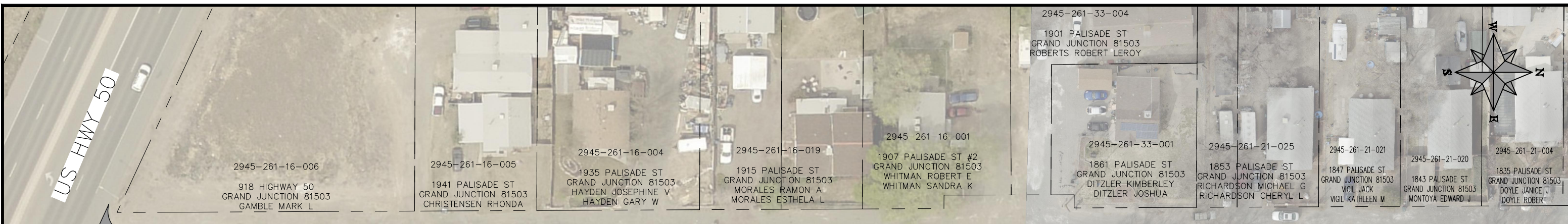
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
PALMER ST. OVERLAY**

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NOTE;  
EDGE MILL TAPER AT ALL CONCRETE  
AND ASPHALT DRIVEWAYS AS NECESSARY.

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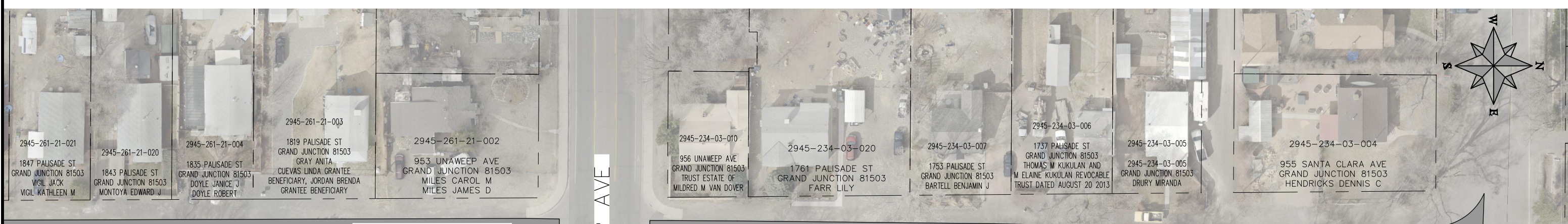
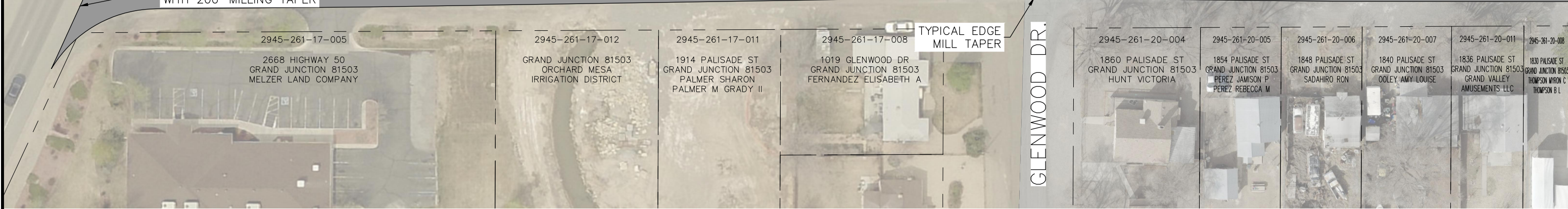


BEGIN 2" OVERLAY WITH 200' MILLING TAPER

PALISADE ST.

TYPICAL EDGE MILL TAPER

GLENWOOD DR.



PALISADE ST.

END 2" OVERLAY WITH 200' MILLING TAPER

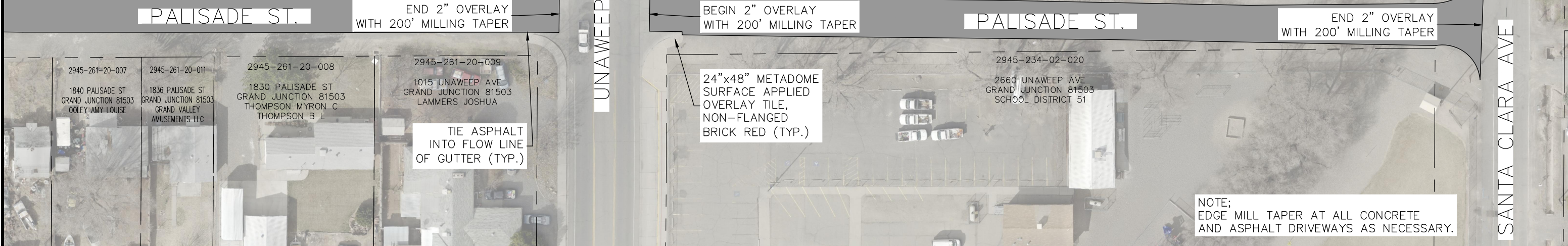
BEGIN 2" OVERLAY WITH 200' MILLING TAPER

PALISADE ST.

END 2" OVERLAY WITH 200' MILLING TAPER

UNAWEEP AVE

SANTA CLARA AVE



TIE ASPHALT INTO FLOW LINE OF GUTTER (TYP.)

24"x48" METADOME SURFACE APPLIED OVERLAY TILE, NON-FLANGED BRICK RED (TYP.)

NOTE; EDGE MILL TAPER AT ALL CONCRETE AND ASPHALT DRIVEWAYS AS NECESSARY.

REVISION	DESCRIPTION	DATE	PROJECT NO. ----
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

SCALE: PLAN & PROFILE
HORIZONTAL: 1" = 60'
VERTICAL: 1" = 10'



PUBLIC WORKS ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A PALISADE ST. OVERLAY



2945-234-02-020  
2660 UNAWEEP AVE  
GRAND JUNCTION 81503  
SCHOOL DISTRICT 51

2945-234-02-019  
1742 ROUBIDEAU ST  
GRAND JUNCTION 81503  
RUSSELL TROY D  
RUSSELL SANDRA L

2945-234-02-004  
1716 ROUBIDEAU ST  
GRAND JUNCTION 81503  
CUNNINGHAM PAT L  
CUNNINGHAM M KIM

2945-234-00-016  
2676 UNAWEEP AVE  
GRAND JUNCTION 81503  
LIEN BARBARA  
LIEN JOSH

2945-234-00-034  
1736 ROUBIDEAU ST  
GRAND JUNCTION 81503  
1736 ROUBIDEAU ST

2945-234-00-015  
1105 SANTA CLARA AVE  
GRAND JUNCTION 81503  
SANTA CLARA 2020 LLC

24"x48" METADOME  
SURFACE APPLIED  
OVERLAY TILE,  
NON-FLANGED  
BRICK RED (TYP.)

BEGIN 2" OVERLAY  
WITH 200' MILLING TAPER

TIE ASPHALT INTO  
FLOW LINE OF GUTTER

END 2" OVERLAY  
WITH 200' MILLING TAPER

SANTA CLARA AVE.

LINDEN AVE.

UNAWEEP AVE.

NOTE;  
EDGE MILL TAPER AT ALL CONCRETE  
AND ASPHALT DRIVEWAYS AS NECESSARY.

REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	----	05/2021
REVISION Δ XXX		202X		05/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 60'	0 15 30 60
VERTICAL: 1" =	



**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT – PHASE A  
ROUBIDEAU ST. OVERLAY**

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