



Purchasing Division

## ADDENDUM NO. 2

**DATE:** July 1, 2021  
**FROM:** City of Grand Junction Purchasing Division  
**TO:** All Interested Parties  
**RE:** 2021 Phase A Sewer Replacements – Unawep Avenue IFB-4922-21-DH

Bidders responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded, and supplemented as to this date as hereinafter described.

Please make note of the following:

1. Q. In regards to bid item 39 (Concrete Intersection Corner), I am not able to find any call outs in the constructions notes, or illustrations on the plans as to where these items are located, nor the limits to replace. Could the City provide a tabulations by station or page, or some sort of direction of where to find these items within the bid plan set?

A. Please see the updated Construction Plans - the 17 SY of Concrete Intersection Corner is located on the Northeast corner of Unawep Ave. and Palisade St., called out on Sheet 29.

2. Q. In regards to bid item 41 (7' Mono Curb Gutter & Sidewalk), I am able to find 193 LF on sheets 6, 7, & 9, but am still ~30 LF shy of the quantity on the bid tab. I see on sheet 15 this item is called out in the construction notes, but am not able to find it illustrated on the plan. Could the City provide a tabulation by station or page, or some sort of directions of where to find the remaining ~30 LF of 7' curb gutter & sidewalk?

A. Please see the updated Construction Plans - the remaining amount of Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide) is now called out on Sheet 29.

3. Q. There are no line items for the adjustment of water valves and manholes in the bid tabulation please add with an addendum.

A. Please see the updated Bid Schedule - line items for the adjustment of water valves and manholes have been added.

4. Q. The line between manhole C1-261-064 and C1-261-065 is shown to have reverse grade.

A. Please see the updated Construction Plans – we have adjusted the design to abandon this line.

5. Q. Sheet 21 and 21 the station on the plan view does not match the stationing in the profile.

A. Please see the updated Construction Plans – stationing has been corrected on Sheet 21 and Sheet 22.

6. Q. There are several manholes where the notes call out for a precast base yet there are only 2 in the bid tabulation. which is correct?

A. Please see the updated Construction Plans – Construction Note #320 has been edited so that connection to the existing sewer does not include precast bases. There are no precast manholes in the updated Construction Plans or in the updated Bid Schedule.

7. Q. Did the City acquire a temporary construction easement for the installation of manhole C1-262-068? If so where is the access point to install the manhole?

A. The City has a permanent 20' wide construction easement along the existing sewer lines to the South and East of manhole C1-262-068. The access point to install the manhole is from the East of manhole C1-262-068.

8. Q. There are conflicting notes for the size of the pipe on sheet 24. One calls it a 10" the other calls it an 8" which is correct.

A. Please see the updated Construction Plans.

9. Q. Please provide flow data for all sewer lines.

A. The City doesn't have flow records or has recently had flow measuring equipment installed in these exact sewer lines. The City does have a flow monitor downstream of the project boundary, at Manhole C1-261-097. Flow Data from Manhole C1-261-097 will be included in a future addendum if the data can be extracted before Final Addenda must be posted (7/9/2021). Determination of sewer flows will ultimately be the Contractor's responsibility or their bypass pumping subcontractor for determining what the flows are and what size pumps will be needed.

The City's Project Engineer did a best guess estimate on the flows in the manholes identified in Attachment A – Estimated Dry Weather Peak Flows based on measured flow depth in the manholes at the estimated peak loading time for the area (between 7 and 8 AM) during Dry Weather. Estimated Dry Weather flows are listed in Attachment A. The sewer in the project area has significant inflow & infiltration during rain events and can see Wet Weather peak flows as high as 200% of Dry Weather peak flows during a large rain event. Any bypass pumping plans will need to be reviewed by the Project Engineer prior to bypass pumping.

10. Q. The Qty's for concrete removal do not equal the qty's for new concrete to be installed for this project.

A. Please see the updated Construction Plans and the Updated Bid schedule – this error has been rectified.

11. Q. Is dewatering incidental or will there be a specific line item added to the Price Bid Schedule?

A. Please see the updated Bid Schedule – dewatering has been added as a lump sum line item to the Bid Schedule.

12. Q. Is it possible to use other options than pipe bursting?

A. Bid Alternate #1 has been provided to minimize the amount of pipe bursting utilized in this project. The pipe bursting that is included in the Bid Alternate #1 is considered essential to pipe burst in order to utilize trenchless construction and avoid conflicts with utilities, open ditch irrigation lines and to minimize disturbance to private properties.

13. Q. Can you address how you want the tree handled at the 1748 Escalante Drive address?

A. The Tree at 1748 Escalante Drive is not located on top of the Sewer Service for 1748. It is located across the alley from the Sewer Service for 1751 Escalante Drive, and is not expected to interfere with construction.

However, there is a tree at 1756 Escalante drive that is located directly atop the sewer service connection. This tree will need to be removed and replaced with three (3), one-inch caliper trees of the same kind, please see the updated Construction plans and updated Bid Schedule.

14. Q. Can the City provide flow data?

A. Please see the response to Question 9, Addendum 2.

15. Q. I wanted to verify that SpectraShield is included in the approved liners for this project. SpectraShield has been on the approved list for many years and we are currently contracted with the City to line the manholes on the Riverfront Dos Rios Phase 2 project. I did look through the City specifications and couldn't find SpectraShield called out. All I could find is Tnemic and Sherwin Williams for existing manholes although we have coated hundreds of manholes in Grand Junction over the years with SpectraShield.

A. SpectraShield is an approved Manhole Interior Corrosion Protection coating for this project.

16. Contractors shall utilize the attached updated Construction Plans, updated Price Bid Schedule, and the added Bid Alternate Price Schedule for this Addendum 2 when submitting their bid response.

The original solicitation for the project referenced above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff, Jr., Senior Buyer  
City of Grand Junction, Colorado

## Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaved areas) (See Std Detail SS-07)	74	EA	\$ _____	\$ _____
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ _____	\$ _____
3	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)	1,009	LF	\$ _____	\$ _____
4	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)	41.6	LF	\$ _____	\$ _____
5	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)	39	LF	\$ _____	\$ _____
6	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)	375	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)	335	LF	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
8	108.2	24" 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)	420	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)	3,092	LF	\$ _____	\$ _____
10	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	9	EA	\$ _____	\$ _____
11	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	63	EA	\$ _____	\$ _____
12	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ _____	\$ _____
13	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) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ _____	\$ _____
14	108.5	Manhole Barrel Section (D>5') (48" I.D.)	85.6	Vert. Ft.	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
15	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) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ _____	\$ _____
16	108.5	Manhole Barrel Section (D>5") (60" I.D.)	42.5	Vert. Ft.	\$ _____	\$ _____
17	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ _____	\$ _____
18	202	Removal of Existing Pipe (Size & type as shown on plans)	2,018.2	LF	\$ _____	\$ _____
19	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ _____	\$ _____
20	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)	13	EA	\$ _____	\$ _____
21	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ _____	\$ _____
22	202	Removal of Existing Surface Material	488.0	SY	\$ _____	\$ _____
23	202	Removal of Asphalt Mat (Full Depth)	1,319.1	SY	\$ _____	\$ _____
24	202	Asphalt Removal (Planing)(Thickness Varies)	27,451	SY	\$ _____	\$ _____
25	202	Removal of Sod	4,885	SF	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - Unaweeep Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
26	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)	225	SY	\$ _____	\$ _____
27	202	Removal of Tree (size shown on plans)	2	EA	\$ _____	\$ _____
28	203	Potholing (as called out on plans)	2	EA	\$ _____	\$ _____
29	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ _____	\$ _____
30	208	Erosion Control Log	198	LF	\$ _____	\$ _____
31	210	Reset Fence (Height and Material Shown on Plan)	225.0	LF	\$ _____	\$ _____
32	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
33	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____	\$ _____
34	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA.	\$ _____	\$ _____
35	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA.	\$ _____	\$ _____
36	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	4,885	SF	\$ _____	\$ _____
37	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ _____	\$ _____
38	304	Aggregate Base Course (Class 6) (12" thick)	1,092.5	SY	\$ _____	\$ _____

## Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
39	304	Aggregate Base Course (Class 6) (6" thick)	666.0	SY	\$ _____	\$ _____
40	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ _____	\$ _____
41	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on UnawEEP Ave, as deemed necessary)	524.1	SY	\$ _____	\$ _____
42	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR.=75) (Two 2" Lifts)	1,250.1	SY	\$ _____	\$ _____
43	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-03)	1,797	SY	\$ _____	\$ _____
44	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920	Tons	\$ _____	\$ _____
45	608	Concrete Curb and Gutter (2' Wide)	2	SY	\$ _____	\$ _____
46	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ _____	\$ _____
47	608.06	Concrete Intersection Corner	17	SY	\$ _____	\$ _____
48	608.06	Concrete Drainage Pan (6' Wide)	12.5	SY	\$ _____	\$ _____
49	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	190.0	SY	\$ _____	\$ _____
50	627-30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ _____	\$ _____
51	630	Flagging	3,400	HR	\$ _____	\$ _____
52	Overlay Tile	24" X 48" MetaDome Surface Applied Overlay Tile, Non-Flanged Brick Red	34	Each	\$ _____	\$ _____
53	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____



## Bid Schedule: 2021 Sewer Replacements - Phase A - Unawweep Ave - Addendum #2

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
54	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____
55	620	Portable Sanitary Facility	1	Lump Sum	\$ _____	\$ _____
56	625	Construction Surveying (Includes As- Built Drawings)	1	Lump Sum	\$ _____	\$ _____
57	626	Mobilization	1	Lump Sum	\$ _____	\$ _____
58	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 100,000.00

**Bid Amount:** \$ \_\_\_\_\_

**Bid Amount:** \_\_\_\_\_ **dollars**

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaved areas) (See Std Detail SS-07)	74	EA	\$ _____	\$ _____
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ _____	\$ _____
3	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)	1,009	LF	\$ _____	\$ _____
4	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)	41.6	LF	\$ _____	\$ _____
5A	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)	2,462	LF	\$ _____	\$ _____
6	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)	375	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)	335	LF	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
8	108.2	24" 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)	420	LF	\$ _____	\$ _____
9A	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)	669	LF	\$ _____	\$ _____
10A	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	61	EA	\$ _____	\$ _____
11A	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	11	EA	\$ _____	\$ _____
12	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ _____	\$ _____
13	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) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ _____	\$ _____
14	108.5	Manhole Barrel Section (D>5') (48" I.D.)	85.6	Vert. Ft.	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
15	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) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ _____	\$ _____
16	108.5	Manhole Barrel Section (D>5') (60" I.D.)	42.5	Vert. Ft.	\$ _____	\$ _____
17	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ _____	\$ _____
18A	202	Removal of Existing Pipe (Size & type as shown on plans)	4,480.2	LF	\$ _____	\$ _____
19	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ _____	\$ _____
20	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)	13	EA	\$ _____	\$ _____
21	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ _____	\$ _____
22A	202	Removal of Existing Surface Material	1,104.9	SY	\$ _____	\$ _____
23A	202	Removal of Asphalt Mat (Full Depth)	1,533.5	SY	\$ _____	\$ _____
24A	202	Asphalt Removal (Planing)(Thickness Varies)	27,749	SY	\$ _____	\$ _____
25A	202	Removal of Sod	8,011	SF	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
26A	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)	243	SY	\$ _____	\$ _____
27	202	Removal of Tree (size shown on plans)	1	EA	\$ _____	\$ _____
28	203	Potholing (as called out on plans)	2	EA	\$ _____	\$ _____
29	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ _____	\$ _____
30	208	Erosion Control Log	198	LF	\$ _____	\$ _____
31A	210	Reset Fence (Height and Material Shown on Plan)	206.7	LF	\$ _____	\$ _____
32	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
33	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____	\$ _____
34	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA.	\$ _____	\$ _____
35	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA.	\$ _____	\$ _____
36A	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	8,011	SF	\$ _____	\$ _____
37	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ _____	\$ _____
38A	304	Aggregate Base Course (Class 6) (12" thick)	1,298.1	SY	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
39A	304	Aggregate Base Course (Class 6) (6" thick)	1,282.3	SY	\$ _____	\$ _____
40	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ _____	\$ _____
41A	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on UnawEEP Ave, as deemed necessary)	559.6	SY	\$ _____	\$ _____
42A	401	Hot Bituminous Pavement (4" Thick) (Grading SX, Binder Grade PG 64-22)(GYR.=75) (Two 2" Lifts)	1,464.5	SY	\$ _____	\$ _____
43A	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-03)	2,095	SY	\$ _____	\$ _____
44	401	Hot Mix Asphalt (2" thick) (Grading SX, Binder Grade 64-22)	3,920	Tons	\$ _____	\$ _____
45	608	Concrete Curb and Gutter (2' Wide)	2	SY	\$ _____	\$ _____
46	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ _____	\$ _____
47	608.06	Concrete Intersection Corner	17	SY	\$ _____	\$ _____
48	608.06	Concrete Drainage Pan (6' Wide)	12.5	SY	\$ _____	\$ _____
49A	608/30 4	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	203.9	SY	\$ _____	\$ _____
50	627- 30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ _____	\$ _____
51	630	Flagging	3,400	HR	\$ _____	\$ _____
52	Overlay	24" X 48" MetaDome Surface Applied Tile Overlay Tile, Non-Flanged Brick Red	34	Each	\$ _____	\$ _____
53A	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____

**Bid Schedule: 2021 Sewer Replacements - Phase A - Unawep Ave - Addendum #2 - Bid Alternate #1**

**CONTRACTOR:** \_\_\_\_\_

Item No.	Ref.	Description	Quantity	Units	Unit Price	Total Price
54A	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____
55	620	Portable Sanitary Facility	1	Lump Sum	\$ _____	\$ _____
56	625	Construction Surveying (Includes As- Built Drawings)	1	Lump Sum	\$ _____	\$ _____
57	626	Mobilization	1	Lump Sum	\$ _____	\$ _____
58A	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
INC		Incentive HMA 64-22	---	---	---	\$ 15,000.00
MCR		Minor Contract Revisions	---	---	---	\$ 100,000.00

**Bid Alternate #1 Amount:** \$ \_\_\_\_\_

**Bid Alternate #1 Amount:** \_\_\_\_\_ **dollars**

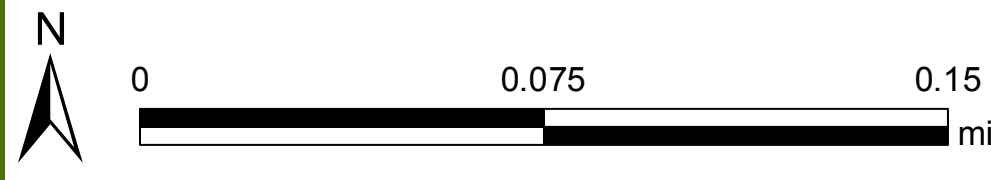
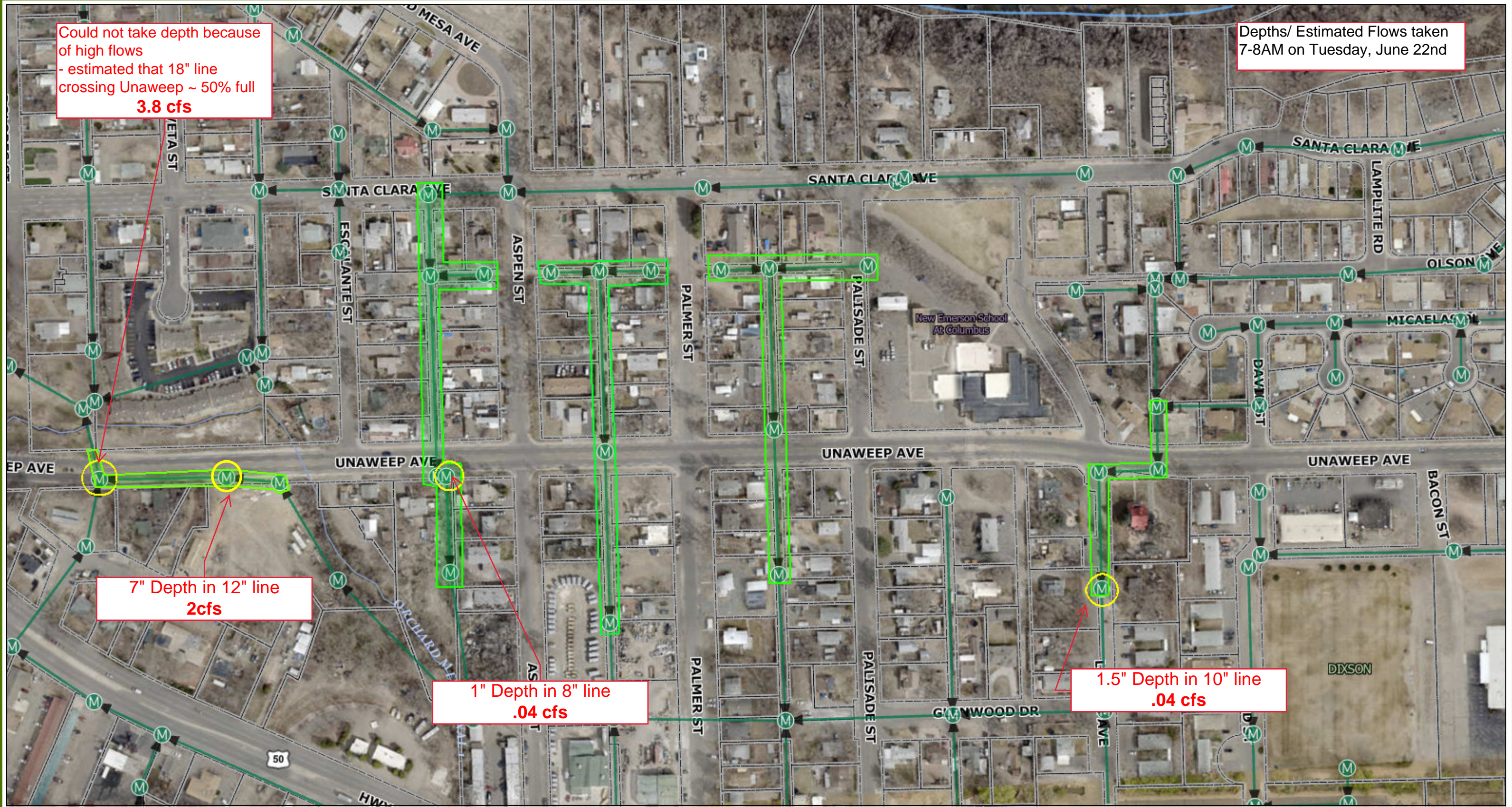
**NOTE:** Do not include pricing for this Bid Alternate #1 when calculating your Base Bid total price. This Bid Alternate request is for the option of the City to select an alternate method to Items No. 5, 9-11, 18, 22-26, 31, 36, 38-39, 41-43, 49, 53-54, 58 of the Base Bid Price Schedule.

Lowest bidder shall be determined by comparing all Base Bid price proposals received against that of all Bid Alternate #1 price proposals received, and shall be awarded to the overall lowest total bid price.

Bid Alternate #1 Items No. 5A, 9A-11A, 18A, 22A-26A, 31A, 36A, 38A-39A, 41A-43A, 49A, 53A-54A, 58A refer to the Bid Alternate #1 Construction Plans (Sheets 36-49), and if selected would replace Items No. 5, 9-11, 18, 22-26, 31, 36, 38-39, 41-43, 49, 53-54, 58 of the Base Bid Price Schedule.

Bid Alternate #1 includes a minimal amount of pipe bursting and is provided to accommodate Contractors who are confident and experienced in open-trench construction with limited space and overhead/underground utilities to protect in place. Bidders are not required to provide a price for these Bid Alternate #1 line items. However, if so, the Bidder would only be considered for their submitted Base Bid price proposal.

# Attachment A - Estimated Dry Weather Peak Flows pg 1



Date: 6/17/2021

1 inch = 188 feet



# Attachment A - Estimated Dry Weather Peak Flows pg 2

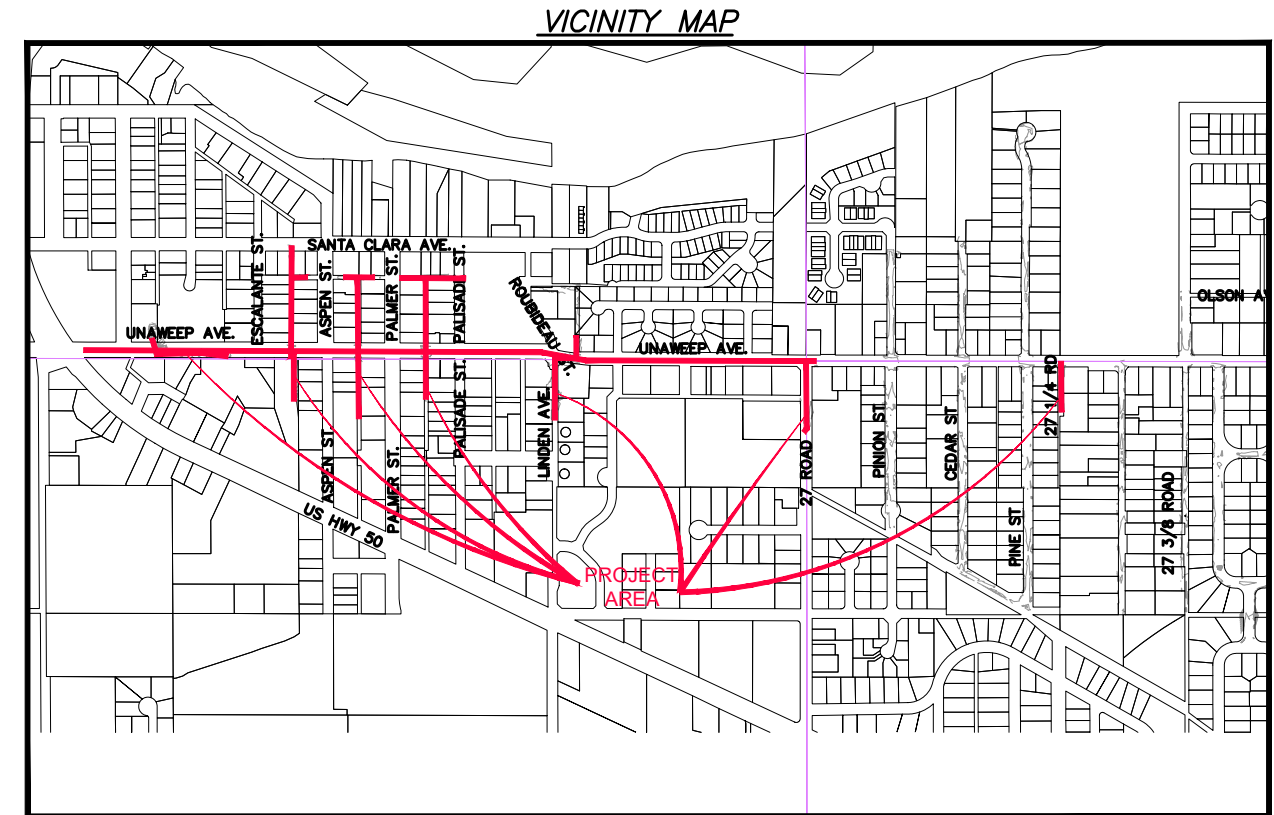


Date: 6/17/2021

1 inch = 188 feet

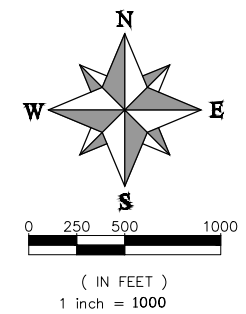
# 2021 SEWER LINE REPLACEMENT - PHASE A

1 — Cover Sheet	26 — 27 Road P&P	Sta 90+00 — 92+00
2 — Standard Abbreviations, Legend and Symbols	27 — 27 Road P&P	Sta 92+00 — 94+00
3 — Summary of Approximate Quantities	28 — 27 1/4 Road P&P	Sta 10+00 — 12+00
4 — Project Control Map	29 — UnawEEP Ave. Overlay	
5 — Duck Pond P&P	30 — UnawEEP Ave. Overlay	
6 — Duck Pond P&P	31 — Escalante St. Overlay	
7 — Duck Pond P&P	32 — Aspen St. Overlay	
8 — Escalante Alley P&P	33 — Palmer St. Overlay	
9 — Escalante Alley P&P	34 — Palisade St. Overlay	
10 — Escalante Alley P&P	35 — Roubideau St. Overlay	
11 — Escalante Alley P&P	36 — Escalante Alley P&P - ALT 1	Sta 22+00 — 24+00
12 — Escalante Alley P&P	37 — Escalante Alley P&P - ALT 1	Sta 24+00 — 26+00
13 — Aspen Alley P&P	38 — Escalante Alley P&P - ALT 1	Sta 26+00 — 28+17
14 — Aspen Alley P&P	39 — Escalante Alley P&P - ALT 1	Sta 30+00 — 31+20
15 — Aspen Alley P&P	40 — Aspen Alley P&P - ALT 1	Sta 42+00 — 44+00
16 — Aspen Alley P&P	41 — Aspen Alley P&P - ALT 1	Sta 44+00 — 46+00
17 — Aspen Alley P&P	42 — Aspen Alley P&P - ALT 1	Sta 46+00 — 47+63
18 — Palmer Alley P&P	43 — Aspen Alley P&P - ALT 1	Sta 50+00 — 52+30
19 — Palmer Alley P&P	44 — Palmer Alley P&P - ALT 1	Sta 60+00 — 62+20
20 — Palmer Alley P&P	45 — Palmer Alley P&P - ALT 1	Sta 62+20 — 64+40
21 — Palmer Alley P&P	46 — Palmer Alley P&P - ALT 1	Sta 64+40 — 66+60
22 — Palmer Alley P&P	47 — Palmer Alley P&P - ALT 1	Sta 70+00 — 72+00
23 — Linden Ave P&P	48 — Palmer Alley P&P - ALT 1	Sta 72+00 — 73+24
24 — Linden Ave P&P	49 — 27 1/4 Road P&P - ALT 1	Sta 10+00 — 12+00
25 — 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.

REVISION	DESCRIPTION	DATE
REVISION Δ XXX	UPDATES TO PLAN AND PROFILES	06/2021
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X



*Public Works  
Engineering Division*



Know what's below.  
Call before you dig.

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



N:\landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION\TITLE SHEET.dwg, 7/1/2021 9:17:20 AM, AutoCAD PDF (General Documentation).p3

Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2					Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2					Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2					Bid Schedule: 2021 Sewer Replacements - Phase A - UnawEEP Ave - Addendum #2 - Bid Alternate #1													
CONTRACTOR: _____					CONTRACTOR: _____					CONTRACTOR: _____					CONTRACTOR: _____													
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price	Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price	Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price	Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price	
1	104.2	2-Way Sanitary Sewer Service Cleanout (Includes Cleanout Ring and Cover and Concrete Collar in unpaired areas) (See Std Detail SS-07)	74	EA	\$ _____	\$ _____	16	108.5	Manhole Barrel Section (D>5) (60" I.D.)	42.5	Vert. Ft.	\$ _____	\$ _____	43	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-03)	1,797	SY	\$ _____	\$ _____	18A	202	Removal of Existing Pipe (Size & type as shown on plans)	4,480.2	LF	\$ _____	\$ _____	
2	104.4	Encase Sanitary Sewer Pipe in Concrete per City Specification GU-04 (20' long) (if necessary)	2	EA	\$ _____	\$ _____	17	108.5	Manhole Interior Corrosion Protection (100 mils Dry Film Thickness, min.) (includes manhole surface preparation and filling in bugholes and imperfections prior to coating)	273	Vert. Ft.	\$ _____	\$ _____	44	401	Hot Mix Asphalt (2" thick) (Grading SX Binder Grade 64-22)	3,920	Tons	\$ _____	\$ _____	22A	202	Removal of Existing Surface Material	1,104.9	SY	\$ _____	\$ _____	
3	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)	1,009	LF	\$ _____	\$ _____	18	202	Removal of Existing Pipe (Size & type as shown on plans)	2,018.2	LF	\$ _____	\$ _____	45	608	Concrete Curb and Gutter (2' Wide)	2	SY	\$ _____	\$ _____	23A	202	Removal of Asphalt Mat (Full Depth)	1,533.5	SY	\$ _____	\$ _____	
4	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)	41.6	LF	\$ _____	\$ _____	19	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	12	EA	\$ _____	\$ _____	46	608.06	Concrete Driveway Section (6" Thick) (Residential)	2.6	SY	\$ _____	\$ _____	24A	202	Asphalt Removal (Planing)(Thickness Varies)	27,749	SY	\$ _____	\$ _____	
5	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)	39	LF	\$ _____	\$ _____	20	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)	13	EA	\$ _____	\$ _____	47	608.06	Concrete Intersection Corner	17	SY	\$ _____	\$ _____	25A	202	Removal of Sod	8,011	SF	\$ _____	\$ _____	
6	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)	375	LF	\$ _____	\$ _____	21	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	175	EA	\$ _____	\$ _____	48	608.06	Concrete Drainage Pan (6" Wide)	12.5	SY	\$ _____	\$ _____	26A	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)	243	SY	\$ _____	\$ _____	
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)	335	LF	\$ _____	\$ _____	22	202	Removal of Existing Surface Material	488.0	SY	\$ _____	\$ _____	49	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	190.0	SY	\$ _____	\$ _____	31A	210	Reset Fence (Height and Material Shown on Plan)	206.7	LF	\$ _____	\$ _____	
8	108.2	24" 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)	420	LF	\$ _____	\$ _____	23	202	Removal of Asphalt Mat (Full Depth)	1,319.1	SY	\$ _____	\$ _____	50	627-30410	Preformed Plastic Pavement Marking (Symbol)	447	SF	\$ _____	\$ _____	36A	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	8,011	SF	\$ _____	\$ _____	
9	108.2	8" Gravity Sewer Pipe (Certa-Flo PVC) (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)	3,092	LF	\$ _____	\$ _____	24	202	Asphalt Removal (Planing)(Thickness Varies)	27,451	SY	\$ _____	\$ _____	51	630	Flagging	3,400	HR	\$ _____	\$ _____	38A	304	Aggregate Base Course (Class 6) (12" thick)	1,298.1	SY	\$ _____	\$ _____	
10	108.3	8" x 4" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	9	EA	\$ _____	\$ _____	25	202	Removal of Sod	4,885	SF	\$ _____	\$ _____	52	Overlay	24" X 48" MetaDome Surface Applied Overlay Tile, Non-Flanged Brick Red	34	Each	\$ _____	\$ _____	39A	304	Aggregate Base Course (Class 6) (6" thick)	1,282.3	SY	\$ _____	\$ _____	
11	108.3	8" x 4" Sewer Service Tap, Tapping Saddle (To be used on the Certa-Flo PVC pipe) (Includes saddle, bedding material, clean-out and all fitting required to align and connect the sewer service pipe to the sewer tap) (Contractor must properly support the tapping saddle with crushed pipe bedding material to avoid saddle rotation during backfilling and compaction)	63	EA	\$ _____	\$ _____	26	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)	225	SY	\$ _____	\$ _____	53	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____	41A	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on UnawEEP Ave, as deemed necessary)	559.6	SY	\$ _____	\$ _____	
12	108.3	8" x 6" Sewer Service Tap, Full Body WYE (See St. Detail SS-06)	2	EA	\$ _____	\$ _____	27	202	Removal of Tree (size shown on plans)	2	EA	\$ _____	\$ _____	54	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____	42A	401	Hot Bituminous Pavement (4" Thick) (Grading SX Binder Grade PG 64-22)(GYR=75) (Two 2" Lifts)	1,464.5	SY	\$ _____	\$ _____	
13	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) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	22	EA	\$ _____	\$ _____	28	203	Potholing (as called out on plans)	2	EA	\$ _____	\$ _____	55	620	Portable Sanitary Facility	1	Lump Sum	\$ _____	\$ _____	43A	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-03)	2,095	SY	\$ _____	\$ _____	
14	108.5	Manhole Barrel Section (D>5) (48" I.D.)	85.6	Vert. Ft.	\$ _____	\$ _____	29	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	EA	\$ _____	\$ _____	56	625	Construction Surveying (Includes As-Built Drawings)	1	Lump Sum	\$ _____	\$ _____	49A	608/304	Monolithic Vertical Curb, Gutter, and Sidewalk (7-ft wide)	203.9	SY	\$ _____	\$ _____	
15	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) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	7	EA	\$ _____	\$ _____	30	208	Erosion Control Log	198	LF	\$ _____	\$ _____	57	626	Mobilization	1	Lump Sum	\$ _____	\$ _____	53A	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____	\$ _____	
							31	210	Reset Fence (Height and Material Shown on Plan)	225.0	LF	\$ _____	\$ _____	58	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____	54A	211	Dewatering (Includes acquiring a CDPHE Dewatering Permit and adhering to the discharge requirements of the State Permit) (if needed)	1	Lump Sum	\$ _____	\$ _____	
							32	210	Reset/Repair Sprinkler System (Complete in Place)	1	Lump Sum	\$ _____	\$ _____	INC		Incentive HMA 64-22	---	---	---	\$	15,000.00	58A	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____	\$ _____
							33	210	Reset Irrigation Pipe (PVC Irrigation Pipe) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____	\$ _____	MCR		Minor Contract Revisions	---	---	---	\$	100,000.00							
							34	210	Adjust Valve Box (Price to include adjustment of Survey Monuments)	41	EA	\$ _____	\$ _____	<b>Bid Amount:</b>														
							35	210	Adjust Manhole Ring and Cover (Sanitary and Storm Sewer)	17	EA	\$ _____	\$ _____	<b>Bid Amount:</b>														
							36	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	4,885	SF	\$ _____	\$ _____	<b>Bid Amount:</b>														
							37	214	Deciduous Tree (1 Inch Caliper) (Match in kind)	3	EA	\$ _____	\$ _____	<b>Bid Amount:</b>														
							38	304	Aggregate Base Course (Class 6) (12" thick)	1,092.5	SY	\$ _____	\$ _____	<b>Bid Amount:</b>														
							39	304	Aggregate Base Course (Class 6) (6" thick)	666.0	SY	\$ _____	\$ _____	<b>Bid Amount:</b>														
							40	304	Aggregate Base Course (Class 6) - Shoulder Edging Gravel	200	Tons	\$ _____	\$ _____	<b>Bid Amount:</b>														
							41	401	Cold Mix Asphalt Patching (Temporary Patching) (3" thick) (to be used on UnawEEP Ave, as deemed necessary)	524.1	SY	\$ _____	\$ _____	<b>Bid Amount:</b>														
							42	401	Hot Bituminous Pavement (4" Thick) (Grading SX Binder Grade PG 64-22)(GYR=75) (Two 2" Lifts)	1,250.1	SY	\$ _____	\$ _____	<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														
														<b>Bid Amount:</b>														

N:\Landproj\2021 Sewer Replacements - Phase A - Unawweep Ave\60CAD\00DESIGN\REVISION 1\TITLE SHEET.dwg, 7/1/2021 7:03:18 AM, AutoCAD PDF (General Documentation).p3



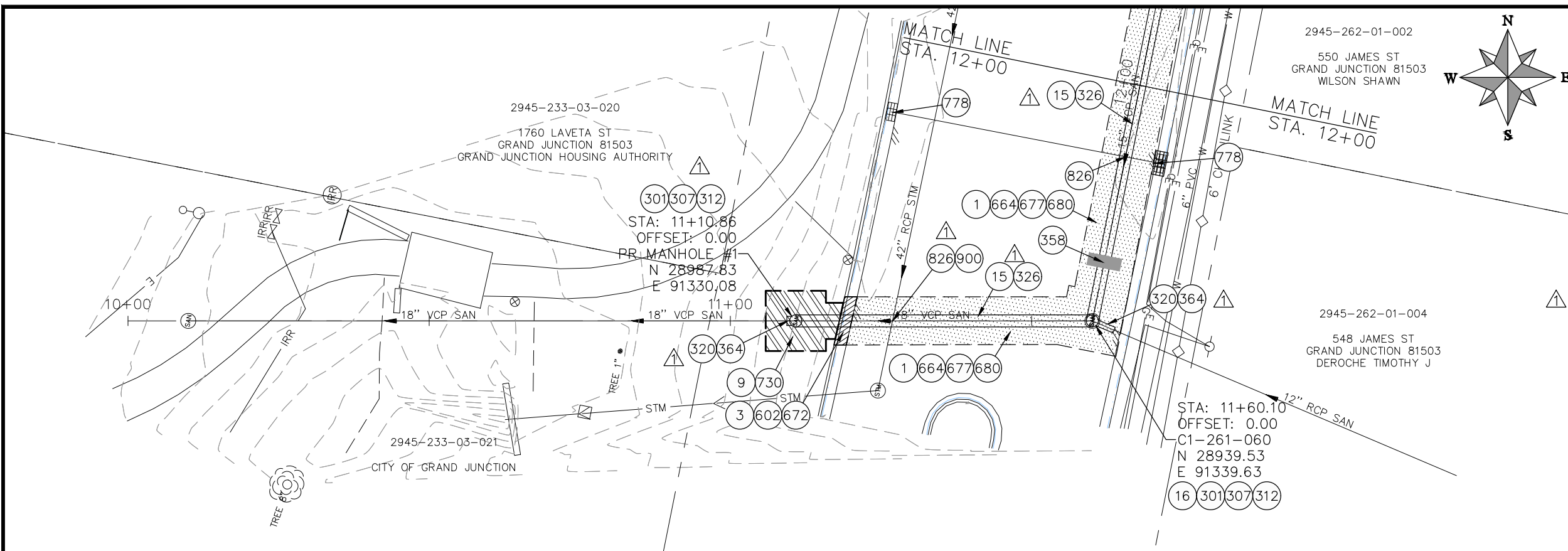
REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ			DRAWN BY DJM DATE 05/2021
REVISION Δ			DESIGNED BY DJM DATE 05/2021
REVISION Δ			CHECKED BY ECM DATE 05/2021
REVISION Δ			APPROVED BY KH DATE 05/2021

SCALES: PLAN & PROFILE

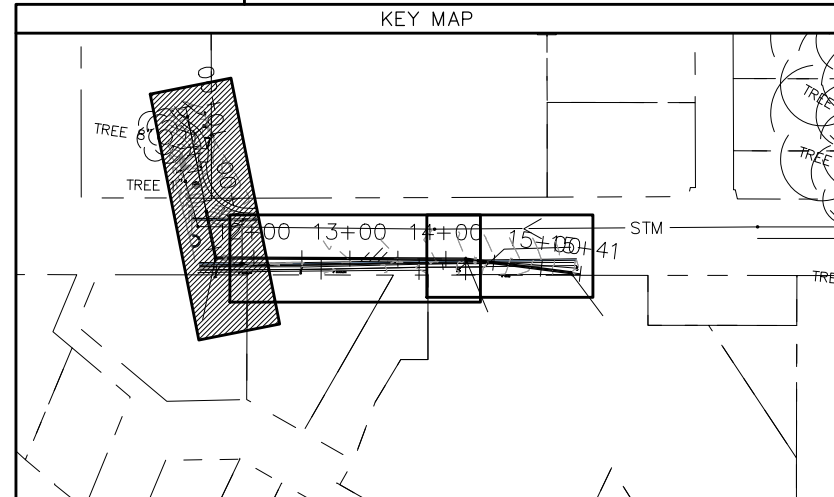
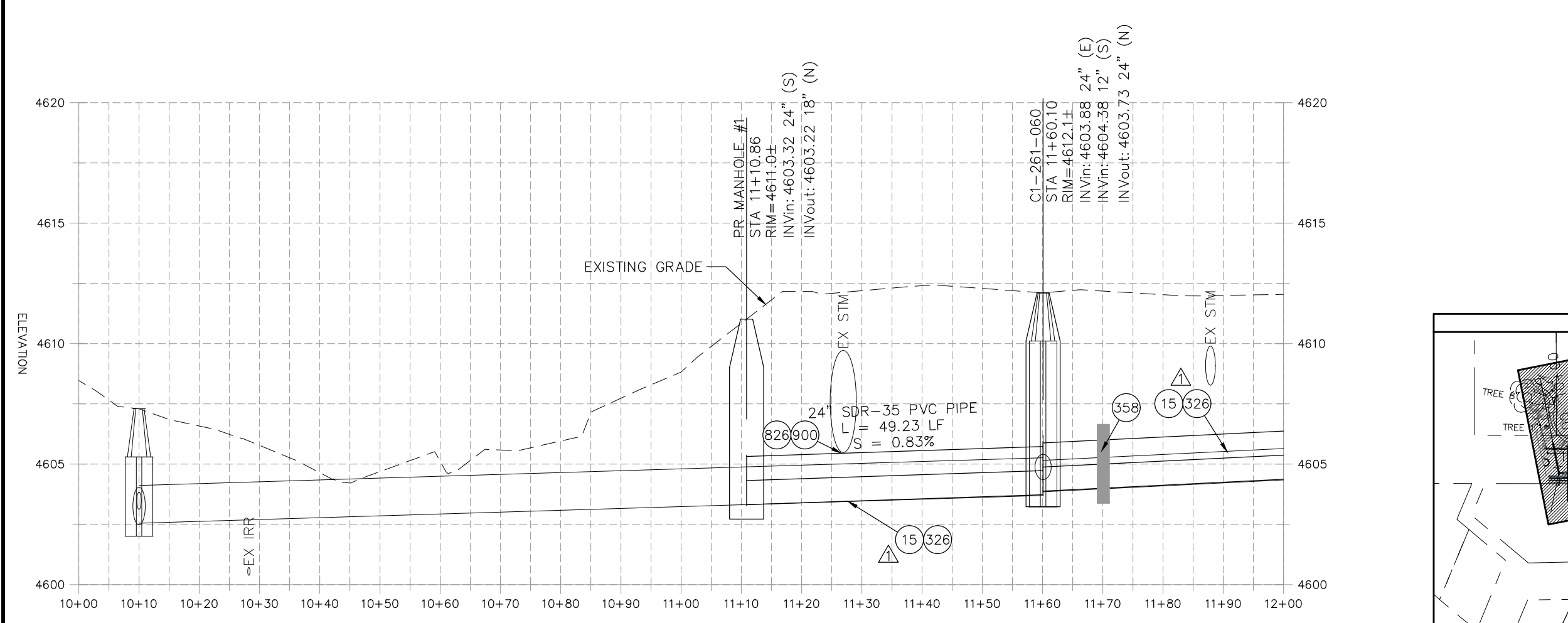
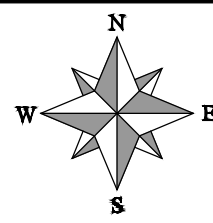


PUBLIC WORKS  
ENGINEERING DIVISION

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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - 326 102.9/108.2 - 24" 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.
  - 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.
  - 900 CONTRACTOR AND CITY TO VERIFY INVERT ELEVATION OF EXISTING STORM SEWER. CONTRACTOR SHALL ENCASE SANITARY SEWER PIPE (PER CITY SPECIFICATION GU-04). POT HOLING REQUIRED.
- 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 UPDATES TO PLAN AND PROFILES		06/2021	----	05/2021
REVISION Δ XXX		202X	DJM	5/2021
REVISION Δ XXX		202X	DJM	2021
REVISION Δ XXX		202X	EM	2021
REVISION Δ XXX		202X	KH	2021

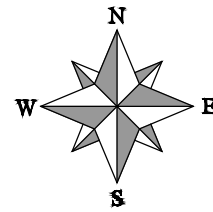
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

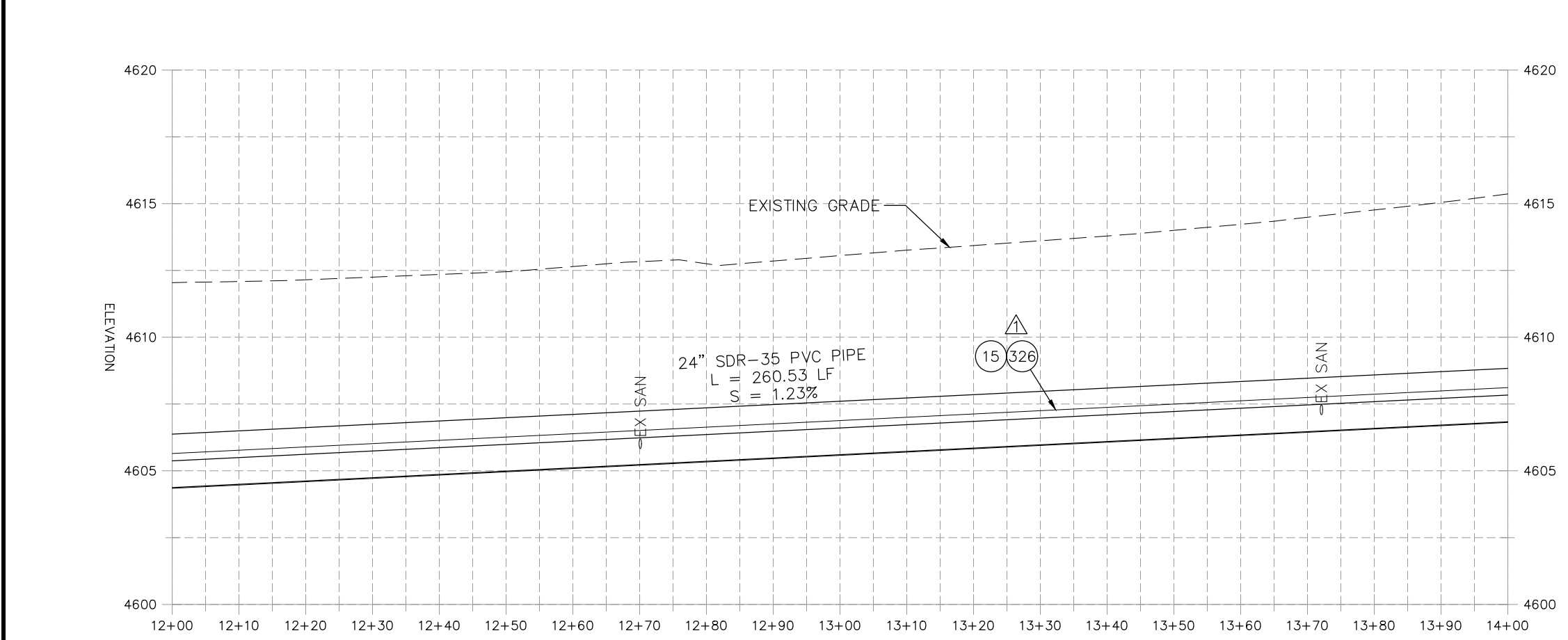
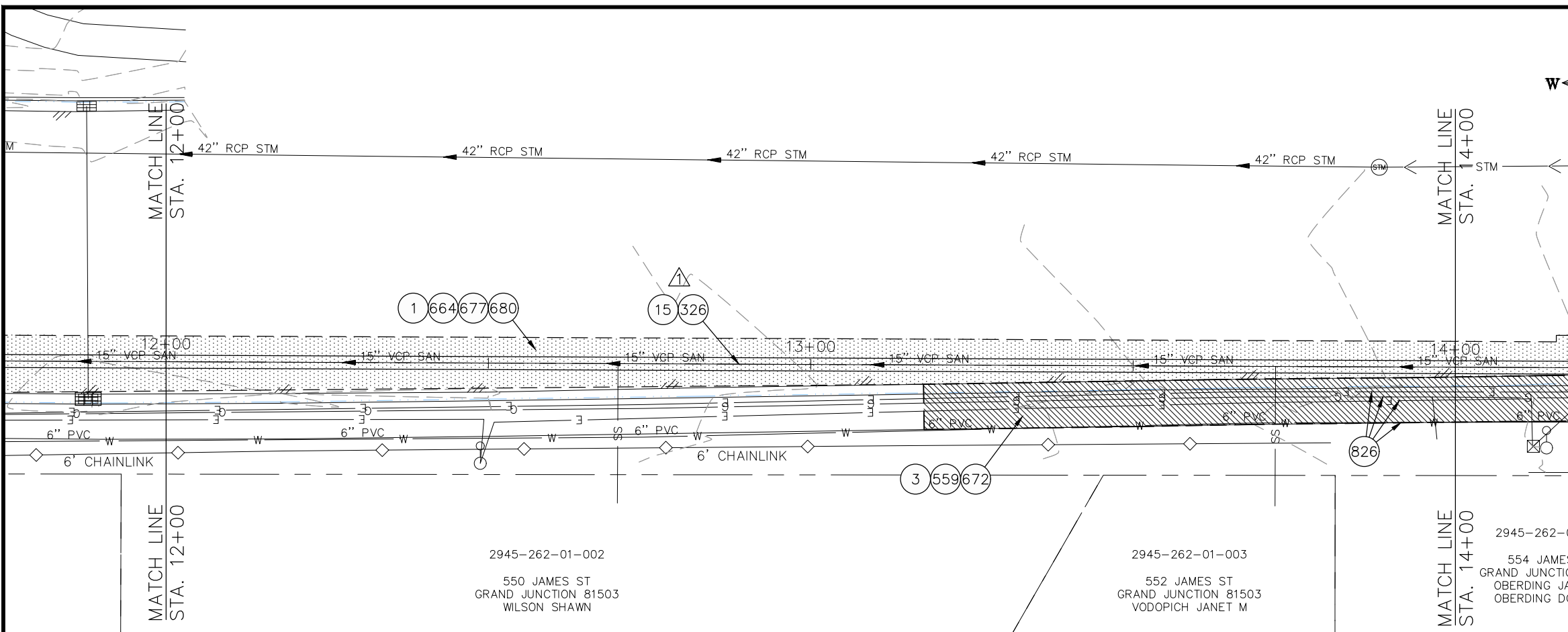
**2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 10+00 TO STA 12+00**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawsep Ave\60CAD\00DESIGN\REVISION 1\1\2021 7:03:50 AM - AutoCAD PDF (General Documentation).pc3

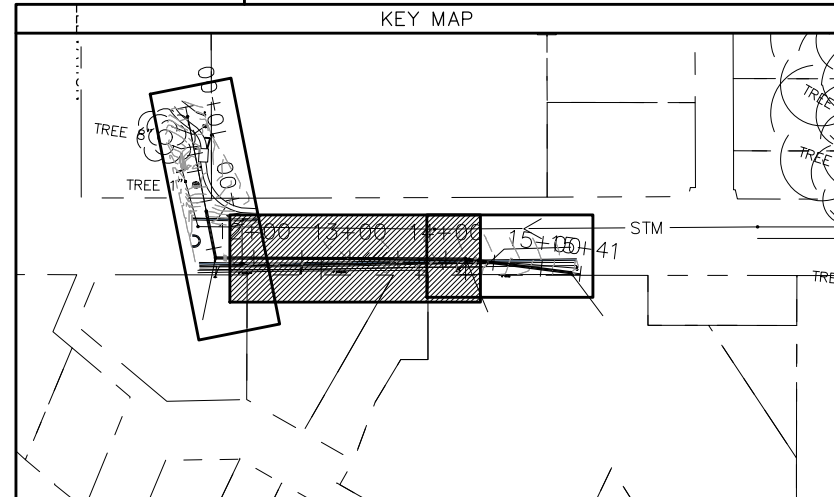


CONSTRUCTION NOTES

- 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)
- ③26 102.9/108.2 - 24" 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.



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	UPDATES TO PLAN AND PROFILES	06/2021	----	05/2021
REVISION		202X	DRAWN BY DJM	05/2021
REVISION		202X	DESIGNED BY DJM	05/2021
REVISION		202X	CHECKED BY ECM	05/2021
REVISION		202X	APPROVED BY KH	05/2021

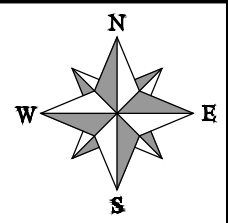
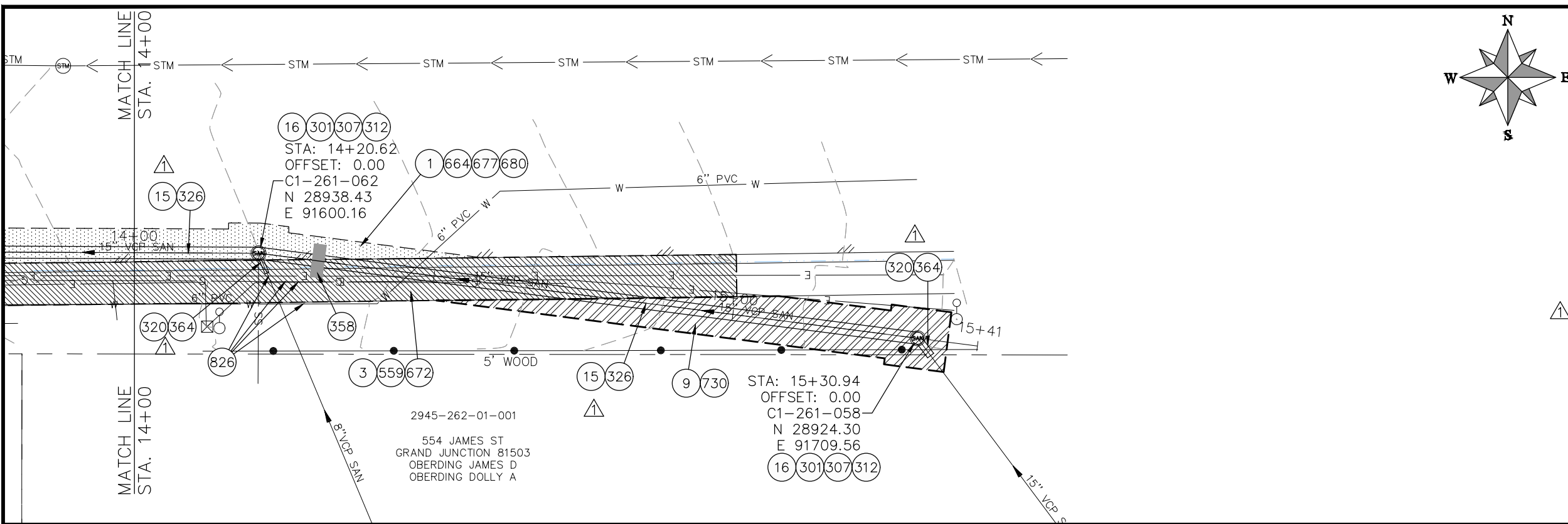
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	
VERTICAL: 1" = 5'	



PUBLIC WORKS  
ENGINEERING DIVISION

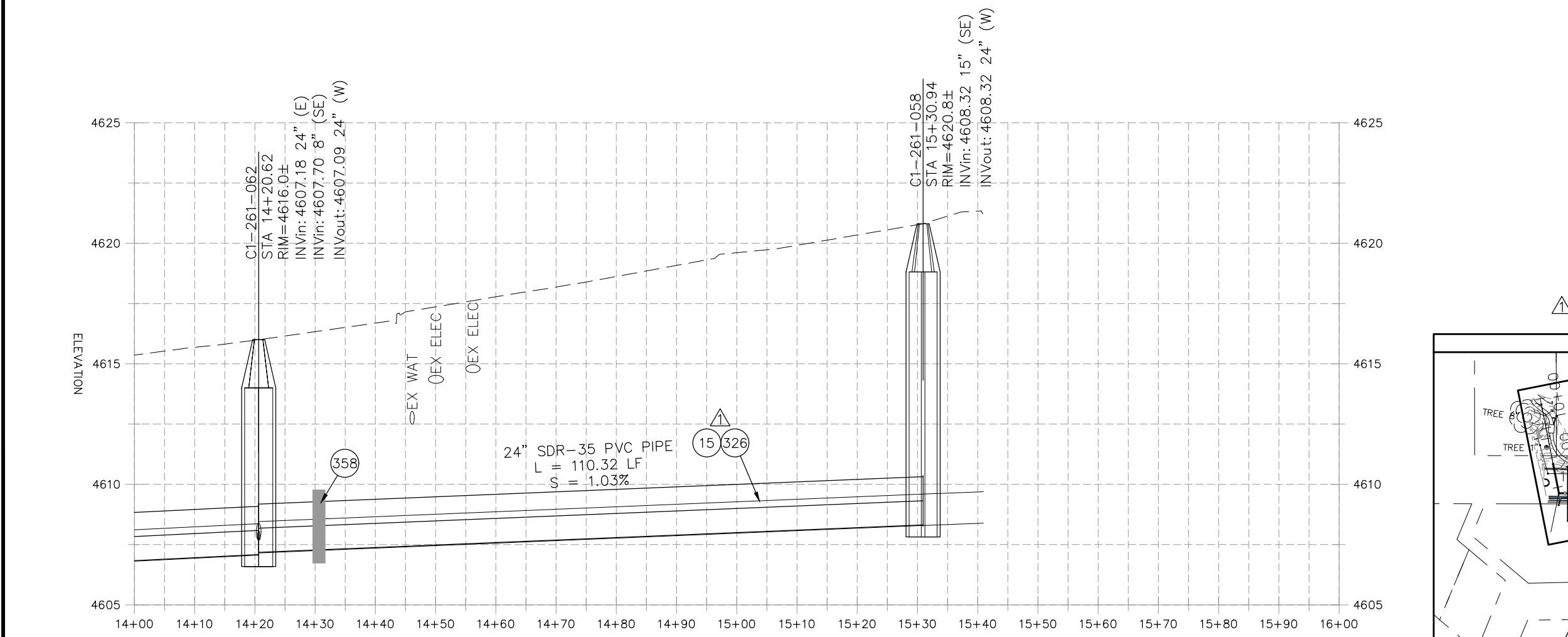
2021 SEWER LINE REPLACEMENT - PHASE A  
DUCK POND AREA PLAN AND PROFILE  
STA 12+00 TO STA 14+00

N:\landproj\2021 Sewer Replacements - Phase A - Unawsep Ave\60CAD\00DESIGN\REVISION 1\1\2021 7:04:55 AM - AutoCAD PDF (General Documentation).pc3

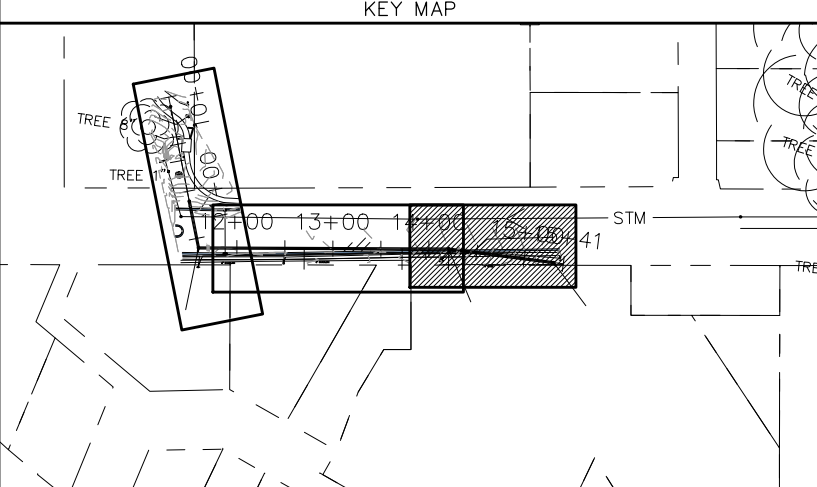


**CONSTRUCTION NOTES**

- 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
- ⑳ 102.11/108.5 - 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).
- ㉑ 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (60" I.D.)
- ㉒ 102.11/108.5 - 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) (100 MIL MINIMUM THICKNESS)
- ㉓ 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
- ㉔ 102.9/108.2 - 24" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH CLASS 3 IMPORTED TRENCH BACKFILL MATERIAL.
- ㉕ 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- ㉖ CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- ㉗ 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7" WIDE)
- ㉘ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- ㉙ 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- ㉚ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- ㉛ 401.08 - 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)
- ㉜ 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- ㉝ 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
①	UPDATES TO PLAN AND PROFILES	06/2021	----	05/2021
②	XXX	202X	DESIGNED BY DJM	05/2021
③	XXX	202X	CHECKED BY ECM	05/2021
④	XXX	202X	APPROVED BY KH	05/2021

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



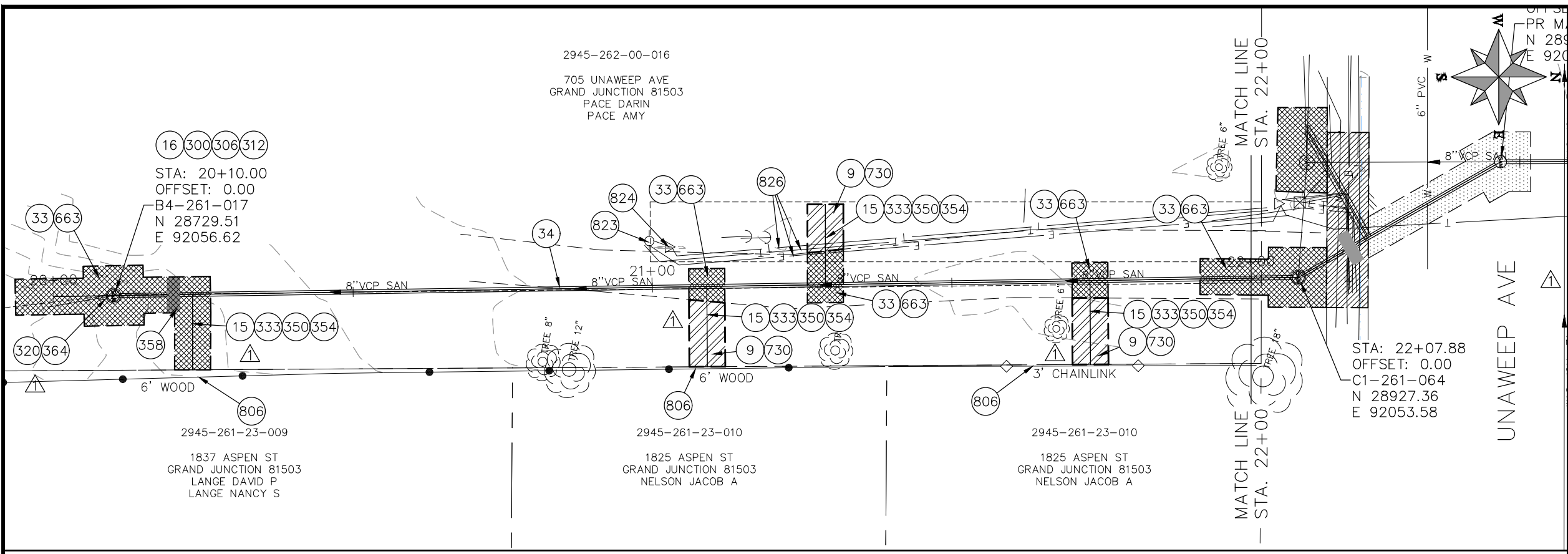
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawsep Ave\60CAD\00DESIGN\REVISION 1\1\2021 7:06:01 AM - AutoCAD PDF (General Documentation).pc3

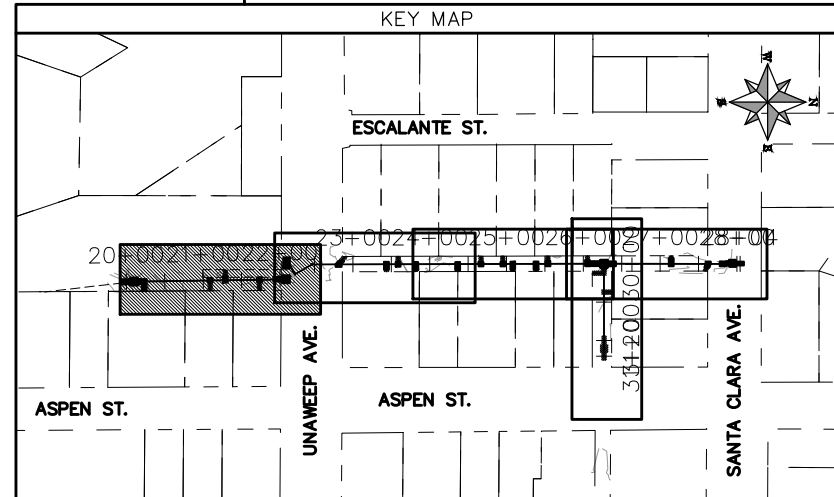
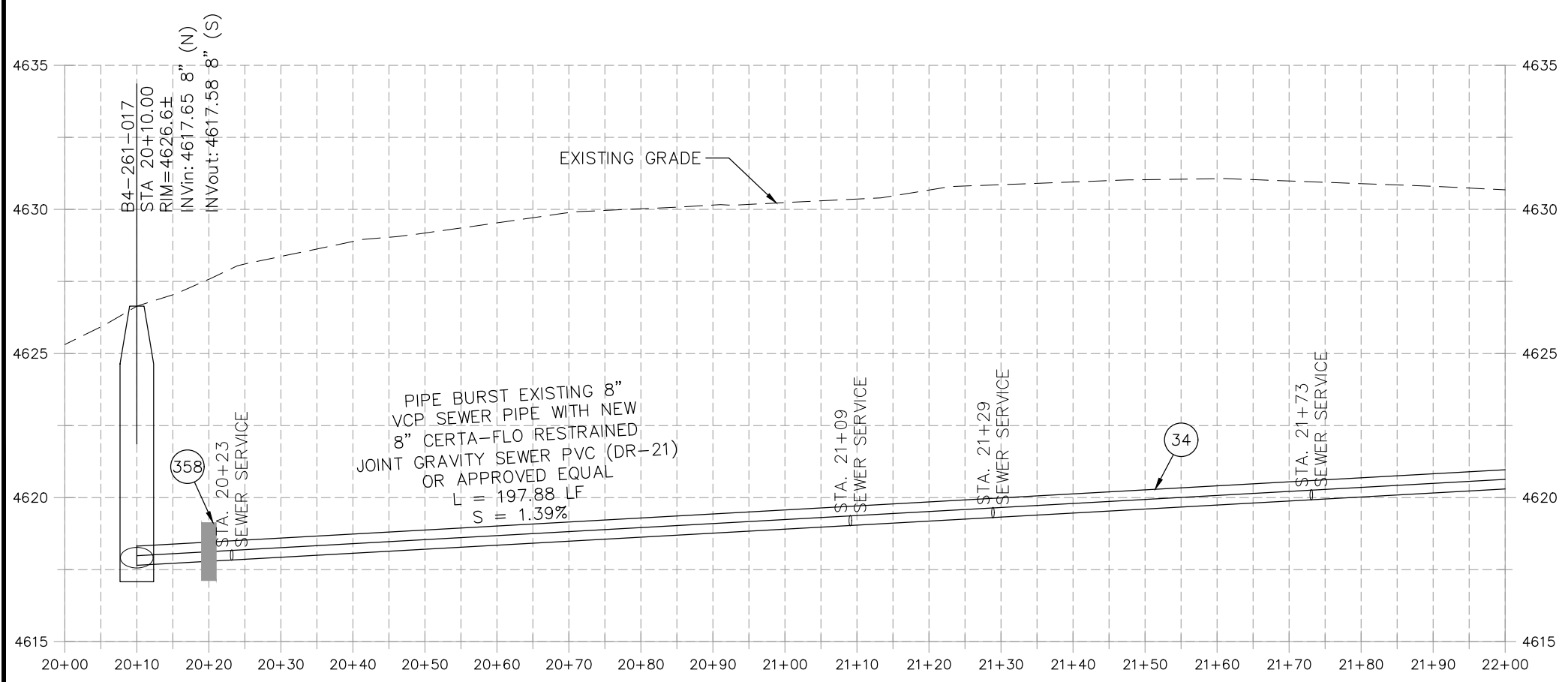


2945-262-00-016  
 705 UNAWEEP AVE  
 GRAND JUNCTION 81503  
 PACE DARIN  
 PACE AMY



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 (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) (100 MIL MINIMUM THICKNESS)
- (320) 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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
- (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- (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)
- (806) PROTECT FENCE
- (823) PROTECT UTILITY POLE
- (824) PROTECT UTILITY PEDESTAL
- (826) PROTECT EXISTING UTILITY LINE IN PLACE



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION A	UPDATES TO PLAN AND PROFILES	06/2021	----	04/2021
REVISION B	XXX	202X	DESIGNED BY DJM	DATE 4/2021
REVISION C	XXX	202X	CHECKED BY EM	DATE 2021
REVISION D	XXX	202X	APPROVED BY KH	DATE 2021

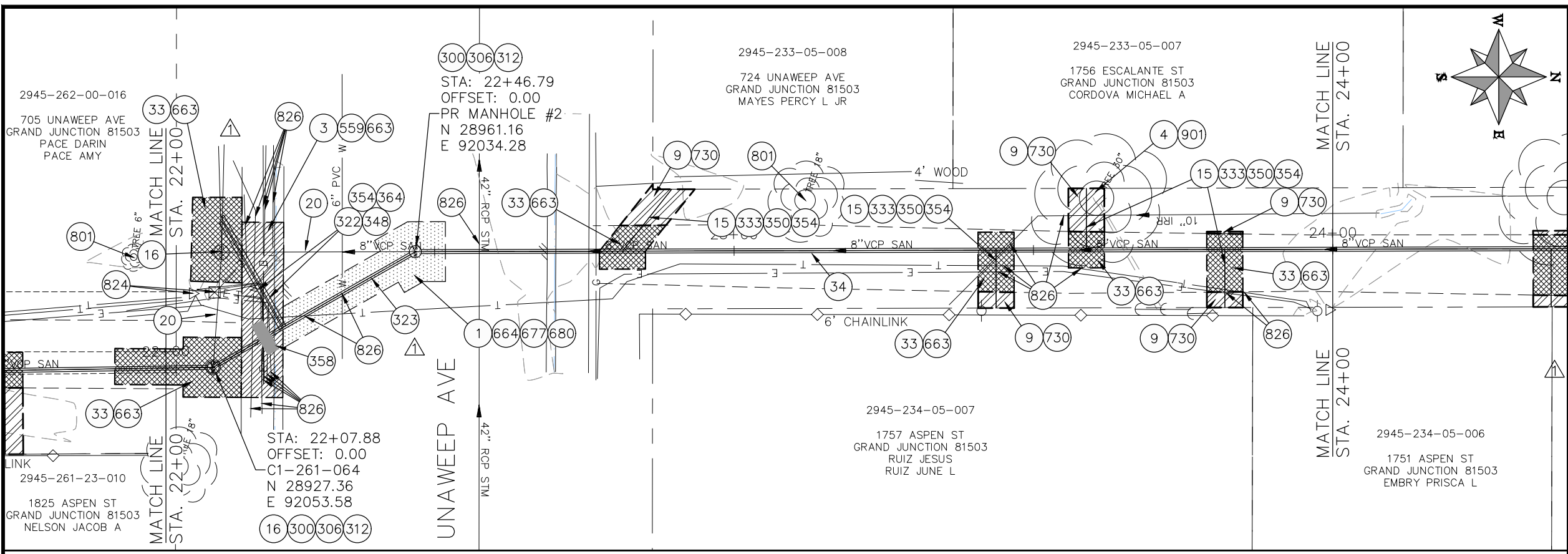
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
 ENGINEERING DIVISION**

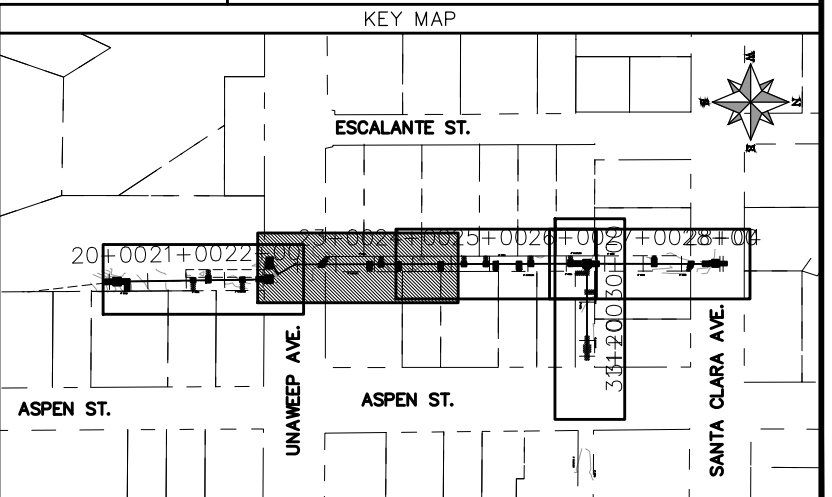
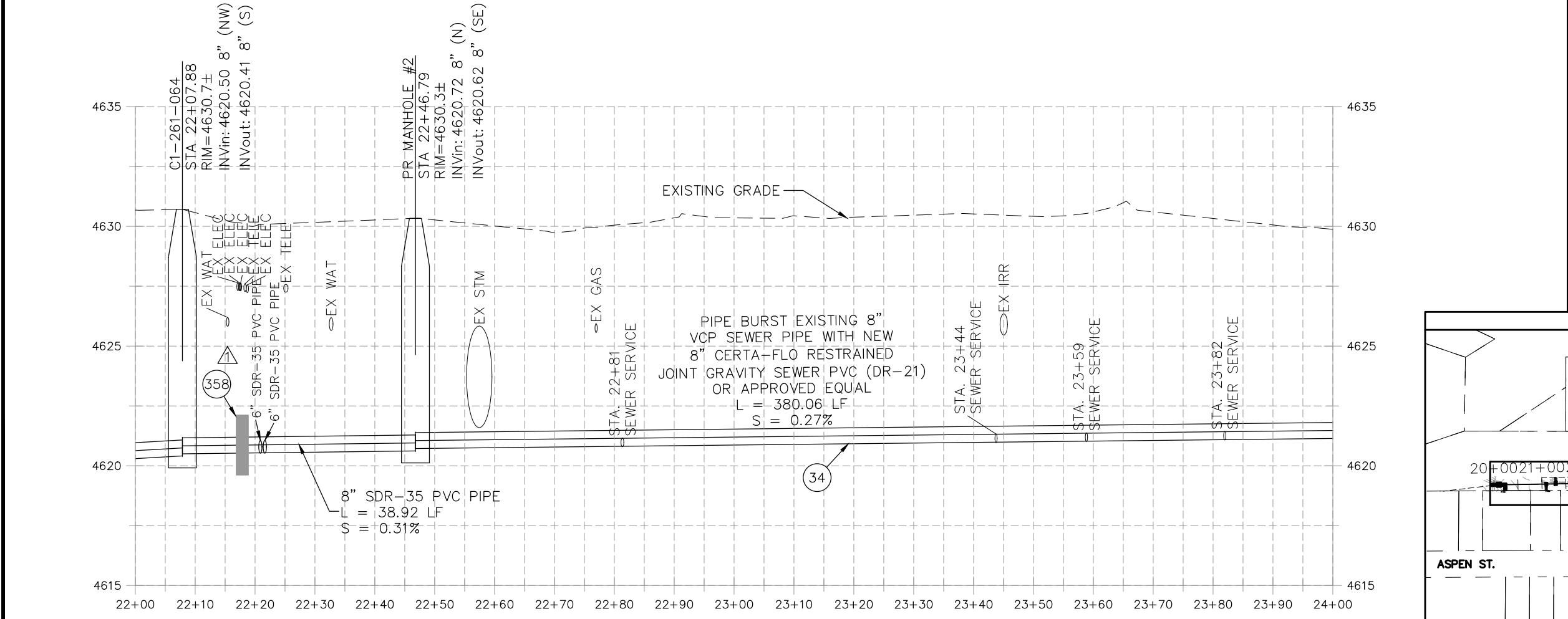
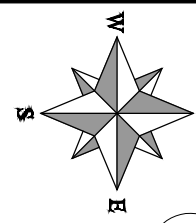
**2021 SEWER LINE REPLACEMENT - PHASE A  
 ESCALANTE ST & ASPEN ST ALLEY PLAN AND PROFILE  
 STA 20+00 TO STA 22+00**

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Escalante Alley.dwg, 7/1/2021 7:07:16 AM, AuroCAD PDF (General Documentation).pc3



**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.
- 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
- 9 202 - REMOVAL OF SOD.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 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) (100 MIL MINIMUM THICKNESS)
- 322 102.9/108.2 - 6" 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.
- 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.
- 348 102.9/108.3 - 8" x 6" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- 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
- 824 PROTECT UTILITY PEDESTAL
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 901 REPLACE TREE



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	----	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

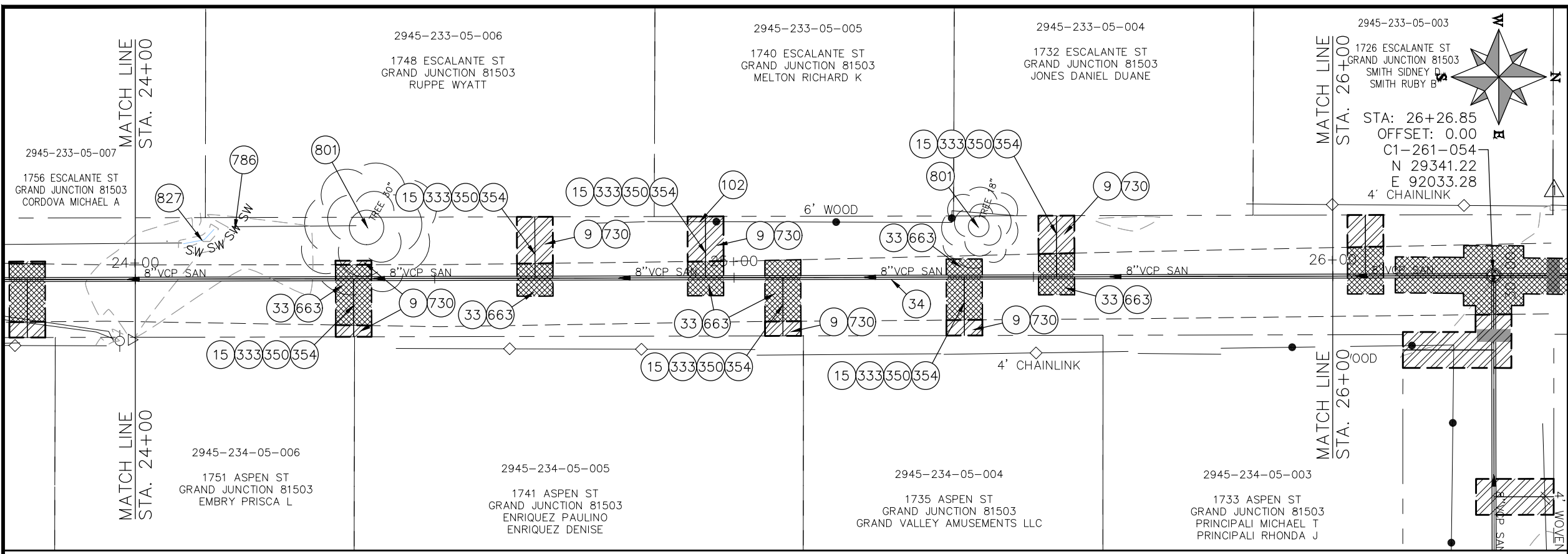
SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 20'
VERTICAL:	1" = 5'



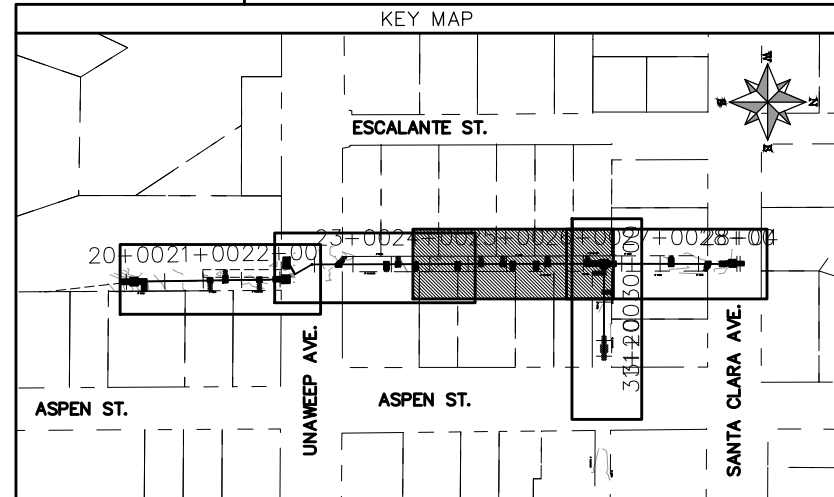
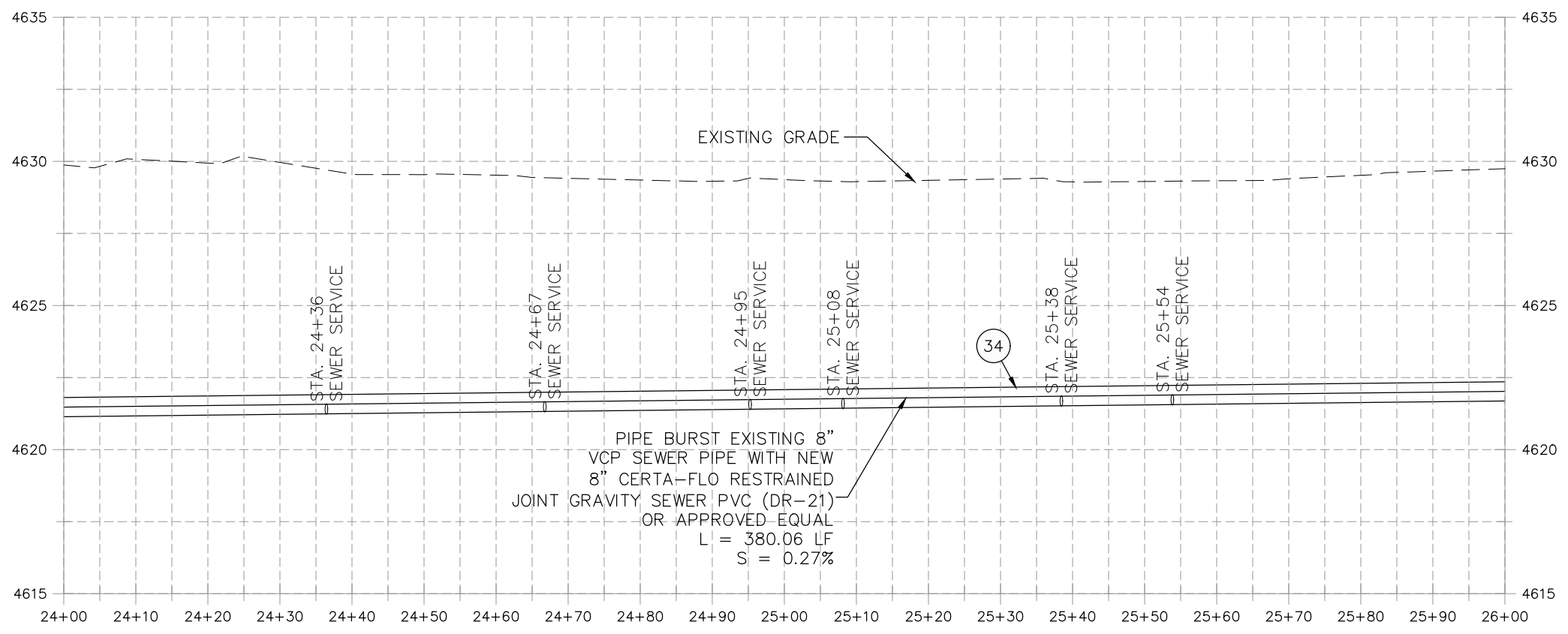
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Escalante Alley.dwg, 7/1/2021 7:07:55 AM, AutocAD PDF (General Documentation).pc3



- 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.
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 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
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	----	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

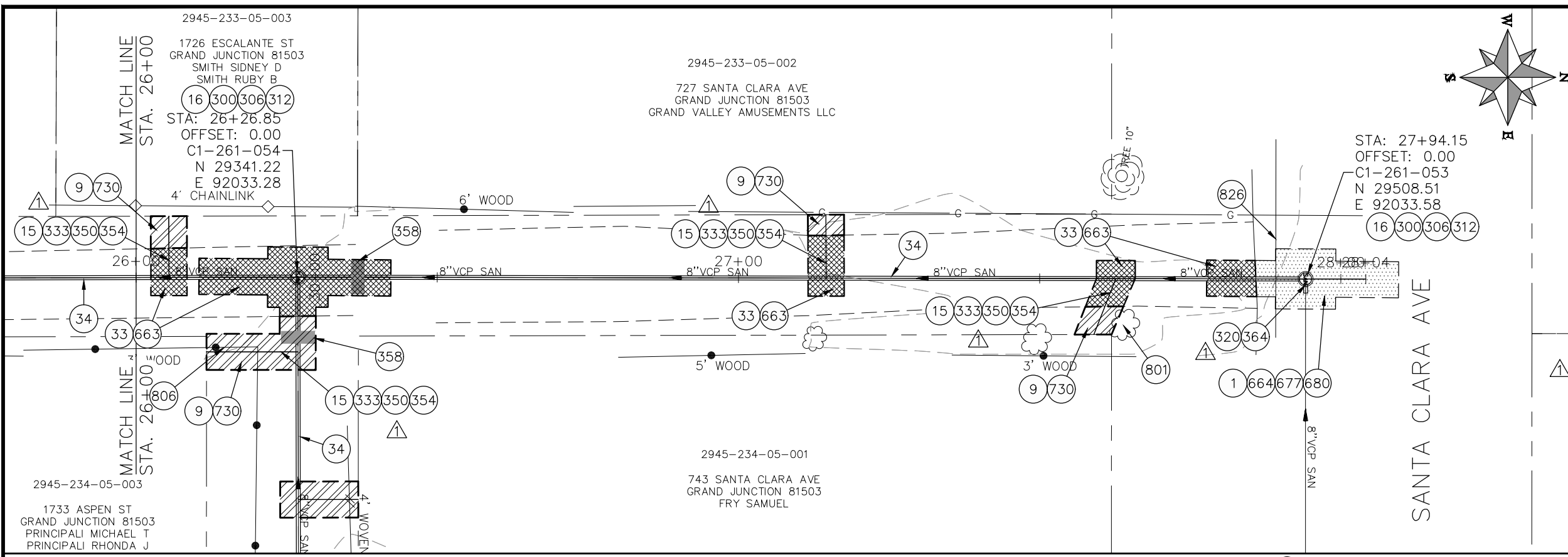
VERTICAL: 1" = 5'  
0 1.25 2.5 5



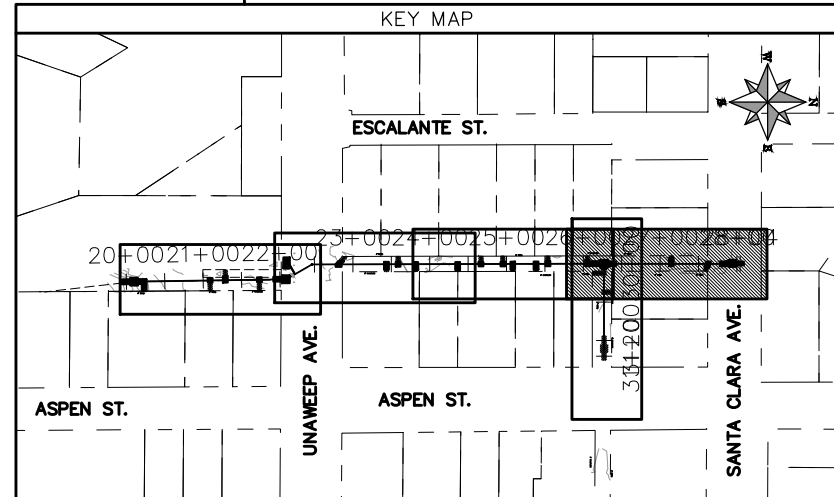
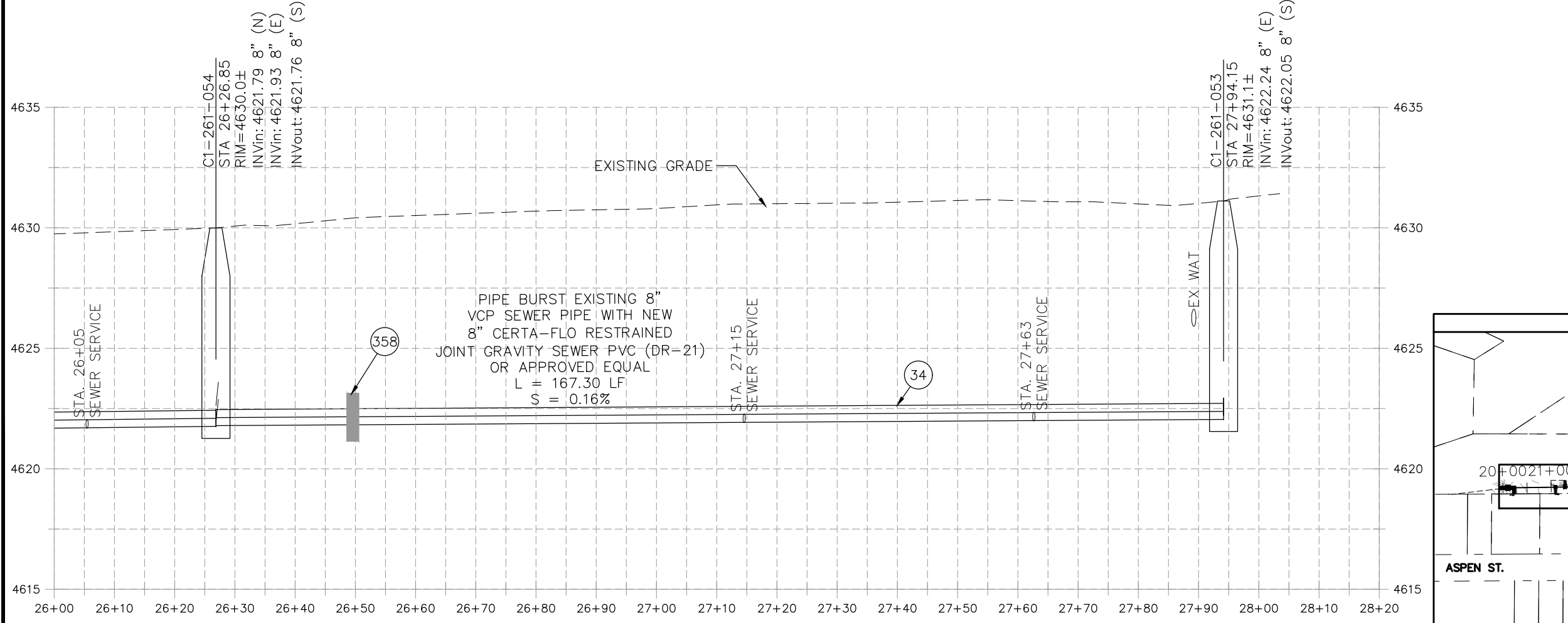
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60\CAD\00DESIGN\REVISION 1\Escalante Alley.dwg, 7/1/2021 7:08:50 AM, AutoCAD PDF (General Documentation).pc3



- 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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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	UPDATES TO PLAN AND PROFILES	06/2021	----	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'

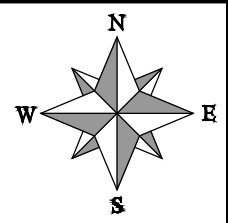
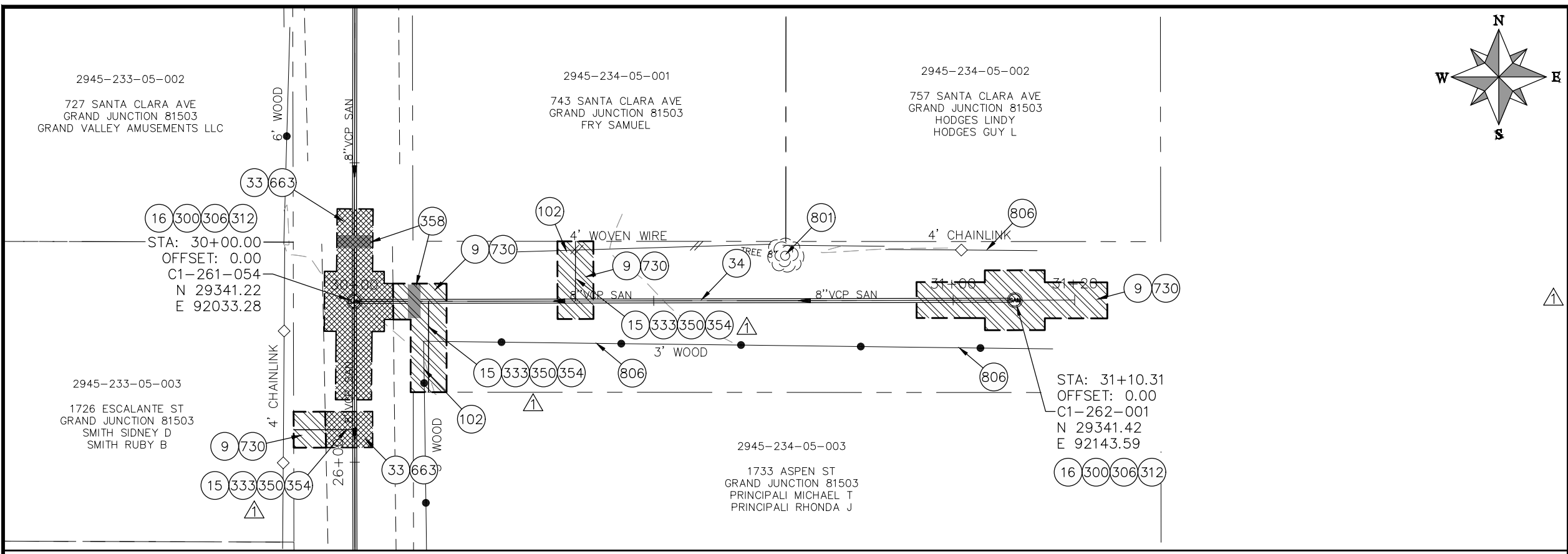
VERTICAL: 1" = 5'



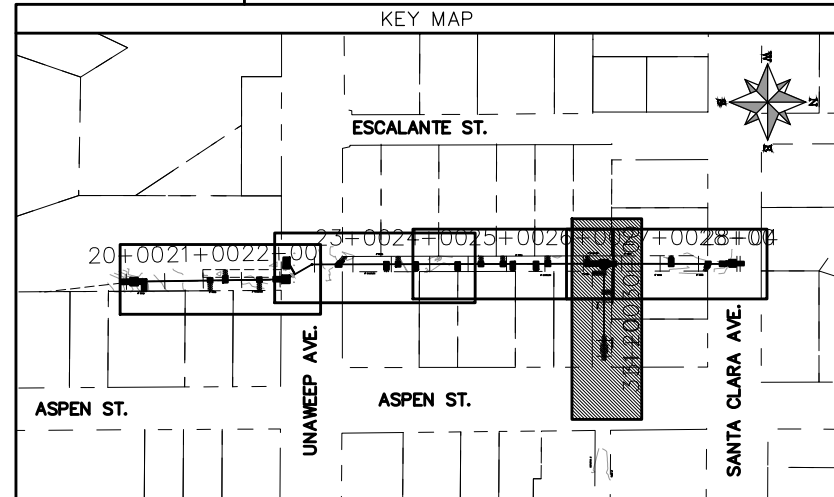
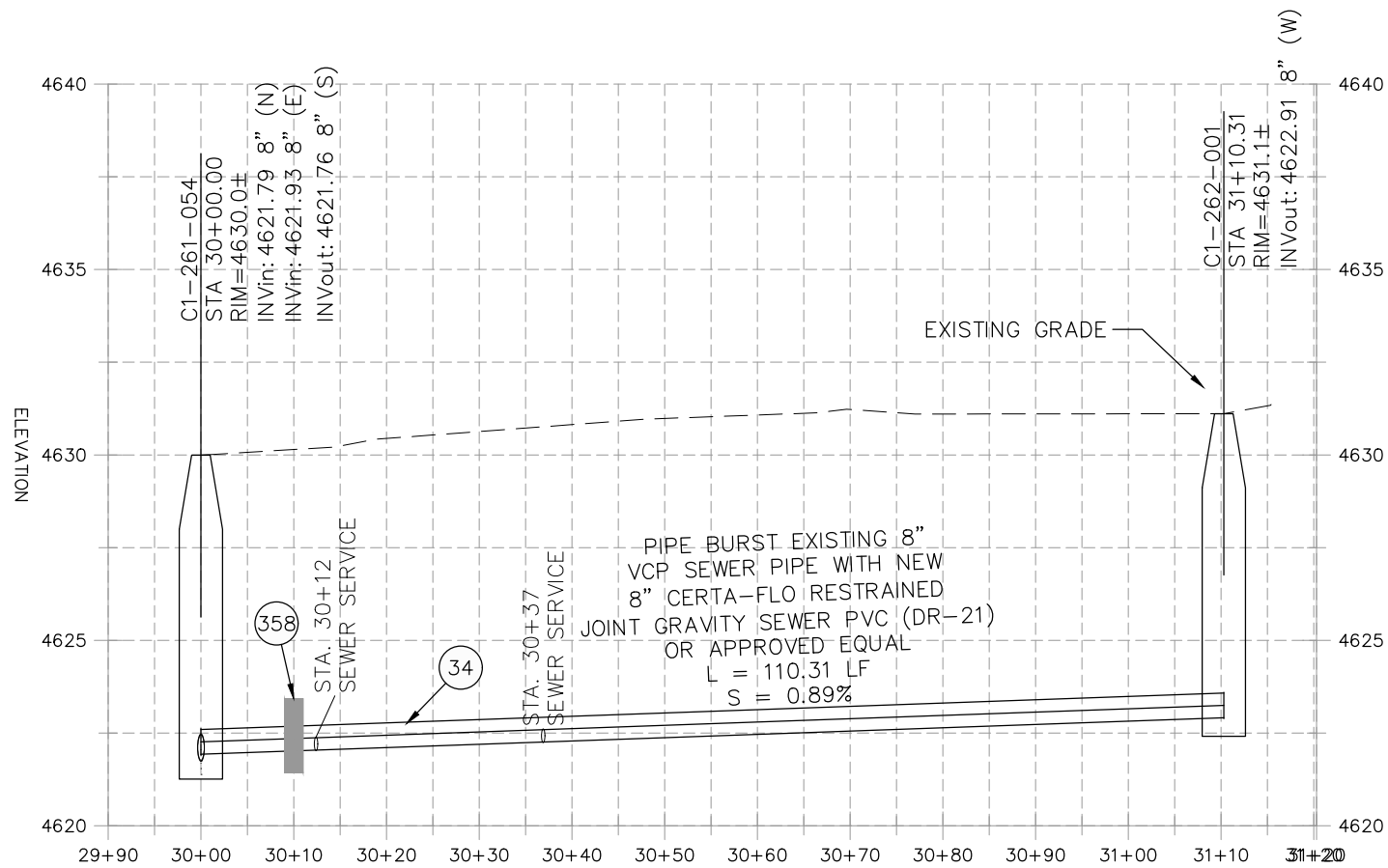
**PUBLIC WORKS ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unaweep Ave\60\CAD\DESIGN\REVISION 1\Escalante Alley.dwg, 7/1/2021 7:09:45 AM, AutoCAD PDF (General Documentation).pc3



- 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) (100 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
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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.
REVISION $\Delta$ UPDATES TO PLAN AND PROFILES		06/2021	----
REVISION $\Delta$ XXX		202X	
REVISION $\Delta$ XXX		202X	
REVISION $\Delta$ XXX		202X	

DRAWN BY	DJM	DATE	04/2021
DESIGNED BY	DJM	DATE	4/2021
CHECKED BY	EM	DATE	2021
APPROVED BY	KH	DATE	2021

**SCALES: PLAN & PROFILE**

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'



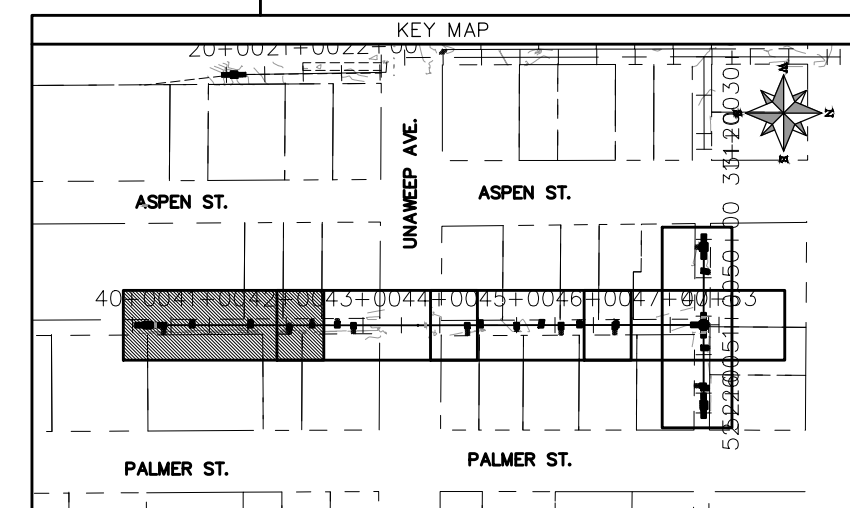
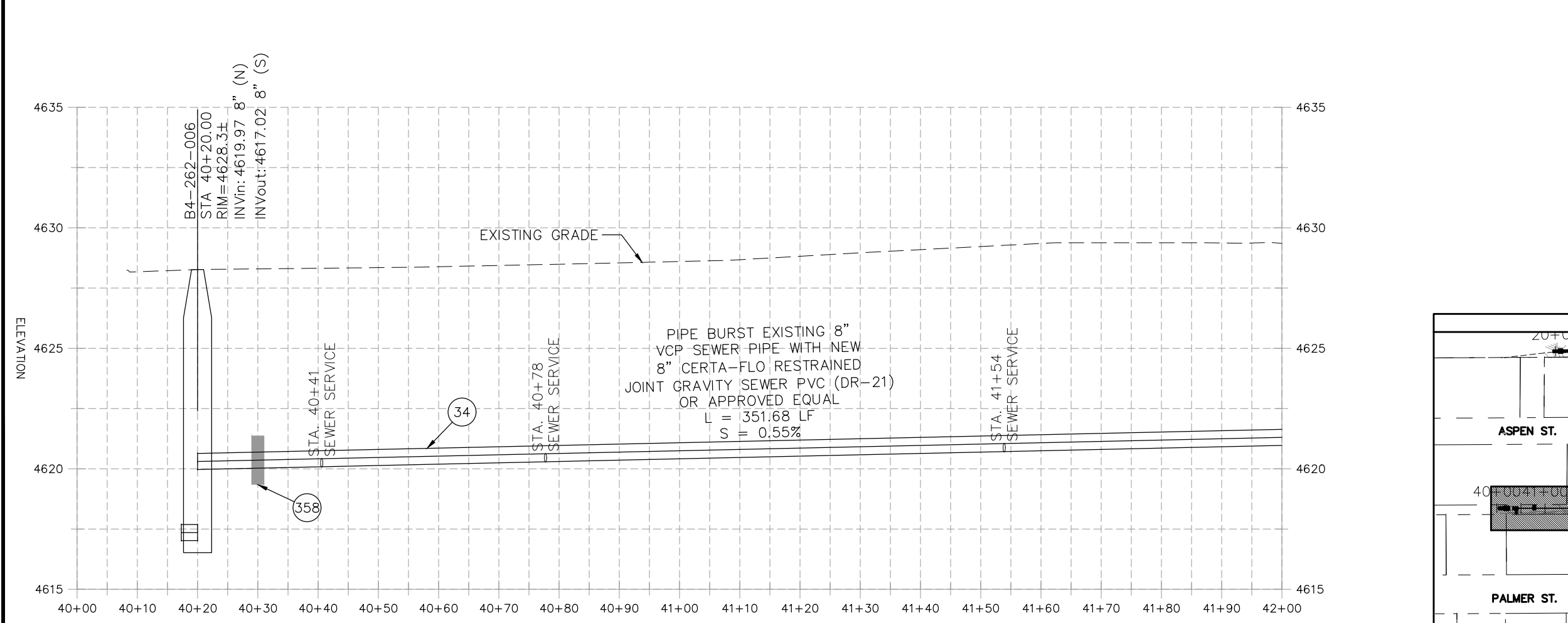
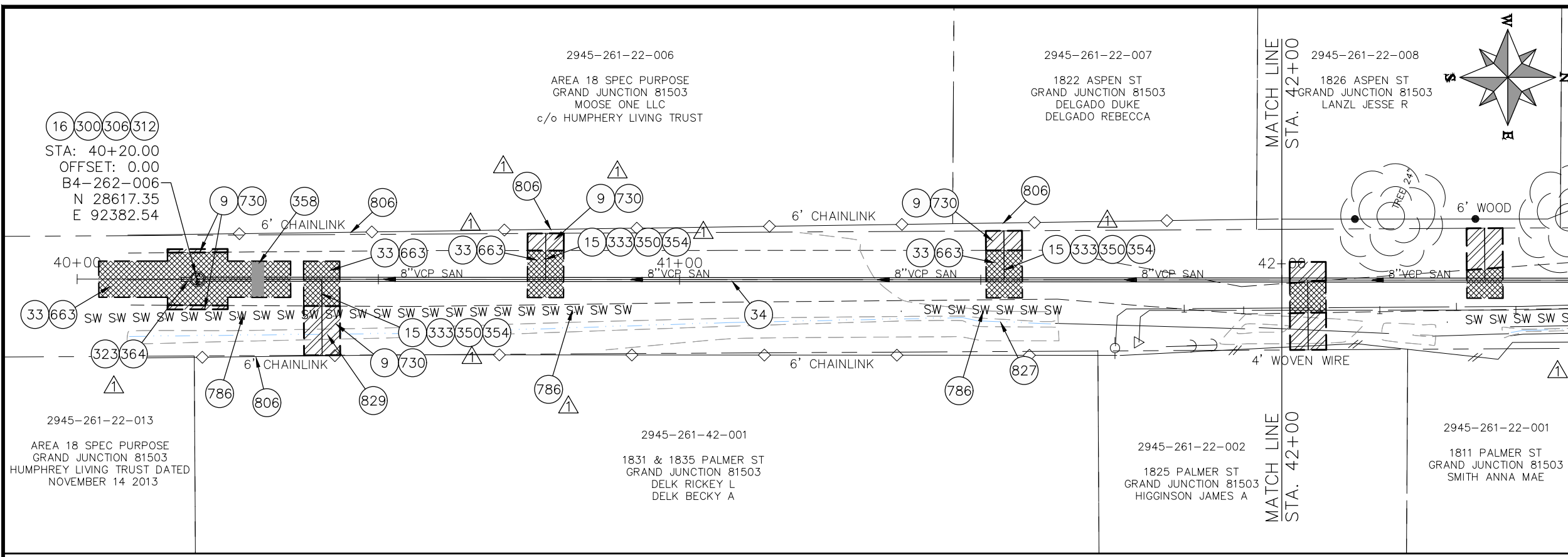
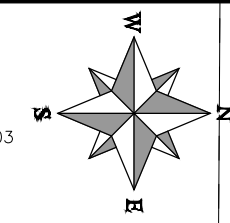
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Escalante Alley.dwg, 7/1/2021 7:10:40 AM, AutoCAD PDF (General Documentation).pc3

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) (100 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.
- 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.
- 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
- 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.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	----	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

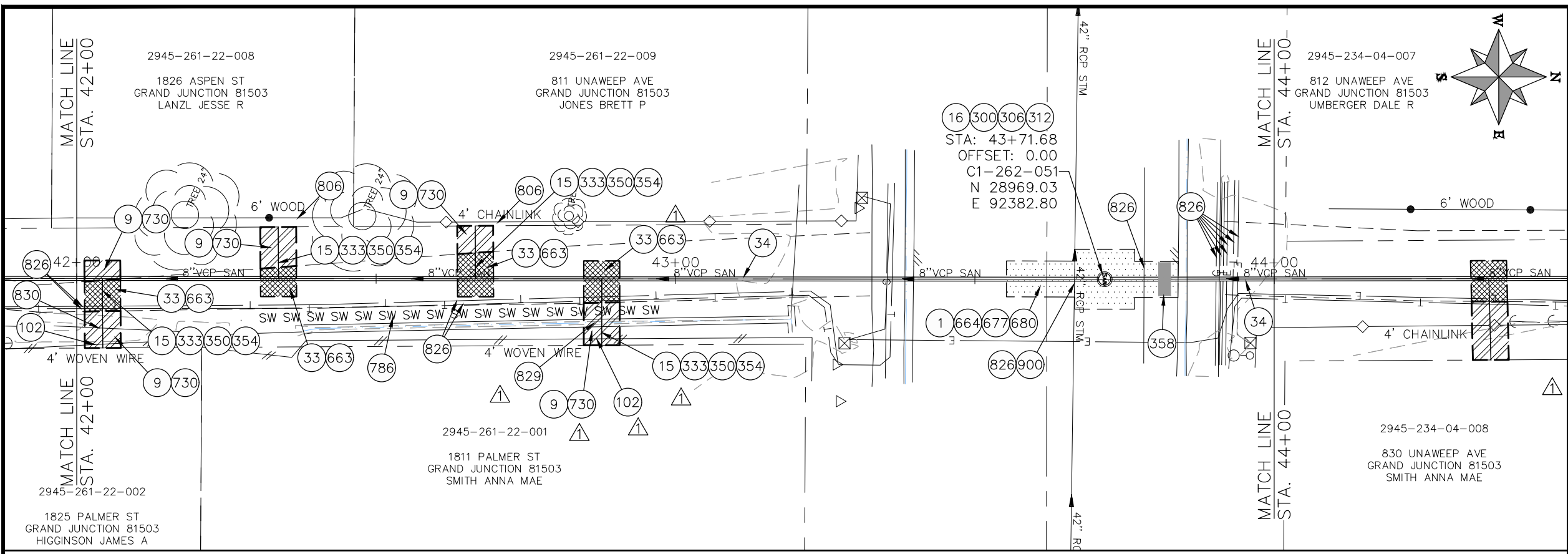
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



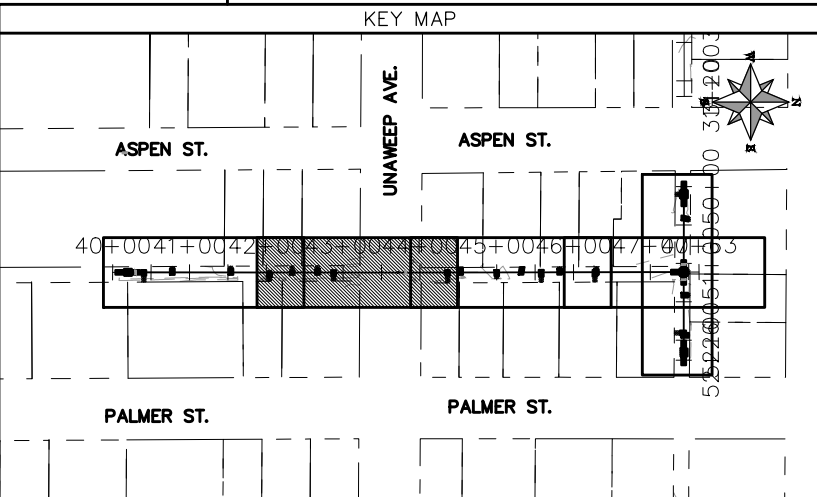
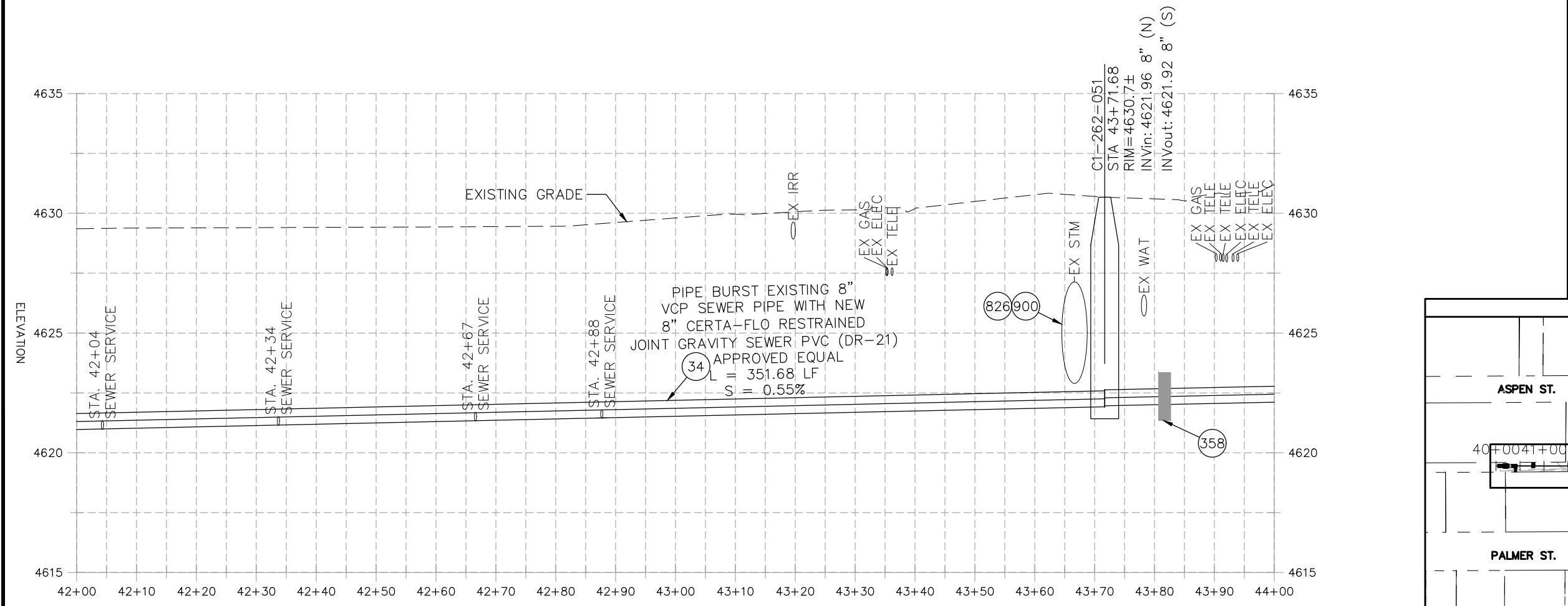
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley.dwg, 7/1/2021 7:11:53 AM, AutoCAD PDF (General Documentation).pc3



- ### 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 ECDUR 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) (100 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
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 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.
  - 829 PROTECT IRRIGATION CULVERT. COST IS INCIDENTAL TO COST OF CONSTRUCTION.
  - 830 PROTECT GUY WIRE AND POWER POLE.
  - 900 CONTRACTOR AND CITY TO VERIFY INVERT ELEVATION OF EXISTING STORM SEWER. CONTRACTOR SHALL ENCASE SANITARY SEWER PIPE (PER CITY SPECIFICATION GU-04). POT HOLING REQUIRED.

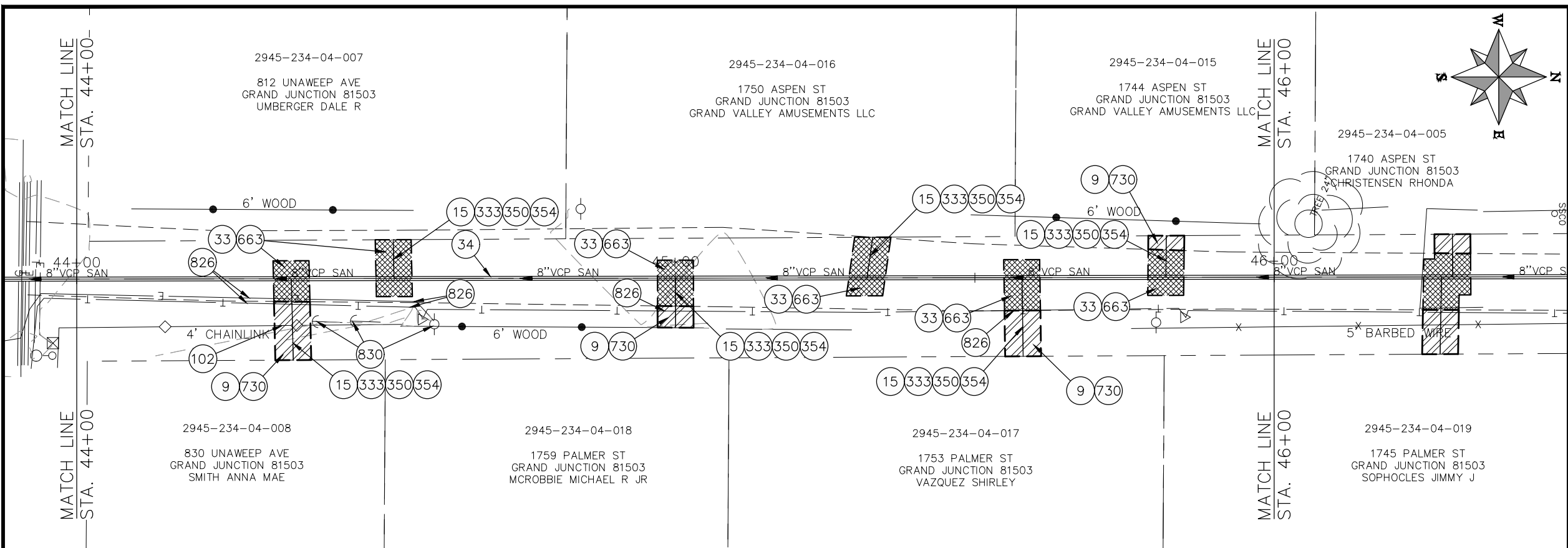


REVISION	DESCRIPTION	DATE	PROJECT NO.	SCALE: PLAN & PROFILE
REVISION Δ UPDATES TO PLAN AND PROFILES		06/2021	----	HORIZONTAL: 1" = 20'
REVISION Δ XXX		202X	DJM	5' 10' 20'
REVISION Δ XXX		202X	DJM	VERTICAL: 1" = 5'
REVISION Δ XXX		202X	EM	0 1.25 2.5 5'
REVISION Δ XXX		202X	KH	

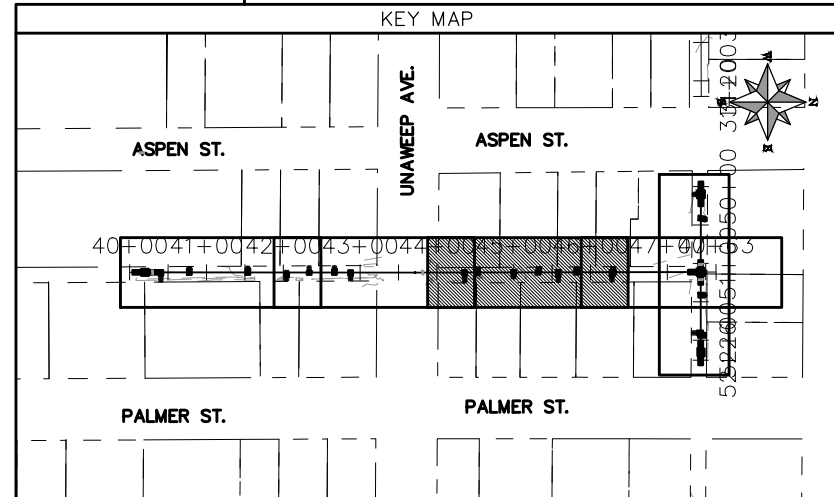
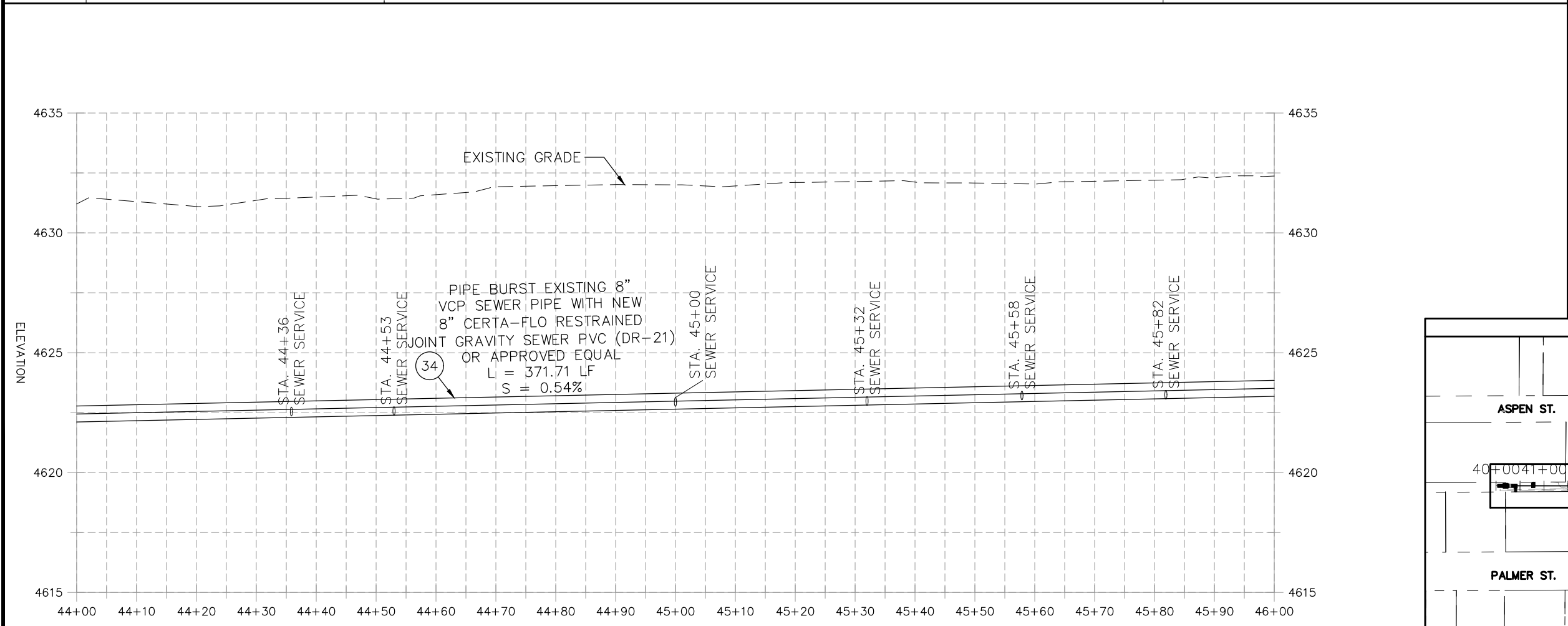


**PUBLIC WORKS  
ENGINEERING DIVISION**

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



- CONSTRUCTION NOTES**
- (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)
  - (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.
  - (102) 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - (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
  - (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - (354) 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - (730) 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - (826) PROTECT EXISTING UTILITY LINE IN PLACE.
  - (830) PROTECT GUY WIRE AND POWER POLE



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

SCALE	DATE
HORIZONTAL: 1" = 20'	04/2021
VERTICAL: 1" = 5'	4/2021

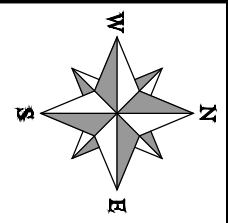
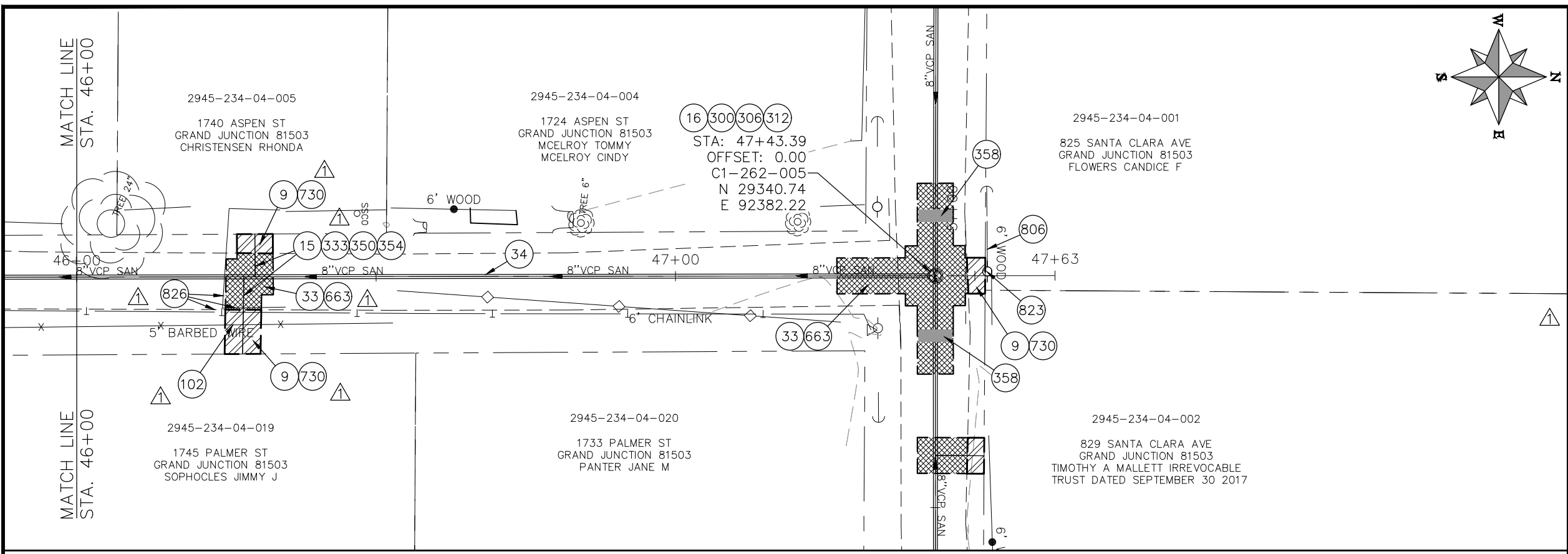


**PUBLIC WORKS  
ENGINEERING DIVISION**

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

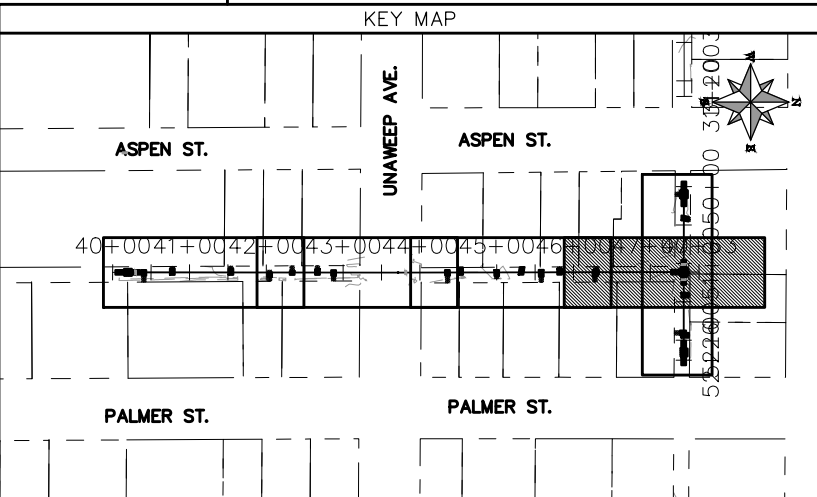
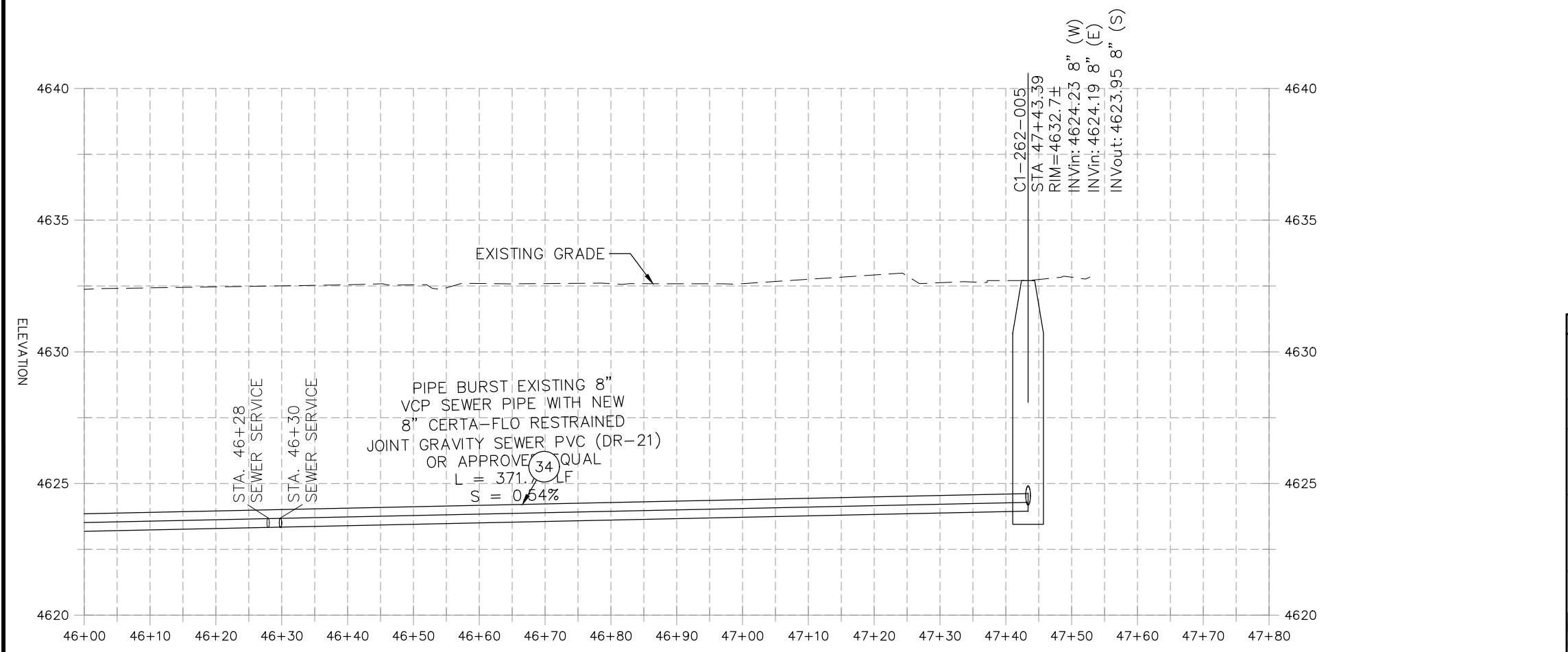
N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley.dwg, 7/1/2021 7:13:19 AM, AutoCAD PDF (General Documentation).pc3





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) (100 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
- 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
- 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
- 826 PROTECT EXISTING UTILITY LINE IN PLACE



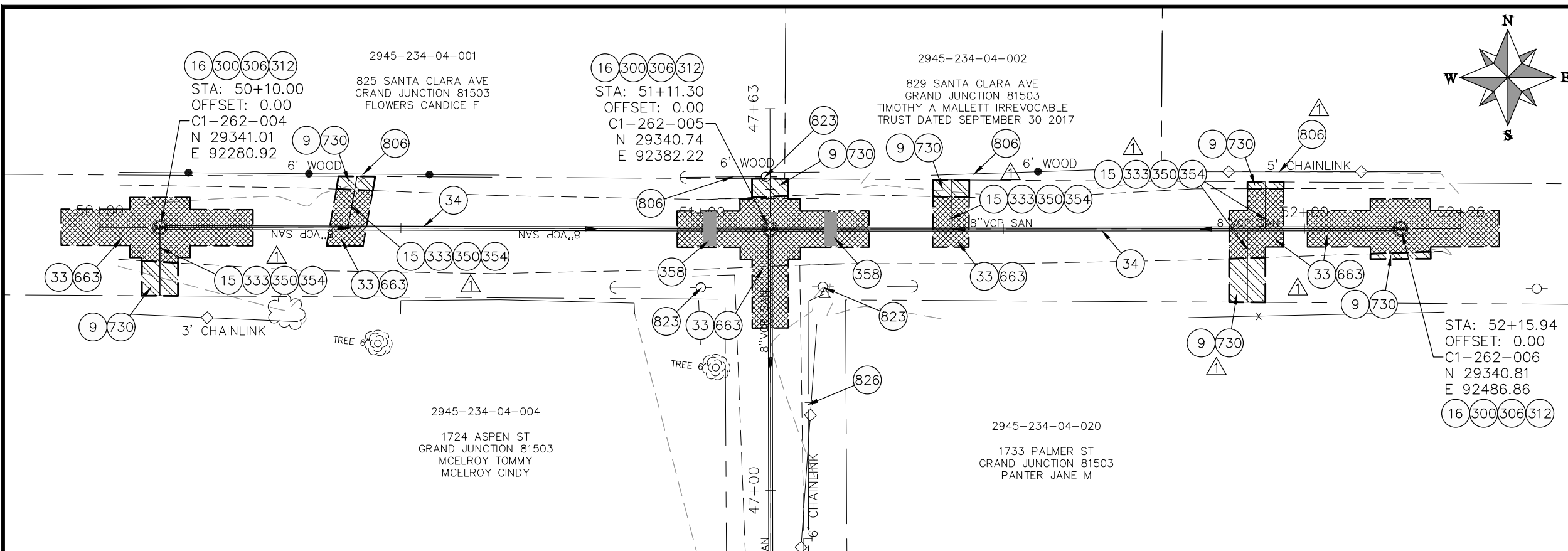
REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	----	04/2021
REVISION Δ	XXX	202X	DESIGNED BY DJM	DATE 4/2021
REVISION Δ	XXX	202X	CHECKED BY EM	DATE 2021
REVISION Δ	XXX	202X	APPROVED BY KH	DATE 2021

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

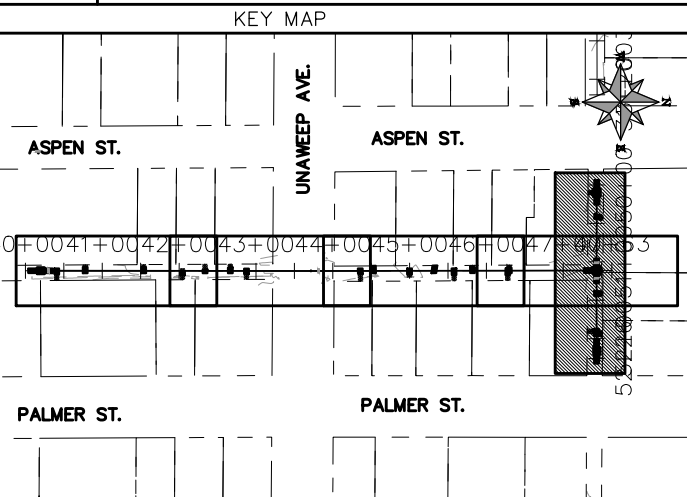
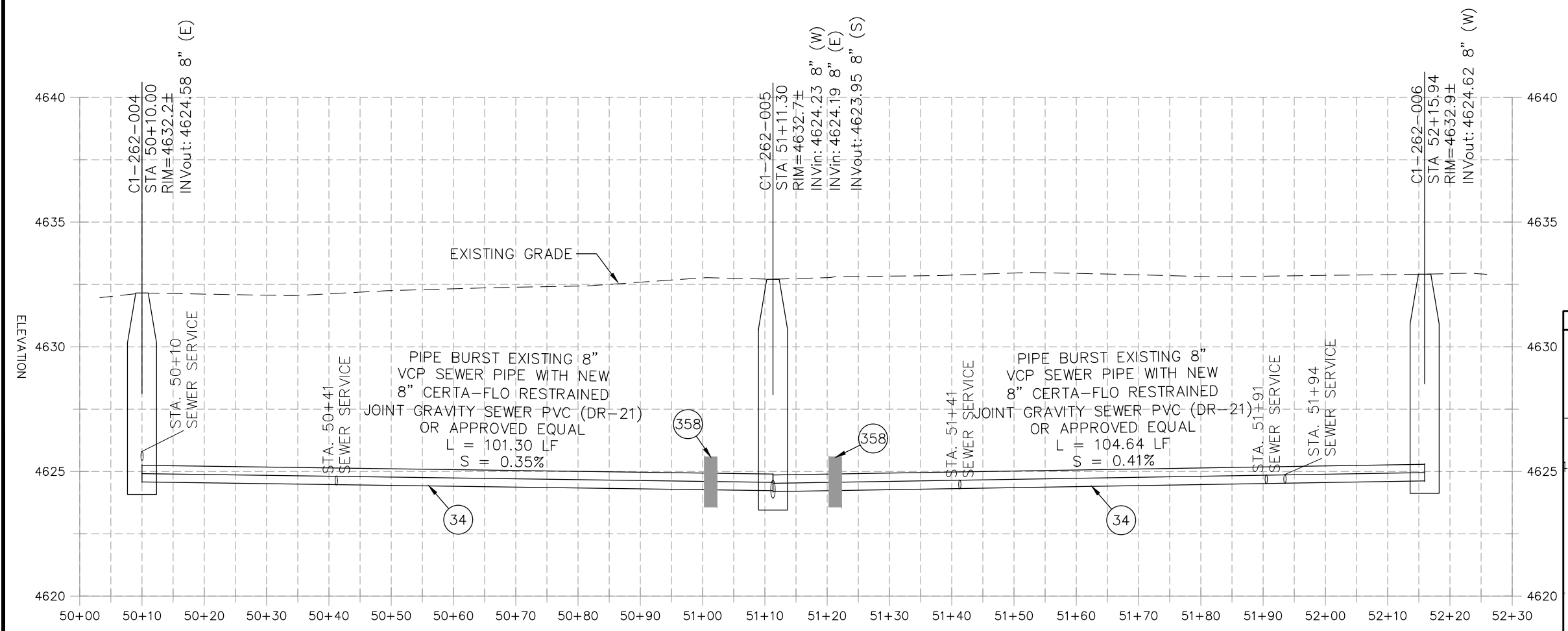


PUBLIC WORKS  
ENGINEERING DIVISION

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



- 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) (100 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
  - (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - (354) 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - (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



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	----	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

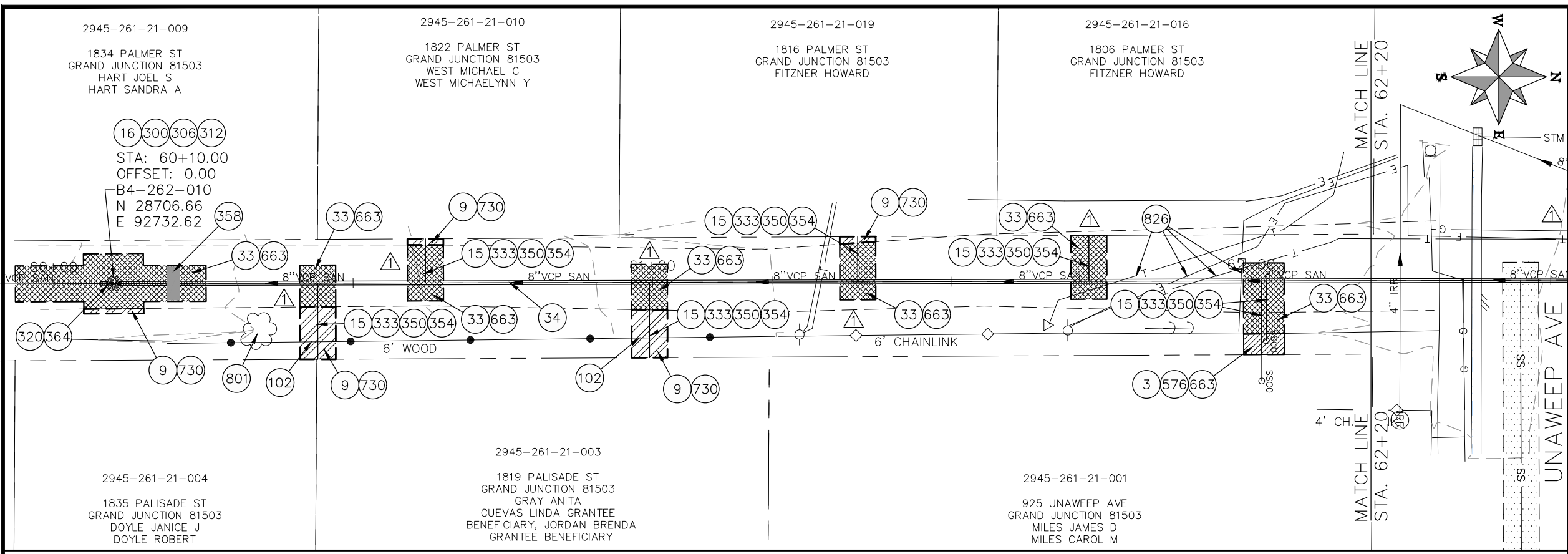
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



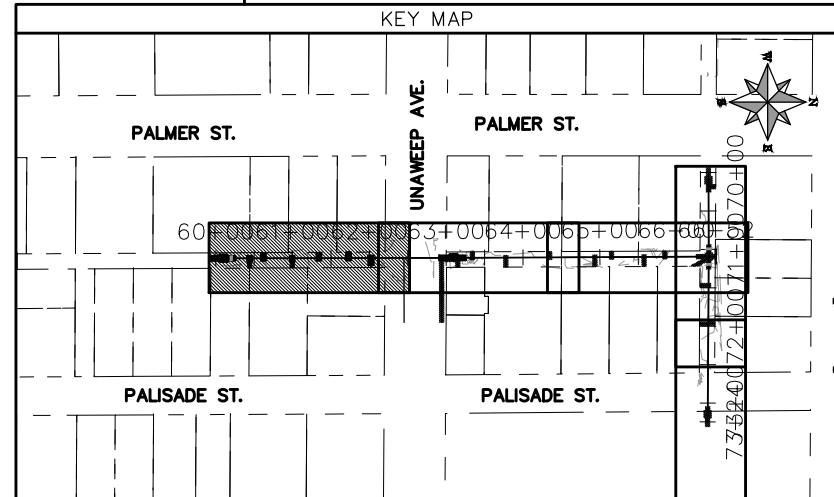
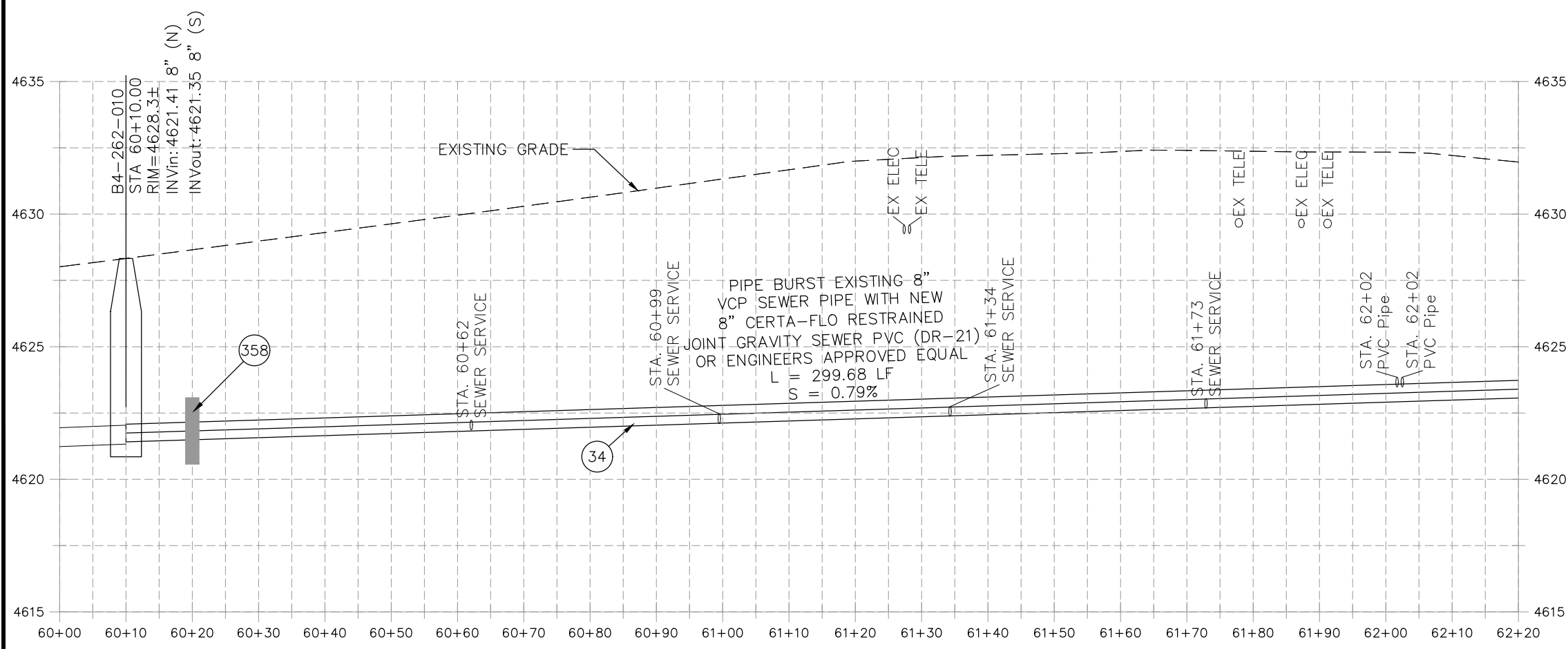
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley.dwg, 7/1/2021 7:14:39 AM, AutoCAD PDF (General Documentation).pc3



- ### 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.
  - 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 (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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
△	UPDATES TO PLAN AND PROFILES	06/2021	----	04/2021
XXX		202X	DJM	4/2021
XXX		202X	DJM	2021
XXX		202X	EM	2021
XXX		202X	KH	2021

SCALES: PLAN & PROFILE

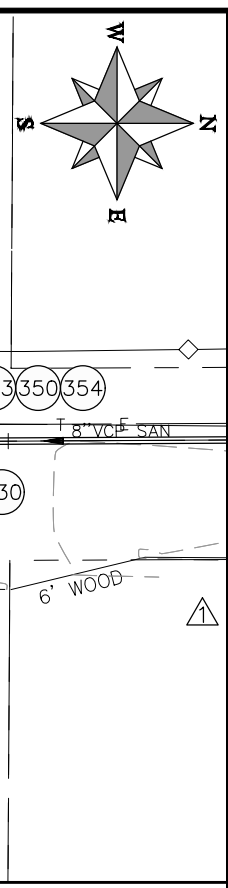
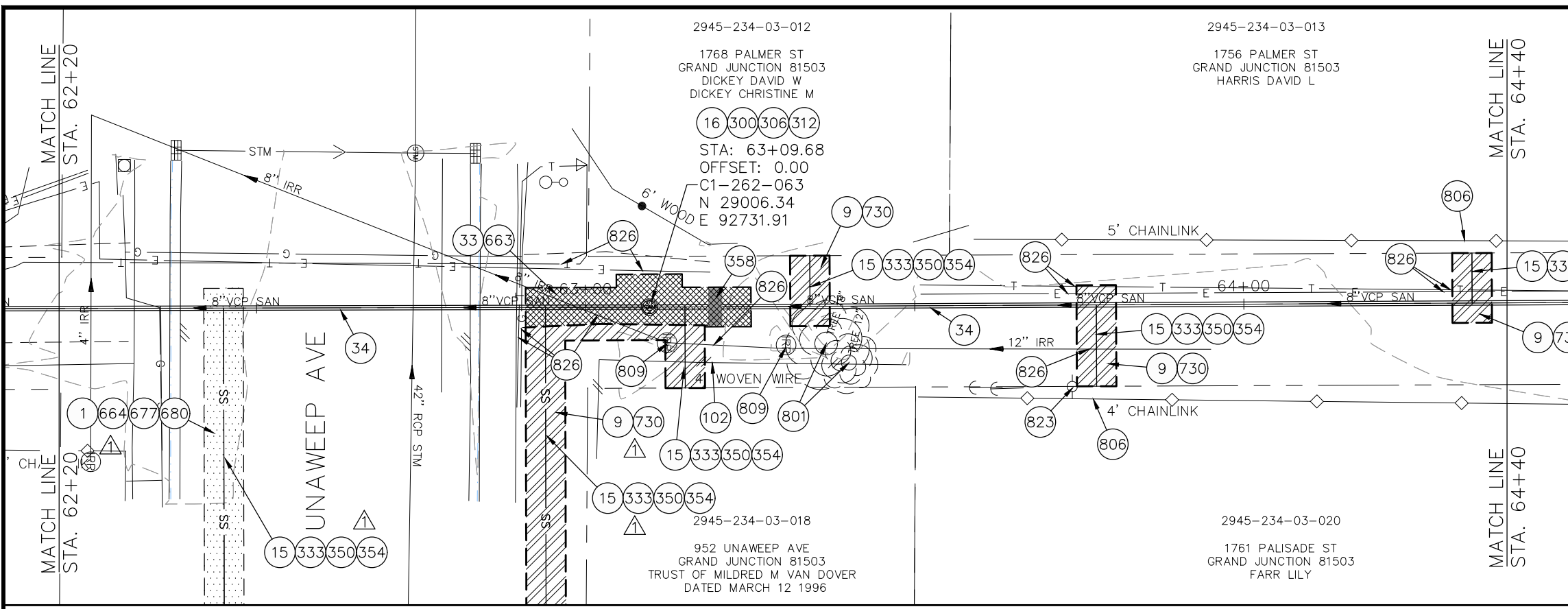
HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

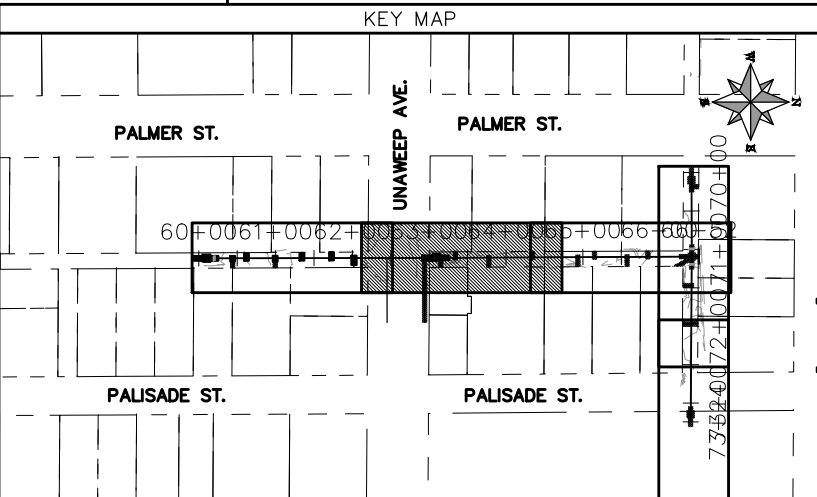
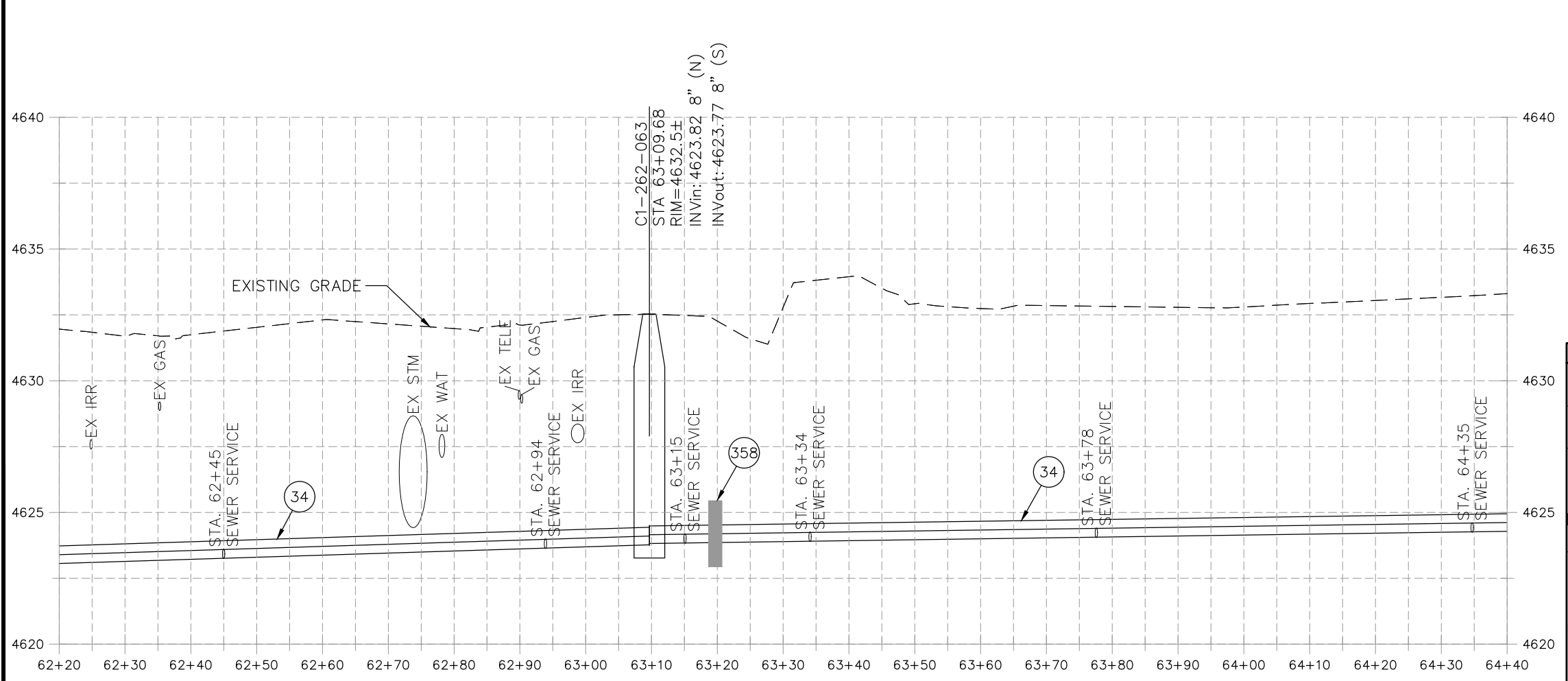


PUBLIC WORKS  
ENGINEERING DIVISION

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



- 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 (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) (100 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
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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)
  - 801 PROTECT TREE
  - 806 PROTECT FENCE
  - 809 PROTECT MANHOLE
  - 823 PROTECT UTILITY POLE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



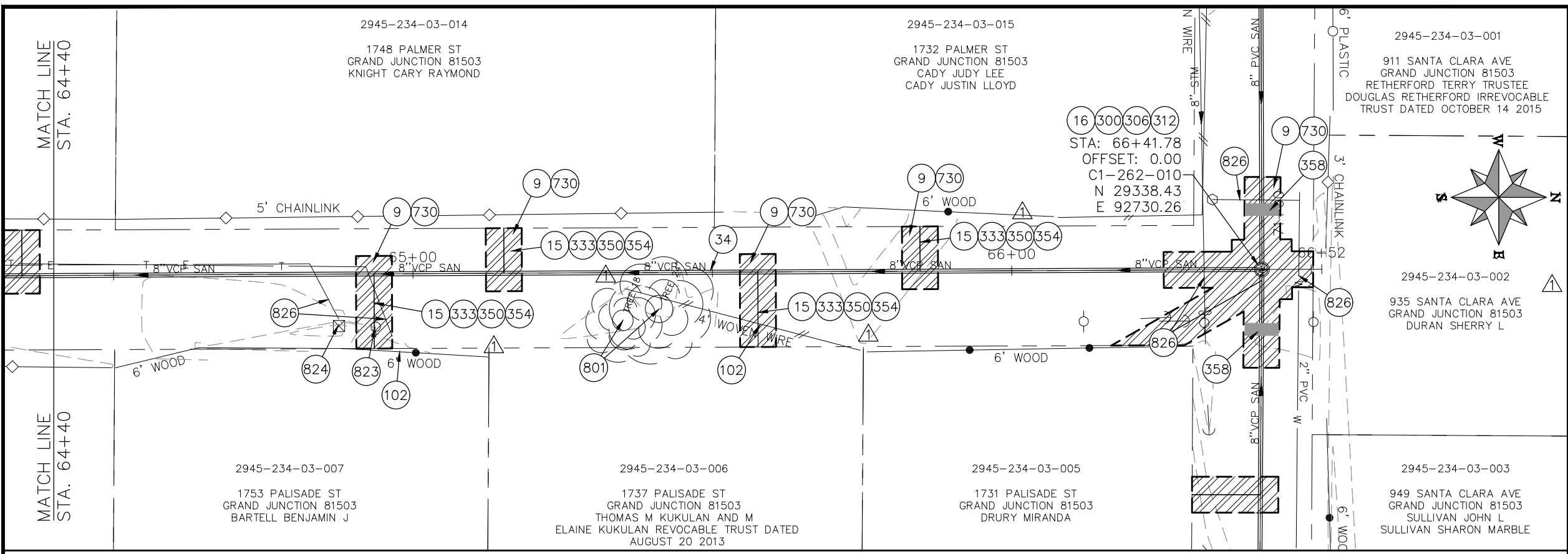
REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	---	04/2021
REVISION Δ	XXX	202X	---	4/2021
REVISION Δ	XXX	202X	---	2021
REVISION Δ	XXX	202X	---	2021

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

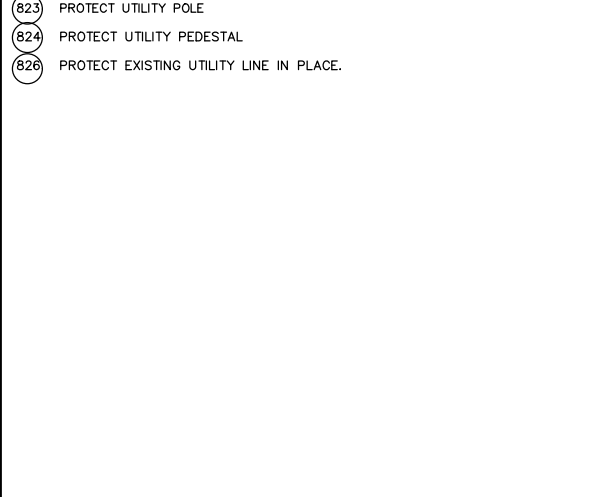
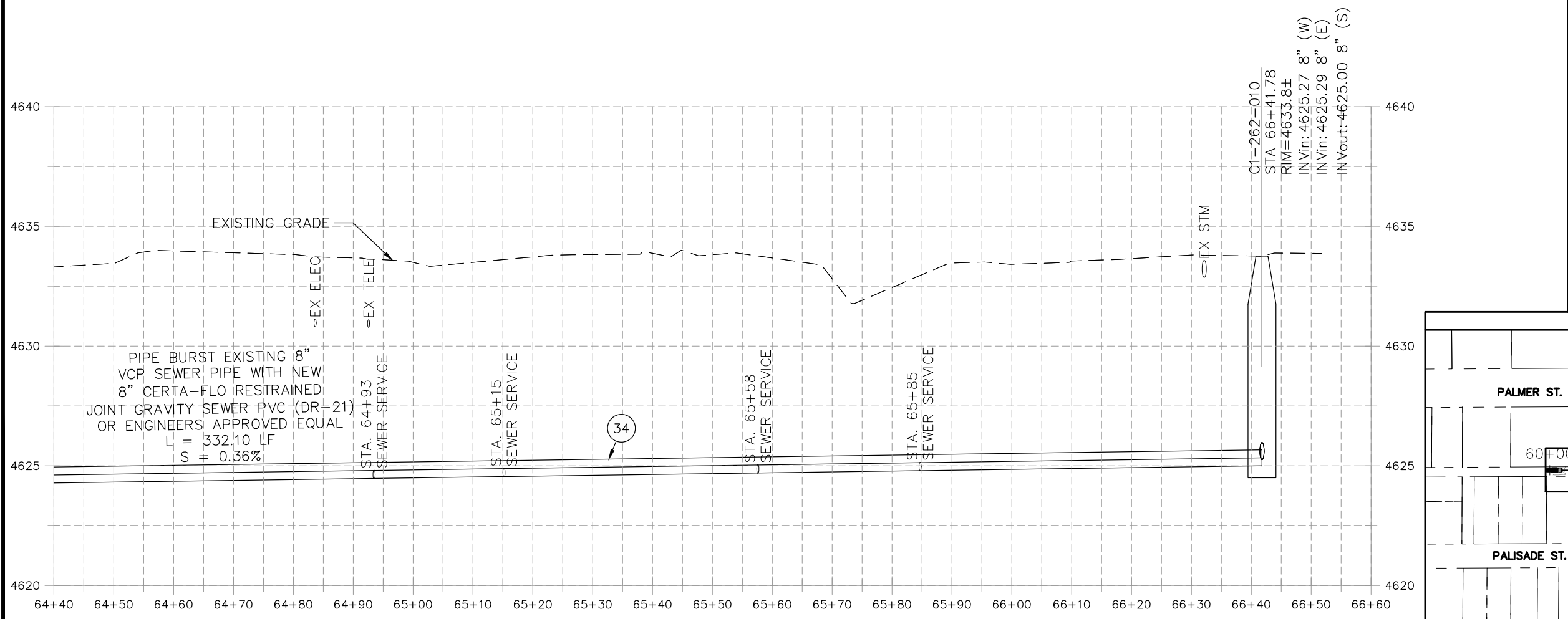


**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
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 (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) (100 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
  - (350) 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - (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.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION $\Delta$ UPDATES TO PLAN AND PROFILES		06/2021		04/2021
REVISION $\Delta$ XXX		202X		4/2021
REVISION $\Delta$ XXX		202X		2021
REVISION $\Delta$ XXX		202X		2021

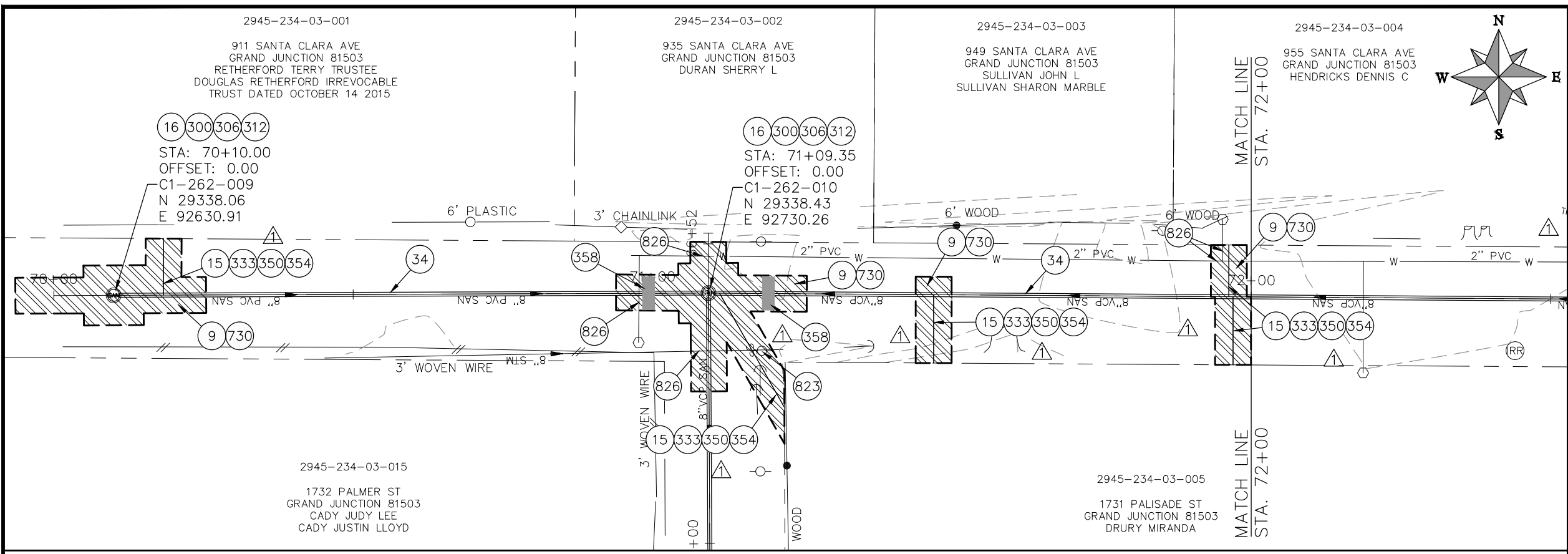
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



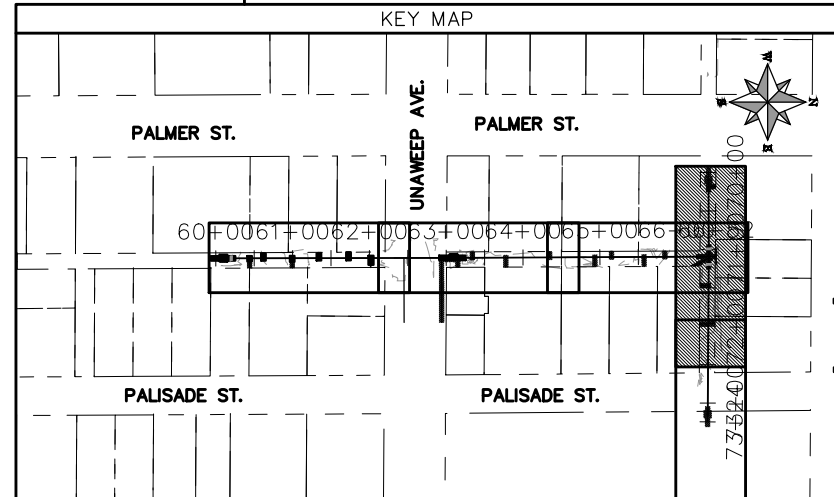
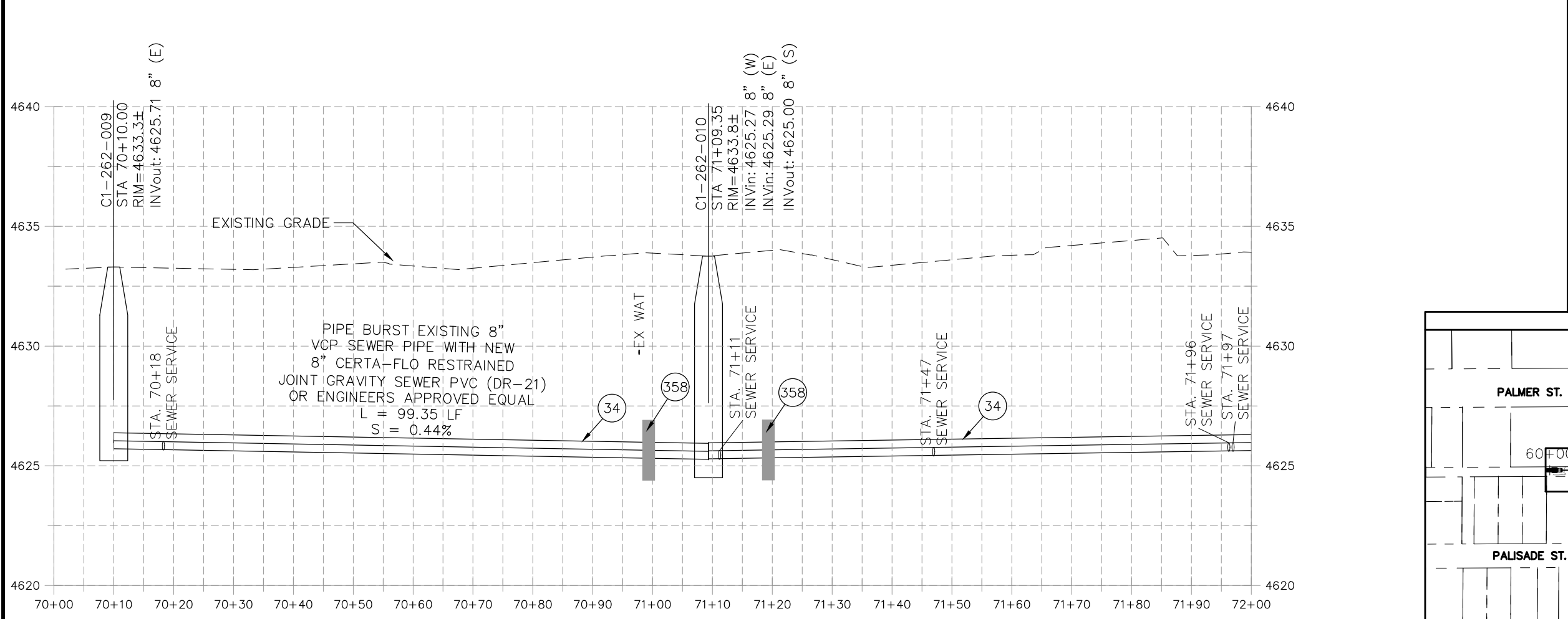
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 64+40 TO STA 66+52**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley.dwg, 7/1/2021 7:16:59 AM, AutoCAD PDF (General Documentation).pc3



- 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
  - 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 (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) (100 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.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ UPDATES TO PLAN AND PROFILES		06/2021	----	04/2021
REVISION Δ XXX		202X		4/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

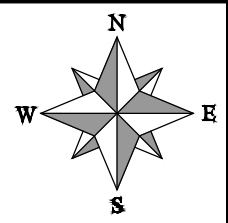
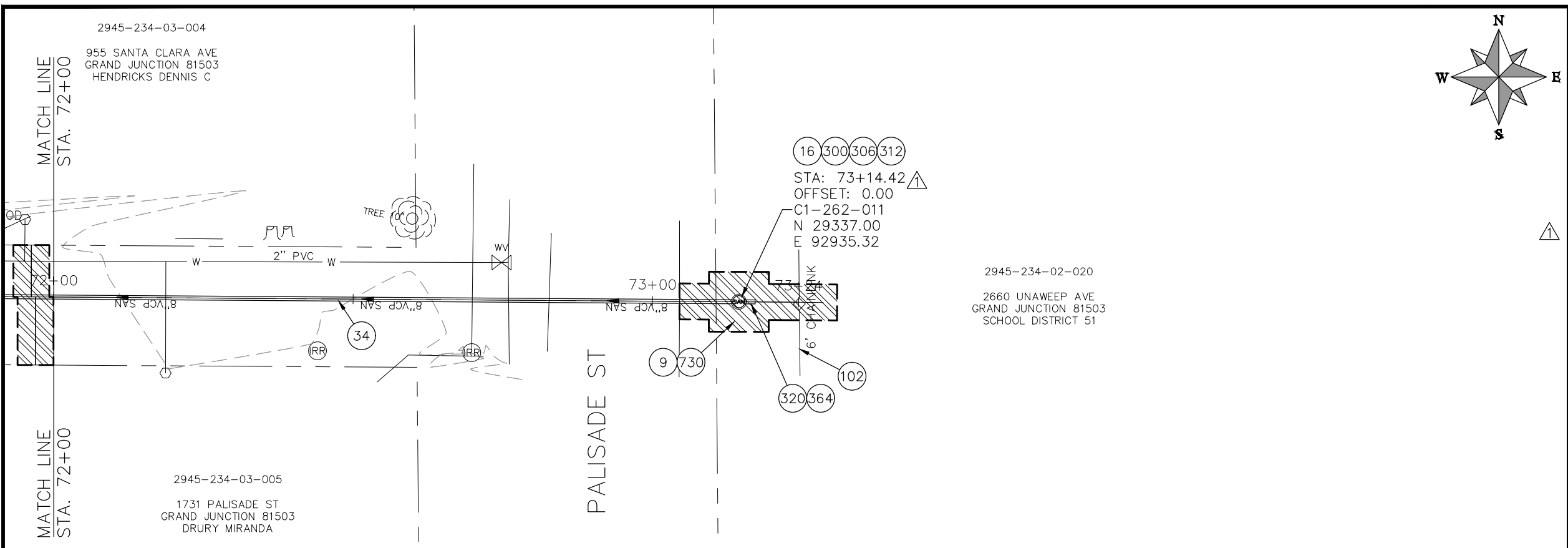
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



**PUBLIC WORKS  
ENGINEERING DIVISION**

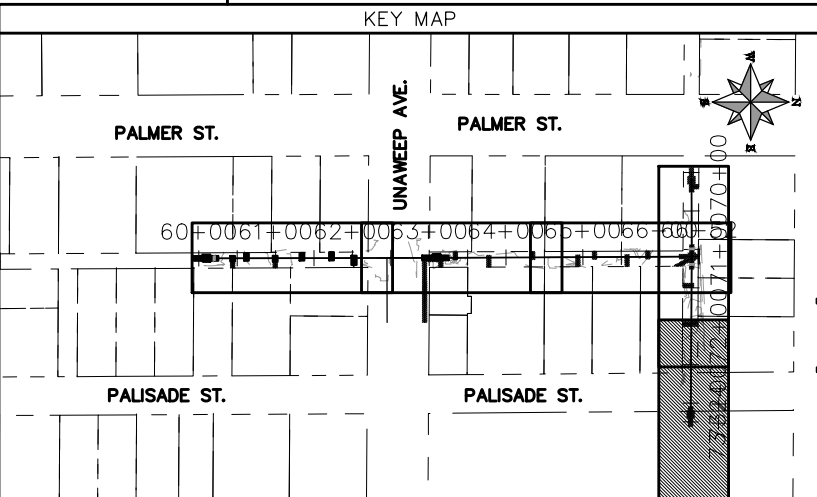
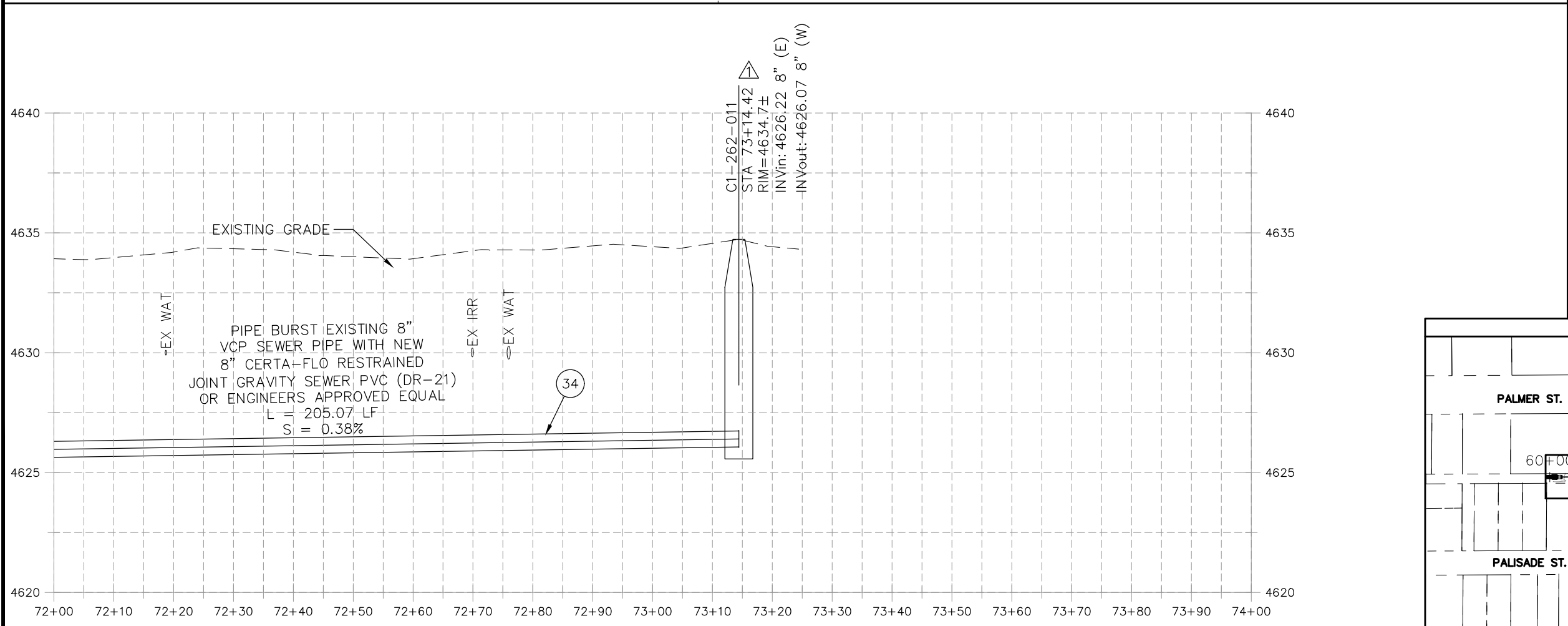
**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST & PALISADE ST ALLEY PLAN AND PROFILE  
STA 70+00 TO 72+00**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawsep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley.dwg, 7/1/2021 7:17:39 AM, AutoCAD PDF (General Documentation).pc3



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 (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) (100 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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)



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ	UPDATES TO PLAN AND PROFILES	06/2021	----	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

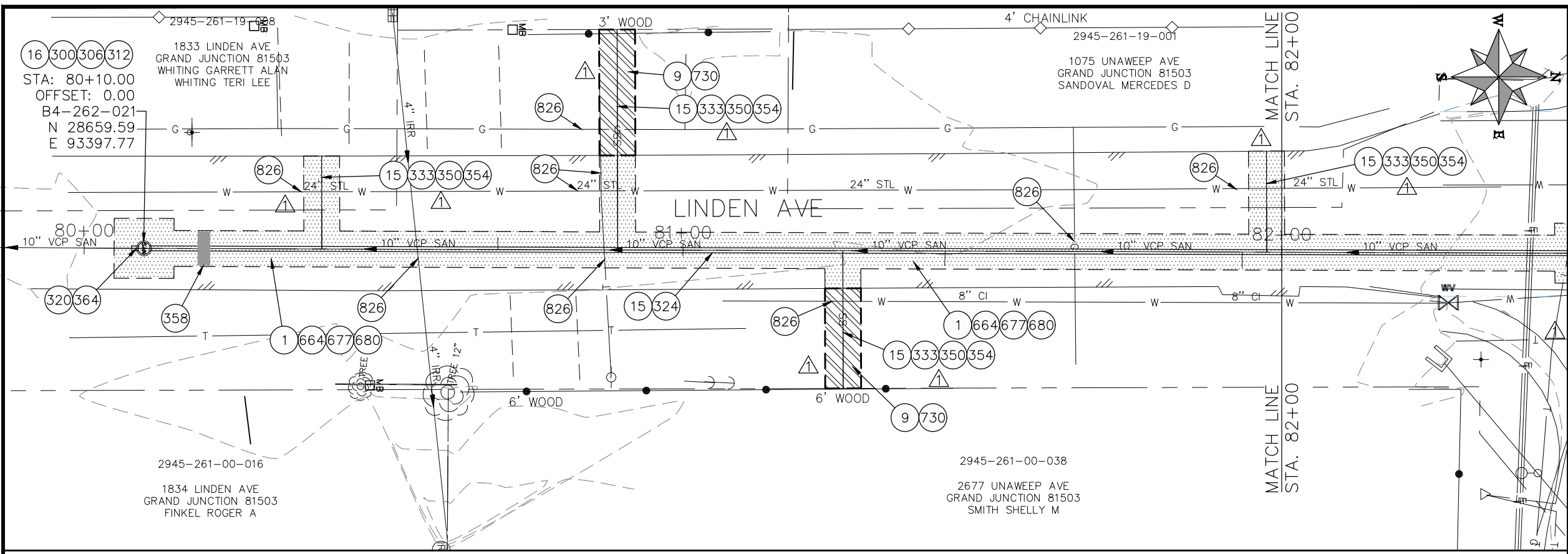
HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

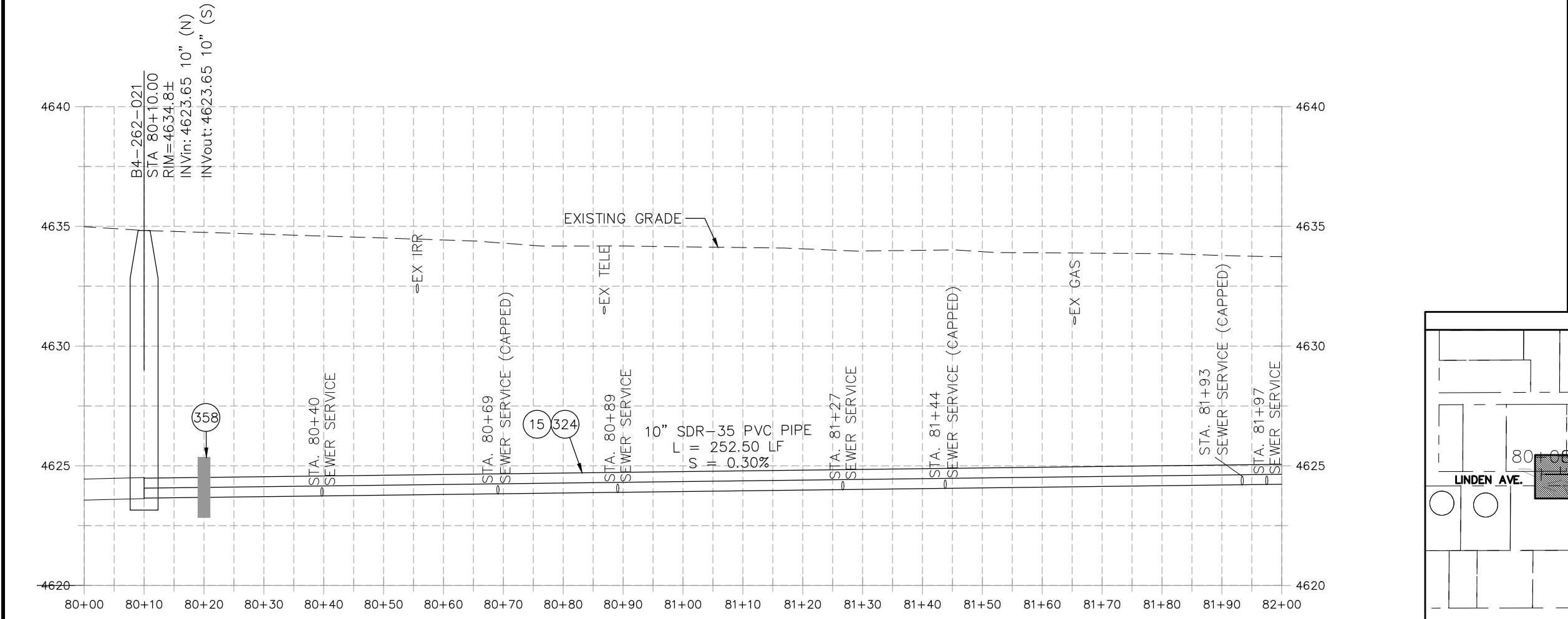
PUBLIC WORKS  
ENGINEERING DIVISION

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley.dwg, 7/1/2021 7:18:19 AM, AutoCAD PDF (General Documentation).pc3



- 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
  - 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 (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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - 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.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 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.
  - 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)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



- KEY MAP**
- 

REVISION	DESCRIPTION	DATE	PROJECT NO.
△	UPDATES TO PLAN AND PROFILES	06/2021	----
XXX		202X	
XXX		202X	
XXX		202X	

DRAWN BY	DJM	DATE	04/2021
DESIGNED BY	DJM	DATE	4/2021
CHECKED BY	EM	DATE	2021
APPROVED BY	KH	DATE	2021

**SCALES: PLAN & PROFILE**

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

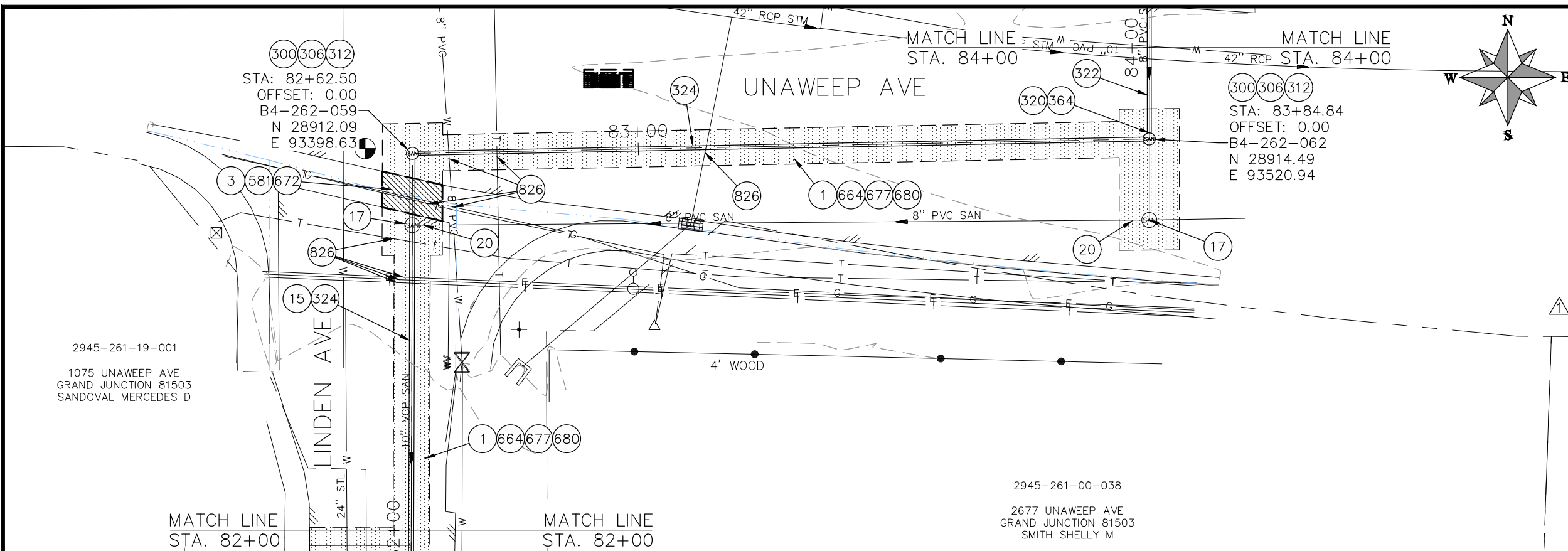


**PUBLIC WORKS  
ENGINEERING DIVISION**

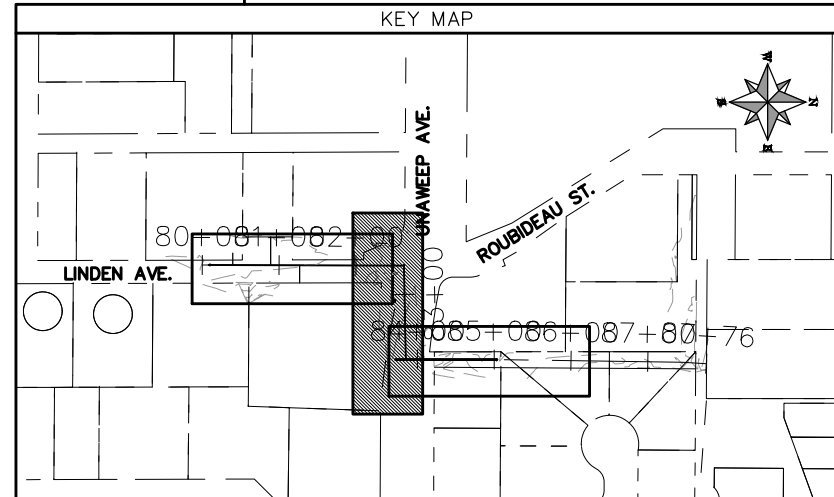
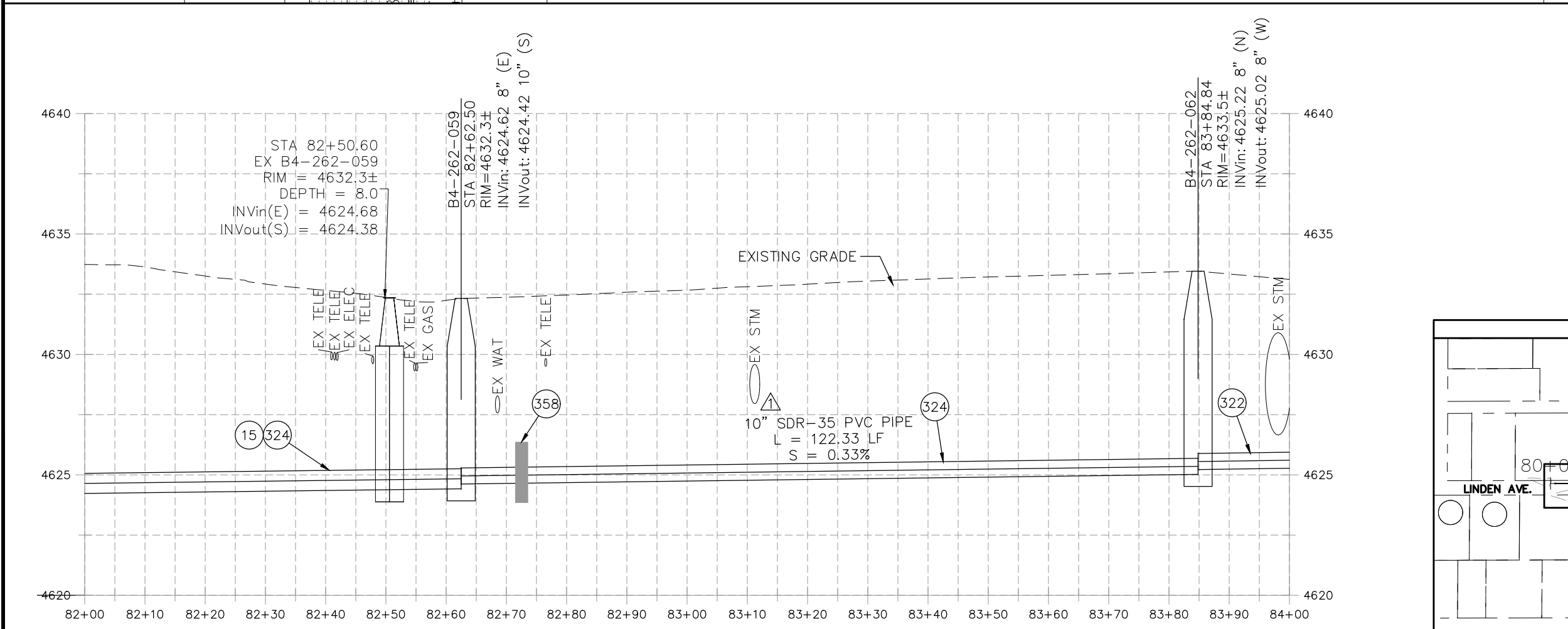
**2021 SEWER LINE REPLACEMENT - PHASE A  
LINDEN AVE PLAN AND PROFILE  
STA 80+00 TO STA 82+00**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\LINDEN AVE.dwg, 7/1/2021 7:19:15 AM, AutoCAD PDF (General Documentation).p3





- ### 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 (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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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).
  - 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.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION A	UPDATES TO PLAN AND PROFILES	06/2021	----	04/2021
REVISION B	XXX	202X	DESIGNED BY DJM	DATE 4/2021
REVISION C	XXX	202X	CHECKED BY EM	DATE 2021
REVISION D	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  
LINDEN AVE PLAN AND PROFILE  
STA 82+00 TO STA 84+00**

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\LINDEN AVE.dwg, 7/1/2021 7:19:54 AM, AutoCAD PDF (General Documentation).p3

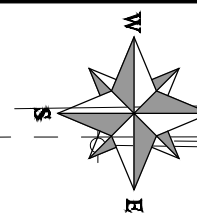


2945-261-03-002

295 27 RD  
GRAND JUNCTION 81503  
NADEAU PROPERTIES LLC

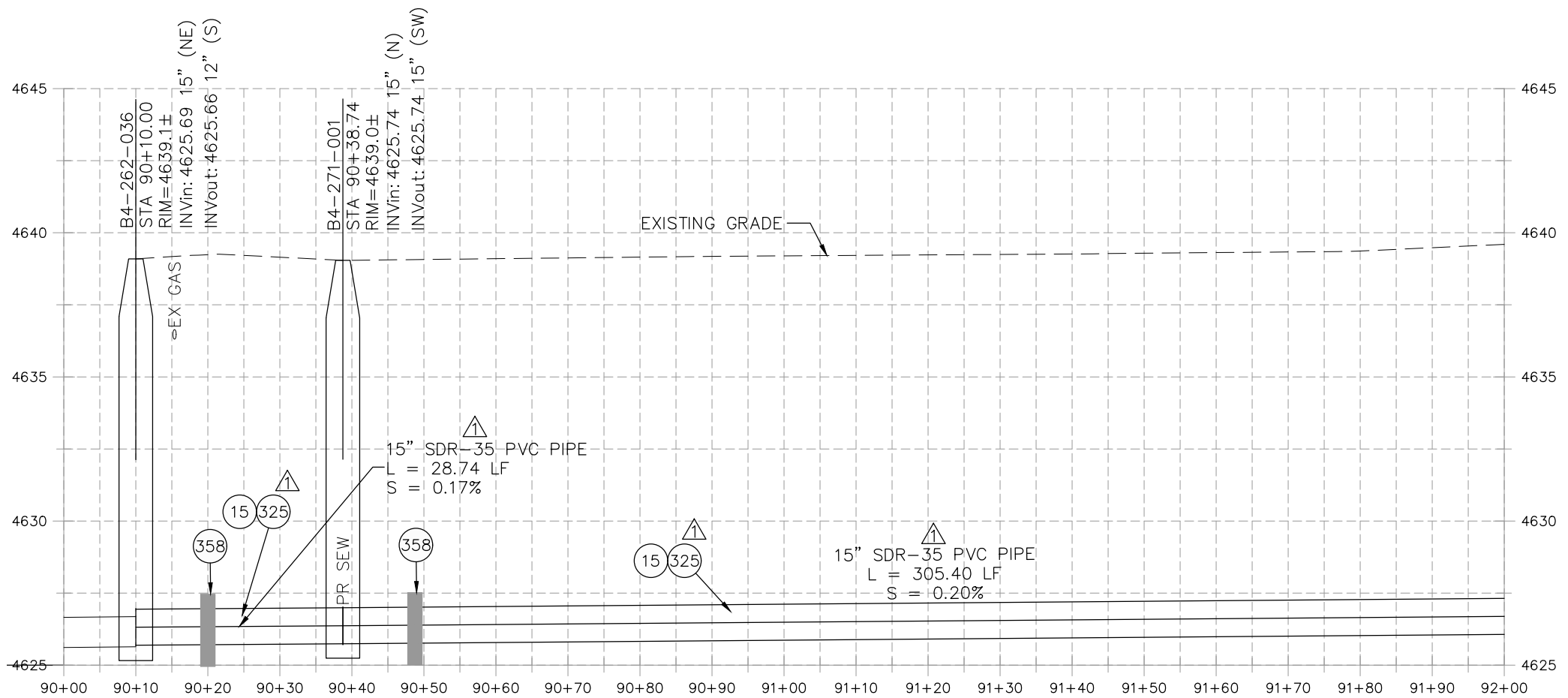
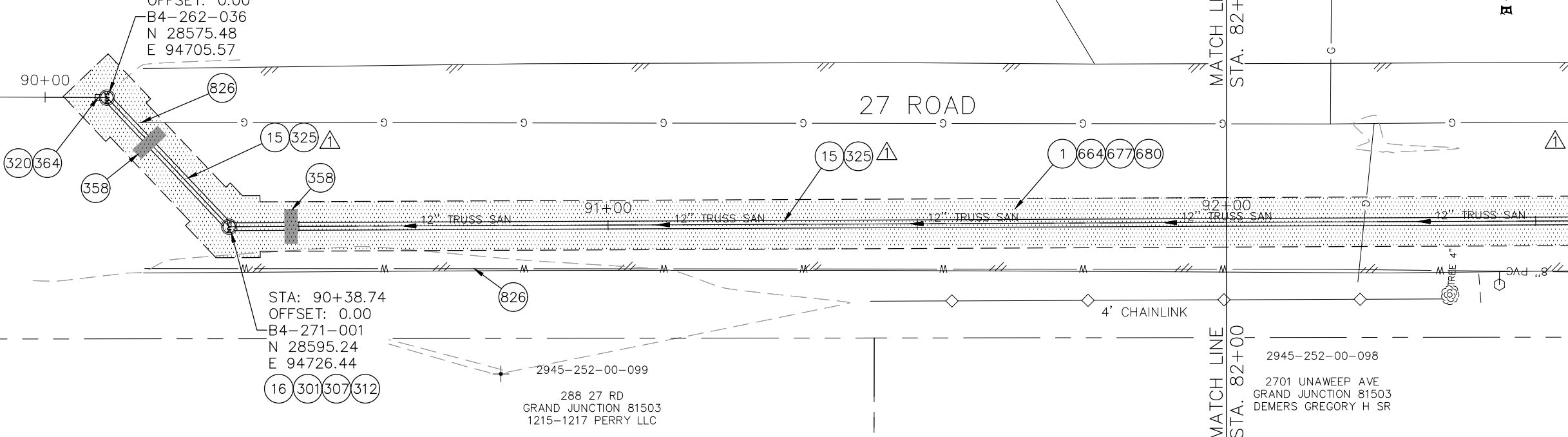
2945-261-00-015

2699 UNAWEEP AVE  
GRAND JUNCTION 81503  
MURPHY CARL DAVID  
MURPHY VERA

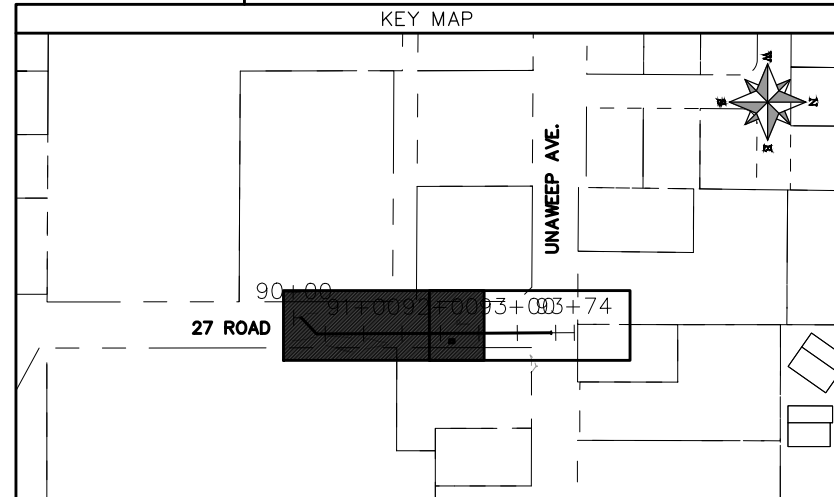


CONSTRUCTION NOTES

- 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
- 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) (100 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
- 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.
- 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	UPDATES TO PLAN AND PROFILES	06/2021	----	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

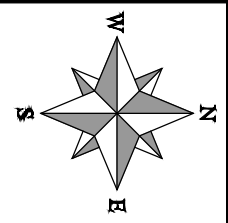
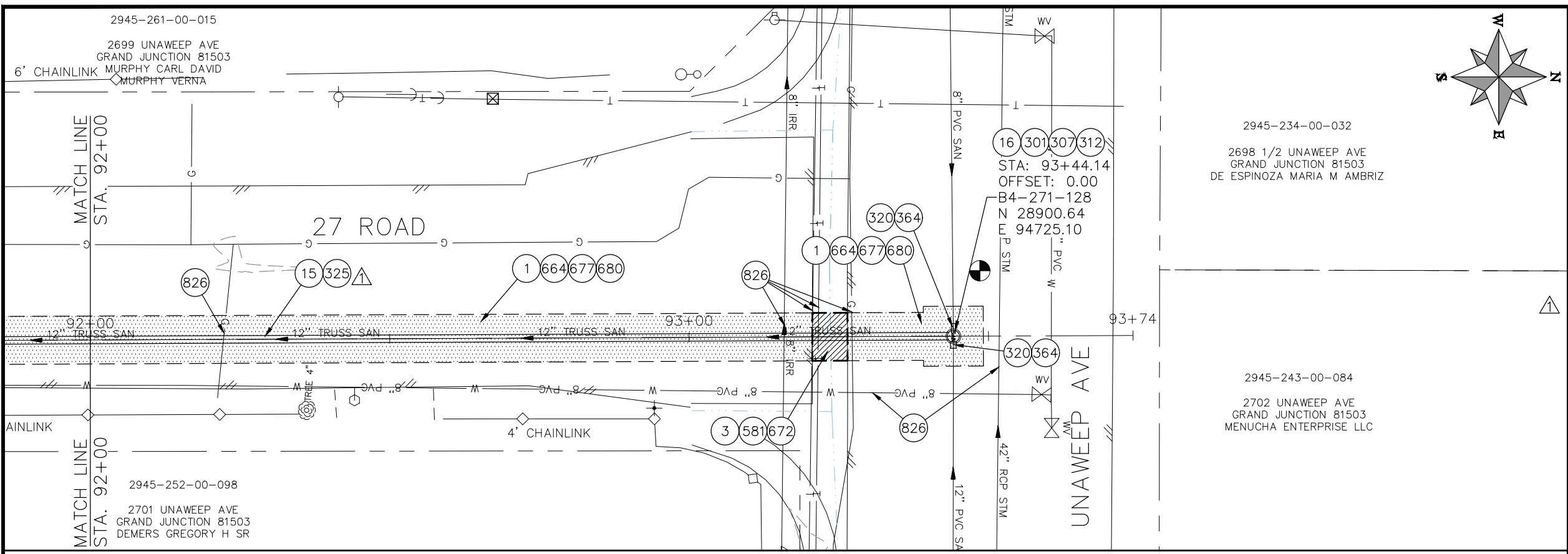
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



PUBLIC WORKS  
ENGINEERING DIVISION

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

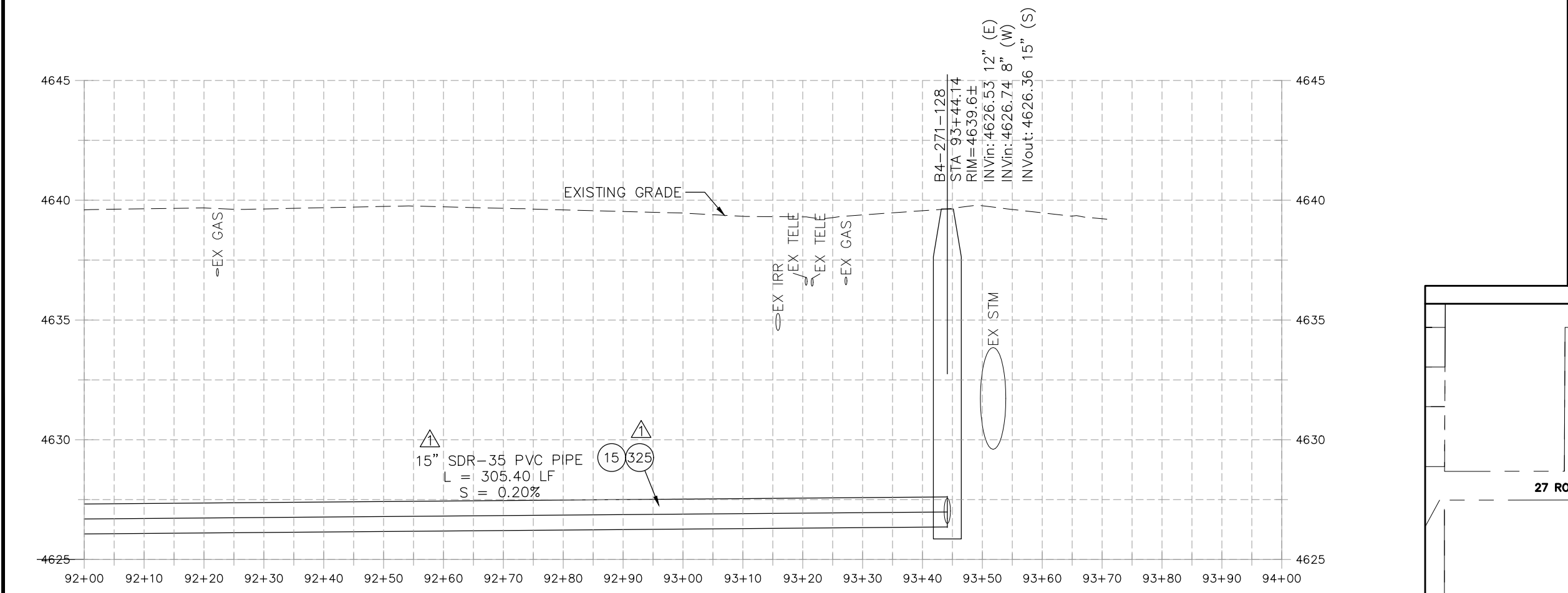
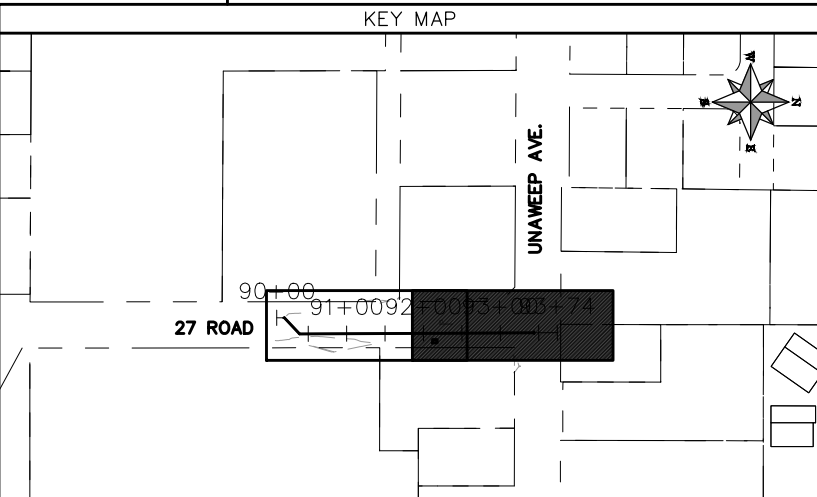
N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\27 ROAD.dwg, 7/1/2021 7:21:34 AM, AutoCAD PDF (General Documentation).prt



**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
- 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) (100 MIL MINIMUM THICKNESS)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
- 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.
- 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 $\Delta$ UPDATES TO PLAN AND PROFILES		06/2021	----	04/2021
REVISION $\Delta$ XXX		202X	DESIGNED BY DJM	DATE 4/2021
REVISION $\Delta$ XXX		202X	CHECKED BY EM	DATE 2021
REVISION $\Delta$ XXX		202X	APPROVED BY KH	DATE 2021

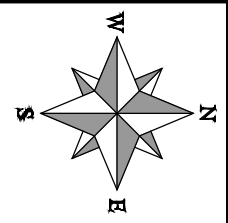
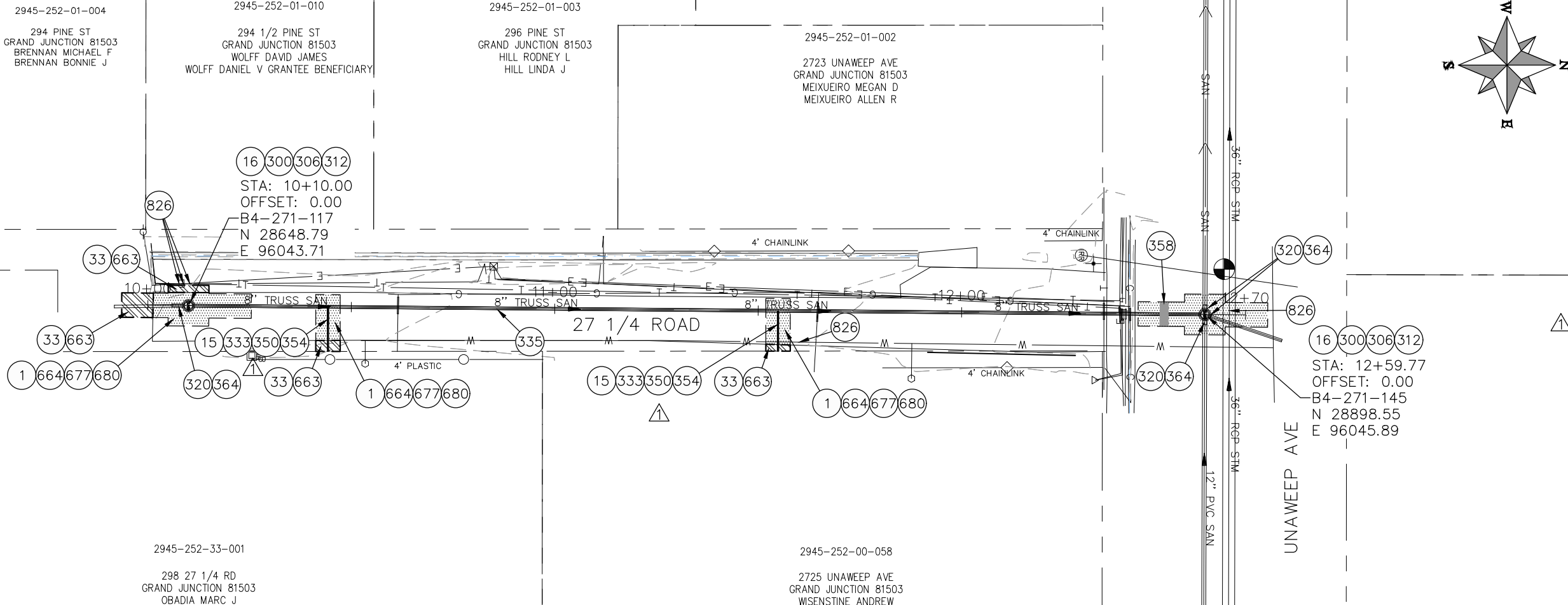
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



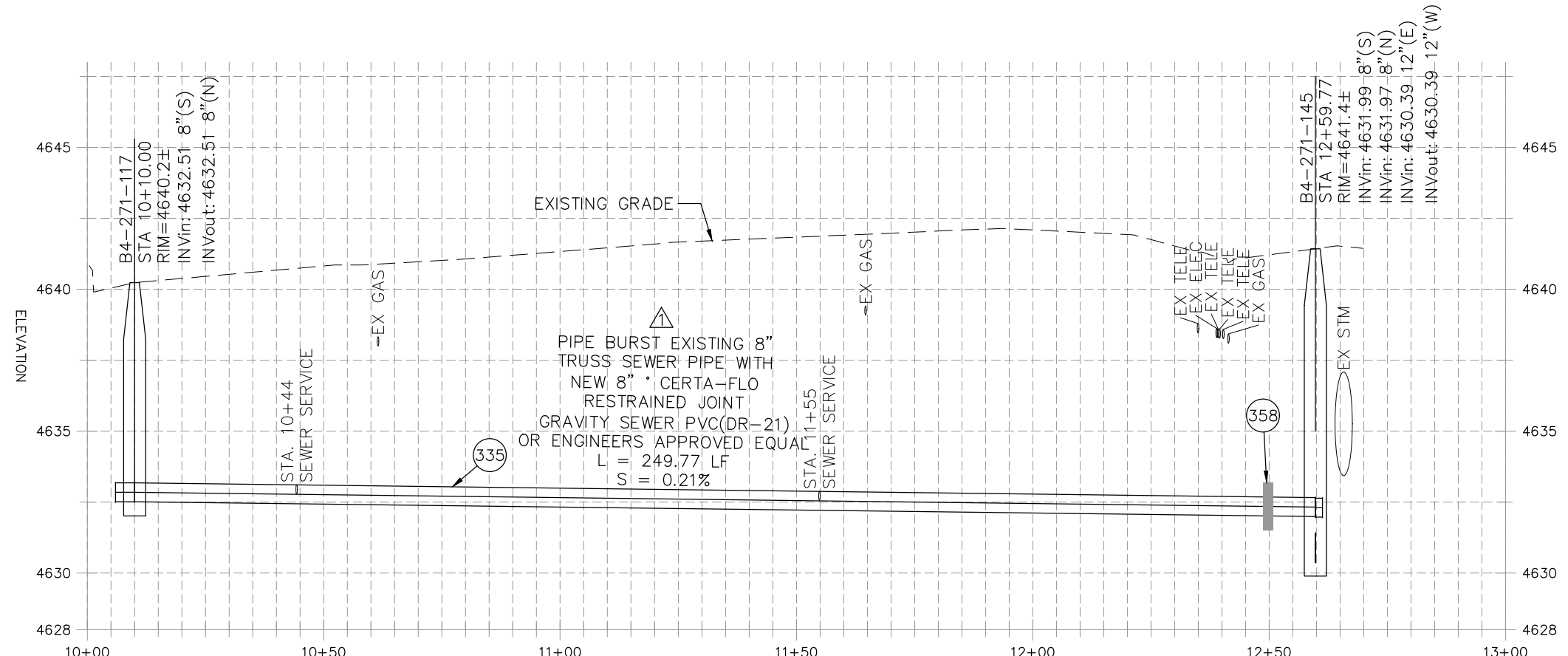
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\27 ROAD.dwg, 7/1/2021 7:22:14 AM, AutoCAD PDF (General Documentation).pc3



- 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)
  - ⑮ 202 - REMOVAL OF MANHOLE
  - ⑮ 202 - REMOVE EXISTING SURFACE MATERIAL
  - ③③ 102.11/108.5 - 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).
  - ③③ 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
  - ③③ 102.11/108.5 - 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) (100 MIL MINIMUM THICKNESS)
  - ③③ 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - ③③ 102.9/108.2 - 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.
  - ③③ 102.9/108.2 - 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)
  - ③③ 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - ③③ 104.20 - 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).
  - ③③ 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - ③③ CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
  - ③③ 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - ③③ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
  - ③③ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
  - ③③ 401.08 - 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)
  - ③③ PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
△	UPDATES TO PLAN AND PROFILES	06/2021	----	04/2021
XXX		202X	DJM	4/2021
XXX		202X	DJM	2021
XXX		202X	EM	2021
XXX		202X	KH	2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 30'	0 7.5 15 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



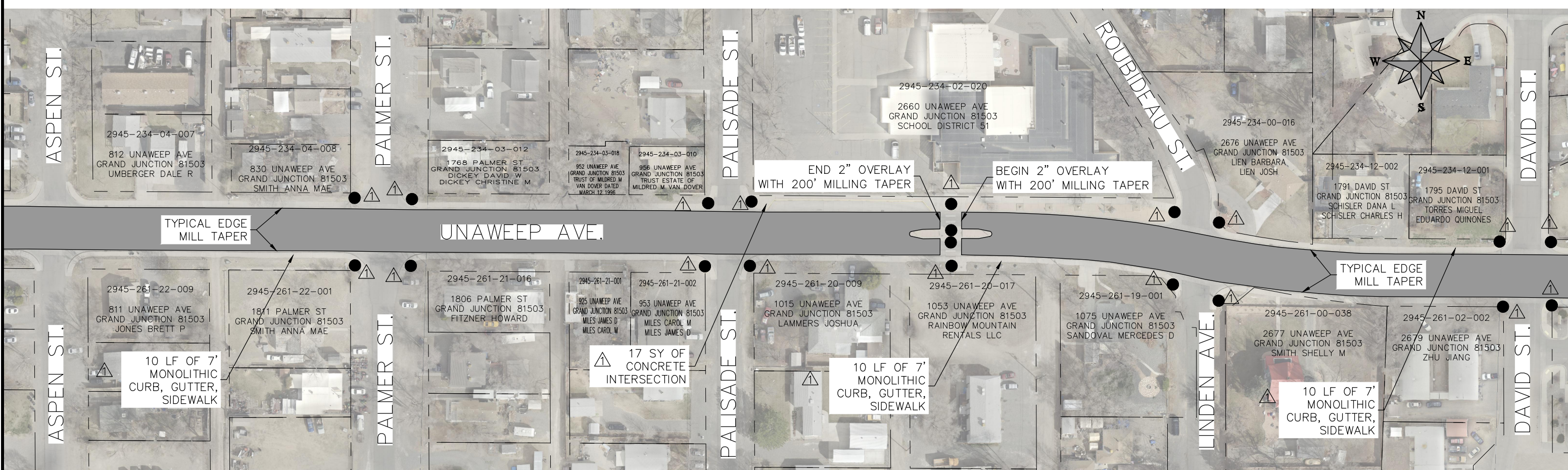
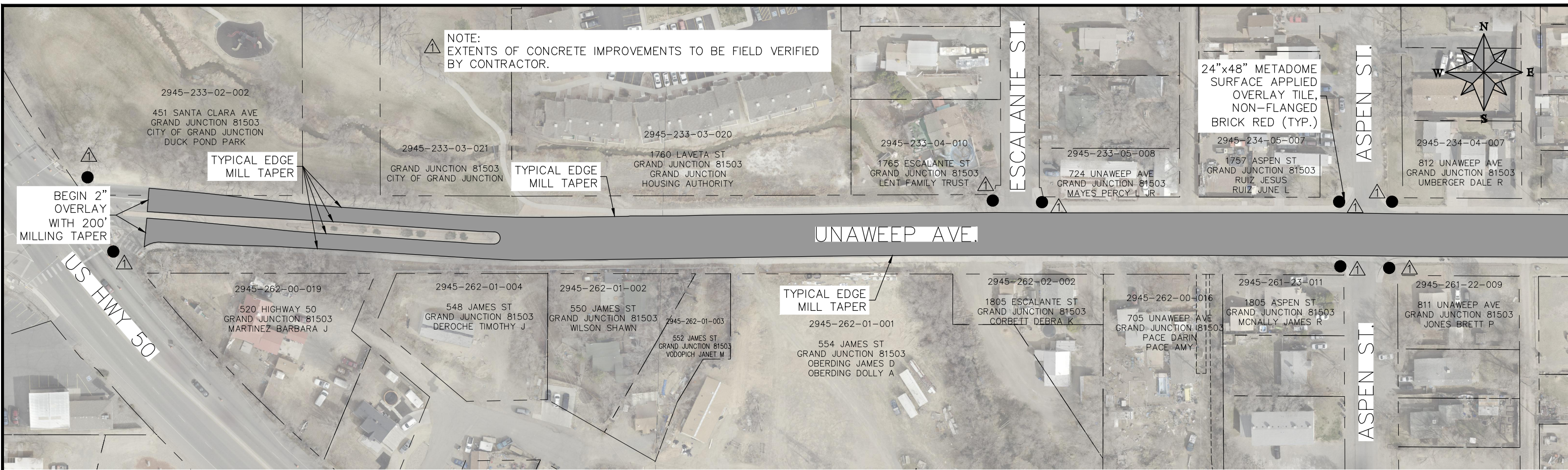
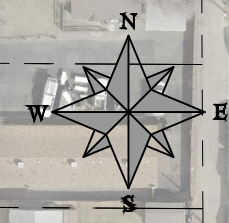
**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\27 14 ROAD.dwg, 7/1/2021 7:23:06 AM, AutoCAD PDF (General Documentation).pc3

NOTE:  
EXTENTS OF CONCRETE IMPROVEMENTS TO BE FIELD VERIFIED  
BY CONTRACTOR.

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



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION $\Delta$ UPDATES TO DRAWINGS		06/2021	----	05/2021
REVISION $\Delta$ XXX		202X	DJM	05/2021
REVISION $\Delta$ XXX		202X	DJM	05/2021
REVISION $\Delta$ XXX		202X	EM	2021
REVISION $\Delta$ XXX		202X	KH	2021

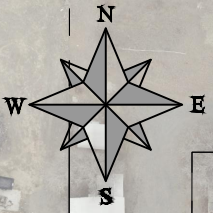
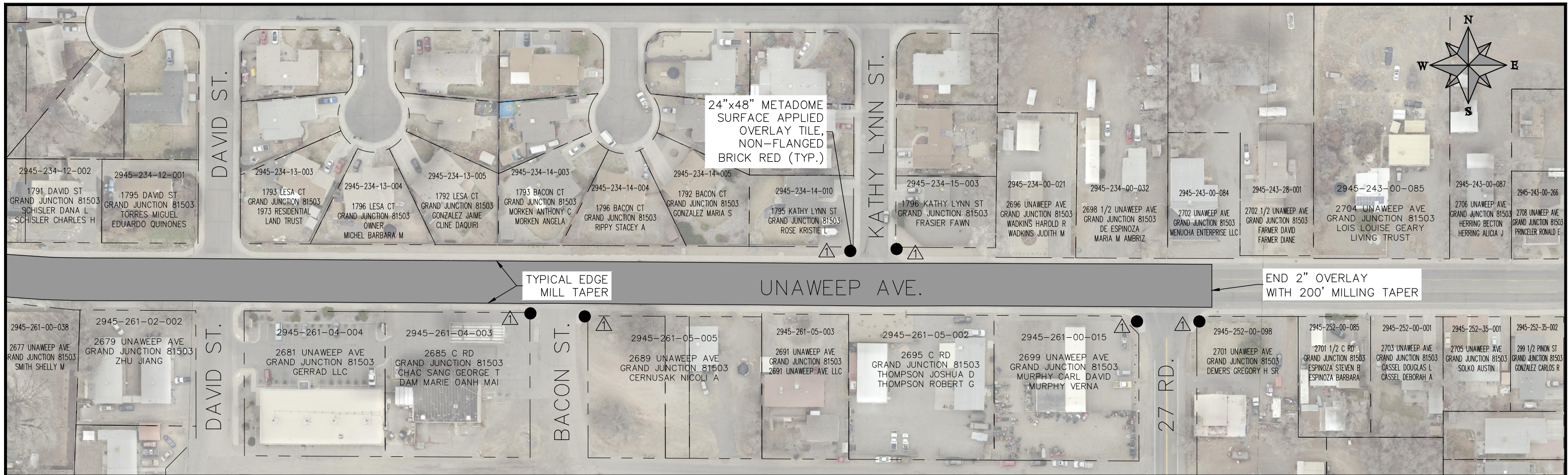
SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 100'
VERTICAL: 1" = 10'



**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Overlay\_Sheets.dwg, 7/1/2021 7:23:22 AM, AutoCAD PDF (General Documentation).pc3



TYPICAL EDGE  
MILL TAPER

UNAWEEP AVE.

END 2" OVERLAY  
WITH 200' MILLING TAPER

NOTE:  
EXTENTS OF CONCRETE IMPROVEMENTS TO BE FIELD VERIFIED  
BY CONTRACTOR.

REVISION	DESCRIPTION	DATE	PROJECT NO. -----
REVISION $\Delta$ XXX	UPDATES TO DRAWING	06/2021	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

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 100'	0 25 50 100
VERTICAL: 1" =	



PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT – PHASE A  
UNAWEEP AVE. OVERLAY

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Overlay Sheets.dwg, 7/1/2021 7:23:35 AM, AutoCAD PDF (General Documentation).pc3



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

UNAWEEP AVE.

SANTA CLARA AVE.

ESCALANTE ST.

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 $\Delta$ UPDATES TO DRAWING		06/2021	----	05/2021
REVISION $\Delta$ XXX		202X		05/2021
REVISION $\Delta$ XXX		202X		2021
REVISION $\Delta$ XXX		202X		2021

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



PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST. OVERLAY

N:\Landproj\2021 Sewer Replacements - Phase A - Unawweep Ave\60CAD\00DESIGN\REVISION 1\Overlay Sheets.dwg, 7/1/2021 7:23:45 AM, AutoCAD PDF (General Documentation).pc3





REVISION	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ UPDATES	TO DRAWING	06/2021	----
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	
REVISION Δ XXX		202X	

DRAWN BY	DJM	DATE	05/2021
DESIGNED BY	DJM	DATE	05/2021
CHECKED BY	EM	DATE	2021
APPROVED BY	KH	DATE	2021

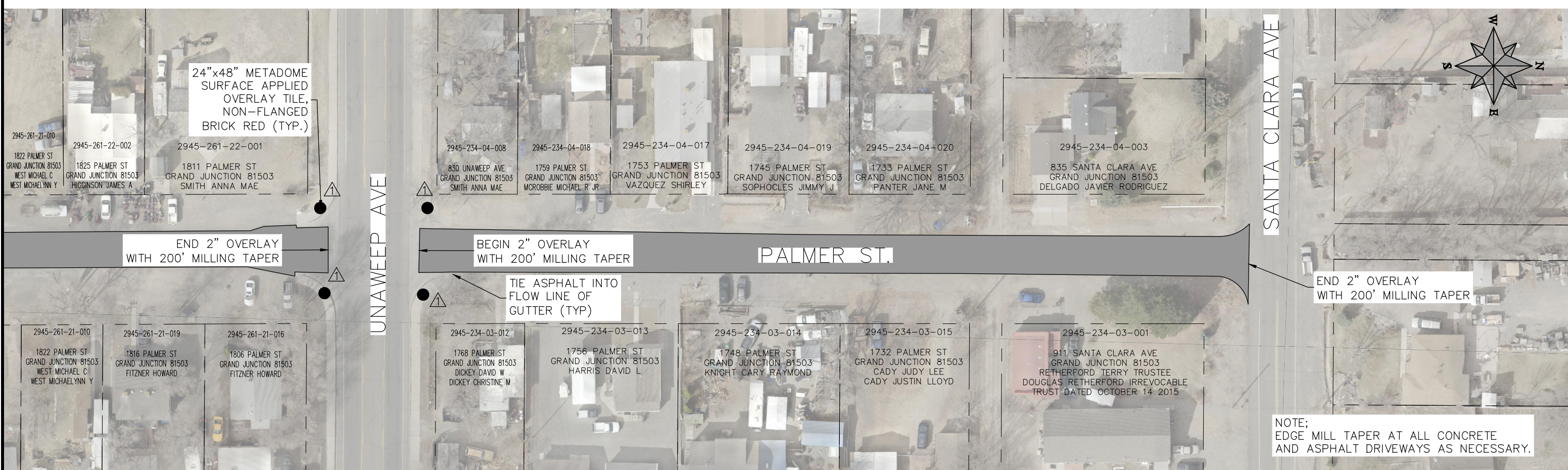
SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 60'
VERTICAL:	1" = 30'



**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\DESIGN\REVISION 1\Overlay Sheets.dwg, 7/1/2021 7:23:55 AM, AutoCAD PDF (General Documentation).pc3



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ UPDATES TO DRAWING		06/2021	----	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'

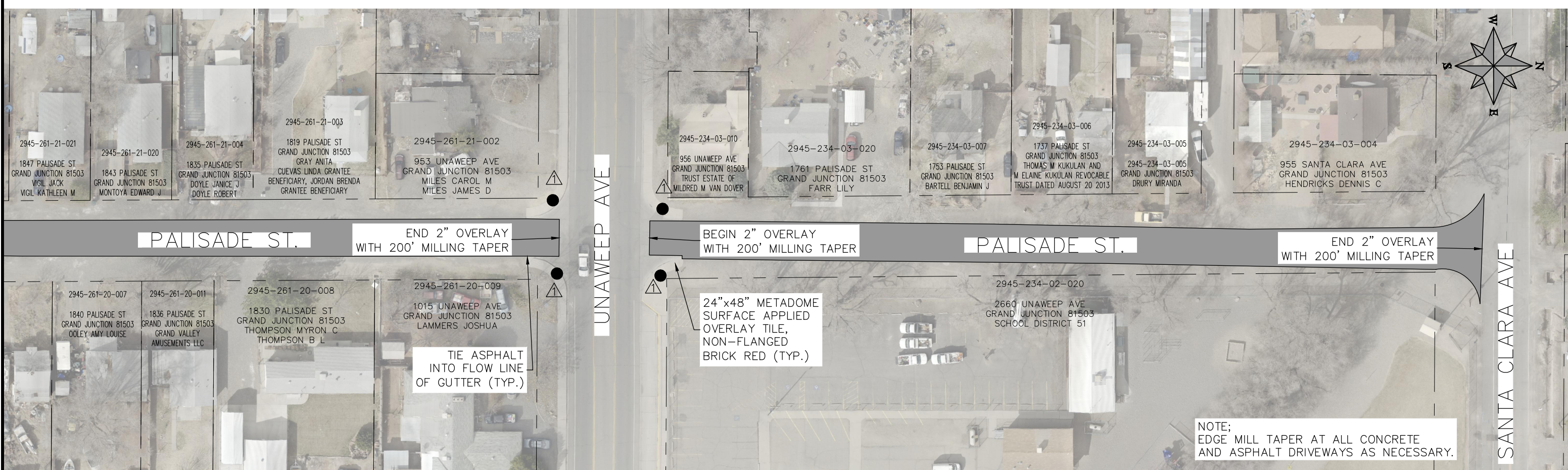
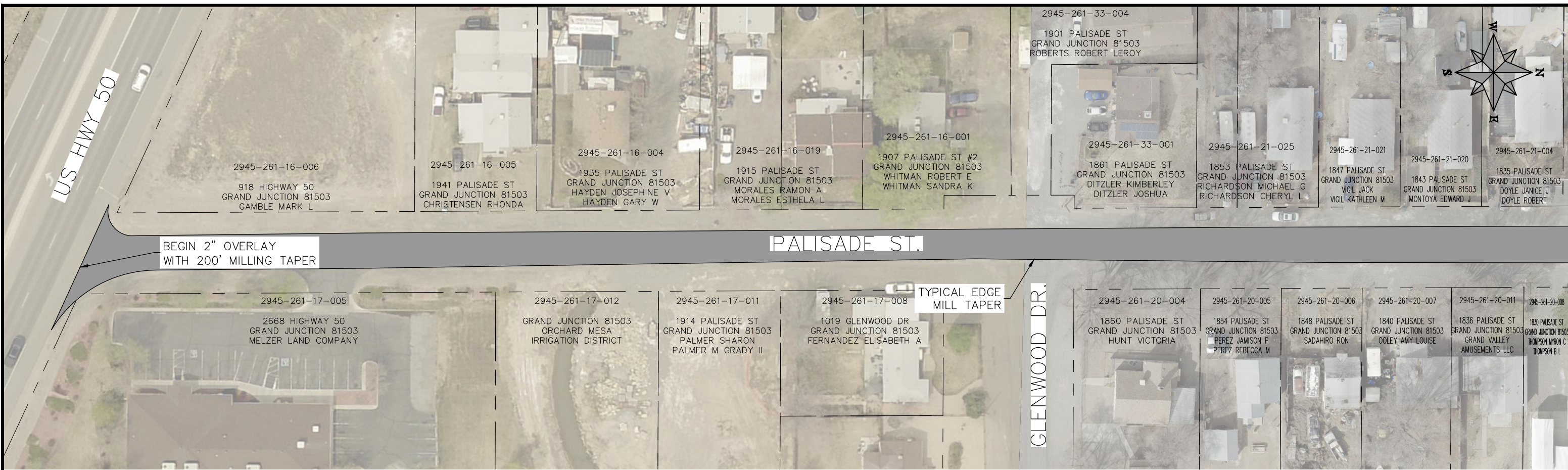


**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\DESIGN\REVISION 1\Overlay Sheets.dwg, 7/1/2021 7:24:05 AM, AutoCAD PDF (General Documentation).pc3

N:\Landproj\2021 Sewer Replacements - Phase A - Unawweep Ave\60CAD\DESIGN\REVISION 1\Overlay Sheets.dwg, 7/1/2021 7:24:15 AM, AutoCAD PDF (General Documentation).pc3



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ UPDATES TO DRAWING		06/2021	----	05/2021
REVISION Δ XXX		202X		05/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

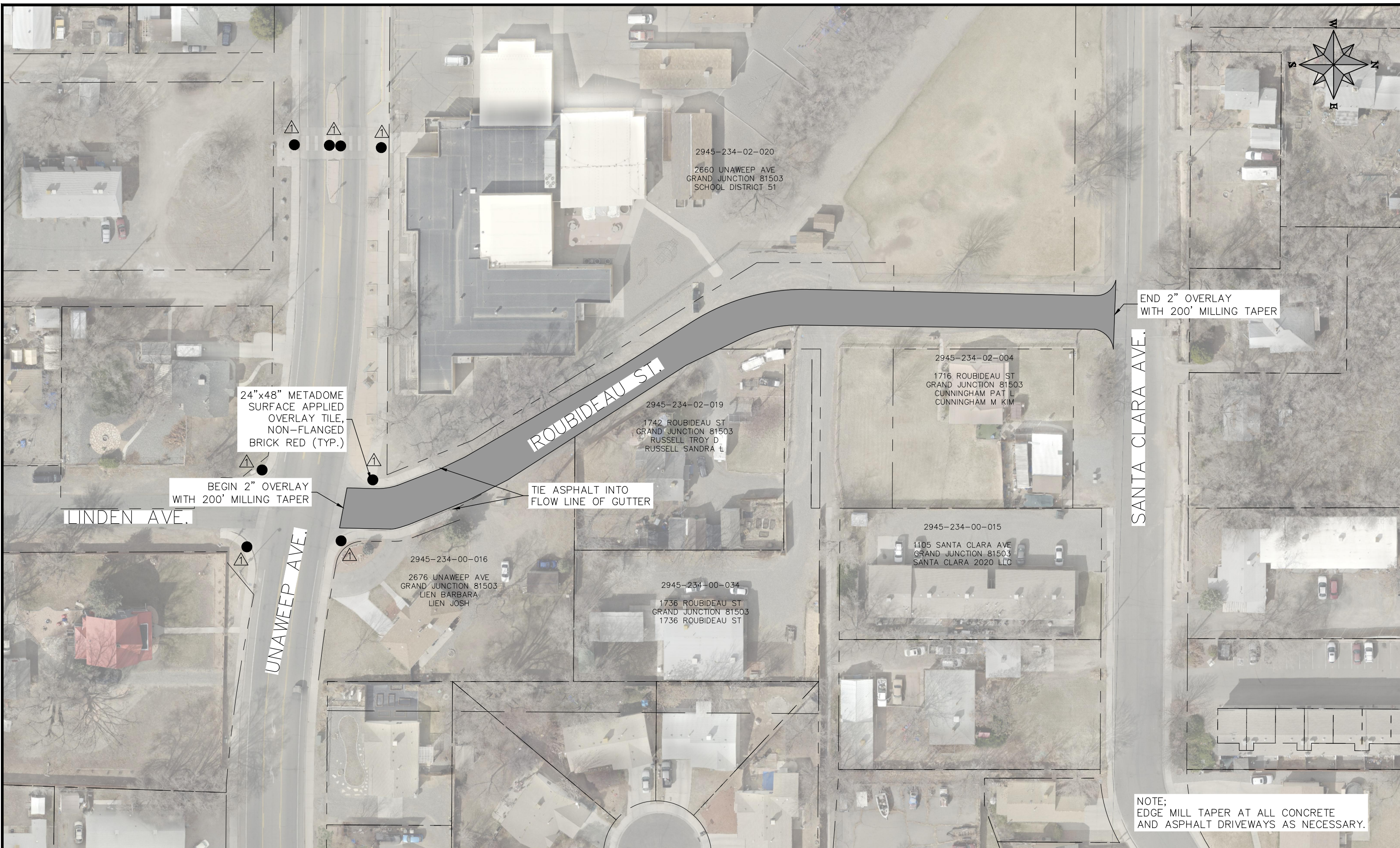
SCALES: PLAN & PROFILE	
HORIZONTAL:	1" = 60'
VERTICAL:	1" = 30'



**PUBLIC WORKS  
ENGINEERING DIVISION**

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

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



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

LINDEN AVE.

UNAWEEP AVE.

ROUBIDEAU ST.

SANTA CLARA AVE.

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

REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION $\Delta$ UPDATES TO DRAWING		06/2021	----	05/2021
REVISION $\Delta$ XXX		202X		05/2021
REVISION $\Delta$ XXX		202X		2021
REVISION $\Delta$ XXX		202X		2021

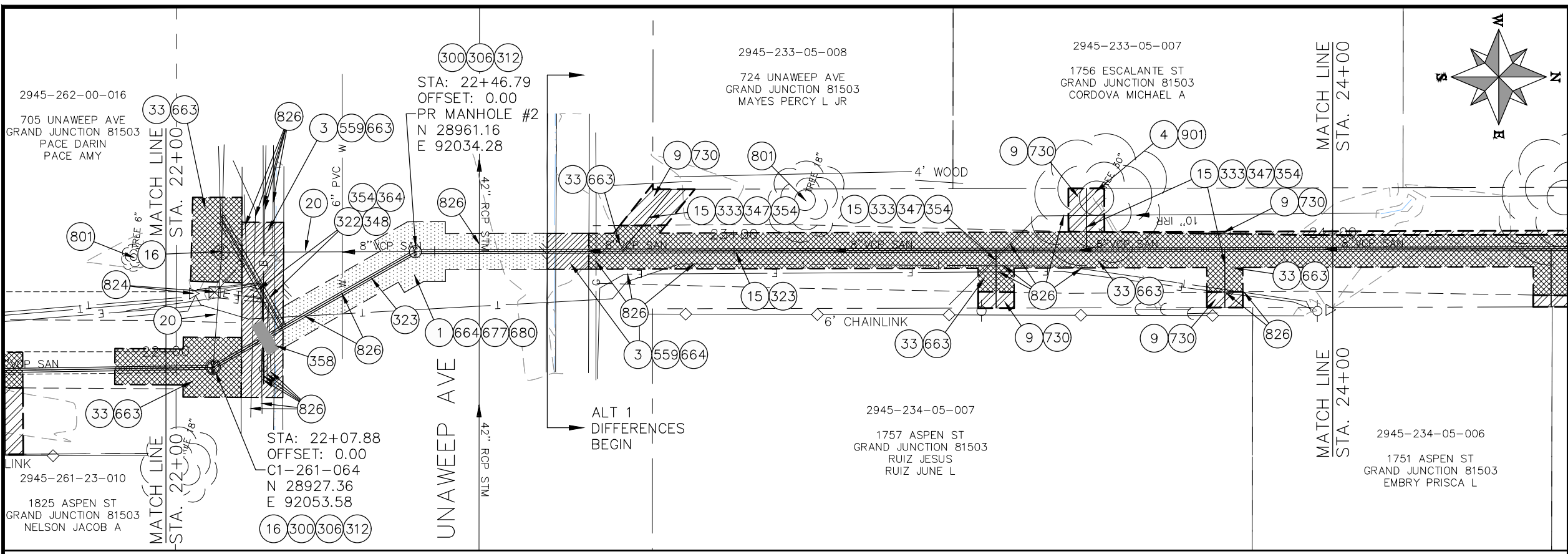
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 60'	0 15 30 60
VERTICAL: 1" =	



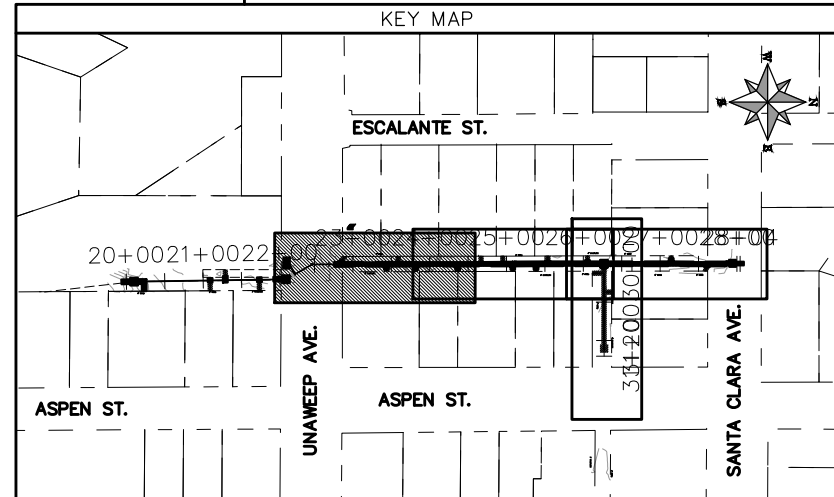
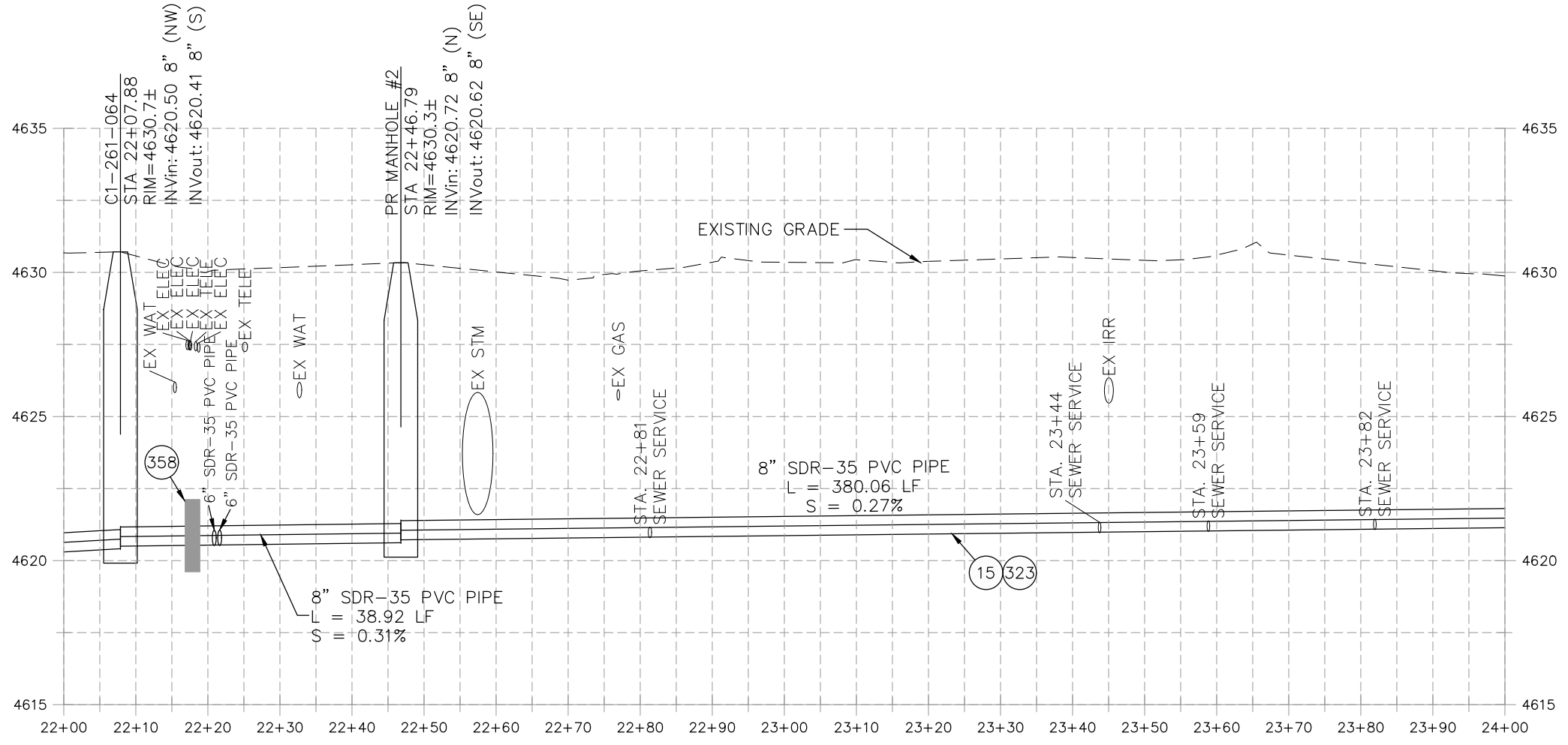
PUBLIC WORKS ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A ROUBIDEAU ST. OVERLAY

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Overlay\_Sheets.dwg, 7/1/2021 7:24:25 AM, AutoCAD PDF (General Documentation).pc3



- ### 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.
  - 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
  - 9 202 - REMOVAL OF SOD.
  - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
  - 16 202 - REMOVAL OF MANHOLE
  - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
  - 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) (100 MIL MINIMUM THICKNESS)
  - 322 102.9/108.2 - 6" 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.
  - 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 347102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
  - 348 102.9/108.3 - 8" x 6" 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
  - 824 PROTECT UTILITY PEDESTAL
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 901 REPLACE TREE



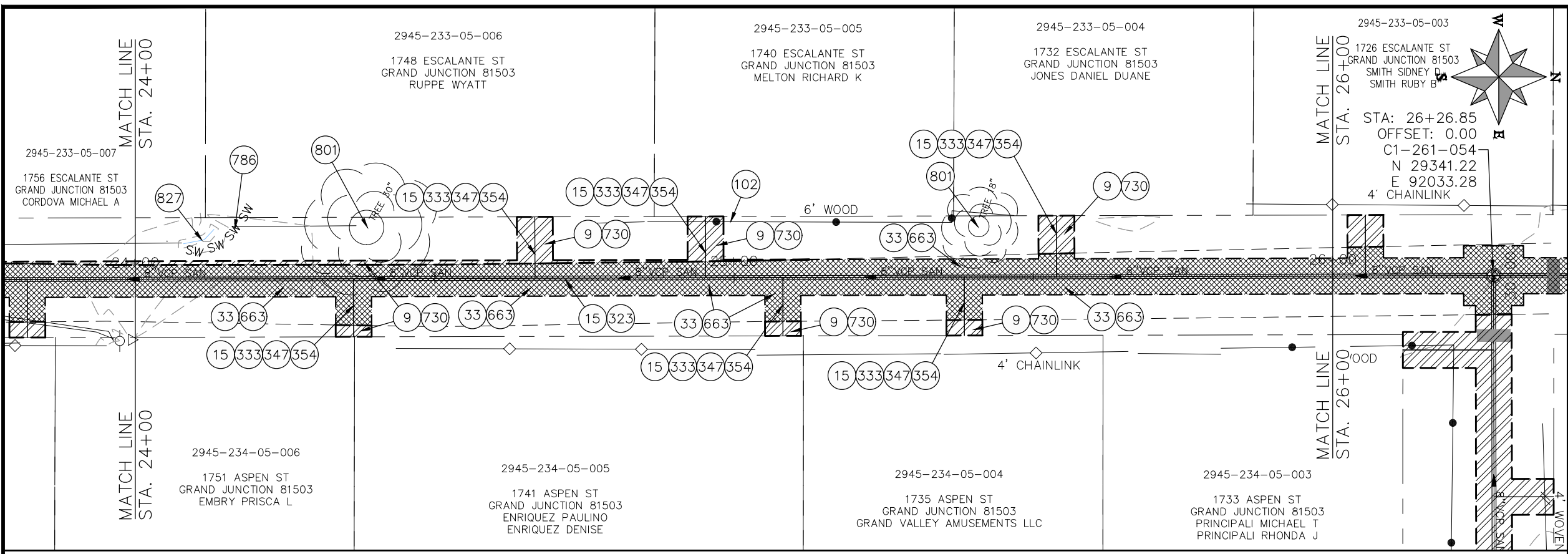
REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	-----	04/2021
REVISION Δ XXX		202X		4/2021
REVISION Δ XXX		202X		2021
REVISION Δ XXX		202X		2021

SCALE	DATE
HORIZONTAL: 1" = 20'	04/2021
VERTICAL: 1" = 5'	4/2021

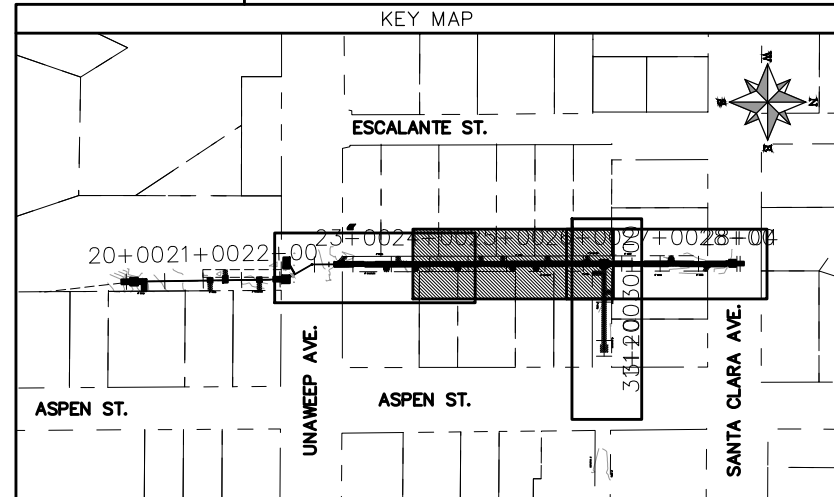
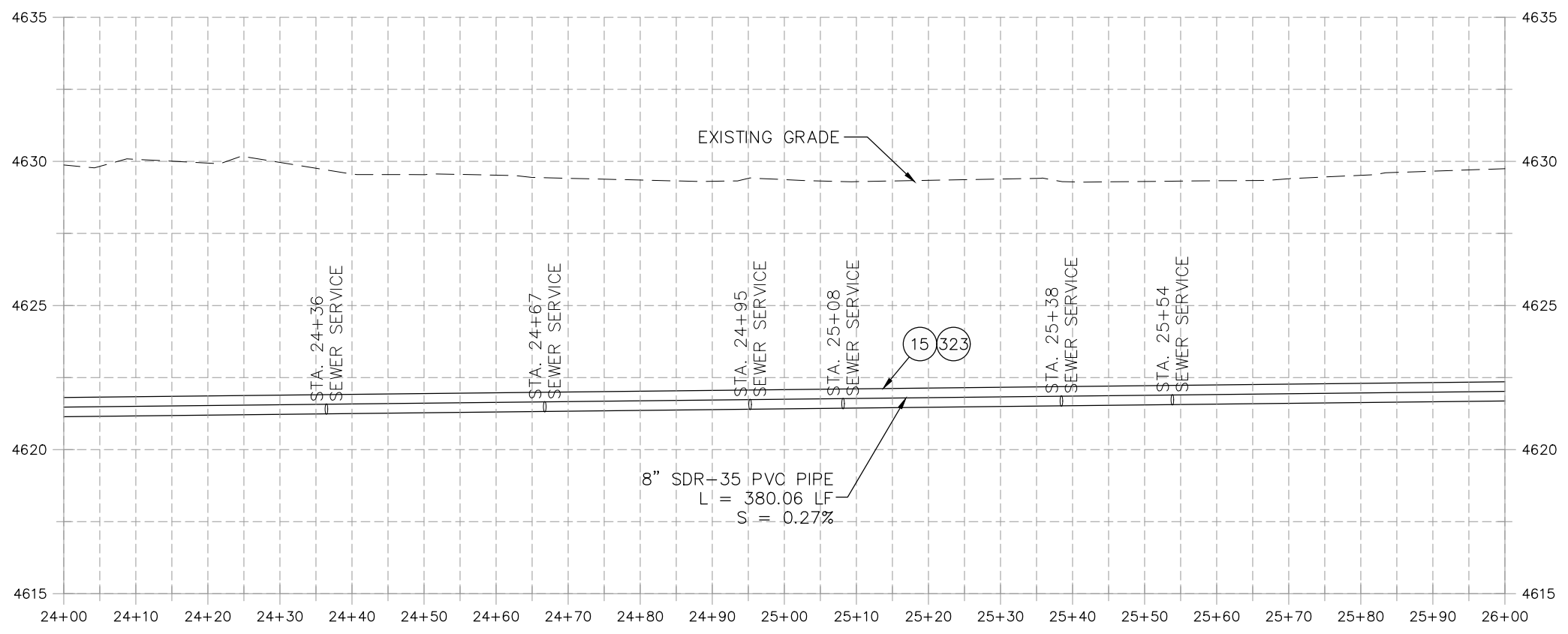


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
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.
  - (102) 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOWN ON PLAN)
  - (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) 347102.9/108.3 - 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



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

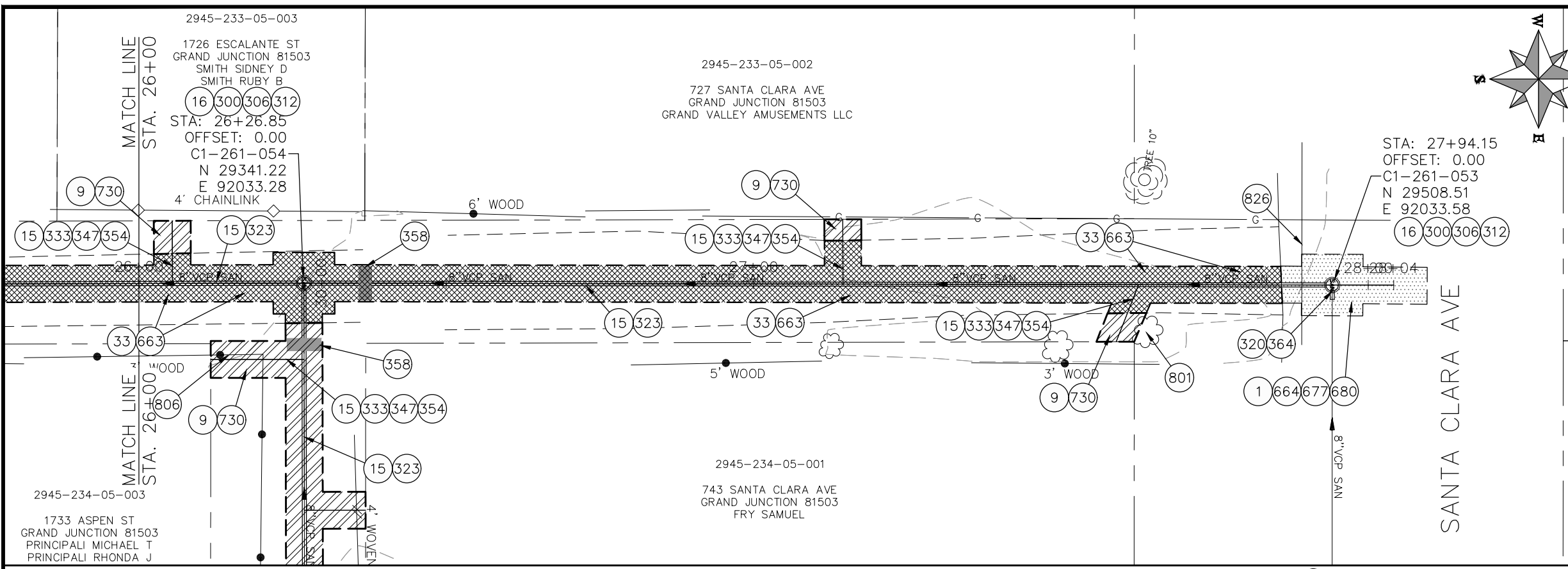
SCALE	DATE	DATE
DRAWN BY DJM	DATE 04/2021	
DESIGNED BY DJM	DATE 4/2021	
CHECKED BY EM	DATE 2021	
APPROVED BY KH	DATE 2021	



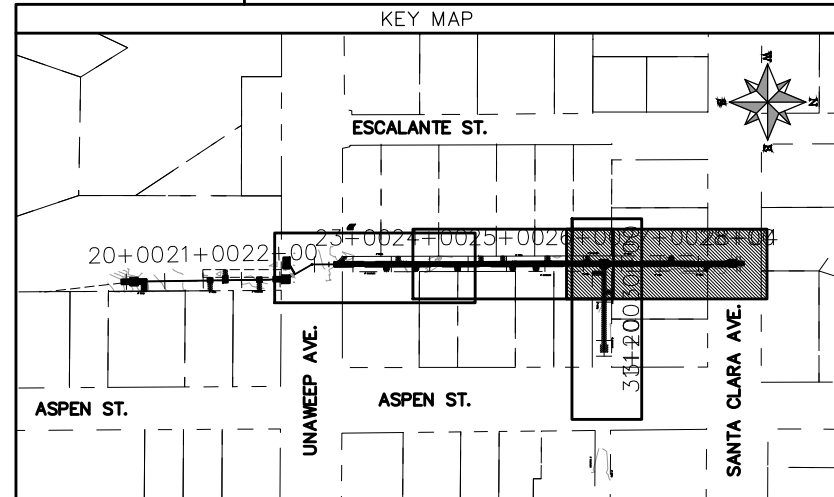
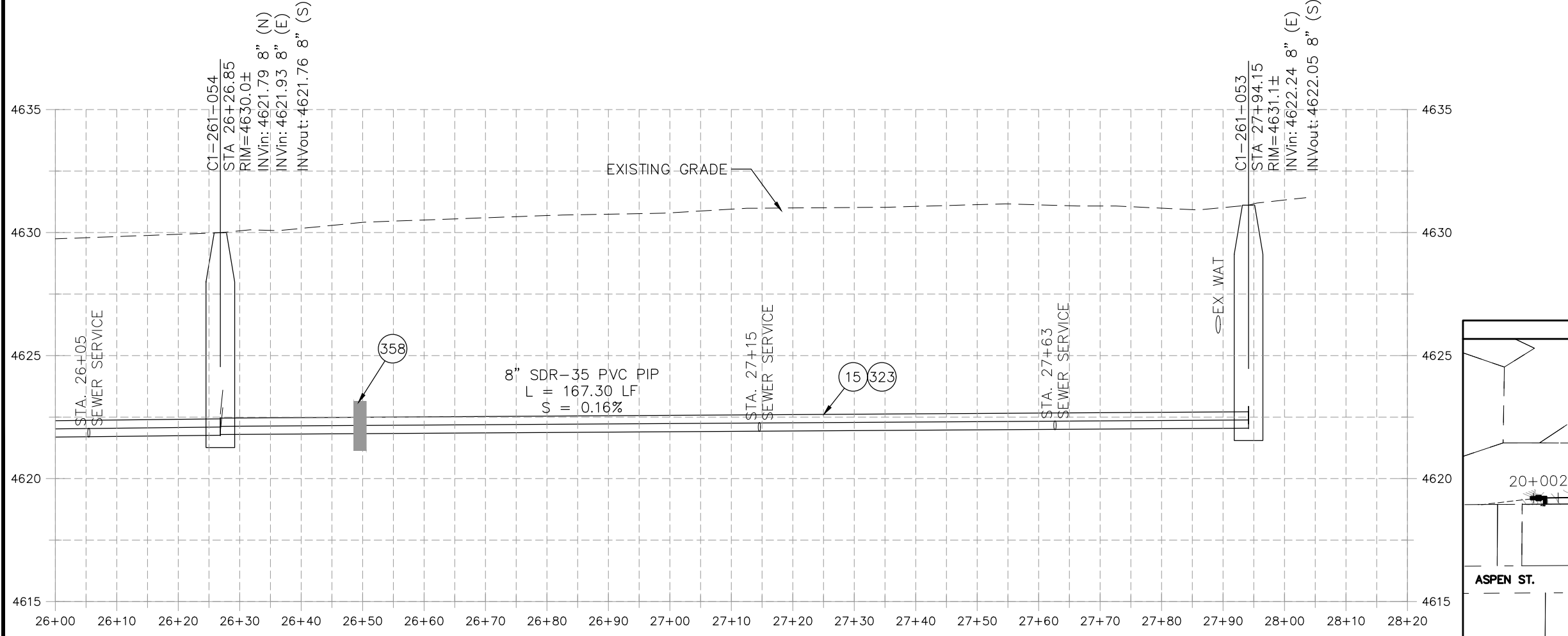
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 24+00 TO STA 26+00**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Escalante Alley ALT 1.dwg, 7/1/2021 7:26:04 AM, AutoCAD PDF (General Documentation).pc3



- 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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - 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 347102.9/108.3 - 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

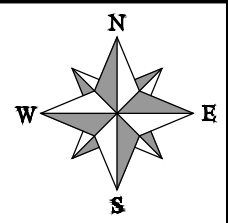
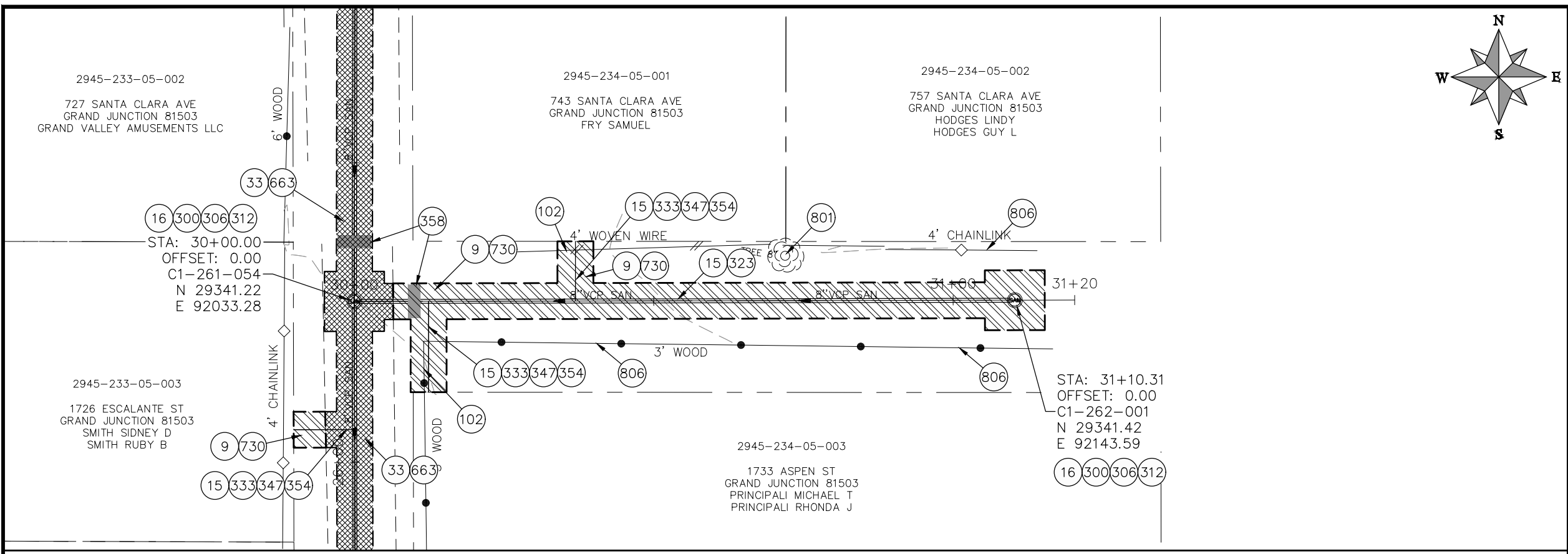
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



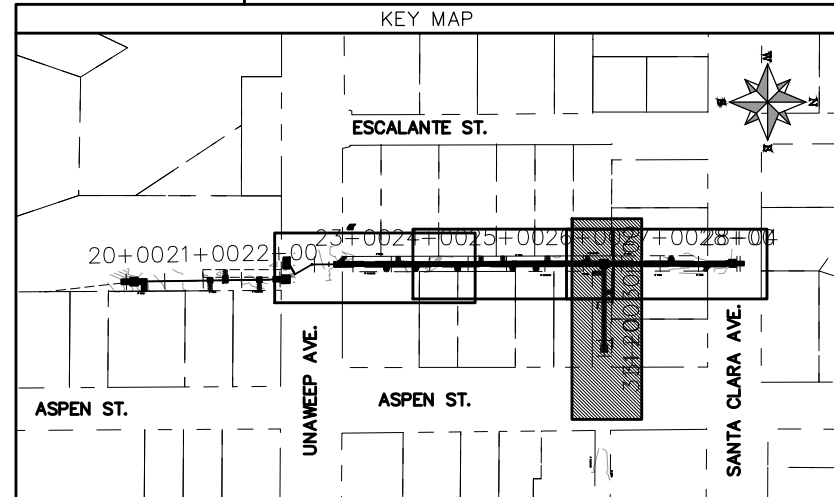
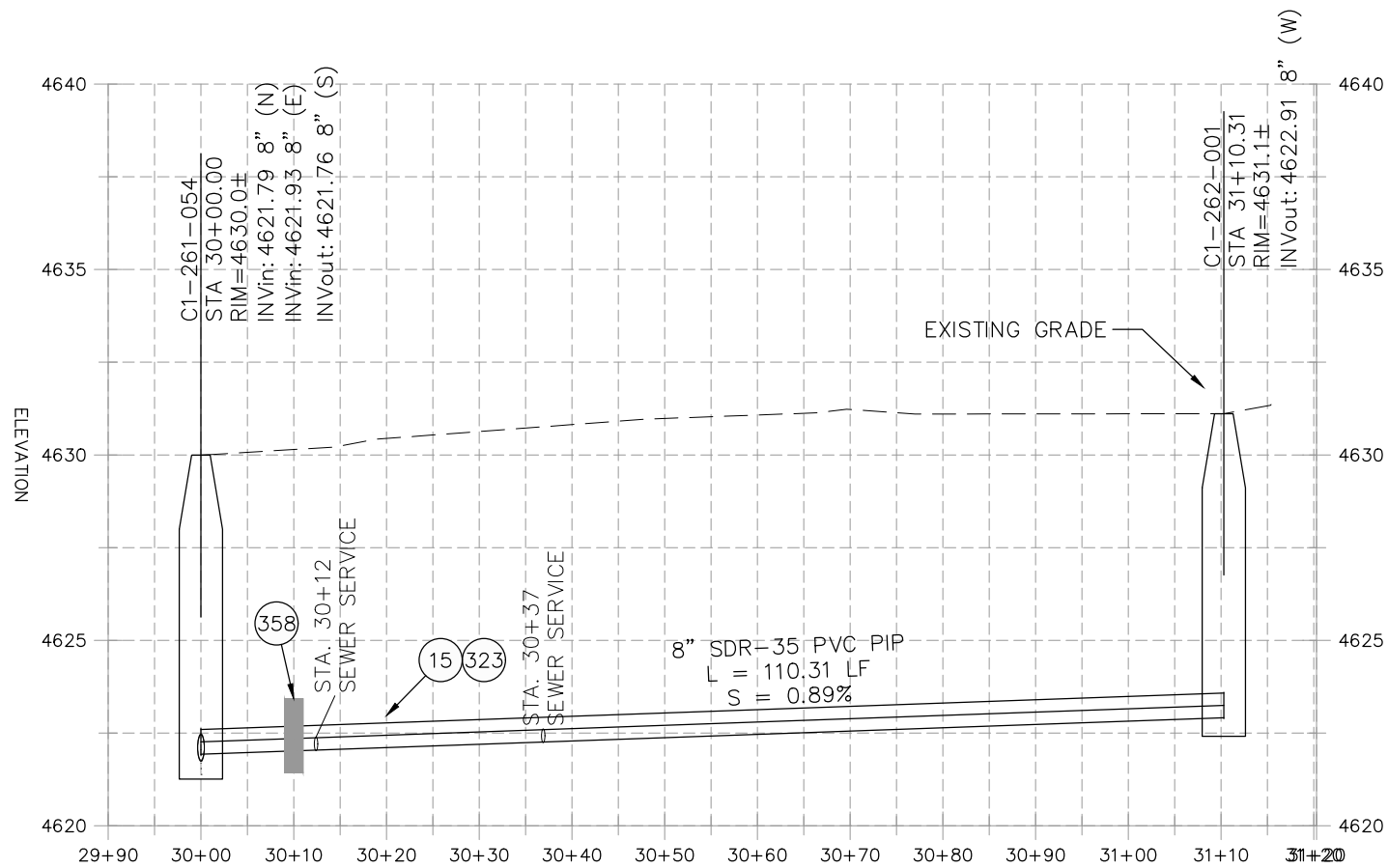
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 26+00 TO STA 28+17**

N:\Landproj\2021 Sewer Replacements - Phase A - Unaweep Ave\60\CAD\DESIGN\REVISION 1\Escalante Alley ALT 1.dwg, 7/1/2021 7:27:04 AM, AutoCAD PDF (General Documentation).pc3



- 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 EODUR 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) (100 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 NATIVE MATERIALS MEETING 103.16 EARTH 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)
  - 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	----	04/2021
REVISION B XXX	202X	4/2021	----	4/2021
REVISION C XXX	202X	2021	----	2021
REVISION D XXX	202X	2021	----	2021

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

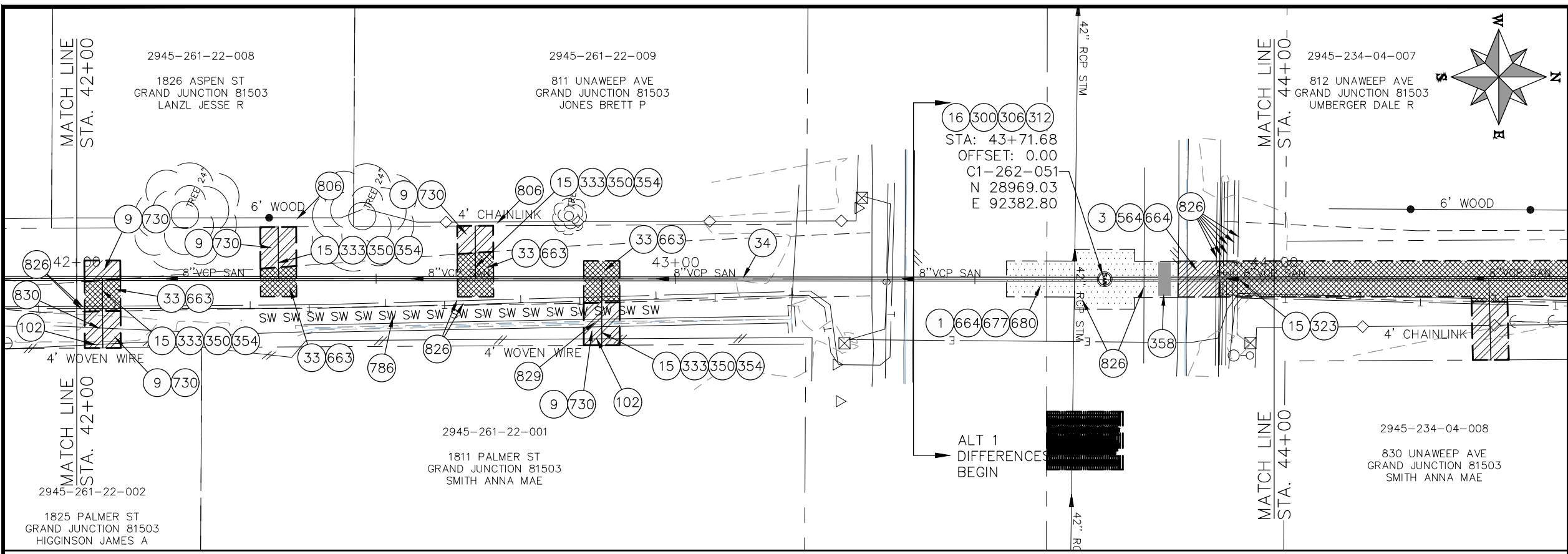


**PUBLIC WORKS  
ENGINEERING DIVISION**

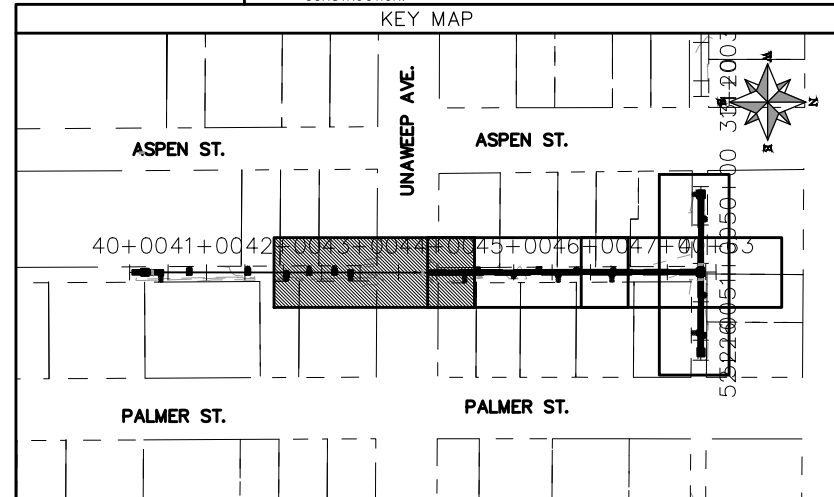
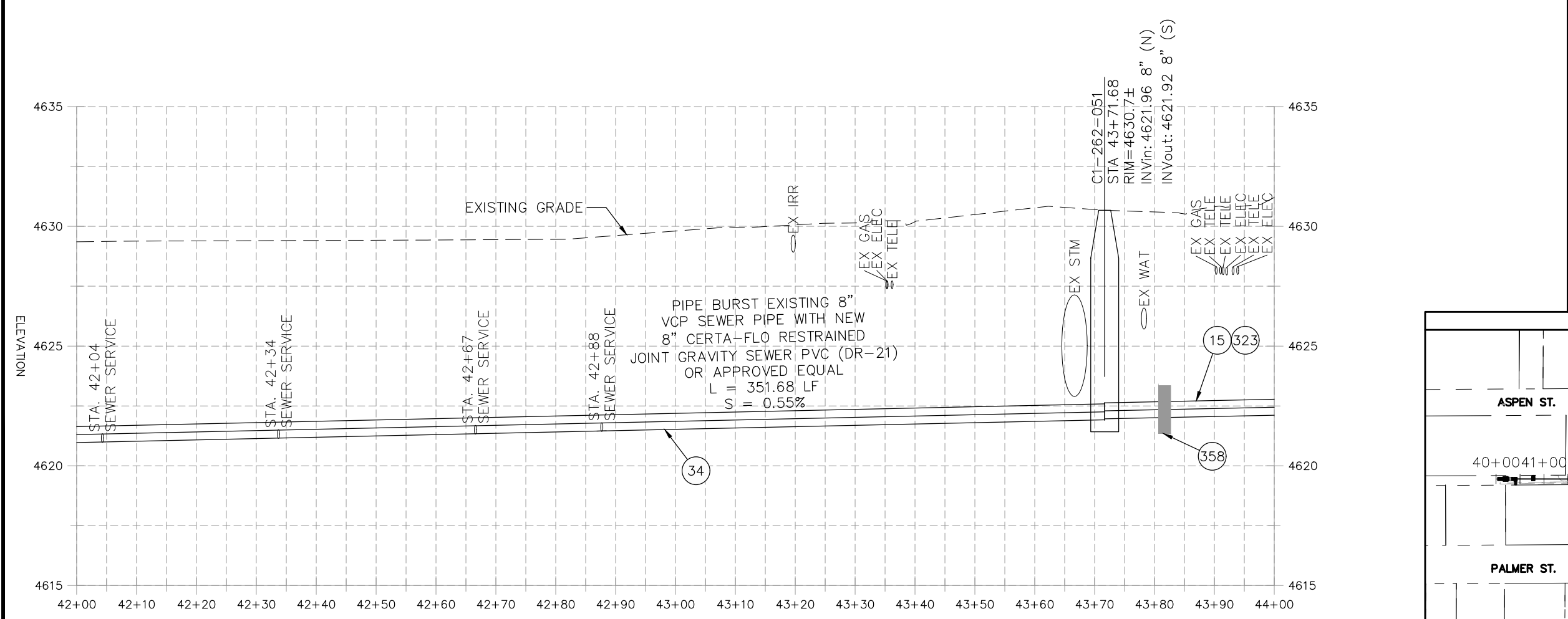
**2021 SEWER LINE REPLACEMENT - PHASE A  
ESCALANTE ST ALLEY PLAN AND PROFILE - ALT 1  
STA 30+00 TO STA 31+20**

N:\Landproj\2021 Sewer Replacements - Phase A - Unaweep Ave\60CAD\00DESIGN\REVISION 1\Escalante Alley ALT 1.dwg, 7/1/2021 7:28:04 AM, AutoCAD PDF (General Documentation).pc3





- ### 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
  - 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>S') (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) (100 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.
  - 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.
  - 350 8"x4" SEWER SERVICE TAP, TAPPING SADDLE (TO BE USED ON THE CERTA-FLO PVC PIPE) (INCLUDES SADDLE, BEDDING MATERIAL, CLEAN-OUT AND ALL FITTINGS REQUIRED TO ALIGN AND CONNECT THE SEWER SERVICE PIPE TO THE SEWER TAP) (CONTRACTOR MUST PROPERLY SUPPORT THE TAPPING SADDLE WITH CRUSHED PIPE BEDDING MATERIAL TO AVOID SADDLE ROTATION DURING BACKFILLING AND COMPACTION).
  - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 564 608.06 - MONOLITHIC DRIVE OVER 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)
  - 786 EROSION CONTROL LOG
  - 806 PROTECT FENCE
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 829 PROTECT IRRIGATION CULVERT. COST IS INCIDENTAL TO COST OF CONSTRUCTION.



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

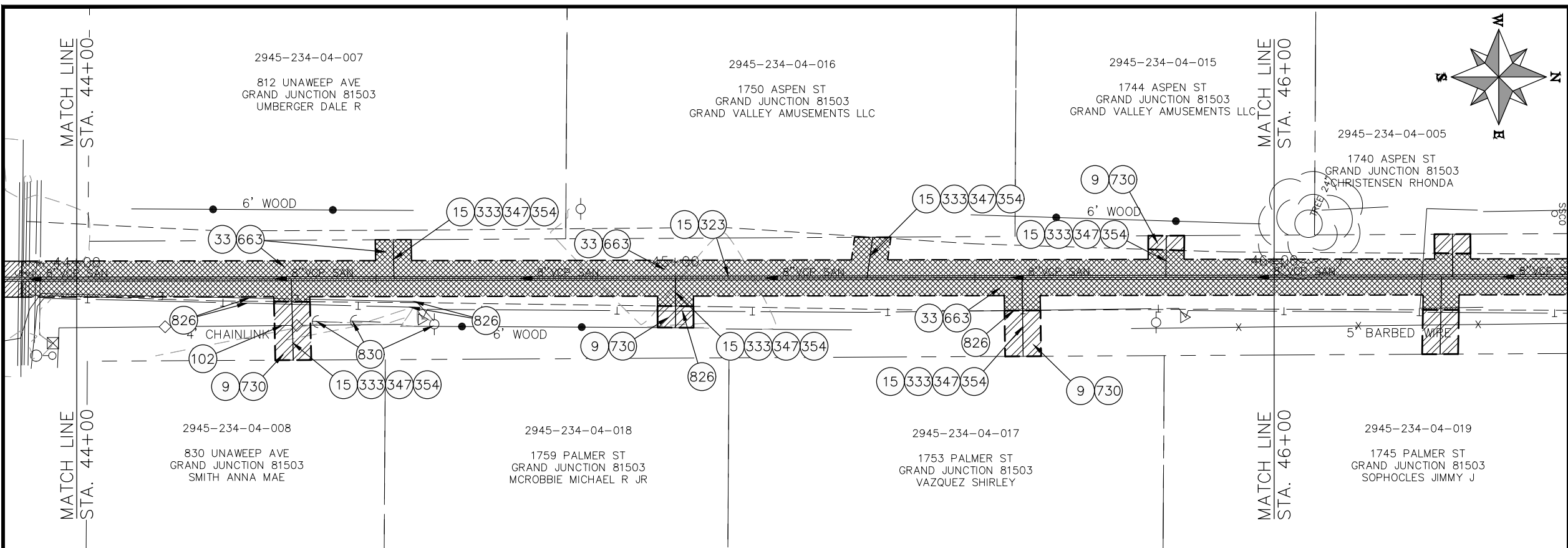
SCALE	DATE	BY
HORIZONTAL: 1" = 20'	04/2021	DJM
VERTICAL: 1" = 5'	4/2021	DJM
	2021	EM
	2021	KH



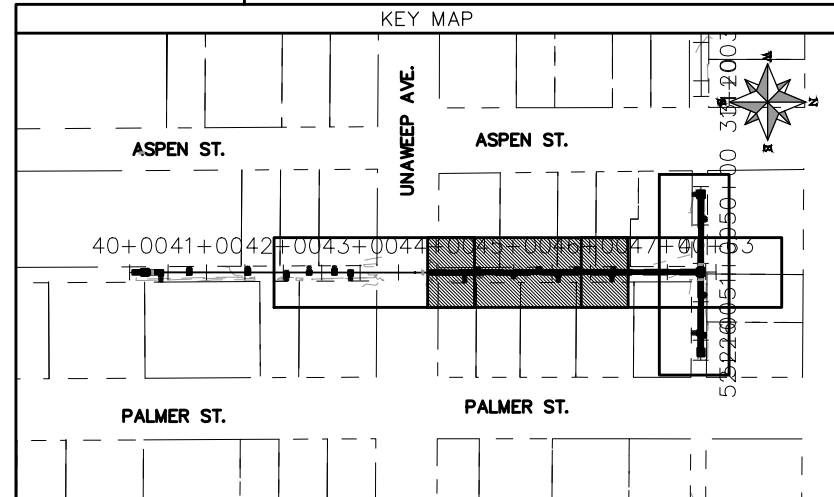
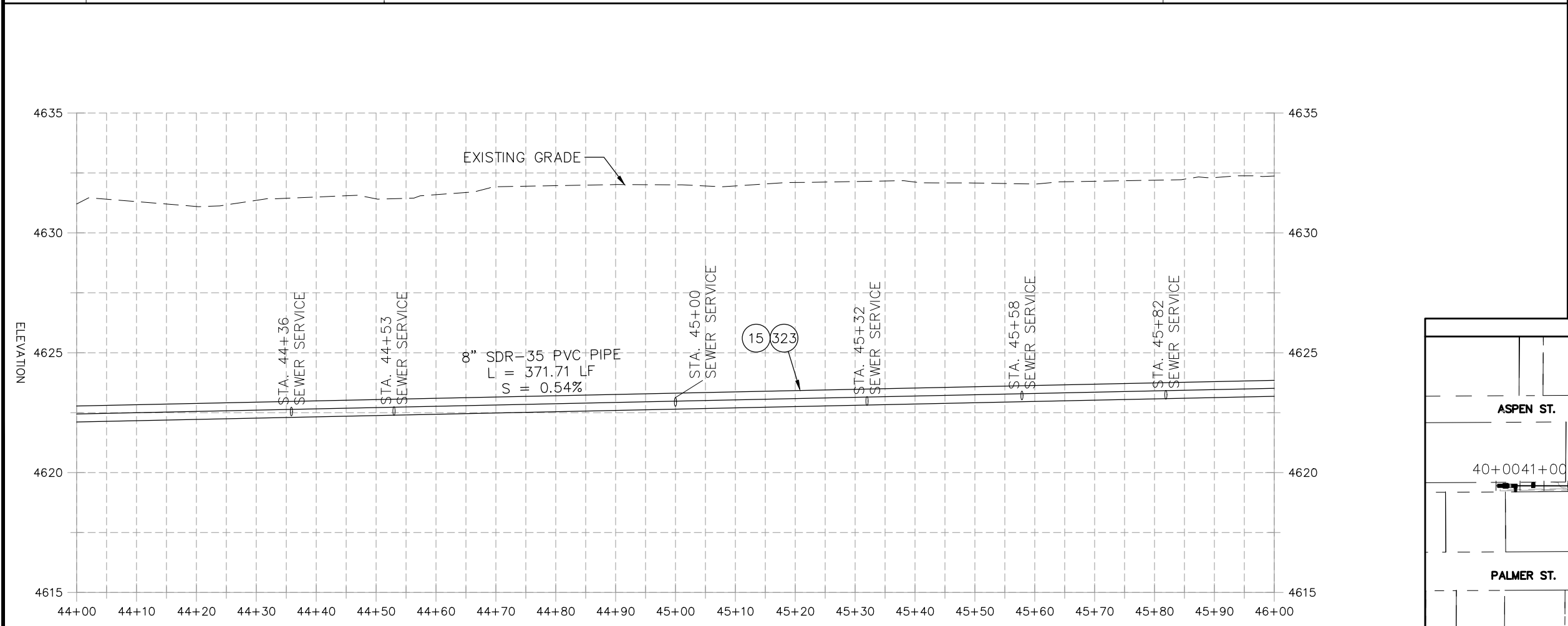
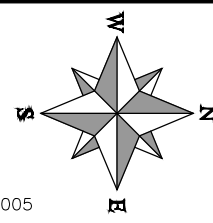
PUBLIC WORKS  
ENGINEERING DIVISION

2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
STA 42+00 TO STA 44+00

N:\landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley ALT 1.dwg, 7/1/2021 7:29:16 AM, AutoCAD PDF (General Documentation).pc3



- 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)
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 102 210 - RESET FENCE (HEIGHT AND MATERIAL SHOWN ON PLAN)
  - 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-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
  - 830 PROTECT GUY WIRE AND POWER POLE



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

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

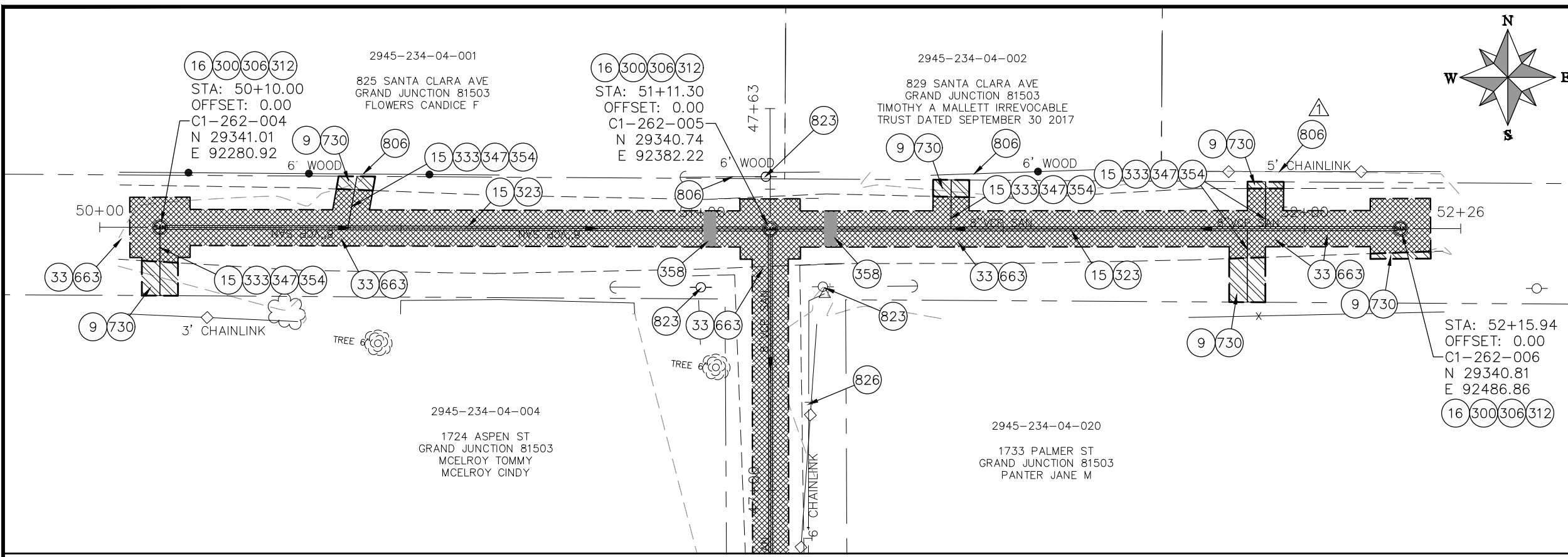


**PUBLIC WORKS  
ENGINEERING DIVISION**

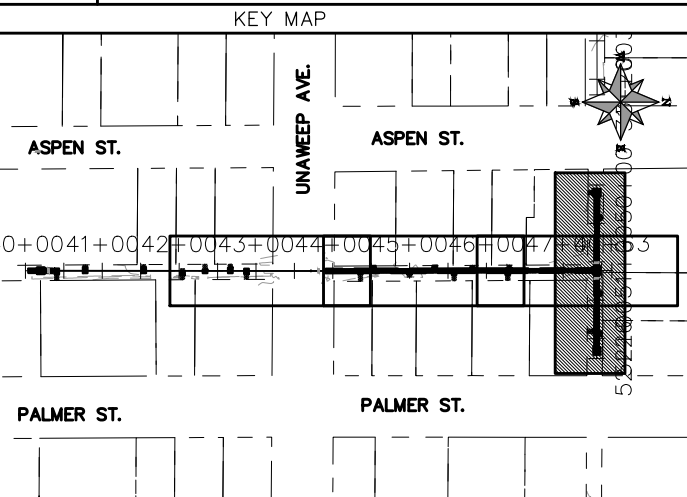
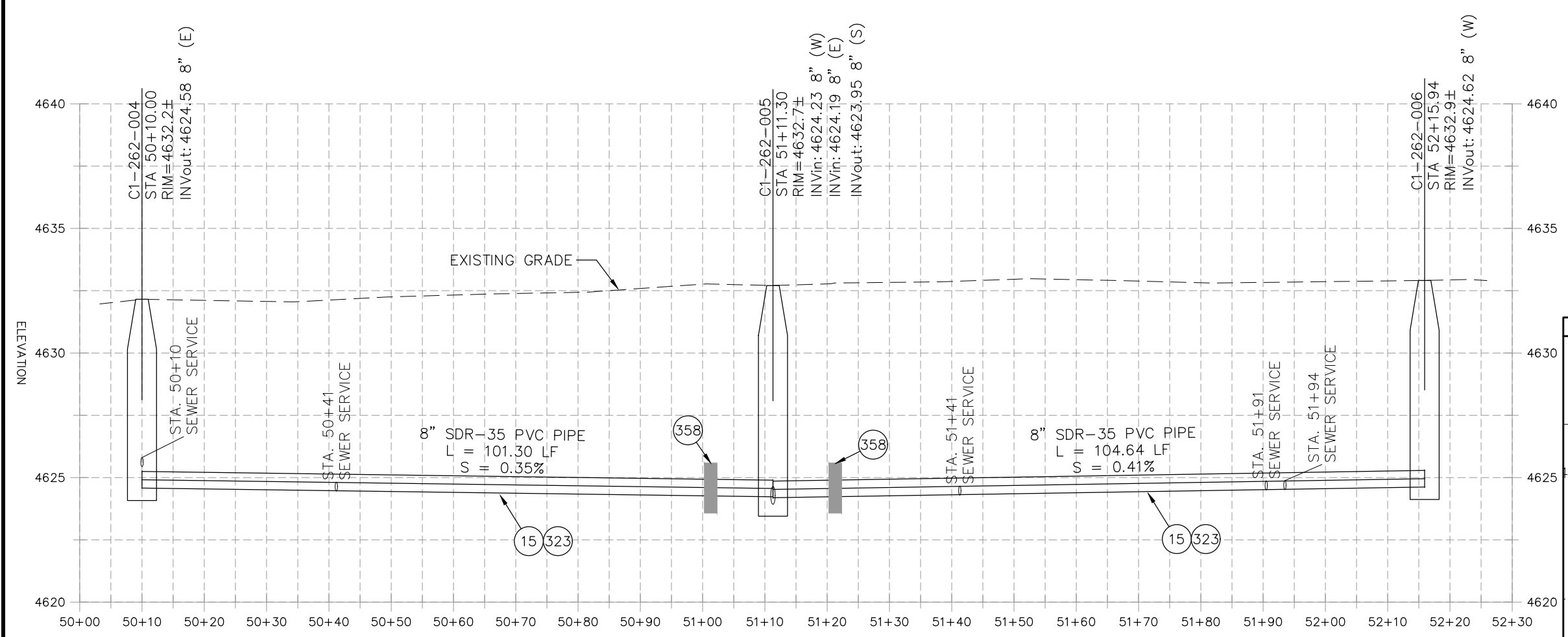
**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
STA 44+00 TO STA 46+00**

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley ALT 1.dwg, 7/1/2021 7:29:54 AM, AutoCAD PDF (General Documentation).pc3





- 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
  - (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) (100 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 NATIVE MATERIALS MEETING 103.16 EARTH 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-06). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-06).
  - (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



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

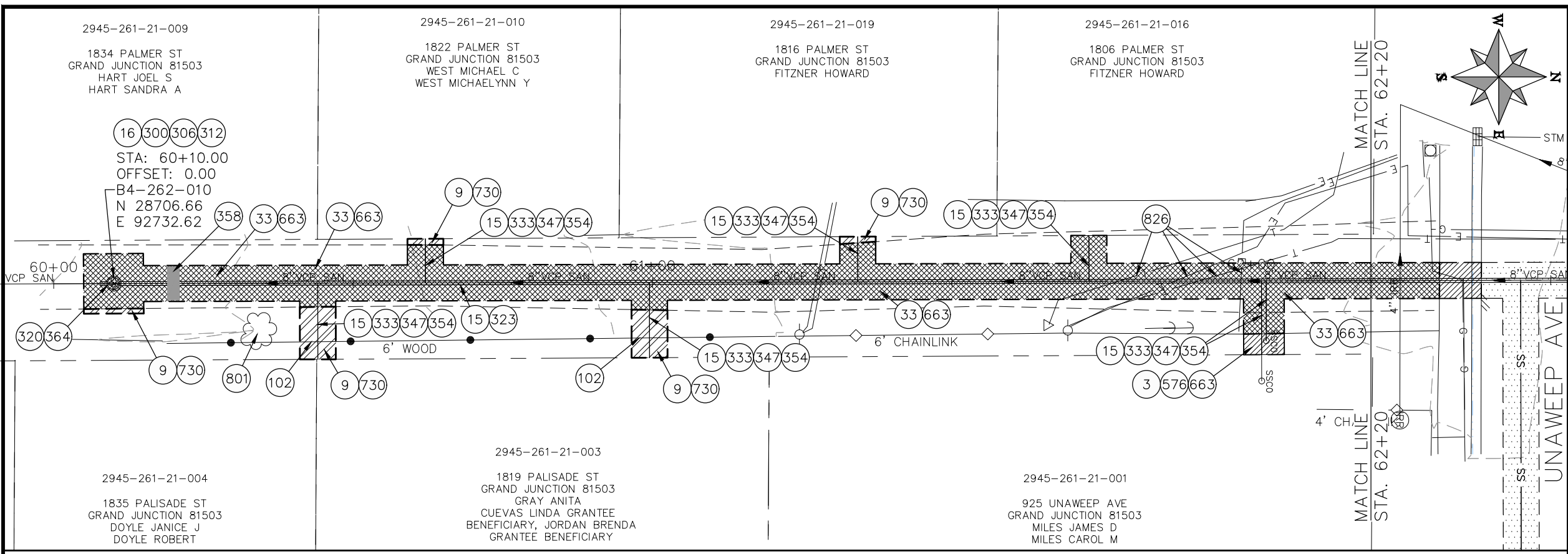
SCALE	DATE	BY
HORIZONTAL: 1" = 20'	04/2021	DJM
VERTICAL: 1" = 5'	4/2021	DJM
	2021	EM
	2021	KH



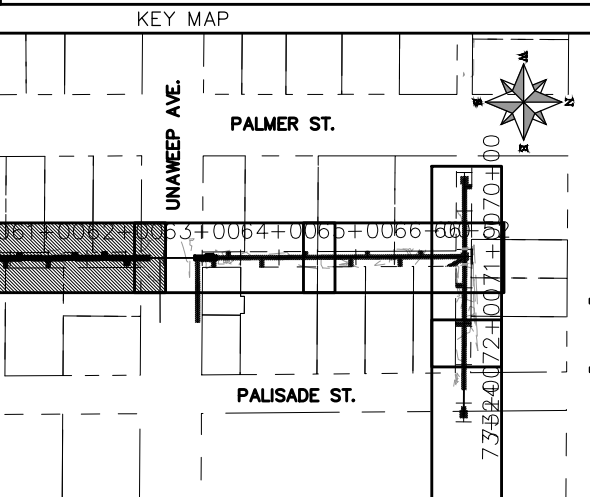
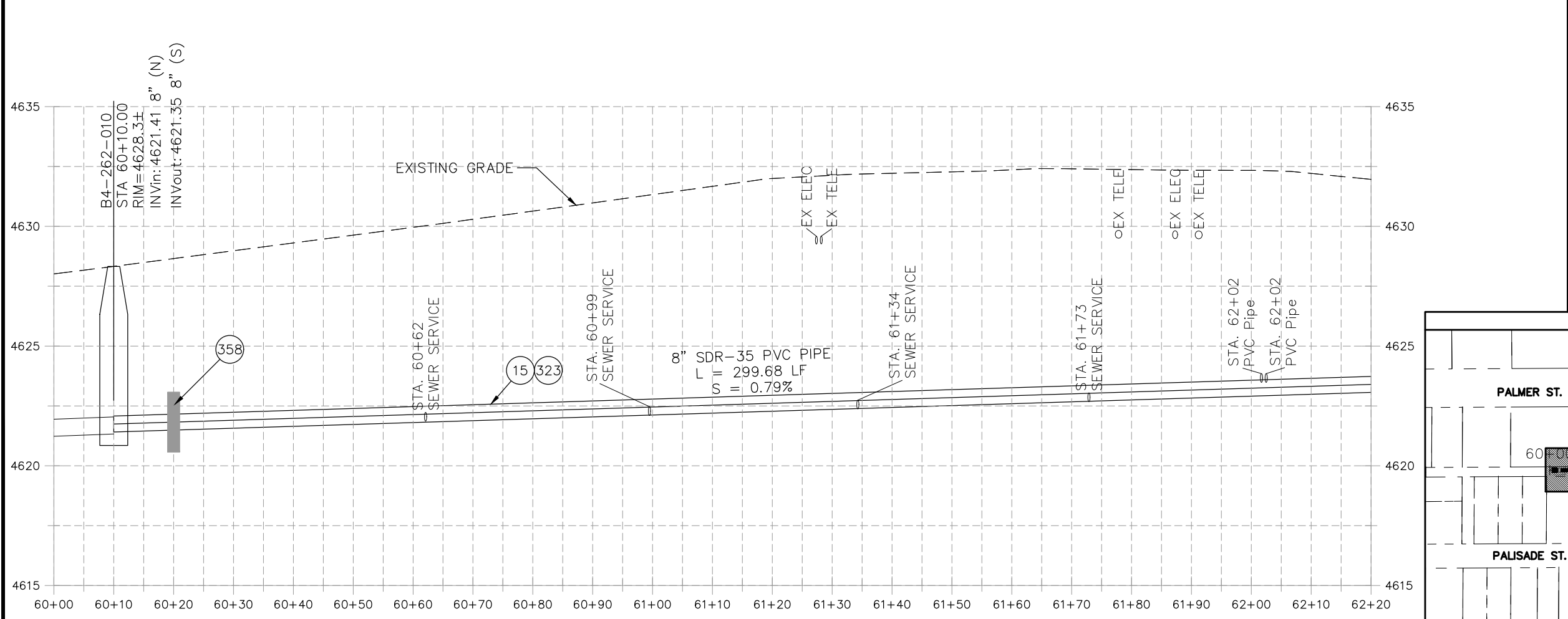
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
ASPEN ST ALLEY PLAN AND PROFILE - ALT 1  
STA 50+00 TO STA 52+30**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Aspen Alley ALT 1.dwg, 7/1/2021 7:31:14 AM, AutoCAD PDF (General Documentation).pc3



- ### 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
  - (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 (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) (100 MIL MINIMUM THICKNESS)
  - (320) 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - (523) 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.
  - (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.



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

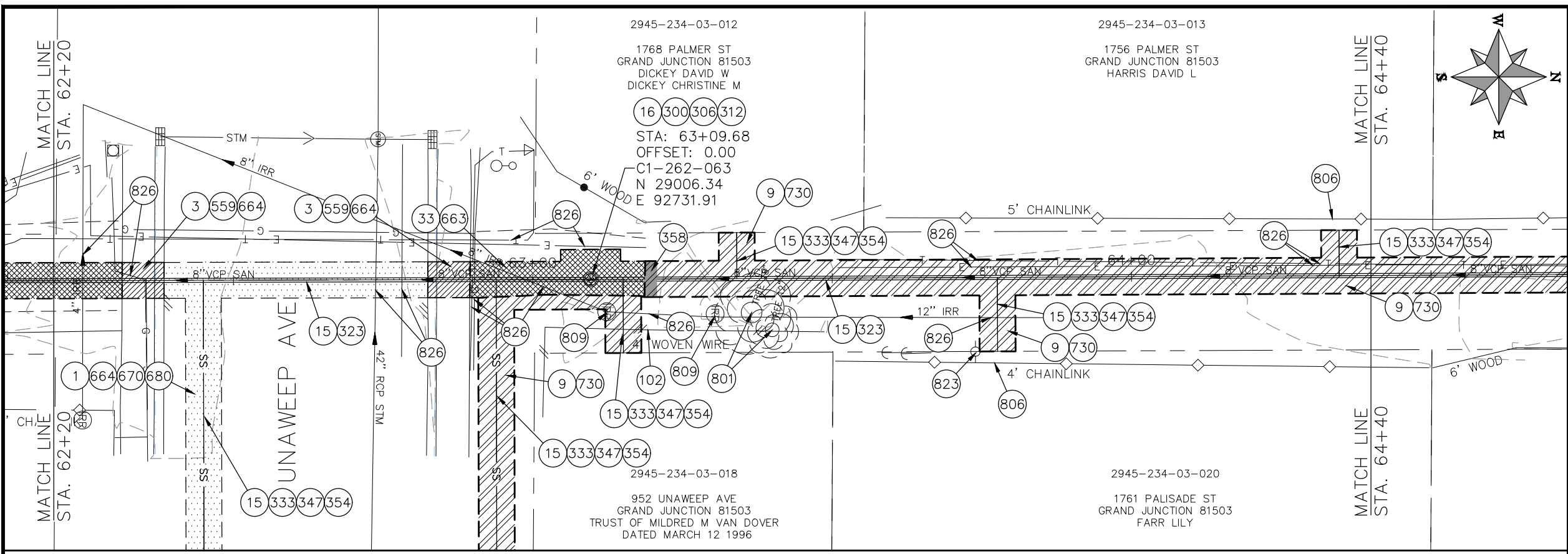
SCALE	DATE
HORIZONTAL: 1" = 20'	04/2021
VERTICAL: 1" = 5'	4/2021



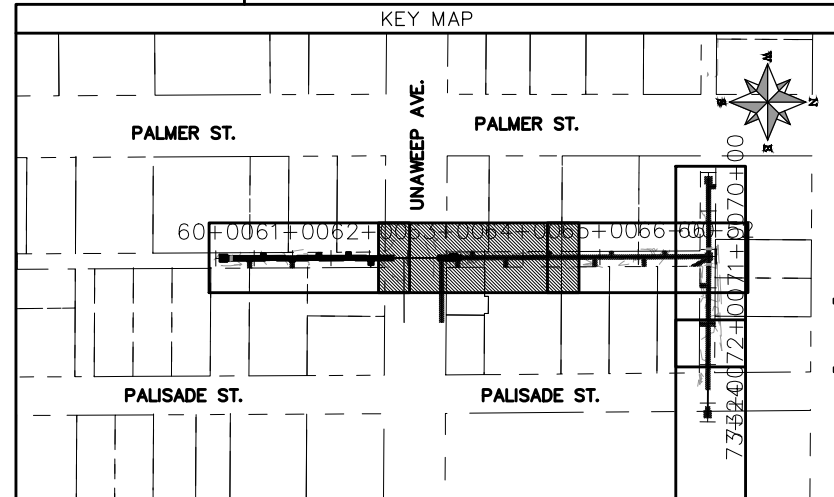
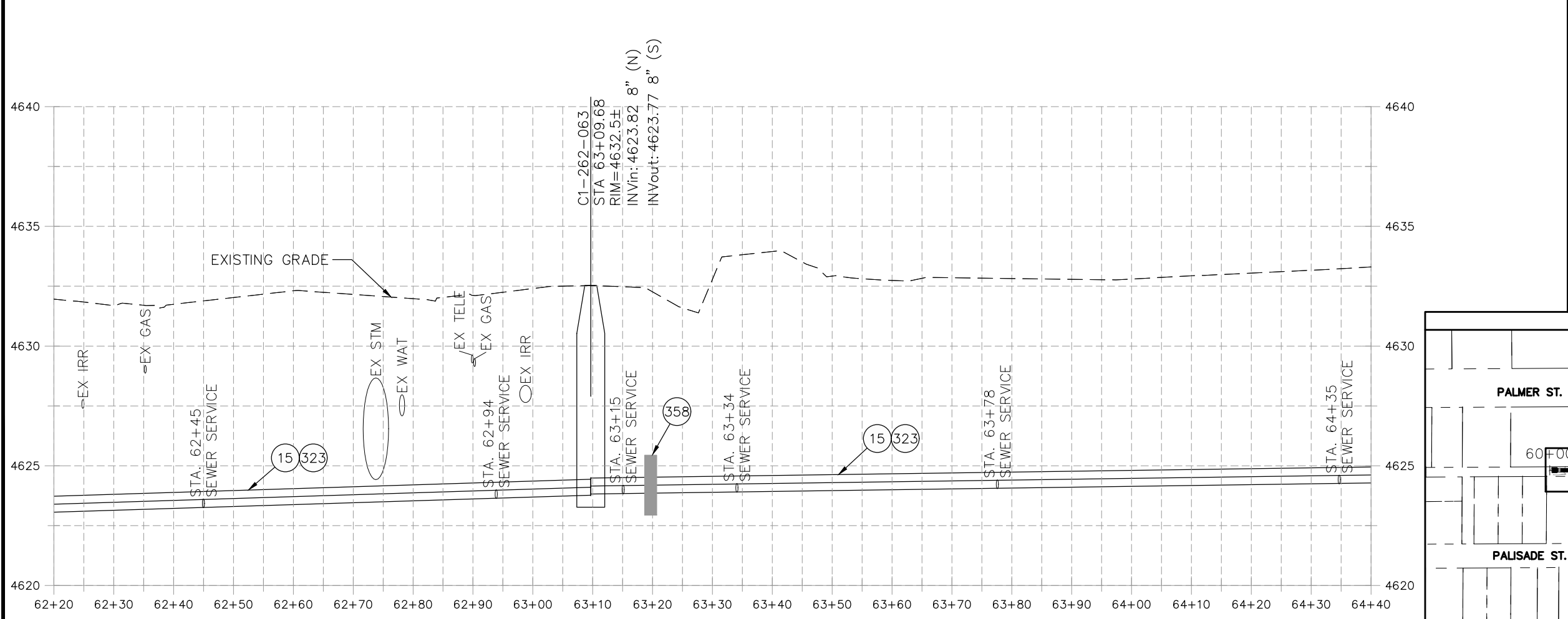
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 60+00 TO STA 62+20**

N:\landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley ALT 1.dwg, 7/1/2021 7:32:14 AM, AutoCAD PDF (General Documentation).pc3



- 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
  - 33 202 - REMOVE EXISTING SURFACE MATERIAL
  - 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 (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) (100 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 NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND 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).
  - 359 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
  - 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
  - 806 PROTECT FENCE
  - 809 PROTECT MANHOLE
  - 823 PROTECT UTILITY POLE
  - 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

SCALES: PLAN & PROFILE

HORIZONTAL: 1" = 20'

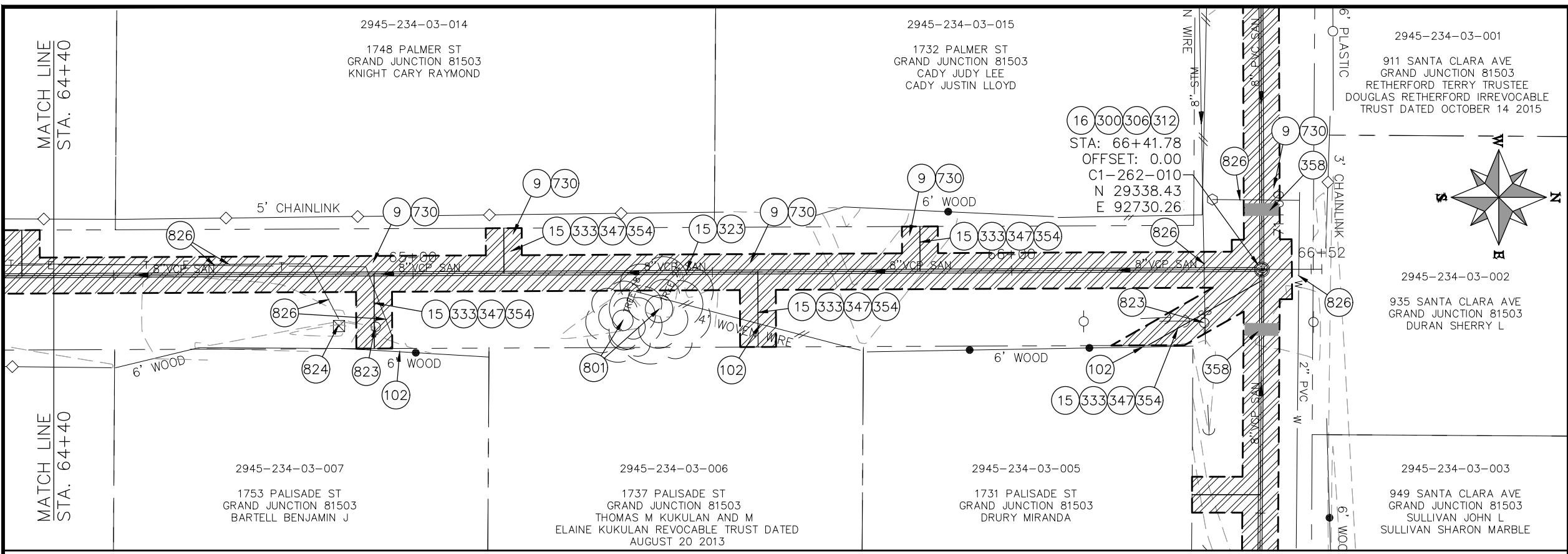
VERTICAL: 1" = 5'



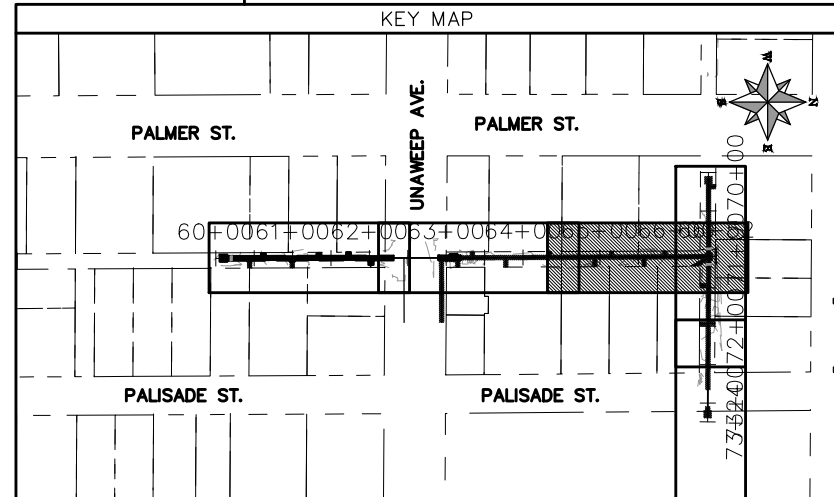
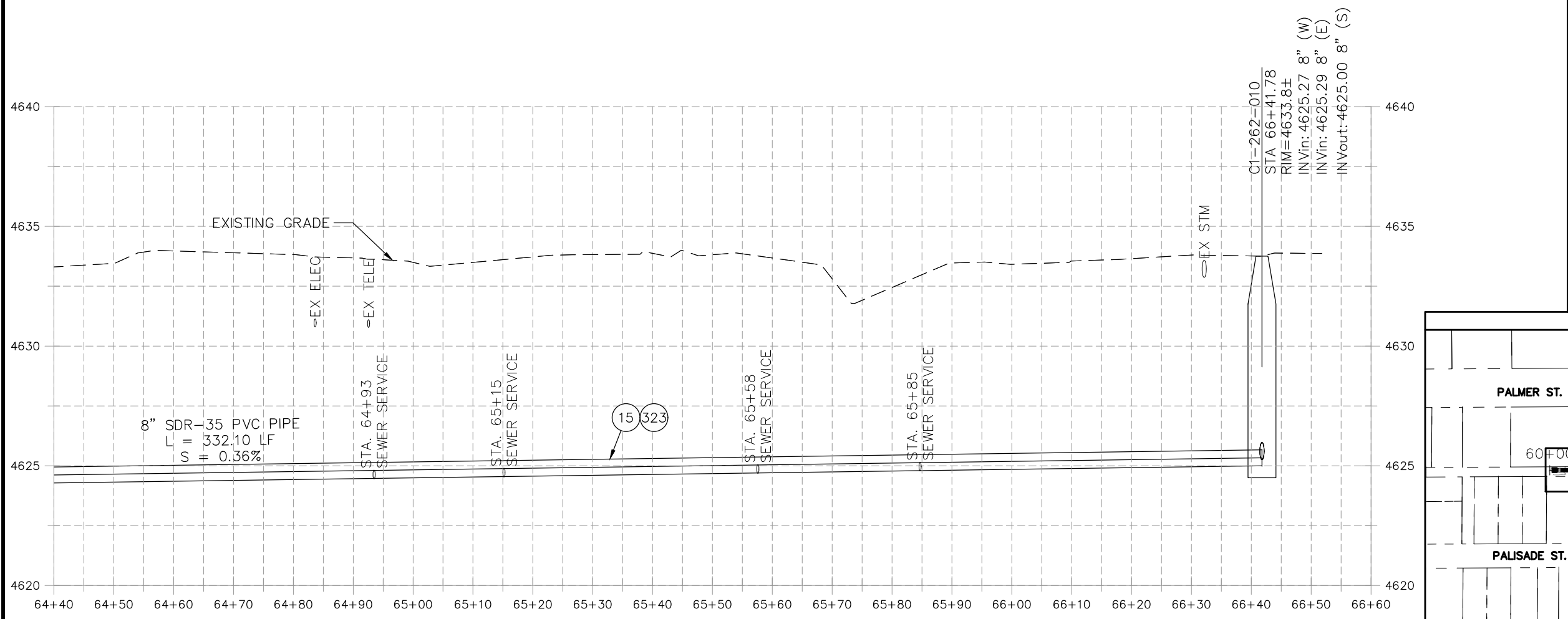
**PUBLIC WORKS ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 62+20 TO STA 64+40**

N:\Landproj\2021 Sewer Replacements - Phase A - UnawEEP Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley ALT 1.dwg, 7/1/2021 7:32:54 AM, \_AutoCAD PDF (General Documentation).pc3



- 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
  - 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 (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) (100 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 NATIVE MATERIALS MEETING 103.16 EARTH 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)
  - 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.



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

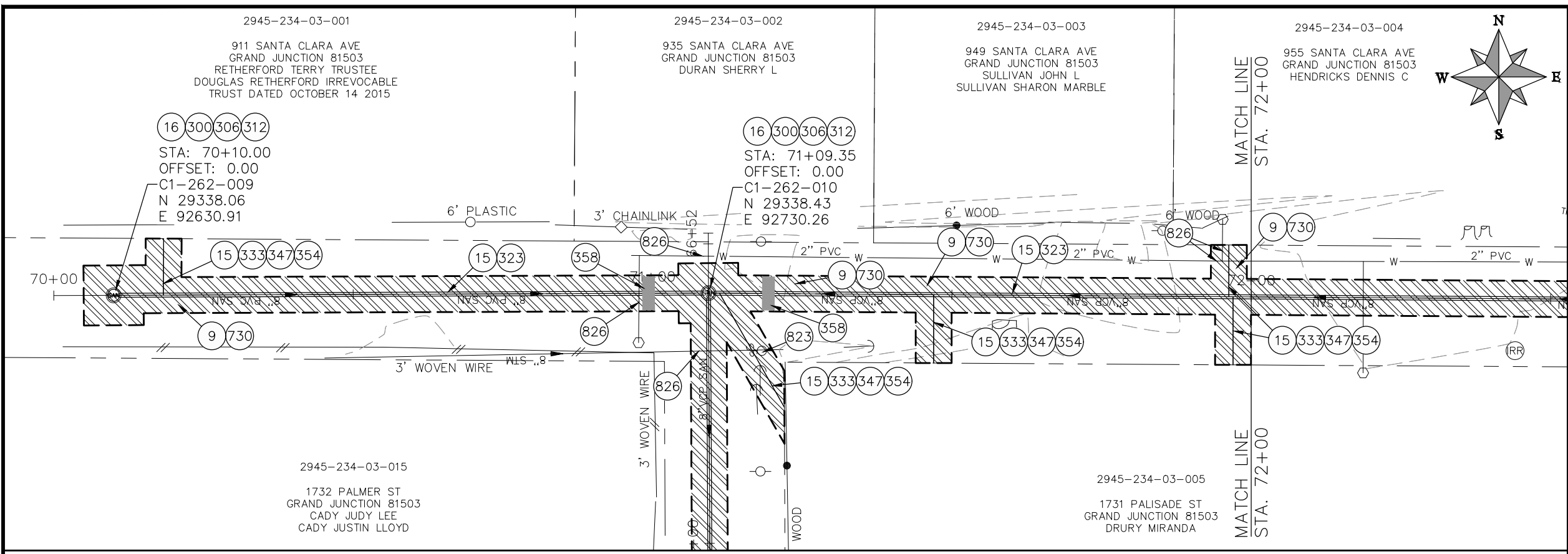
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



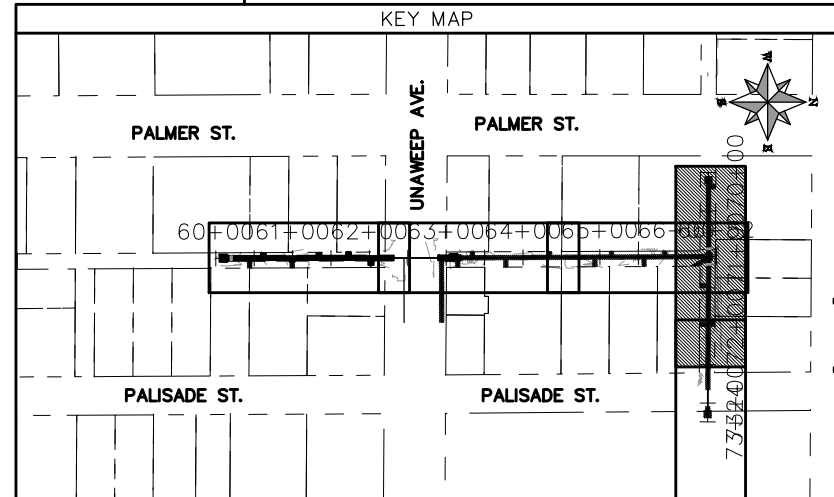
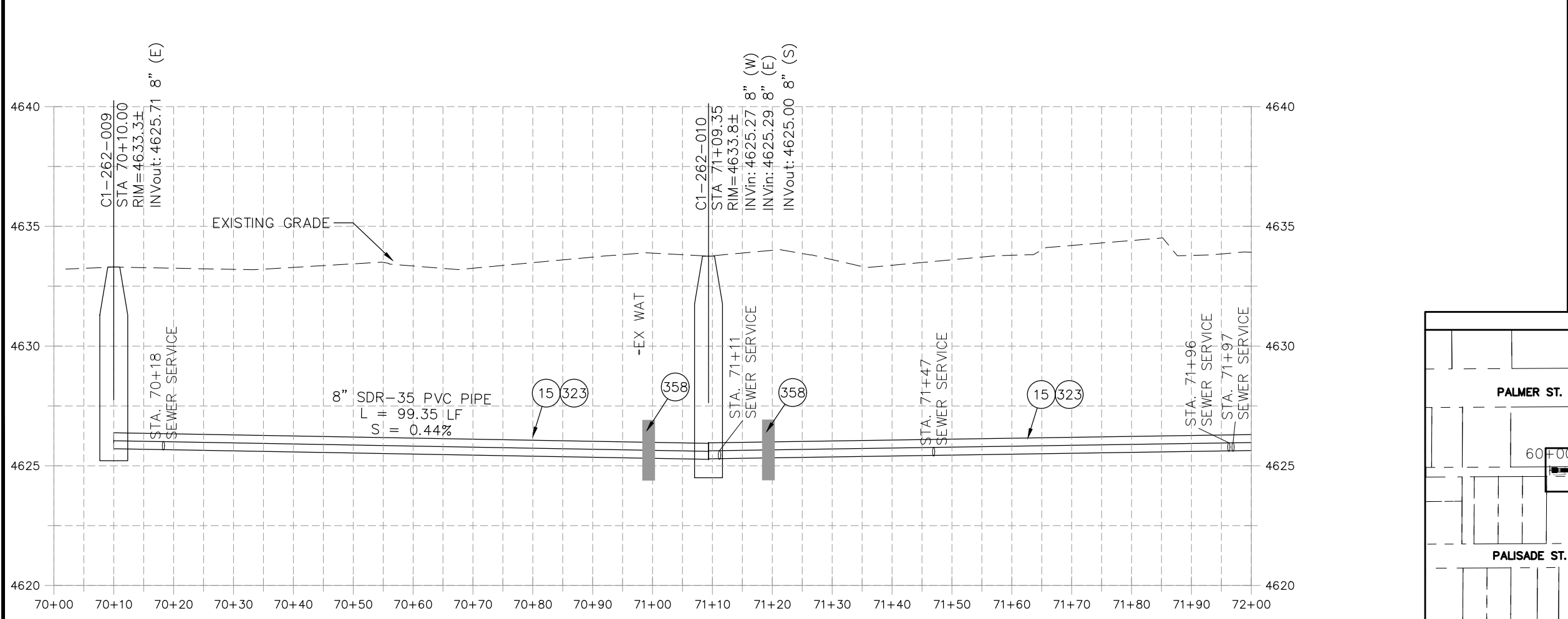
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 64+40 TO STA 66+52**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley ALT 1.dwg, 7/1/2021 7:33:34 AM, AutoCAD PDF (General Documentation).pc3



- 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
  - 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 (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) (100 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 NATIVE MATERIALS MEETING 103.16 EARTH 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)
  - 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.



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

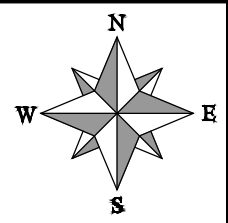
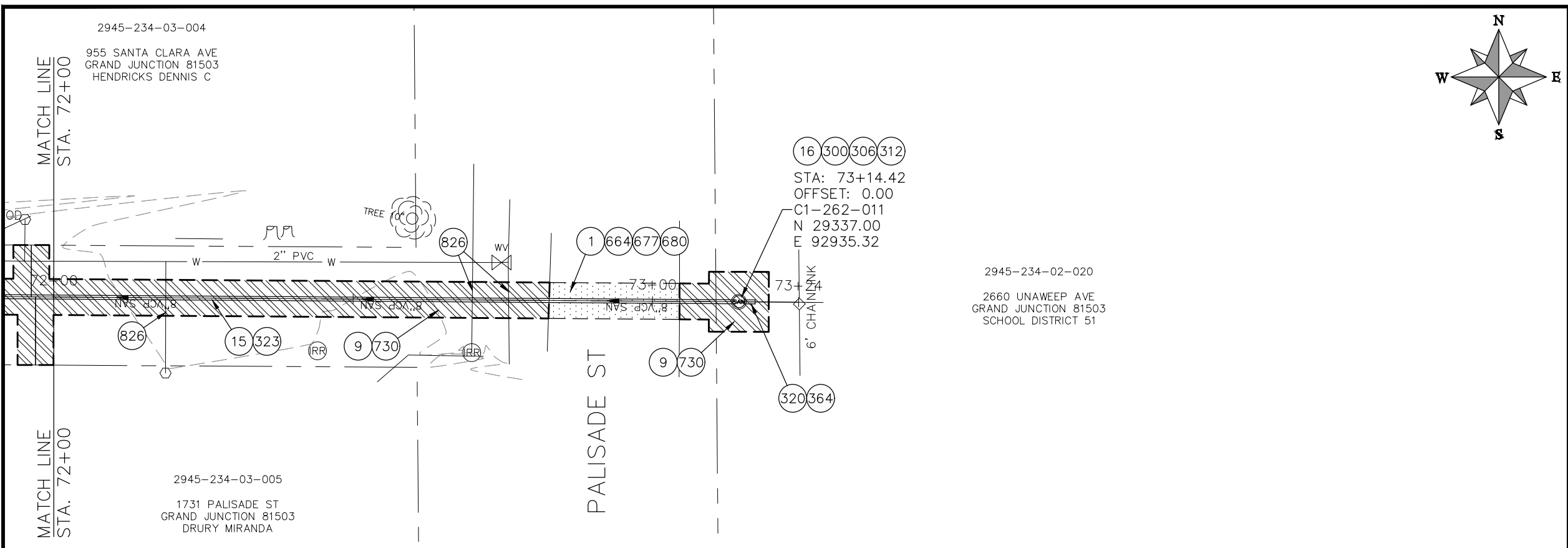


**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 70+00 TO 72+00**

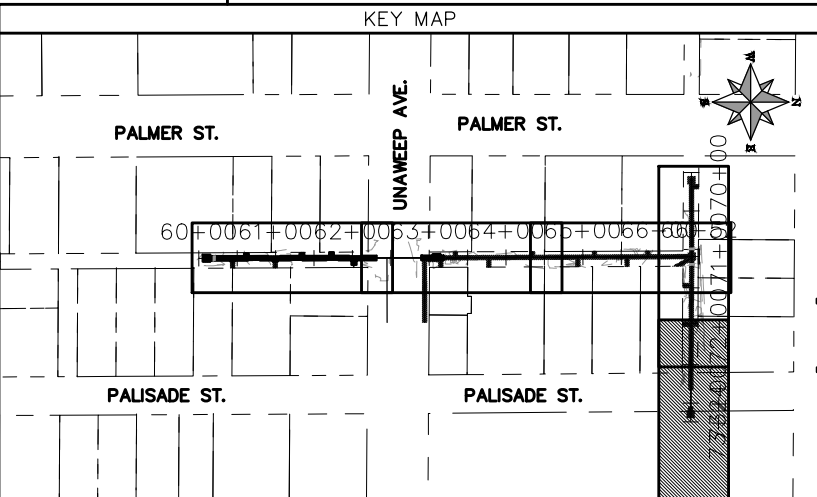
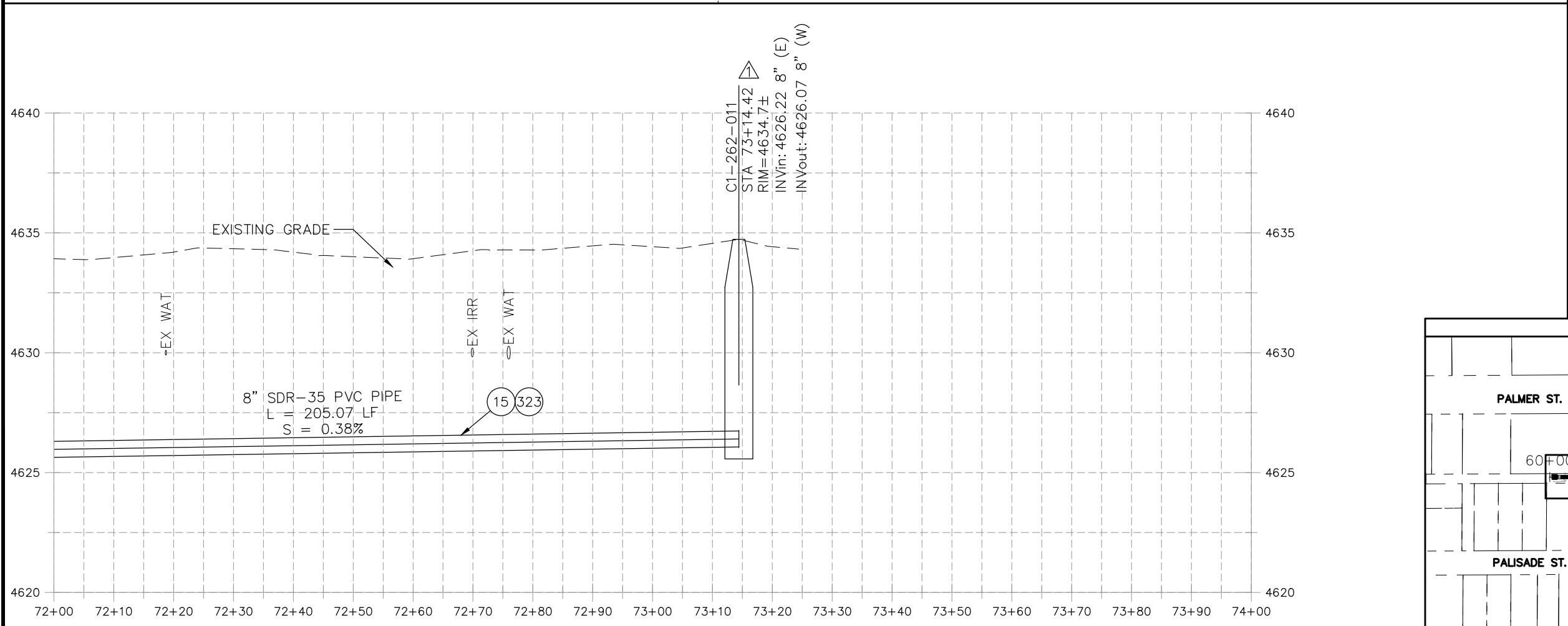
N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley ALT 1.dwg, 7/1/2021 7:34:14 AM, AutoCAD PDF (General Documentation).pc3





**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
- ⑤00 102.11/108.5 - 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 (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) (100 MIL MINIMUM THICKNESS)
- ③20 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
- ③47 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 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)
- ⑧26 PROTECT EXISTING UTILITY LINE IN PLACE.



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

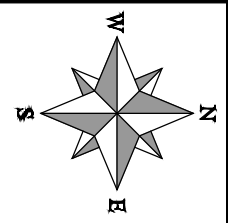
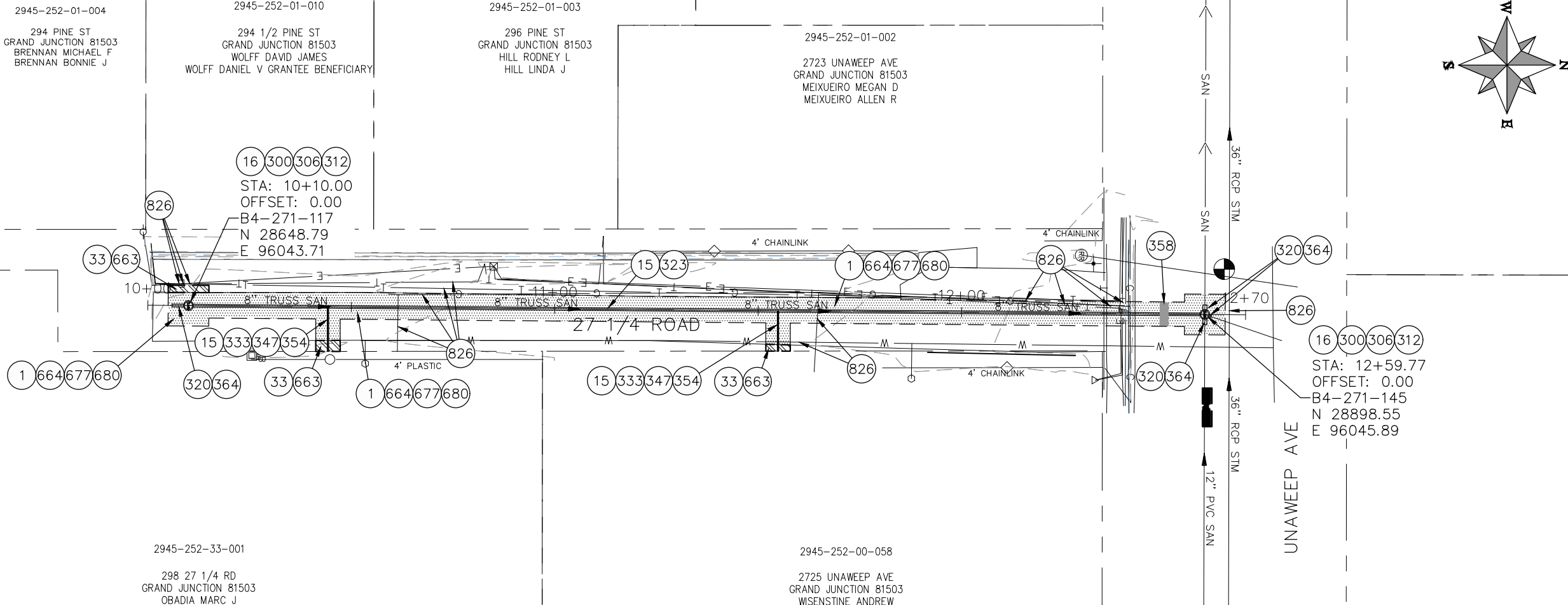
SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



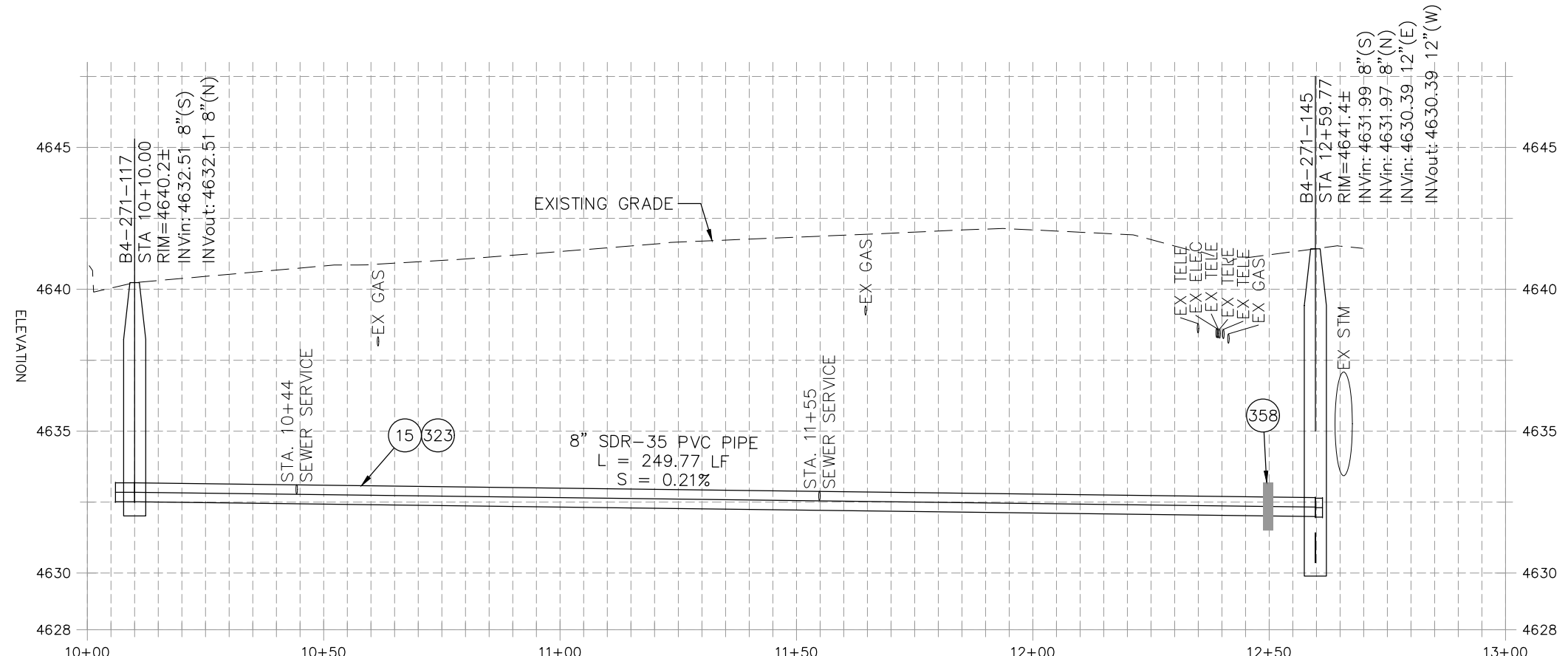
**PUBLIC WORKS  
ENGINEERING DIVISION**

**2021 SEWER LINE REPLACEMENT - PHASE A  
PALMER ST ALLEY PLAN AND PROFILE - ALT 1  
STA 72+00 TO STA 73+24**

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\Palmer Alley ALT 1.dwg, 7/1/2021 7:34:54 AM, AutoCAD PDF (General Documentation).pc3



- 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 (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) (100 MIL MINIMUM THICKNESS)
  - 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (SEE PLAN FOR PIPE SIZE AND MATERIAL). CONTRACTOR SHALL USE A PRECAST BASE AND 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. 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.
  - 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)
  - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



REVISION $\Delta$ XXX	DATE	PROJECT NO.	DATE
REVISION $\Delta$ XXX	06/2021	DJM	04/2021
REVISION $\Delta$ XXX	202X	DJM	4/2021
REVISION $\Delta$ XXX	202X	EM	2021
REVISION $\Delta$ XXX	202X	KH	2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 5'



**PUBLIC WORKS  
ENGINEERING DIVISION**

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

N:\Landproj\2021 Sewer Replacements - Phase A - Unawep Ave\60CAD\00DESIGN\REVISION 1\27 1/4 ROAD ALT 1.dwg, 7/1/2021 7:35:51 AM, AutoCAD PDF (General Documentation).prt