



Purchasing Division

ADDENDUM NO. 2

DATE: October 15, 2015
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: North Avenue Complete Streets Project (12th Street to 23rd Street) IFB-4106-15-DH

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to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

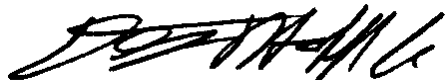
Please make note of the following clarifications:

1. **The bid due date and time for this solicitation is hereby extended to October 28, 2015 prior to 3:00pm.**
2. A reminder: **Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>).** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our **"Electronic Vendor Registration Guide"** at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**)
3. Q. Please clarify the concrete mixes to be used on this project. I assume it will be CDOT Class D and Class P?
 - A. Classes D and P are correct.
4. The contractor should be on notice that the private circuit pedestrian lights may be pulled from the contract and coordination would be required with Xcel.
5. See attached revised Bid Schedule and Plans. Contractor shall utilize the revised Bid Schedule in their bid submission.

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

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written in a cursive style.

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

Bid Schedule: North Avenue Complete Street

ADDENDUM No. 2 - October 16, 2015

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|-----------------|---|----------|-------|------------|-------------|
| 1 | 201-00000 | Clearing and Grubbing | 1.15 | AC | \$ _____ | \$ _____ |
| 2 | 202-00001 | Removal of Structure | 13. | EA | \$ _____ | \$ _____ |
| 3 | 202-00010 | Removal of Tree | 13. | EA | \$ _____ | \$ _____ |
| 4 | 202-00019 | Removal of Inlet | 2. | EA | \$ _____ | \$ _____ |
| 5 | 202-00033 | Removal of Pipe | 24. | LF | \$ _____ | \$ _____ |
| 6 | 202-00155 | Removal of Wall | 7. | LF | \$ _____ | \$ _____ |
| 7 | 202-00190 | Removal of Concrete Median Cover Material | 709. | SY | \$ _____ | \$ _____ |
| 8 | 202-00195 | Removal of Median Cover | 1,439. | SY | \$ _____ | \$ _____ |
| 9 | 202-00200 | Removal of Sidewalk | 1,852. | SY | \$ _____ | \$ _____ |
| 10 | 202-00201 | Removal of Curb | 1,775. | LF | \$ _____ | \$ _____ |
| 11 | 202-00202 | Removal of Gutter | 375. | LF | \$ _____ | \$ _____ |
| 12 | 202-00203 | Removal of Curb and Gutter | 2,650. | LF | \$ _____ | \$ _____ |
| 13 | 202-00206 | Removal of Concrete Curb Ramp | 70. | SY | \$ _____ | \$ _____ |
| 14 | 202-00210 | Removal of Concrete Pavement | 1,050. | SY | \$ _____ | \$ _____ |
| 15 | 202-00220 | Removal of Asphalt Mat | 3,950. | SY | \$ _____ | \$ _____ |
| 16 | 202-00250 | Removal of Pavement Marking | 130. | SF | \$ _____ | \$ _____ |
| 17 | 202-00815 | Removal of Sign (Special) | 1. | EA | \$ _____ | \$ _____ |
| 18 | 202-00821 | Removal of Sign Panel | 1. | EA | \$ _____ | \$ _____ |
| 19 | 203-00010 | Unclassified Excavation (CIP) | 1,121. | CY | \$ _____ | \$ _____ |
| 20 | 203-01597 | Potholing | 40. | HOUR | \$ _____ | \$ _____ |
| 21 | 203-01622 | Sweeping | 30. | HOUR | \$ _____ | \$ _____ |
| 22 | 207-00210 | Stockpile Topsoil | 1,700. | CY | \$ _____ | \$ _____ |
| 23 | 208-00035 | Aggregate Bag | 10. | LF | \$ _____ | \$ _____ |
| 24 | 208-00045 | Concrete Washout Structure | 3. | EA | \$ _____ | \$ _____ |
| 25 | 208-00052 | Storm Drain Inlet Protection (Type 2) | 130. | LF | \$ _____ | \$ _____ |

Bid Schedule: North Avenue Complete Street

ADDENDUM No. 2 - October 16, 2015

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|-----------------|--|----------|-------|------------|-------------|
| 26 | 208-00070 | Vehicle Tracking Pad | 2. | EA | \$ _____ | \$ _____ |
| 27 | 208-00103 | Removal and Disposal of Sediment (Labor) | 40. | HOUR | \$ _____ | \$ _____ |
| 28 | 208-00105 | Removal and Disposal of Sediment (Equipment) | 40. | HOUR | \$ _____ | \$ _____ |
| 29 | 208-00206 | Erosion Control Supervisor | 120. | DAY | \$ _____ | \$ _____ |
| 30 | 210-00050 | Reset Fire Hydrant | 5. | EA | \$ _____ | \$ _____ |
| 31 | 210-00065 | Reset Monument (Type 3a) | 2. | EA | \$ _____ | \$ _____ |
| 32 | 210-00810 | Reset Ground Sign | 3. | EA | \$ _____ | \$ _____ |
| 33 | 210-00815 | Reset Sign Panel | 13. | EA | \$ _____ | \$ _____ |
| 34 | 210-00827 | Reset Pull Box | 14. | EA | \$ _____ | \$ _____ |
| 35 | 210-01000 | Reset Fence | 2,246. | LF | \$ _____ | \$ _____ |
| 36 | 210-01000 | Reset Fence (Special) (Safety Screen) | 623. | LF | \$ _____ | \$ _____ |
| 37 | 210-04010 | Adjust Manhole | 4. | EA | \$ _____ | \$ _____ |
| 38 | 210-04020 | Modify Inlet | 3. | EA | \$ _____ | \$ _____ |
| 39 | 210-04050 | Adjust Valve Box | 5. | EA | \$ _____ | \$ _____ |
| 40 | 210-04060 | Adjust Water Meter | 8. | EA | \$ _____ | \$ _____ |
| 41 | 212-00032 | Soil Conditioning | 0.57 | AC | \$ _____ | \$ _____ |
| 42 | 207-00205 | Topsoil | 8,091. | CY | \$ _____ | \$ _____ |
| 43 | 212-00011 | Seeding Lawn | 0.8 | AC | \$ _____ | \$ _____ |
| 44 | 212-00040 | Soil Preparation Lawn | 0.8 | AC | \$ _____ | \$ _____ |
| 45 | 213-00065 | Inorganic Mulch | 530. | CY | \$ _____ | \$ _____ |
| 46 | 213-00705 | Landscape Boulder (Special) | 54. | EA | \$ _____ | \$ _____ |
| 47 | 214-00145 | Plant Protection Fence | 1,980. | LF | \$ _____ | \$ _____ |
| 48 | 214-00230 | Deciduous Tree (3 Inch Caliper) | 112. | EA | \$ _____ | \$ _____ |
| 49 | 214-00350 | Deciduous Shrub (5 Gallon Container) | 295. | EA | \$ _____ | \$ _____ |
| 50 | 214-00910 | Perennials (1 Gallon Container) | 97. | EA | \$ _____ | \$ _____ |

Bid Schedule: North Avenue Complete Street
ADDENDUM No. 2 - October 16, 2015

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|-----------------|---|----------|-------|------------|-------------|
| 51 | 304-06000 | Aggregate Base Course (CL 6) | 1,962. | TON | \$ _____ | \$ _____ |
| 52 | 403-00720 | Hot Mix Asphalt (Patching) (Asphalt) | 17. | TON | \$ _____ | \$ _____ |
| 53 | 403-34742 | Hot Mix Asphalt (Grading SX)(75)(PG 64-22) | 150. | TON | \$ _____ | \$ _____ |
| 54 | 403-34771 | Hot Mix Asphalt (Grading SX)(75)(PG 76-28) | 40. | TON | \$ _____ | \$ _____ |
| 55 | 411-10255 | Emulsified Asphalt (Slow-Setting) | 100. | GAL | \$ _____ | \$ _____ |
| 56 | 412-00600 | Concrete Pavement (6 inch) | 270. | SY | \$ _____ | \$ _____ |
| 57 | 412-00800 | Concrete Pavement (8 inch) | 960. | SY | \$ _____ | \$ _____ |
| 58 | 514-00100 | Hand Rail | 32. | LF | \$ _____ | \$ _____ |
| 59 | 601-03000 | Concrete Class D (Wall) | 6. | CY | \$ _____ | \$ _____ |
| 60 | 601-40301 | Structural Concrete Coating | 100. | SF | \$ _____ | \$ _____ |
| 61 | 602-00020 | Reinforcing Steel (Epoxy Coated) | 270. | LB | \$ _____ | \$ _____ |
| 62 | 603-00120 | 12 Inch Non-Reinforced Concrete Pipe | 178. | LF | \$ _____ | \$ _____ |
| 63 | 603-50008 | 8 Inch Plastic Pipe | 65. | LF | \$ _____ | \$ _____ |
| 64 | 604-13006 | Inlet Type 13 (5 Foot) (Special) | 2. | EA | \$ _____ | \$ _____ |
| 65 | 604-00305 | Inlet Type C (5 Foot) | 6. | EA | \$ _____ | \$ _____ |
| 66 | 604-30005 | Manhole Slab Base (5 Foot) | 2. | EA | \$ _____ | \$ _____ |
| 67 | 608-00006 | Concrete Sidewalk (6 Inch) | 4,350. | SY | \$ _____ | \$ _____ |
| 68 | 608-00010 | Concrete Curb Ramp | 41. | SY | \$ _____ | \$ _____ |
| 69 | 609-20000 | Curb Type 2 (Section B) (Special) | 52. | LF | \$ _____ | \$ _____ |
| 70 | 609-20010 | Curb Type 2 (Section B) | 1,950. | LF | \$ _____ | \$ _____ |
| 71 | 609-21010 | Curb and Gutter Type 2 (Section I-B) | 340. | LF | \$ _____ | \$ _____ |
| 72 | 609-21020 | Curb and Gutter Type 2 (Section II-B) | 2,360. | LF | \$ _____ | \$ _____ |
| 73 | 609-21900 | Curb and Gutter Type 2 (Section II-B) (Special) | 190. | LF | \$ _____ | \$ _____ |
| 74 | 610-00020 | Median Cover Material (Patterned Concrete) | 3,511. | SF | \$ _____ | \$ _____ |
| 75 | 613-01200 | 2 inch Electrical Conduit | 8,207. | LF | \$ _____ | \$ _____ |

Bid Schedule: North Avenue Complete Street

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|----------|-----------------|---|----------|-------|------------|-------------|
| 76 | 613-04010 | Conduit (4" Broadband) | 7,600. | LF | \$ _____ | \$ _____ |
| 77 | 613-04010 | Conduit (2" City Traffic) | 3,700. | LF | \$ _____ | \$ _____ |
| 78 | 613-07001 | Type One Pull Box | 76. | EA | \$ _____ | \$ _____ |
| 79 | 613-07040 | Pull Box (30"x48"x24") (broadband) | 18. | EA | \$ _____ | \$ _____ |
| 80 | 613-07040 | Pull Box (30"x48"x24") (city Traffic) | 7. | EA | \$ _____ | \$ _____ |
| 81 | 613-10000 | Wiring | 1. | LS | \$ _____ | \$ _____ |
| 82 | 613-30005 | Light Standard and Luminaire (Pedestrian) | 76. | EA | \$ _____ | \$ _____ |
| 83 | 613-40012 | Light Standard Foundation (Special) | 76. | EA | \$ _____ | \$ _____ |
| 84 | 613-501106 | Lighting Control Center (special) | 1. | EA | \$ _____ | \$ _____ |
| 85 | 614-01503 | Steel Sign Support (2" Round) (Post & Socket) | 9. | EA | \$ _____ | \$ _____ |
| 86 | 619-40120 | 1-1/2 Inch Copper Pipe | 40. | LF | \$ _____ | \$ _____ |
| 87 | 619-50080 | 1 Inch Plastic Pipe | 4,920. | LF | \$ _____ | \$ _____ |
| 88 | 619-50100 | 1-1/4 Inch Plastic Pipe | 80. | LF | \$ _____ | \$ _____ |
| 89 | 619-50160 | 2 Inch Plastic Pipe (CL200) | 2,700. | LF | \$ _____ | \$ _____ |
| 90 | 619-50160 | 2 Inch Plastic Pipe (SCH40 PVC Sleeve) | 1,620. | LF | \$ _____ | \$ _____ |
| 91 | 620-00020 | Sanitary Facility | 1. | EA | \$ _____ | \$ _____ |
| 92 | 621-00650 | Pedestrian Stair Structure | 1. | LS | \$ _____ | \$ _____ |
| 93 | 622-00010 | Bicycle Rack | 6. | EA | \$ _____ | \$ _____ |
| 94 | 622-00250 | Bench | 19. | EA | \$ _____ | \$ _____ |
| 95 | 622-00350 | Trash Receptacle | 19. | EA | \$ _____ | \$ _____ |
| 96 | 623-00156 | Irrigation Bubbler | 384. | EA | \$ _____ | \$ _____ |
| 97 | 623-00162 | Drip Emitter Tubing | 4,100. | LF | \$ _____ | \$ _____ |
| 98 | 623-00164 | Drip Emitter | 700. | EA | \$ _____ | \$ _____ |
| 99 | 623-00166 | 3/4 Inch Emitter Valve Assembly | 14. | EA | \$ _____ | \$ _____ |
| 100 | 623-00602 | 2 Inch Plastic Pipe (Irrigation/Sleeve) | 2,040. | LF | \$ _____ | \$ _____ |

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|----------|-----------------|--|----------|-------|------------|-------------|
| 101 | 623-00604 | 4 Inch Plastic Pipe (Irrigation/Sleeve) | 1,160. | LF | \$ _____ | \$ _____ |
| 102 | 623-01712 | 1-1/2 Inch Backflow Preventer | 1. | EA | \$ _____ | \$ _____ |
| 103 | 623-02006 | 3/4 Inch Drain Valve | 3. | EA | \$ _____ | \$ _____ |
| 104 | 623-03108 | 1 Inch Automatic Control Valve | 14. | EA | \$ _____ | \$ _____ |
| 105 | 623-03116 | 1 1/2 Inch Automatic Control Valve (Master Control) | 1. | EA | \$ _____ | \$ _____ |
| 106 | 623-04000 | Control Wire 24 Volt | 15,000. | LF | \$ _____ | \$ _____ |
| 107 | 623-04000 | Control Wire 24 Volt | 5,000. | LF | \$ _____ | \$ _____ |
| 108 | 623-04002 | Power Source Wire | 20. | LF | \$ _____ | \$ _____ |
| 109 | 623-04008 | 1 Inch Quick-Coupler Valve | 3. | EA | \$ _____ | \$ _____ |
| 110 | 623-05016 | 2 Inch Gate Valve | 4. | EA | \$ _____ | \$ _____ |
| 111 | 623-06900 | Valve Box | 16. | EA | \$ _____ | \$ _____ |
| 112 | 623-06900 | Valve Box | 34. | EA | \$ _____ | \$ _____ |
| 113 | 623-06901 | Valve Box (Special) | 14. | EA | \$ _____ | \$ _____ |
| 114 | 623-07510 | Weather Station | 1. | EA | \$ _____ | \$ _____ |
| 115 | 623-07600 | 1 1/2 Inch Flow Sensor | 1. | EA | \$ _____ | \$ _____ |
| 116 | 623-08432 | 40 Station Automatic Controller | 1. | EA | \$ _____ | \$ _____ |
| 117 | 623-xxxxx | 1/4" Distribution Pipe | 1,500. | LF | \$ _____ | \$ _____ |
| 118 | 623-xxxxx | Drip Line Blow-Out | 26. | EA | \$ _____ | \$ _____ |
| 119 | 625-00000 | Construction Surveying | 1. | LS | \$ _____ | \$ _____ |
| 120 | 626-00000 | Mobilization | 1. | LS | \$ _____ | \$ _____ |
| 121 | 627-00001 | Pavement Marking Paint | 6. | GAL | \$ _____ | \$ _____ |
| 122 | 627-30405 | Preformed Thermoplastic Pavement Marking (Right Turn Arrow) | 48. | SF | \$ _____ | \$ _____ |
| 123 | 627-30405 | Preformed Thermoplastic Pavement Marking (Accessibility Parking) | 64. | SF | \$ _____ | \$ _____ |
| 124 | 630-00000 | Flagging | 500. | HOUR | \$ _____ | \$ _____ |
| 125 | 630-00007 | Traffic Control Inspection | 54. | DAYS | \$ _____ | \$ _____ |

Bid Schedule: North Avenue Complete Street

ADDENDUM No. 2 - October 16, 2015

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|-----------------|--|----------|-------|------------|--------------|
| 126 | 630-00012 | Traffic Control Management | 96. | DAYS | \$ _____ | \$ _____ |
| 127 | 630-80341 | Construction Traffic Sign (Panel Size A) | 22. | EA | \$ _____ | \$ _____ |
| 128 | 630-80342 | Construction Traffic Sign (Panel Size B) | 16. | EA | \$ _____ | \$ _____ |
| 129 | 630-80344 | Construction Sign Panel (Special) | 21. | SF | \$ _____ | \$ _____ |
| 130 | 630-80336 | Barricade (Type 3 M-B)(Temporary) | 10. | EA | \$ _____ | \$ _____ |
| 131 | 630-80358 | Advanced Warning Flashing Arrow (type C) | 250. | DAYS | \$ _____ | \$ _____ |
| 132 | 630-80359 | Portable Message Sign Panel | 60. | DAYS | \$ _____ | \$ _____ |
| 133 | 630-80360 | Drum Channelizing Device | 80. | EA | \$ _____ | \$ _____ |
| 134 | 630-80363 | Drum Channelizing Device (With Light) (Flashing) | 80. | EA | \$ _____ | \$ _____ |
| 135 | 630-80377 | Portable Water Filled Barrier (Temporary) | 50. | LF | \$ _____ | \$ _____ |
| 136 | 630-80380 | Traffic Cone | 160. | EA | \$ _____ | \$ _____ |
| 137 | 630 | Public Information Services | 1. | LS | \$ _____ | \$ _____ |
| 138 | 700-70011 | Partnering Program | 250. | FA | \$ 1.00 | \$ 250.00 |
| 139 | 700-70016 | Fuel Cost Adjustment | 1,000. | FA | \$ 1.00 | \$ 1,000.00 |
| 140 | 700-70021 | On the Job Trainee | 320. | HOUR | \$ 2.50 | \$ 800.00 |
| 141 | 700-70320 | Sprinklers | 6,500. | FA | \$ 1.00 | \$ 6,500.00 |
| 142 | 700-70380 | Erosion Control | 3,000. | FA | \$ 1.00 | \$ 3,000.00 |
| 143 | 700-73302 | Lighting by Others (Non-Utility) | 10,000. | FA | \$ 1.00 | \$ 10,000.00 |
| MCR | | Minor Contract Revisions | --- | --- | --- | \$ 75,000.00 |

Bid Amount: \$ _____

Bid Amount:

_____ dollars

REVISION OF SECTION 613
PEDESTRIAN LIGHTING

Section 613 of the Standard Specifications is hereby revised for this project as follows:

Subsection 613.01 Description of the main paragraph shall be modified to the following:

This work consists of furnishing and installing foundations, light standards, luminaires, lamps, conduit, cable, wiring and incidental materials for pedestrian lighting in accordance with these specifications and in conformance with the details, lines, grades and locations shown on the plans or established.

Subsection 613.02 Materials, paragraph 1 shall be modified to the following:

Pedestrian lighting materials shall conform to the requirements of Section 715, and shall be compatible with the requirements of the local utility company unless otherwise noted in this section or on the electrical drawings.

Subsection 613.02 Materials; section (b) shall be modified to the following:

Light Standard. A complete light standard includes the pedestrian pole, luminaire head, base, grounding system, and all hardware.

Subsection 613.02 Materials; section (i); Materials List shall be modified to the following:

Before releasing any materials, the Contractor shall submit to the Engineer for approval three copies of a complete list of all of the equipment and materials related to the installation of the pedestrian luminaires that he intends to install. This list shall include, but is not limited to, the following:

- Light standards, anchor bolts, luminaire mountings, luminaire specifications, lamps, and ballasts
- Luminaire photometric data on disc in IES format from an independent testing facility (if requested)
- Cables, splicing and termination devices
- Conduits, conduit bends and splices, and electrical bushings
- Fuseholders, fuses and cable disconnect devices
- Splice boxes
- Wiring and connection diagrams of all cabinets, circuits, luminaires, etc.
- Load Centers (pedestals), Lighting Controls

The list shall include the brand name, any identifying numbers, relevant technical data, and any other information necessary for maintenance forces to procure exact replacements of any and all equipment and material used on the project. All equipment shall be new and first quality.

The Contractor shall supply manufacturer descriptions of luminaire, pole materials, assemblies, fabrication, performance, and installation. Submittals shall also indicate color for review and approval. The Landscape Architect and Engineer must approve all shop drawings, submittals, and material descriptions before the Contractor may order from supplier.

The Contractor shall furnish to the Engineer three copies of all Certificates of Compliance supplied by the manufacturer of the equipment. This equipment shall include, but is not limited to, the following:

- Luminaire mountings
- Light standards, distribution and accessories
- Electrical wire and cable
- Lighting Control Centers (pedestals)
- Circuit breakers
- Photoelectric cells
- Luminaires, lamps and ballasts
- Ground rods
- Anchor bolts
- Photometric data

Subsection 613.05 Light Standards shall include the following:

Light Standard assemblies shall be fabricated and placed in accordance with the details and dimensions shown on the landscape and electrical plans, or as directed by the Engineer. The careful erection and aligning of the components furnished shall be considered a most essential feature of the installation and shall be as near to true vertical alignment as practical.

Prior to installation, all Light Standards shall be stored above ground, on skids in manufacturer's packaging to prevent damage.

Subsection 613.06 Luminaires and Lamps shall include the following:

New pedestrian luminaires shall be anchored and secured to pole as indicated in manufacturer's instructions. Luminaires shall be adjusted vertically and horizontally to provide the required mounting height and maximum light distribution on the sidewalk.

Subsection 613.12 shall include the following:

Electrical Contractor will be responsible for the materials and installation (furnish and install) of the pedestrian luminaires. The local utility company will be responsible for the materials and installation (furnish and install) of the street luminaires.

622.28 Payment will be made under:

| <u>Pay Item</u> | <u>Pay Unit</u> |
|--|-----------------|
| 1 Inch Electrical Conduit (Irrigation) | Linear Foot |
| 2 Inch Electrical Conduit (Pedestrian) | Linear Foot |
| Wiring (Pedestrian Lighting) | Lump Sum |
| Pedestrian Light Standard | Each |
| Pedestrian Light Foundation | Each |
| Lighting Control Center | Each |

TRENCHING AND TUNNELING NEAR TREES

One of the primary goals of this project is to save some of the existing trees on North Avenue. The large existing trees provide needed shade, as well as beauty and grace to the area. To save the trees, efforts will concentrate on the construction methods taking place as we work in and around the roots of the trees.

All roots are important to the health of the tree. Roots spread to where soil conditions provide nutrients, moisture, and especially oxygen, which is usually near the surface. About 85% of a tree's roots are within the top 18" of soil. Root ends taper out to tiny nonwoody threads, some with "root hairs". They are often within inches of the surface. Some species have tap roots protruding down from the center of the tree. Trees with tap roots, if any, will be identified by Parks and Rec personnel.

Roots typically spread out from ½ to 2 times the height of a tree, or farther. However, the essential mass of roots is usually considered to be within the "dripline", the area underneath the tree's branches. The dripline area is sacred ground for tree protection.

Trenching

Roots with a sharply cut end will quickly produce a flush of new roots, helping the tree to recover from its injury. A crushed or torn root leads to decay and few new roots.

Trench carefully by hand or machine near trees, sawing roots over 2" in diameter. Make the cut flush with the side of the trench closest to the tree. No need to paint or treat the ends. When roots 2" or larger are accidentally broken, dig out enough of the trench side to saw through an undamaged portion of the root.

In trenches where roots have been cut, backfill as soon as possible or keep all root ends moist with wet burlap, peat moss or similar material. In this arid climate, small roots can die in 10 or 15 minutes. Large, woody roots should never be exposed for more than an hour. Wind makes conditions even worse.

Compact the backfill to original firmness, but no more. Too much compaction removes pores and will prevent or slow root growth. Water the backfill. This will keep roots moist and remove large air pockets that might retard growth of new roots.

Trenching should come no closer to the tree than the dripline.

Boring

Since most roots live in the top 18" of soil, boring 24" deep will usually do little damage. However, root patterns vary depending on species and size of tree and the kind of soil. For this project, we recommend boring 36" deep beneath trees that are less than 12" in diameter, and 48" deep for trees greater than 12" in diameter. If leeway permits, it is best to bore 1' to 2' on either side of the tree's center. In this way, the tunnel will miss the tap root in case there is one.

If at all possible, minimize the work pit size.

Spoil Piles

Shovels or backhoes removing stored soil can cut into the surface and destroy absorbing roots, adding more injury to the tree. If even an inch of soil is left after backfilling or hauling away soil, it can cut off vital oxygen. So, please pile excavated soil on the side of the trench opposite the tree. If this is not possible, place the soil on a plastic tarp, plywood or thick bed of mulch.

Protect tree by erecting a fence at or just outside dripline. Please notify Parks and Rec personnel if any branches are broken or damaged.

Please refer to “Trenching & Tunneling Near Trees, A Field Pocket Guide for Qualified Utility Workers”, by Dr. James R. Fazio, The National Arbor Day Foundation, 100 Arbor Avenue, Nebraska City, NE 68410 (402) 474-5655. www.arborday.org

Oversight / NHS

FHWA REGION VIII OVERSIGHT? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DESCRIPTION OF PROJECT

A REVITALIZATION PROJECT FOR NORTH AVENUE FROM 12th STREET TO 23RD STREET IMPLEMENTING "COMPLETE STREETS" DESIGN STANDARDS. THIS PROJECT IS A SAFETY AND A MULTI MODAL TRANSPORTATION ENHANCEMENT PROJECT WHICH INCLUDES CONSTRUCTION OF DETACHED SIDEWALKS ON BOTH SIDES OF THE ROADWAY CONSISTENT IN ALIGNMENT AND WIDTH, PROVIDING CONSISTENT LANDSCAPE AREAS ON BOTH SIDES OF THE ROADWAY, CONSTRUCTING RAISED AND LANDSCAPED MEDIANS WITHIN THE EXISTING TRAFFIC ISLANDS THE LENGTH OF THE PROJECT CONSISTENT IN APPEARANCE, AND CONSTRUCTING STORM DRAIN AND WATER QUALITY FEATURES.

A MANDATORY PRE-BID CONFERENCE WILL BE HELD ON _____, 2015 AT ____:____M AT GRAND JUNCTION CITY HALL LOCATED AT 250 NORTH 5TH STREET, GRAND JUNCTION, COLORADO TO PRESENT A BRIEF OVERVIEW OF THE PROJECT AND TO ANSWER QUESTIONS FROM PERSPECTIVE BIDDERS.

TABULATION OF LENGTH & DESIGN DATA

| STATION | ROADWAY | |
|--|-----------------------------|---------------|
| | US 6 FEET | US 6 MILES |
| BEGIN PROJECT TCSP M555-029 STA 59+40 = MP 31.6 | 3923 | .74 |
| END PROJECT TCSP M555-029 STA 98+63 = MP 32.34 | | |
| PROJECT GROSS LENGTH | 3923 | 0.74 |
| 2014 DESIGN TRAFFIC | DHV = 2,200 ADT = 21,800 | |

* FOR INFORMATION ONLY

City of Grand Junction, Department of Public Works, Utilities, and Planning

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. TCSP M555-029

North Avenue Complete Streets Project

MESA COUNTY

CONSTRUCTION PROJECT CODE NO. 19365

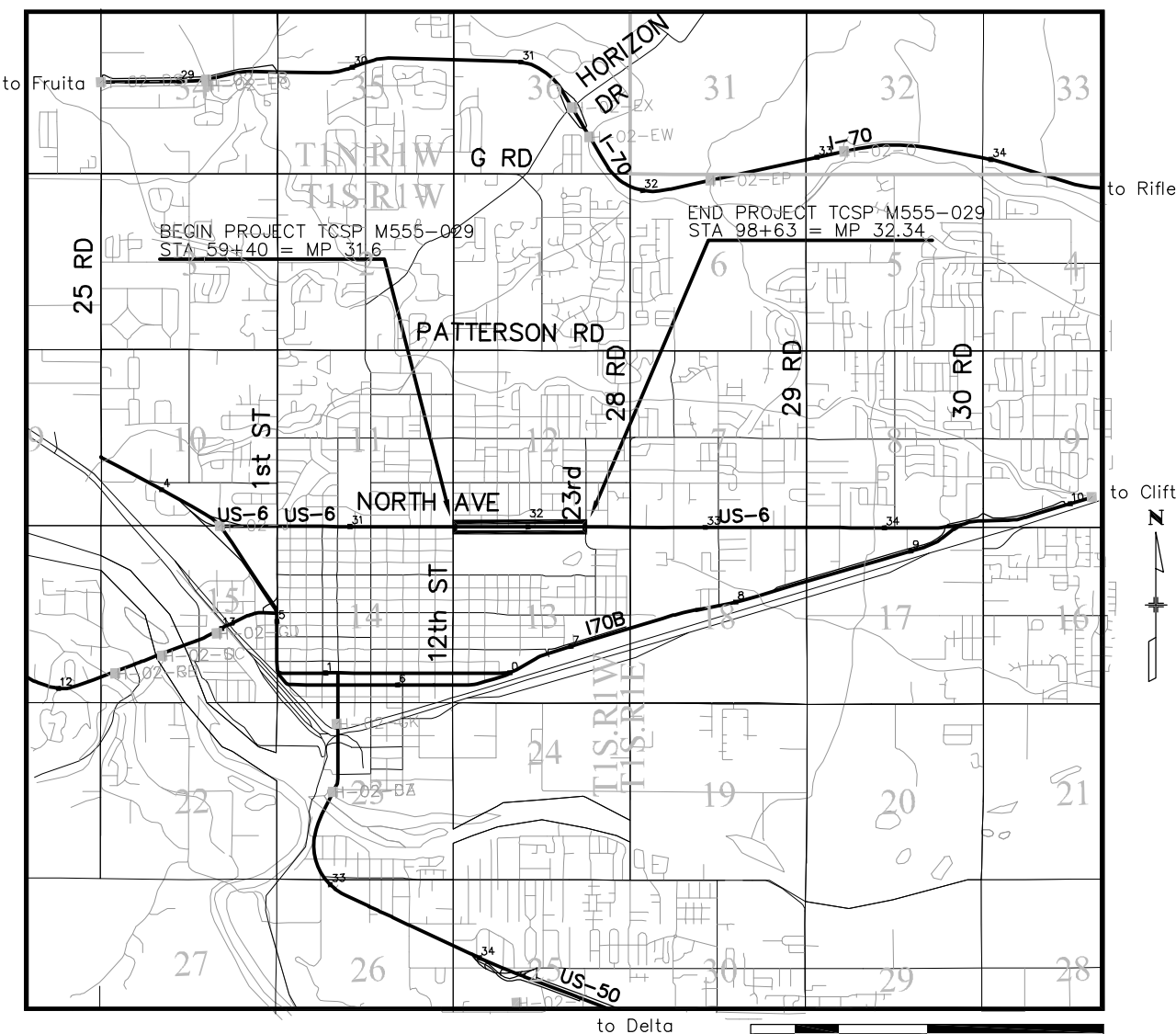
NORTH AVENUE FROM 12th STREET TO 23rd STREET

Related Projects:
P. E. UNDER PROJECT:
Project Number TCSP M555-029
Project Code: 19365

R.O.W. Projects:
R.O.W. Project Description TCSP M555-029

SHEET No. TITLE

- R1 1 Title Sheet
- 2 CDOT Standard Plan List
- 3-4 Typical Cross Section
- 5-6 Roadway Details
- 7-11 Drainage Details
- 12 General Notes
- 13 Utility Notes and Vendor Contacts
- R1 14-15 Summary of Approximate Quantities
- 16 Summary of Earthwork Quantities
- R1 17-22 Tabulation of Removals
- 23 Tabulation of adjustments, modifications, and resets
- 24-26 Tabulation of Surfacing
- 27-29 Tabulation of Sidewalk, Curb, Gutter, Median Cover, Curb Ramp, and Hand Rail
- 30 Tabulation of Drainage Removals & Drainage Items
- 31 Tabulation of Final Signing
- 32 Tabulation of Pavement Marking
- 33 Tabulation of Construction Traffic Control Devices
- 34 Survey Tabulation Sheet
- R1 35-40 Removal Plan
- 41-46 Roadway Plan
- 47 Retaining Wall Plan and Profile
- 48-53 Staking Plan
- 54-68 Intersection Corner Ramp Plan
- 69-85 Roadway Profile
- 86-127 Driveway Plans and Profiles
- 128-131 Storm Drain Plan and Profile
- 132-137 Signing Plan
- 138-139 Striping Plan
- 140-144 Storm Water Management Plan
- 145-150 Storm Water Management Plan - Site Map
- 151-218 Landscape Plans
- 219 Irrigation Notes
- 220 Irrigation Schedule
- 221-233 Irrigation Plans
- 234-237 Irrigation Details
- 238 Irrigation Schedule
- R1 239-252 Conduit Plan
- R1 253-264 Lighting Plan
- 265-280 Roadway Cross Sections
- 281-304 CDOT S-STANDARD PLAN S-630-1
(TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION)



PROJECT LOCATION MAP

PLANS PREPARED BY:



Know what's below. Call before you dig.

| |
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| Print Date: at left |
| File Name: at left |
| Horiz. Scale: As Noted Vert. Scale: As Noted |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | | |
|-----------------|----------------------|-------|--|
| Date: | Comments | Init. | |
| 10-16-15 | ADDENDUM ON 10-16-15 | JE | |

Colorado Department of Transportation

606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

| |
|----------------|
| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| Contract Information | |
|------------------------------|-----------------------|
| Contractor: | |
| Resident Engineer: | |
| Project Engineer: | |
| PROJECT STARTED: ___/___/___ | ACCEPTED: ___/___/___ |
| Comments: | |

| |
|------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number |

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North Avenue (U.S. Highway 6) Complete Streets Project

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| PLAN NUMBER | NEW OR REVISED | M STANDARD TITLE | PAGE NUMBER |
|-------------|-------------------------------------|--|-------------|
| M-100-1 | | STANDARD SYMBOLS (3 SHEETS) | 1-3 |
| M-100-2 | | ACRONYMS AND ABBREVIATIONS (4 SHEETS) | 4-7 |
| M-203-1 | <input type="checkbox"/> | APPROACH ROADS (REVISED ON JULY 08, 2013) | 8 |
| M-203-2 | | DITCH TYPES | 9 |
| M-203-11 | | SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS) | 10-12 |
| M-203-12 | | SUPERELEVATION STREETS (2 SHEETS) | 13-14 |
| M-206-1 | | EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS) | 15-16 |
| M-206-2 | | EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS) | 17-18 |
| M-208-1 | <input checked="" type="checkbox"/> | TEMPORARY EROSION CONTROL (10 SHEETS) (REVISED ON JULY 16, 2015) | 19-30 |
| M-210-1 | | MAILBOX SUPPORTS (2 SHEETS) | 31-32 |
| M-214-1 | | PLANTING DETAILS | 33 |
| M-216-1 | <input type="checkbox"/> | SOIL RETENTION COVERING (2 SHEETS) (NEW ON JULY 16, 2015) | 33 |
| M-412-1 | <input type="checkbox"/> | CONCRETE PAVEMENT JOINTS (5 SHEETS) (REVISED ON JULY 24, 2012) | 34-38 |
| M-510-1 | | STRUCTURAL PLATE PIPE H-20 LOADING | 39 |
| M-601-1 | <input type="checkbox"/> | SINGLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON AUGUST 27, 2013) | 40-41 |
| M-601-2 | <input type="checkbox"/> | DOUBLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON AUGUST 27, 2013) | 42-43 |
| M-601-3 | <input type="checkbox"/> | TRIPLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON AUGUST 27, 2013) | 44-45 |
| M-601-10 | | HEADWALL FOR PIPES | 46 |
| M-601-11 | | TYPE "S" SADDLE HEADWALLS FOR PIPE | 47 |
| M-601-12 | | HEADWALLS AND PIPE OUTLET PAVING | 48 |
| M-601-20 | | WINGWALLS FOR PIPE OR BOX CULVERTS | 49 |
| M-603-1 | <input type="checkbox"/> | METAL PIPE (4 SHEETS) (REVISED ON OCTOBER 02, 2014) | 50-53 |
| M-603-2 | <input type="checkbox"/> | REINFORCED CONCRETE PIPE (REVISED ON OCTOBER 02, 2014) | 54 |
| M-603-3 | | PRECAST CONCRETE BOX CULVERT | 55 |
| M-603-4 | <input type="checkbox"/> | CORRUGATED POLYETHYLENE PIPE (AASHTO M294) (REVISED ON OCT. 02, 2014) | 56 |
| M-603-5 | <input type="checkbox"/> | POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304) (REVISED ON OCT. 02, 2014) | 57 |
| M-603-6 | <input type="checkbox"/> | STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20) (NEW ON APRIL 30, 2015) | 58-59 |
| M-603-10 | | CONCRETE AND METAL END SECTIONS (2 SHEETS) | 58-59 |
| M-604-10 | | INLET, TYPE C | 60 |
| M-604-11 | | INLET, TYPE D | 61 |
| M-604-12 | | CURB INLET TYPE R (2 SHEETS) | 62-63 |
| M-604-13 | | CONCRETE INLET TYPE 13 | 64 |
| M-604-20 | | MANHOLES (3 SHEETS) | 65-67 |
| M-604-25 | | VANE GRATE INLET (5 SHEETS) | 68-72 |
| M-605-1 | | SUBSURFACE DRAINS | 73 |
| M-606-1 | <input type="checkbox"/> | GUARDRAIL TYPE 3 W-BEAM (19 SHEETS) (REVISED ON OCT. 27, 2014) | 74-92 |
| M-606-13 | <input type="checkbox"/> | GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS) (REVISED ON AUGUST 30, 2013) | 93-96 |
| M-606-14 | | PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS) | 97-99 |

| PLAN NUMBER | NEW OR REVISED | M STANDARD TITLE | PAGE NUMBER |
|-------------|-------------------------------------|--|-------------|
| M-607-1 | | WIRE FENCES AND GATES (3 SHEETS) | 100-102 |
| M-607-2 | | CHAIN LINK FENCE (3 SHEETS) | 103-105 |
| M-607-3 | | BARRIER FENCE | 106 |
| M-607-4 | <input type="checkbox"/> | DEER FENCE, GATES, AND GAME RAMPS (5 SHEETS) (REVISED ON APRIL 30, 2015) | 107-109 |
| M-607-10 | | PICKET SNOW FENCE | 110 |
| M-607-15 | | ROAD CLOSURE GATE (9 SHEETS) | 111-119 |
| M-608-1 | <input checked="" type="checkbox"/> | CURB RAMPS (7 SHEETS) (REVISED ON JUNE 16, 2014) | 120-125 |
| M-609-1 | <input checked="" type="checkbox"/> | CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS) (REVISED ON JULY 24, 2012) | 126-129 |
| M-611-1 | | CATTLE GUARD (2 SHEETS) | 130-131 |
| M-611-2 | <input type="checkbox"/> | DEER GUARD (2 SHEETS) (NEW ON APRIL 30, 2015) | 130-131 |
| M-613-1 | | ROADWAY LIGHTING (4 SHEETS) | 132-135 |
| M-614-1 | | RUMBLE STRIPS (3 SHEETS) | 136-138 |
| M-614-2 | | SAND BARREL ARRAYS (2 SHEETS) | 139-140 |
| M-615-1 | | EMBANKMENT PROTECTOR TYPE 3 | 141 |
| M-615-2 | | EMBANKMENT PROTECTOR TYPE 5 | 142 |
| M-616-1 | | INVERTED SIPHON | 143 |
| M-620-1 | | FIELD LABORATORY CLASS 1 | 144 |
| M-620-2 | | FIELD LABORATORY CLASS 2 (2 SHEETS) | 145-146 |
| M-620-11 | | FIELD OFFICE CLASS 1 | 147 |
| M-620-12 | | FIELD OFFICE CLASS 2 | 148 |
| M-629-1 | | SURVEY MONUMENTS (2 SHEETS) | 149-150 |

| PLAN NUMBER | NEW OR REVISED | S STANDARD TITLE | PAGE NUMBER |
|-------------|-------------------------------------|---|-------------|
| S-612-1 | | DELINEATOR INSTALLATIONS (7 SHEETS) | 151-157 |
| S-614-1 | <input checked="" type="checkbox"/> | GROUND SIGN PLACEMENT (2 SHEETS) (REVISED ON DECEMBER 12, 2014) | 158-159 |
| S-614-2 | | CLASS I SIGNS | 160 |
| S-614-3 | | CLASS II SIGNS | 161 |
| S-614-4 | <input type="checkbox"/> | CLASS III SIGNS (3 SHEETS) (REVISED ON DECEMBER 17, 2014) | 162-164 |
| S-614-5 | | BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS) | 165-166 |
| S-614-6 | <input type="checkbox"/> | CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS) (REVISED ON SEPTEMBER 16, 2013) | 167-168 |
| S-614-8 | <input type="checkbox"/> | TUBULAR STEEL SIGN SUPPORT DETAILS (6 SHEETS) (REVISED ON OCTOBER 23, 2014) | 169-173 |
| S-614-9 | | PEDESTRIAN PUSH BUTTON POST ASSEMBLY | 174 |
| S-614-10 | | MARKER ASSEMBLY INSTALLATIONS | 175 |
| S-614-11 | | MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS | 176 |
| S-614-12 | | STRUCTURE NUMBER INSTALLATION | 177 |
| S-614-14 | | FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS) | 178-180 |
| S-614-20 | | TYPICAL POLE MOUNT SIGN INSTALLATIONS | 181 |
| S-614-21 | | CONCRETE BARRIER SIGN POST INSTALLATIONS | 182 |
| S-614-22 | | TYPICAL MULTI-SIGN INSTALLATIONS | 183 |
| S-614-40 | <input type="checkbox"/> | TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS) (REVISED ON APRIL 2, 2015) | 184-188 |
| S-614-40A | <input type="checkbox"/> | ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (4 SHEETS) (REVISED ON APRIL 2, 2015) | 189-192 |
| S-614-41 | <input type="checkbox"/> | TEMPORARY SPAN WIRE SIGNALS (REVISED ON APRIL 2, 2015) | 193 |
| S-614-42 | | CABINET FOUNDATION DETAIL (4 SHEETS) | 194-197 |
| S-614-43 | | TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (10 SHEETS) | 198-207 |
| S-614-44 | <input type="checkbox"/> | PEDESTAL POLE SIGNALS (2 SHEETS) (REVISED ON NOVEMBER 03, 2014) | 208-219 |
| S-614-50 | <input type="checkbox"/> | STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS) (REVISED ON NOVEMBER 28, 2012) | 220-233 |
| S-614-60 | <input type="checkbox"/> | DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS) (REVISED ON NOVEMBER 28, 2012) | 234-238 |
| S-627-1 | <input checked="" type="checkbox"/> | PAVEMENT MARKINGS (5 SHEETS) (REVISED ON JUNE 10, 2014) | 239-258 |
| S-630-1 | <input checked="" type="checkbox"/> | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (20 SHEETS) (REVISED ON DECEMBER 08, 2014) | 259 |
| S-630-2 | | BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS | 260 |
| S-630-3 | | FLASHING BEACON (PORTABLE) DETAILS | 261-262 |
| S-630-4 | | STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS) | 263-264 |
| S-630-5 | <input type="checkbox"/> | PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS) (REVISED ON AUGUST 13, 2015) | 265 |
| S-630-6 | | EMERGENCY PULL-OFF AREA (TEMPORARY) | 266-268 |
| S-630-7 | | ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS) | 266-268 |

COLORADO
 DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 04, 2012
 Revised on August 13, 2015

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

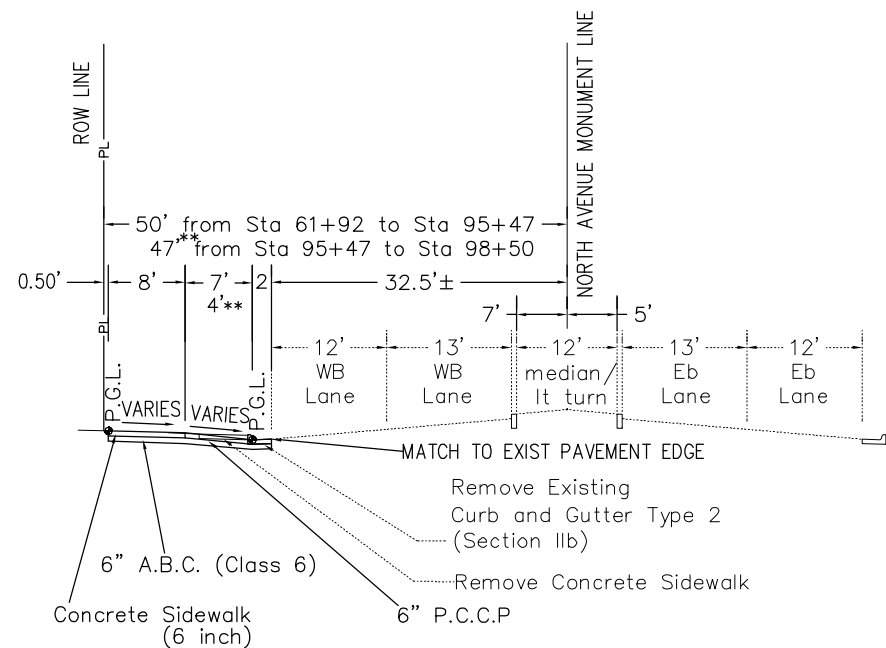
NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX , WILL BE ATTACHED TO THE PLANS.

| | | | | | | | | | | | | |
|--|------|-----------------|----------|-------|---|----------------|------------------------|-------------------|---|--|-----------------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | |  Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | Standards Plans | | | Project No./Code | |
| File Name: standards plan list revised april 30 2015 | | Date: | Comments | Init. | | No Revisions: | | List | | | TCSP M555-029 | |
| Horiz. Scale: AS SHOWN AS SHOWN | | | | | | Revised: | Designer: John C Smith | Structure Numbers | - | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John C Smith | Subset Sheets: | - | | Sheet Number 2 | |

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Driveway Station Ranges:

- 61+88.58 to 61+97.79
- 62+23.84 to 62+71.48
- 63+26.64 to 63+79.08
- 64+53.36 to 64+93.61
- 65+44.66 to 65+94.44
- 67+36.65 to 67+47.65
- 69+04.83 to 69+44.44
- 70+72.57 to 71+19.77
- 77+57.52 to 77+99.73
- 80+19.20 to 80+31.80
- 80+54.41 to 80+63.84
- 81+81.44 to 82+29.46
- 84+56.30 to 85+05.63
- 85+54.64 to 85+96.13
- 86+54.11 to 86+94.67
- 87+30.34 to 87+75.00
- 87+92.30 to 88+35.24
- 89+11.08 to 89+50.81
- 90+06.18 to 90+41.57
- 90+47.10 to 90+97.87
- 95+75.14 to 96+30.52
- 96+70.35 to 97+27.94
- 97+44.85 to 97+85.17

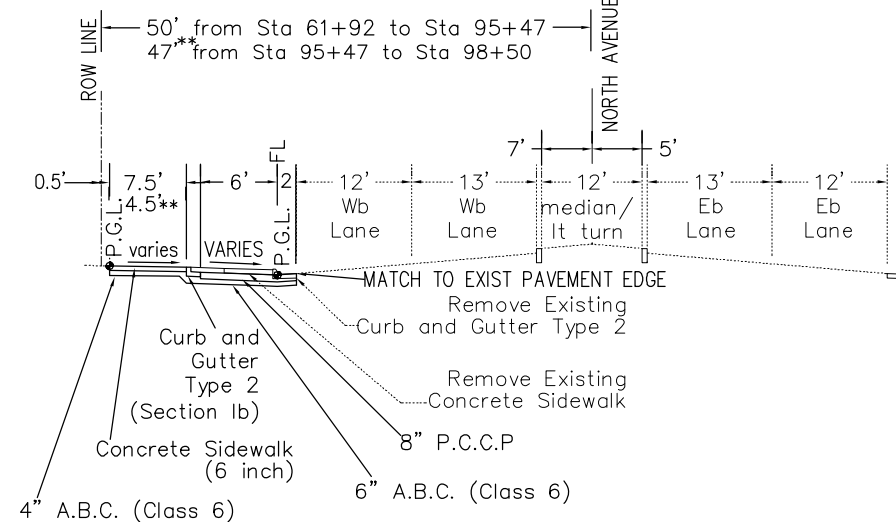


** Dimensions that apply from Sta 95+47 to Sta 98+50 (Reduced ROW Width, 47')

NORTH AVENUE NORTH DRIVEWAYS

Bus Pullout Station Ranges:

- 66+07.42 to 67+07.34
- 94+51.11 to 95+50.54

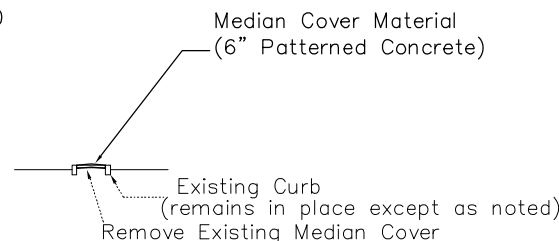


** Dimensions that apply from Sta 95+47 to Sta 98+50 (Reduced ROW Width, 47')

NORTH AVENUE NORTH BUS PULLOUTS

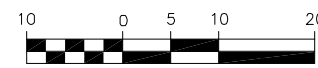
Concrete Median Cover Station Ranges:

- 59+70.44 to 63+66.13
- 66+41.94 to 67+32.16
- 71+06.66 to 71+88.54
- 74+50.32 to 75+30.63
- 77+60.07 to 78+41.99
- 82+28.38 to 83+19.83
- 85+07.47 to 85+66.03
- 88+21.72 to 89+02.35
- 90+98.99 to 91+76.42
- 92+55.51 to 93+24.89
- 97+48.97 to 98+39.64



Typical Treatment For Medians 3 Ft Wide And Less From Back Curb To Back Curb

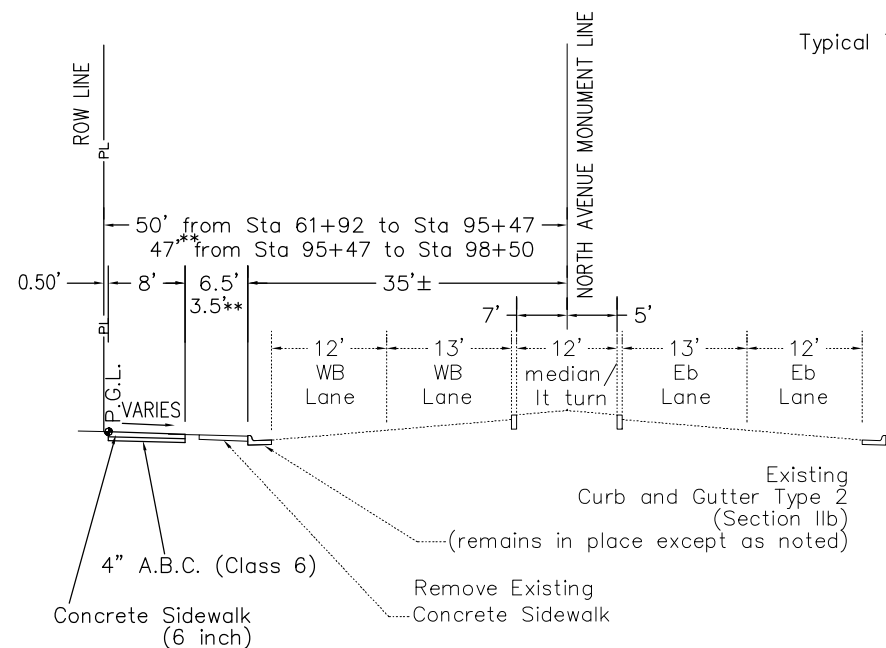
NORTH AVENUE MEDIAN TREATMENT



P.G.L. = PROFILE GRADE LINE
P.C.C.P. = PORTLAND CEMENT CONCRETE PAVEMENT

Sidewalk Station Ranges:

- 62+71.48 to 63+26.64
- 63+79.08 to 64+53.36
- 64+93.61 to 65+44.66
- 65+94.44 to 66+07.42
- 67+07.34 to 67+36.65
- 68+88.69 to 69+04.83
- 70+47.36 to 70+72.57
- 71+19.77 to 71+91.15
- 72+60.81 to 74+94.19
- 76+08.29 to 77+57.52
- 77+99.73 to 78+62.63
- 79+05.02 to 79+38.68
- 82+29.46 to 83+22.23
- 83+93.26 to 84+56.30
- 85+05.63 to 85+54.64
- 85+96.13 to 86+54.11
- 86+94.67 to 87+30.34
- 87+75.00 to 87+92.30
- 88+35.24 to 89+11.08
- 90+41.57 to 90+47.10
- 90+97.87 to 91+32.29
- 92+53.57 to 94+51.11
- 95+50.54 to 95+75.14
- 96+30.52 to 96+70.35
- 97+27.94 to 97+44.85
- 97+85.17 to 98+36.66

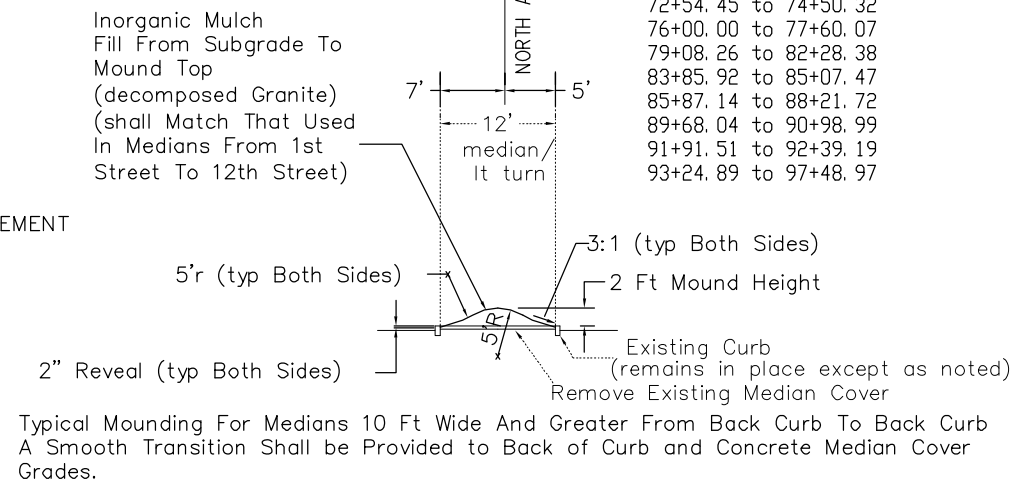


** Dimensions that apply from Sta 95+47 to Sta 98+50 (Reduced ROW Width, 47')

NORTH AVENUE NORTH SIDEWALK

Inorganic Mulch Median Cover Station Ranges:

- 63+66.13 to 66+41.94
- 68+08.81 to 71+06.66
- 72+54.45 to 74+50.32
- 76+00.00 to 77+60.07
- 79+08.26 to 82+28.38
- 83+85.92 to 85+07.47
- 85+87.14 to 88+21.72
- 89+68.04 to 90+98.99
- 91+91.51 to 92+39.19
- 93+24.89 to 97+48.97



Typical Mounding For Medians 10 Ft Wide And Greater From Back Curb To Back Curb A Smooth Transition Shall be Provided to Back of Curb and Concrete Median Cover Grades.

NORTH AVENUE MEDIAN TREATMENT

| |
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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: N.T.S. Vert. Scale: NA |
| Unit Information: CITY GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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Colorado Department of Transportation

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Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

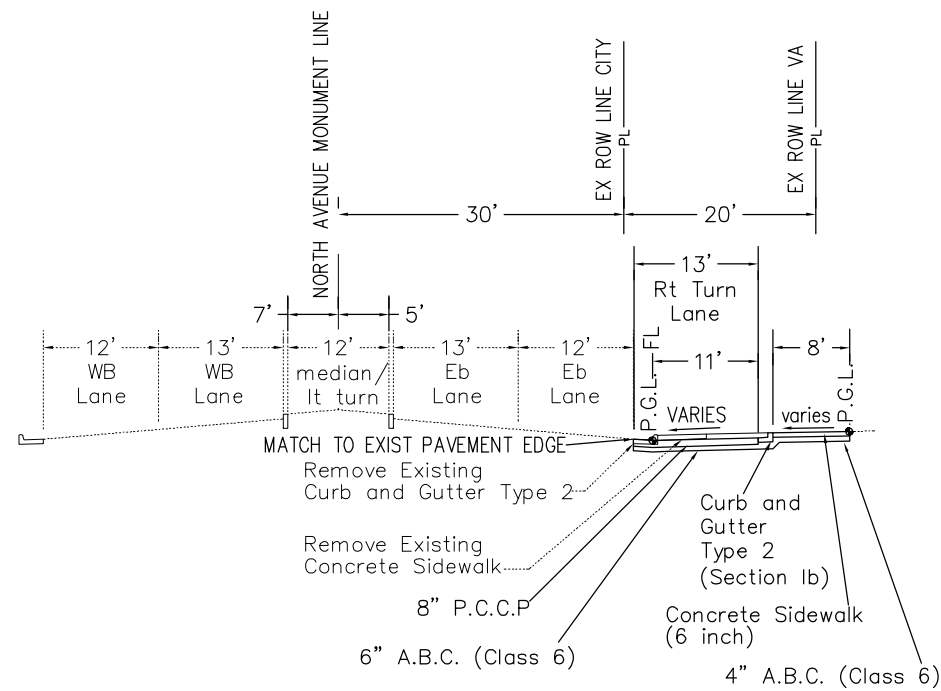
Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| | |
|-----------------------|-----------------------|
| Typical Cross Section | |
| Designer: JOHN SMITH | Structure Numbers |
| Detailer: JOHN SMITH | |
| Sheet Subset: TYP XS | Subset Sheets: 1 of 2 |

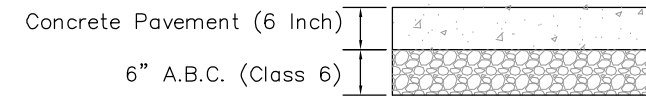
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 3 |

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NORTH AVENUE VA RIGHT TURN LANE

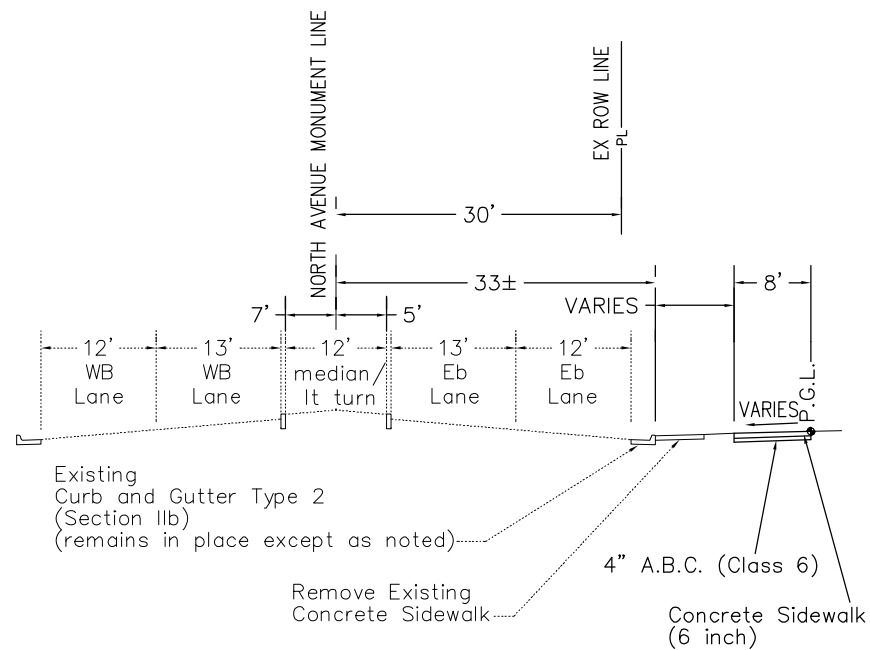
Right Turn Lane
Station Range: 84+25.01 to 85+71.32



DRIVEWAY CONCRETE PAVEMENT DETAIL

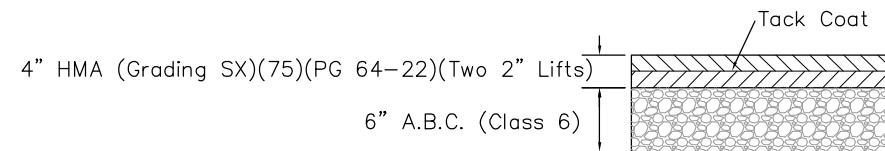
PAID AS 304-06000 & 412-00600

FRONTIER MOTOR LODGE EAST AND WEST DRIVEWAYS



NORTH AVENUE SOUTH SIDEWALK

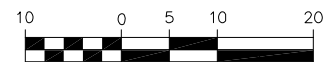
Sidewalk
Station Range:
66+17.90 to 84+25.01



DRIVEWAY ASPHALT PAVEMENT DETAIL

PAID AS 304-06000 & 403-34841

- PAPA JOHN'S
- AQUATIME
- TAN PERFECTION/JOHNSON'S
- KARATE DOJO
- PIZZA HUT
- MONUMENT INN
- OLD GAS STATION WEST OF 18TH
- WRIGLEY FIELD
- VILLAGE INN EAST AND WEST DRIVEWAYS
- ALLEY ACCESS WEST OF WENDY'S
- WENDY'S
- IPSWICH INN
- OLD GAS STATION ZT 23RD



GRAPHIC SCALE

P.G.L. = PROFILE GRADE LINE

P.C.C.P = PORTLAND CEMENT CONCRETE PAVEMENT

| |
|--|
| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: N.T.S. Vert. Scale: NA |
| Unit Information: CITY GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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Colorado Department of Transportation



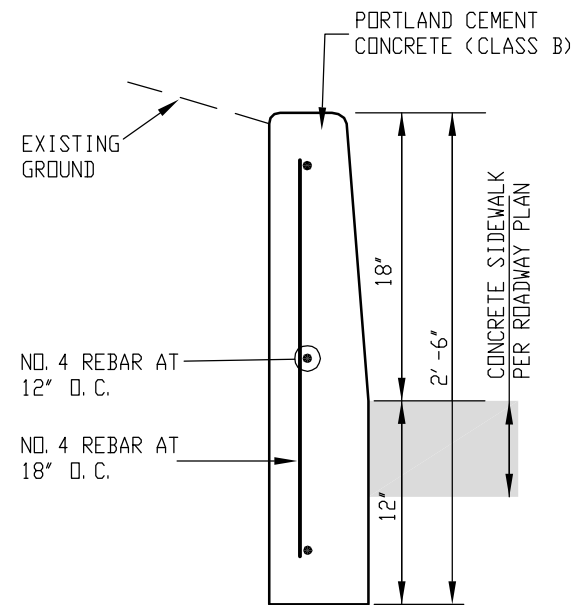
606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3

RBB

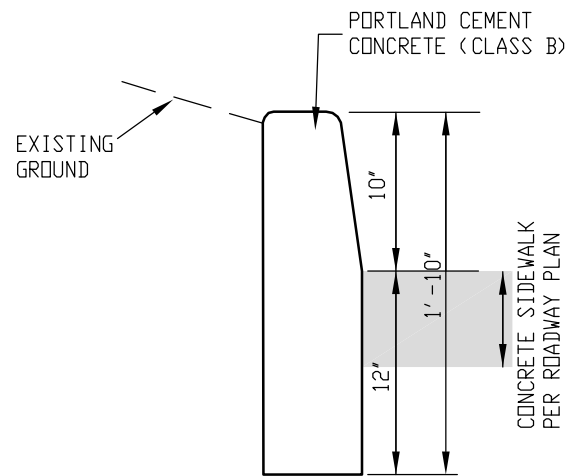
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| As Constructed | Typical Cross Section | | Project No./Code |
| | No Revisions: | | TCSP M555-029 |
| | Revised: | Designer: JOHN SMITH Detailer: JOHN SMITH | 19365 |
| Void: | Sheet Subset: TYP XS | Structure Numbers | Sheet Number 4 |
| | | Subset Sheets: 2 of 2 | |

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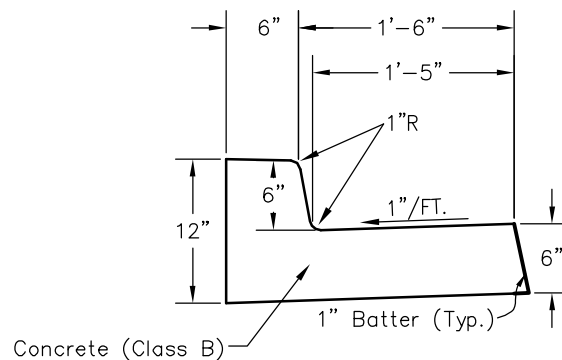
CONCRETE WALL
(CLASS D)
JOHNSON'S HOUSE
OF FLOWER

Station Range: 67+33 to 67+50 Left



CURB TYPE 2
(SPECIAL)
(10" HEIGHT)

Station Range: 62+66 to 62+92 Left
86+50 to 86+63 Left
86+95 to 87+06 Left



CURB AND GUTTER TYPE 2
(SECTION II-B) (SPECIAL)

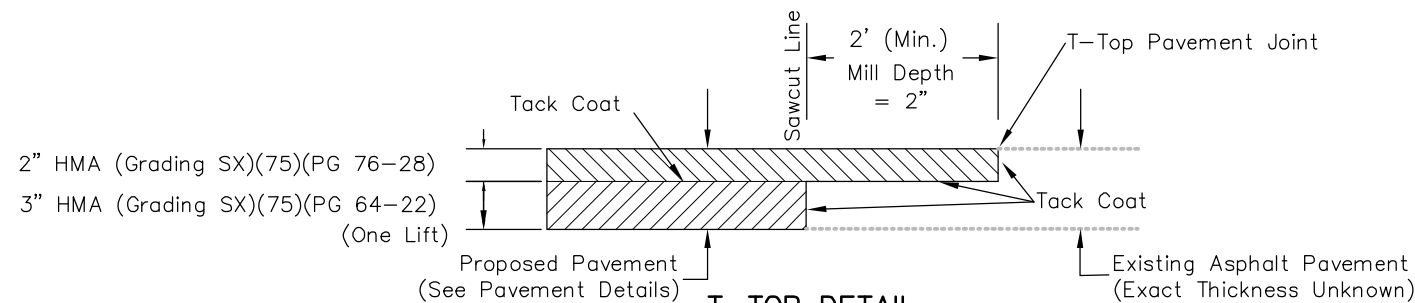
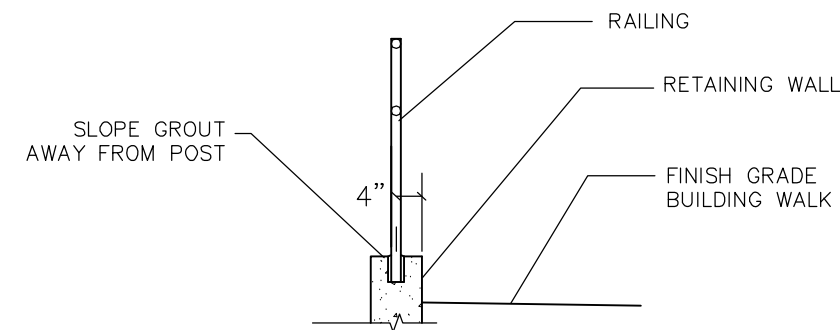
Station Range: 59+43 to 59+70 Left (12th St.)
72+02 to 72+08 Left (15th St.)
72+47 to 72+48 Left (15th St.)
83+39 to 83+40 Left (18th St.)
83+73 to 83+74 Left (18th St.)
91+94 to 91+99 Left (21st St.)
92+33 to 92+38 Left (21st St.)
98+58 to 98+61 Left (23rd St.)

Note:

- All Curb and Gutter shall be monolithic and shall not be Key-Way Type 4 Curbs.

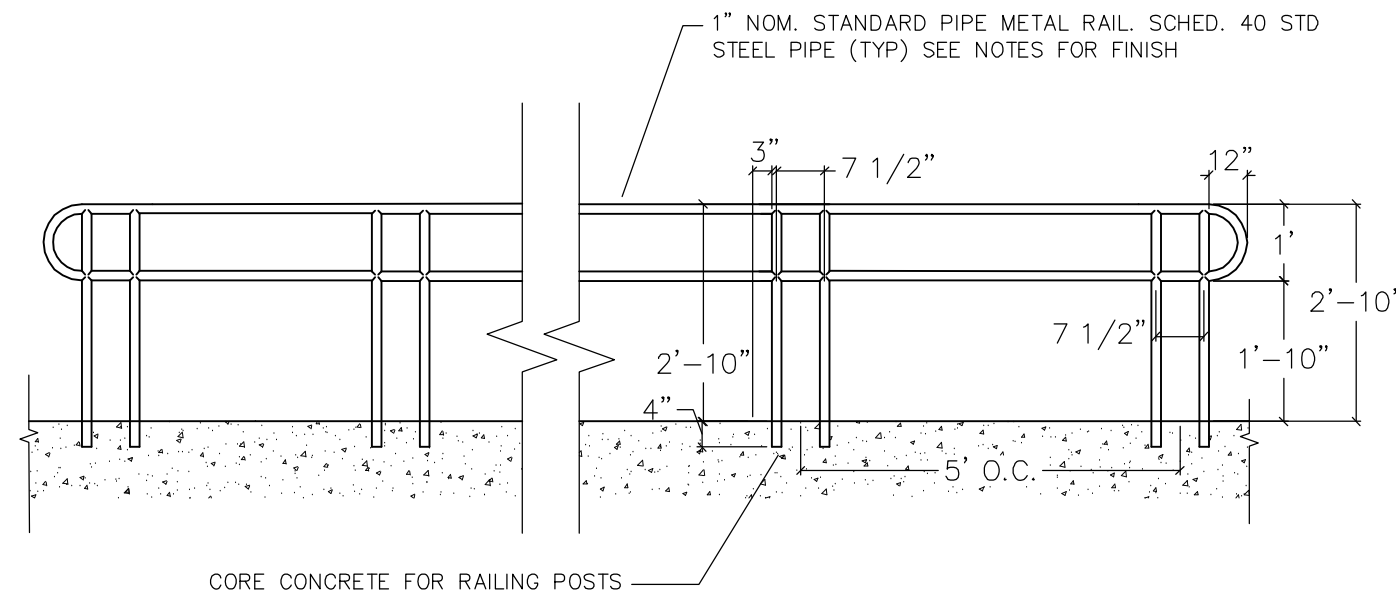
NOTES:

1. PIPES SHALL BE ALUMINUM AND MEET ASTM B241 OR B429 ALLOW 6063-T6 SCHEDULE 40 (STD. PIPE)
2. ALL ALUMINUM PARTS SHALL BE GIVEN A BRONZE ANOTIC COATING AT LEAST .0006 INCH THICK AND HOT WATER SEALED AND SHALL HAVE A UNIFORM FINISH.
3. ALL HANDRAILS SHALL EXTEND AT LEAST 12 INCHES BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE GROUND SURFACE
4. RAILING COLOR TO BE COORDINATED WITH PROPERTY OWNER. ALL SURFACES TO BE PAINTED FOLLOWING INSTALLATION.



GENERAL NOTES

NOTE
THE MINIMUM T-TOP ASPHALT THICKNESS SHALL BE 2-INCH AND THE MINIMUM WIDTH SHALL BE 2-FEET.

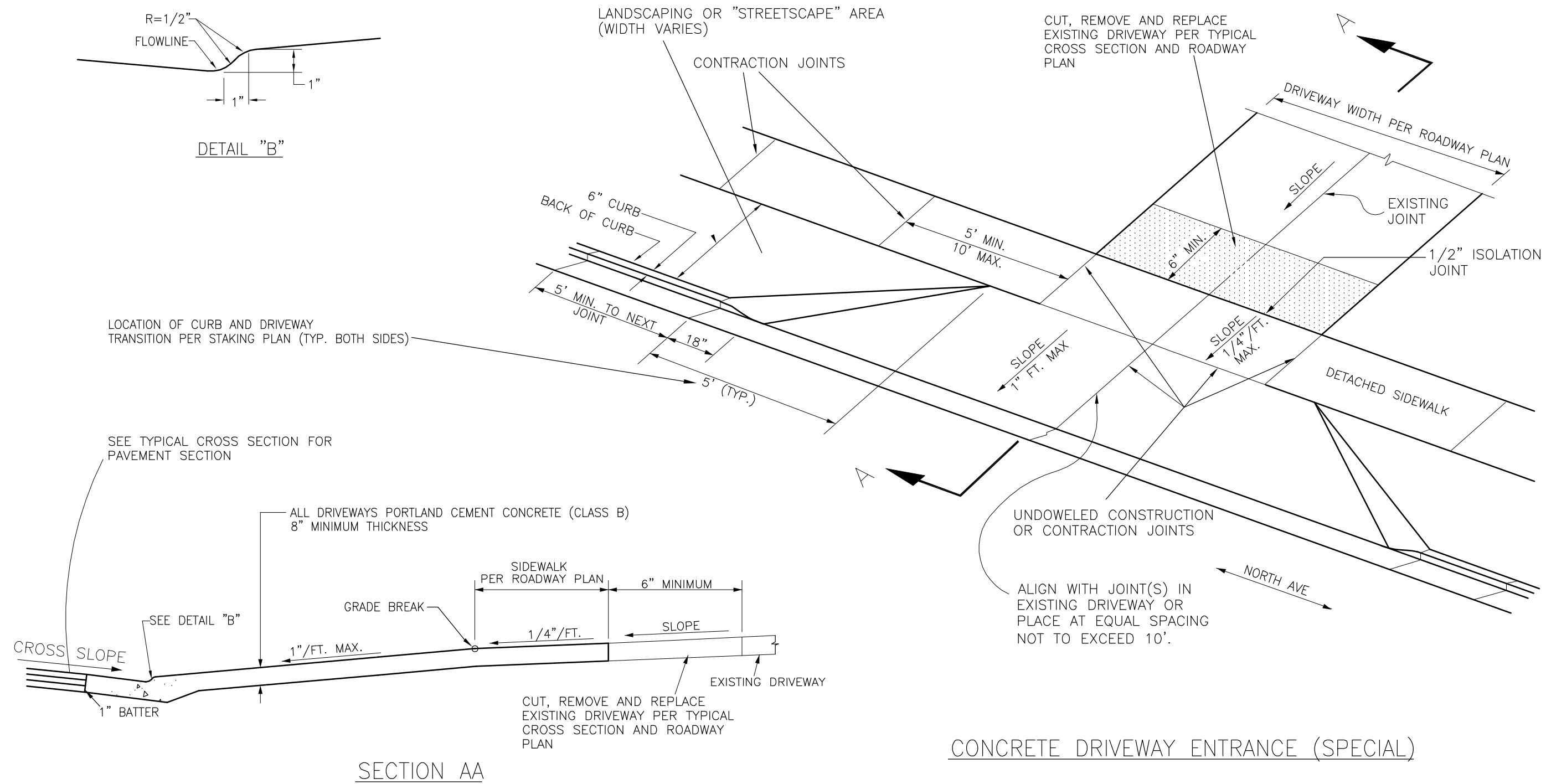


PEDESTRIAN RAILING DETAIL

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| Print Date: © left | 0000 | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | ROADWAY DETAILS | | | Project No./Code |
| File Name: Roadway Details | | Date: | Comments | Init. | | No Revisions: | Designer: John C Smith | | | TCSP M555-029 |
| Horiz. Scale: AS SHOWN AS SHOWN | | | | | | Revised: | Detailer: John C Smith | | | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Sheet Subset: R DET | | | Sheet Number 5 |
| | | | | | | Structure Numbers | | | 1 OF 2 | |

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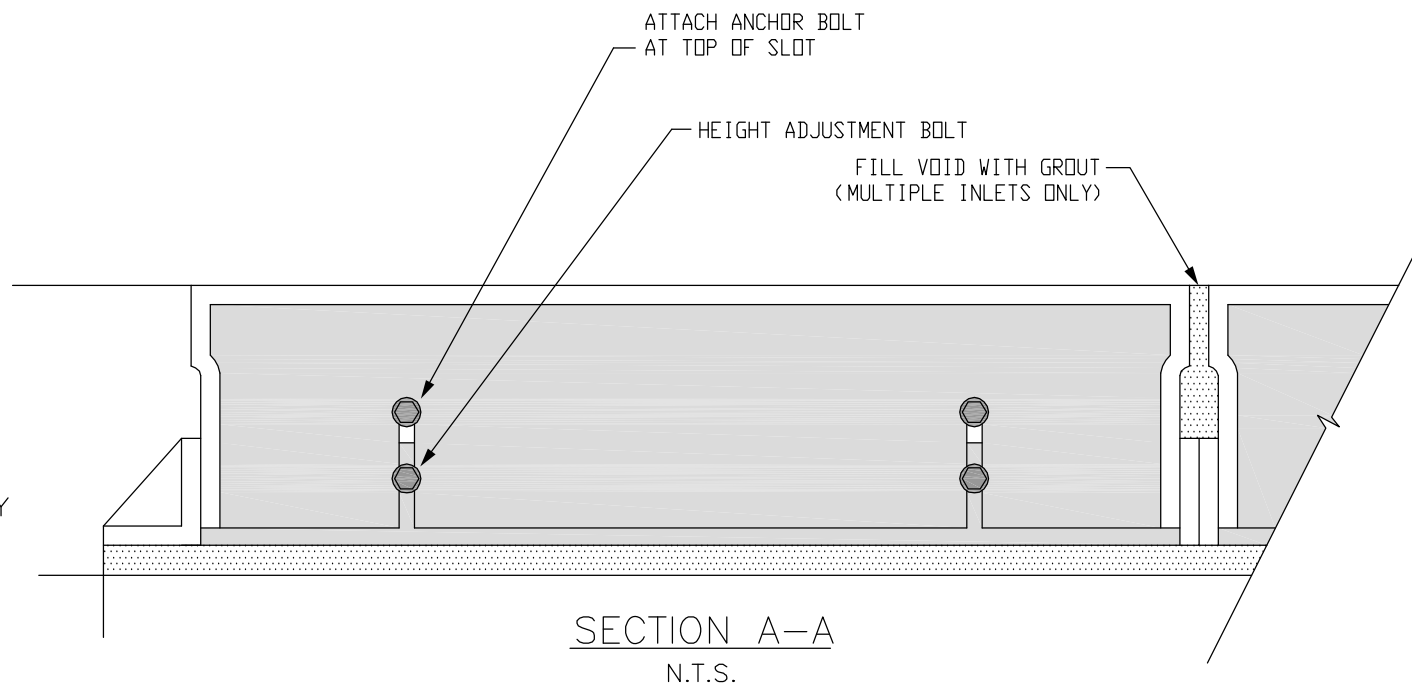
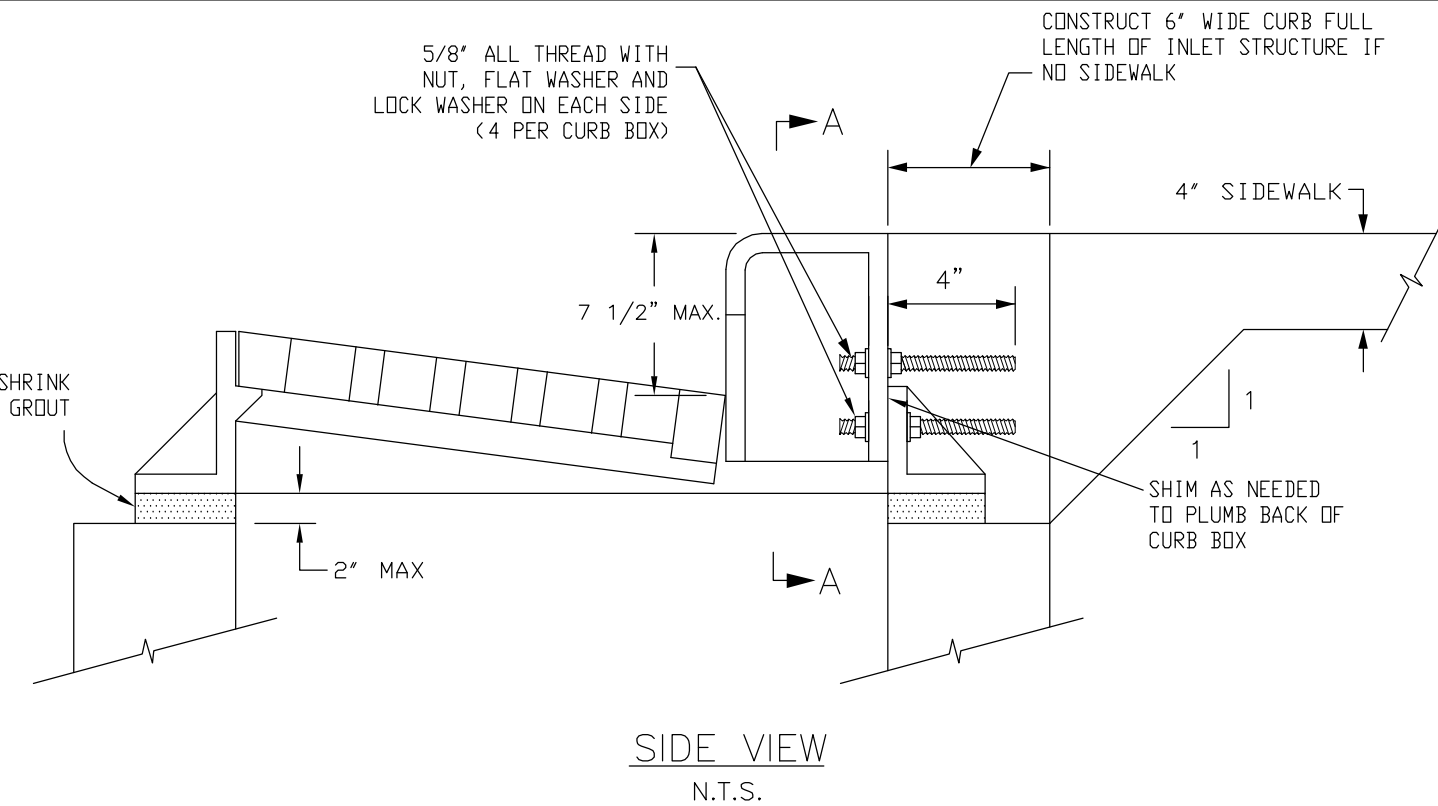


CONCRETE DRIVEWAY ENTRANCE (SPECIAL)

| | | | | | | | | | | |
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| Print Date: © left | | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | ROADWAY DETAILS | | | Project No./Code |
| File Name: Roadway Details | | Date: | Comments | Init. | | No Revisions: | | | | TCSP M555-029 |
| Horiz. Scale: AS SHOWN AS SHOWN | | | | | | Revised: | Designer: John C Smith | Structure Numbers | - | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John C Smith | Subset Sheets: | 2 OF 2 | Sheet Number 6 |

APPROVED STORM DRAIN INLETS

| TYPE | GRATE AND FRAME DESIGNATION | CASTINGS GRATE TYPE | BOX DIM. INSIDE |
|---|-----------------------------------|---------------------|---------------------------|
| SINGLE GRATE WITH CURB VERTICAL OPENING | CASTINGS IFG-3246-() C.I. | R,L,V,D | 24 X 36" |
| DOUBLE GRATE WITH CURB OPENING | CASTINGS IFG-3246-() C.I. DOUBLE | R,L,V,D | 24" X 73" NONSHRINK GROUT |
| TRIPLE GRATE WITH CURB OPENING | CASTINGS IFG-3246-() C.I. TRIPLE | R,L,V,D | 24" X 110" |
| AREA INLET | CASTINGS FG-1927-CI | FLAT OR CONCAVE | 20" X 30" |
| | CASTINGS NO. 13 UR16 | | 24" X 36" |
| INLET WITH DRIVE OVER CURB BOX | CASTINGS IFG-3246() DOC. I: | R,L,V,D | 24 X 36" |
| STANDARD MANHOLE GRATE | CASTINGS MH-24-GBP CI | | |
| C.D.O.T. TYPE R | SEE STANDARD M-604-12 | | |
| C.D.O.T. TYPE 13 | SEE STANDARD M-604-13 | | |

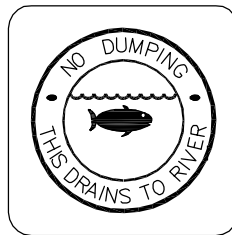


INLET CURB BOX DETAIL

SHOW GRATE TYPE WHERE INDICATED BY ()

NOTE: USE TYPE R OR TYPE D GRATE WHERE INLET IS LOCATED IN SUMP CONDITION. USE TYPE V OR TYPE L GRATE WHERE GUTTER FLOW IS FROM ONE DIRECTION ONLY.

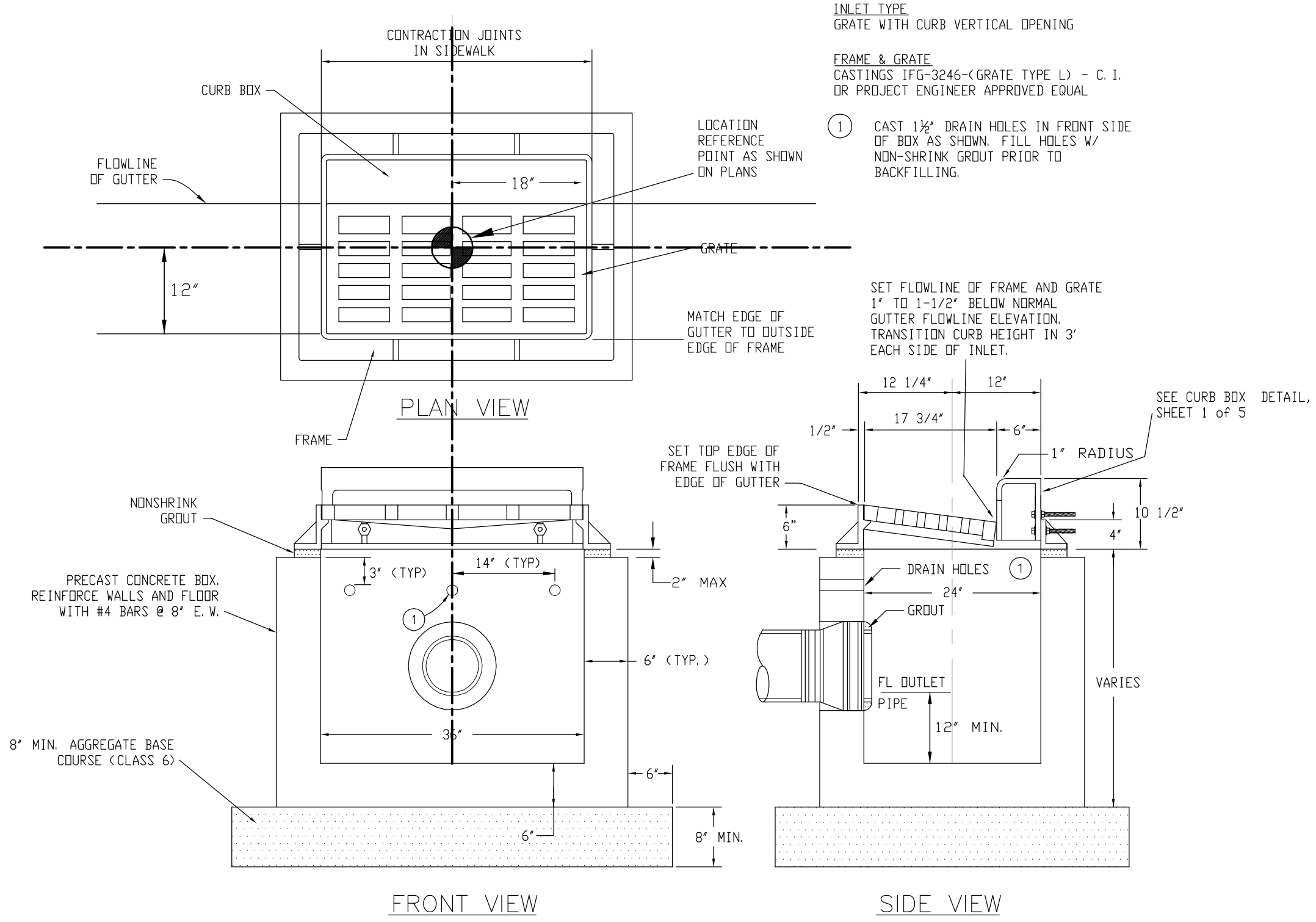
GRATES AND FRAMES FROM OTHER FOUNDARIES MAY BE USED WHEN APPROVED BY THE CITY ENGINEER.



PLACARD TO BE PLACED ON EACH STORM SEWER OPENING INSTALLED WITHIN THE SYSTEM SERVED BY THE CITY OF GRAND JUNCTION OBTAIN FROM THE CITY OF GRAND JUNCTION INSPECTION STAFF @ (970)244-1577

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| Print Date: © LEFT | Sheet Revisions | | | Colorado Department of Transportation | | | As Constructed | | Drainage Details Inlet Curb Box Detail | | Project No./Code | | | | |
| File Name: Drainage Details | | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | | | No Revisions: | | Designer: JOHN SMITH Detailer: JOHN SMITH Sheet Subset: D DETAIL | | TCSP M555-029 | | | |
| Horiz. Scale: NA | | | | | | | | Revised: | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | Void: | | | | Subset Sheets: | | 1 of 5 | |
| GRAND JUNCTION COLORADO PUBLIC WORKS UTILITIES & PLANNING | | | | | | | | | | | | | | | |



INLET TYPE
GRATE WITH CURB VERTICAL OPENING

FRAME & GRATE
CASTINGS IFG-3246-(GRATE TYPE L) - C. I.
OR PROJECT ENGINEER APPROVED EQUAL

① CAST 1 1/2" DRAIN HOLES IN FRONT SIDE OF BOX AS SHOWN. FILL HOLES W/ NON-SHRINK GROUT PRIOR TO BACKFILLING.

SET FLOWLINE OF FRAME AND GRATE 1" TO 1-1/2" BELOW NORMAL GUTTER FLOWLINE ELEVATION. TRANSITION CURB HEIGHT IN 3' EACH SIDE OF INLET.

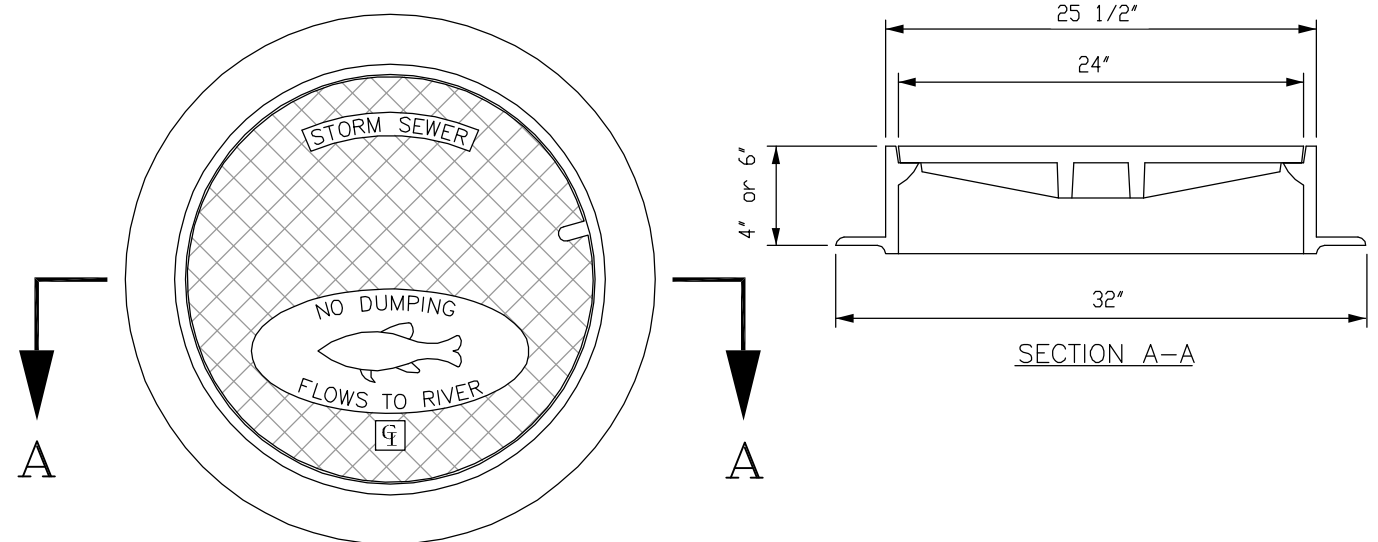
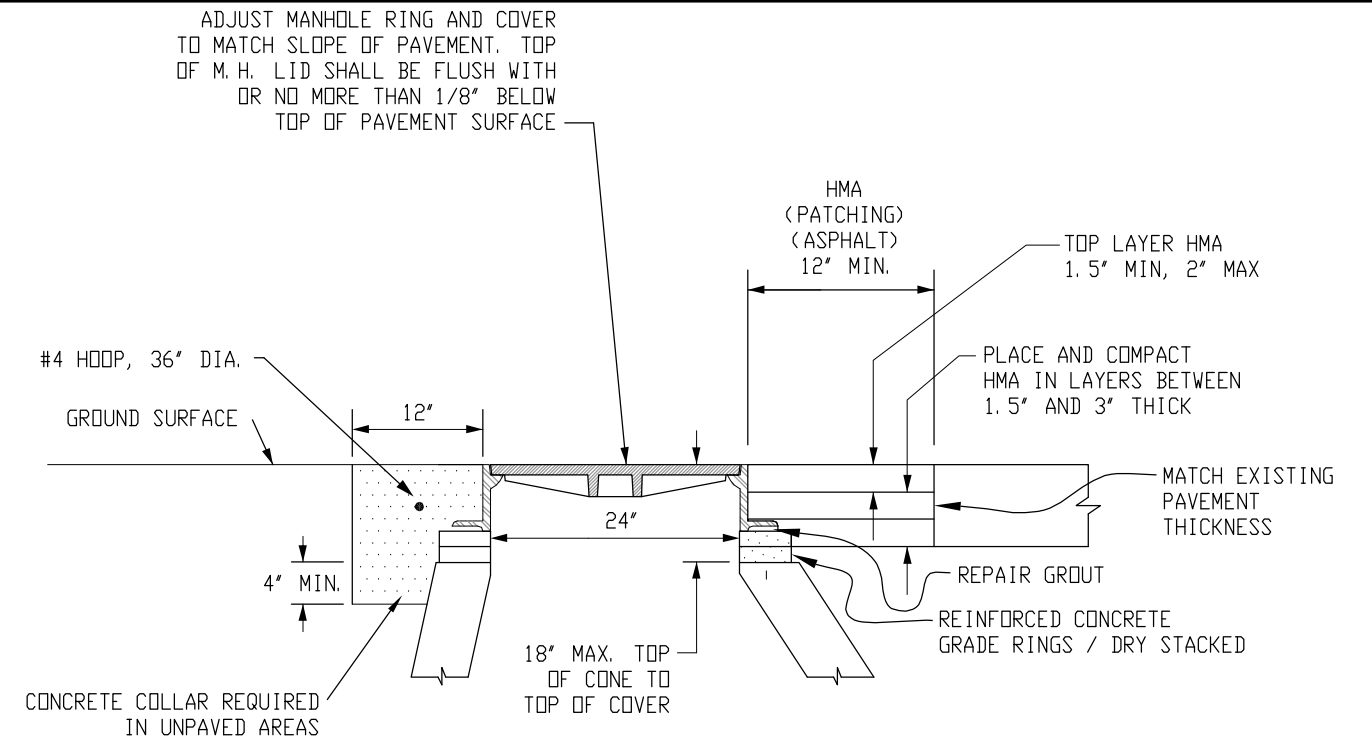
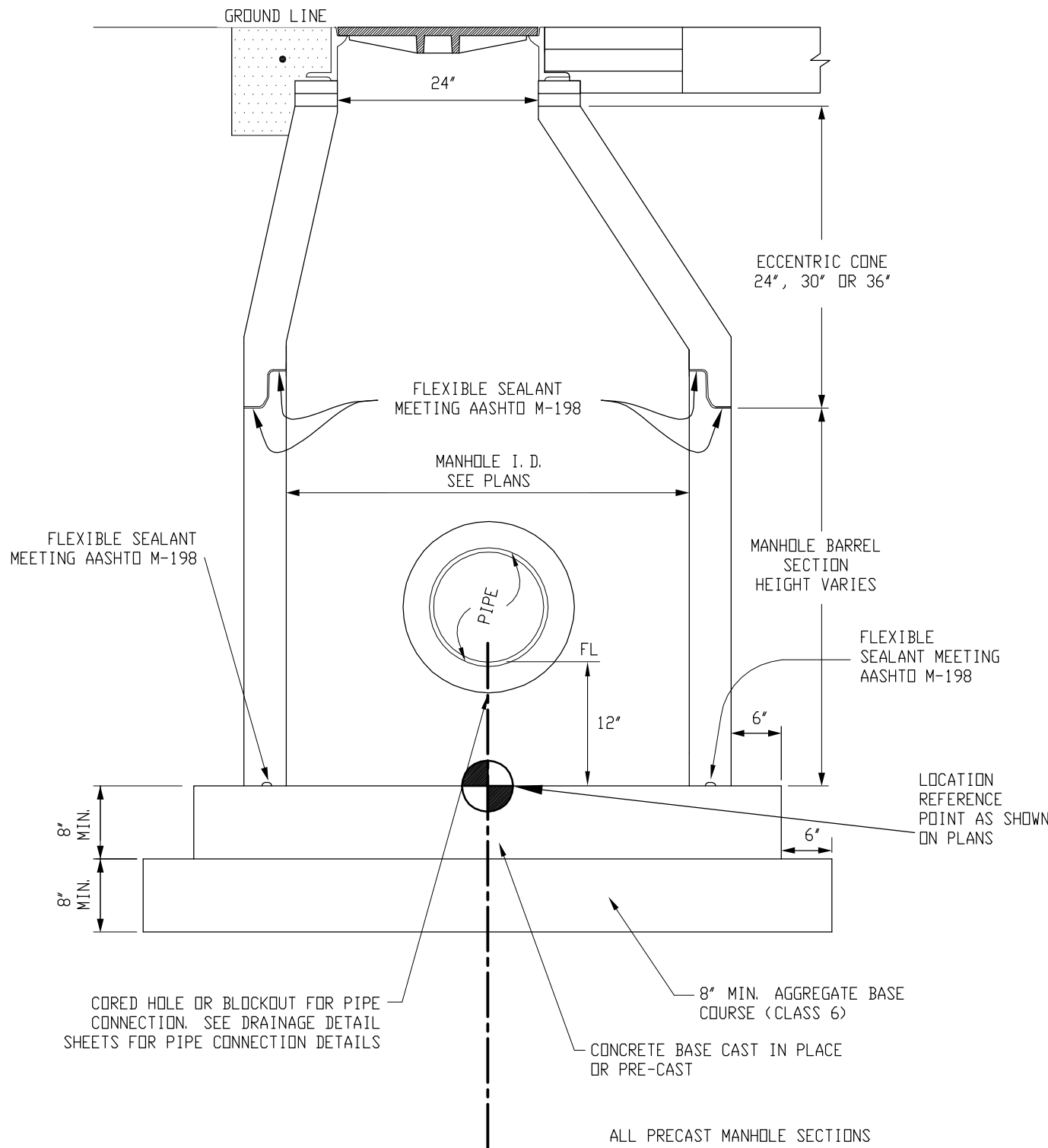
SEE CURB BOX DETAIL, SHEET 1 of 5

INLET SPECIAL

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| File Name: Drainage Details | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | | No Revisions: | | Designer: JOHN SMITH Detailer: JOHN SMITH | | TCSP M555-029 | |
| Horiz. Scale: NA Vert. Scale: NA | | | | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Region 3 | | Void: | | Sheet Subset: D DETAIL | |
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STANDARD M. H. RING & COVER
(CASTINGS INC. 24-B-CI (FISH)
OR PROJECT ENGINEER APPROVED EQUAL

NOTE:
WHERE A GRATE TYPE COVER IS
REQUIRED USE CASTINGS MH-24-GBP CI
OR PROJECT ENGINEER APPROVED EQUAL

MANHOLE SLAB BASE RING AND COVER

ALL PRECAST MANHOLE SECTIONS
SHALL CONFORM TO ASTM C-478 OR
AASHTO M-199.

STEPS REQUIRED IN STORM SEWER
MANHOLES.

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| Horiz. Scale: NA Vert. Scale: NA | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | |
| Grand Junction COLORADO PUBLIC WORKS UTILITIES & PLANNING | |

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Colorado Department of Transportation

EDOT

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Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

CO

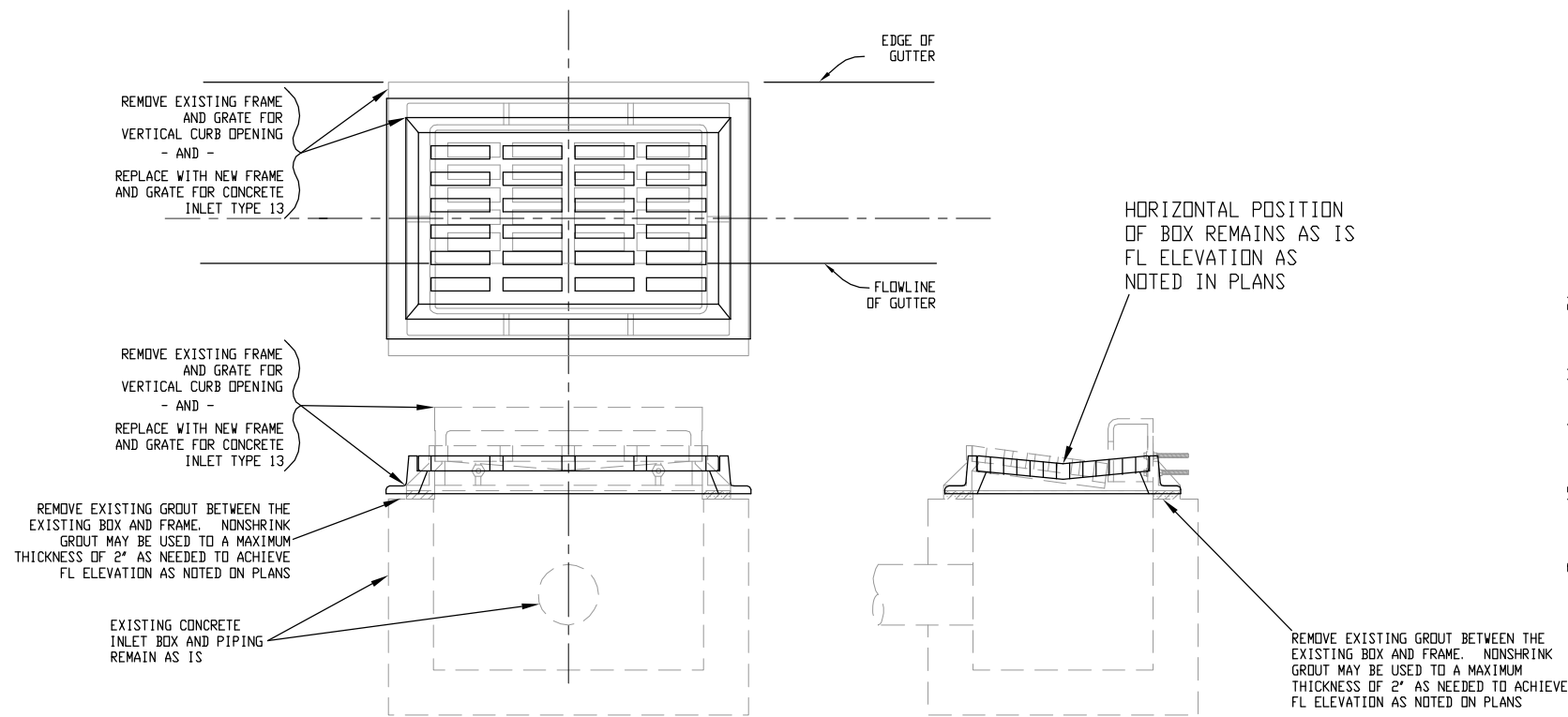
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|---------------------------------------|----------------------|
| Drainage Details Manhole Slab Base | |
| Designer: JOHN SMITH | Structure Numbers: - |
| Detailer: JOHN SMITH | Subset Sheets: - |
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 9 |

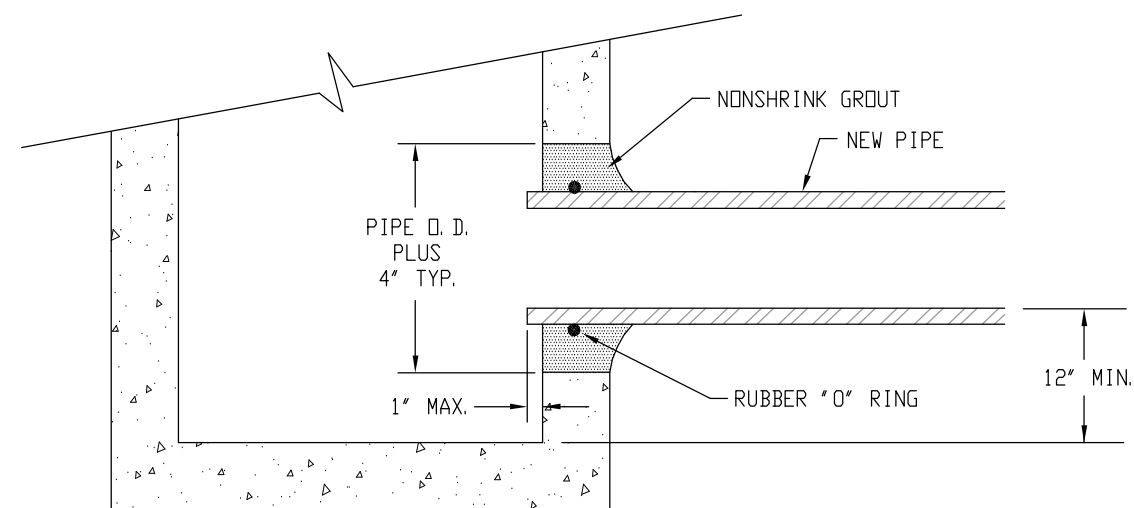


MODIFY INLET DETAIL

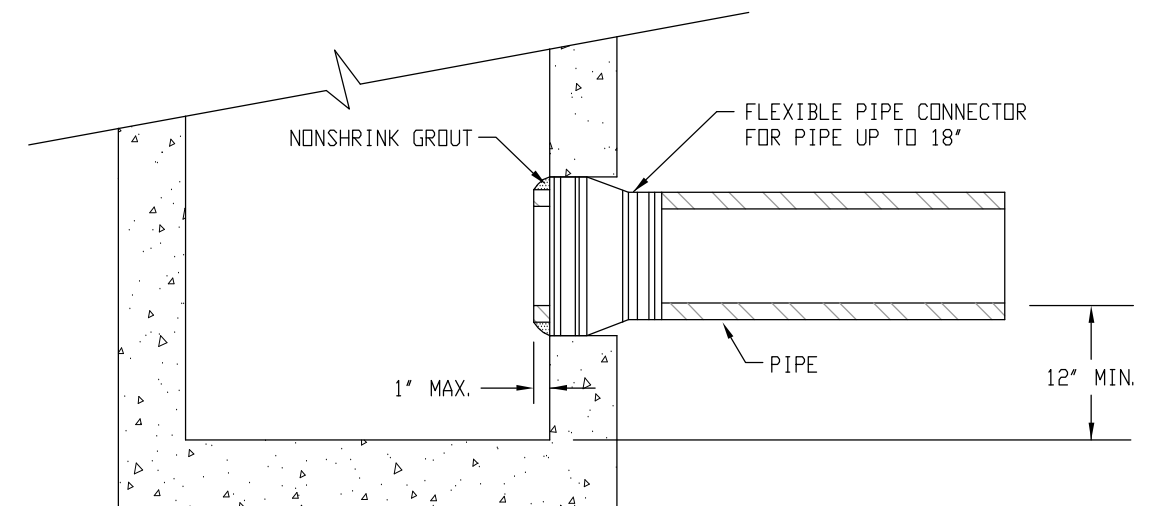
STA 62+64, 33' LEFT,
 STA 69+12, 33' LEFT, AND
 STA 85+65, 31' RIGHT,

GENERAL NOTES

1. BACKFILL AROUND MANHOLES, INLET BOXES, AND OTHER STRUCTURES SHALL BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 95% AASHTO T-180.
2. ALL BACKFILL MATERIAL SHALL BE UNIFORMLY ADJUSTED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT AND COMPACTION.
3. ALL PORTLAND CEMENT CONCRETE SHALL BE CLASS "B". (SECTION 601.02).
4. ANY EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
5. SEE APPROVED CONSTRUCTION DRAWINGS FOR ALL LOCATIONS, GRADES AND ELEVATIONS OF ALL DRAINAGE IMPROVEMENTS.
6. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS.






GROUTED PIPE CONNECTION
 (FOR CONNECTIONS TO EXISTING STRUCTURES)

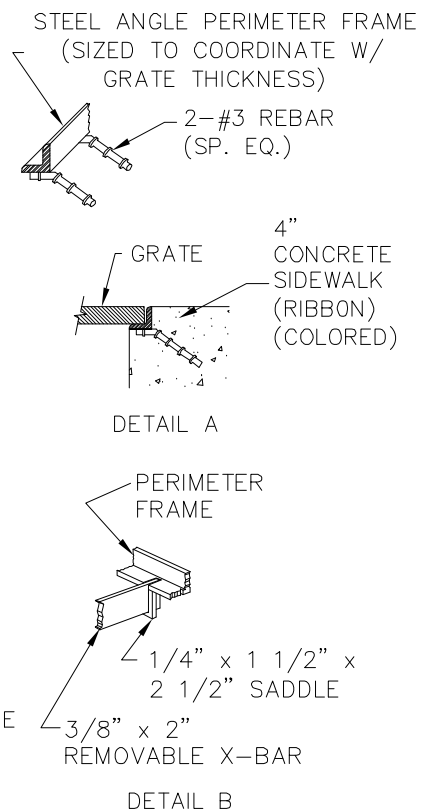
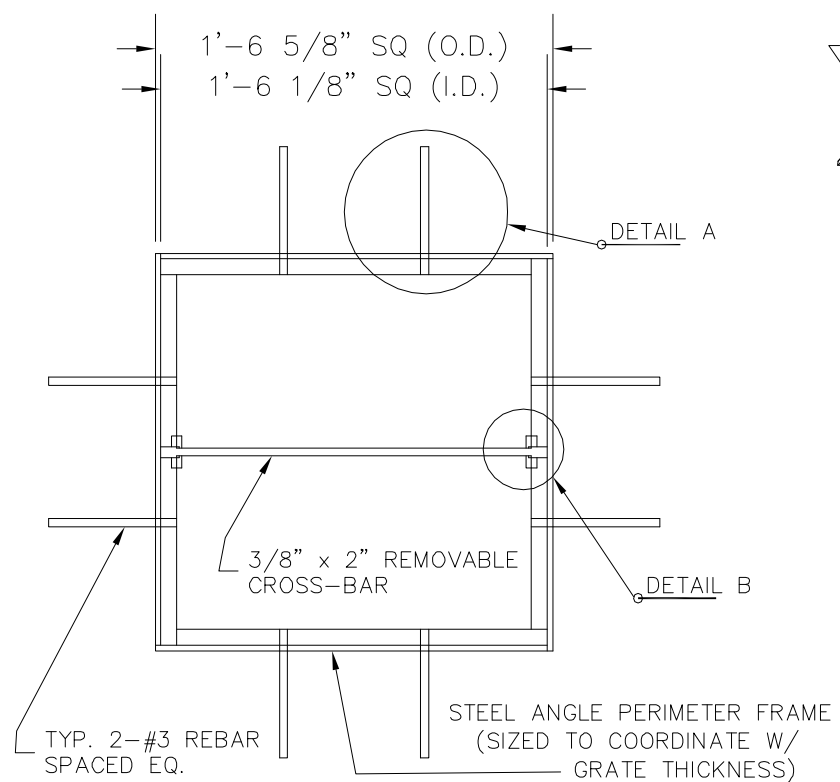


PVC PIPE CONNECTION

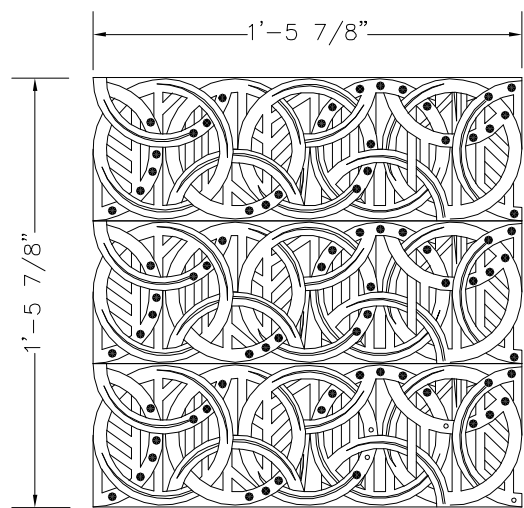
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| Print Date: © LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Drainage Details Pipe Connections | | Project No./Code | | | |
| File Name: Drainage Details | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | | No Revisions: | | Designer: JOHN SMITH Detailer: JOHN SMITH Sheet Subset: D DETAIL | | TCSP M555-029 | | | |
| Horiz. Scale: NA Vert. Scale: NA | | | | | | Revised: | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | | | | Subset Sheets: 4 of 5 | | Sheet Number 10 | |
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GRATE FRAME FOR Inlet Type 13 (5 Foot) (Special)



18" SQ. DRAIN COVER

GRATE FOR Inlet Type 13 (5 Foot) (Special)

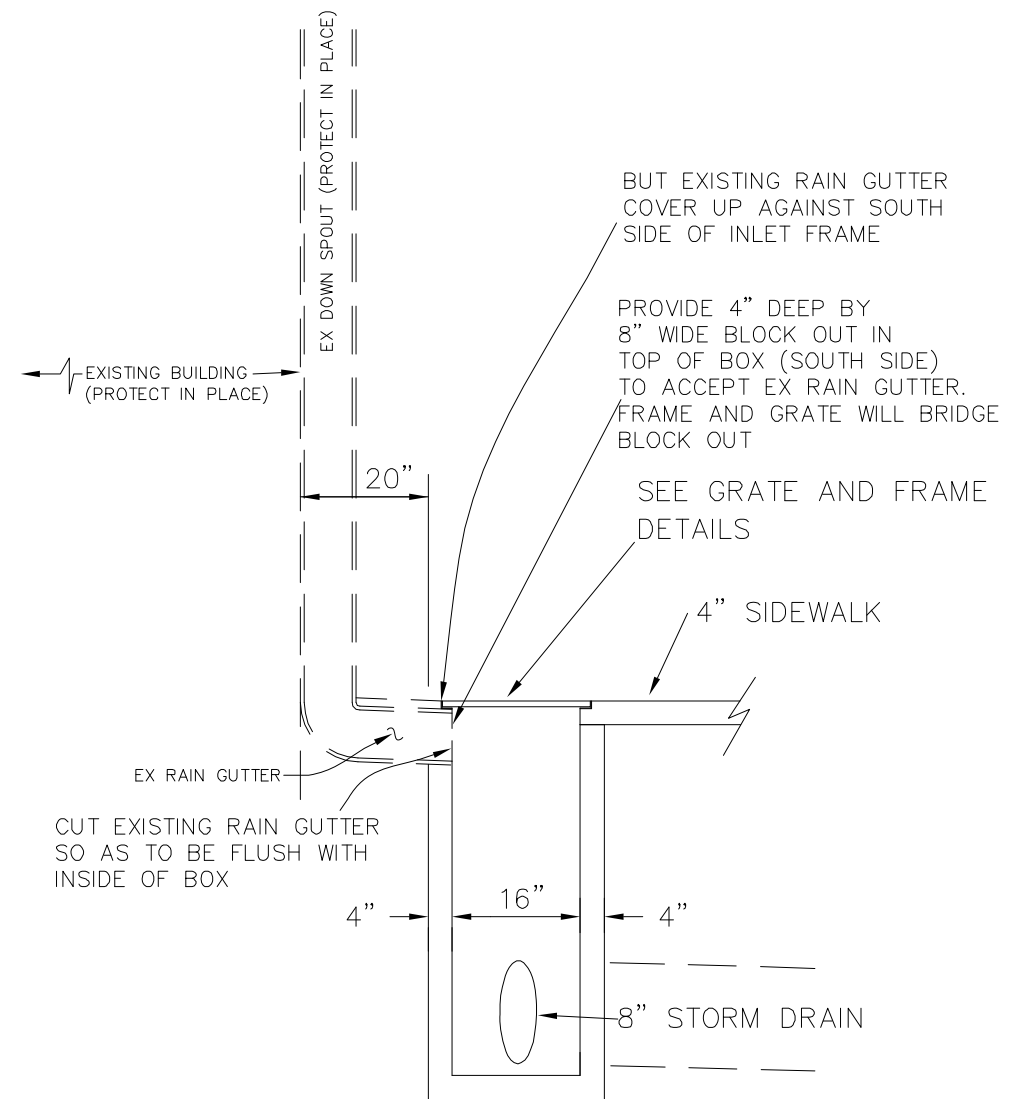
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NOTE

1. URBAN ACCESSORIES 18 INCH SQ. MEDIUM DUTY "S" FRAME OR APPROVED EQUAL.
2. URBAN ACCESSORIES OT TITLE-24, 18 INCH SQ. DRAIN COVER OR APPROVED EQUAL.

NOTES:

1. DUCTILE IRON/ NATURAL FINISH
2. CAST IN ONE PIECE, 3/4" THICK
3. NO OPENINGS GREATER THAN 3/8"




Inlet Type 13 (5 Foot) (Special)
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| File Name: Drainage Details | |
| Horiz. Scale: NA Vert. Scale: NA | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | |
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Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

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| Drainage Details | |
| Inlet Type 13 (5 Foot) (Special) | |
| Designer: JOHN SMITH | Structure Numbers: - |
| Detailer: JOHN SMITH | Subset Sheets: - |
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 11 |

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CONSTRUCTION


1. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE(I) COPY OF THE AWARD SET PLANS AND SPECIFICATIONS.
2. THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED AUGUST 3, 2015, PROJECT SPECIAL PROVISIONS, PROJECT SPECIAL CONDITIONS, STANDARD SPECIAL PROVISIONS AND CDOT M AND S STANDARDS DATED AUGUST 13, 2015 CONTROL CONSTRUCTION OF THIS PROJECT.
3. THIS PROJECT IS DESIGNATED AS NON-SIGNIFICANT.
4. THE CONTRACTOR SHALL:
 - A. NOTIFY CITY OF GRAND JUNCTION WATER AND SEWER, AND ALL CUSTOMERS AFFECTED BY OUTAGE OF WATER DURING CONSTRUCTION AT LEAST 48 HOURS PRIOR TO DISRUPTION OF SERVICE.
 - B. NOTIFY GRAND JUNCTION POLICE DEPARTMENT, GRAND JUNCTION FIRE DEPARTMENT, GRAND JUNCTION DEPARTMENT OF PUBLIC WORKS, MESA COUNTY SHERIFF'S OFFICE, MESA COUNTY PUBLIC WORKS, COLORADO STATE PATROL, UTE WATER CONSERVANCY DISTRICT, UNITED STATES POSTAL SERVICE, COLORADO REGIONAL CENTER, GRAND VALLEY TRANSIT, AND FIRST STUDENT BUS COMPANY OF ALL STREET CLOSINGS AND EXISTING FIRE HYDRANTS TO BE TAKEN OUT OF SERVICE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION AND UPDATED EVERY TWO WEEKS.
5. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT HIS OWN EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PUBLIC AND PRIVATE ACCESS DRIVES FROM THE POINT OF DISRUPTION TO THE TRAVELED WAY. THE CONTRACTOR WILL NOT BE ALLOWED TO SHUT OFF ACCESS TO ANY PROPERTY AND MUST COORDINATE HIS WORK WITH THE PROPERTY OWNERS.
7. A 5-FOOT (10: 1 VERTICAL) TAPER SHALL BE USED ON ALL EXPOSED END OF CURB.
8. WATER SOURCE USED FOR MOISTURE DENSITY CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE FREE OF EXCESSIVE SEDIMENTS OR OTHER CONTAMINANTS THAT MAY BE DETRIMENTAL TO EMBANKMENTS, SUB-BASES, AND BASE COURSE MATERIAL.
9. DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS WITHIN THE EASEMENT OR RIGHT OF WAY LIMITS.
10. SMOOTHNESS CATEGORY FOR CONCRETE PAVEMENT WILL BE HRI CATEGORY I.
11. PROOFROLLING WILL BE REQUIRED FOR THIS PROJECT AND WILL BE INCLUDED IN THE COST OF WORK.
12. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FEET OF THE EDGE OF PAVEMENT FOR NORTH AVENUE.
13. SULFATE RESISTANT CONCRETE FOR THIS PROJECT SHALL BE CLASS 2.
14. ALL SLOPES WILL BE ROUGHENED AS DIRECTED BY THE ENGINEER. COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO THE EARTHWORK PAY ITEM.
15. TOPSOIL SHALL NOT BE IMPORTED TO THE SITE. EXISTING TOPSOIL SHALL BE STOCKPILED ON SITE AND SPREAD DURING GRADING AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL BE REQUIRED TO FIELD VERIFY LENGTHS, DIAMETERS, ELEVATIONS, LOCATIONS, AND THICKNESS BEFORE ORDERING MATERIALS.
17. NO VERTICAL SLOPES SHALL BE LEFT OVERNIGHT UNPROTECTED. ALL UNPROTECTED VERTICAL SLOPES SHALL BE FLATTENED TO A 4:1 SIDE SLOPE PRIOR TO THE END OF THE WORK DAY, OR AS DIRECTED BY THE ENGINEER.
18. DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL KEEP ALL EQUIPMENT, WORKERS AND MATERIALS WITHIN THE EXISTING RIGHT-OF-WAY OR TEMPORARY CONSTRUCTION EASEMENTS ACQUIRED FOR THIS PROJECT. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY AND/OR TEMPORARY CONSTRUCTION EASEMENTS ACQUIRED FOR THIS PROJECT. AT LOCATIONS WHERE WORK IS REQUIRED WITHIN CLOSE PROXIMITY TO THE RIGHT-OF-WAY BOUNDARIES AND/OR TEMPORARY CONSTRUCTION EASEMENT BOUNDARIES, THE CONTRACTOR SHALL PERFORM SUCH WORK FROM THE PROJECT SIDE OF THE RIGHT-OF-WAY AND/OR THE PROJECT SIDE OF THE TEMPORARY CONSTRUCTION EASEMENTS AND NOT TRESPASS ONTO PRIVATE PROPERTY.

ESTIMATED QUANTITIES

1. FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
 - A. HOT MIX ASPHALT (GRADING SX) AT 110 LBS. PER SQ. YD./INCH.
 - B. DILUTED EMULSIFIED ASPHALT (SLOW SETTING) FOR TACK COAT AT 0.10 GAL. PER SQ.YD. CONSISTING OF ONE PART EMULSIFIED ASPHALT (SLOW SETTING) AND ONE PART WATER.
 - C. RATES OF APPLICATION SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.
2. PLAN QUANTITIES ESTIMATING BASIS:
 - A. AGGREGATE BASE COURSE (CLASS 3) AT 133 LBS. PER CU. FT.
 - B. AGGREGATE BASE COURSE (CLASS 6) AT 133 LBS. PER CU. FT.
 - C. AGGREGATE BASE COURSE (CLASS 7) (SPECIAL) AT 133 LBS. PER CU. FT.
3. IT IS ESTIMATED THAT THE FOLLOWING SHALL BE REQUIRED FOR THIS PROJECT, AS DIRECTED BY THE ENGINEER FOR MISCELLANEOUS WORK:
 - (201-00000) CLEARING AND GRUBBING - 0.90 AC
 - (203-01597) POTHOLING - 25 HOURS
 - (411-10255) EMULSIFIED ASPHALT - 55 GALLONS
 - (620-00020) SANITARY FACILITY - 1 EA
 - (625-00000) CONSTRUCTION SURVEYING - 1 LS
 - (626-00000) MOBILIZATION - 1 LS
 - (630) PUBLIC INFORMATION SERVICES - 1 LS
4. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL LOGS, LIMBS, BRUSH, BUSHES, GROUND COVER, SOD, LANDSCAPING ITEMS, AND TRASH, ETC. TO AN OFF SITE LOCATION. THIS WORK WILL BE PAID FOR AS 201-00000 CLEARING AND GRUBBING, 1 LS.
5. AGGREGATE BASE COURSE (CL. 6) SHOWN TO BE PLACED UNDER CONCRETE CURBS, GUTTERS, SIDEWALKS, DRAINAGE PANS, INTERSECTION FILLETS, DRIVEWAY SECTIONS, AND CURB RAMPS IS DESIGNATED AS "AGGREGATE BASE COURSE (CLASS 6)" AND WILL BE MEASURED AND PAID FOR SEPARATELY.
6. ASPHALT MILLINGS MAY BE SUBSTITUTED FOR ABC CLASS 6 AS APPROVED BY CDOT. ANY USE OF ASPHALT MILLINGS THAT DOES NOT MEET THE APPROVED REQUIREMENTS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

ENVIRONMENTAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DEWATERING IF NEEDED AT NO ADDITIONAL COST TO THE PROJECT. DEWATERING METHODS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION DEWATERING PERMIT FOR ALL CONSTRUCTION ACTIVITIES.
2. SEE STORMWATER MANAGEMENT PLAN FOR EROSION CONTROL MEASURES TO BE USED DURING CONSTRUCTION. WHENEVER SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD, THE ROAD SHALL BE CLEANED AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL NOT BE ALLOWED. STREET SWEEPING METHODS/OPERATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF SWEEPING OPERATIONS. OPEN STYLE MECHANICAL BROOM WILL NOT BE ALLOWED FOR STREET SWEEPING.
3. ALL STAGING AREAS AND EQUIPMENT SHALL BE KEPT OUTSIDE WETLAND AND RIPARIAN AREAS AND SHALL BE LOCATED AT LEAST 100 FEET FROM ANY WATERCOURSE.
4. THE CONTRACTOR SHALL ADDRESS LOCAL DRAINAGE DURING EACH PHASE OF CONSTRUCTION. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.
5. STORM WATER MANAGEMENT WILL REQUIRE MULTIPLE SEEDING AND MULCHING OPERATIONS. THE COST FOR SEEDING IN MULTIPLE OPERATIONS SHALL BE INCLUDED IN THE COST OF SEEDING AND MULCHING.

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| Print Date: at left | 0000 | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | GENERAL NOTES | | | Project No./Code | |
| File Name: at left | | Date: | Comments | Init. | | No Revisions: | | | | TCSPC M555-029 | |
| Horiz. Scale: AS SHOWN AS SHOWN | | | | | | Revised: | Designer: John C Smith | Structure Numbers | - | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John C Smith | Subset Sheets: | - | Sheet Number 12 | |
| | | | | | Sheet Subset: | 1 of 1 | | | | | |

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UTILITIES


1. IT IS ESTIMATED THAT 25 HOURS WILL BE REQUIRED FOR POTHOLING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY REPRESENTATIVES TO BE ONSITE DURING POTHOLING AND SHALL LIKEWISE BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAYBE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REFER TO THE UTILITY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. EXISTING UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION, (ACSE STANDARD QUALITY LEVEL B). THE CONTRACTOR SHALL HAVE ALL MANHOLES AND WATER VALVES LOCATED IN ADVANCE AND MEASURED FOR RISER RING REQUIREMENT.
3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS AND THE UTILITY PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.
4. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY USING EVERY REASONABLE MEANS, INCLUDING FIELD LOCATION OF THE UTILITY. REPAIR OF DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DOCUMENT THE CONDITION OF EXISTING UTILITIES (VISIBLE FACILITIES) WITH THE ENGINEER AND UTILITY REPRESENTATIVES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
5. EXISTING UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION, (ASCE STANDARD QUALITY LEVEL B).
6. UTILITY WORK NOT COMPLETED PRIOR TO THE START OF THE CONTRACTOR'S OPERATIONS WILL REQUIRE COORDINATION WITH CONTRACT WORK IN ACCORDANCE WITH SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT, AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.
7. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. FOR CDOT OWNED UTILITY FACILITIES THE CONTRACTOR SHALL CALL THE CDOT REGION 3 TRAFFIC SECTION AT 970-683-6271 TO REQUEST LOCATES. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.
8. LOCATION AND NOTIFICATION OF BOTH UNCC MEMBER AND NON-MEMBER UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
9. IT IS SUGGESTED THAT THE CONTRACTOR INITIATE A REQUEST TO EXCEL ENERGY AND CENTURY LINK FOR ANY CONSTRUCTION RELATED TEMPORARY ELECTRICAL POWER AND TELEPHONE SERVICE AS SOON AS POSSIBLE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AT PIPES, CULVERTS, CBC'S, AND OTHER AREAS OF EXCAVATION AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED.
11. POTHOLING OF AN AREA SHALL TAKE PLACE 10 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS IN THAT AREA.



**Know what's below.
Call before you dig.**

UTILITY OWNERS:

| | | | | | | |
|---|---|---|---|--|---|---|
| <u>ELECTRIC & GAS</u> XCEL ENERGY 2538 BLICHMAN AVE GRAND JUNCTION, CO 81505 | <u>TELEPHONE & FIBER OPTIC</u> CENTURY LINK 2524 BLICHMAN AVE GRAND JUNCTION, CO 81505 | <u>CABLE TELEVISION</u> CHARTER 2502 FORESIGHT CIRCLE GRAND JUNCTION, CO 81504 | <u>WATER</u> UTE WATER CONSERVANCY DISTRICT 2190 H 1/4 ROAD GRAND JUNCTION, CO 81505 | <u>TRAFFIC SIGNALS</u> CITY OF GRAND JUNCTION 250 N 5TH STREET GRAND JUNCTION, CO 81501 | <u>IRRIGATION</u> CITY OF GRAND JUNCTION 250 N 5TH STREET GRAND JUNCTION, CO 81501 | <u>SANITARY SEWER AND STORM SEWER</u> CITY OF GRAND JUNCTION 250 N 5TH STREET GRAND JUNCTION, CO 81501 |
| JON PRICE (970)244-2693 | CHRIS JOHNSON (970)244-4311 | JEFF VALDEZ (970) 263-2314 | DARREL MOORE (970) 242-7491 | PAUL JAGIM (970) 244-1542 | MIKE VENDEGNA (970)254-3843 | BRET GUILLORY (970) 244-1590 |

| | | | | | | | | | | | | |
|--|------|-----------------|----------|-------|--|----------------|------------------------|--------------------------------------|--------|--|------------------------|--|
| Print Date: at left | 0000 | Sheet Revisions | | |  Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | UTILITY NOTES AND VENDOR CONTACTS | | | Project No./Code | |
| File Name: at left | | Date: | Comments | Init. | | No Revisions: | | | | | TCSPC M555-029 | |
| Horiz. Scale: AS SHOWN AS SHOWN | | | | | | Revised: | Designer: John C Smith | Structure Numbers | - | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John C Smith | Subset Sheets: | 1 of 1 | | Sheet Number 13 | |

N:\Cadd\John Smith\Projects\NORTH AVE)\ACAD Drawings\Summary of Approximate Quantities.dwg, 10/15/2015 5:02:55 PM

| Tabulation or Plan Reference | Contract Item No. | Contract Item | Unit | Plan | As Const. |
|------------------------------|-------------------|--|------|------|-----------|
| Gen Note | 201-00000 | Clearing and Grubbing | AC | 1.15 | |
| Removals | 202-00001 | Removal of Structure | EA | 13 | |
| Landscape | 202-00010 | Removal of Tree | EA | 13 | |
| Drain Remove | 202-00019 | Removal of Inlet | EA | 2 | |
| Drain Remove | 202-00033 | Removal of Pipe | LF | 24 | |
| Removals | 202-00155 | Removal of Wall | LF | 7 | |
| Removals | 202-00190 | Removal of Concrete Median Cover Material | SY | 709 | |
| Removals | 202-00195 | Removal of Median Cover | SY | 1439 | |
| Removals | 202-00200 | Removal of Sidewalk | SY | 1852 | |
| Removals | 202-00201 | Removal of Curb | LF | 1775 | |
| Removals | 202-00202 | Removal of Gutter | LF | 375 | |
| Removals | 202-00203 | Removal of Curb and Gutter | LF | 2650 | |
| Removals | 202-00206 | Removal of Concrete Curb Ramp | SY | 70 | |
| Removals | 202-00210 | Removal of Concrete Pavement | SY | 1050 | |
| Removals | 202-00220 | Removal of Asphalt Mat | SY | 3950 | |
| Removals | 202-00250 | Removal of Pavement Marking | SF | 130 | |
| Removals | 202-00815 | Removal of Sign (Special) | EA | 1 | |
| Final Signing | 202-00821 | Removal of Sign Panel | EA | 1 | |
| Summary of Earthwork | 203-00010 | Unclassified Excavation (CIP) | CY | 1121 | |
| Gen Note | 203-01597 | Potholing | HOUR | 40 | |
| Stormwater | 203-01622 | Sweeping | HOUR | 30 | |
| Stormwater | 207-00210 | Stockpile Topsoil | CY | 1700 | |
| Stormwater | 208-00035 | Aggregate Bag | LF | 10 | |
| Stormwater | 208-00045 | Concrete Washout Structure | EA | 3 | |
| Stormwater | 208-00052 | Storm Drain Inlet Protection (Type 2) | LF | 130 | |
| Stormwater | 208-00070 | Vehicle Tracking Pad | EA | 2 | |
| Stormwater | 208-00103 | Removal and Disposal of Sediment (Labor) | HOUR | 40 | |
| Stormwater | 208-00105 | Removal and Disposal of Sediment (Equipment) | HOUR | 40 | |
| Stormwater | 208-00206 | Erosion Control Supervisor | DAY | 120 | |
| Adjust. Mod. Resets | 210-00050 | Reset Fire Hydrant | EA | 5 | |
| Adjust. Mod. Resets | 210-00065 | Reset Monument (Type 3a) | EA | 2 | |
| Adjust. Mod. Resets | 210-00810 | Reset Ground Sign | EA | 3 | |

| Tabulation or Plan Reference | Contract Item No. | Contract Item | Unit | Plan | As Const. |
|------------------------------|-------------------|--|------|------|-----------|
| Final Signing | 210-00815 | Reset Sign Panel | EA | 13 | |
| Adjust. Mod. Resets | 210-00827 | Reset Pull Box | EA | 14 | |
| Adjust. Mod. Resets | 210-01000 | Reset Fence | LF | 2246 | |
| Adjust. Mod. Resets | 210-01000 | Reset Fence (Special) (Safety Screen) | LF | 623 | |
| Adjust. Mod. Resets | 210-04010 | Adjust Manhole | EA | 4 | |
| Adjust. Mod. Resets | 210-04020 | Modify Inlet | EA | 3 | |
| Adjust. Mod. Resets | 210-04050 | Adjust Valve Box | EA | 5 | |
| Adjust. Mod. Resets | 210-04060 | Adjust Water Meter | EA | 8 | |
| Stormwater | 212-00032 | Soil Conditioning | AC | 0.57 | |
| Landscape | 207-00205 | Topsoil | CY | 8091 | |
| Landscape | 212-00011 | Seeding Lawn | AC | 0.80 | |
| Landscape | 212-00040 | Soil Preparation Lawn | AC | 0.80 | |
| Landscape | 213-00065 | Inorganic Mulch | CY | 530 | |
| Landscape | 213-00705 | Landscape Boulder (Special) | EA | 54 | |
| Landscape | 214-00145 | Plant Protection Fence | LF | 1980 | |
| Landscape | 214-00230 | Deciduous Tree (3 Inch Calliper) | EA | 112 | |
| Landscape | 214-00350 | Deciduous Shrub (5 Gallon Container) | EA | 295 | |
| Landscape | 214-00910 | Perennials (1 Gallon Container) | EA | 97 | |
| Surfacing | 304-06000 | Aggregate Base Course (CL 6) | TON | 1962 | |
| Surfacing | 403-00720 | Hot Mix Asphalt (Patching) (Asphalt) | TON | 17 | |
| Surfacing | 403-34742 | Hot Mix Asphalt (Grading SX)(75)(PG 64-22) | TON | 150 | |
| Surfacing | 403-34771 | Hot Mix Asphalt (Grading SX)(75)(PG 76-28) | TON | 40 | |
| Gen Note | 411-10255 | Emulsified Asphalt (Slow-Setting) | GAL | 100 | |
| Surfacing | 412-00600 | Concrete Pavement (6 inch) | SY | 270 | |
| Surfacing | 412-00800 | Concrete Pavement (8 inch) | SY | 960 | |
| SW,C&G,Median,Ramp | 514-00100 | Hand Rail | LF | 32 | |
| SW,C&G,Median,Ramp | 601-03000 | Concrete Class D (Wall) | CY | 6 | |
| Wall PP, M-601-20 | 601-40301 | Structural Concrete Coating | SF | 100 | |
| Wall PP, M-601-20 | 602-00020 | Reinforcing Steel (Epoxy Coated) | LB | 270 | |
| Drain Items | 603-00120 | 12 Inch Non-Reinforced Concrete Pipe | LF | 178 | |
| Drain Items | 603-50008 | 8 Inch Plastic Pipe | LF | 65 | |
| Drain Items | 604-13006 | Inlet Type 13 (5 Foot) (Special) | EA | 2 | |
| Drain Items | 604-00305 | Inlet Type C (5 Foot) | EA | 6 | |
| Drain Items | 604-30005 | Manhole Slab Base (5 Foot) | EA | 2 | |
| SW,C&G,Median,Ramp | 608-00006 | Concrete Sidewalk (6 Inch) | SY | 4350 | |
| SW,C&G,Median,Ramp | 608-00010 | Concrete Curb Ramp | SY | 41 | |

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10-16-15 | ADDENDUM ON 10-16-15 | JE |
| | | |
| | | |

Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

| As Constructed | SUMMARY OF APPROXIMATE QUANTITIES | |
|----------------|-----------------------------------|-----------------------|
| No Revisions: | Designer: John Smith | Structure Numbers |
| Revised: | Detailer: John Smith | |
| Void: | Sheet Subset: Removal | Subset Sheets: 1 of 2 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **14**

N:\Cadd\John Smith\Projects\NORTH AVE\ACAD Drawings\Summary of Approximate Quantities.dwg, 10/15/2015 5:07:24 PM

| Tabulation or Plan Reference | Contract Item No. | Contract Item | Unit | Plan | As Const. |
|------------------------------|-------------------|---|------|-------|-----------|
| SW,C&G,Median,Ramp | 609-20000 | Curb Type 2 (Section B) (Special) | LF | 52 | |
| SW,C&G,Median,Ramp | 609-20010 | Curb Type 2 (Section B) | LF | 1950 | |
| SW,C&G,Median,Ramp | 609-21010 | Curb and Gutter Type 2 (Section I-B) | LF | 340 | |
| SW,C&G,Median,Ramp | 609-21020 | Curb and Gutter Type 2 (Section II-B) | LF | 2360 | |
| SW,C&G,Median,Ramp | 609-21900 | Curb and Gutter Type 2 (Section II-B) (Special) | LF | 190 | |
| SW,C&G,Median,Ramp | 610-00020 | Median Cover Material (Patterned Concrete) | SF | 3511 | |
| lighting | 613-01200 | 2 inch Electrical Conduit | LF | 8207 | |
| lighting | 613-04010 | Conduit (4" Broadband) | LF | 7600 | |
| lighting | 613-04010 | Conduit (2" City Traffic) | LF | 3700 | |
| lighting | 613-07001 | Type One Pull Box | ea | 76 | |
| lighting | 613-07040 | Pull Box (30"x48"x24") (broadband) | ea | 18 | |
| lighting | 613-07040 | Pull Box (30"x48"x24") (city Traffic) | ea | 7 | |
| lighting | 613-10000 | Wiring | ls | 1 | |
| lighting | 613-30005 | Light Standard and Luminaire (Pedestrian) | ea | 76 | |
| lighting | 613-40012 | Light Standard Foundation (Special) | ea | 76 | |
| lighting | 613-501106 | Lighting Control Center (special) | ea | 1 | |
| Final Signing | 614-01503 | Steel Sign Support (2" Round) (Post & Socket) | EA | 9 | |
| Irrigation | 619-40120 | 1-1/2 Inch Copper Pipe | LF | 40 | |
| Irrigation | 619-50080 | 1 Inch Plastic Pipe | LF | 4920 | |
| Irrigation | 619-50100 | 1-1/4 Inch Plastic Pipe | LF | 80 | |
| Irrigation | 619-50160 | 2 Inch Plastic Pipe (CL200) | LF | 2700 | |
| Irrigation | 619-50160 | 2 Inch Plastic Pipe (SCH40 PVC Sleeve) | LF | 1620 | |
| Gen Note | 620-00020 | Sanitary Facility | EA | 1 | |
| SW,C&G,Median,Ramp | 621-00650 | Pedestrian Stair Structure | LS | 1 | |
| Urban Design Features | 622-00010 | Bicycle Rack | EA | 6 | |
| Urban Design Features | 622-00250 | Bench | EA | 19 | |
| Urban Design Features | 622-00350 | Trash Receptacle | EA | 19 | |
| Irrigation | 623-00156 | Irrigation Bubbler | EA | 384 | |
| Irrigation | 623-00162 | Drip Emitter Tubing | LF | 4100 | |
| Irrigation | 623-00164 | Drip Emitter | EA | 700 | |
| Irrigation | 623-00166 | 3/4 Inch Emitter Valve Assembly | EA | 14 | |
| Irrigation | 623-00602 | 2 Inch Plastic Pipe (Irrigation/Sleeve) | LF | 2040 | |
| Irrigation | 623-00604 | 4 Inch Plastic Pipe (Irrigation/Sleeve) | LF | 1160 | |
| Irrigation | 623-01712 | 1-1/2 Inch Backflow Preventer | EA | 1 | |
| Irrigation | 623-02006 | 3/4 Inch Drain Valve | EA | 3 | |
| Irrigation | 623-03108 | 1 Inch Automatic Control Valve | EA | 14 | |
| Irrigation | 623-03116 | 1 1/2 Inch Automatic Control Valve (Master Control) | EA | 1 | |
| Irrigation | 623-04000 | Control Wire 24 Volt | LF | 15000 | |
| Irrigation | 623-04000 | Control Wire 24 Volt | LF | 5000 | |
| Irrigation | 623-04002 | Power Source Wire | LF | 20 | |
| Irrigation | 623-04008 | 1 Inch Quick-Coupler Valve | EA | 3 | |
| Irrigation | 623-05016 | 2 Inch Gate Valve | EA | 4 | |

| Tabulation or Plan Reference | Contract Item No. | Contract Item | Unit | Plan | As Const. |
|------------------------------|-------------------|--|------|------|-----------|
| Irrigation | 623-06900 | Valve Box | EA | 16 | |
| Irrigation | 623-06900 | Valve Box | EA | 34 | |
| Irrigation | 623-06901 | Valve Box (Special) | EA | 14 | |
| Irrigation | 623-07510 | Weather Station | EA | 1 | |
| Irrigation | 623-07600 | 1 1/2 Inch Flow Sensor | EA | 1 | |
| Irrigation | 623-08432 | 40 Station Automatic Controller | EA | 1 | |
| Irrigation | 623-xxxxx | 1/4" Distribution Pipe | LF | 1500 | |
| Irrigation | 623-xxxxx | Drip Line Blow-Out | EA | 26 | |
| Gen Note | 625-00000 | Construction Surveying | LS | 1 | |
| Gen Note | 626-00000 | Mobilization | LS | 1 | |
| Pavement Marking | 627-00001 | Pavement Marking Paint | GAL | 6 | |
| Pavement Marking | 627-30405 | Preformed Thermoplastic Pavement Marking (Right Turn Arrow) | SF | 48 | |
| Pavement Marking | 627-30405 | Preformed Thermoplastic Pavement Marking (Accessibility Parking) | SF | 64 | |
| Const Traffic Control | 630-00000 | Flagging | HOUR | 500 | |
| Const Traffic Control | 630-00007 | Traffic Control Inspection | DAYS | 54 | |
| Const Traffic Control | 630-00012 | Traffic Control Management | DAYS | 96 | |
| Const Traffic Control | 630-80341 | Construction Traffic Sign (Panel Size A) | EA | 22 | |
| Const Traffic Control | 630-80342 | Construction Traffic Sign (Panel Size B) | EA | 16 | |
| Const Traffic Control | 630-80344 | Construction Sign Panel (Special) | SF | 21 | |
| Const Traffic Control | 630-80336 | Barricade (Type 3 M-B)(Temporary) | EA | 10 | |
| Const Traffic Control | 630-80358 | Advanced Warning Flashing Arrow (type C) | DAYS | 250 | |
| Const Traffic Control | 630-80359 | Portable Message Sign Panel | DAYS | 60 | |
| Const Traffic Control | 630-80360 | Drum Channelizing Device | EA | 80 | |
| Const Traffic Control | 630-80363 | Drum Channelizing Device (With Light) (Flashing) | EA | 80 | |
| Const Traffic Control | 630-80377 | Portable Water Filled Barrier (Temporary) | LF | 50 | |
| Const Traffic Control | 630-80380 | Traffic Cone | EA | 160 | |
| Gen Note | 630 | Public Information Services | ls | 1 | |
| FA | 700-70010 | F/A Minor Contract Revisions | LS | 1 | |
| FA | 700-70011 | F/A Partnering | LS | 1 | |
| FA | 700-70016 | F/A Fuel Cost Adjustment | LS | 1 | |
| FA | 700-70320 | F/A Sprinklers | LS | 1 | |
| FA | 700-70021 | F/A On The Job Trainee | HOUR | 320 | |
| FA | 700-70380 | F/A Erosion Control | LS | 1 | |
| FA | 700-73302 | F/A Lighting by Others (Non-Utility) Paid by LS | LS | 1 | |

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10-16-15 | ADDENDUM ON 10-16-15 | JE |
| | | |
| | | |

Colorado Department of Transportation

 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

| As Constructed | SUMMARY OF APPROXIMATE QUANTITIES | |
|----------------|-----------------------------------|-----------------------|
| No Revisions: | Designer: John Smith | Structure Numbers |
| Revised: | Detailer: John Smith | |
| Void: | Sheet Subset: Removal | Subset Sheets: 2 of 2 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **15**

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SUMMARY OF EARTHWORK QUANTITIES

| INDEX | | | | PROJECT TOTAL | |
|-------|------|-------|---|---------------|-----------|
| Book | Page | Sheet | | CU. YD. | As Const. |
| | | | UNCLASSIFIED EXCAVATION (CIP) | | |
| | | | ROADWAY (QUANTITY CALCULATED FROM CIVIL3D) | | |
| | | | North Avenue from Sta 59+50 to Sta 98+75 | | |
| | | | 2305 | | |
| | | | REMOVAL OF PAVEMENT PAY ITEMS | -353 | |
| | | | REMOVAL OF CONCRETE PAY ITEMS | -539 | |
| | | | TOTAL FOR PAY QUANTITIES | | |
| | | | 1413 | | |
| | | | WETTING (FOR INFORMATION ONLY) | | |
| | | | SURFACING (0.022 M GAL/TON) | | |
| | | | 57 | | |
| | | | EMBANKMENT (CIP) (0.04 M GAL / CY) | | |
| | | | 12 | | |
| | | | TOTAL | | |
| | | | 68.204 | | |
| | | | EMBANKMENT MATERIAL (CIP) (FOR INFORMATION ONLY) | | |
| | | | QUANTITY CALCULATED FROM CIVIL3D | | |
| | | | North Avenue from Sta 59+50 to Sta 98+75 | | |
| | | | 254 | | |
| | | | TOTAL | | |
| | | | 254 | | |

| INDEX | | | <u>ROADWAY QUANTITIES BALANCE</u> <u>(FOR INFORMATION ONLY)</u> | PROJECT TOTAL | |
|-------|------|-------|--|---------------|-----------|
| Book | Page | Sheet | | CU. YD. | As Const. |
| | | | Total Unclassified Excavation | 1413 | |
| | | | Total Embankment (net) | 254 | |
| | | | EMBANKMENT TIMES FACTOR 1.15 | 292 | |
| | | | Excess Embankment (Material to be hauled by Contractor) | 1121 | |

NOTES:

TOP 4 INCHES OF ALL EMBANKMENT SHALL BE FREE OF DEBRIS AND ROCKS OR CLODS GREATER THAN 3 INCHES IN DIAMETER, AND SHALL BE SUITABLE AS NATIVE TOPSOIL.
 ALL IMPORTED EMBANKMENT MATERIAL SHALL MEET A MINIMUM OF R-VALUE = 40.

| | | | | | | | | | | |
|--|------|-----------------|----------|-------|--|----------------|---------------------------------|-------------------|--------|------------------------|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | SUMMARY OF EARTHWORK QUANTITIES | | | Project No./Code |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | | | TCSP M555-029 |
| Horiz. Scale: NA Vert. Scale: NA | | | | | | Revised: | Designer: John Smith | Structure Numbers | | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | Subset Sheets: | 1 of 1 | Sheet Number 16 |

TABULATION OF REMOVALS - SECTION 1

| STATION | (202-00190) REMOVAL OF CONCRETE MEDIAN COVER MATERIAL | | (202-00195) REMOVAL OF MEDIAN COVER | | (202-00200) REMOVAL OF SIDEWALK | | (202-00201) REMOVAL OF CURB | | (202-00202) REMOVAL OF GUTTER | | (202-00203) REMOVAL OF CURB AND GUTTER | | (202-00206) REMOVAL OF CONCRETE CURB RAMP | | (202-00210) REMOVAL OF CONCRETE PAVEMENT | | (202-00220) REMOVAL OF ASPHALT MAT | | COMMENTS |
|------------------------|--|----------|---|----------|---------------------------------------|----------|--------------------------------|------------|-------------------------------------|-----------|--|------------|--|----------|---|------------|--|-------------|----------------------------------|
| | SY | | SY | | SY | | LF | | LF | | LF | | SY | | SY | | SY | | |
| | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | |
| NORTH AVE | | | | | | | | | | | | | | | | | | | |
| 59+42 TO 59+70 LT | | | | | | | | | | | | 37 | | | | | | | NE Corner 12th Ave |
| 59+50 TO 59+72 LT | | | | | 26 | | | | | | | | | | | | | | NE Corner 12th Ave |
| 59+55 LT | | | | | 9 | | | | | | | | | | | | | | NE Corner 12th Ave |
| 59+58 TO 59+68 RT | | | | | | | | | | | | 14 | | | | | | | SE Corner 12th Ave |
| 59+65 RT | | | | | | | | | | | | | | 5 | | | | | SE Corner 12th Ave |
| 59+67 TO 59+72 RT | | | | | 5 | | | | | | | | | | | | | | SE Corner 12th Ave |
| 59+68 TO 67+32 | | | 474 | | | | | | | | | | | | | | | | Median |
| 61+88 TO 61+97 LT | | | | | | | | | | | | 84 | | | | | | | McDonalds Driveway |
| 61+88 TO 62+72 LT | | | | | | | | | | | | | | | 9 | | | | McDonalds / Papis Johns Driveway |
| 61+93 TO 61+97 LT | | | | | | | | 15 | | | | | | | | | | | McDonalds Driveway |
| 62+26 TO 62+33 LT | | | | | | | | 9 | | | | | | | | | | | Papa Johns Driveway |
| 62+26 TO 62+63 LT | | | | | | | | | | | | | | | 23 | | | | Papa Johns Driveway |
| 62+48 TO 62+48 LT | | | | | | | | | | | | | | | | | 92 | | Papa Johns Driveway |
| 62+60 TO 62+67 LT | | | | | 12 | | | | | | | | | | | | | | Papa Johns |
| 62+63 TO 62+92 LT | | | | | 20 | | | | | | | | | | | | | | Papa Johns |
| 62+92 TO 63+55 LT | | | | | | | | | | | | | | | | | 90 | | The Optical Center |
| 63+26 TO 63+32 LT | | | | | | | | 5 | | | | | | | | | | | The Optical Center |
| 63+27 TO 64+30 LT | | | | | | | | | | | | 103 | | | | | | | The Optical Center / Aquatime |
| 63+28 TO 63+75 LT | | | | | | | | | | | | | | | 24 | | | | The Optical Center |
| 63+56 TO 63+56 LT | | | | | | | | | 10 | | | | | | | | | | The Optical Center |
| 63+57 TO 67+54 LT | | | | | | | | | | | | | | | | | 543 | | The Optical Center to Alley |
| 63+75 TO 64+59 LT | | | | | 46 | | | | | | | | | | | | | | The Optical Center / Aquatime |
| 64+20 TO 64+40 LT | | | | | | | | 27 | | | | | | | | | | | Aquatime Sign |
| 64+59 TO 64+64 LT | | | | | | | | 8 | | | | | | | | | | | Aquatime Sign |
| 64+59 TO 64+94 LT | | | | | | | | | | | | | | | 15 | | | | Aquatime Sign |
| 64+59 TO 64+94 LT | | | | | | | | | | | | 35 | | | | | | | Aquatime Sign |
| 65+28 TO 65+94 LT | | | | | | | | | | 66 | | | | | | | | | Tan Perfection |
| 65+43 TO 65+90 LT | | | | | | | | | | | | | | | 20 | | | | Tan Perfection |
| 65+44 TO 65+50 LT | | | | | | | | 8 | | | | | | | | | | | Tan Perfection |
| 65+85 TO 65+90' LT | | | | | | | | 7 | | | | | | | | | | | Johnson's House of Flowers |
| 65+90 TO 67+43 LT | | | | | 78 | | | | | | | | | | | | | | Johnson's House of Flowers |
| 66+07 TO 67+08 LT | | | | | | | | | | | | 101 | | | | | | | Johnson's House of Flowers |
| 66+17 TO 85+87 RT | | | | | 870 | | | | | | | | | | | | | | Park |
| 67+34 TO 67+50 LT | 61 | | | | | | | | | | | | | | | | | | Johnson's House of Flowers |
| 67+37 TO 67+48 LT | | | | | | | | | | | | 11 | | | | | | | Johnson's House of Flowers |
| 67+42 TO 67+48 LT | | | | | | | | | | | | | | | 3 | | | | Johnson's House of Flowers |
| 68+09 TO 69+89 LT | | | | | | | | 181 | | | | | | | | | | | Median |
| 68+09 TO 69+89 LT | | | | | | | | | | | | | | | | | 133 | | Median |
| 68+09 TO 71+88 LT | 243 | | | | | | | | | | | | | | | | | | Median |
| 68+88 TO 69+42 LT | | | | | | | | | | | | | | | | | 97 | | Karate DoJo |
| 69+05 TO 69+44 LT | | | | | | | | | | | | 39 | | | | | | | Karate DoJo |
| 69+13 TO 69+18 LT | | | | | | | | 7 | | | | | | | | | | | Karate DoJo |
| 69+17 TO 69+45 LT | | | | | | | | | | | | | | | 17 | | | | Karate DoJo |
| 70+48 TO 70+85 LT | | | | | | | | | | | | | | | | | 68 | | Pizza Hut |
| 70+72 TO 71+20 LT | | | | | | | | | | | | 48 | | | | | | | Pizza Hut |
| 70+80 TO 71+15 LT | | | | | | | | | | | | | | | 46 | | | | Pizza Hut |
| 71+10 TO 71+29 LT | | | | | | | | | | | | | | | | | 27 | | Pizza Hut |
| 71+28 TO 71+62 LT | | | | | 53 | | | | | | | | | | | | | | 15th and North Plaza |
| 71+52 TO 71+63 LT | | | | | | | | 19 | | | | | | | | | | | 15th and North Plaza |
| 71+53 TO 71+91 LT | | | | | | | | | | | | 38 | | | | | | | 15th and North Plaza |
| 71+57 TO 71+87 LT | | | | | | | | | | | | | | | 17 | | | | 15th and North Plaza |
| 71+75 TO 71+75 LT | | | | | | | | | | | | | | | | | 227 | | 15th and North Plaza |
| SUB TOTAL SHT 1 | 304 | | 474 | | 1119 | | | 286 | | 76 | | 510 | | 5 | | 174 | | 1277 | |

N:\Cadd\John Smith\Projects\NORTH AVE\QUANTITIES\August of 2015 quantity and tabulation work from Dan - Copy\Quantities\Tabulation Sheets 20150619.dwg, 8/20/2015 11:30:15 AM

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|--|------|-----------------|----------|-------|--|--|--|----------------|--|------------------------|--|-----------------------|--|-----------------------|--|-----------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | | | As Constructed | | TABULATION OF REMOVALS | | | | Project No./Code | | | |
| File Name: AT LEFT | | Date: | Comments | Init. | | | | No Revisions: | | Revised: | | Designer: John Smith | | Structure Numbers | | TCSP M555-029 | |
| Horiz. Scale: NA Vert. Scale: NA | | | | | | | | Void: | | | | Detailer: John Smith | | | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | | | | | Sheet Subset: Rem Tab | | Subset Sheets: 1 of 6 | | Sheet Number 17 | |

TABULATION OF REMOVALS - SECTION 1


| STATION | (202-00190) REMOVAL OF CONCRETE MEDIAN COVER MATERIAL | | (202-00195) REMOVAL OF MEDIAN COVER | | (202-00200) REMOVAL OF SIDEWALK | | (202-00201) REMOVAL OF CURB | | (202-00202) REMOVAL OF GUTTER | | (202-00203) REMOVAL OF CURB AND GUTTER | | (202-00206) REMOVAL OF CONCRETE CURB RAMP | | (202-00210) REMOVAL OF CONCRETE PAVEMENT | | (202-00220) REMOVAL OF ASPHALT MAT | | COMMENTS |
|------------------------|--|----------|---|------------|---------------------------------------|------------|--------------------------------|------------|-------------------------------------|------------|--|------------|--|-----------|---|------------|--|------------|--|
| | SY | | SY | | SY | | LF | | LF | | LF | | SY | | SY | | SY | | |
| | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | |
| NORTH AVE | | | | | | | | | | | | | | | | | | | |
| 71+85 TO 71+91 LT | | | | | | | 18 | | | | | | | | | | | | 15th and North Plaza |
| 71+85 TO 72+04 LT | | | | | 16 | | | | | | | | | | | | | | 15th and North Plaza |
| 72+02 TO 72+08 LT | | | | | | | | | | | 25 | | | | | | | | 15th and North Plaza |
| 72+05 LT | | | | | | | | | | | | | 5 | | | | | | 15th and North Plaza |
| 72+47 TO 72+47 LT | | | | | | | | | | | 21 | | | | | | | | Old Far East |
| 72+49 LT | | | | | | | | | | | | | 4 | | | | | | Old Far East |
| 72+51 TO 73+52 LT | | | | | | | | | | | | | | | | | 53 | | Old Far East |
| 72+51 TO 74+49 LT | | | | | 172 | | | | | | | | | | | | | | Old Far East to Petes House of Spirits |
| 72+54 TO 72+56 LT | | | | | | | 4 | | | | | | | | | | | | Old Far East |
| 72+55 TO 75+30 | 233 | | | | | | | | | | | | | | | | | | Median |
| 72+60 TO 75+00 LT | | | | | | | | | 240 | | | | | | | | | | Old Far East |
| 73+21 TO 73+63 LT | | | | | | | | | | | | | | | 30 | | | | Old Far East |
| 73+29 TO 73+29 LT | | | | | | | | 5 | | | | | | | | | | | Old Far East |
| 74+44 TO 74+44 LT | | | | | | | | | 15 | | | | | | | | | | Petes House of Spirits |
| 74+49 TO 74+94 LT | | | | | | | | | | | | | | | | | 79 | | Petes House of Spirits |
| 74+54 TO 74+59 LT | | | | | | | | 8 | | | | | | | | | | | Petes House of Spirits |
| 74+58 TO 74+95 LT | | | | | | | | | | | | | | | 23 | | | | Petes House of Spirits |
| 74+94 TO 75+00 LT | | | | | | | | 9 | | | | | | | | | | | Monument Inn |
| 74+94 TO 75+39 LT | | | | | | | | | | | | | | | | | 9 | | Monument Inn |
| 74+94 TO 75+33 LT | | | | | 20 | | | | | | | | | | | | | | Monument Inn |
| 75+70 TO 76+25 RT | | | | | | | | | | | 55 | | | | | | | | Park |
| 75+98 TO 76+18 LT | | | | | | 11 | | | | | | | | | | | | | Monument Inn |
| 76+00 TO 78+42 LT | | | | 191 | | | | | | | | | | | | | | | Monument Inn |
| 76+08 TO 76+66 LT | | | | | | | | | | | 58 | | | | | | | | Monument Inn |
| 76+17 TO 76+63 LT | | | | | | | | | | | | | | | 25 | | | | Monument Inn |
| 76+22 TO 76+22 LT | | | | | | | | 8 | | | | | | | | | | | Monument Inn |
| 76+22 TO 78+72 LT | | | | | | | | | | | | | | | | | 324 | | Monument Inn |
| 76+57 TO 77+70 LT | | | | | | 49 | | | | | | | | | | | | | Monument Inn |
| 77+58 TO 78+00 LT | | | | | | | | | | | 42 | | | | | | | | Monument Inn |
| 77+64 TO 77+69 LT | | | | | | | | 7 | | | | | | | | | | | Monument Inn |
| 77+68 TO 77+92' LT | | | | | | | | | | | | | | | 12 | | | | Monument Inn |
| 77+90 TO 77+95 LT | | | | | | | | 7 | | | | | | | | | | | Veterinary Emergency Center |
| 78+05 TO 78+55 LT | | | | | | | | 115 | | | | | | | | | | | Landscape Planter |
| 78+58 TO 78+71 LT | | | | | | | | 18 | | | | | | | | | | | Veterinary Emergency Center |
| 78+73 TO 78+73' LT | | | | | | | | | | | | | | | 3 | | | | Veterinary Emergency Center |
| 78+93 TO 78+93 LT | | | | | | | | | | | | | | | 4 | | | | Boost Mobile |
| 78+95 TO 78+98 LT | | | | | | | | 9 | | | | | | | | | | | Boost Mobile |
| 78+96 TO 79+39 LT | | | | | | | | | | | | | | | | | 67 | | Boost Mobile |
| 79+08 TO 83+20 | | | | 383 | | | | | | | | | | | | | | | Median |
| 79+08 TO 80+32 LT | | | | | | | | | | | 124 | | | | | | | | Boost Mobile to Grand Mesa Med Supply |
| 79+73 TO 83+33 RT | | | | | | | | | | | 360 | | | | | | | | Park |
| 80+27 TO 80+32 LT | | | | | | | | | | | | | | | 2 | | | | Grand Mesa Med Supply |
| 80+32 TO 80+90 LT | 31 | | | | | | | | | | | | | | | | | | Grand Mesa Med Supply to Burger King |
| 80+54 TO 80+60 LT | | | | | | | | | | | | | | | | | | | Burger King |
| 80+54 TO 80+64 LT | | | | | | | | | | | 10 | | | | | | | | Burger King |
| 81+80 TO 83+22 LT | | | | | | | | | | | 142 | | | | | | | | Gas Station |
| 81+88 TO 82+25LT | | | | | | | | | | | | | | | 39 | | | | Gas Station |
| 81+88 TO 83+36 LT | | | | | | 85 | | | | | | | | | | | | | Gas Station |
| 81+88 TO 83+35 LT | | | | | | | | | | | | | | | | | 29 | | Gas Station |
| 82+79 TO 83+20 LT | | | | | | | | | | | | | | | 37 | | | | Gas Station |
| 83+33 TO 83+36 LT | | | | | | | | 4 | | | | | | | | | | | Gas Station |
| 83+38 LT | | | | | | | | | | | | | | 3 | | | | | Gas Station |
| SUB TOTAL SHT 2 | 264 | | | 574 | | 353 | | 212 | | 255 | | 837 | | 12 | | 177 | | 561 | |

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| Print Date: AT LEFT | 0000 |
| File Name: AT LEFT | |
| Horiz. Scale: NA Vert. Scale: NA | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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Colorado Department of Transportation



606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

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|----------------|---------------------------|-----------------------|
| As Constructed | TABULATION OF REMOVALS | |
| No Revisions: | Designer: John Smith | Structure Numbers |
| Revised: | Detailer: John Smith | |
| Void: | Sheet Subset: Rem Tab | Subset Sheets: 2 of 6 |

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|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 18 |

TABULATION OF REMOVALS - SECTION 1

| STATION | (202-00190) REMOVAL OF CONCRETE MEDIAN COVER MATERIAL | | (202-00195) REMOVAL OF MEDIAN COVER | | (202-00200) REMOVAL OF SIDEWALK | | (202-00201) REMOVAL OF CURB | | (202-00202) REMOVAL OF GUTTER | | (202-00203) REMOVAL OF CURB AND GUTTER | | (202-00206) REMOVAL OF CONCRETE CURB RAMP | | (202-00210) REMOVAL OF CONCRETE PAVEMENT | | (202-00220) REMOVAL OF ASPHALT MAT | | COMMENTS |
|------------------------|--|----------|---|----------|---------------------------------------|----------|--------------------------------|----------|-------------------------------------|----------|--|----------|--|----------|---|----------|--|----------|----------------------|
| | SY | | SY | | SY | | LF | | LF | | LF | | SY | | SY | | SY | | |
| | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | |
| NORTH AVE | | | | | | | | | | | | | | | | | | | |
| 83+38 TO 83+38 LT | | | | | | | | | | | | | | | | | | | Gas Station |
| 83+40 TO 83+42 LT | | | | | | | | 17 | | | | | | | | | | | Gas Station |
| 83+74 TO 83+74 LT | | | | | | | | 15 | | | | | | | | | | | Wrigley Field |
| 83+78 TO 83+78' LT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 83+78 TO 84+62 LT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 83+86 TO 85+75 LT | | | | 140 | | | | | | | | | | | | | | | Wrigley Field |
| 84+05 TO 86+02 RT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 84+56 TO 85+06 LT | | | | | | | | | | | | | | | | | | | Park |
| 84+57 TO 84+64 LT | | | | | | | | 18 | | | | | | | | | | | Wrigley Field |
| 84+61 TO 84+99 LT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 84+64 TO 84+79 LT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 84+81 TO 84+81 LT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 84+82 TO 85+92 LT | | | | | | | | | | | | | | | | | | | Wrigley Field |
| 84+97 TO 84+97 LT | | | | | | | | | | | | | | | | | | | Timbers Motel |
| 84+98 TO 85+02 LT | | | | | | | | | | | | | | | | | | | Timbers Motel |
| 85+52 TO 85+56 LT | | | | | | | | | | | | | | | | | | | Timbers Motel |
| 85+55 TO 86+02 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 85+62 TO 88+22 RT | | | | | | | | | | | | | | | | | | | Village Inn |
| 85+68 TO 85+72 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 85+71 TO 85+93 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 85+92 TO 85+97 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+09 TO 86+45 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+51 TO 89+03 | | | | 84 | | | | | | | | | | | | | | | Village Inn |
| 86+54 TO 86+95 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+54 TO 88+22 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+59 TO 86+64 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+62 TO 86+85 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+64 TO 87+19 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 86+84 TO 86+88 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 87+00 TO 87+02 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 87+19 TO 87+40 LT | | | | | | | | | | | | | | | | | | | Village Inn |
| 87+30 TO 87+75 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+34 TO 87+40 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+38 TO 87+71 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+40 TO 87+70 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+40 TO 89+51 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+70 TO 87+75 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+90 TO 88+34 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+90 TO 88+39 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 87+97, TO 88+32 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 88+28 TO 88+28 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 88+32 TO 88+39 LT | | | | | | | | | | | | | | | | | | | Frontier Motor Lodge |
| 89+11 TO 89+16 LT | | | | | | | | | | | | | | | | | | | Wendy's |
| 89+16 TO 89+28 LT | | | | | | | | | | | | | | | | | | | Wendy's |
| 89+16 TO 89+30 LT | | | | | | | | | | | | | | | | | | | Wendy's |
| 89+28 TO 89+51 LT | | | | | | | | | | | | | | | | | | | Wendy's |
| 89+68 TO 91+76 | | | | | | | | | | | | | | | | | | | Median |
| 90+06 TO 90+11 LT | | | | | | | | | | | | | | | | | | | Auto Mart |
| 90+06 TO 90+41 LT | | | | | | | | | | | | | | | | | | | Auto Mart |
| 90+11 TO 90+41 LT | | | | | | | | | | | | | | | | | | | Auto Mart |
| 90+36 TO 90+36 LT | | | | | | | | | | | | | | | | | | | Auto Mart |
| SUB TOTAL SHT 3 | 141 | | 224 | | 45 | | 340 | | 44 | | 505 | | 0 | | 192 | | 907 | | |

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Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
Region 3 **RBB**


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|-----------------------|-------------------------------|-----------------------|
| As Constructed | TABULATION OF REMOVALS | |
| No Revisions: | Designer: John Smith | Structure Numbers |
| Revised: | Detailer: John Smith | |
| Void: | Sheet Subset: Rem Tab | Subset Sheets: 3 of 6 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **19**

TABULATION OF REMOVALS - SECTION 1

| STATION | (202-00190) REMOVAL OF CONCRETE MEDIAN COVER MATERIAL | | (202-00195) REMOVAL OF MEDIAN COVER | | (202-00200) REMOVAL OF SIDEWALK | | (202-00201) REMOVAL OF CURB | | (202-00202) REMOVAL OF GUTTER | | (202-00203) REMOVAL OF CURB AND GUTTER | | (202-00206) REMOVAL OF CONCRETE CURB RAMP | | (202-00210) REMOVAL OF CONCRETE PAVEMENT | | (202-00220) REMOVAL OF ASPHALT MAT | | COMMENTS | |
|------------------------|--|----------|---|----------|---------------------------------------|----------|--------------------------------|----------|-------------------------------------|----------|--|----------|--|----------|---|----------|--|----------|----------|-----------|
| | SY | | SY | | SY | | LF | | LF | | LF | | SY | | SY | | SY | | | |
| | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | | |
| NORTH AVE | | | | | | | | | | | | | | | | | | | | |
| 90+41 TO 90+50 LT | | | | | 5 | | | | | | | | | | | | | | | Auto Mart |
| 90+46 TO 90+98 LT | | | | | | | | | | | 52 | | | | | | | | | Auto Mart |
| 90+50 TO 90+97 LT | | | | | | | | | | | | | | | 68 | | | | | Auto Mart |
| 90+56 TO 90+56 LT | | | | | | | | 10 | | | | | | | | | | | | Auto Mart |
| 90+97 TO 91+31 LT | | | | | 19 | | | | | | | | | | | | | | | Auto Mart |
| 91+31 TO 91+76 LT | | | | | | | | | | | 45 | | | | | | | | | Auto Mart |
| 91+31 TO 91+76 LT | | | | | | | | | | | | | | | 33 | | | | | Auto Mart |
| 91+76 TO 91+92 LT | | | | | 13 | | | | | | | | | | | | | | | Auto Mart |
| 91+86 TO 92+44 LT | | | | | | | | | | | | | | | | | 91 | | | Auto Mart |
| 91+93 TO 91+99 LT | | | | | | | | | | | 24 | | | | | | | | | Auto Mart |
| 91+95 LT | | | | | | | | | | | | | 6 | | | | | | | Auto Mart |
| 92+33 TO 92+38 LT | | | | | | | | | | | 49 | | | | | | | | | Auto Mart |
| 92+36 TO 92+36 LT | | | | | 5 | | | | | | | | | | | | | | | Auto Mart |
| 92+38, 50' LT | | | | | | | | | | | | | 9 | | | | | | | Auto Mart |
| 92+39 TO 92+50 LT | | | | | 5 | | | | | | | | | | | | | | | Auto Mart |
| 92+52 TO 93+22 LT | | | | | 51 | | | | | | | | | | | | | | | Auto Mart |
| 92+55 TO 94+90 | | | 78 | | | | | | | | | | | | | | | | | Median |
| 92+62 TO 93+16 LT | | | | | | | | 59 | | | | | | | | | | | | Auto Mart |
| 92+62 TO 93+25 LT | | | | | | | | | | | | | | | | | 38 | | | Auto Mart |
| 92+65 TO 93+85 LT | | | | | | | | | | | 120 | | | | | | | | | Auto Mart |
| 93+18 OT 93+25 LT | | | | | | | | | | | | | | | | | | | | Auto Mart |
| 93+22 TO 93+65 LT | | | | | | | | | | | | | | | 24 | | | | | Auto Mart |
| 93+25 TO 94+88 LT | | | | | | | | 320 | | | | | | | | | | | | Auto Mart |
| 93+25 TO 97+49 LT | | | | | | | | | | | | | | | | | 468 | | | Auto Mart |
| 93+29 TO 93+31 LT | | | | | | | | 12 | | | | | | | | | | | | Auto Mart |
| 93+30 TO 93+59 LT | | | | | | | | 12 | | | | | | | | | 31 | | | Auto Mart |
| 93+59 TO 93+60 LT | | | | | | | | 12 | | | | | | | | | | | | Auto Mart |
| 93+63 TO 93+84 LT | | | | | | | | | | | | | | | | | 12 | | | Auto Mart |
| 93+65 TO 95+21 LT | | | | | 107 | | | | | | | | | | | | | | | Auto Mart |
| 93+73 TO 93+85 LT | | | | | | | | 18 | | | | | | | | | | | | Auto Mart |
| 94+00 TO 95+12 LT | | | | | | | | 118 | | | | | | | | | | | | Auto Mart |
| 94+00 TO 95+18 LT | | | | | | | | | | | | | | | | | 71 | | | Auto Mart |
| 94+50 TO 95+50 LT | | | | | | | | | | | 100 | | | | | | | | | Auto Mart |
| 95+10 TO 95+18 LT | | | | | | | | | | | | | | | | | | | | Auto Mart |
| 95+21 TO 95+21 LT | | | | | | | | 10 | | | | | | | | | | | | Auto Mart |
| 95+21 TO 95+50 LT | | | | | | | | | | | | | | | | | 25 | | | Auto Mart |
| 95+21 TO 95+51 LT | | | | | | | | | | | | | | | 18 | | | | | Auto Mart |
| 95+50 TO 95+50 LT | | | | | | | | | | | | | | | | | | | | Auto Mart |
| 95+52 TO 95+75 LT | | | | | 21 | | | | | | | | | | | | | | | Auto Mart |
| 95+67 TO 98+40 | | | 89 | | | | | | | | | | | | | | | | | Auto Mart |
| 95+70 TO 97+50LT | | | | | | | | 293 | | | | | | | | | | | | Auto Mart |
| 95+75 TO 96+25 LT | | | | | | | | | | | | | | | 31 | | | | | Auto Mart |
| 95+75 TO 96+31 LT | | | | | | | | | | | 56 | | | | | | | | | Auto Mart |
| 95+83 TO 97+16 LT | | | | | | | | | | | | | | | | | 133 | | | Auto Mart |
| 96+24 TO 96+76 LT | | | | | 34 | | | | | | | | | | | | | | | Auto Mart |
| 96+70 TO 98+37 LT | | | | | | | | | | | 167 | | | | | | | | | Auto Mart |
| 96+76 TO 97+22 LT | | | | | | | | | | | | | | | 29 | | | | | Auto Mart |
| 97+16 TO 97+16' LT | | | | | | | | 8 | | | | | | | | | | | | Auto Mart |
| 97+20 TO 97+49 LT | | | | | 22 | | | | | | | | | | | | | | | Auto Mart |
| 97+41 TO 97+41 LT | | | | | | | | 7 | | | | | | | | | | | | Auto Mart |
| 97+49 TO 97+83 LT | | | | | | | | | | | | | | | 22 | | | | | Auto Mart |
| 97+54 TO 98+56 LT | | | | | | | | | | | | | | | | | 83 | | | Auto Mart |
| SUB TOTAL SHT 4 | 0 | | 167 | | 282 | | 867 | | 0 | | 613 | | 15 | | 225 | | 952 | | | |

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|--|------|-----------------|----------|-------|---|----------------|--|------------------------|--|-----------------------|--|------------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | TABULATION OF REMOVALS | | | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | TCSP M555-029 | | | | 19365 | |
| Horiz. Scale: NA Vert. Scale: NA | | | | | | Revised: | | Designer: John Smith | | Structure Numbers | | Sheet Number 20 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | | Detailer: John Smith | | Subset Sheets: 4 of 6 | | | |

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TABULATION OF REMOVALS - SECTION 1

| STATION | (202-00190) REMOVAL OF CONCRETE MEDIAN COVER MATERIAL | | (202-00195) REMOVAL OF MEDIAN COVER | | (202-00200) REMOVAL OF SIDEWALK | | (202-00201) REMOVAL OF CURB | | (202-00202) REMOVAL OF GUTTER | | (202-00203) REMOVAL OF CURB AND GUTTER | | (202-00206) REMOVAL OF CONCRETE CURB RAMP | | (202-00210) REMOVAL OF CONCRETE PAVEMENT | | (202-00220) REMOVAL OF ASPHALT MAT | | COMMENTS | |
|------------------------|--|----------|---|----------|---------------------------------------|----------|--------------------------------|----------|-------------------------------------|----------|--|----------|--|----------|---|----------|--|----------|----------|-----------|
| | SY | | SY | | SY | | LF | | LF | | LF | | SY | | SY | | SY | | | |
| | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | | |
| NORTH AVE | | | | | | | | | | | | | | | | | | | | |
| 97+83 TO 98+00 LT | | | | | 13 | | | | | | | | | | | | | | | Auto Mart |
| 98+00 TO 98+37 LT | | | | | | | | | | | | | | | | 26 | | | | Auto Mart |
| 98+56 TO 98+56 LT | | | | | | | | | | | | | | | 9 | | | | | Auto Mart |
| 98+58 LT | | | | | | | | | | | | | 6 | | | | | | | Auto Mart |
| 98+59 TO 98+61 LT | | | | | | | | | | | 32 | | | | | | | | | Auto Mart |
| SUBTOTAL SHT 5 | 0 | | 0 | | 13 | | 0 | | 0 | | 32 | | 6 | | 35 | | 0 | | | |
| SUB TOTAL SHT 1 | 304 | | 474 | | 1119 | | 286 | | 76 | | 510 | | 5 | | 174 | | 1277 | | | |
| SUBTOTAL SHT 2 | 264 | | 574 | | 353 | | 212 | | 255 | | 837 | | 12 | | 177 | | 561 | | | |
| SUB TOTAL SHT 3 | 141 | | 224 | | 45 | | 340 | | 44 | | 505 | | 0 | | 192 | | 907 | | | |
| SUB TOTAL SHT 4 | 0 | | 167 | | 282 | | 867 | | 0 | | 613 | | 15 | | 225 | | 952 | | | |
| PROJECT TOTAL | 709 | | 1439 | | 1812 | | 1705 | | 375 | | 2497 | | 38 | | 803 | | 3697 | | | |

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 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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 Region 3 RBB

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|-----------------------|-----------------------------------|-----------------------|-------------------------|
| As Constructed | TABULATION OF REMOVALS | | Project No./Code |
| No Revisions: | | | TCSP M555-029 |
| Revised: | Designer: John Smith | Structure Numbers | 19365 |
| Void: | Detailer: John Smith | Sheet Subset: Rem Tab | Sheet Number 21 |
| | Sheet Subset: Rem Tab | Subset Sheets: 5 of 6 | |

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TABULATION OF REMOVALS - SECTION 2

| STATION | (202-00001) REMOVAL OF STRUCTURE | | (202-00010) REMOVAL OF TREE | | (202-00155) REMOVAL OF WALL | | (202-00250) REMOVAL OF PAVEMENT MARKING | | (202-00815) REMOVAL OF SIGN (SPECIAL) | | COMMENTS |
|----------------------|--|----------|--------------------------------|----------|--------------------------------|----------|--|----------|---|----------|----------------------|
| | EA | | EA | | LF | | SF | | EA | | |
| | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | |
| NORTH AVE | | | | | | | | | | | |
| 63+87 LT | | | | | | | | | 1 | | Aquatime Sign |
| 66+35 RT | | | 1 | | | | | | | | Park |
| 69+70 RT | | | 1 | | | | | | | | Karate DoJo |
| 75+10 RT | | | 1 | | | | | | | | Monument Inn |
| 75+61 RT | | | 1 | | | | | | | | Monument Inn |
| 79+06 LT | 1 | | | | | | | | | | Planter |
| 83+80 TO 84+63 LT | 1 | | | | | | | | | | Railroad Tie Planter |
| 84+97 TO 84+97 LT | 1 | | | | | | | | | | Railroad Tie Planter |
| 85+58 RT | | | 1 | | | | | | | | Park |
| 85+95 TO 85+95 LT | 1 | | | | | | | | | | Rock Planter |
| 86+00 TO 86+30 | | | | | | | 130 | | | | VA CROSSWALK |
| 86+61 TO 86+61 LT | 1 | | | | | | | | | | Rock Planter |
| 86+96 LT | 1 | | | | | | | | | | Bollard |
| 86+96 LT | 1 | | | | | | | | | | Bollard |
| 92+63 TO 92+65 LT | 1 | | | | | | | | | | Dealer Ramp |
| 92+85 LT | | | 1 | | | | | | | | Car Dealership |
| 93+18 OT 93+25 LT | 1 | | | | | | | | | | Dealer Ramp |
| 93+63 TO 93+70 LT | 1 | | | | | | | | | | Dealer Ramp |
| 94+01 TO 94+09 LT | 1 | | | | | | | | | | Dealer Ramp |
| 94+17 LT | | | 1 | | | | | | | | Car Dealership |
| 94+57 LT | | | 1 | | | | | | | | Car Dealership |
| 94+97 LT | | | 1 | | | | | | | | Car Dealership |
| 95+10 TO 95+18 LT | 1 | | | | | | | | | | Dealer Ramp |
| 95+50' LT | 1 | | | | | | | | | | Bollard |
| 95+50 TO 95+50 LT | | | | | 7 | | | | | | Retaining wall |
| PROJECT TOTAL | 13 | | 9 | | 7 | | 130 | | 1 | | |

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|--|------------|-----------------|----------------------|-------|---|----------------|---------------------------|-----------|--|------------------|
| Print Date: AT LEFT | RT 0000 | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | TABULATION OF REMOVALS | | | Project No./Code |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | | | TCSP M555-029 |
| Horiz. Scale: NA Vert. Scale: NA | | 10-16-15 | ADDENDUM ON 10-16-15 | JE | | Revised: | Designer: John Smith | Structure | | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | Numbers | | Sheet Number 22 |
| | | | | | Sheet Subset: Rem Tab | Subset Sheets: | 6 of 6 | | | |

TABULATION OF ADJUSTMENTS, MODIFICATIONS, AND RESETS

| STATION | OFFSET | SIDE | EACH | | | | | | | | | | | | | | LINEAL FEET | | | | COMMENTS | | |
|----------------------|--------|------|--------------------------------|----------|--------------------------------------|----------|-------------------------------|----------|----------------------------|-----------|----------------------------|----------|--------------------------|----------|------------------------------|----------|--------------------------------|----------|-------------------------|-------------|----------|---|----------------------------|
| | | | (210-00050) RESET FIRE HYDRANT | | (210-00065) RESET MONUMENT (TYPE 3A) | | (210-00810) RESET GROUND SIGN | | (210-00827) RESET PULL BOX | | (210-04010) ADJUST MANHOLE | | (210-04020) MODIFY INLET | | (210-04050) ADJUST VALVE BOX | | (210-04060) ADJUST WATER METER | | (210-01000) RESET FENCE | | | (210-01000) RESET FENCE (SPECIAL) (SAFETY SCREEN) | |
| | | | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | | Plan | As Const |
| NORTH AVE | | | | | | | | | | | | | | | | | | | | | | | |
| 60+46 | 3 | RT | | | | | | | 1 | | | | | | | | | | | | | | MEDIAN |
| 62+64 | 33 | LT | | | | | | | | | | | 1 | | | | | | | | | | PAPA JOHN |
| 63+93 | 0 | LT | | | | | | | 1 | | | | | | | | | | | | | | MEDIAN |
| 64+18 | 49 | LT | | | | | | | | | | 1 | | | | | | | | | | | OPTICAL CENTER |
| 64+93 | 40 | LT | 1 | | | | | | | | | | | | | | | | | | | | TAN PERFECTION |
| 65+67 | 51 | LT | | | | | | | | | | 1 | | | | | | | | | | | TAN PERFECTION |
| 65+69 | 50 | LT | | | 1 | | | | | | | | | | | | | | | | | | TAN PERFECTION |
| 66+24 TO 85+50 | 44 | RT | | | | | | | | | | | | | | | | 1926 | | | | | CHAIN LINK AT PARK |
| 67+15 TO 68+87 | 47 | RT | | | | | | | | | | | | | | | | | | 172 | | | GOLF COURSE SAFETY SCREEN |
| 67+31 | 5 | LT | | | | | | | | | | 1 | | | | | | | | | | | MEDIAN |
| 68+10 | 3 | RT | | | | | | | | | | 1 | | | | | | | | | | | MEDIAN |
| 69+12 | 33 | LT | | | | | | | | | | | | 1 | | | | | | | | | KARATE DOJO |
| 69+23 | 57 | LT | | | | | | | | | | | | | | 1 | | | | | | | KARATE DOJO |
| 69+33 | 2 | RT | | | | | | | | | | | | | 1 | | | | | | | | MEDIAN |
| 70+12 | 3 | RT | | | | | | | | | | | | | 1 | | | | | | | | MEDIAN |
| 70+19 | 3 | RT | | | TT | | | | | | | | | | 1 | | | | | | | | MEDIAN |
| 71+00 | 40 | LT | | | | | | | | | | 1 | | | | | | | | | | | 15th & NORTH AVE. |
| 72+32 | 66 | RT | | | | | | | | | | 1 | | | | | | | | | | | LINCOLN PARK |
| 72+54 | 47 | LT | 1 | | | | | | | | | | | | | | | | | | | | 15th & NORTH AVE. |
| 73+69 | 46 | LT | | | | | | | | | | | | | | | 1 | | | | | | OLD FAR EAST |
| 75+96 | 53 | LT | 1 | | | | | | | | | | | | | | | | | | | | MONUMENT INN |
| 77+22 | 41 | LT | | | | | | | | | | | | | | | 1 | | | | | | MONUMENT INN |
| 79+05 | 47 | LT | | | | | | | | | | | | | | | 1 | | | | | | BOOST MOBILE |
| 79+05 TO 80+66 | 47 | RT | | | | | | | | | | | | | | | | | | | 161 | | GOLF COURSE SAFETY SCREEN |
| 81+49 | 3 | LT | | | | | | | | | | 1 | | | | | | | | | | | MEDIAN |
| 81+77 TO 84+67 | 47 | RT | | | | | | | | | | | | | | | | | | | 290 | | GOLF COURSE SAFETY SCREEN |
| 83+15 | 5 | LT | | | | | | | | | | 1 | | | | | | | | | | | MEDIAN |
| 83+88 | 5 | LT | | | | | | | | | | 1 | | | | | | | | | | | MEDIAN |
| 84+32 | 7 | LT | | | | | | | | | | | | | 1 | | | | | | | | MEDIAN |
| 84+79 | 40 | LT | | | | | | 1 | | | | | | | | | | | | | | | LINCOLN PARK |
| 85+52 TO 85+52 | 60 | RT | | | | | | | | | | | | | | | | 10 | | | | | CHAIN LINK AT PARK |
| 85+52 TO 85+90 | 56 | RT | | | | | | | | | | | | | | | | 45 | | | | | SPLIT CEDAR FENCE AT VA |
| 85+65 | 31 | RT | | | | | | | | | | | 1 | | | | | | | | | | VA RT TURN LANE |
| 90+17 | 5 | LT | | | | | | | | | | | | | 1 | | | | | | | | MEDIAN |
| 90+23 | 44 | LT | | | | | | | | | | | | | | | 1 | | | | | | WENDY'S |
| 91+59 | 49 | LT | | | | | | | | | | | | | | | 1 | | | | | | AUTOMART |
| 91+88 | 49 | LT | 1 | | | | | | | | | | | | | | | | | | | | AUTOMART |
| 91+92 | 51 | LT | | | | | | 1 | | | | | | | | | | | | | | | AUTOMART |
| 92+05 | 0 | LT | | | 1 | | | | | | | | | | | | | | | | | | NORTH AVE. |
| 92+38 TO 93+28 | 51 | LT | | | | | | | | | | | | | | | | | 107 | | | | CABLE FFENCE AT CARVILLE'S |
| 93+61 TO 95+20 | 51 | LT | | | | | | | | | | | | | | | | | 158 | | | | CABLE FFENCE AT CARVILLE'S |
| 93+15 | 46 | LT | | | | | | | | | | 1 | | | | | | | | | | | CARVILLES |
| 93+66 | 46 | LT | | | | | | | | | | 1 | | | | | | | | | | | CARVILLES |
| 94+38 | 46 | LT | | | | | | | | | | 1 | | | | | | | | | | | CARVILLES |
| 95+12 | 46 | LT | | | | | | | | | | 1 | | | | | | | | | | | CARVILLES |
| 96+00 | 40 | LT | | | | | | | | | | | | | | | 1 | | | | | | IPWICH INN |
| 97+30 | 42 | LT | | | | | | | | | | | | | | | 1 | | | | | | IPWICH INN |
| 97+46 | 41 | LT | | | | | | 1 | | | | | | | | | | | | | | | IPWICH INN |
| 98+26 | 5 | LT | | | | | | | | | | 1 | | | | | | | | | | | MEDIAN |
| 98+39 | 44 | LT | 1 | | | | | | | | | | | | | | | | | | | | GAS STATION |
| 98+47 | 46 | LT | | | | | | | | | | 1 | | | | | | | | | | | GAS STATION |
| 98+52 | 52 | LT | | | | | | | | | | 1 | | | | | | | | | | | GAS STATION |
| PROJECT TOTAL | | | 5 | | 2 | | | 3 | | 14 | | 4 | | 3 | | 5 | | 8 | | 2246 | | 623 | |

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 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

**TABULATION OF
 ADJUSTMENTS, MODIFICATIONS,
 AND RESETS**

Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: tab util Subset Sheets: 1 of 1

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **23**

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SURFACING TABULATION

| STATION | SIDE | (304-06000) AGGREGATE BASE COURSE (CLASS 6) | | (403-00720) HOT MIX ASPHALT (PATCHING) (ASPHALT) | | (403-34841) HOT MIX ASPHALT (GRADING SX) (100) (PG 64-22) | | (403-34871) HOT MIX ASPHALT (GRADING SX) (100) (PG 76-28) | | (412-00600) CONCRETE PAVEMENT (6 INCH) | | (412-00800) CONCRETE PAVEMENT (8 INCH) | | COMMENTS |
|------------------------|-------|--|-----------|---|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--------------------------------|
| | | TON | | | | | | | | SY | | | | |
| | | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | |
| NORTH AVE. | | | | | | | | | | | | | | |
| 59+43 TO 59+73 | LT | 9 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" ABC |
| 59+59 TO 59+72 | RT | 4 | | | | | | | | | | | | CUMB RAMP/SIDEWALK 4" ABC |
| 59+70 TO 63+66 | RT | 38 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 61+89 TO 61+97 | LT | 1 | | | | | | | | | | 4 | | 8" PCCP / 6" ABC |
| 61+89 TO 62+71 | LT | 7 | | | | | | | | | | | | CURB 6" ABC |
| 62+24 TO 62+71 | LT | 7 | | | | | | | | | | 23 | | 8" PCCP / 6" ABC |
| 62+27 TO 62+63 | LT | 8 | | | | | | | | | | | | SIDEWALK 6" ABC |
| 62+34 TO 62+59 | LT | 18 | | | | 14 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 62+57 TO 62+66 | LT | 3 | | | | | | | | | | | | SIDEWALK 4" ABC |
| 62+63 TO 67+54 | LT | 97 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" & 6" ABC |
| 62+66 TO 62+92 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 63+27 TO 63+79 | LT | 10 | | | | | | | | | | 35 | | 8" PCCP / 6" ABC |
| 63+27 TO 64+29 | LT | 9 | | | | | | | | | | | | CURB 6" ABC |
| 64+21 TO 64+41 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 64+53 TO 64+94 | LT | 10 | | | | | | | | | | 25 | | 8" PCCP / 6" ABC |
| 64+64 TO 64+89 | LT | 10 | | | | 8 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 65+29 TO 65+94 | LT | 6 | | | | | | | | | | | | CURB 6" ABC |
| 65+45 TO 65-94 | LT | 9 | | | | | | | | | | 31 | | 8" PCCP / 6" ABC |
| 65+50 TO 65+85 | LT | 13 | | | | 10 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 66+07 TO 66+19 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 66+07 TO 67+07 | LT | 23 | | | | | | | | | | 76 | | 8" PCCP / 6" ABC |
| 66+18 TO 86+01 | RT | 357 | | | | | | | | | | | | SIDEWALK 4" ABC |
| 66+20 TO 66+95 | LT | 4 | | | | | | | | | | | | CURB 6" ABC |
| 66+42 TO 67+32 | LT | 9 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 66+96 TO 67+07 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 67+37 TO 67+48 | LT | 3 | | | | | | | | | | 6 | | 8" PCCP / 6" ABC |
| 68+09 TO 69+83 | LT&RT | 3 | | | | | | | | | | | | CURB 6" ABC |
| 68+86 TO 69+44 | LT | 13 | | | | | | | | | | | | SIDEWALK 4" & 6" ABC |
| 69+05 TO 69+35 | LT | 7 | | | | 5 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 69+05 TO 69+44 | LT | 11 | | | | | | | | | | 26 | | 8" PCCP / 6" ABC |
| 70+47 TO 72+07 | LT | 33 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" & 6" ABC |
| 70+73 TO 71+20 | LT | 13 | | | | | | | | | | 30 | | 8" PCCP / 6" ABC |
| 71+07 TO 71+89 | LT | 9 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 71+53 TO 71+91 | LT | 3 | | | | | | | | | | | | CURB 6" ABC |
| 71+56 TO 72+04 | LT | 32 | | | | 24 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 72+02 TO 72+08 | LT | 2 | | | | | | | | | | | | CURB 6" ABC |
| 72+48 TO 74+95 | LT | 52 | | | | | | | | | | | | SIDEWALK 4" ABC |
| 72+47 TO 72+48 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 72+61 TO 75+00 | LT | 20 | | | | | | | | | | | | CURB 6" ABC |
| SUB TOTAL SHT 1 | | 858 | | 0 | | 61 | | 0 | | 0 | | 256 | | |

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 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ



| Sheet Revisions | | |
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Colorado Department of Transportation

606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

| As Constructed | TABULATION OF SURFACING | |
|----------------|--------------------------|-----------------------|
| No Revisions: | Designer: John Smith | Structure Numbers |
| Revised: | Detailer: John Smith | |
| Void: | Sheet Subset: tab o surf | Subset Sheets: 1 of 3 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **24**

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SURFACING TABULATION

| STATION | SIDE | (304-06000) AGGREGATE BASE COURSE (CLASS 6) | | (403-00720) HOT MIX ASPHALT (PATCHING) (ASPHALT) | | (403-34841) HOT MIX ASPHALT (GRADING SX) (100) (PG 64-22) | | (403-34871) HOT MIX ASPHALT (GRADING SX) (100) (PG 76-28) | | (412-00600) CONCRETE PAVEMENT (6 INCH) | | (412-00800) CONCRETE PAVEMENT (8 INCH) | | COMMENTS |
|------------------------|-------|--|-----------|---|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--------------------------------|
| | | TON | | | | | | | | SY | | | | |
| | | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | |
| NORTH AVE. | | | | | | | | | | | | | | |
| 74+50 TO 75+31 | LT | 8 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 75+70 TO 76+25 | RT | 5 | | | | | | | | | | | | CURB 6" ABC |
| 75+94 TO 76+59 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 75+94 TO 78+73 | LT | 60 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" & 6" ABC |
| 76+08 TO 76+66 | LT | 5 | | | | | | | | | | | | CURB 6" ABC |
| 77+58 TO 78+00 | LT | 12 | | | | | | | | | | 26 | | 8" PCCP / 6" ABC |
| 77+60 TO 78+42 | LT | 8 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 77+69 TO 77+90 | LT | 3 | | | | 2 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 78+93 TO 79+39 | LT | 9 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" ABC |
| 79+08 TO 80+32 | LT | 10 | | | | | | | | | | | | CURB 6" ABC |
| 79+73 TO 83+33 | RT | 30 | | | | | | | | | | | | CURB 6" ABC |
| 80+19 TO 80+32 | LT | 2 | | | | | | | | | | 7 | | 8" PCCP / 6" ABC |
| 80+54 TO 80+64 | LT | 3 | | | | | | | | | | 7 | | 8" PCCP / 6" ABC |
| 81+81 TO 82+29 | LT | 9 | | | | | | | | | | 30 | | 8" PCCP / 6" ABC |
| 81+81 TO 83+22 | LT | 12 | | | | | | | | | | | | CURB 6" ABC |
| 81+88 TO 83+39 | LT | 31 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" & 6" ABC |
| 82+28 TO 83+20 | LT | 9 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 83+22 TO 83+33 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 83+39 TO 83+40 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 83+73 TO 89+51 | LT | 121 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" & 6" ABC |
| 83+83 TO 84+61 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 84+05 TO 84+25 | RT | 2 | | | | | | | | | | | | CURB 6" ABC |
| 84+25 TO 84+46 | RT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 84+25 TO 86+03 | RT | 74 | | | | | | | | | | 245 | | 8" PCCP / 6" ABC |
| 84+47 TO 85+98 | RT | 8 | | | | | | | | | | | | CURB 6" ABC |
| 84+56 TO 85+06 | LT | 14 | | | | | | | | | | 32 | | 8" PCCP / 6" ABC |
| 85+07 TO 85+66 | LT | 6 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 85+55 TO 85+96 | LT | 12 | | | | | | | | | | 26 | | 8" PCCP / 6" ABC |
| 85+63 TO 86+05 | LT&RT | | | | | | | 5 | | | | | | 2" THICK ASPHALT |
| 85+64 TO 85+66 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 85+65 TO 86+05 | LT&RT | 16 | | 7 | | | | | | | | | | 3" THICK ASPHALT / 6" ABC |
| 85+87 TO 88+22 | LT&RT | 5 | | | | | | | | | | | | CURB 6" ABC |
| 85+98 TO 86+01 | RT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 86+50 TO 86+63 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 86+54 TO 86+95 | LT | 11 | | | | | | | | | | 26 | | 8" PCCP / 6" ABC |
| 86+63 TO 86+85 | LT | 11 | | | | 8 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 86+96 TO 87+06 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 87+30 TO 87+75 | LT | 13 | | | | | | | | | | 30 | | 8" PCCP / 6" ABC |
| 87+40 TO 87+70 | LT | 10 | | | | | | | | 35 | | | | 6" PCCP / 6" ABC |
| 87+91 TO 88+39 | LT | 4 | | | | | | | | | | | | CURB 6" ABC |
| SUB TOTAL SHT 2 | | 532 | | 7 | | 10 | | 5 | | 35 | | 429 | | |

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

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|-----------------------|--------------------------------|--------------------------|-------------------------|
| As Constructed | TABULATION OF SURFACING | | Project No./Code |
| No Revisions: | | | TCSP M555-029 |
| Revised: | Designer: John Smith | Structure Numbers | 19365 |
| Void: | Detailer: John Smith | Sheet Subset: tab o surf | Sheet Number 25 |
| | Sheet Subset: tab o surf | Subset Sheets: 2 of 3 | |

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SURFACING TABULATION

| STATION | SIDE | (304-06000) AGGREGATE BASE COURSE (CLASS 6) | | (403-00720) HOT MIX ASPHALT (PATCHING) (ASPHALT) | | (403-34841) HOT MIX ASPHALT (GRADING SX) (100) (PG 64-22) | | (403-34871) HOT MIX ASPHALT (GRADING SX) (100) (PG 76-28) | | (412-00600) CONCRETE PAVEMENT (6 INCH) | | (412-00800) CONCRETE PAVEMENT (8 INCH) | | COMMENTS |
|------------------------|-------|--|-----------|---|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--------------------------------|
| | | TON | | | | | | | | SY | | | | |
| | | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | Plan | As Const. | |
| NORTH AVE. | | | | | | | | | | | | | | |
| 87+92 TO 88+35 | LT | 8 | | | | | | | | | | | 28 | 8" PCCP / 6" ABC |
| 87+97 TO 88+32 | LT | 6 | | | | | | | | 21 | | | | 6" PCCP / 6" ABC |
| 88+22 TO 88+34 | LT | | | | | | | 4 | | | | | | 2" THICK ASPHALT |
| 88+22 TO 89+02 | LT | 8 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 88+24 TO 88+32 | LT | 7 | | 4 | | | | | | | | | | 3" THICK ASPHALT / 6" ABC |
| 89+11 TO 89+51 | LT | 11 | | | | | | | | | | | 28 | 8" PCCP / 6" ABC |
| 90+06 TO 90+42 | LT | 9 | | | | | | | | | | | 22 | 8" PCCP / 6" ABC |
| 90+11 TO 91+37 | LT | 27 | | | | | | | | | | | | SIDEWALK 4" & 6" ABC |
| 90+36 TO 90+56 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 90+47 TO 90+98 | LT | 14 | | | | | | | | | | | 33 | 8" PCCP / 6" ABC |
| 90+92 TO 91+94 | LT | 2 | | | | | | | | | | | | CURB 6" ABC |
| 90+99 TO 91+76 | LT | 8 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 91+31 TO 91+76 | LT | 4 | | | | | | | | | | | | CURB 6" ABC |
| 91+70 TO 91+98 | LT | 5 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" ABC |
| 91+85 TO 92+10 | LT&RT | | | | | | | 2 | | | | | | 2" THICK ASPHALT |
| 91+87 TO 92+10 | LT&RT | 6 | | 3 | | | | | | | | | | 3" THICK ASPHALT / 6" ABC |
| 91+91 TO 92+40 | LT&RT | 2 | | | | | | | | | | | | CURB 6" ABC |
| 91+94 TO 91+99 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 92+21 TO 92+44 | LT&RT | 6 | | 3 | | | | | | | | | | 3" THICK ASPHALT / 6" ABC |
| 92+21 TO 92+46 | LT&RT | | | | | | | 2 | | | | | | 2" THICK ASPHALT |
| 92+38 TO 98+53 | LT | 130 | | | | | | | | | | | | CURB RAMP/SIDEWALK 4" & 6" ABC |
| 92+52 TO 93+25 | RT | 7 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 92+66 TO 93+85 | LT | 10 | | | | | | | | | | | | CURB 6" ABC |
| 93+25 TO 95+70 | RT | 4 | | | | | | | | | | | | CURB 6" ABC |
| 94+51 TO 94+62 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 94+51 TO 95+51 | LT | 22 | | | | | | | | | | | 73 | 8" PCCP / 6" ABC |
| 94+61 TO 95+39 | LT | 4 | | | | | | | | | | | | CURB 6" ABC |
| 94+89 TO 97+49 | LT | 4 | | | | | | | | | | | | CURB 6" ABC |
| 95+75 TO 96+31 | LT | 11 | | | | | | | | | | | 20 | 8" PCCP / 6" ABC |
| 95+39 TO 95+51 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 95+83 TO 97+16 | LT | 11 | | | | 8 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 96+70 TO 97+28 | LT | 6 | | | | | | | | | | | 21 | 8" PCCP / 6" ABC |
| 96+70 TO 98+37 | LT | 14 | | | | | | | | | | | | CURB 6" ABC |
| 97+16 TO 97+28 | LT | 1 | | | | | | | | | | | | CURB 6" ABC |
| 97+45 TO 97+85 | LT | 4 | | | | | | | | | | | 14 | 8" PCCP / 6" ABC |
| 97+49 TO 98+40 | LT | 9 | | | | | | | | | | | | MEDIAN COVER 6" ABC |
| 97+63 TO 97+80 | LT | 5 | | | | 3 | | | | | | | | 4" THICK ASPHALT / 6" ABC |
| 98+56 TO 98+61 | LT | 3 | | | | | | | | | | | 3 | 8" PCCP / 6" ABC |
| SUB TOTAL SHT 3 | | 372 | | 10 | | 11 | | 8 | | 21 | | 242 | | |
| SUB TOTAL SHT 1 | | 858 | | 0 | | 61 | | 0 | | 0 | | 256 | | |
| SUB TOTAL SHT 2 | | 532 | | 7 | | 10 | | 5 | | 35 | | 429 | | |
| PROJECT TOTAL | | 1762 | | 17 | | 82 | | 13 | | 56 | | 927 | | |

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

As Constructed

No Revisions:

Revised:

Void:

TABULATION OF SURFACING

Designer: John Smith Structure Numbers

Detailer: John Smith

Sheet Subset: tab o surf Subset Sheets: 3 of 3

Project No./Code

TCSP M555-029

19365

Sheet Number **26**

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TABULATION OF SIDEWALK, CURB AND GUTTER, MEDIAN COVER MATERIAL, & HAND RAIL - SECTION 1

| STATION | SIDE | (601-03000) CONCRETE (CLASS D) | | (514-00100) HAND RAIL | | (609-20000) CURB TYPE 2 (SECTION B) (SPECIAL) | | (609-20010) CURB TYPE 2 (SECTION B) | | (609-21010) CURB AND GUTTER TYPE 2 (SECTION I-B) | | (609-21020) CURB AND GUTTER TYPE 2 (SECTION II-B) | | (609-21900) CURB AND GUTTER TYPE 2 (SECTION II-B) (SPECIAL) | | COMMENTS |
|------------------------|-------|-----------------------------------|----------|--------------------------|----------|--|----------|---|----------|--|----------|---|----------|--|----------|----------|
| | | CUBIC YARDS | | LINEAR FEET | | | | | | | | | | | | |
| | | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | |
| NORTH AVE. | | | | | | | | | | | | | | | | |
| 59+43 TO 59+70 | LT | | | | | | | | | | | | | | 36 | |
| 59+50 TO 59+73 | LT | | | | | | | 32 | | | | | | | | |
| 59+59 TO 59+69 | RT | | | | | | | | | | | 15 | | | | |
| 61+89 TO 62+71 | LT | | | | | | | | | | | 83 | | | | |
| 62+57 TO 62+57 | LT | | | 32 | | | | | | | | | | | | |
| 62+57 TO 62+66 | LT | 5 | | | | | | | | | | | | | | |
| 62+63 TO 62+71 | LT | | | | | | | 12 | | | | | | | | |
| 62+66 TO 62+92 | LT | | | | | 26 | | | | | | | | | | |
| 63+27 TO 64+29 | LT | | | | | | | | | | | 103 | | | | |
| 64+21 TO 64+41 | LT | | | | | | | 20 | | | | | | | | |
| 64+53 TO 64+94 | LT | | | | | | | | | | | 40 | | | | |
| 65+29 TO 65+94 | LT | | | | | | | | | | | 66 | | | | |
| 66+07 TO 66+19 | LT | | | | | | | 13 | | | | | | | | |
| 66+20 TO 66+95 | LT | | | | | | | | | 77 | | | | | | |
| 66+96 TO 67+07 | LT | | | | | | | 13 | | | | | | | | |
| 67+33 TO 67+50 | LT | 1 | | | | | | | | | | | | | | |
| 67+37 TO 37+48 | LT | | | | | | | | | | | 11 | | | | |
| 68+09 TO 69+83 | LT&RT | | | | | | | 187 | | | | | | | | |
| 69+05 TO 69+44 | LT | | | | | | | | | | | 40 | | | | |
| 70+73 TO 71+20 | LT | | | | | | | | | | | 47 | | | | |
| 71+53 TO 71+91 | LT | | | | | | | | | | | 38 | | | | |
| 71+63 TO 71+71 | LT | | | | | | | 32 | | | | | | | | |
| 72+02 TO 72+08 | LT | | | | | | | | | | | | | 25 | | |
| 72+47 TO 72+48 | LT | | | | | | | | | | | | | 21 | | |
| 72+61 TO 75+00 | LT | | | | | | | | | | | 240 | | | | |
| 75+70 TO 76+25 | RT | | | | | | | | | | | 55 | | | | |
| 75+94 TO 76+59 | LT | | | | | | | 68 | | | | | | | | |
| 76+08 TO 76+66 | LT | | | | | | | | | | | 58 | | | | |
| 77+58 TO 78+00 | LT | | | | | | | | | | | 42 | | | | |
| 79+08 TO 80+32 | LT | | | | | | | | | | | 124 | | | | |
| 79+73 TO 83+33 | RT | | | | | | | | | | | 360 | | | | |
| 80+54 TO 80+64 | LT | | | | | | | | | | | 10 | | | | |
| 81+81 TO 83+22 | LT | | | | | | | | | | | 141 | | | | |
| 83+22 TO 83+33 | LT | | | | | | | 11 | | | | | | | | |
| 83+39 TO 83+40 | LT | | | | | | | | | | | | | 16 | | |
| 83+73 TO 83+74 | LT | | | | | | | | | | | | | 15 | | |
| 83+83 TO 84+61 | LT | | | | | | | 78 | | | | | | | | |
| 84+05 TO 84+25 | RT | | | | | | | | | | | 20 | | | | |
| 84+25 TO 84+46 | RT | | | | | | | 22 | | | | | | | | |
| 84+47 TO 85+98 | RT | | | | | | | | | 158 | | | | | | |
| 84+56 TO 85+06 | LT | | | | | | | | | | | 49 | | | | |
| 85+55 TO 85+96 | LT | | | | | | | | | | | 42 | | | | |
| 85+64 TO 85+66 | LT | | | | | | | 6 | | | | | | | | |
| 85+87 TO 88+22 | LT&RT | | | | | | | 307 | | | | | | | | |
| 85+98 TO 86+01 | RT | | | | | | | 14 | | | | | | | | |
| 86+50 TO 86+63 | LT | | | | | 15 | | | | | | | | | | |
| 86+54 TO 86+95 | LT | | | | | | | | | | | 41 | | | | |
| 86+96 TO 87+06 | LT | | | | | | | 11 | | | | | | | | |
| 87+30 TO 87+75 | LT | | | | | | | | | | | 45 | | | | |
| 87+91 TO 88+39 | LT | | | | | | | | | | | 48 | | | | |
| 89+11 TO 89+51 | LT | | | | | | | | | | | 40 | | | | |
| SUB TOTAL SHT 1 | | 6 | | 32 | | 52 | | 815 | | 235 | | 1758 | | 113 | | |

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation



606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

As Constructed

No Revisions:

Revised:

Void:

TABULATION OF SIDEWALK, CURB & GUTTER, MEDIAN COVER, & HAND RAIL

Designer: John Smith Structure Numbers

Detailer: John Smith

Sheet Subset: t sw,cg,mc Subset Sheets: 1 of 3

Project No./Code

TCSP M555-029

19365

Sheet Number **27**

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TABULATION OF SIDEWALK, CURB AND GUTTER AND MEDIAN COVER MATERIAL - SECTION 1

| STATION | SIDE | (601-03000) CONCRETE (CLASS D) | | (514-00100) HAND RAIL | | (609-20000) CURB TYPE 2 (SECTION B) (SPECIAL) | | (609-20010) CURB TYPE 2 (SECTION B) | | (609-21010) CURB AND GUTTER TYPE 2 (SECTION I-B) | | (609-21020) CURB AND GUTTER TYPE 2 (SECTION II-B) | | (609-21900) CURB AND GUTTER TYPE 2 (SECTION II-B) (SPECIAL) | | COMMENTS | | |
|------------------------|-------|-----------------------------------|----------|--------------------------|----------|--|----------|---|----------|--|----------|---|----------|--|----------|----------|-------------|----------|
| | | CUBIC YARDS | | | | LINEAR FEET | | | | | | | | | | | | |
| | | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | | Plan | As Const |
| NORTH AVE. | | | | | | | | | | | | | | | | | CURB 6" ABC | |
| 90+06 TO 90+42 | LT | | | | | | | | | | | | 35 | | | | CURB 6" ABC | |
| 90+36 TO 90+56 | LT | | | | | | | 20 | | | | | | | | | CURB 6" ABC | |
| 90+47 TO 90+98 | LT | | | | | | | | | | | | 51 | | | | CURB 6" ABC | |
| 90+92 TO 91+94 | LT | | | | | | | 107 | | | | | | | | | CURB 6" ABC | |
| 91+31 TO 91+76 | LT | | | | | | | | | | | | 44 | | | | CURB 6" ABC | |
| 91+91 TO 92+40 | LT&RT | | | | | | | 107 | | | | | | | | | CURB 6" ABC | |
| 91+94 TO 91+99 | LT | | | | | | | | | | | | | 18 | | | CURB 6" ABC | |
| 92+33 TO 92+38 | LT | | | | | | | | | | | | | 28 | | | CURB 6" ABC | |
| 92+38 TO 95+50 | LT | | | | | | | 316 | | | | | | | | | CURB 6" ABC | |
| 92+66 TO 93+85 | LT | | | | | | | | | | | | 119 | | | | CURB 6" ABC | |
| 93+25 TO 95+70 | RT | | | | | | | 245 | | | | | | | | | CURB 6" ABC | |
| 94+51 TO 94+62 | LT | | | | | | | 12 | | | | | | | | | CURB 6" ABC | |
| 94+61 TO 95+39 | LT | | | | | | | | | 78 | | | | | | | CURB 6" ABC | |
| 94+89 TO 97+49 | LT | | | | | | | 260 | | | | | | | | | CURB 6" ABC | |
| 95+39 TO 95+51 | LT | | | | | | | 12 | | | | | | | | | CURB 6" ABC | |
| 95+75 TO 96+31 | LT | | | | | | | | | | | | 55 | | | | CURB 6" ABC | |
| 96+70 TO 98+37 | LT | | | | | | | | | | | | 166 | | | | CURB 6" ABC | |
| 97+16 TO 97+28 | LT | | | | | | | 12 | | | | | | | | | CURB 6" ABC | |
| 98+58 TO 98+61 | LT | | | | | | | | | | | | | 26 | | | CURB 6" ABC | |
| SUB TOTAL SHT 2 | | 0 | | 0 | | 0 | | 1091 | | 78 | | 470 | | 72 | | | | |
| SUBTOTAL SHT 1 | | 6 | | 32 | | 52 | | 815 | | 235 | | 1758 | | 113 | | | | |
| PROJECT TOTAL | | 6 | | 32 | | 52 | | 1906 | | 313 | | 2228 | | 185 | | | | |

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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Colorado Department of Transportation

606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

| | | | |
|----------------|--|--------------------------|------------------------|
| As Constructed | TABULATION OF SIDEWALK, CURB & GUTTER, MEDIAN COVER, & HAND RAIL | | Project No./Code |
| No Revisions: | | | TCSP M555-029 |
| Revised: | Designer: John Smith | Structure Numbers | 19365 |
| Void: | Detailer: John Smith | Sheet Subset: t sw,cg,mc | Sheet Number 28 |
| | Subset Sheets: | 2 of 3 | |

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TABULATION OF SIDEWALK, CURB AND GUTTER AND MEDIAN COVER MATERIAL - SECTION 2

| STATION | SIDE | (608-00006) CONCRETE SIDEWALK (6 INCH) | | (608-00010) CONCRETE CURB RAMP | | (610-00020) MEDIAN COVER MATERIAL (PATTERNED CONCRETE) | | (621-00650) PEDESTRIAN STAIR STRUCTURE | | COMMENTS |
|----------------------|------|--|----------|--------------------------------------|----------|---|----------|--|----------|----------------------|
| | | SQUARE YARDS | | | | SQUARE FEET | | LUMP SUM | | |
| | | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | |
| NORTH AVE. | | | | | | | | | | |
| 59+44 TO 59+72 | LT | 25 | | | | | | | | 6" SIDEWALK |
| 59+47 TO 59+60 | LT | | | 2 | | | | | | CURB RAMP |
| 59+60 TO 59+69 | RT | 1 | | | | | | | | 6" SIDEWALK |
| 59+60 TO 59+72 | RT | | | 2 | | | | | | CURB RAMP |
| 59+70 TO 59+72 | RT | 1 | | | | | | | | 6" SIDEWALK |
| 59+70 TO 63+66 | RT | | | | | 1144 | | | | MEDIAN COVER |
| 62+27 TO 62+63 | LT | 26 | | | | | | | | 6" SIDEWALK |
| 62+57 TO 62+66 | LT | 18 | | | | | | | | 6" SIDEWALK |
| 62+57 TO 62+63 | LT | | | | | | | 1 | | RETAINING WALL |
| 62+63 TO 62+74 | LT | | | 3 | | | | | | STAIRS TO PAPA JOHNS |
| 62+74 TO 67+54 | LT | 421 | | | | | | | | CURB RAMP |
| 66+18 TO 86+01 | RT | 1797 | | | | | | | | 6" SIDEWALK |
| 66+42 TO 67+32 | LT | | | | | 260 | | | | 6" SIDEWALK |
| 67+33 TO 67+50 | LT | | | | | | | | | MEDIAN COVER |
| 68+86 TO 69+44 | LT | 50 | | | | | | | | RETAINING WALL |
| 70+47 TO 71+99 | LT | 135 | | | | | | | | 6" SIDEWALK |
| 71+07 TO 71+89 | LT | | | | | 232 | | | | 6" SIDEWALK |
| 71+99 TO 72+07 | LT | | | 4 | | | | | | MEDIAN COVER |
| 72+48 TO 72+52 | LT | 1 | | | | | | | | CURB RAMP |
| 72+48 TO 72+56 | LT | | | 3 | | | | | | 6" SIDEWALK |
| 72+56 TO 74+95 | LT | 250 | | | | | | | | CURB RAMP |
| 74+50 TO 75+31 | LT | | | | | 231 | | | | 6" SIDEWALK |
| 75+94 TO 78+63 | LT | 245 | | | | | | | | MEDIAN COVER |
| 77+60 TO 78+42 | LT | | | | | 245 | | | | 6" SIDEWALK |
| 78+63 TO 78+73 | LT | | | 3 | | | | | | MEDIAN COVER |
| 78+93 TO 79+05 | LT | | | 4 | | | | | | CURB RAMP |
| 79+05 TO 79+39 | LT | 30 | | | | | | | | CURB RAMP |
| 81+88 TO 83+38 | LT | 131 | | | | | | | | 6" SIDEWALK |
| 82+28 TO 83+20 | LT | | | | | 273 | | | | 6" SIDEWALK |
| 83+33 TO 83+39 | LT | | | 3 | | | | | | MEDIAN COVER |
| 83+74 TO 83+83 | LT | | | 5 | | | | | | CURB RAMP |
| 83+77 TO 89+51 | LT | 506 | | | | | | | | CURB RAMP |
| 85+07 TO 85+66 | LT | | | | | 184 | | | | 6" SIDEWALK |
| 85+84 TO 85+98 | RT | | | 3 | | | | | | MEDIAN COVER |
| 88+22 TO 89+02 | LT | | | | | 241 | | | | CURB RAMP |
| 90+11 TO 91+37 | LT | 110 | | | | | | | | MEDIAN COVER |
| 90+99 TO 91+76 | LT | | | | | 232 | | | | 6" SIDEWALK |
| 91+70 TO 91+98 | LT | 21 | | | | | | | | MEDIAN COVER |
| 91+93 TO 91+98 | LT | | | 2 | | | | | | 6" SIDEWALK |
| 92+34 TO 92+38 | LT | 3 | | | | | | | | CURB RAMP |
| 92+34 TO 92+39 | LT | | | 2 | | | | | | 6" SIDEWALK |
| 92+38 TO 98+53 | LT | 539 | | | | | | | | CURB RAMP |
| 92+52 TO 93+25 | RT | | | | | 206 | | | | 6" SIDEWALK |
| 97+49 TO 98+40 | LT | | | | | 263 | | | | MEDIAN COVER |
| 98+50 TO 98+60 | LT | | | 5 | | | | | | CURB RAMP |
| PROJECT TOTAL | | 4310 | | 41 | | 3511 | | 1 | | |

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 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

| | | | |
|-----------------------|---|--------------------------|-------------------------|
| As Constructed | TABULATION OF SIDEWALK, CURB & GUTTER, MEDIAN COVER, & HAND RAIL | | Project No./Code |
| No Revisions: | | | TCSP M555-029 |
| Revised: | Designer: John Smith | Structure Numbers | 19365 |
| Void: | Detailer: John Smith | Sheet Subset: t sw,cg,mc | Sheet Number 29 |
| | Subset Sheets: | 3 of 3 | |

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TABULATION OF DRAINAGE REMOVALS

| STATION | TO STATION | OFFSET | SIDE | (202-00019) REMOVAL OF INLET | | (202-00033) REMOVAL OF PIPE | | COMMENTS |
|----------------------|------------|--------|------|------------------------------------|----------|--------------------------------|----------|----------------|
| | | | | EA | | LF | | |
| | | | | Plan | As Const | Plan | As Const | |
| NORTH AVE. | | | | | | | | |
| 85+24 | | 40 | LT | 1 | | | | TIMBERS MOTEL |
| 87+02 | | 43 | LT | 1 | | | | FRONTIER MOTEL |
| 88+28 | 88+43 | | LT | | | 24 | | FRONTIER MOTEL |
| PROJECT TOTAL | | | | 2 | | 24 | | |

TABULATION OF DRAINAGE ITEMS

| STATION | OFFSET | SIDE | STRUCTURE NUMBER | | (603-00120) | | (603-50008) | | (604-00305) | | (604-13006) | | (604-30005) | | COMMENTS |
|----------------------|----------|------|------------------|------------|--------------------------------------|------|---------------------|------|-----------------------|------|----------------------------------|------|----------------------------|--|------------------------------------|
| | | | FROM | TO | 12 INCH NON-REINFORCED CONCRETE PIPE | | 8 INCH PLASTIC PIPE | | INLET TYPE C (5 FOOT) | | INLET TYPE 13 (5 FOOT) (SPECIAL) | | MANHOLE SLAB BASE (5 FOOT) | | |
| | | | | | LF | | LF | | EA | | EA | | EA | | |
| Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | Plan | As Const | | |
| NORTH AVE. | | | | | | | | | | | | | | | |
| 77+44.63 | 48.68 | LT | | A2 | | | | | | | 1 | | | | INLET A1 |
| 77+44.63 | | | A1 | A3 | | | 54 | | | | | | | | PIPE A2 |
| 76+91.13 | 48.63 | LT | A2 | A4 | | | | | | | 1 | | | | INLET A3 |
| 76+91.13 | | | A3 | A5 | | | 11 | | | | | | | | INLET A4 |
| 76+91.12 | 38.05 | LT | A4 | A6 | | | | | | | | | 1 | | MANHOLE A5 |
| 76+91.12 | | | A5 | E1-271-088 | 97 | | | | | | | | | | PIPE A6 (CONNECT TO EX. STRUCTURE) |
| 84+95.65 | 39.85 | LT | | B2 | | | | 1 | | | | | | | INLET B1 |
| 84+95.65 | | | B1 | B3 | 29 | | | | | | | | | | B2 |
| 85+24.14 | 37.84 | LT | B2 | | | | | 1 | | | | | | | INLET B3 (CONNECT TO EX. 10" RCP) |
| 87+00.54 | 51.97 | LT | | C2 | | | | 1 | | | | | | | INLET C1 |
| 87+00.54 | | | C1 | C3 | 12 | | | | | | | | | | PIPE C2 |
| 87+01.64 | 37.85 | LT | C2 | | | | | 1 | | | | | | | INLET C3 (CONNECT TO EX. 8" CMP) |
| 88+28.19 | 54.44 | LT | | D2 | | | | 1 | | | | | | | INLET D1 |
| 88+22.19 | | | D1 | D3 | 20 | | | | | | | | | | PIPE D2 |
| 88+28.23 | 34.34 | LT | D2 | D4 | | | | 1 | | | | | | | INLET D3 |
| 88+28+23 | | | D3 | D5 | 20 | | | | | | | | | | PIPE D4 |
| 88+28.27 | 13.9 | LT | D4 | | | | | | | | | 1 | | | MANHOLE D5 |
| PROJECT TOTAL | | | | | 178 | | 65 | | 6 | | 2 | | 2 | | |

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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 Grand Junction, CO, 81501
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

TABULATION OF DRAINAGE
 REMOVALS & DRAINAGE ITEMS

Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: tab o drn Subset Sheets: 1 of 1

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **30**

TABULATION OF FINAL SIGNING

| STATION | OFFSET | DIMENSIONS | SIGN CODE | LEGEND | (202-00821) REMOVAL OF SIGN PANEL | | (210-00815) RESET SIGN PANEL | | (614-01503) STEEL SIGN SUPPORT (2" ROUND) (POST & SOCKET) | | NOTES |
|----------------------|-----------|------------|-----------|----------------------------------|--------------------------------------|----------|---------------------------------|----------|--|----------|--|
| | | | | | EACH | EACH | EACH | EACH | EACH | EACH | |
| | | | | | Plan | As Const | Plan | As Const | Plan | As Const | |
| SUBSET SHT 1 | | | | | | | | | | | |
| SUBSET SHT 2 | | | | | | | | | | | |
| 67+51 | 45' LEFT | 30 X 30 | R1-1 | STOP | | | | | 1 | 1 | STOP SIGN RESET AT ALLEY |
| 67+65 | 36' RIGHT | 48 X 24 | W1-7 | TWO-DIRECTION LARGE ARROW | | | | | 1 | 1 | FACING NORTH, SOUTH OF ALLEY |
| SUBSET SHT 3 | | | | | | | | | | | |
| 75+68 | 37' RIGHT | 48 X 24 | W1-7 | TWO-DIRECTION LARGE ARROW | | | | | 1 | 1 | FACING NORTH, SOUTH OF 16TH STREET |
| SUBSET SHT 4 | | | | | | | | | | | |
| 83+36 | 53' LEFT | 48 X 12 | D3-1 | STREET NAME (18TH ST) | | | | | 1 | 1 | AT 18TH STREET |
| 83+36 | 53' LEFT | 48 X 12 | D3-1 | STREET NAME (NORTH AVE) | | | | | 1 | | AT 18TH STREET |
| 83+36 | 53' LEFT | 30 X 30 | R1-1 | STOP | | | | | 1 | | AT 18TH STREET |
| 83+58 | 38' RIGHT | 48 X 24 | W1-7 | TWO-DIRECTION LARGE ARROW | | | | | 1 | 1 | FACING NORTH, SOUTH OF 18TH STREET |
| 86+59 | 3' RIGHT | 24 X 24 | R3-4 | MOVEMENT PROHIBITION - NO U TURN | 1 | | | | | | AT BULLNOSE OF MEDIAN VA WESTERLY ENTRANCE |
| 86+75 | 40' RIGHT | 36 X 48 | R2-1 | SPEED LIMIT (35 MPH) | | | | | 1 | 1 | EASTBOUND SPEED LIMIT SIGN EAST OF 18TH |
| SUBSET SHT 5 | | | | | | | | | | | |
| 91+54 | 6' LEFT | 24 X 24 | R3-4 | MOVEMENT PROHIBITION - NO U TURN | | | | | 1 | 1 | RESET TO NEW POST AT 92+25 |
| 91+92 | 51' LEFT | 48 X 12 | D3-1 | STREET NAME (21ST ST) | | | | | 1 | 1 | AT 21ST STREET |
| 91+92 | 51' LEFT | 48 X 12 | D3-1 | STREET NAME (NORTH AVE) | | | | | 1 | | AT 21ST STREET |
| 91+92 | 51' LEFT | 30 X 30 | R1-1 | STOP | | | | | 1 | | AT 21ST STREET |
| SUBSET SHT 6 | | | | | | | | | | | |
| 97+46 | 41' LEFT | 36 X 48 | R2-1 | SPEED LIMIT (35 MPH) | | | | | 1 | 1 | WESTBOUND WEST OF 23RD NORTH SIDE OF NORTH AVE |
| PROJECT TOTAL | | | | | 1 | | 13 | | 9 | | |

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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | Tabulation of Final Signing | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | | | TCSP M555-029 | |
| Horiz. Scale: 1:50 Vert. Scale: NA | | | | | | Revised: | | Designer: John Smith | Structure Numbers | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | | Detailer: John Smith | Sheet Subset: Tab Sign | Subst Sheets: 1 of 1 | Sheet Number 31 |

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TABULATION OF PAVEMENT MARKING

| STATION | OFFSET | (627-00001) PAVEMENT MARKING PAINT | | (627-30405) PREFORMED THERMOPLASTIC PAVEMENT MARKING (RIGHT TURN ARROW) | | (627-30405) PREFORMED THERMOPLASTIC PAVEMENT MARKING (ACCESSIBILITY PARKING SPACE MARKING) | |
|--------------------|--------|------------------------------------|-----------------------|---|-----------------------|--|-----------------------|
| | | EDGE | LANE | SF | SF | SF | SF |
| | | WHITE SOLID 4 INCH | WHITE SOLID 8 INCH | PLAN | As Constructed | PLAN | As Constructed |
| NORTH AVE | | | | | | | |
| 68+98, 54' LT | LT | | | 16 | | | |
| 71+55 TO 72+05 | LT | 717 | | | | | |
| 71+69, 98' LT | LT | | | | | 16 | |
| 71+69, 270' LT | LT | | | | | 16 | |
| 71+80, 287' LT | LT | | | | | 16 | |
| 75+93 TO 76+62 | LT | 773 | | | | | |
| 76+50, 57' LT | LT | | | | | 16 | |
| 84+90, 37' RT | RT | | | 16 | | | |
| 85+70, 37' RT | RT | | | 16 | | | |
| 84+75 TO 85+75 | RT | | 100 | | | | |
| TOTAL (LF) | | 1,490 | 100 | | | | |
| TOTAL (SF) | | 497 | 67 | 48 | | 64 | |
| TOTAL (GAL) | | 5.5 | 0.7 | | | | |
| | | PROJECT TOTAL (GAL) | | PROJECT TOTAL (SF) | | PROJECT TOTAL (SF) | |
| | | Plan | As Constructed | Plan | As Constructed | Plan | As Constructed |
| | | 6 | | 48 | | 64 | |

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 Horiz. Scale: NA Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation

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Region 3 RBB

As Constructed

No Revisions:

Revised:

Void:

TABULATION OF PAVEMENT MARKINGS

| | |
|------------------------|-----------------------|
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: tab mark | Subset Sheets: 1 of 1 |

Project No./Code

TCSP M555-029

19365

Sheet Number **32**

TABULATION OF CONSTRUCTION TRAFFIC CONTROL DEVICES

| SIGN CODE | SIGN PANEL SIZE | | | LEGEND | (630-80341) CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A) | | (630-80342) CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B) | |
|-------------------------|-----------------|---|----|--|--|----------|--|----------|
| | W" | x | H" | | EACH | | EACH | |
| | | | | | Plan | As Const | Plan | As Const |
| W20-7a | 48 | x | 48 | FLAGGER AHEAD (SYMBOL) | | | 4 | |
| R2-1 (20) | 36 | x | 48 | SPEED / LIMIT / 20 | 4 | | | |
| W21-5 | 36 | x | 36 | SHOULDER / WORK | 4 | | | |
| W9-1 | 36 | x | 36 | RIGHT LAND ENDS | 4 | | | |
| G20-10 | 48 | x | 48 | XYZ / CONSTRUCTION / THANKS / 555-555-5555 | | | 4 | |
| R52-6a | 36 | x | 48 | BEGIN / FINES / DOUBLE / IN WORK / ZONE | | | 4 | |
| G20-5AP | 24 | x | 18 | WORK ZONE | 4 | | | |
| R52-6b | 36 | x | 48 | END / FINES / DOUBLE / IN WORK / ZONE | | | 4 | |
| W4-2 | 36 | x | 36 | LANE ENDS (SYMBOL) | 4 | | | |
| R1-1 | 30 | x | 30 | STOP | 2 | | | |
| PROJECT TOTALS = | | | | | 22 | | 16 | |

| ITEM NUMBER | ITEM DESCRIPTION | UNIT | PLAN QUANTITY | AS CONST. |
|-------------|---|------|---------------|-----------|
| 630-00000 | FLAGGING | HOUR | 500 | |
| 630-00007 | TRAFFIC CONTROL INSPECTION | DAY | 54 | |
| 630-00012 | TRAFFIC CONTROL MANAGEMENT | DAY | 96 | |
| 630-80336 | BARRICADE (TYPE 3 M-B)(TEMPORARY) | EACH | 10 | |
| 630-80358 | ADVANCED WARNING FLASHING ARROW PANEL (TYPE C) | DAY | 250 | |
| 630-80359 | PORTABLE MESSAGE SIGN PANEL | DAY | 60 | |
| 630-80360 | DRUM CHANNELIZING DEVICE | EACH | 80 | |
| 630-80363 | DRUM CHANNELIZING DEVICE (WITH LIGHT)(FLASHING) | EACH | 80 | |
| 630-80380 | TRAFFIC CONE | EACH | 160 | |
| 630-80377 | PORTABLE WATER FILLED BARRIER (TEMPORARY) | LF | 50 | |

SCHEDULE OF CONSTRUCTION SIGN PANEL (SPECIAL) 630-80344

| ITEM | EACH | | QUANTITY EACH | TOTAL SQ. FT. | AS CONST. |
|----------------|-----------|---------|---------------|---------------|-----------|
| | DIMENSION | SQ. FT. | | | |
| 18th ST / ROAD | 42" x 18" | | 2 | 10.5 | |
| 21st ST / ROAD | 42" x 18" | | 2 | 10.5 | |
| TOTAL | | | | 21 | |

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 Horiz. Scale: AS SHOWN Vert. Scale: AS SHOWN
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

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 Region 3 RBB

| As Constructed | Tabulation of Construction Traffic Control Devices | | Project No./Code |
|----------------|--|-----------------------|------------------------|
| No Revisions: | Designer: | Structure Numbers | TCSP M555-029 |
| Revised: | Detailer: | | 19365 |
| Void: | Sheet Subset: tab sign | Subset Sheets: 1 of 1 | Sheet Number 33 |

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

| | | |
|--|------------|------------|
| <input type="checkbox"/> Horizontal Control | Format * | Plan Sheet |
| <input type="checkbox"/> Vertical Control | Plan Sheet | |
| <input type="checkbox"/> Roadway Alignment | Plan Sheet | |
| <input type="checkbox"/> Original Terrain Data | Plan Sheet | |
| <input type="checkbox"/> Other: | | |

* Specify the information format, ie., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- Landscaping
- Signalization
- Safety Improvement
- Asphalt Overlay
- Concrete Overlay
- Minor Widening
- Major Reconstruction (Intersection Reconstruction)
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: Sidewalk & Drive Reconstruction, Bus Pullout, Right Turn Lane, and Streetscaping

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- Verification and Maintenance of Horizontal and Vertical Control
- Verify or Determine existing grades and alignments
- Verify or Determine existing topography
- GPS/RTS (Global Positioning System/Robotic Total Station) Construction Machine Control
- Clearing and Grubbing Limits (Section 201)
- Removal Limits (Section 202)
- Reset Items (Section 210)
- Excavation and Embankment (Section 203)

- Excavation
 - Unclassified
 - Stripping
 - Muck
 - Rock
 - Borrow
 - Other: _____
 - Potholing

- Embankment
- Site Grading
- Erosion Control (Perm)
- Other: _____
- As Staked Earthwork Quantities

- Landscaping
 - Top Soil (Section 207)
 - Seeding (Section 212)
 - Mulching (Section 213)
 - Planting (Section 214)
 - Herbicide (Section 217)
 - Other: _____
- Erosion Control (Section 208)
 - Seeding (Temp)
 - Silt Fence
 - Erosion Bales
 - Erosion Logs
 - Riprap (Temp)
 - Other: _____

- Roadway Bases
 - Untreated Subgrade
 - Treated Subgrade
 - Aggregate Base Course (Section 304)
 - Reconditioning
 - PMBB - Plant Mix Bituminous Base
 - Other: _____

| | Slope Staking (Y/N) | Grid (Y/N) | Grade (Y/N) | Special Interval |
|--|---------------------|------------|-------------|------------------|
| | | | | |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |

| | Slope Staking (Y/N) | Grid (Y/N) | Grade (Y/N) | Special Interval |
|--|---------------------|------------|-------------|------------------|
| | | | | |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |

| | Grid (Y/N) | Grade (Y/N) | Special Interval | Special Offset |
|--|------------|-------------|------------------|----------------|
| | | | | |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |

- Pavements
 - HMA - Hot Mix Asphalt (Section 403)
 - Concrete (Section 412)
 - Heating & Scarifying Treatment
 - Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
 - Seal Coat or Chip Seal (Section 409)
 - Other: _____

| Pavements | Grid (Y/N) | Special Interval | Special Offset |
|-----------|------------|------------------|----------------|
| | | | |
| | - | - | - |
| | - | - | - |
| | - | - | - |

- Roadway Elements
 - Curb and Gutter (Section 609)
 - Drop inlets - alignment and grades (Section 604)
 - Retaining Walls
 - Guard Rail (Section 606)
 - Sidewalk (Section 608)
 - Overlay Stationing
 - Other: _____

| Curb & Gutter | Tangent Interval | Curve Interval | Special Offset |
|---------------|------------------|----------------|----------------|
| | | | |
| | - | - | - |

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

| Stationing | Left Interval | Center Interval | Right Interval |
|------------|---------------|-----------------|----------------|
| | | | |
| | - | - | - |

- Minor Structures
 - Structure Excavation limits (Section 206)
 - Culverts (Section 603)
 - Culverts w/ Headwalls and Wingwalls (Section 601)
 - Concrete Box Culverts w/ Headwalls and Wingwalls
 - Pipes (Section 603)
 - Sanitary Sewer
 - Storm Sewer
 - Water
 - Irrigation
 - Miscellaneous
 - Manholes (Section 604)
 - Inlets (Section 604)
 - Permanent Water Quality BMP (Section 208)
 - Other: _____

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
 - Structure Excavation limits (Section 206)
 - Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 - Piling locations and cut off elevations (Section 502)
 - Caisson locations and elevations (Section 503)
 - Footing locations, alignment, and elevations
 - Abutment/Pier locations, alignment, and elevations
 - Wingwall skew angles/offsets
 - Structural concrete form locations
 - Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
 - Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 - Deck grades at Girder 10th or "n" th point locations and elevations
 - Slope and Ditch Paving (Section 507)
 - Other: _____

- Fencing (Section 607)
 - Temporary
 - Permanent
 - Sound Barrier
 - Other: _____

- Delineators (Section 612)
 - Temporary
 - Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
 - Signal pole locations and elevations
 - Light pole locations and elevations
 - Sign locations
 - Field verify sign post locations, elevations, and lengths before fabrication.
 - Other: _____

- Pavement Marking (Section 627)
 - Striping (Temp)
 - Striping (Perm)
 - Symbols
 - Other: _____
- Temporary Lighting and Construction Traffic Control Devices (Section 630)
 - Signal pole locations and elevations (Temp)
 - Light pole locations and elevations (Temp)
 - Sign Locations (Temp)
 - Other: _____
- All Easements (Temp Staking by P.L.S. Only)
- Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- Monumentation (Section 629)
 - Control
 - Right of Way
 - Land corners, Aliquot corners
 - Easements
 - Reference the specified existing monuments: ** _____
 - Replace the specified existing monuments: ** _____
 - Locate monuments. It is estimated _____ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:


- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 14 days prior to the Pre-Construction Meeting.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
 - Horizontal Control (Primary & Secondary)
 - Vertical Control (i.e. Benchmarks)
 - Property Pin Ties
 - Horizontal Alignment
 - Grading
 - Slope Staking
 - Minor Structures
 - Major Structures
 - One fieldbook for each work category shown on this sheet
 - Other Fieldbook(s): _____

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| Print Date: AT LEFT |
| File Name: SURVEY TABULATION |
| Horiz. Scale: AS SHOWN AS SHOWN |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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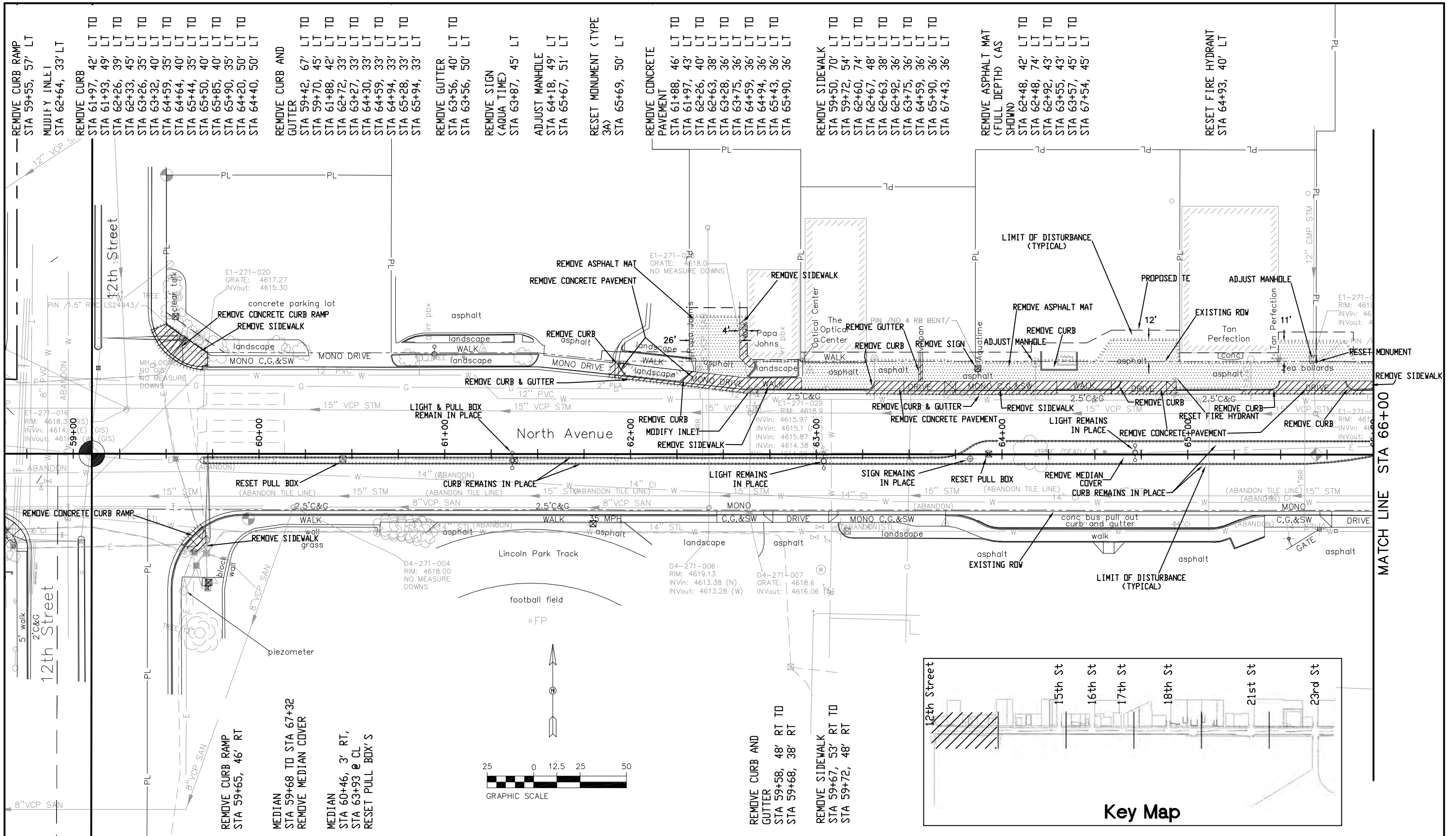
Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| SURVEY TABULATIONS | |
|------------------------|-------------------|
| Designer: John C Smith | Structure Numbers |
| Detailer: John C Smith | |
| Sheet Subset: SURV TAB | Subset Sheets: - |

| |
|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 34 |

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 Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | | |
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| Date: | Comments | Init. | |
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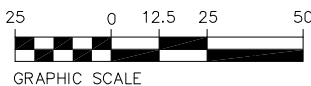
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

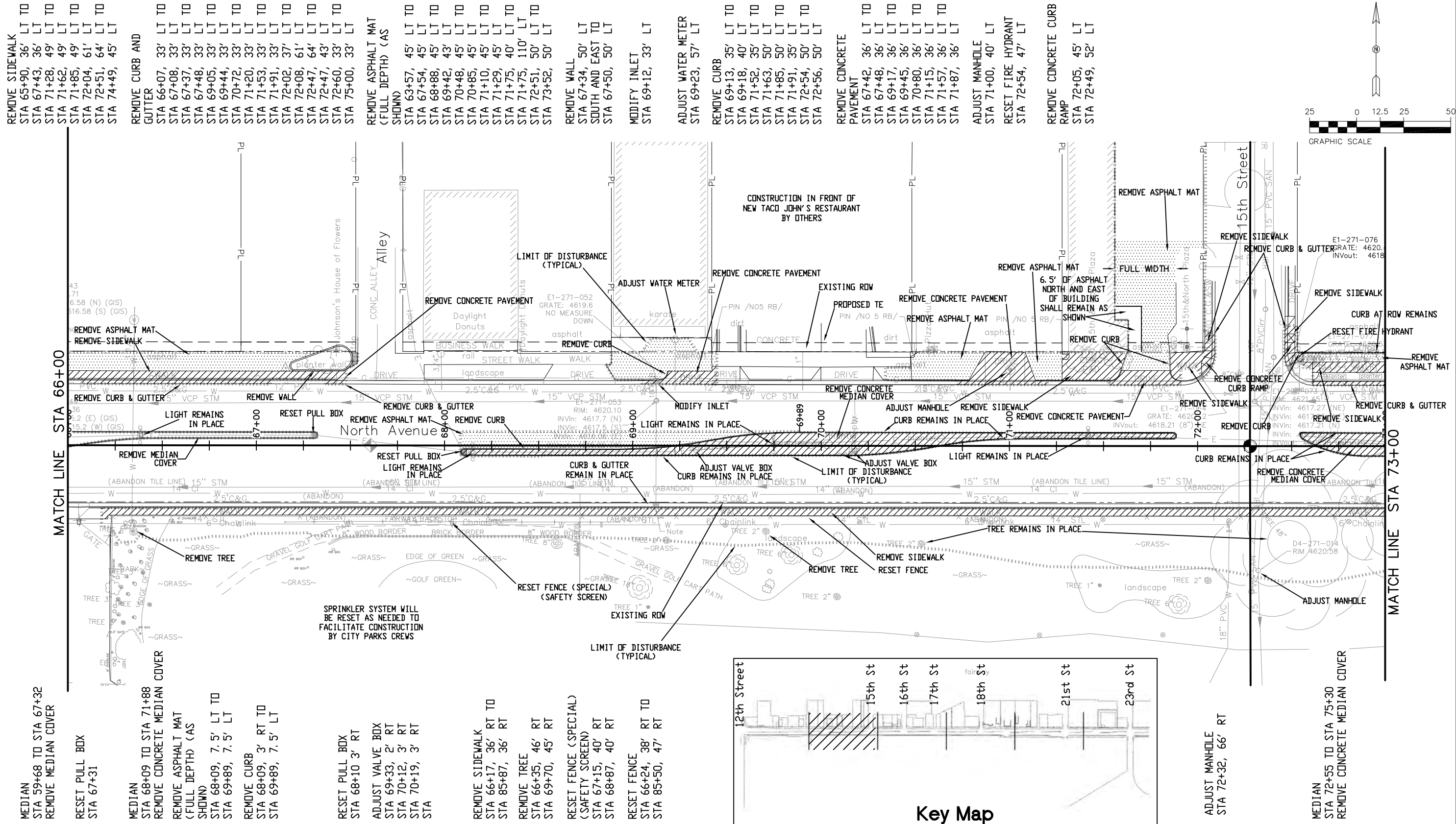
| Removal Plan | | |
|-----------------------|-------------------|--------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: Removal | Subset Sheets: | 1 of 6 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 35

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REMOVE SIDEWALK
STA 65+90, 36' LT TO
STA 67+43, 36' LT TO
STA 71+28, 49' LT TO
STA 71+62, 49' LT TO
STA 71+85, 49' LT TO
STA 72+04, 61' LT TO
STA 72+51, 64' LT TO
STA 74+49, 45' LT

REMOVE CURB AND
GUTTER
STA 66+07, 33' LT TO
STA 67+08, 33' LT TO
STA 67+37, 33' LT TO
STA 67+48, 33' LT TO
STA 69+05, 33' LT TO
STA 69+44, 33' LT TO
STA 70+72, 33' LT TO
STA 71+20, 33' LT TO
STA 71+53, 33' LT TO
STA 71+91, 33' LT TO
STA 72+02, 37' LT TO
STA 72+08, 61' LT TO
STA 72+47, 64' LT TO
STA 72+47, 43' LT TO
STA 72+60, 33' LT TO
STA 75+00, 33' LT

REMOVE ASPHALT MAT
(FULL DEPTH) (AS
SHOWN)
STA 63+57, 45' LT TO
STA 67+54, 45' LT TO
STA 68+88, 45' LT TO
STA 69+42, 43' LT TO
STA 70+48, 45' LT TO
STA 70+85, 45' LT TO
STA 71+10, 45' LT TO
STA 71+29, 45' LT TO
STA 71+75, 40' LT TO
STA 71+75, 110' LT TO
STA 72+51, 50' LT TO
STA 73+52, 50' LT

REMOVE WALL
STA 67+34, 50' LT
SOUTH AND EAST TO
STA 67+50, 50' LT

MODIFY INLET
STA 69+12, 33' LT

ADJUST WATER METER
STA 69+23, 57' LT

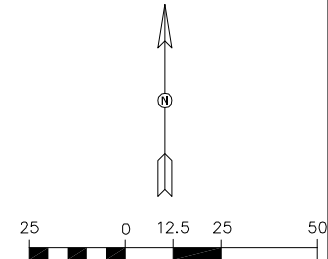
REMOVE CURB
STA 69+13, 35' LT TO
STA 69+18, 40' LT TO
STA 71+32, 35' LT TO
STA 71+63, 50' LT TO
STA 71+85, 50' LT TO
STA 71+91, 35' LT TO
STA 72+34, 50' LT TO
STA 72+56, 50' LT

REMOVE CONCRETE
PAVEMENT
STA 67+42, 36' LT TO
STA 67+48, 36' LT TO
STA 69+17, 36' LT TO
STA 69+45, 36' LT TO
STA 70+80, 36' LT TO
STA 71+15, 36' LT TO
STA 71+57, 36' LT TO
STA 71+87, 36' LT

ADJUST MANHOLE
STA 71+00, 40' LT

RESET FIRE HYDRANT
STA 72+54, 47' LT

REMOVE CONCRETE CURB
RAMP
STA 72+05, 45' LT
STA 72+49, 52' LT



MEDIAN
STA 59+68 TO STA 67+32
REMOVE MEDIAN COVER

RESET PULL BOX
STA 67+31

MEDIAN
STA 68+09 TO STA 71+88
REMOVE CONCRETE MEDIAN COVER
REMOVE ASPHALT MAT
(FULL DEPTH) (AS
SHOWN)
STA 68+09, 7.5' LT TO
STA 69+89, 7.5' LT

REMOVE CURB
STA 68+09, 3' RT TO
STA 69+89, 7.5' LT

RESET PULL BOX
STA 68+10 3' RT

ADJUST VALVE BOX
STA 69+33, 2' RT
STA 70+12, 3' RT
STA 70+19, 3' RT
STA

REMOVE SIDEWALK
STA 66+17, 36' RT TO
STA 85+87, 36' RT

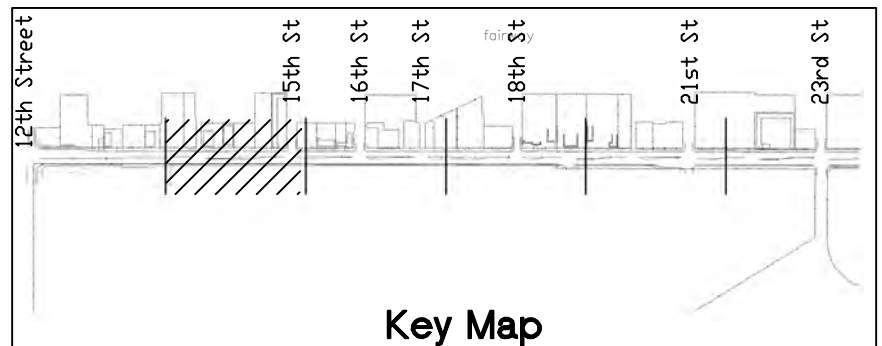
REMOVE TREE
STA 66+35, 46' RT
STA 69+70, 45' RT

RESET FENCE (SPECIAL)
(SAFETY SCREEN)
STA 67+15, 40' RT
STA 68+87, 40' RT

RESET FENCE
STA 66+24, 38' RT TO
STA 85+50, 47' RT


ADJUST MANHOLE
STA 72+32, 66' RT

MEDIAN
STA 72+55 TO STA 75+30
REMOVE CONCRETE MEDIAN COVER



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| Horiz. Scale: 1:50 |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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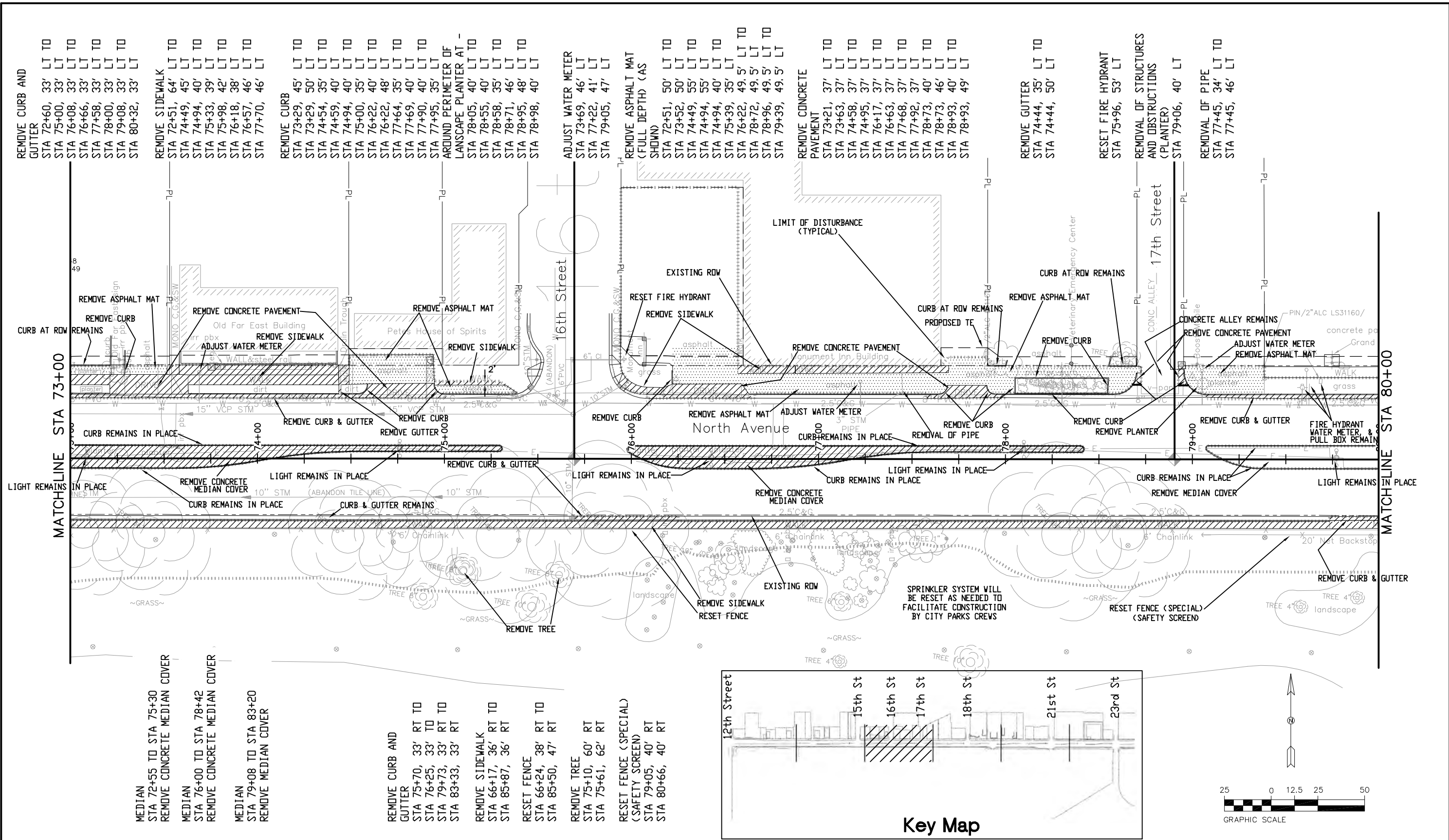
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| |
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| | |
|-----------------------|-----------------------|
| Removal Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | Subset Sheets: 2 of 6 |
| Sheet Subset: removal | |

| |
|------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 36 |

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| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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| No Revisions: |
| Revised: |
| Void: |

| | |
|-----------------------|-----------------------|
| Removal Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | Subset Sheets: 3 of 6 |
| Sheet Subset: removal | |

| |
|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 37 |

MEDIAN
STA 72+55 TO STA 75+30
REMOVE CONCRETE MEDIAN COVER

MEDIAN
STA 76+00 TO STA 78+42
REMOVE CONCRETE MEDIAN COVER

MEDIAN
STA 79+08 TO STA 83+20
REMOVE MEDIAN COVER

REMOVE CURB AND GUTTER
STA 75+70, 33' RT TO
STA 76+25, 33' TO
STA 79+73, 33' RT TO
STA 83+33, 33' RT

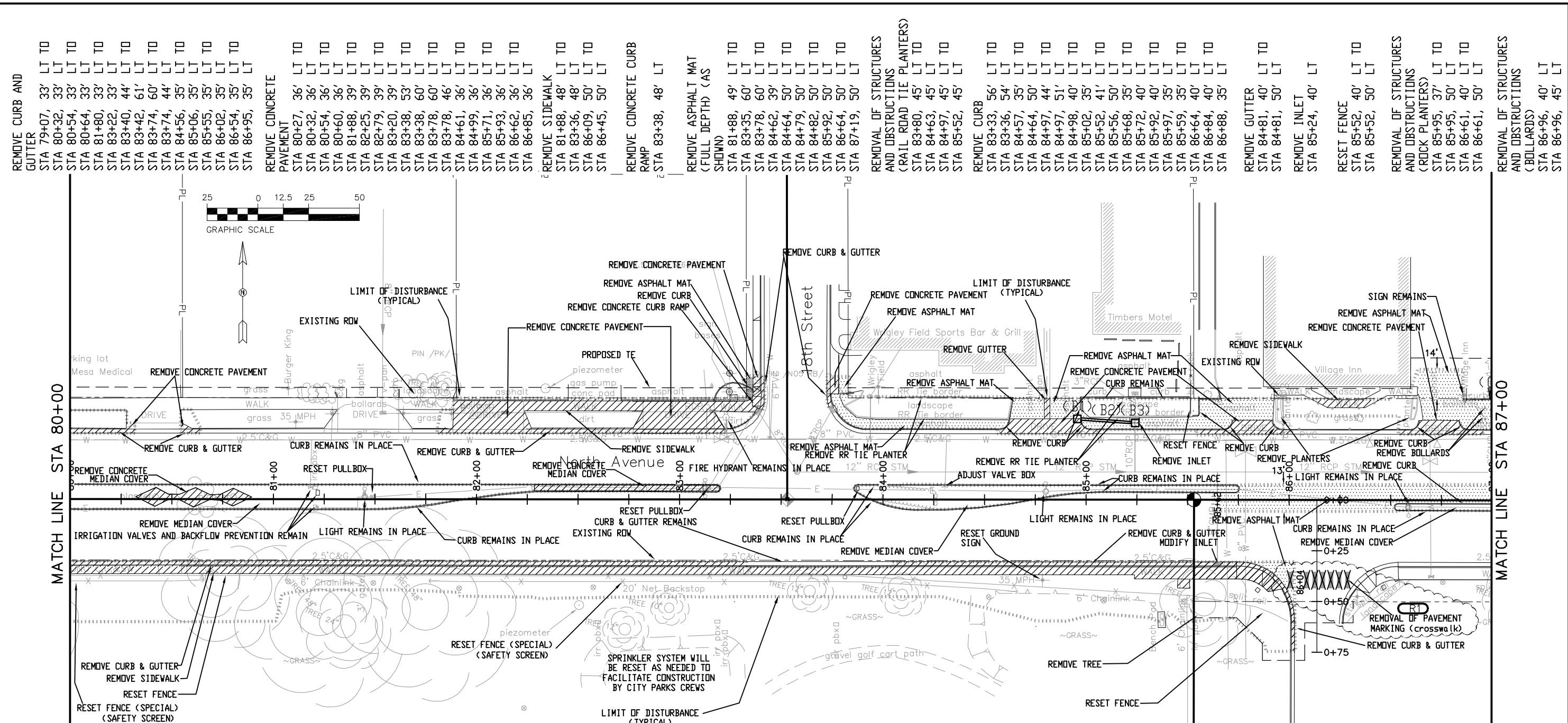
REMOVE SIDEWALK
STA 66+17, 36' RT TO
STA 85+87, 36' RT

RESET FENCE
STA 66+24, 38' RT TO
STA 85+50, 47' RT

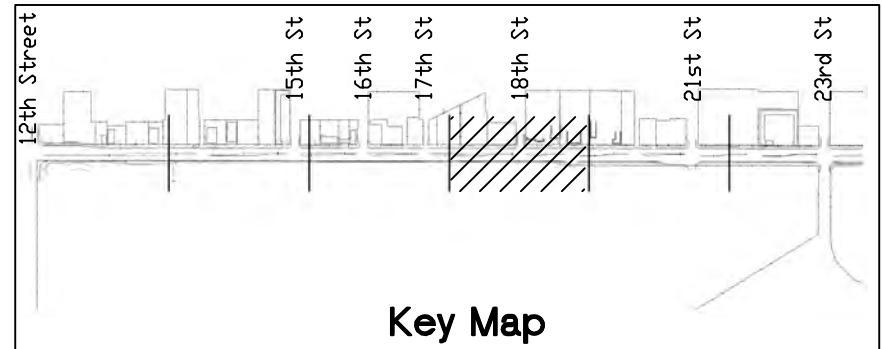
REMOVE TREE
STA 75+10, 60' RT
STA 75+61, 62' RT

RESET FENCE (SPECIAL) (SAFETY SCREEN)
STA 79+05, 40' RT
STA 80+66, 40' RT

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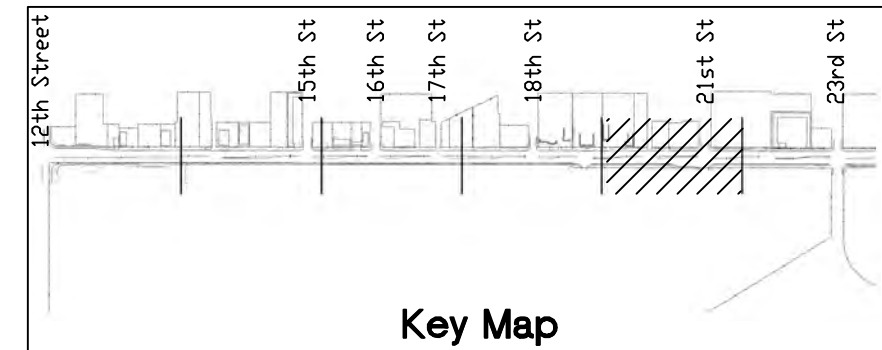
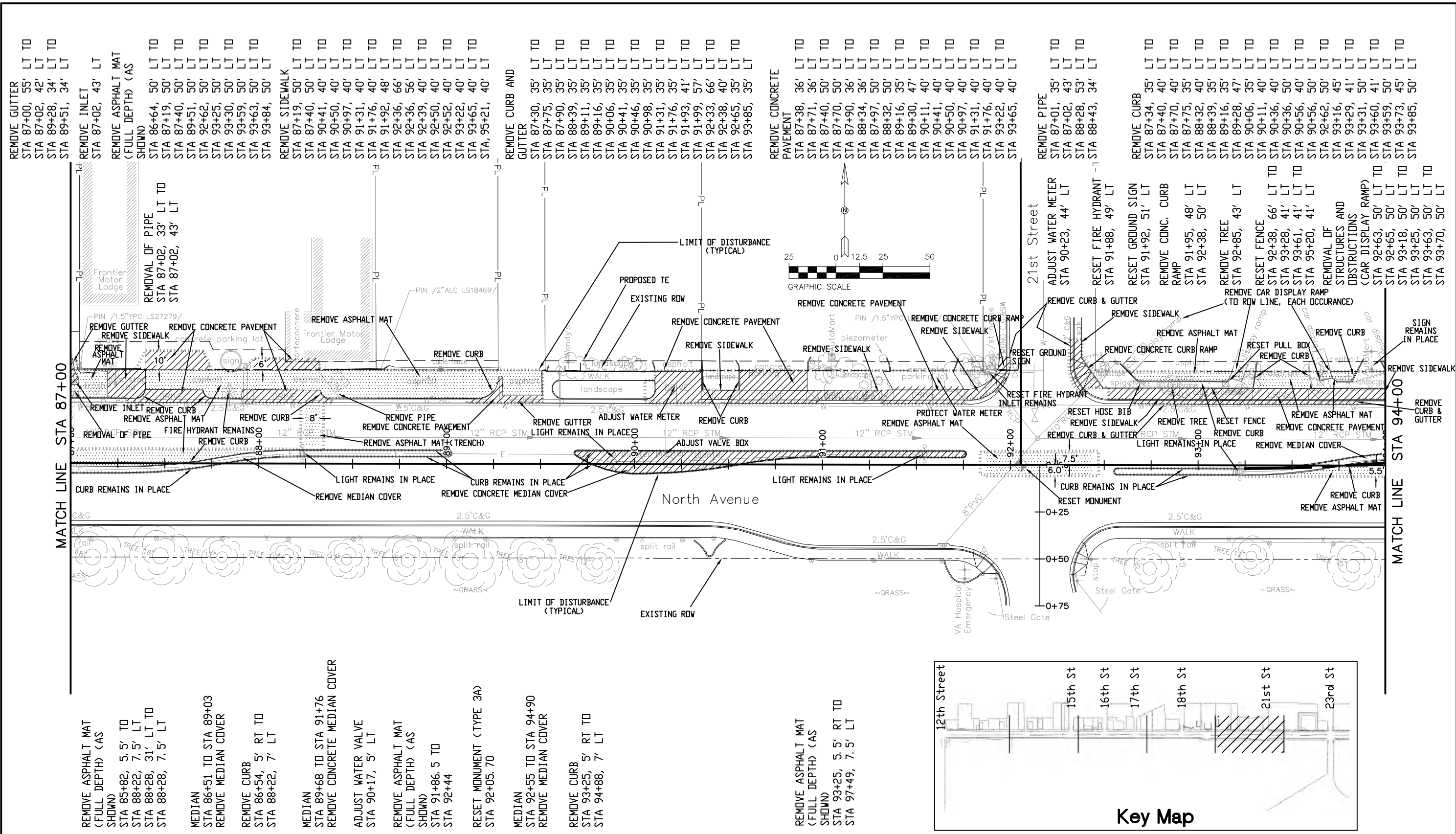


- MEDIAN STA 79+08 TO STA 83+20 REMOVE MEDIAN COVER
- REMOVE CONCRETE MEDIAN COVER STA 80+32 TO STA 80+90
- RESET PULLBOX STA 81+49
- STA 83+15
- MEDIAN STA 83+86 TO STA 85+75 REMOVE MEDIAN COVER
- RESET PULLBOX STA 83+88
- ADJUST VALVE BOX STA 84+32
- REMOVE ASPHALT MAT (FULL DEPTH) (AS SHOWN) STA 85+62, 5.5' RT TO STA 88+22, 7.5' LT
- MEDIAN STA 86+51 TO STA 89+03 REMOVE MEDIAN COVER
- REMOVE CURB STA 86+54, 5' RT TO STA 88+22, 7' LT
- REMOVE TREE STA 85+58, 51' RT
- REMOVE CURB AND GUTTER STA 79+73, 33' RT TO STA 83+33, 33' RT TO STA 84+05, 33' RT TO STA 86+02, 74' RT
- REMOVE SIDEWALK STA 66+17, 36' RT TO STA 85+87, 36' RT
- RESET FENCE STA 66+24, 38' RT TO STA 85+50, 60' RT
- RESET FENCE STA 85+50, 47' RT TO STA 86+00, 60' RT
- MODIFY INLET STA 85+65, 31' RT
- RESET FENCE (SPECIAL) (SAFETY SCREEN) STA 79+05, 40' RT STA 80+66, 40' RT STA 81+77, 40' RT TO STA 84+67, 45' RT
- RESET GROUND SIGN STA 84+79, 40' RT
- REMOVE ASPHALT MAT (FULL DEPTH) (AS SHOWN) STA 85+75, 31' RT TO STA 86+04, 55' RT



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| File Name: AT LEFT | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:50 Vert. Scale: NA | 10-16-15 | ADDENDUM ON 10-16-15 | JE | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 | | Void: | | Sheet Subset: | | Sheet Number 38 | |
| | | | | | | | | Subset Sheets: 4 of 6 | | | |

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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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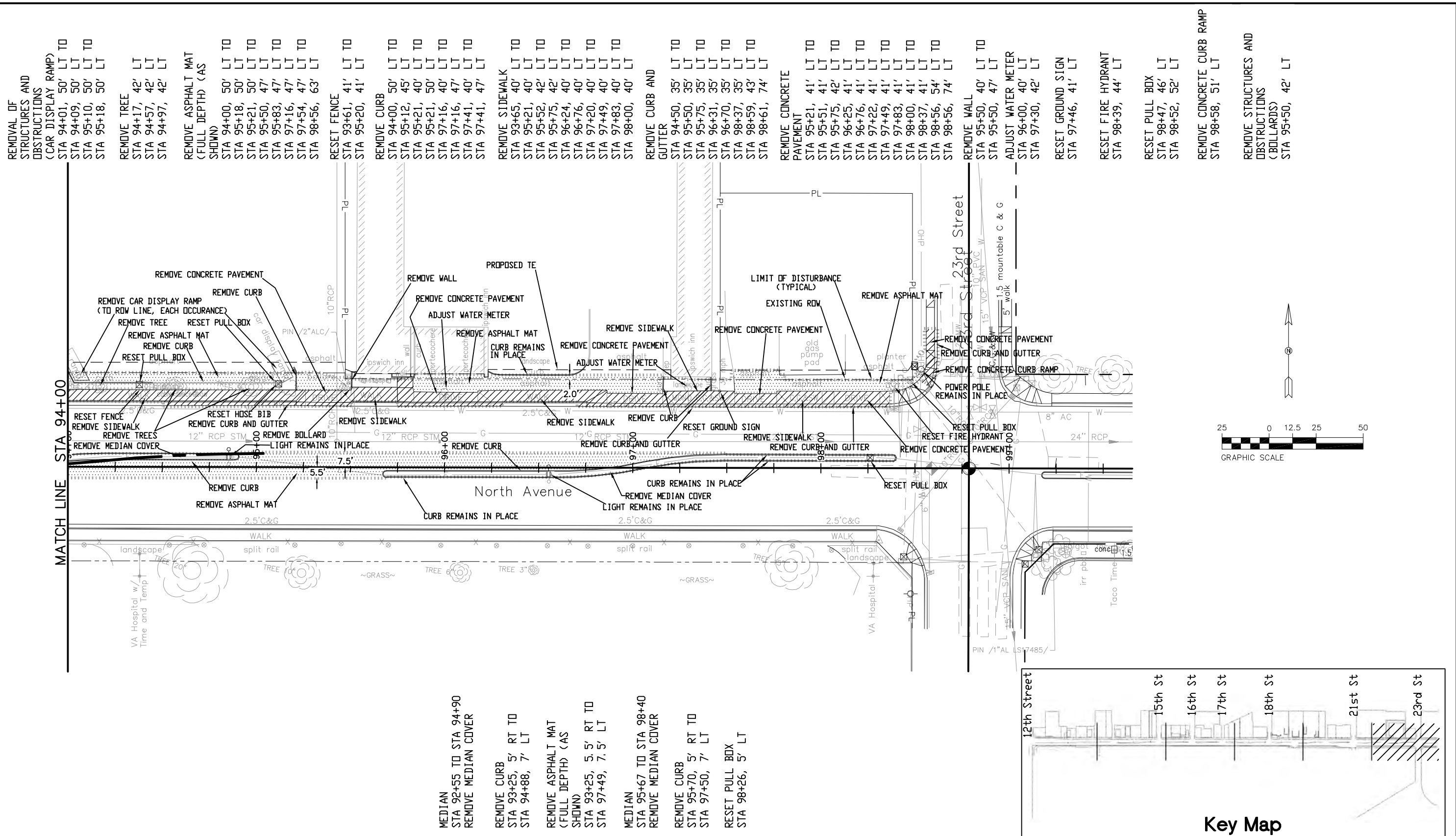
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| No Revisions: |
| Revised: |
| Void: |

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| Removal Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | Subset Sheets: 5 of 6 |
| Sheet Subset: removal | |

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|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 39 |

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REMOVAL OF STRUCTURES AND OBSTRUCTIONS (CAR DISPLAY RAMP)
 STA 94+01, 50' LT TO
 STA 94+09, 50' LT TO
 STA 95+10, 50' LT TO
 STA 95+18, 50' LT TO

REMOVE TREE
 STA 94+17, 42' LT
 STA 94+57, 42' LT
 STA 94+97, 42' LT

REMOVE ASPHALT MAT (FULL DEPTH) (AS SHOWN)
 STA 94+00, 50' LT TO
 STA 95+18, 50' LT TO
 STA 95+21, 50' LT TO
 STA 95+50, 47' LT TO
 STA 95+83, 47' LT TO
 STA 97+16, 47' LT TO
 STA 98+56, 63' LT TO

RESET FENCE
 STA 93+61, 41' LT TO
 STA 95+20, 41' LT TO

REMOVE CURB
 STA 94+00, 50' LT TO
 STA 95+12, 45' LT TO
 STA 95+21, 40' LT TO
 STA 95+21, 50' LT TO
 STA 97+16, 40' LT TO
 STA 97+16, 47' LT TO
 STA 97+41, 40' LT TO
 STA 97+41, 47' LT TO

REMOVE SIDEWALK
 STA 93+65, 40' LT TO
 STA 95+21, 40' LT TO
 STA 95+52, 42' LT TO
 STA 95+75, 42' LT TO
 STA 96+24, 40' LT TO
 STA 97+20, 40' LT TO
 STA 97+49, 40' LT TO
 STA 97+83, 40' LT TO
 STA 98+00, 40' LT TO

REMOVE CURB AND GUTTER
 STA 94+50, 35' LT TO
 STA 95+50, 35' LT TO
 STA 95+51, 41' LT TO
 STA 95+75, 35' LT TO
 STA 96+31, 35' LT TO
 STA 96+70, 35' LT TO
 STA 98+37, 35' LT TO
 STA 98+59, 43' LT TO
 STA 98+61, 74' LT TO

REMOVE CONCRETE PAVEMENT
 STA 95+21, 41' LT TO
 STA 95+51, 41' LT TO
 STA 95+75, 42' LT TO
 STA 96+25, 41' LT TO
 STA 96+76, 41' LT TO
 STA 97+22, 41' LT TO
 STA 97+49, 41' LT TO
 STA 98+00, 41' LT TO
 STA 98+37, 41' LT TO
 STA 98+56, 54' LT TO
 STA 98+56, 74' LT TO

REMOVE WALL
 STA 95+50, 40' LT TO
 STA 95+50, 47' LT TO

ADJUST WATER METER
 STA 96+00, 40' LT TO
 STA 97+30, 42' LT TO

RESET GROUND SIGN
 STA 97+46, 41' LT TO

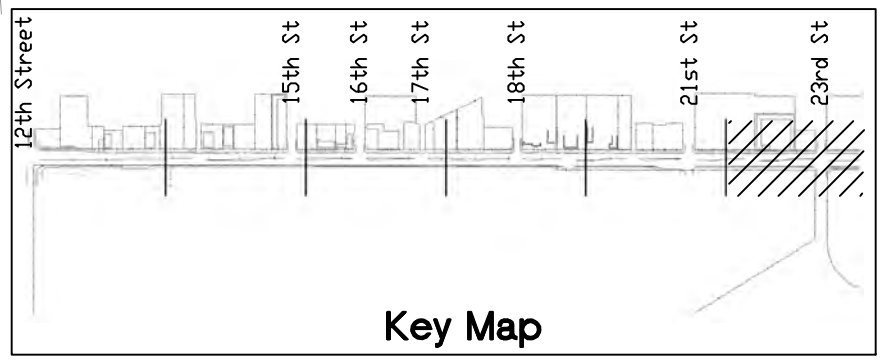
RESET FIRE HYDRANT
 STA 98+39, 44' LT TO

RESET PULL BOX
 STA 98+47, 46' LT TO
 STA 98+52, 52' LT TO

REMOVE CONCRETE CURB RAMP
 STA 98+58, 51' LT TO

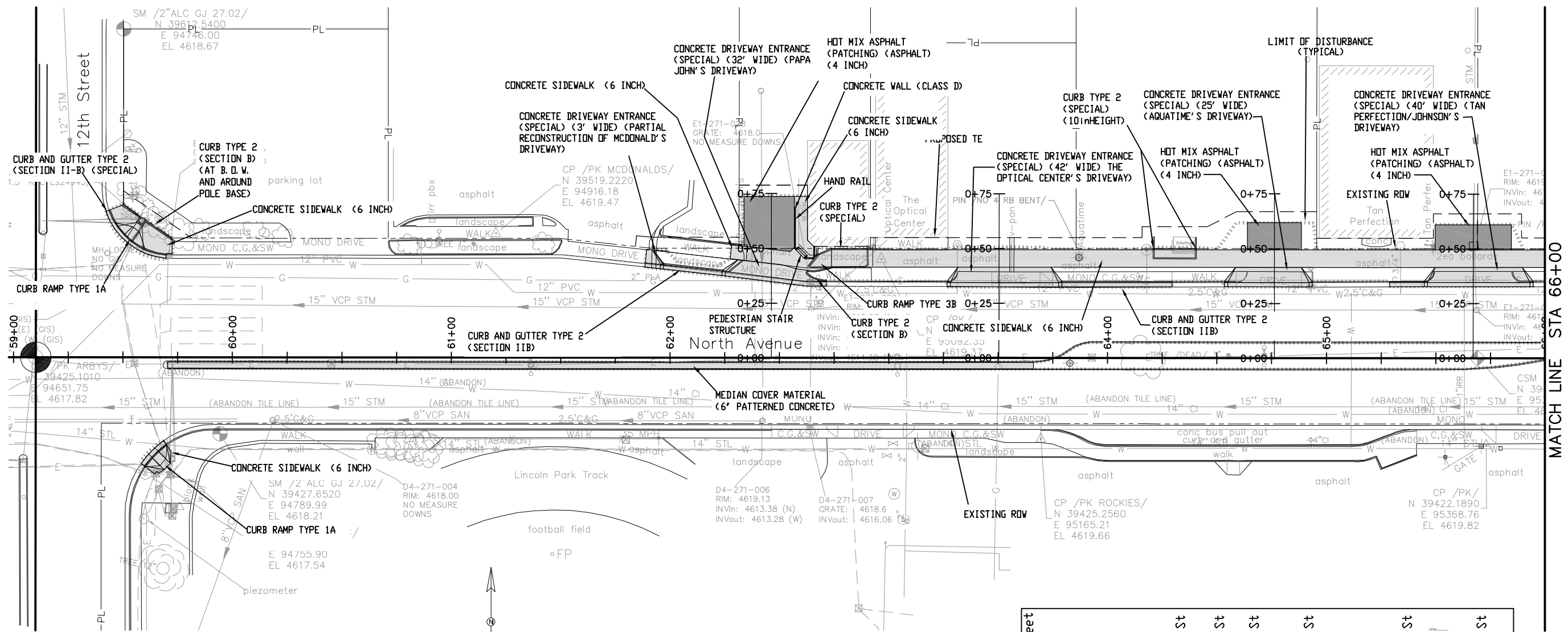
REMOVE STRUCTURES AND OBSTRUCTIONS (BOLLARDS)
 STA 95+50, 42' LT TO

- MEDIAN
 STA 92+55 TO STA 94+90
 REMOVE MEDIAN COVER
- REMOVE CURB
 STA 93+25, 5' RT TO
 STA 94+88, 7' LT
- REMOVE ASPHALT MAT (FULL DEPTH) (AS SHOWN)
 STA 93+25, 5.5' RT TO
 STA 97+49, 7.5' LT
- MEDIAN
 STA 95+67 TO STA 98+40
 REMOVE MEDIAN COVER
- REMOVE CURB
 STA 95+70, 5' RT TO
 STA 97+50, 7' LT
- RESET PULL BOX
 STA 98+26, 5' LT

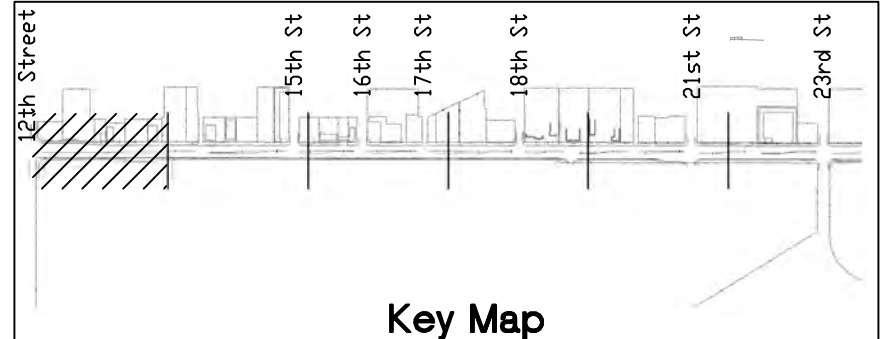
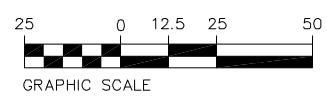


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| File Name: AT LEFT | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: Revised: Void: | | Designer: John Smith Detailer: John Smith Sheet Subset: removal | | TCSP M555-029 | |
| Horiz. Scale: 1:50 | | | | | | | | | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | | | Sheet Number 40 | |
| | | | | Region 3 | | RBB | | Subset Sheets: 6 of 6 | | 6 of 6 | |

SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



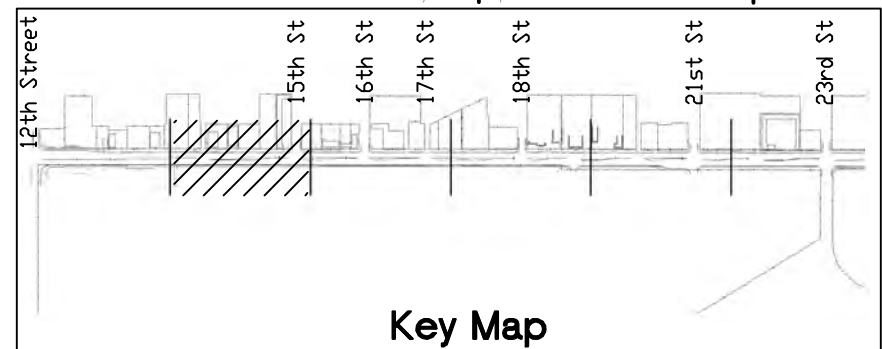
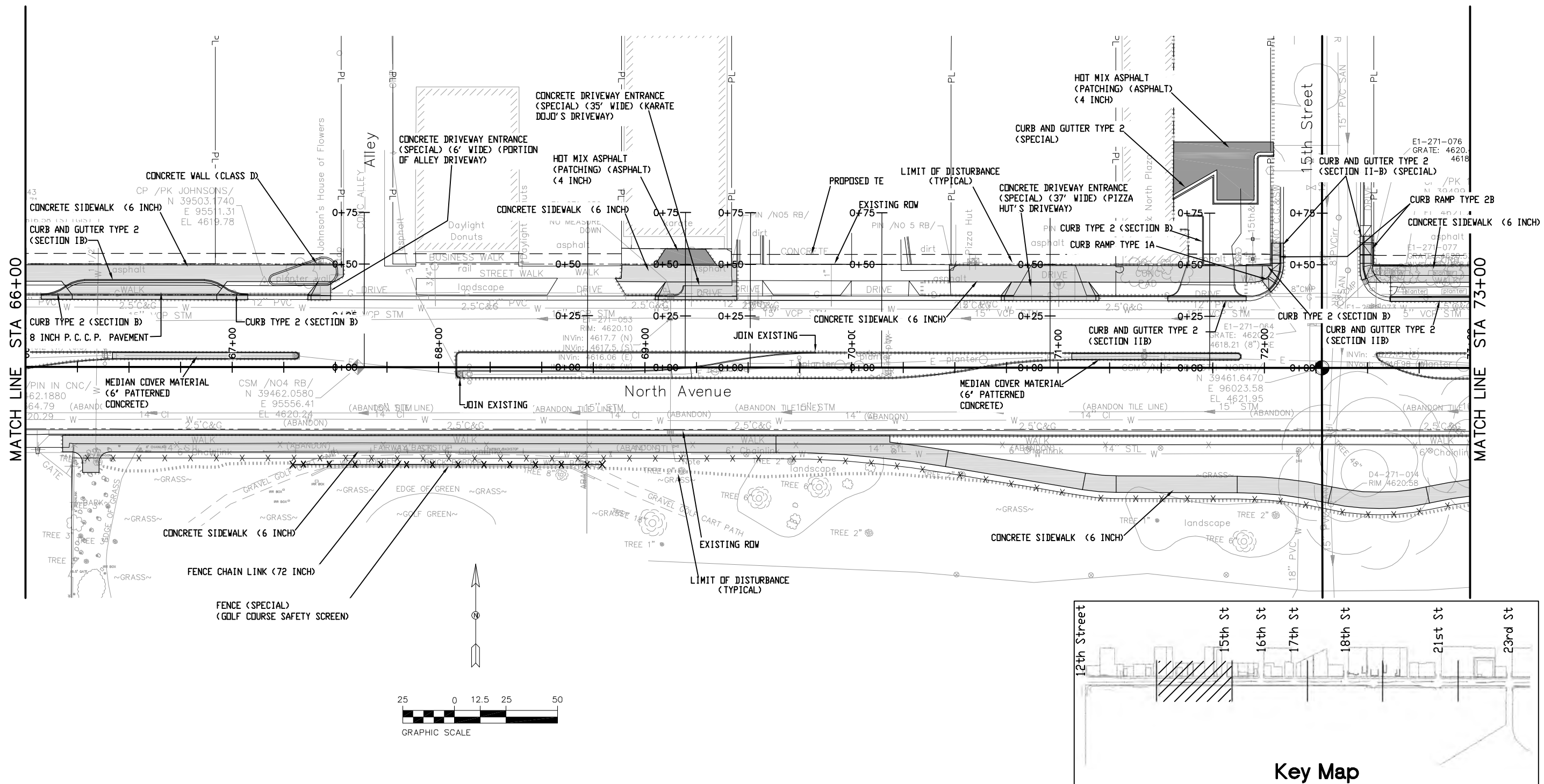
MATCH LINE STA 66+00



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| Horiz. Scale: 1:50 | | | | | | Region 3 | Revised: | | Detailer: John Smith | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | RBB | Void: | | Sheet Subset: RD PLAN | | Subset Sheets: 1 OF 6 |
| | | | | | | | | Sheet Number | | 41 | | |

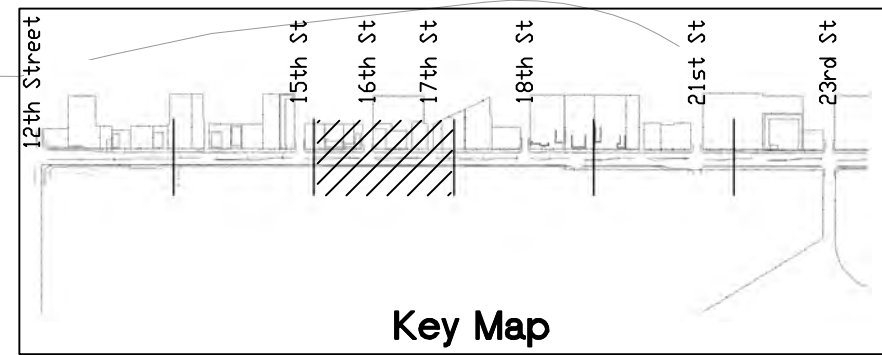
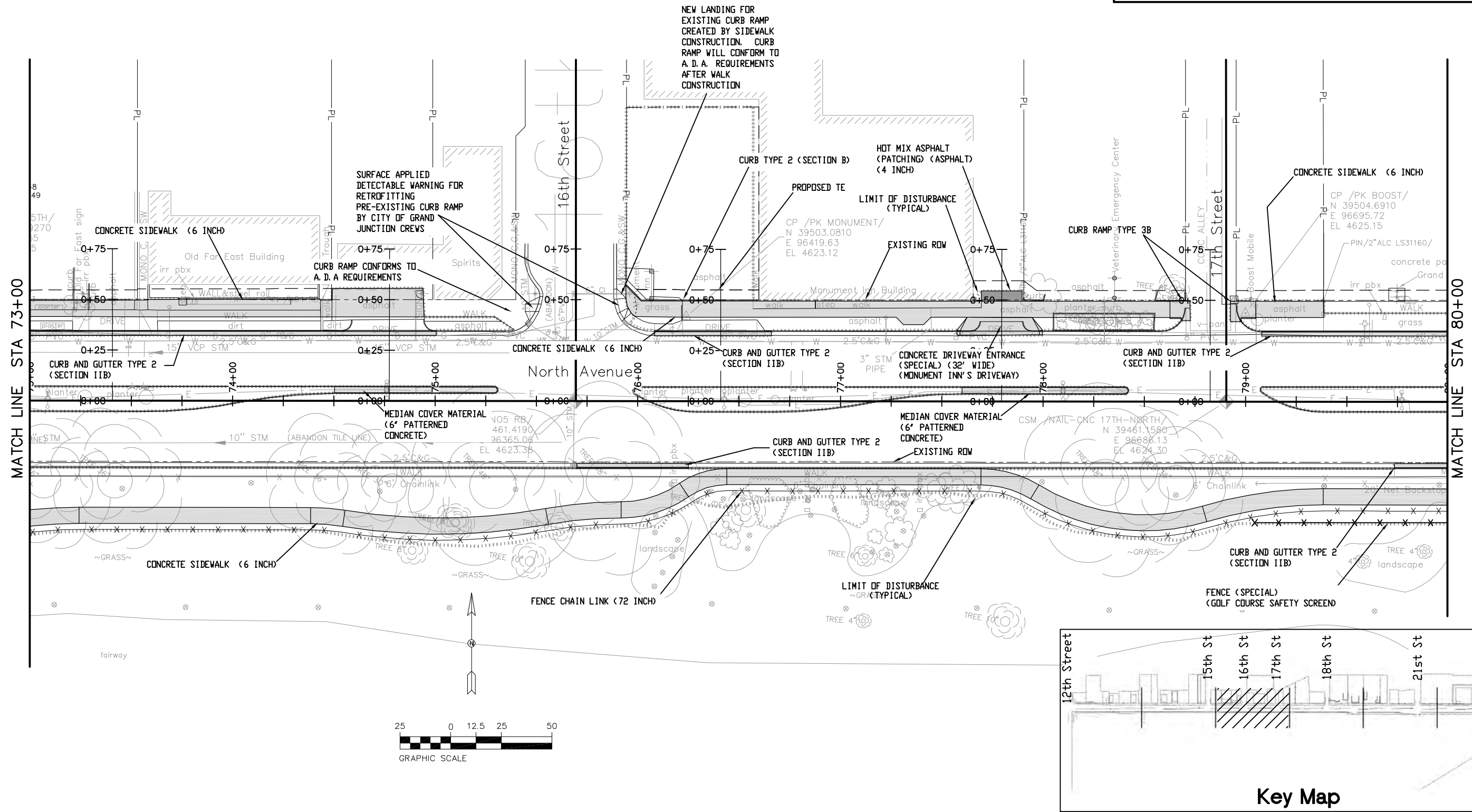
SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



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| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | | TCSP M555-029 | |
| Horiz. Scale: 1:50 | | Vert. Scale: NA | | | | Revised: | Designer: John Smith | Structure Numbers | 19365 | |
| Unit Information: City of GJ | | Unit Leader Initials: DPJ | | | | Void: | Detailer: John Smith | Subset Sheets: | 2 of 6 | |
| | | | | | Region 3 | RBB | Sheet Subset: RD PLAN | | Sheet Number | 42 |

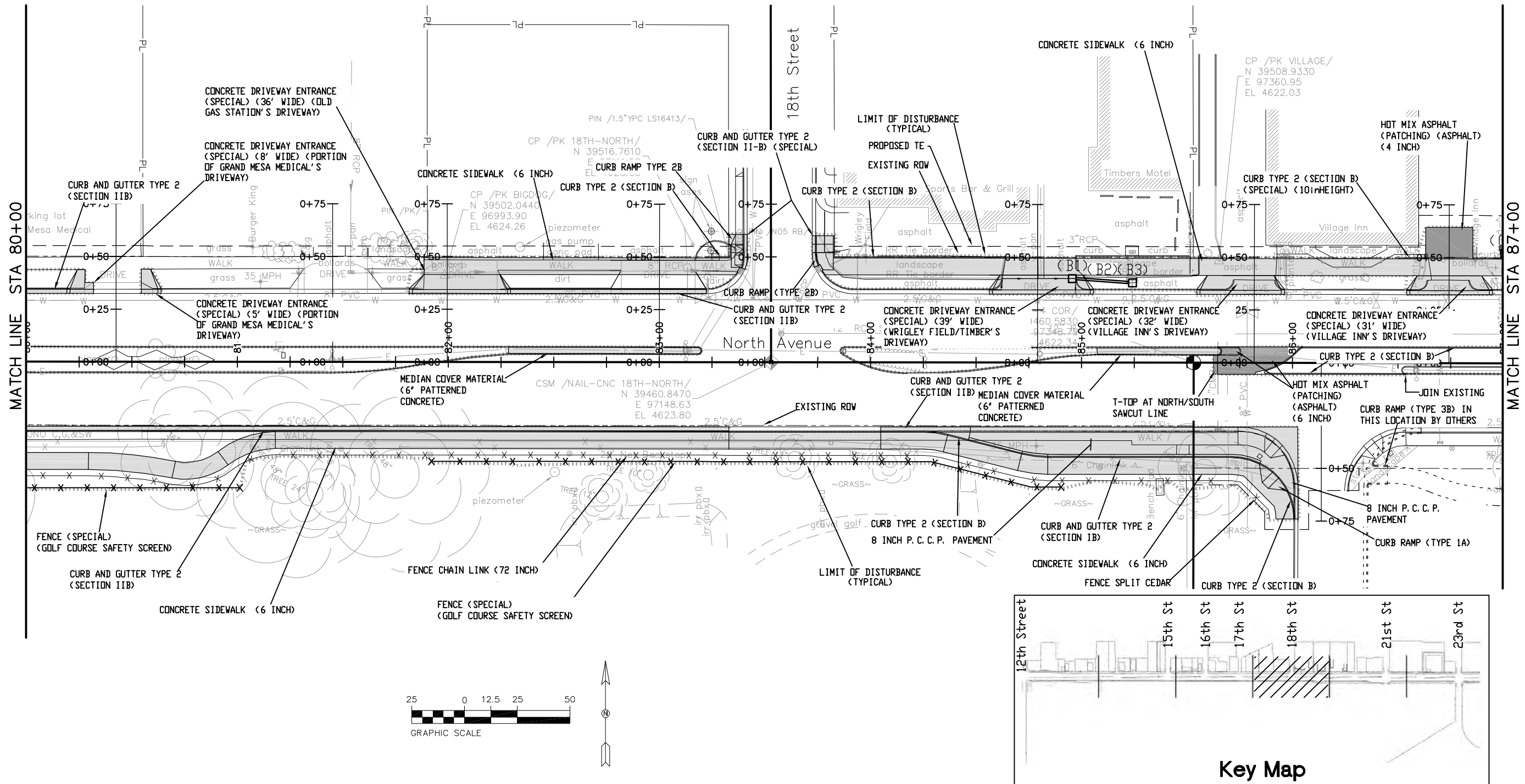
SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



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|------------------------------|------|---------------------------|----------|-------|--|--|----------------|--|---|--|-----------------------|--|-----------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Roadway Plan | | Project No./Code | | | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: RD PLAN | | TCSP M555-029 | | | |
| Horiz. Scale: 1:50 | | Vert. Scale: NA | | | | | Revised: | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ | | Unit Leader Initials: DPJ | | | | | Void: | | | | Subset Sheets: 3 of 6 | | Sheet Number 43 | |

SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS




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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation



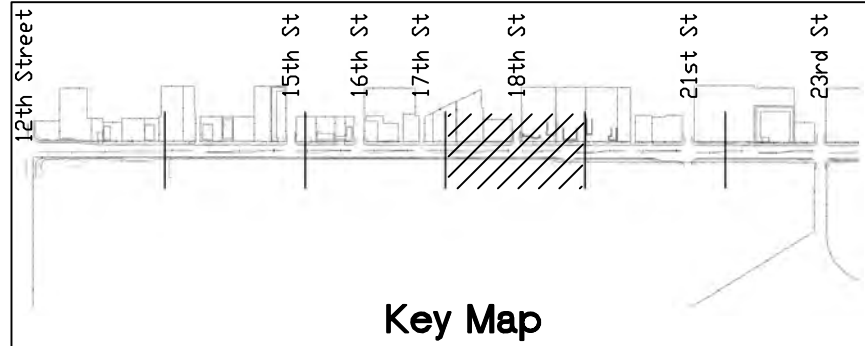
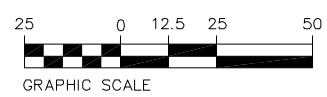
606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

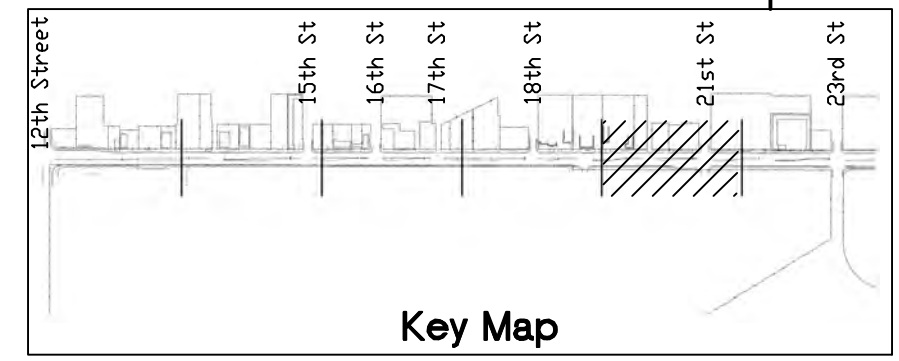
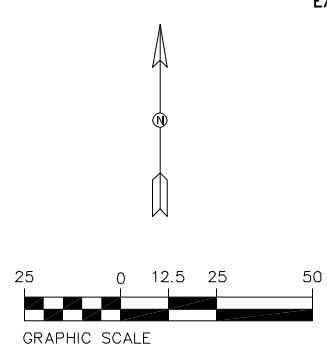
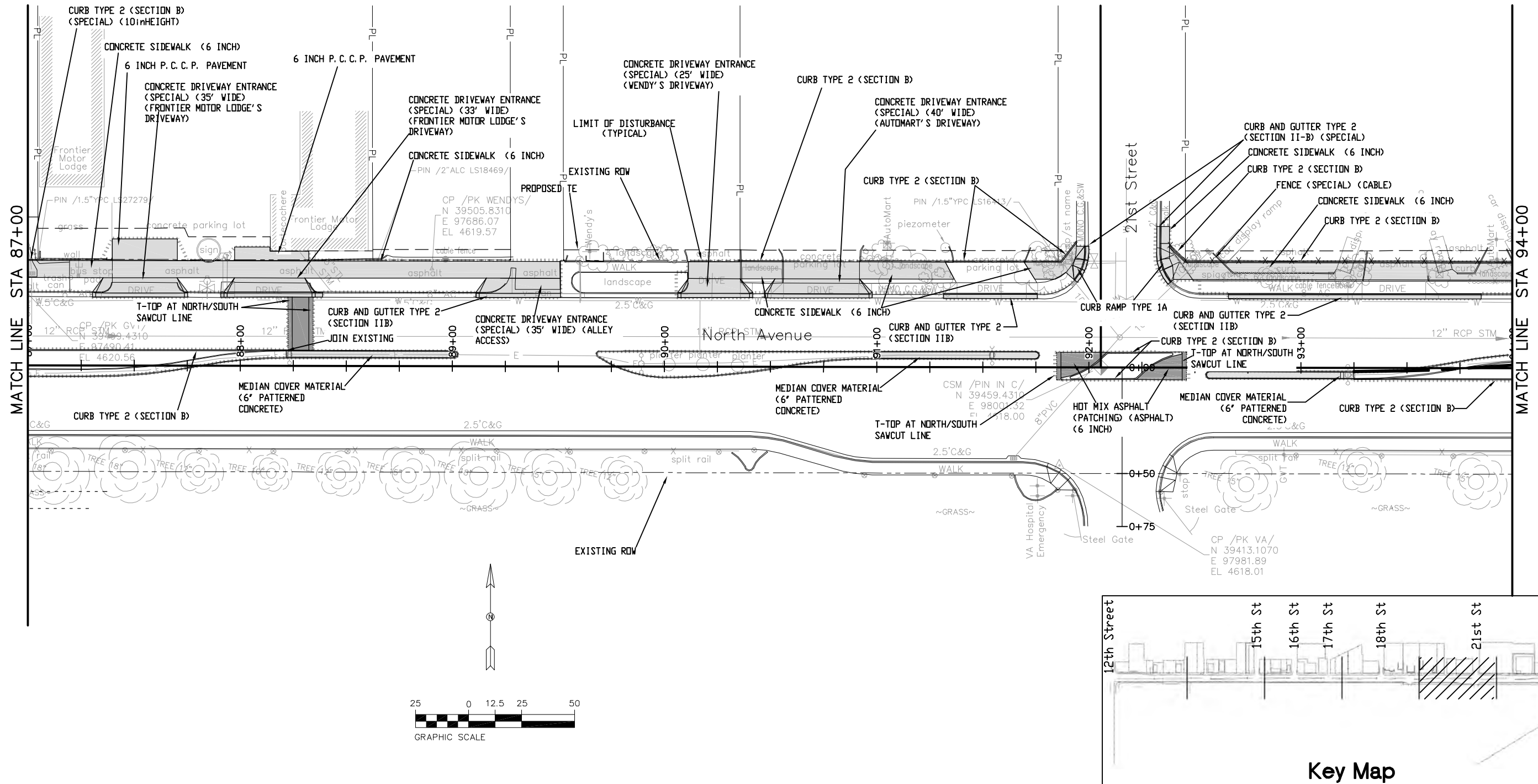
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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|-----------------------|-----------------------|
| Roadway Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: RD PLAN | Subset Sheets: 4 of 6 |

| |
|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 44 |



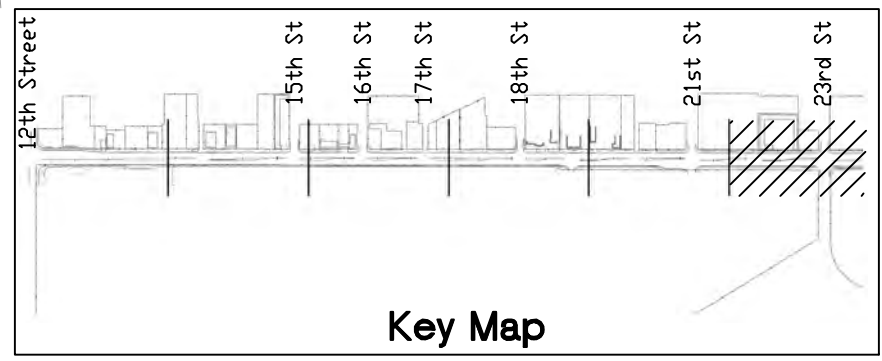
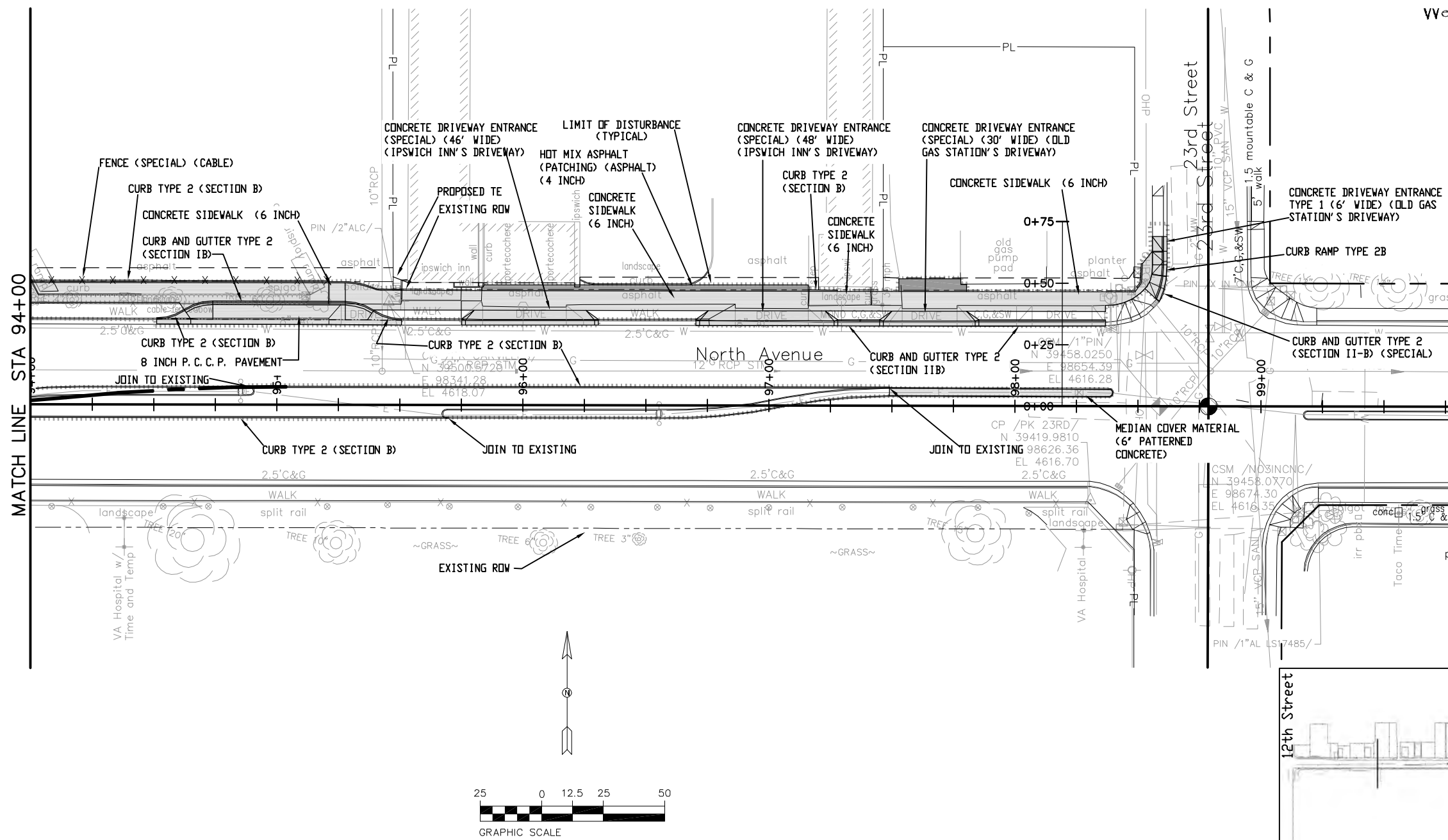
SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Roadway Plan | | Project No./Code | | | |
| File Name: AT LEFT | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: RD PLAN | | TCSP M555-029 | | | |
| Horiz. Scale: 1:50 | | | | | | Revised: | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | | | | Subset Sheets: 5 of 6 | | Sheet Number 45 | |

SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
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Colorado Department of Transportation



606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

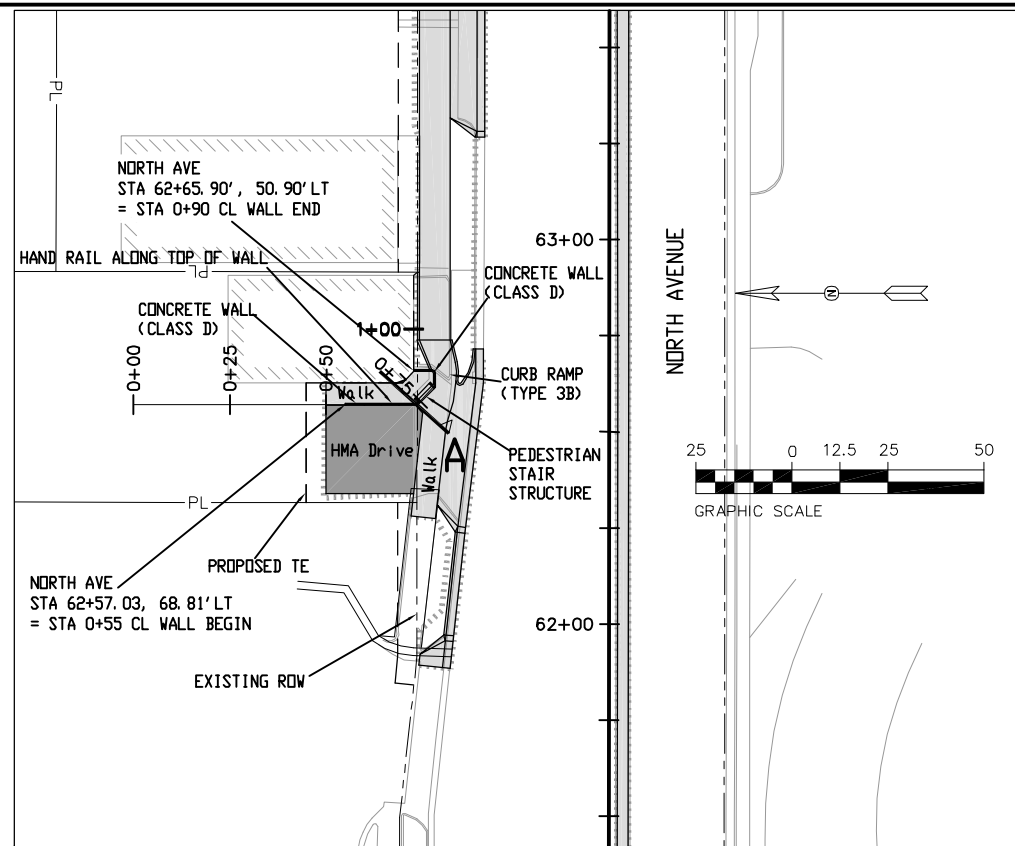
Region 3 RBB

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| As Constructed |
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| Void: |

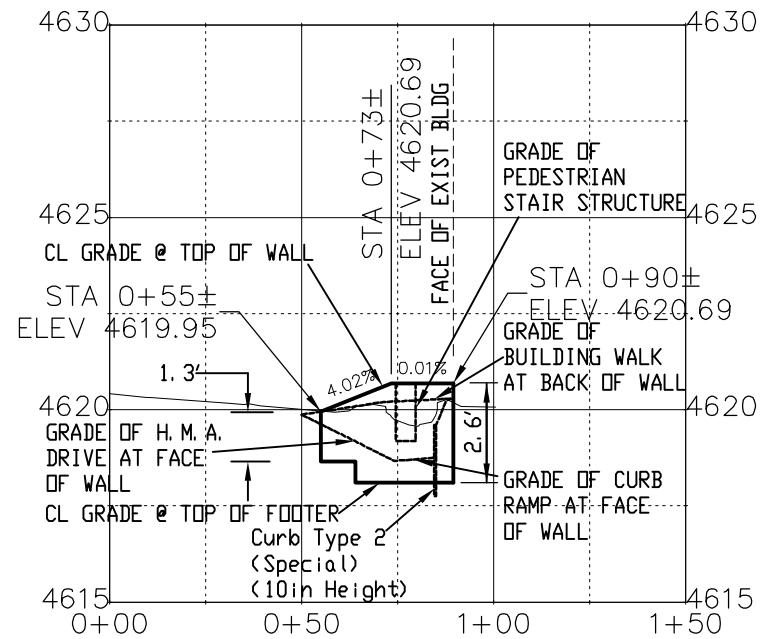
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|-----------------------|-----------------------|
| Roadway Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: RD PLAN | Subset Sheets: 6 of 6 |

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|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 46 |

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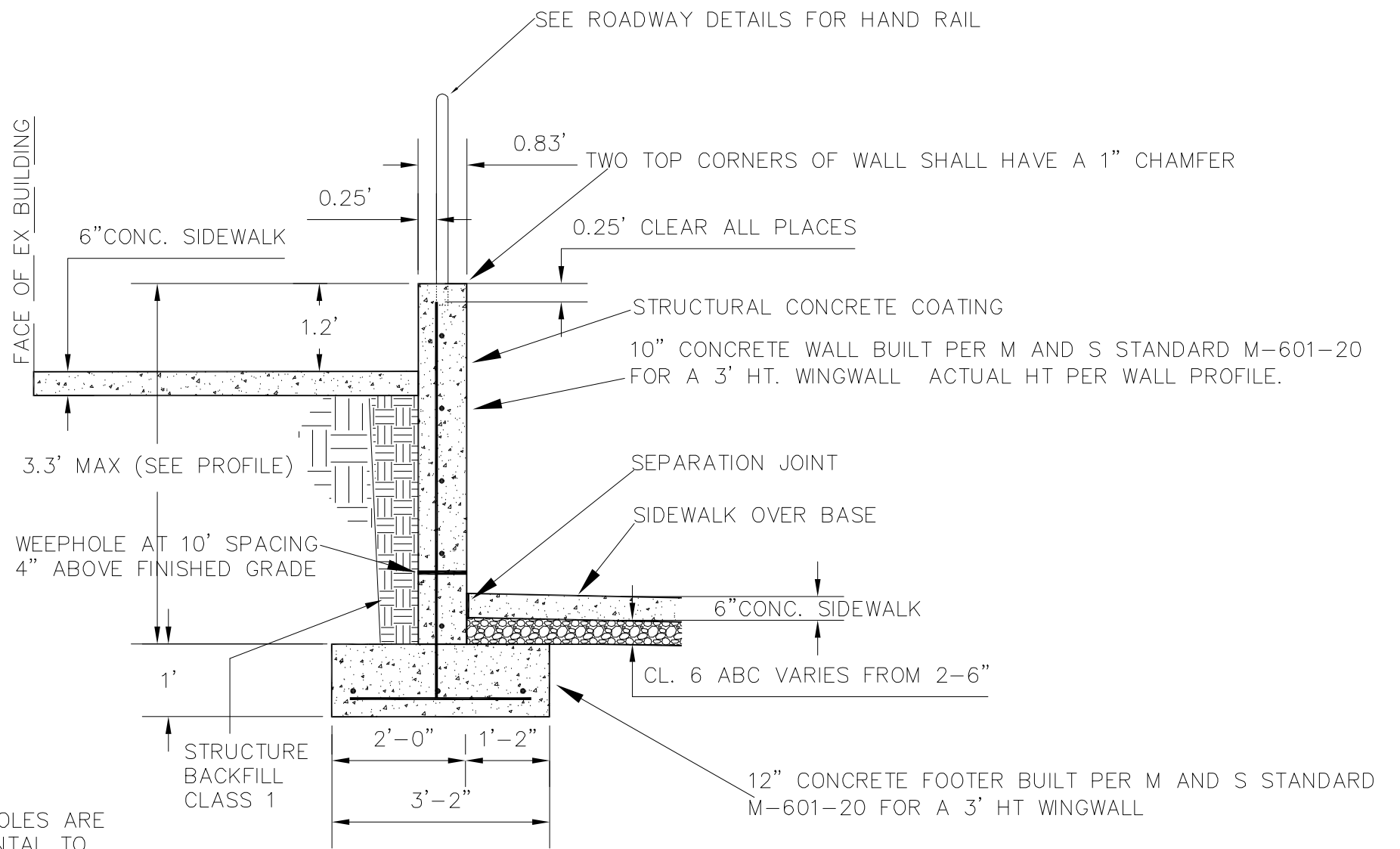
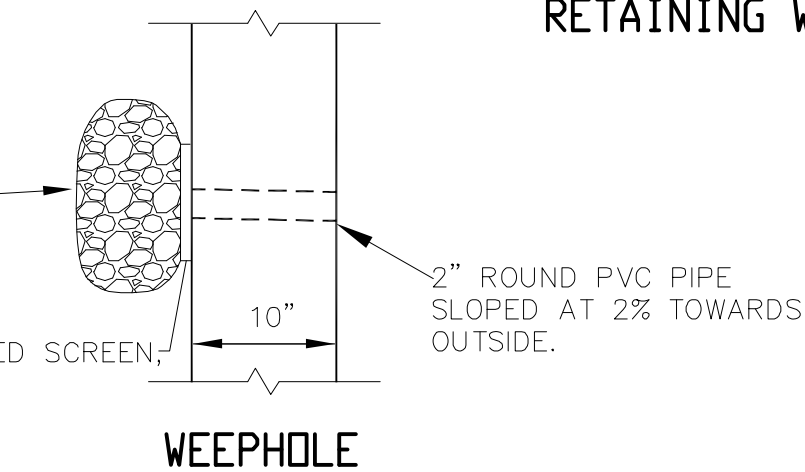
PLAN



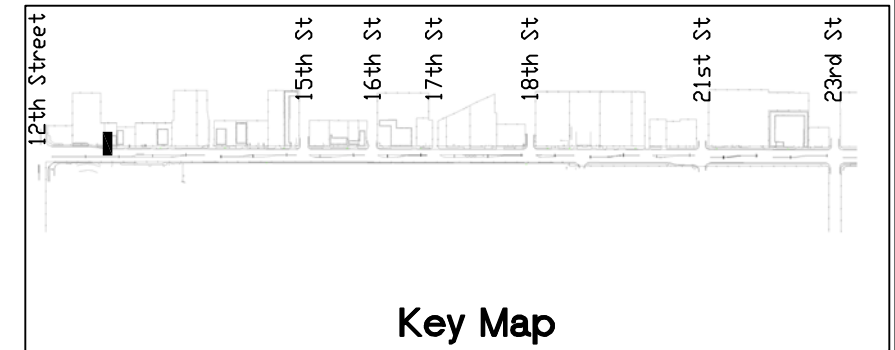
SEE INTERSECTION CORNER RAMP PLAN FOR STAKING DATA AND ELEVATIONS

NOTE: WEEPHOLES ARE INCIDENTAL TO THE CONCRETE CLASS D (WALL) PAY ITEM

2 CU. FT. COURSE GRAVEL IN BURLAP BAG
GALVANIZED SCREEN, 1/2" MESH




RETAINING WALL (SECTION AA)



Key Map

Print Date: AT LEFT
File Name: AT LEFT
Horiz. Scale: 1:50
Vert. Scale: 1:5
Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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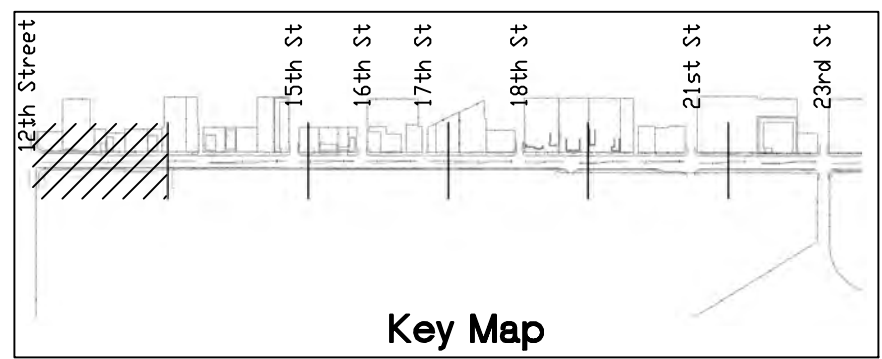
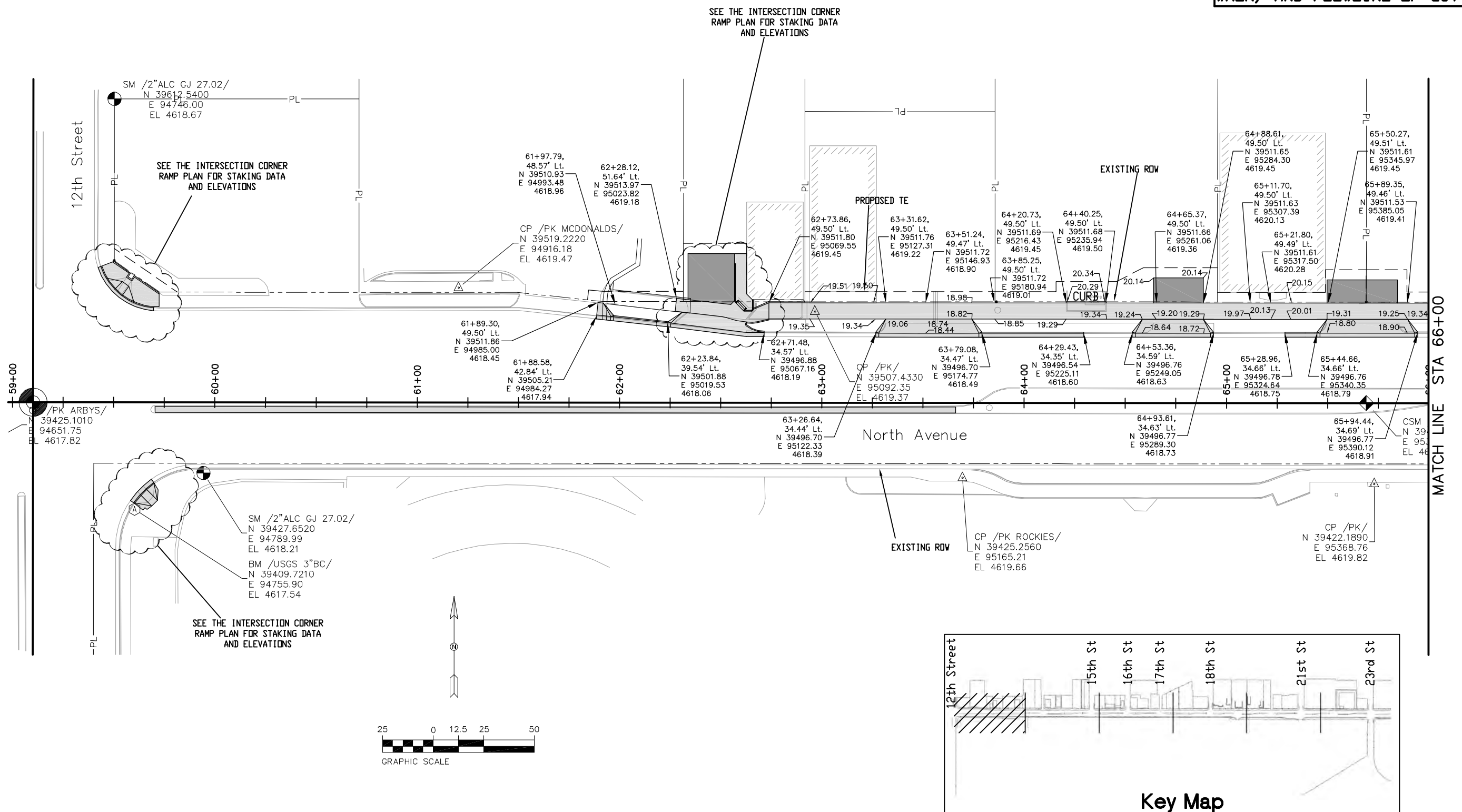
Colorado Department of Transportation

 606 South 9th Street
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Retaining Wall Plan and Profile
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset: ret wall
 Structure Numbers
 Subset Sheets: 1 of 1

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **47**

PROVIDED POINT DATA IS FOR
EDGE OF PAVEMENT IN PARKING
AREAS, BACK OF WALK, FACE OF
WALK, AND FLOWLINE OF GUTTER



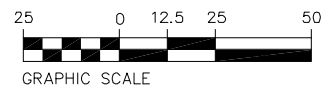
Key Map

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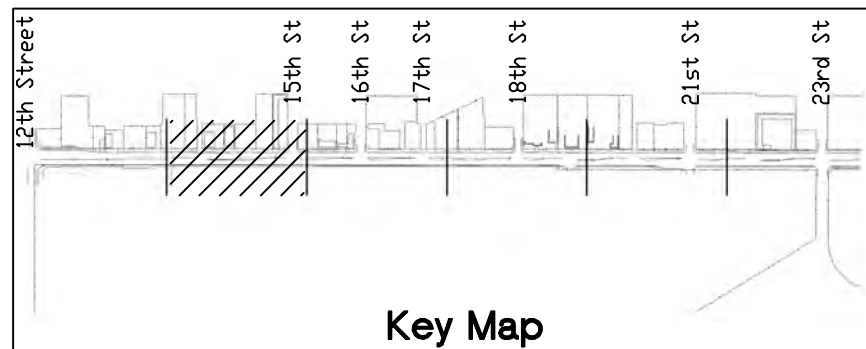
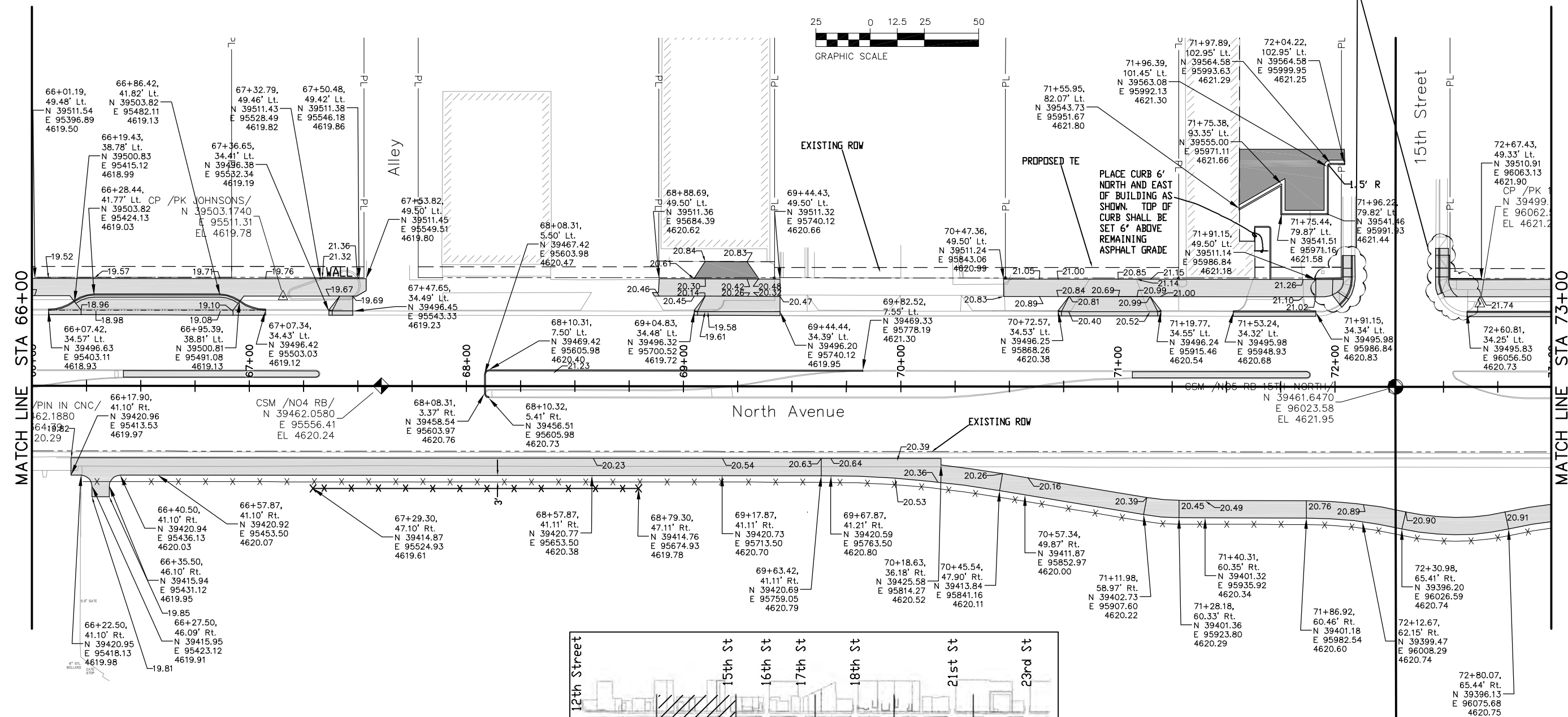
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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Project No./Code | | | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | TCSP M555-029 | | | |
| Horiz. Scale: 1:50 | | | | | | | Revised: | | Staking Plan | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Void: | | Designer: John Smith Detailer: John Smith Sheet Subset: Staking | | Structure Numbers Subset Sheets: 1 OF 6 | |
| | | | | | Region 3 | | RBB | | Sheet Number 48 | | | |

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**PROVIDED POINT DATA IS FOR
EDGE OF PAVEMENT IN PARKING
AREAS, BACK OF WALK, FACE OF
WALK, AND FLOWLINE OF GUTTER**



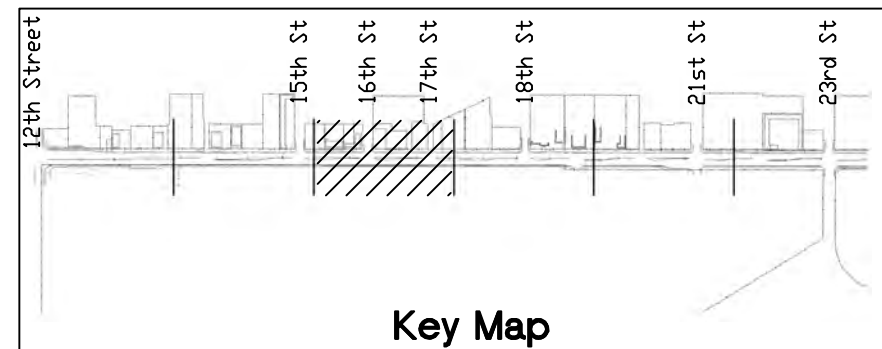
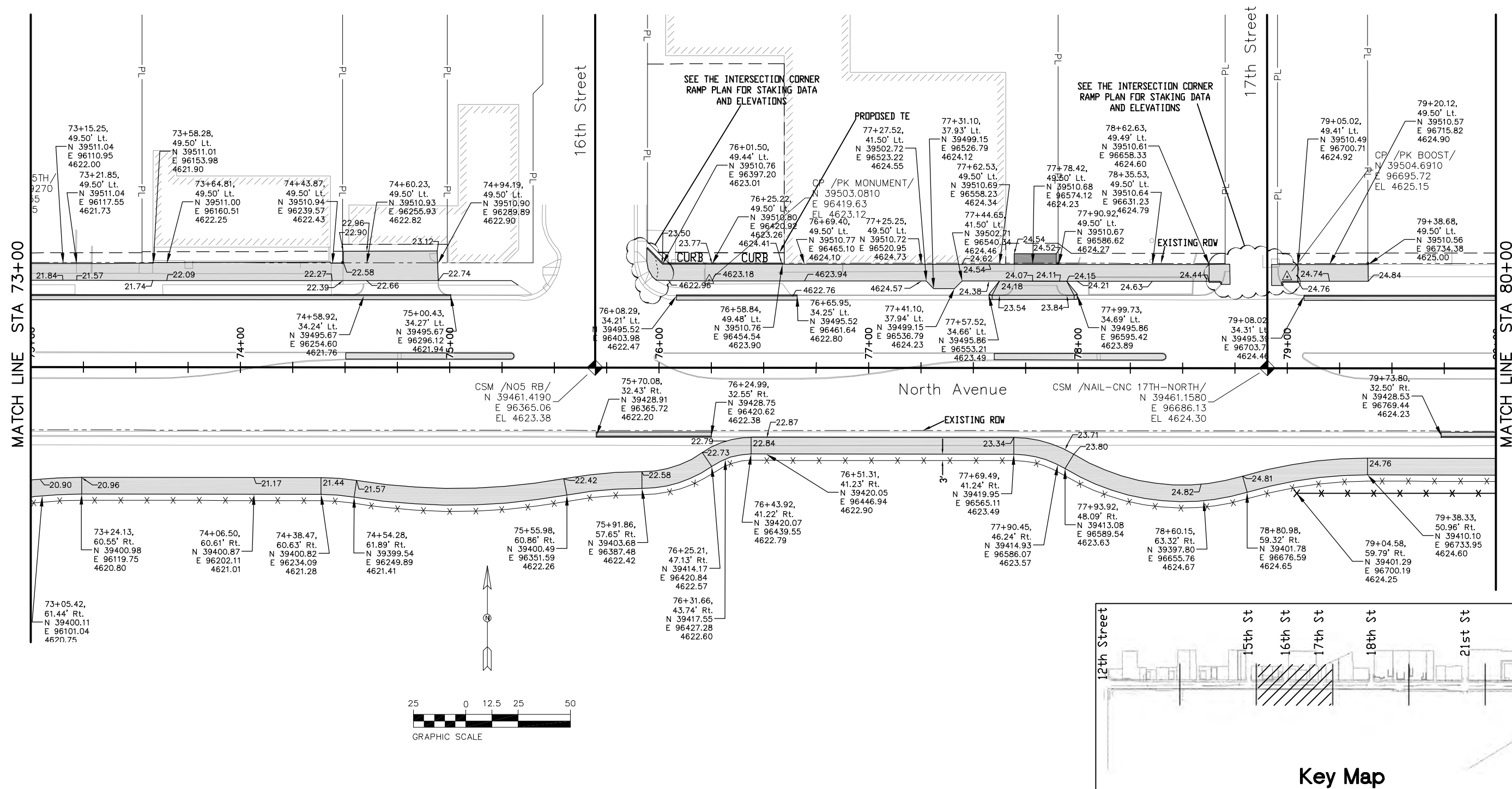
SEE THE INTERSECTION CORNER
RAMP PLAN FOR STAKING DATA
AND ELEVATIONS



Key Map

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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Project No./Code | |
| File Name: AT LEFT | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | TCSP M555-029 | |
| Horiz. Scale: 1:50 | | | | | | Revised: | | Designer: John Smith | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | |  Region 3 | | Void: | | Detailer: John Smith | |
| | | | | | | Sheet Subset: Staking | | Structure Numbers | |
| | | | | | | | | Sheet Subset: Staking | |
| | | | | | | | | Subset Sheets: 2 of 6 | |

PROVIDED POINT DATA IS FOR
EDGE OF PAVEMENT IN PARKING
AREAS, BACK OF WALK, FACE OF
WALK, AND FLOWLINE OF GUTTER

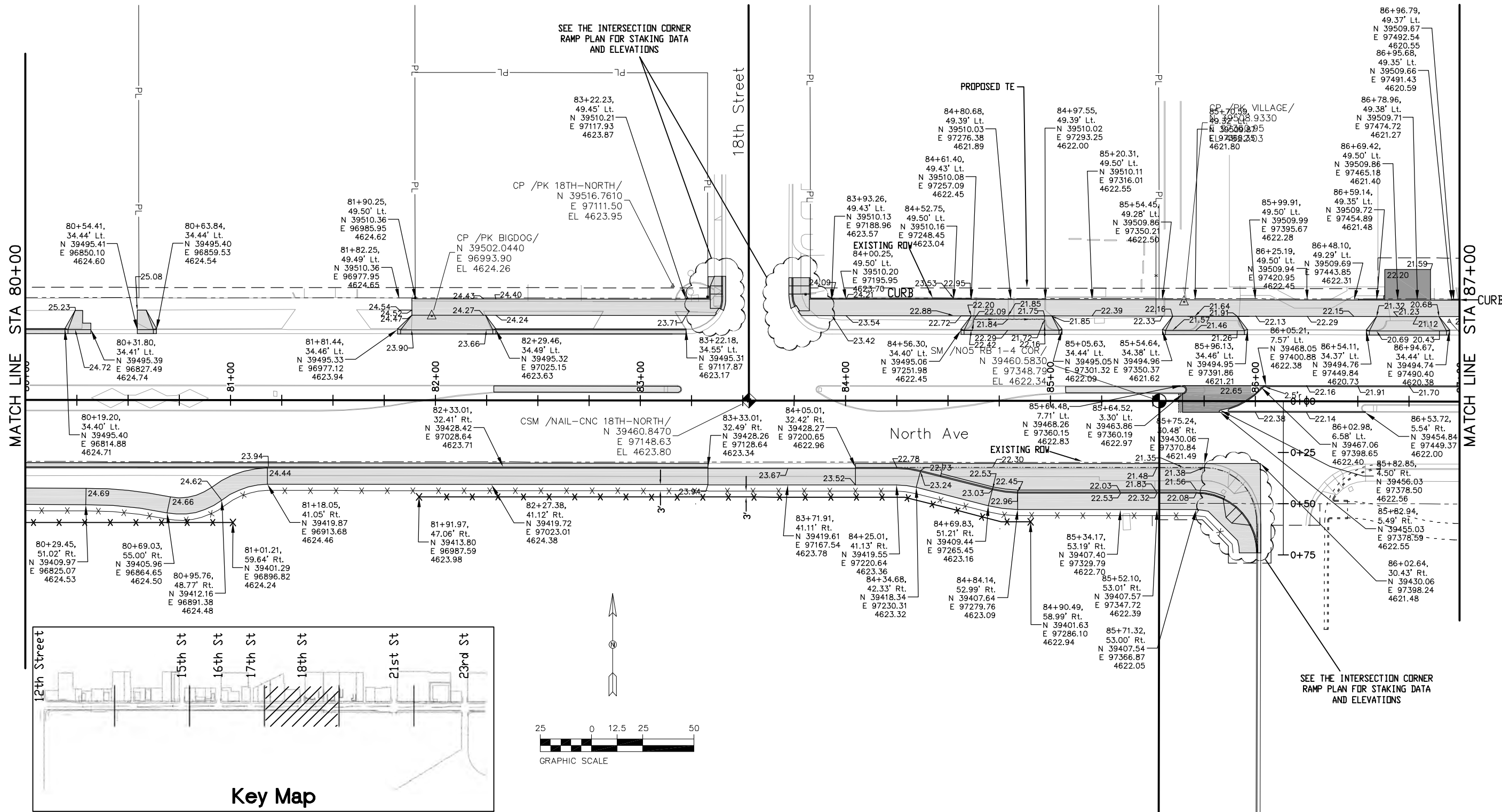


Key Map

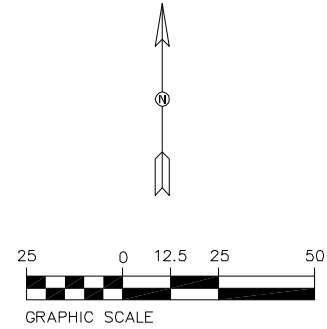
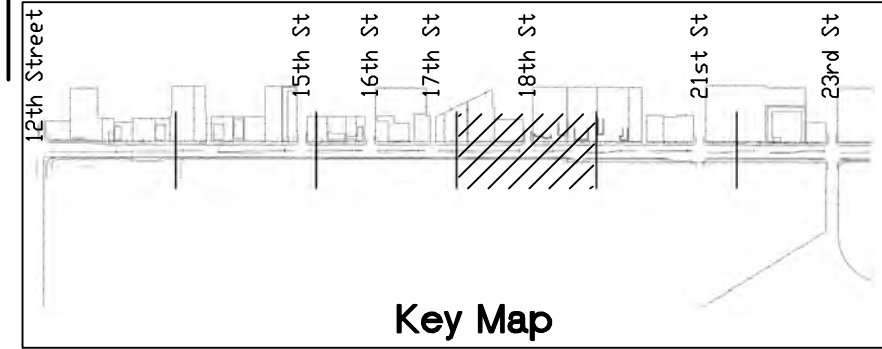
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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | Staking Plan | | Project No./Code |
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| Horiz. Scale: 1:50 | | Vert. Scale: NA | | | | Revised: | Detailer: John Smith | | 19365 | |
| Unit Information: City of GJ | | Unit Leader Initials: DPJ | | | | Void: | Sheet Subset: Staking | | Subset Sheets: 3 of 6 | |

PROVIDED POINT DATA IS FOR
EDGE OF PAVEMENT IN PARKING
AREAS, BACK OF WALK, FACE OF
WALK, AND FLOWLINE OF GUTTER

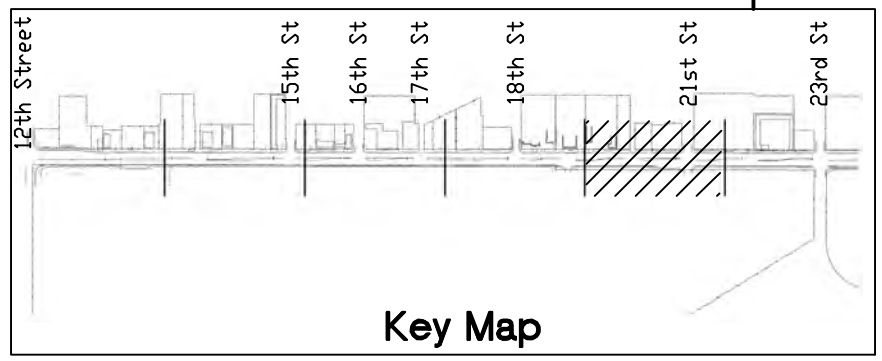
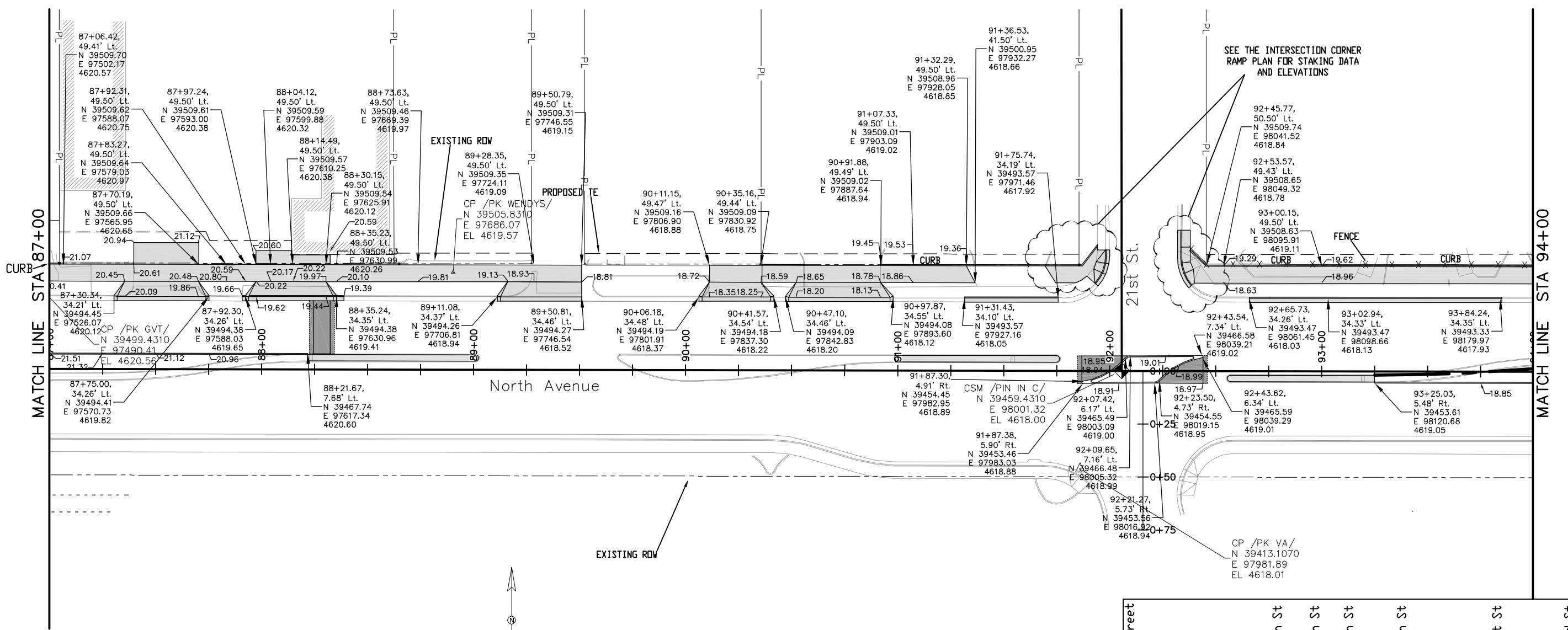


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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Staking Plan | | Project No./Code | |
| File Name: AT LEFT | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:50 Vert. Scale: NA | | | | | | Revised: | | | | Sheet Subset: Staking Subset Sheets: 4 of 6 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 RBB | | Void: | | Sheet Number | | 51 | |

PROVIDED POINT DATA IS FOR
EDGE OF PAVEMENT IN PARKING
AREAS, BACK OF WALK, FACE OF
WALK, AND FLOWLINE OF GUTTER

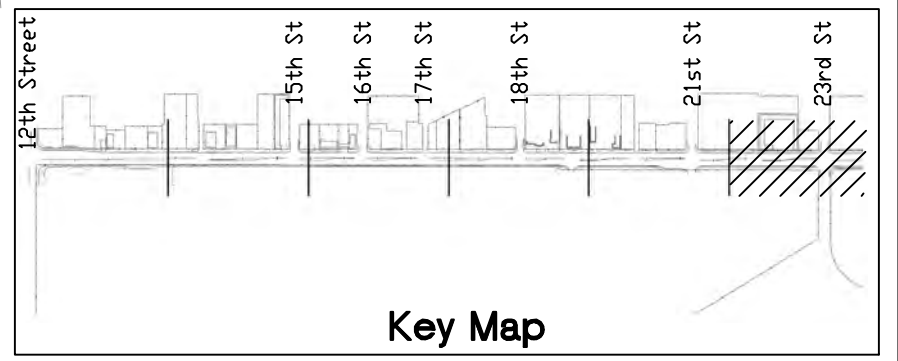
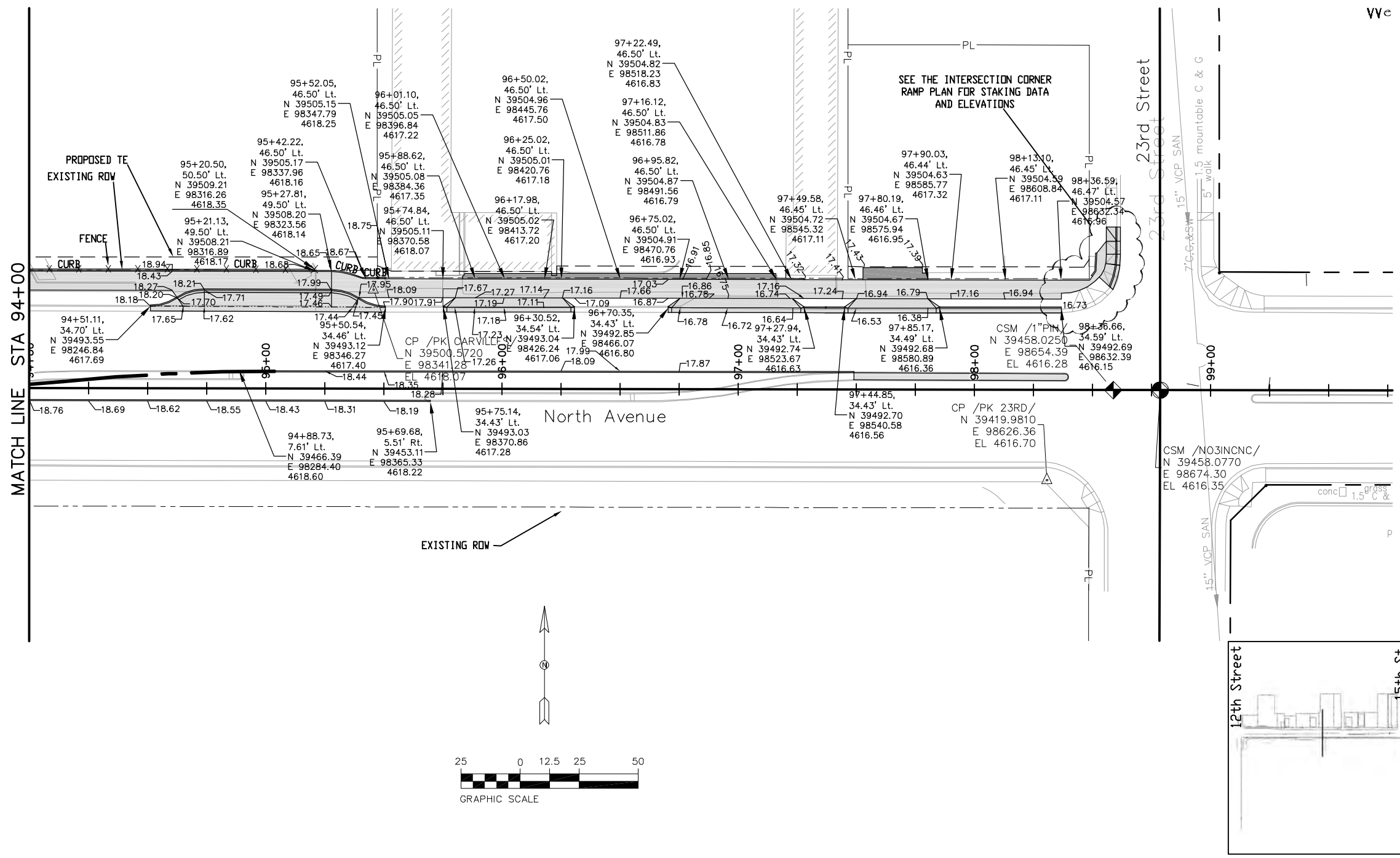


Key Map

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| Print Date: AT LEFT | | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | Staking Plan | | Project No./Code |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | Designer: John Smith | | TCSP M555-029 |
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| Unit Information: City of GJ | | Unit Leader Initials: DPJ | | | | Void: | | Sheet Subset: Staking | | Sheet Number 52 |
| | | | | | RBB | | Subset Sheets: 5 of 6 | | | |

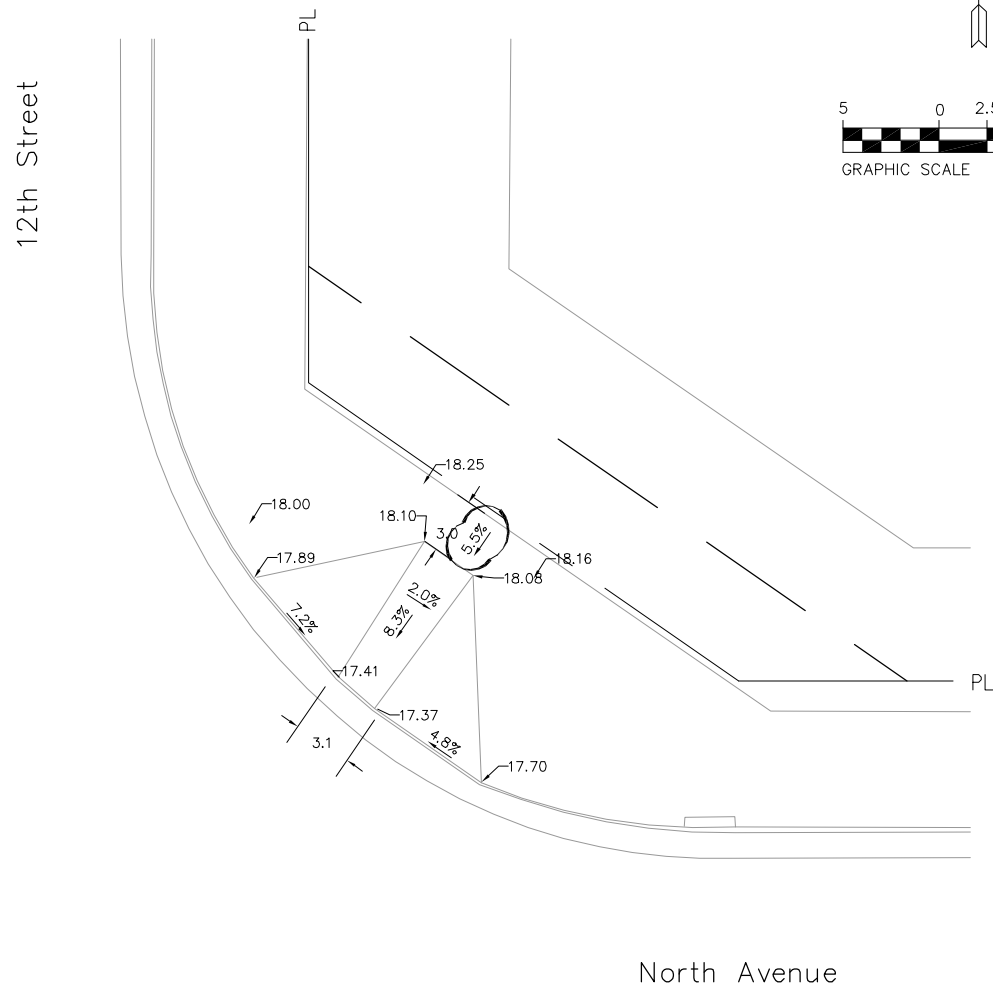
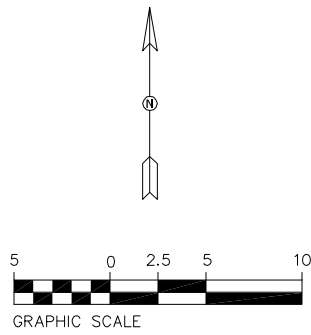
PROVIDED POINT DATA IS FOR
EDGE OF PAVEMENT IN PARKING
AREAS, BACK OF WALK, FACE OF
WALK, AND FLOWLINE OF GUTTER



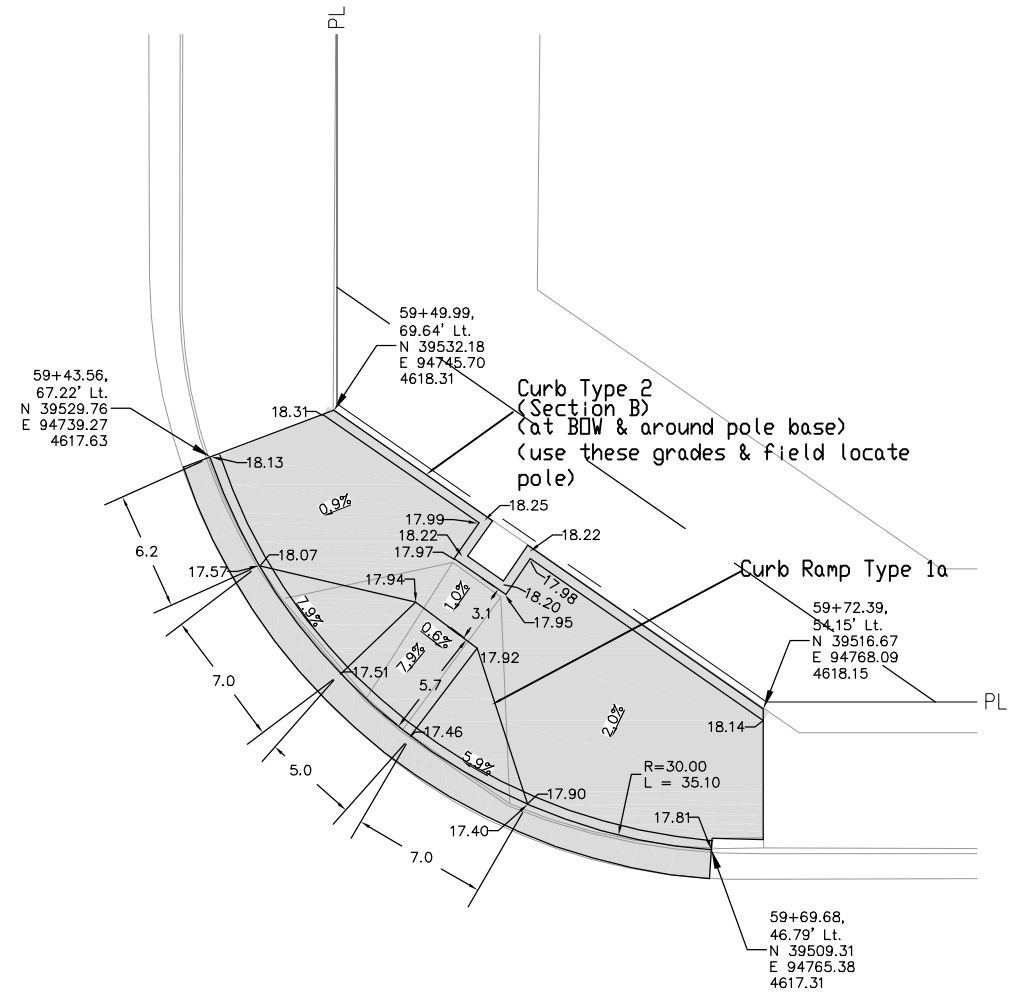
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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Staking Plan | | Project No./Code | | | | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: Staking | | TCSP M555-029 | | | | |
| Horiz. Scale: 1:50 | | Vert. Scale: NA | | | | | Revised: | | | | Structure Numbers | | 19365 | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Void: | | | | Subset Sheets: 6 of 6 | | Sheet Number 53 | | |

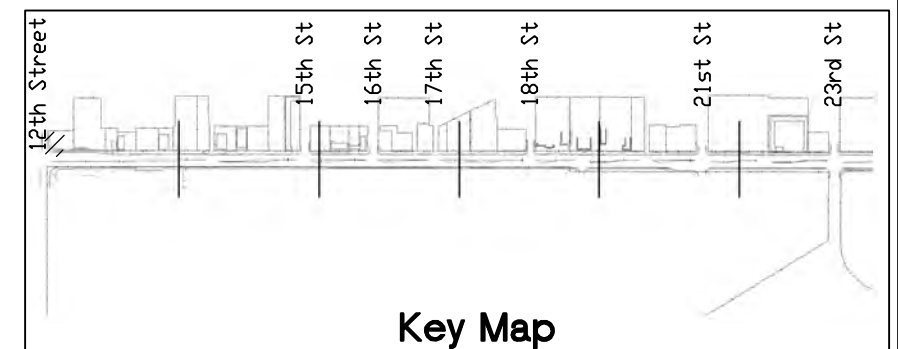
EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



Existing Conditions



Proposed Ramp Improvements

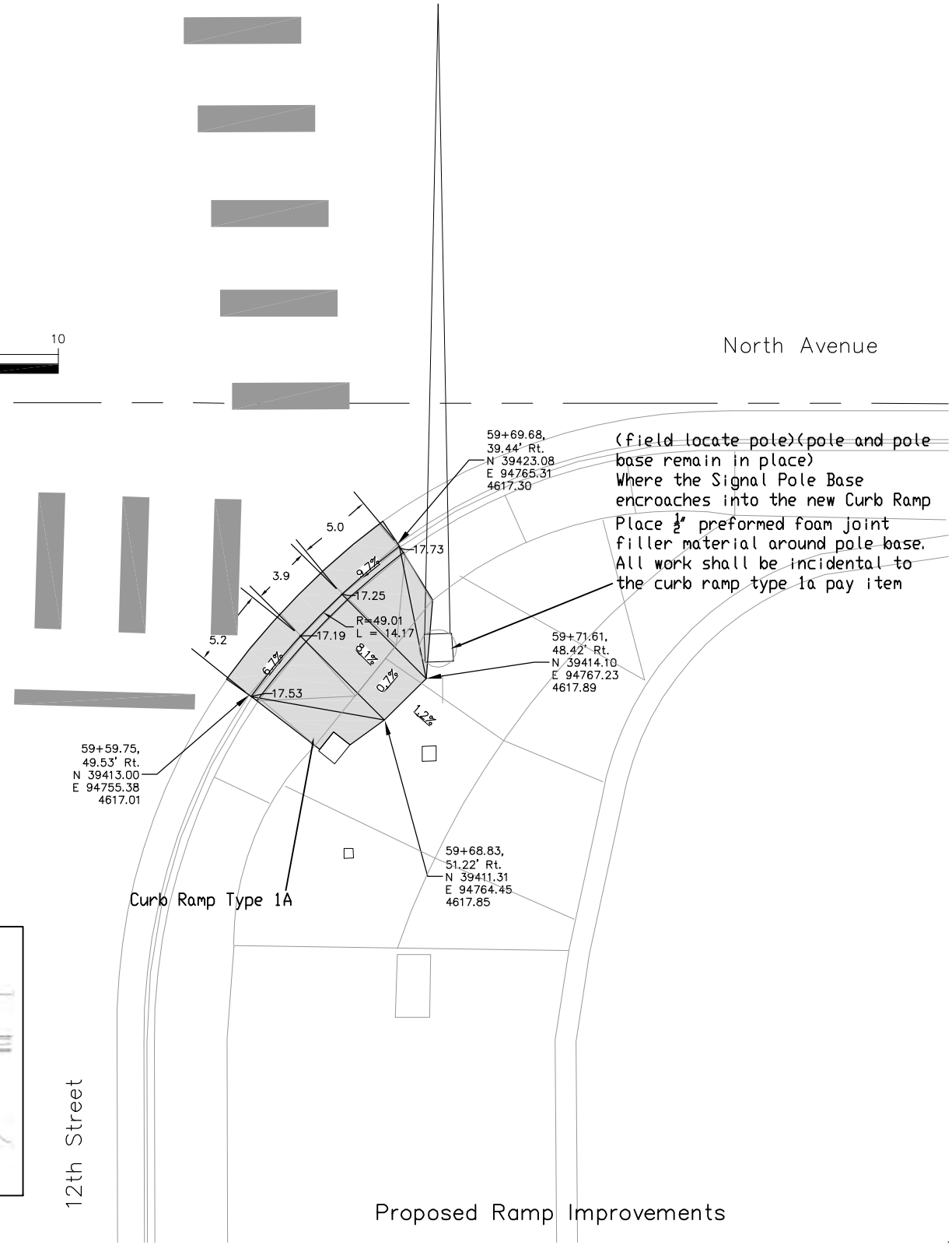
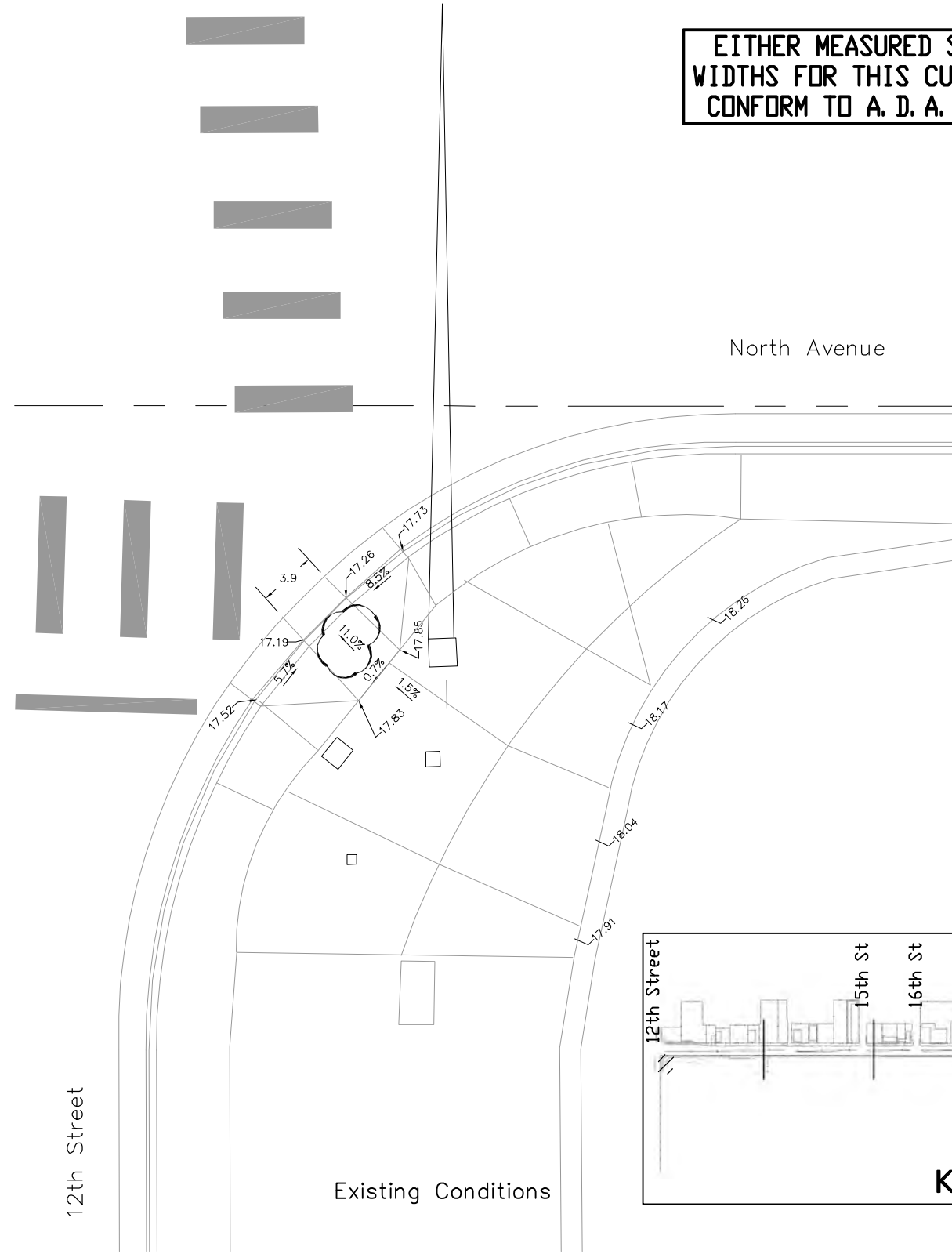
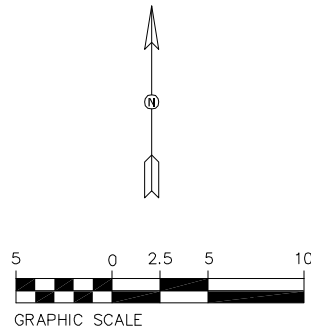


Key Map

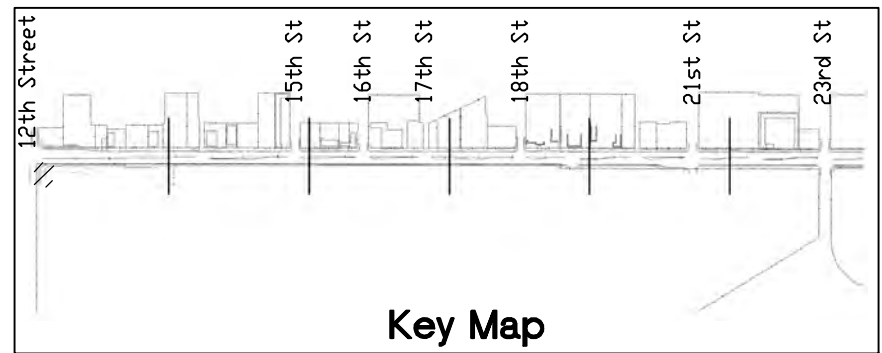
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|--|------|-----------------|----------|-------|--|---------------|----------------------|----------------------|-------------------------------|---------------|------------------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | No Revisions: | | Designer: John Smith | | TCSP M555-029 | | |
| Horiz. Scale: 1:10 | | Vert. Scale: NA | | | | Revised: | Detailer: John Smith | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Sheet Subset: ICRP | | Subset Sheets: 1 OF 15 | | Sheet Number 54 | |
| | | | | | | Region 3 | RBB | | | | | |

EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



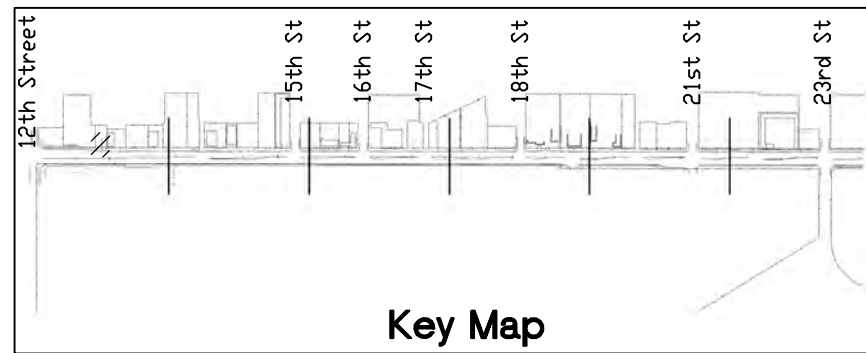
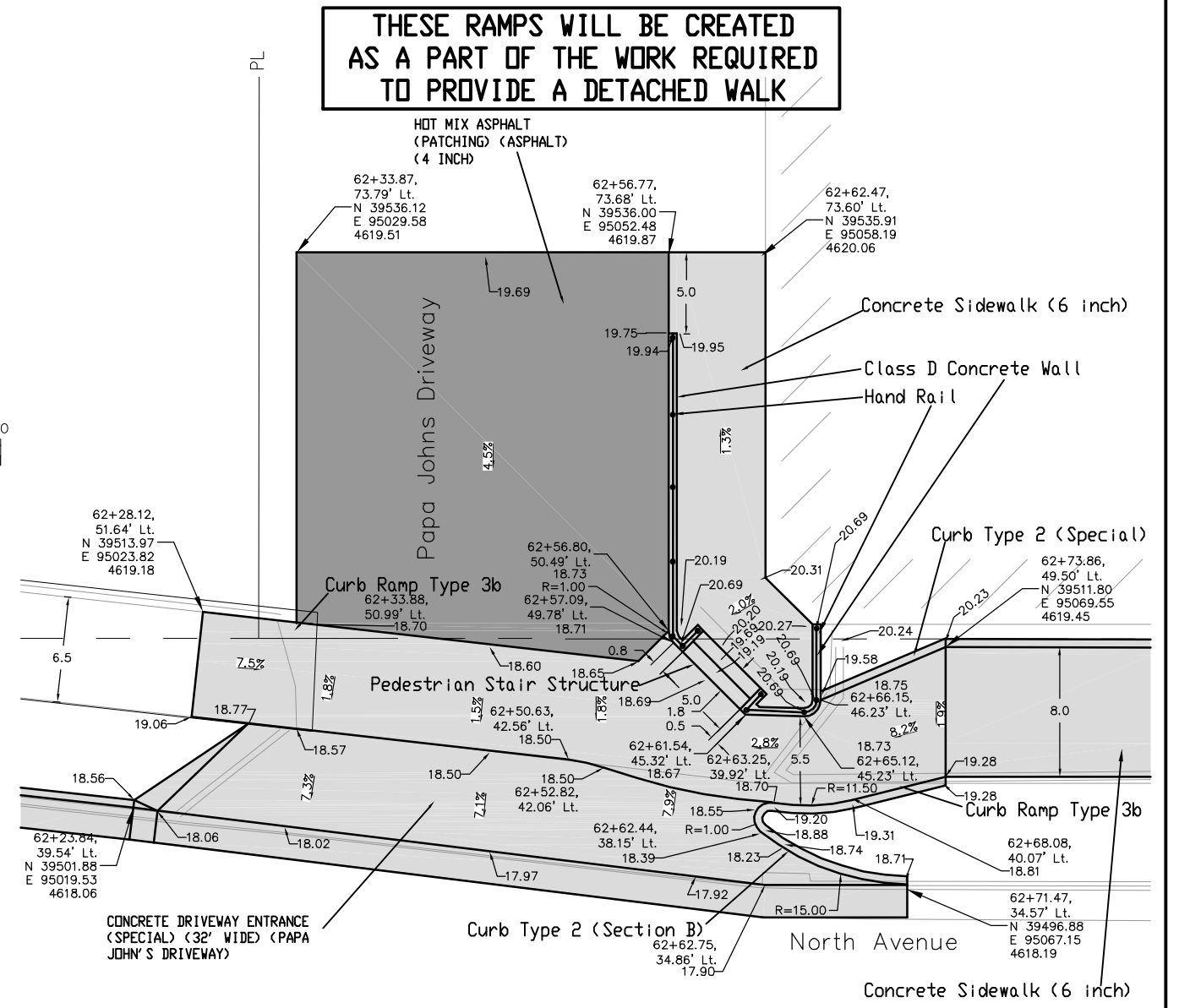
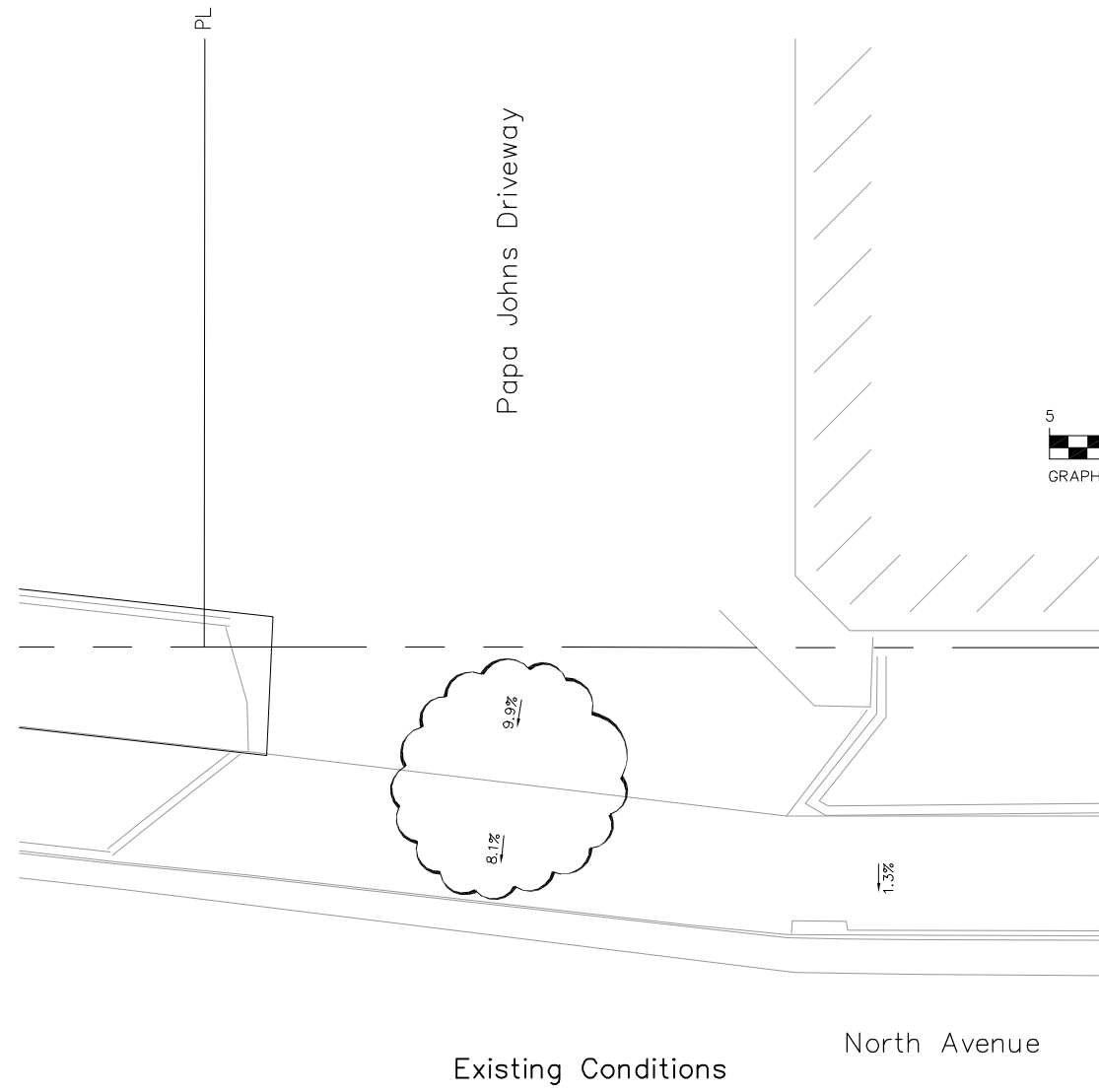
(field locate pole)(pole and pole base remain in place)
Where the Signal Pole Base encroaches into the new Curb Ramp Place 1/2" preformed foam joint filler material around pole base. All work shall be incidental to the curb ramp type 1a pay item



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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | | | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: ICRP | | TCSP M555-029 | | | |
| Horiz. Scale: 1:10 | | Vert. Scale: NA | | | | | Revised: | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Void: | | | | Subset Sheets: 2 OF 15 | | Sheet Number 55 | |

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Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:10 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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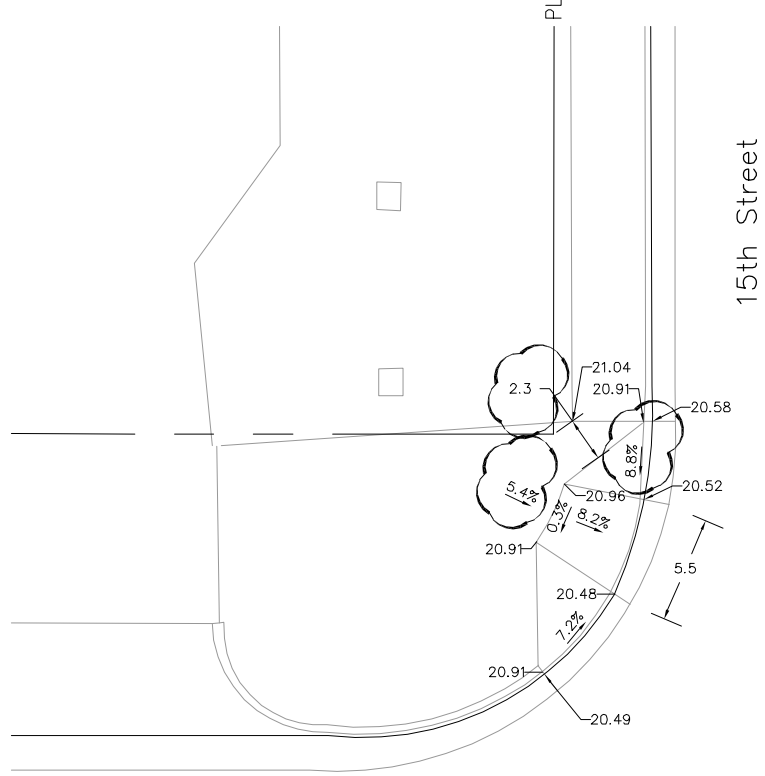
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Intersection Corner Ramp Plan
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset: ICRP
 Structure Numbers
 Subset Sheets: 3 OF 15

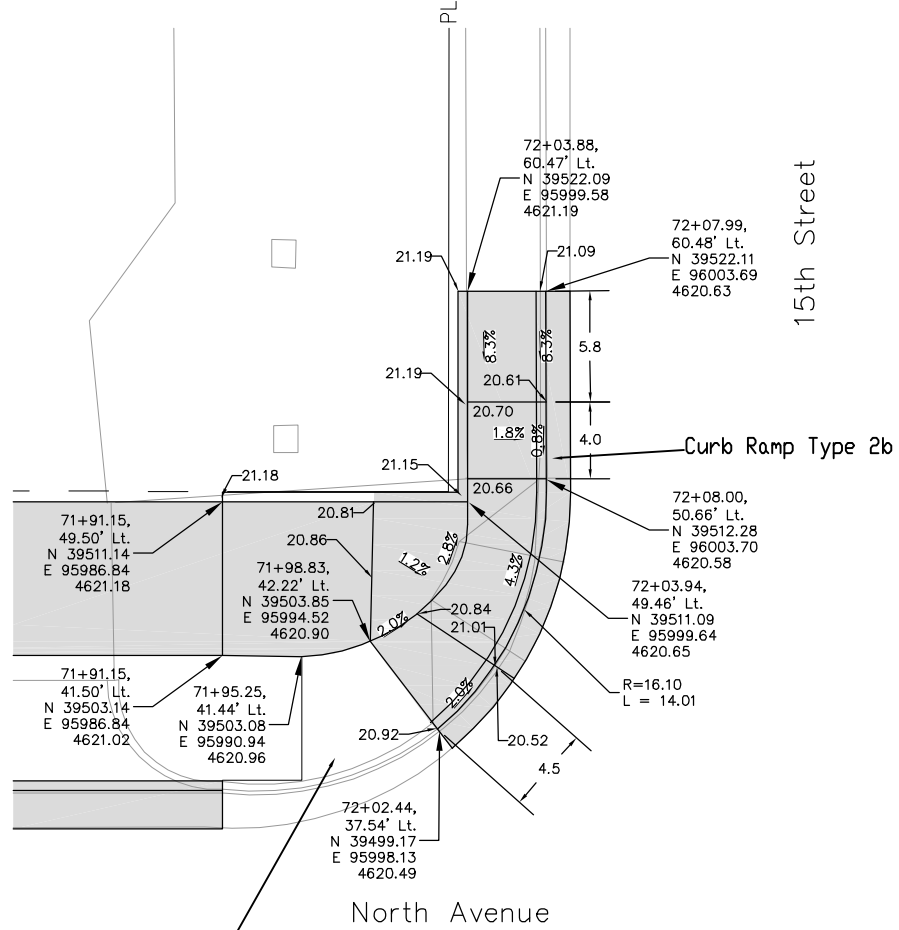
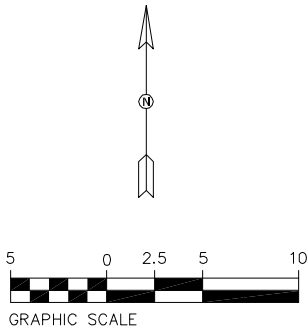
Project No./Code
 TCSP M555-029
 19365
 Sheet Number **56**

EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



North Avenue

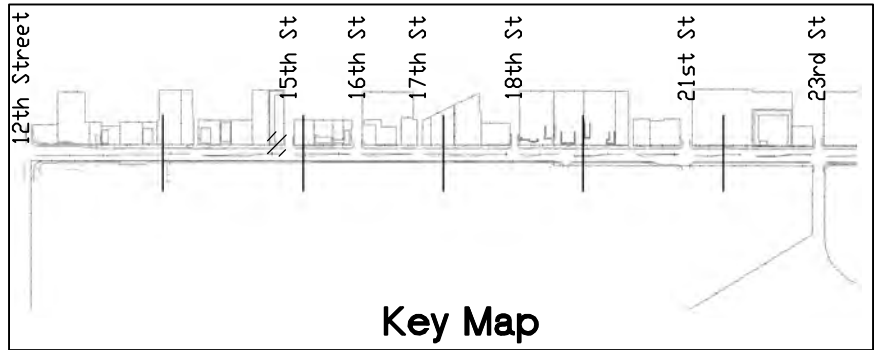
Existing Conditions



North Avenue

this portion of intersection corner remains

Proposed Ramp Improvements



Key Map

N:\Cadd\John Smith\Projects\NORTH AVE)\ACAD Drawings\roadway plans with city std dwy cuts.dwg, 8/20/2015 12:38:04 PM

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| Print Date: AT LEFT | 0000 |
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| Horiz. Scale: 1:10 Vert. Scale: NA | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation



606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

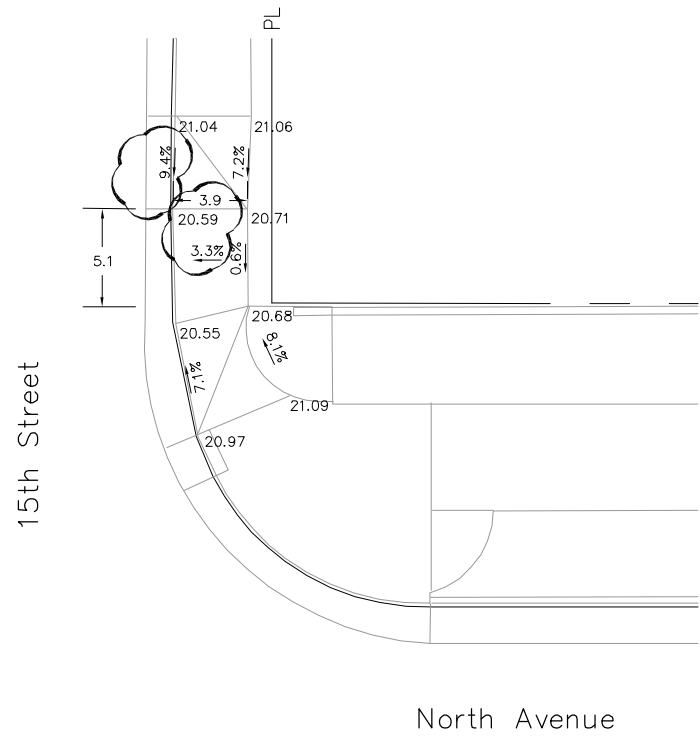
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| Intersection Corner Ramp Plan | | |
|-------------------------------|------------------------|--|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: ICRP | Subset Sheets: 4 OF 15 | |

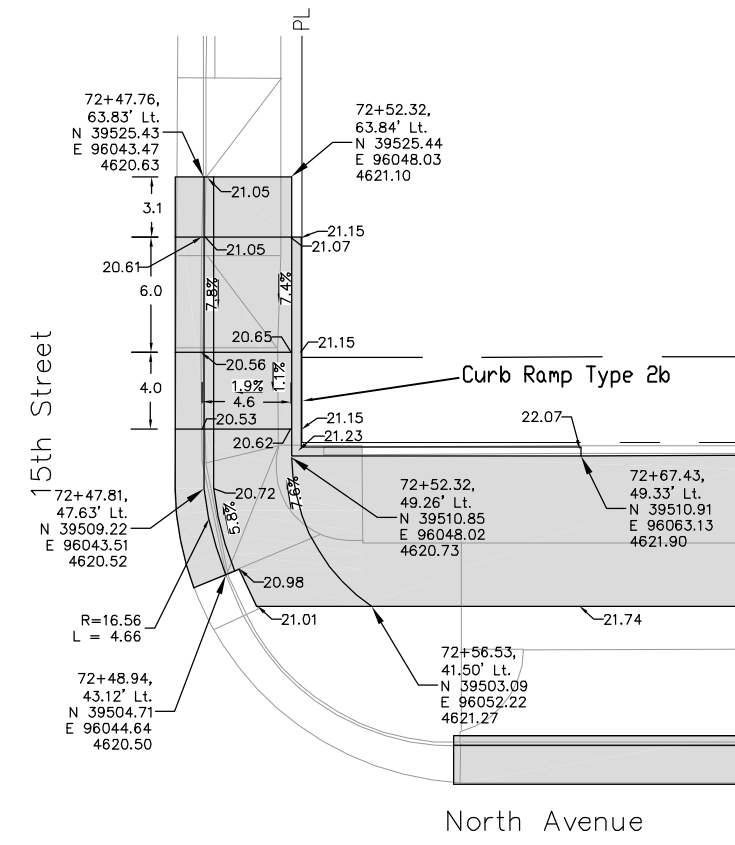
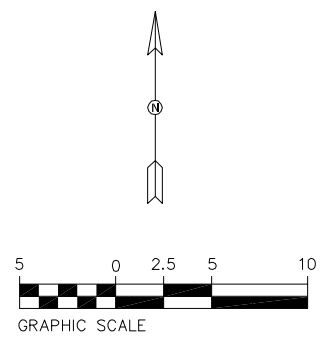
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 57 |

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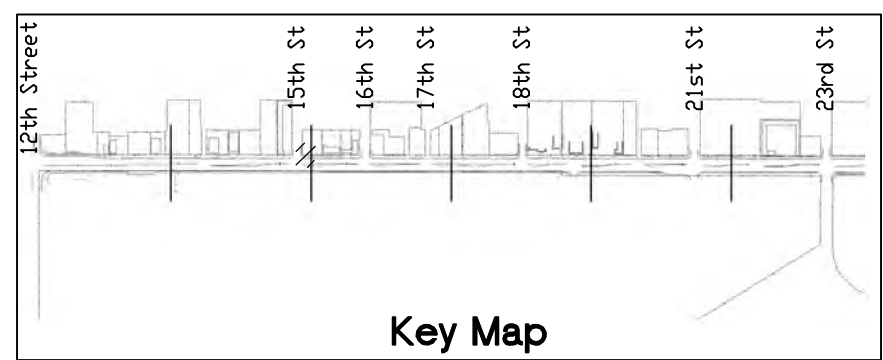
EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



Existing Conditions



Proposed Ramp Improvements

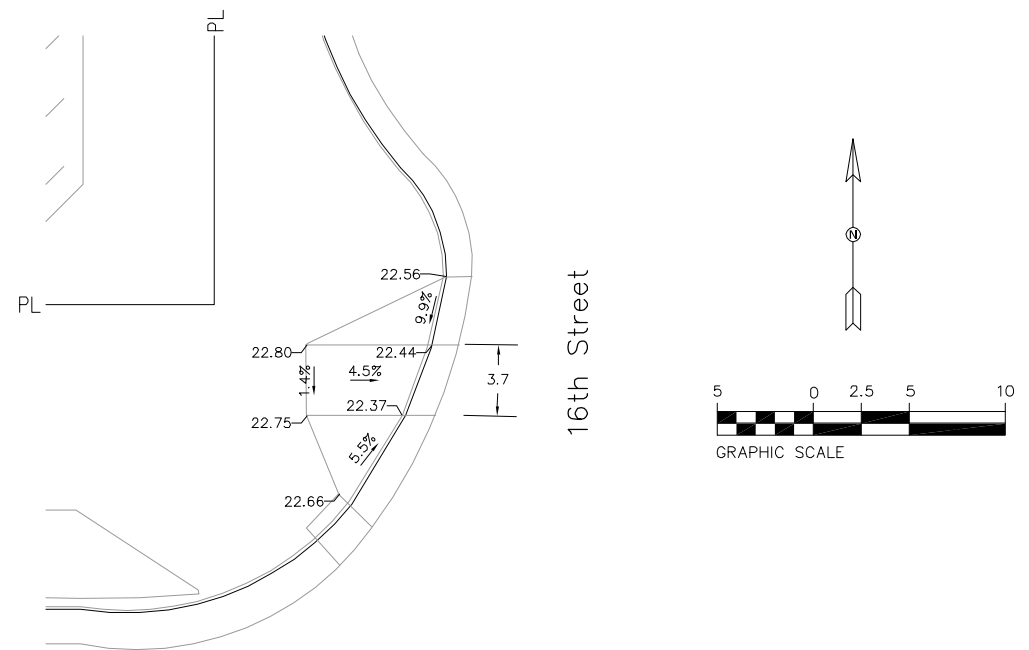


Key Map

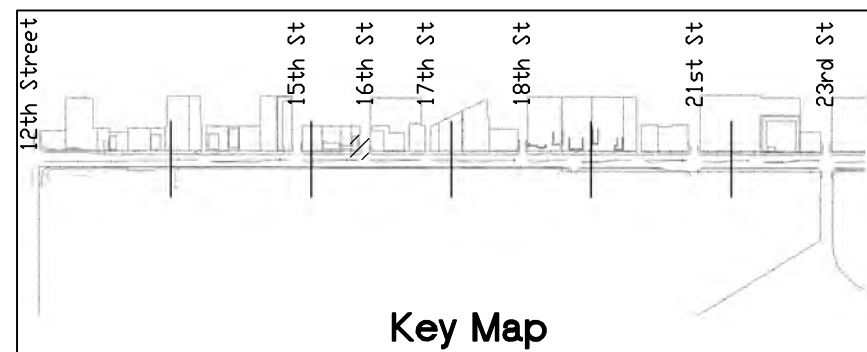
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|--|------|-----------------|----------|-------|---|---------------|----------------|----------------------|-------------------------------|------------------------|------------------|-----------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | No Revisions: | | Designer: John Smith | | TCSP M555-029 | | | |
| Horiz. Scale: 1:10 | | | | | | Revised: | | Detailer: John Smith | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | | Sheet Subset: ICRP | | Subset Sheets: 5 OF 15 | | Sheet Number 58 | |

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**MEASURED SLOPES AND WIDTHS
FOR THIS CURB RAMP CONFORM
TO A. D. A. REQUIREMENTS**



North Avenue
Existing Conditions



Key Map

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:10 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Sheet Revisions | | |
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Colorado Department of Transportation
 606 South 9th Street
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 Region 3 RBB

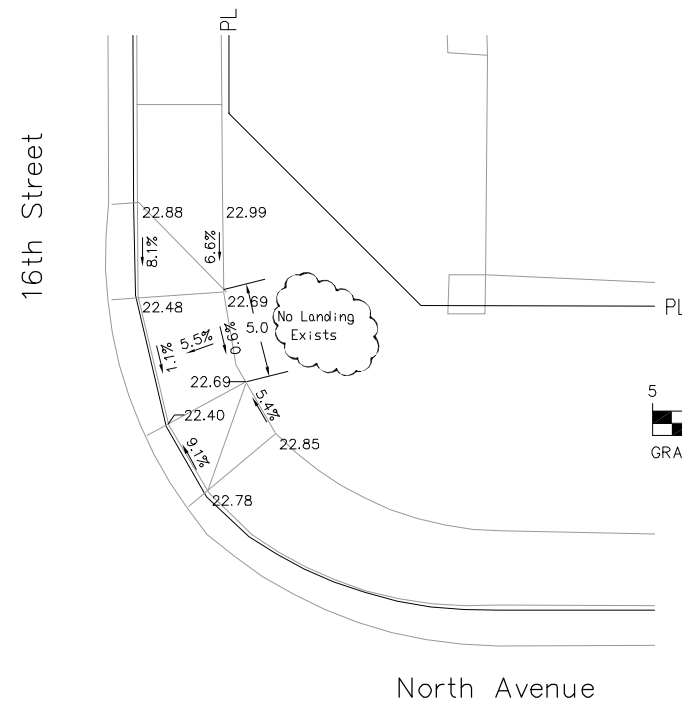
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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| Intersection Corner Ramp Plan | | |
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: ICRP | Subset Sheets: 6 OF 15 | |

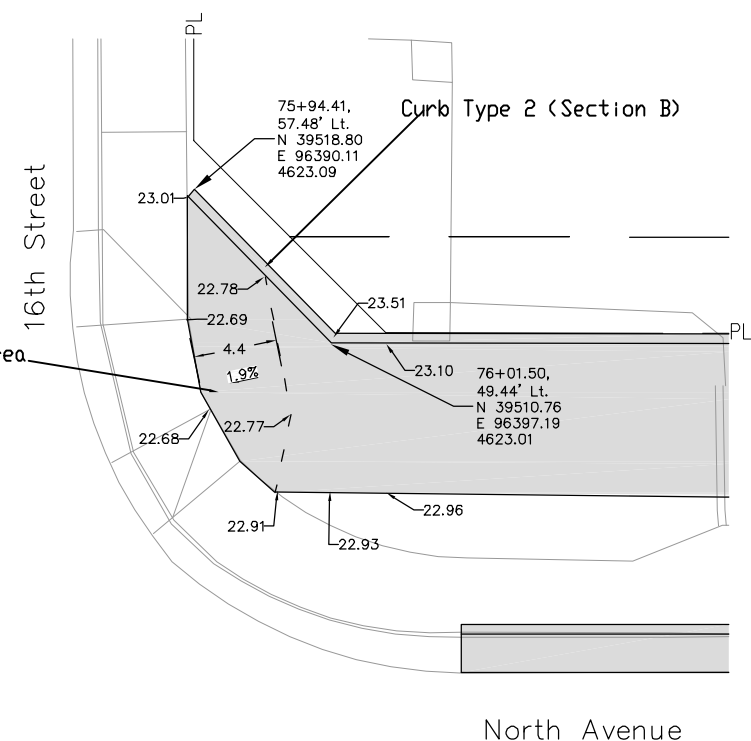
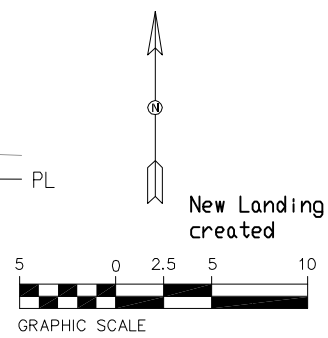
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 59 |

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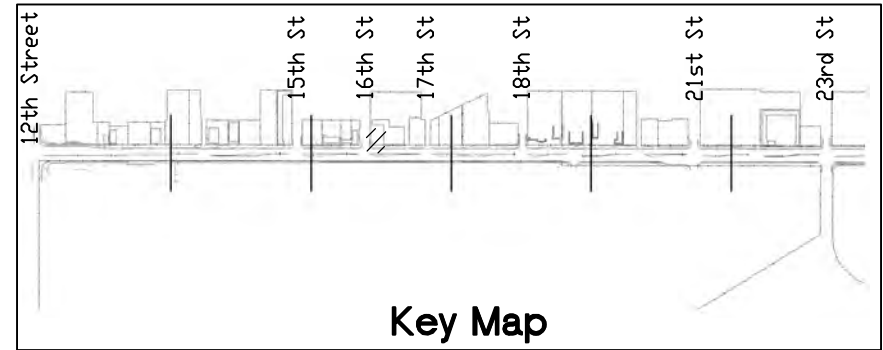
EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



Existing Conditions



Proposed Ramp Improvements

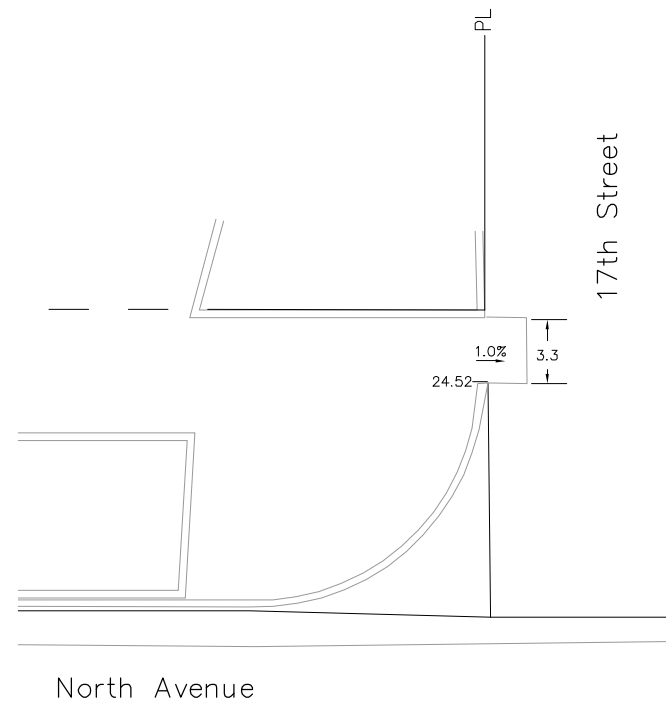


Key Map

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|--|------|-----------------|----------|-------|--|----------------|----------------------|-------------------------------|------------------------|------------------|--|
| Print Date: AT LEFT | 0000 | Sheet Revisions | | |  Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | TCSP M555-029 | | | | |
| Horiz. Scale: 1:10 Vert. Scale: NA | | | | | | Revised: | Designer: John Smith | Structure Numbers | 19365 | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | Subset Sheets: 7 OF 15 | Sheet Number 60 | | |

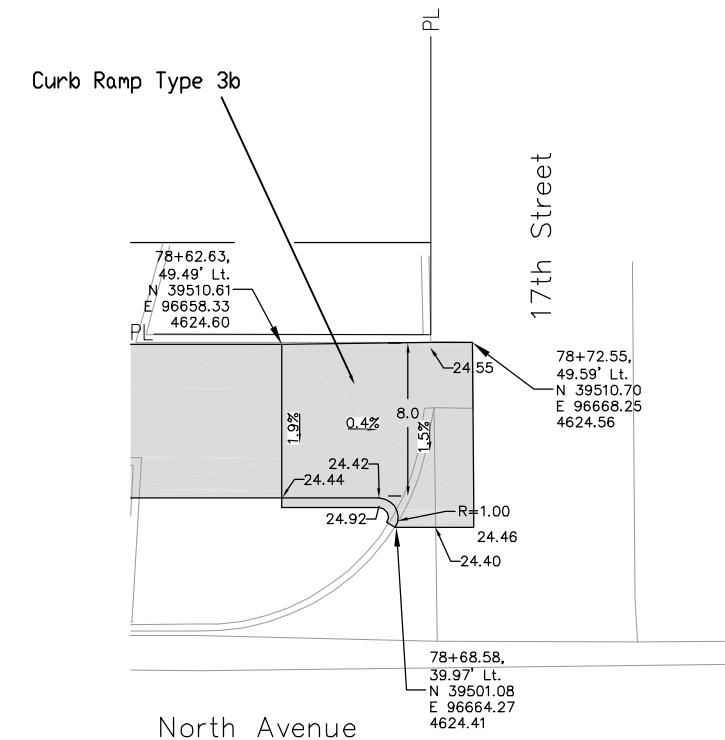
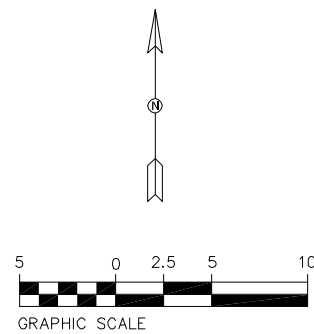
N:\Cadd\John Smith\Projects\NORTH AVE)\ACAD Drawings\roadway plans with city std dwy cuts.dwg, 8/20/2015 12:42:52 PM

THIS RAMP WILL BE REPLACED
AS A PART OF THE WORK REQUIRED
TO PROVIDE A DETACHED WALK



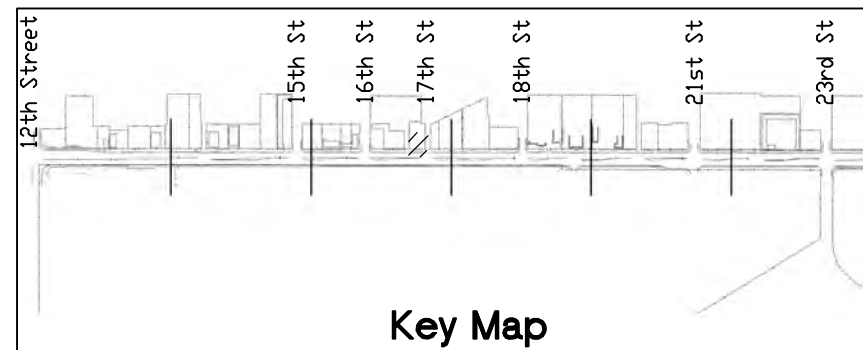
North Avenue

Existing Conditions



North Avenue

Proposed Ramp Improvements



Key Map

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:10 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

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Region 3 RBB

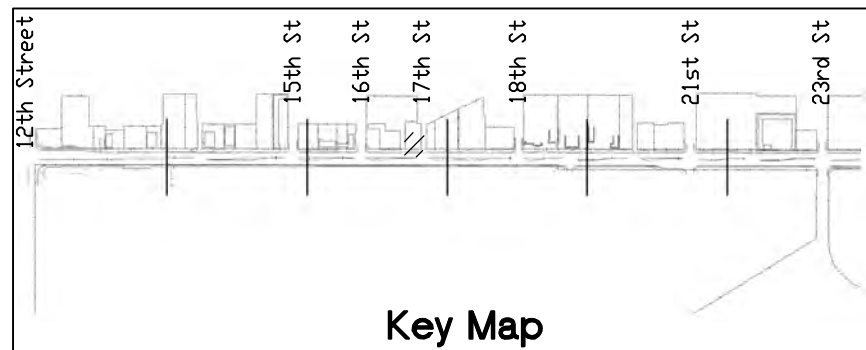
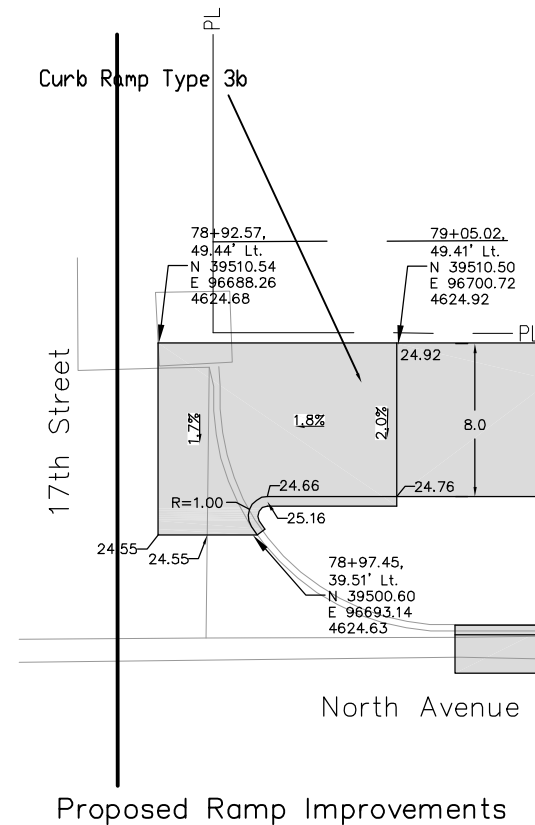
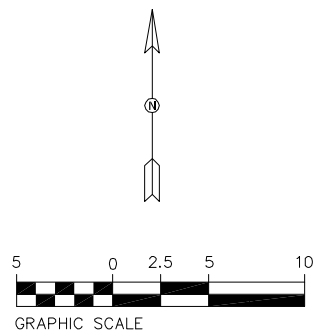
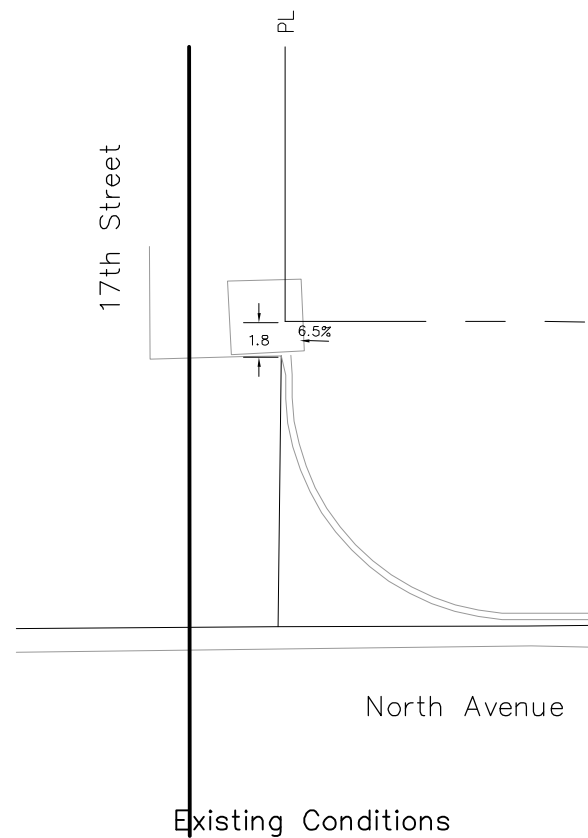
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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|-------------------------------|------------------------|--|
| Intersection Corner Ramp Plan | | |
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: ICRP | Subset Sheets: 8 OF 15 | |

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|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 61 |

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THIS RAMP WILL BE REPLACED
AS A PART OF THE WORK REQUIRED
TO PROVIDE A DETACHED WALK




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| Print Date: AT LEFT |
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| Horiz. Scale: 1:10 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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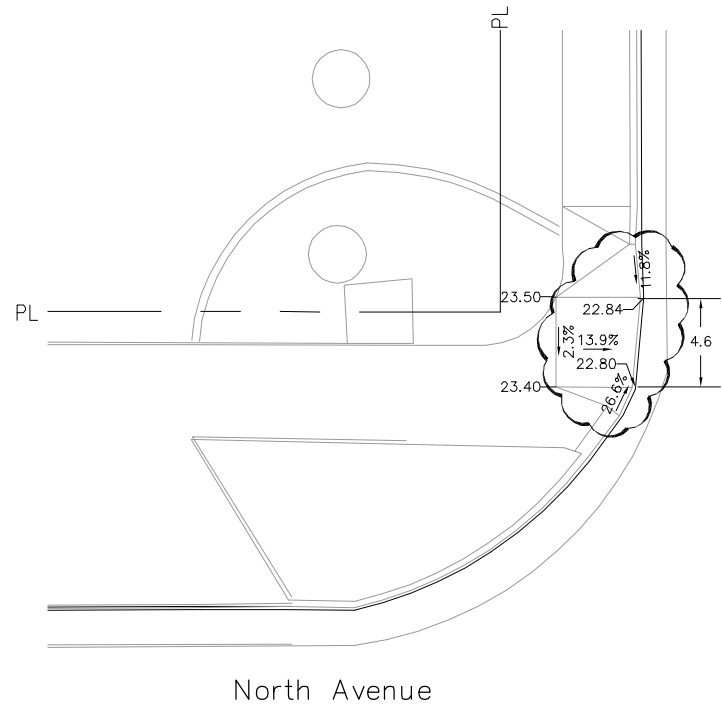
Region 3 RBB

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| No Revisions: |
| Revised: |
| Void: |

| Intersection Corner Ramp Plan | | |
|-------------------------------|------------------------|--|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: ICRP | Subset Sheets: 9 OF 15 | |

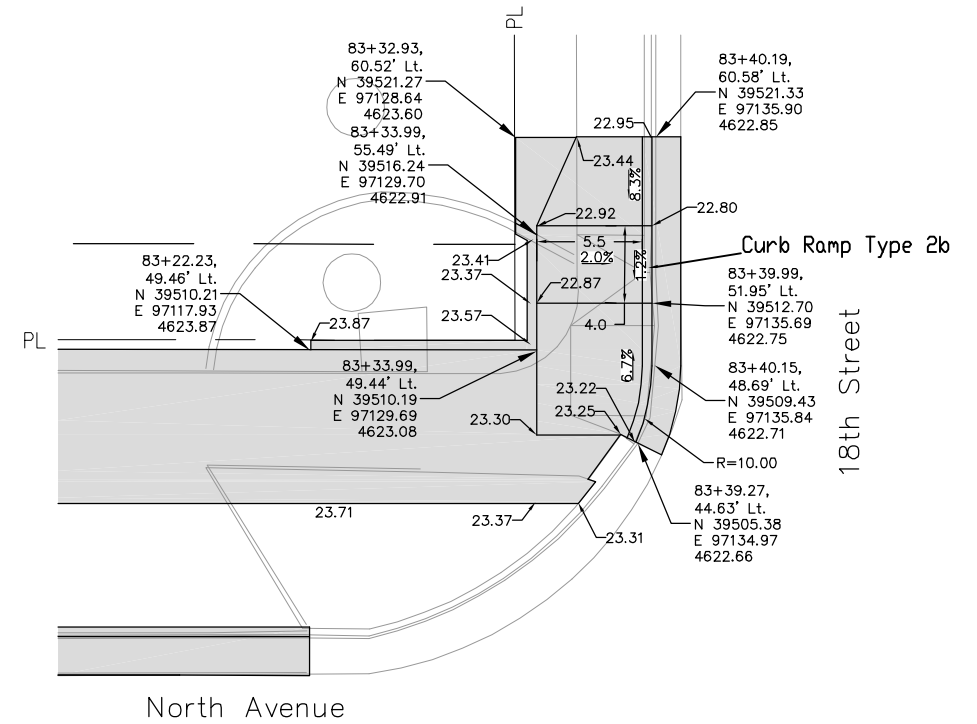
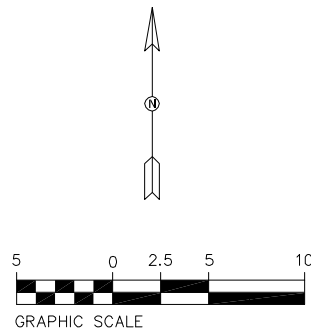
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|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 62 |

EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS

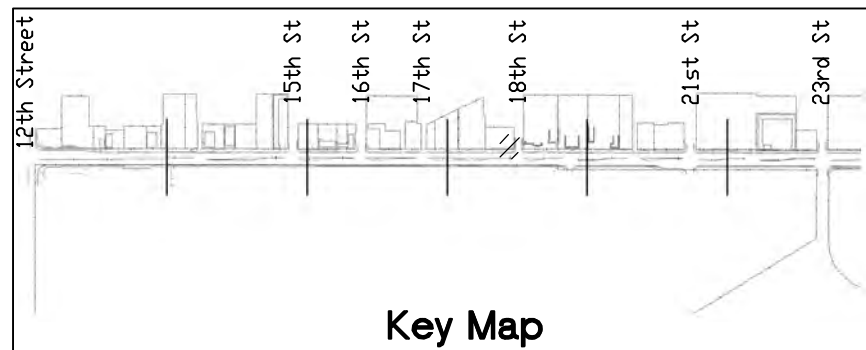


Existing Conditions

18th Street



Proposed Ramp Improvements




Key Map

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Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:10 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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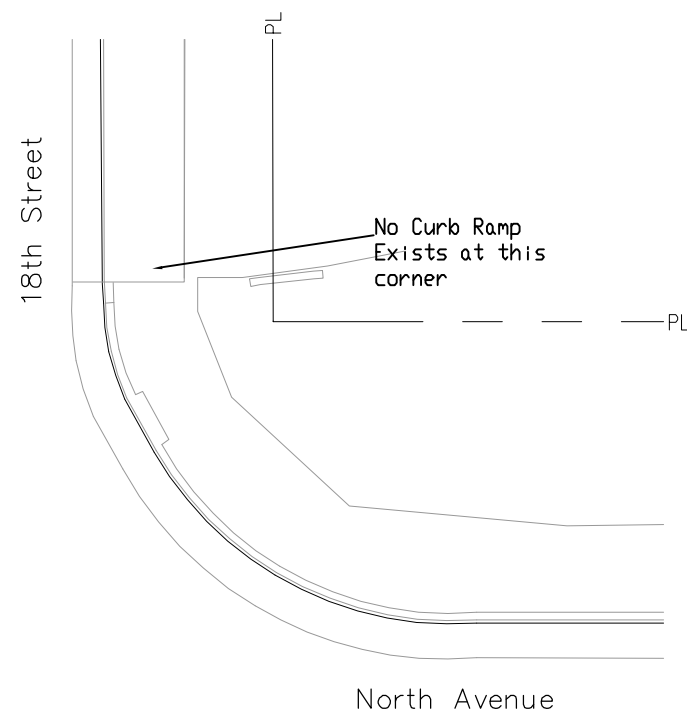
Colorado Department of Transportation

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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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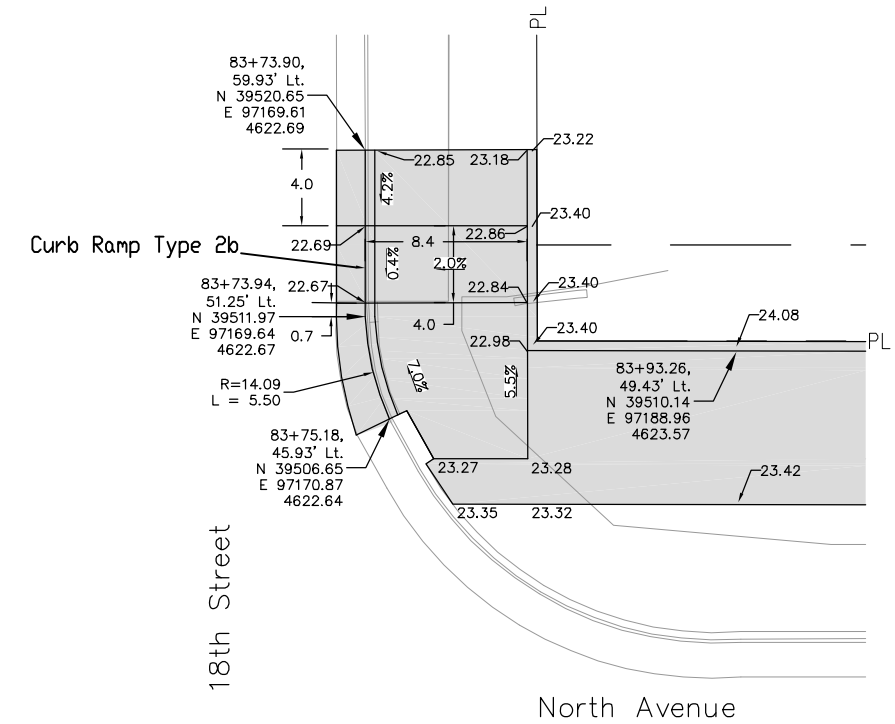
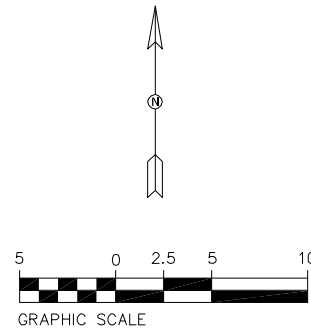
Intersection Corner Ramp Plan
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset: ICRP
 Structure Numbers
 Subset Sheets: 10 OF 15

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **63**

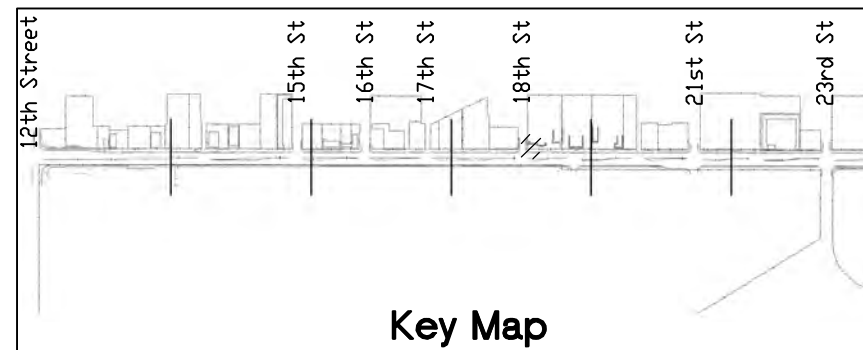
EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



Existing Conditions



Proposed Ramp Improvements



Key Map

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation



606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

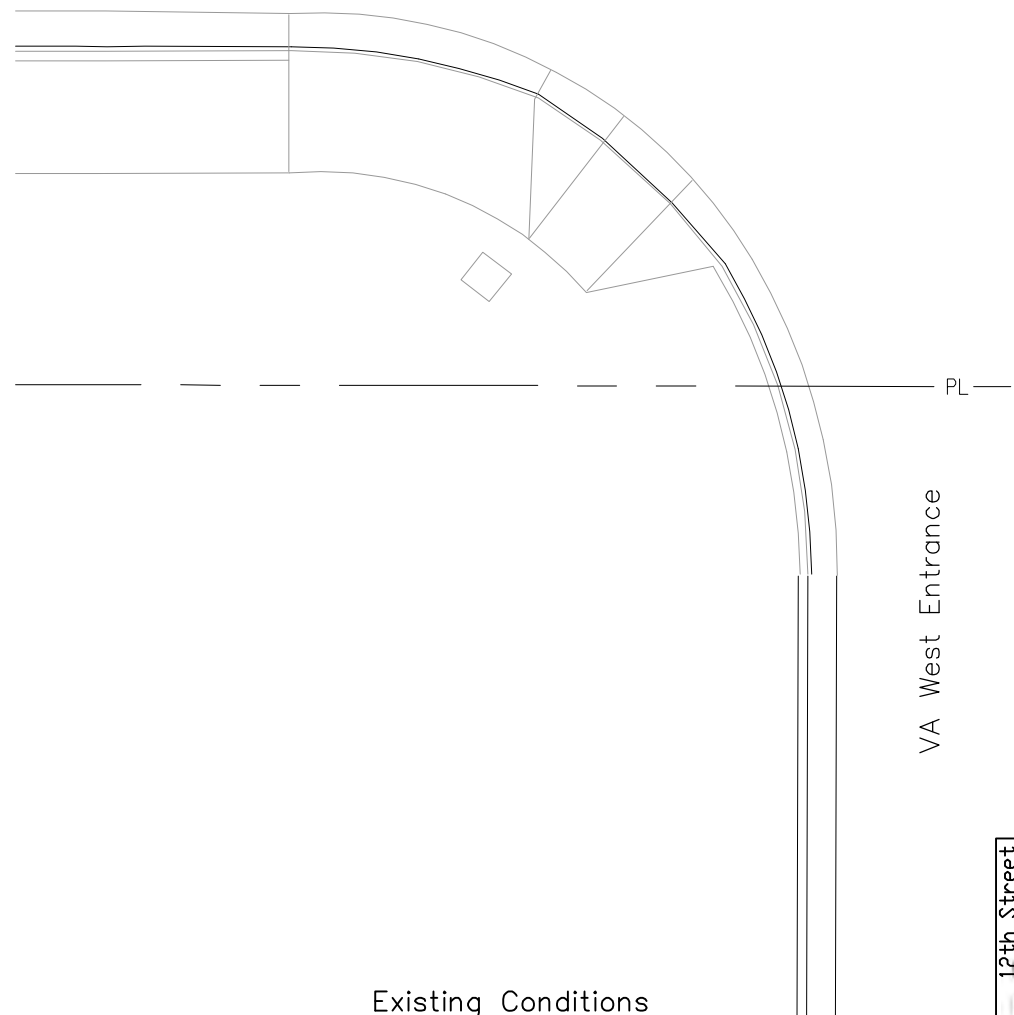
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| Intersection Corner Ramp Plan | | |
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: ICRP | Subset Sheets: 11 OF 15 | |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 64 |

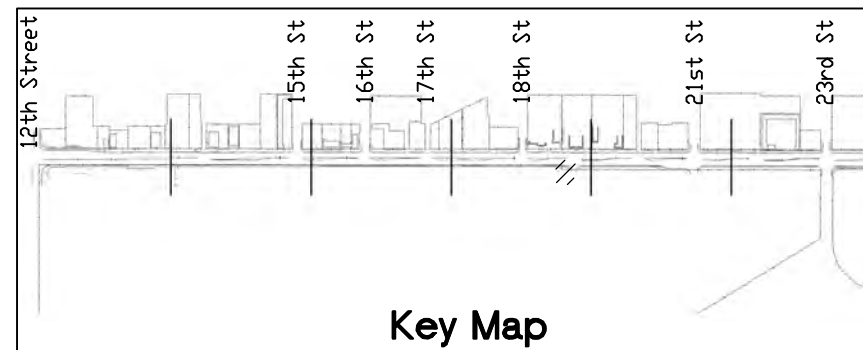
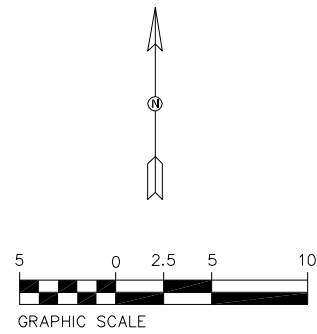
**THIS RAMP WILL BE REPLACED
AS A PART OF THE WORK REQUIRED
TO PROVIDE A RIGHT TURN LANE**

North Avenue



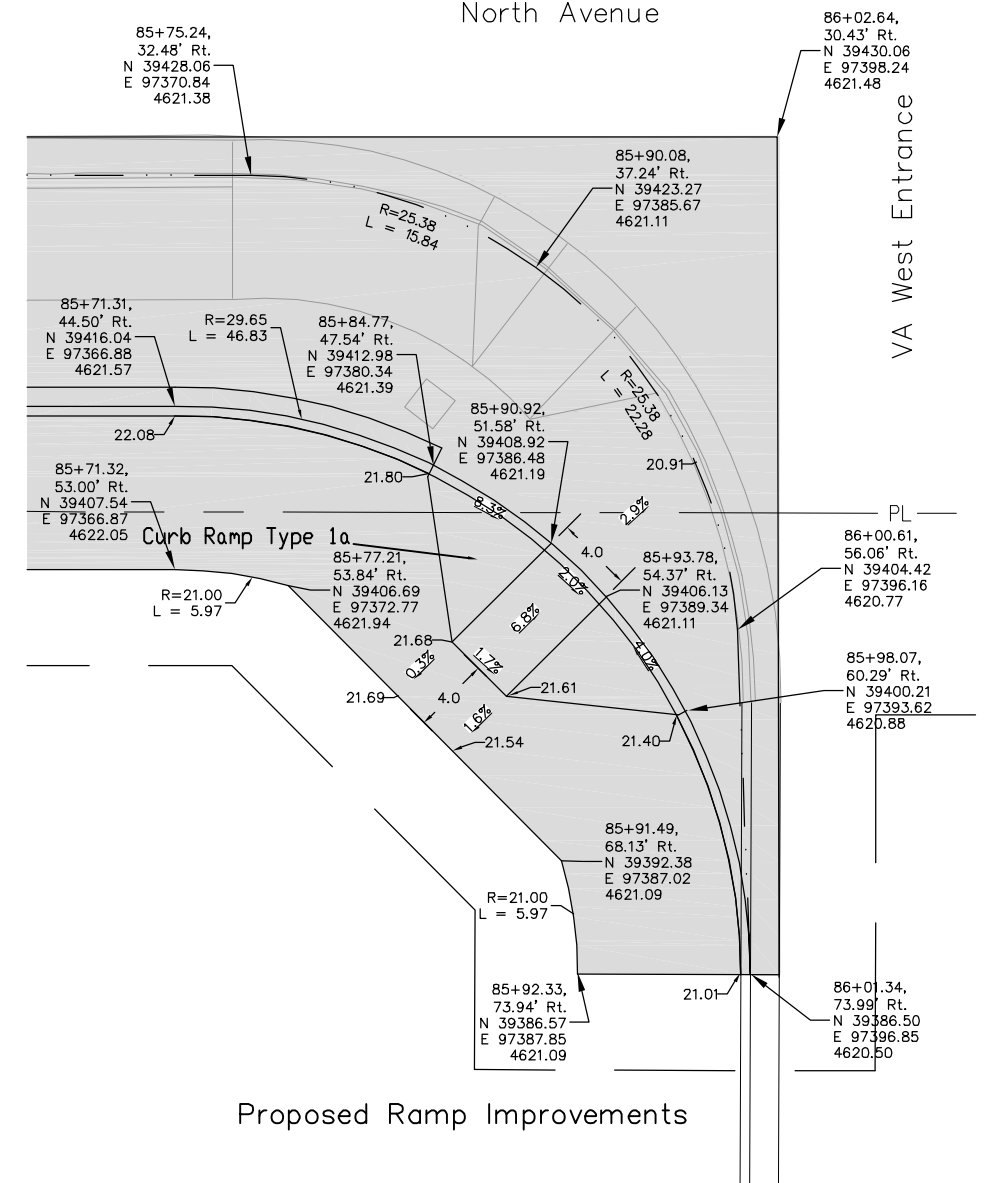
Existing Conditions

VA West Entrance



Key Map

North Avenue



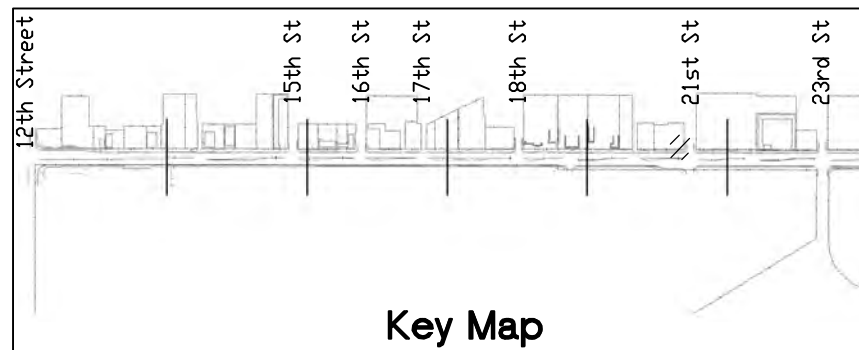
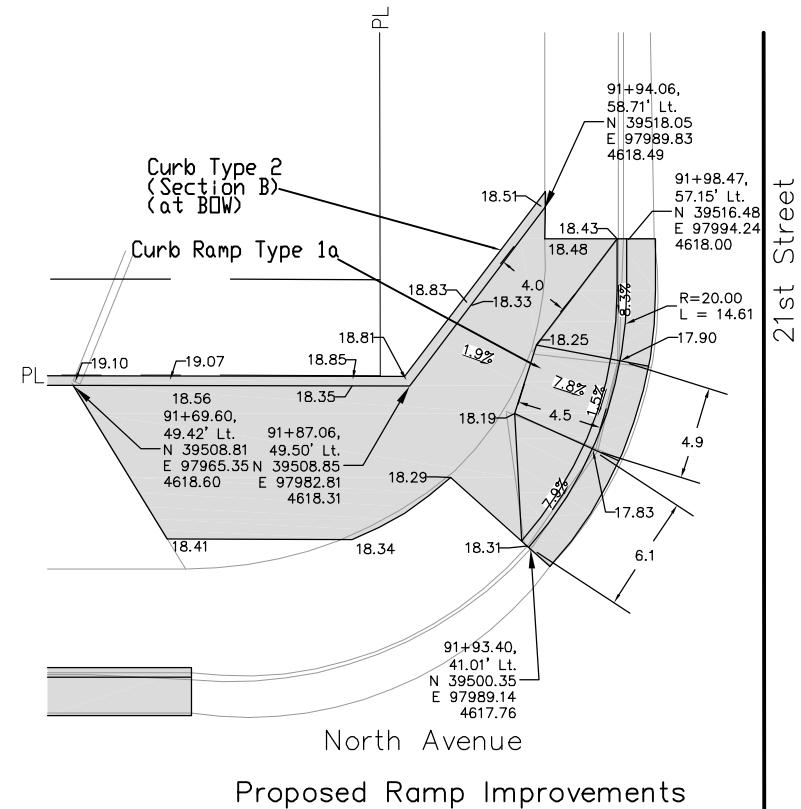
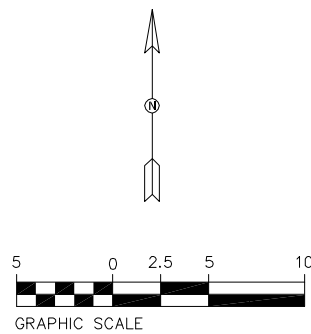
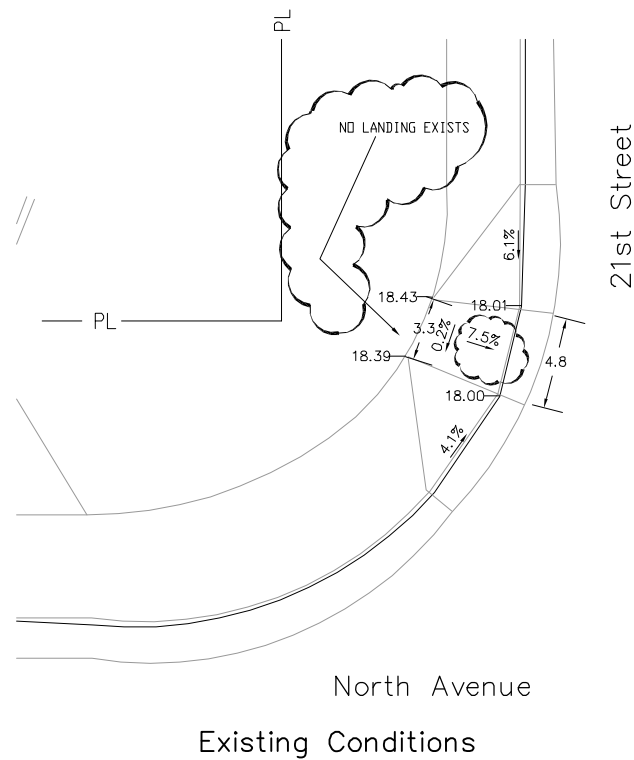
Proposed Ramp Improvements

VA West Entrance

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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:10 | | Vert. Scale: NA | | | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Void: | | Sheet Subset: ICRP | | Subset Sheets: 12 OF 15 | |

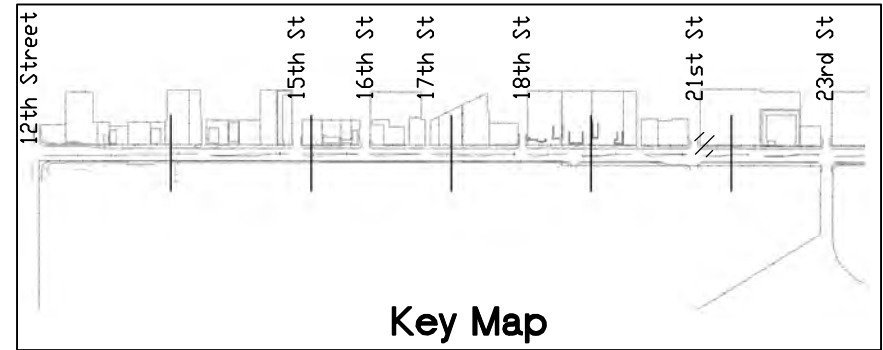
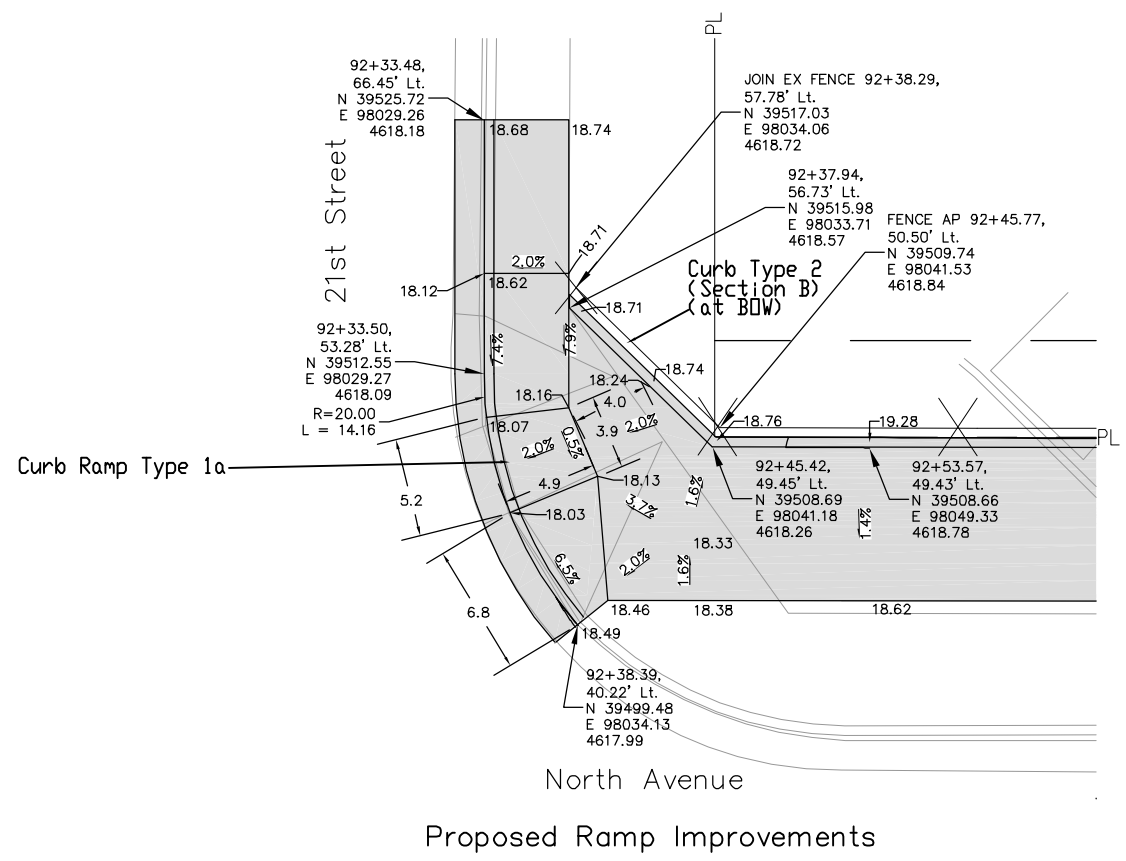
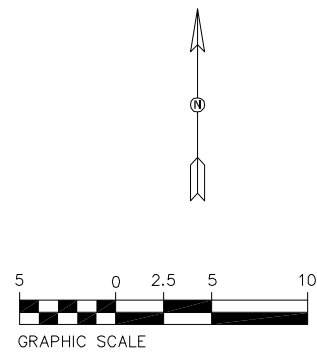
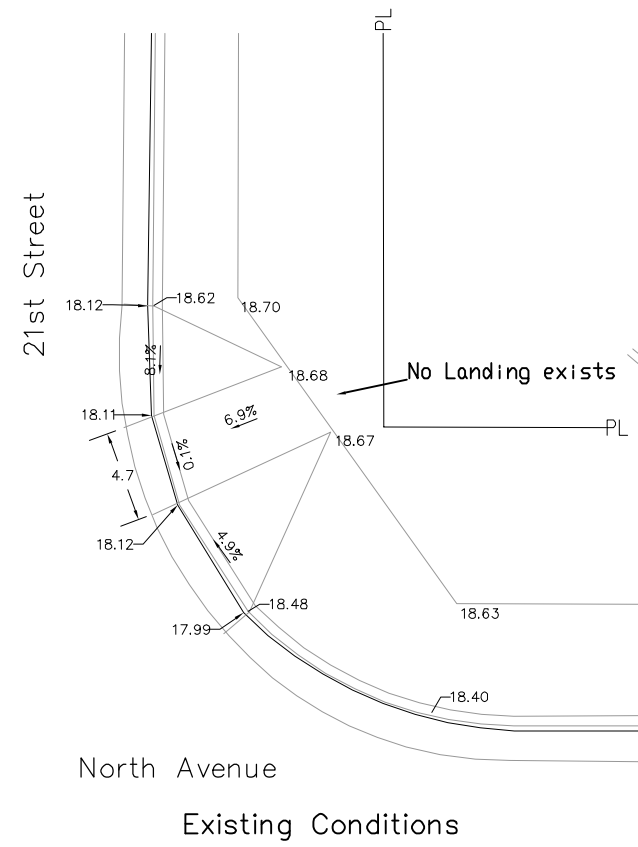
EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | | | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: ICRP | | TCSP M555-029 | | | |
| Horiz. Scale: 1:10 Vert. Scale: NA | | | | | | | Revised: | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Void: | | | | Subset Sheets: 13 OF 15 | | Sheet Number 66 | |
| | | | | | Region 3 RBB | | | | | | | | | |

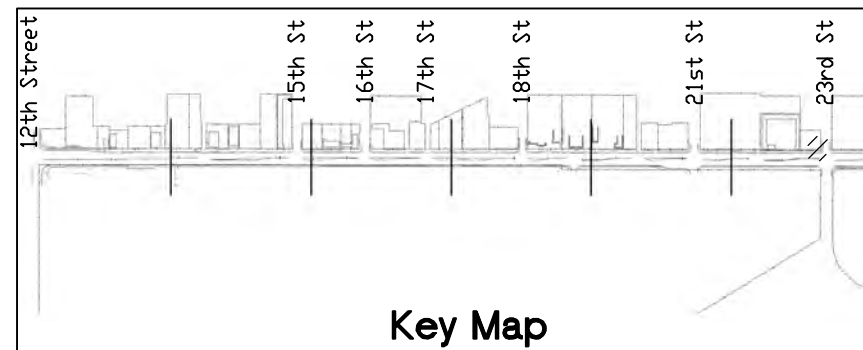
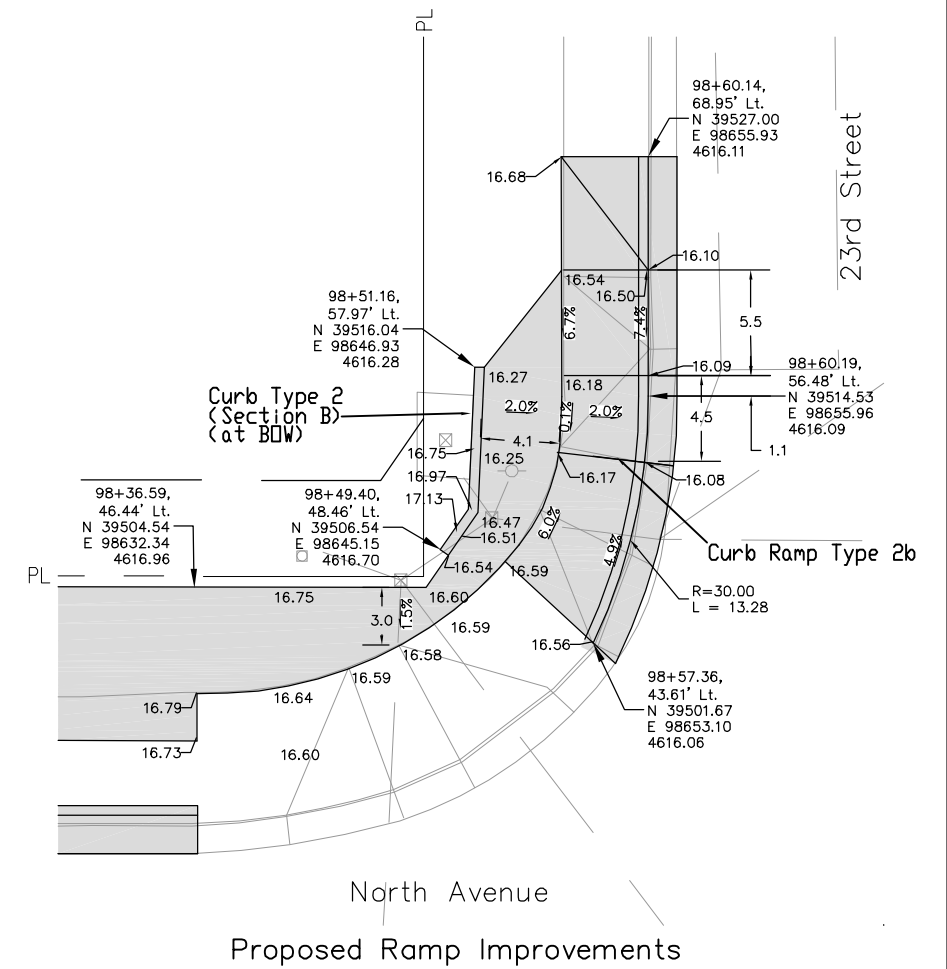
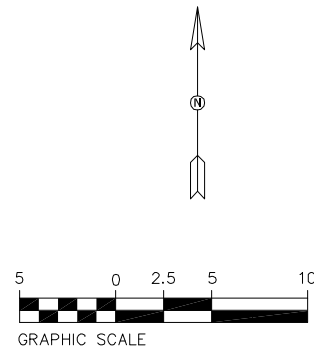
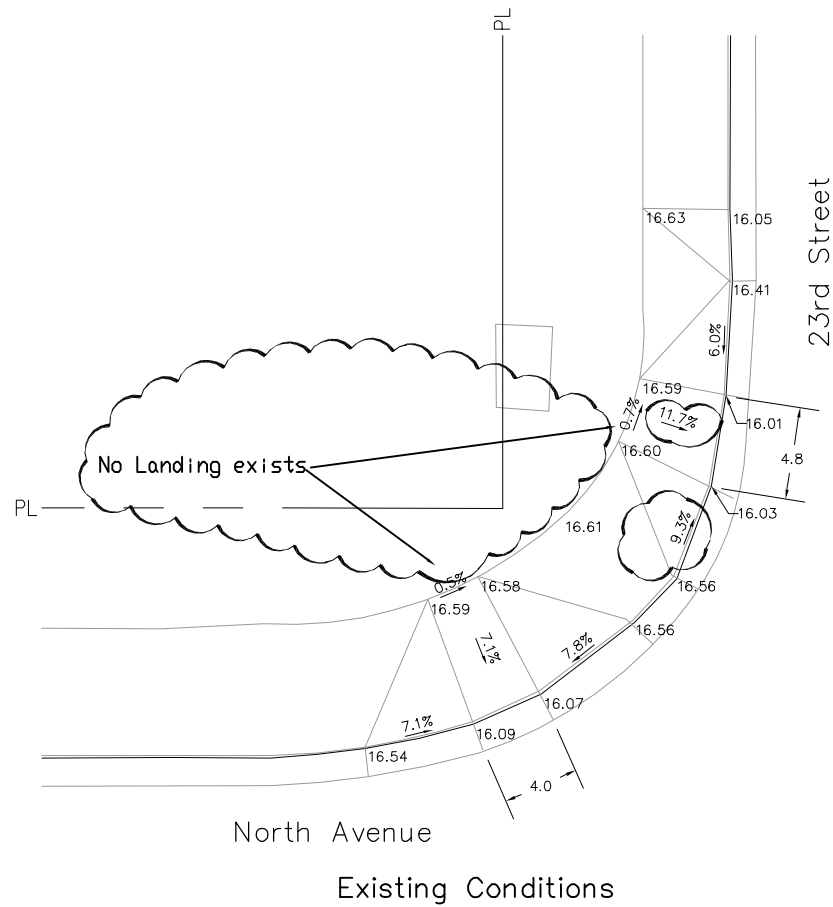
EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS



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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed | | Intersection Corner Ramp Plan | | Project No./Code | |
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| Horiz. Scale: 1:10 | | Vert. Scale: NA | | | | | Revised: | Designer: John Smith | Structure Numbers | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Void: | Detailer: John Smith | Subset Sheets: 14 OF 15 | Sheet Number 67 | |

EITHER MEASURED SLOPES AND/OR WIDTHS FOR THIS CURB RAMP DO NOT CONFORM TO A. D. A. REQUIREMENTS




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| Print Date: AT LEFT | 0000 |
| File Name: AT LEFT | |
| Horiz. Scale: 1:10 Vert. Scale: NA | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | |

| Sheet Revisions | | |
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Colorado Department of Transportation



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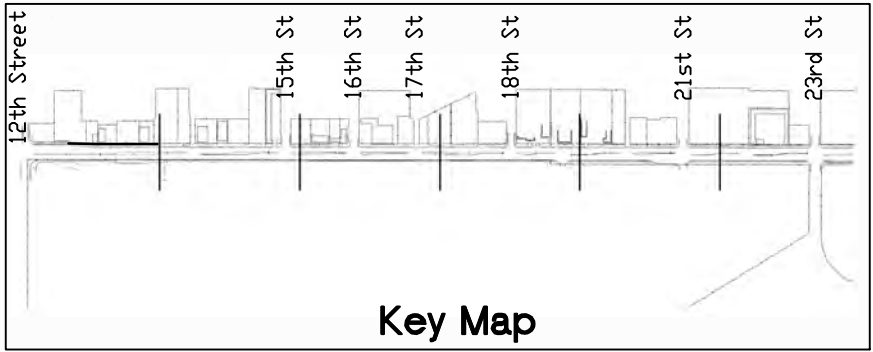
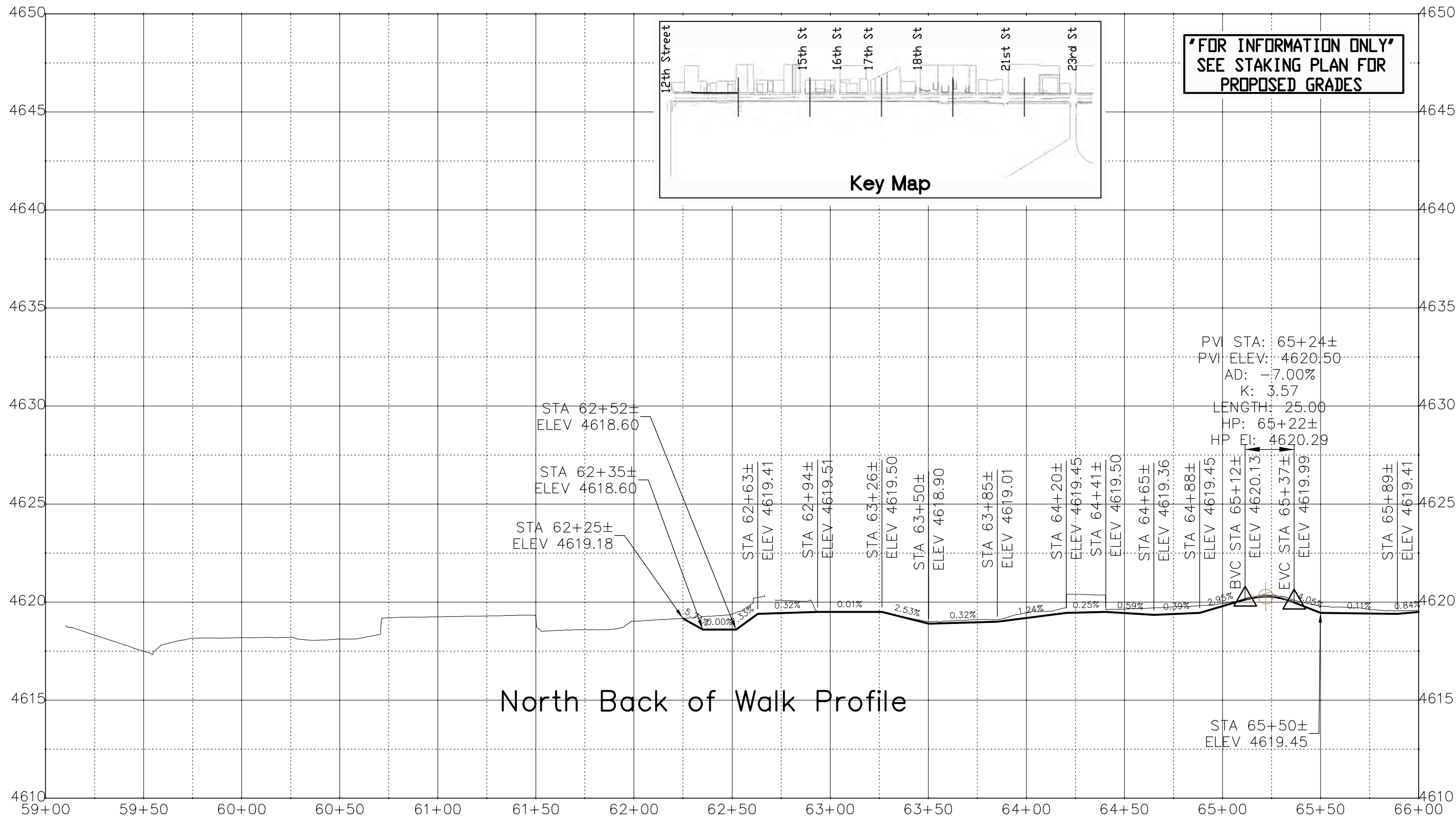
Region 3 RBB

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| Intersection Corner Ramp Plan | | |
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: ICRP | Subset Sheets: 15 OF 15 | |

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|------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 68 |

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**"FOR INFORMATION ONLY"
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PROPOSED GRADES**

North Back of Walk Profile

Print Date: AT LEFT
File Name: AT LEFT
Horiz. Scale: 1:50 Vert. Scale: NA
Unit Information: City of GJ Unit Leader Initials: DPJ



| Sheet Revisions | | |
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| Date: | Comments | Init. |
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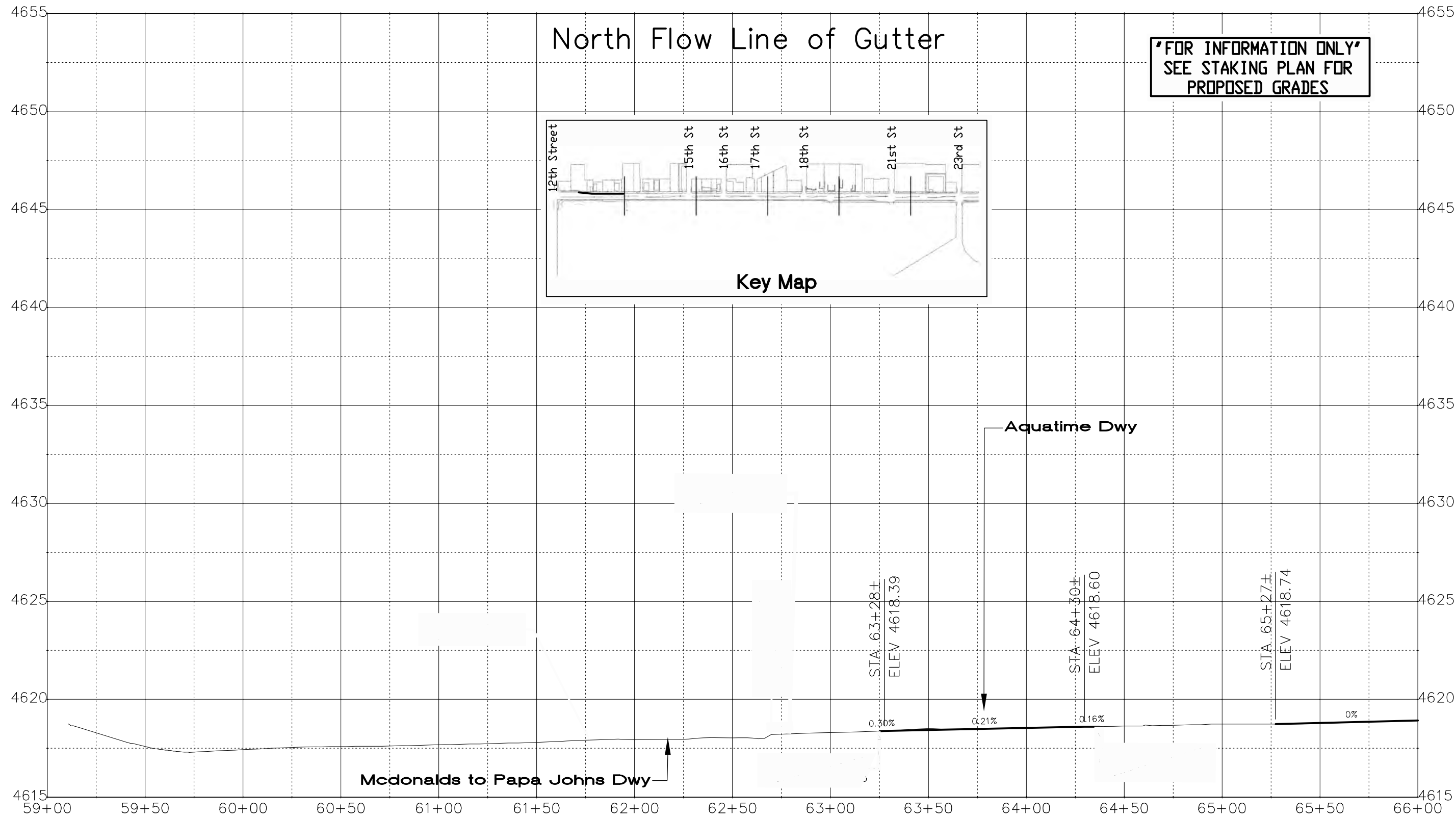
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| As Constructed |
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| Roadway Profile | | |
|----------------------|-------------------|---------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: RD PRO | Subset Sheets: | 1 of 17 |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 69 |

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Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ



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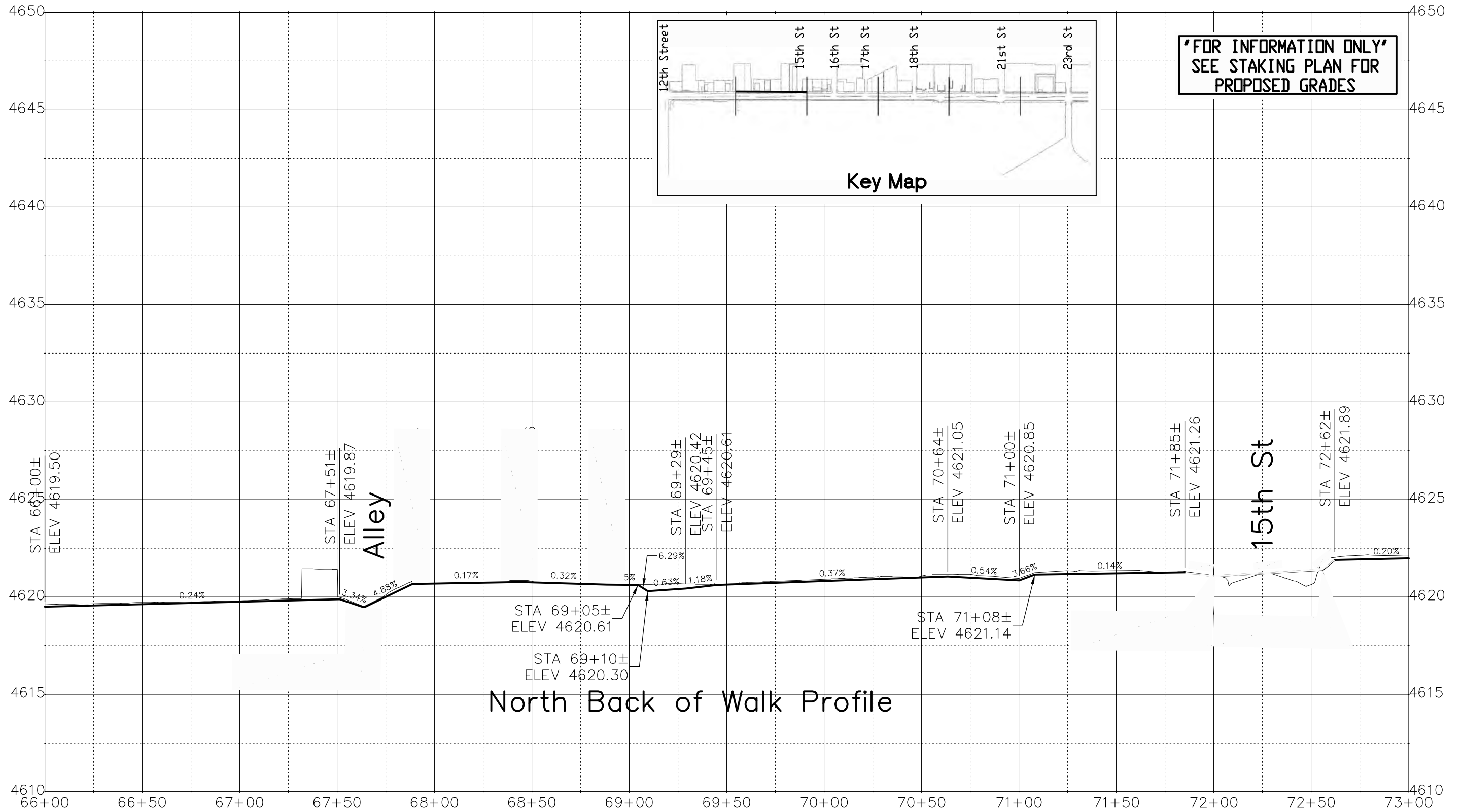
As Constructed
 No Revisions:
 Revised:
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Roadway Profile

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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | Subset Sheets: 2 of 17 |
| Sheet Subset: RD PRO | |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **70**


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 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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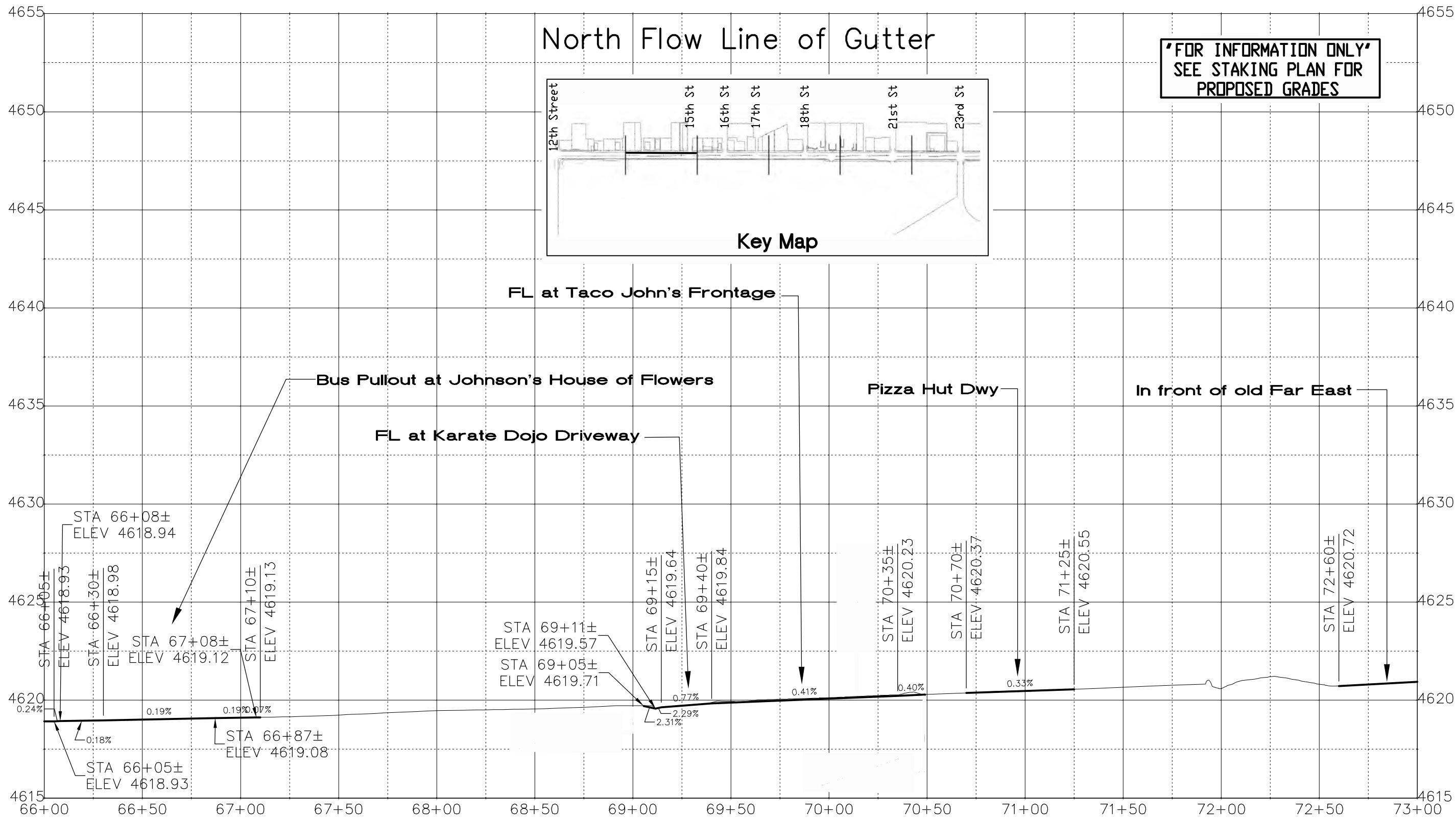
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Roadway Profile

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| Detailer: John Smith | |
| Sheet Subset: RD PRO | Subset Sheets: 3 of 17 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **71**

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**'FOR INFORMATION ONLY'
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Print Date: AT LEFT
File Name: AT LEFT
Horiz. Scale: 1:50 Vert. Scale: NA
Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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Region 3 RBB

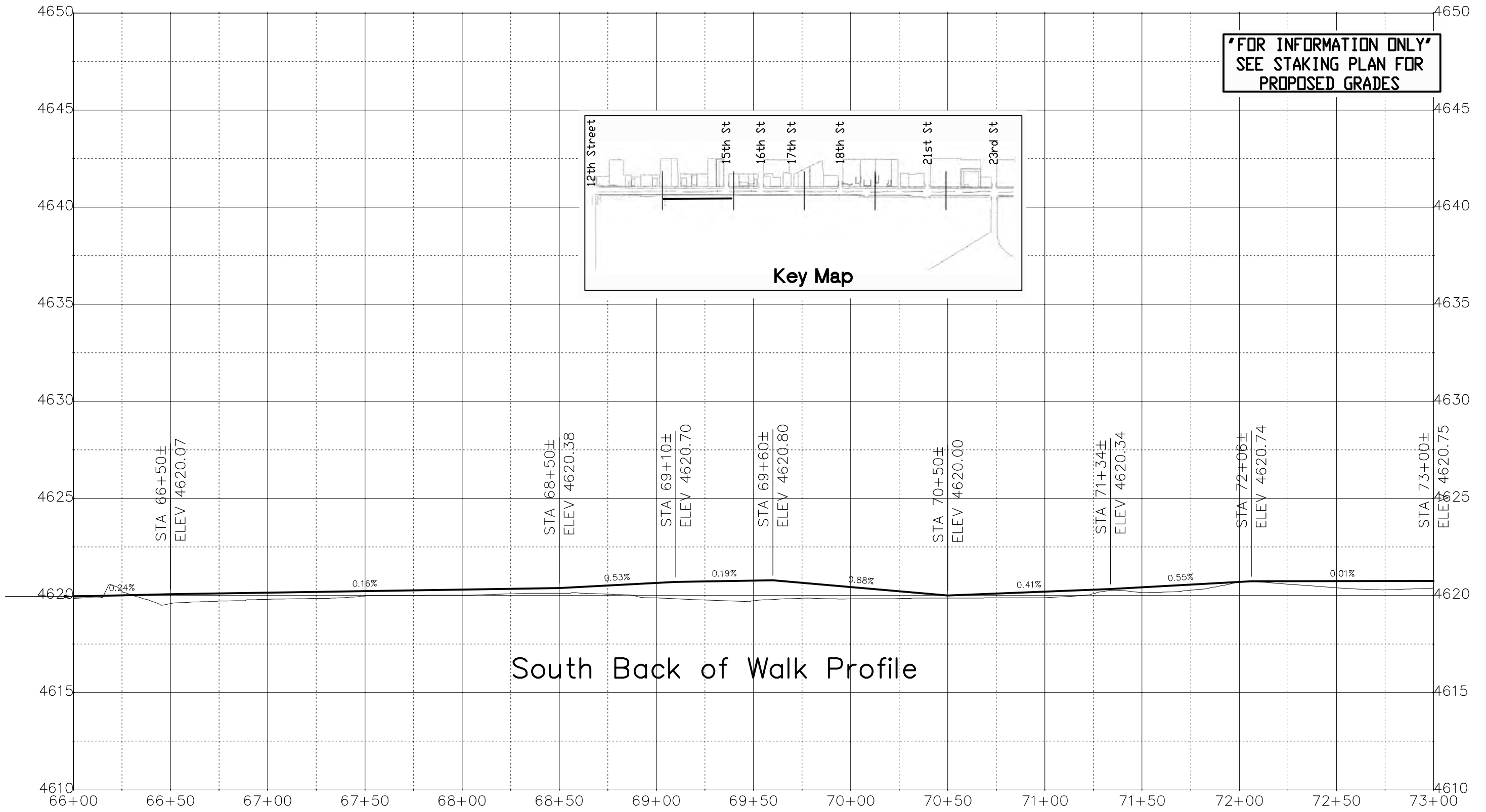
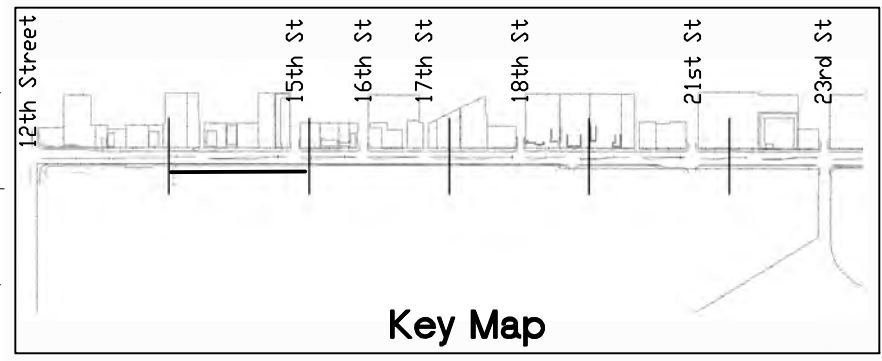
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| Detailer: John Smith | | |
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| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 72 |

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PROPOSED GRADES**



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| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Region 3 RBB

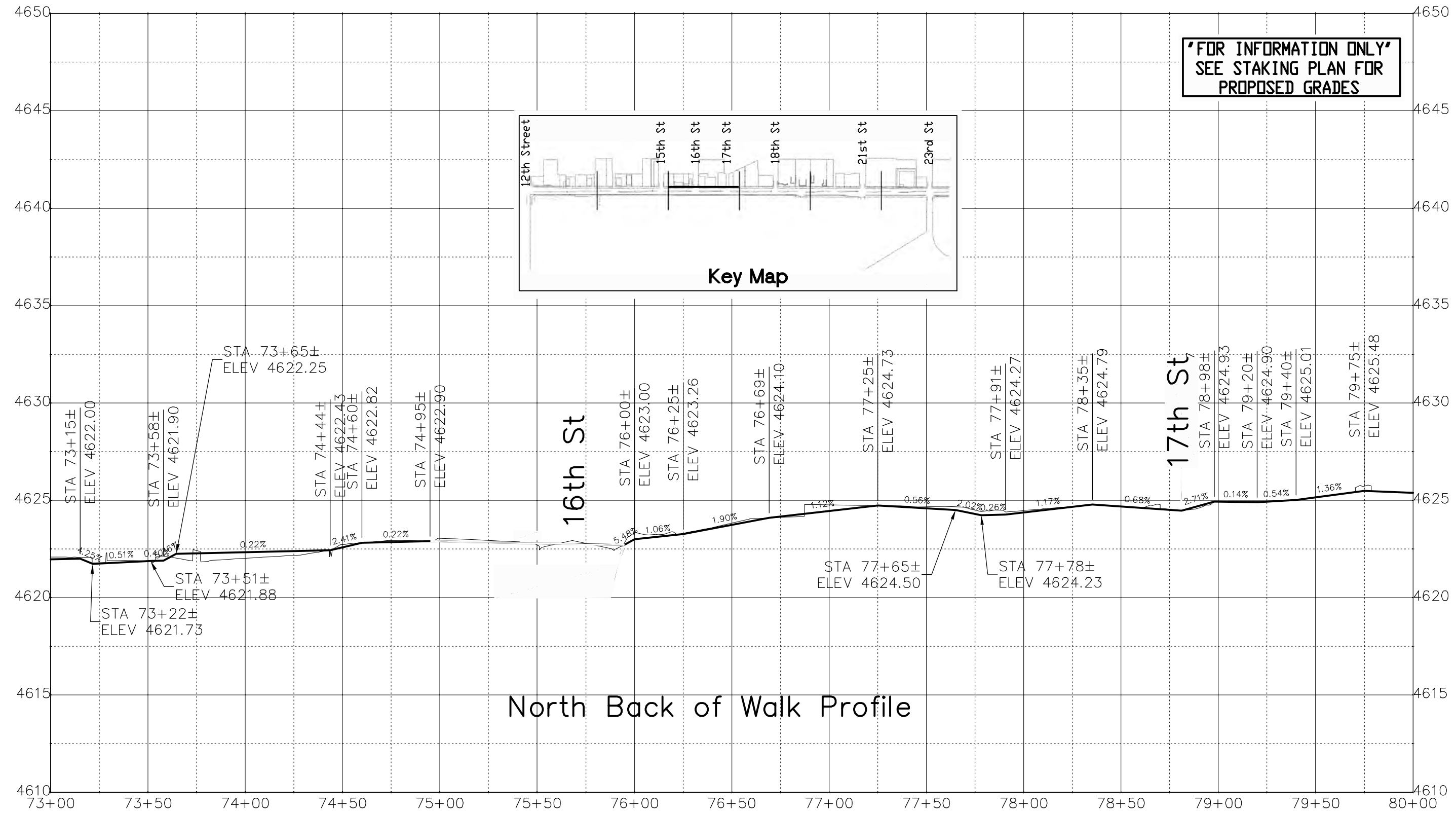
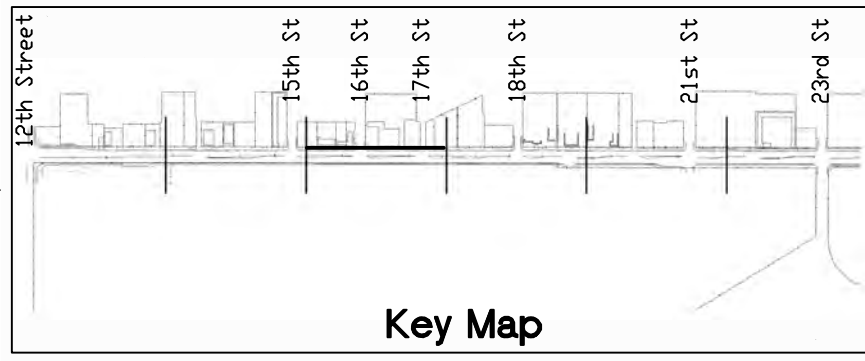
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| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | Subset Sheets: | 5 of 17 |
| Sheet Subset: RD PRO | | |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 73 |

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PROPOSED GRADES



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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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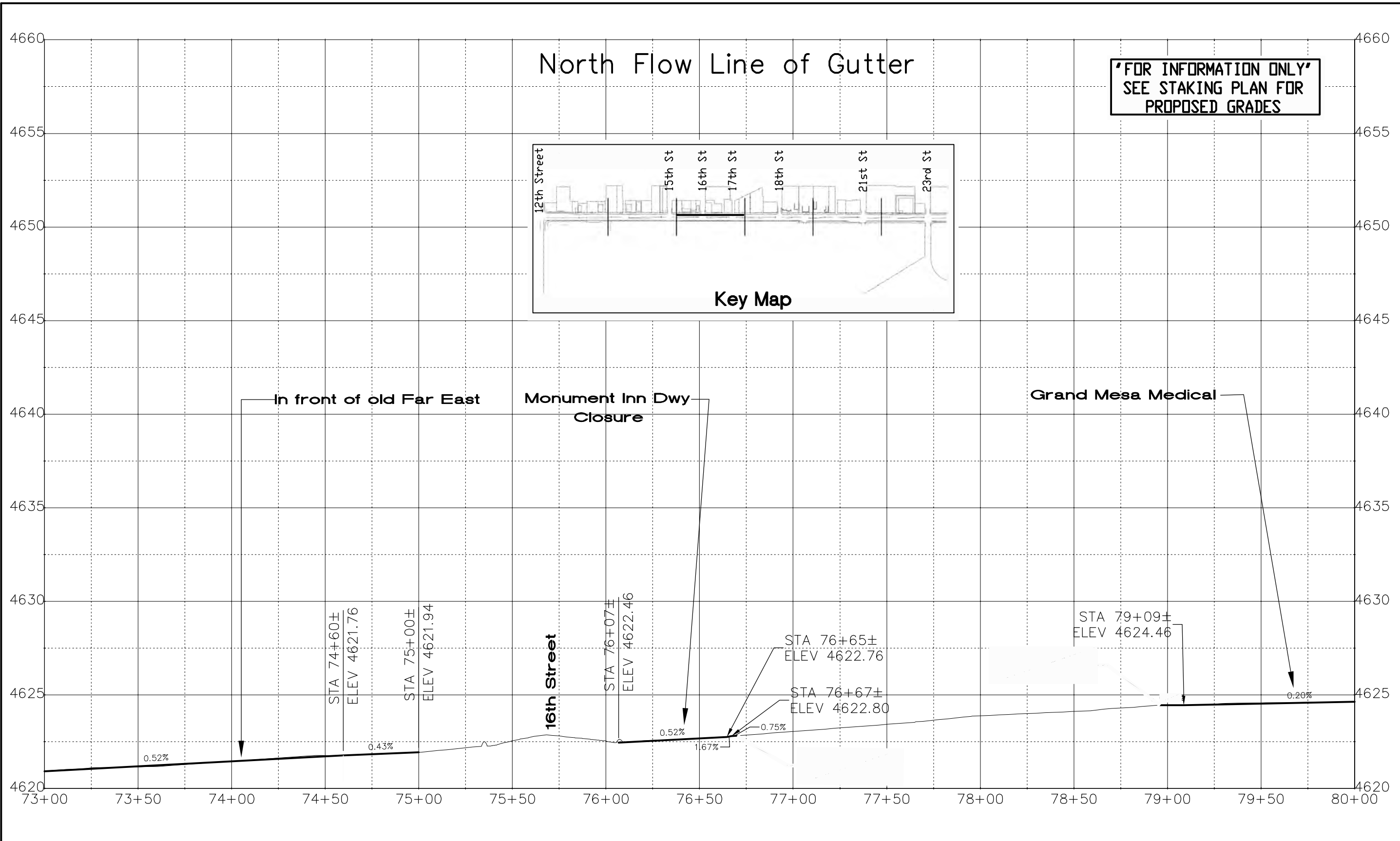
 606 South 9th Street
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| As Constructed |
| No Revisions: |
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| Roadway Profile | |
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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
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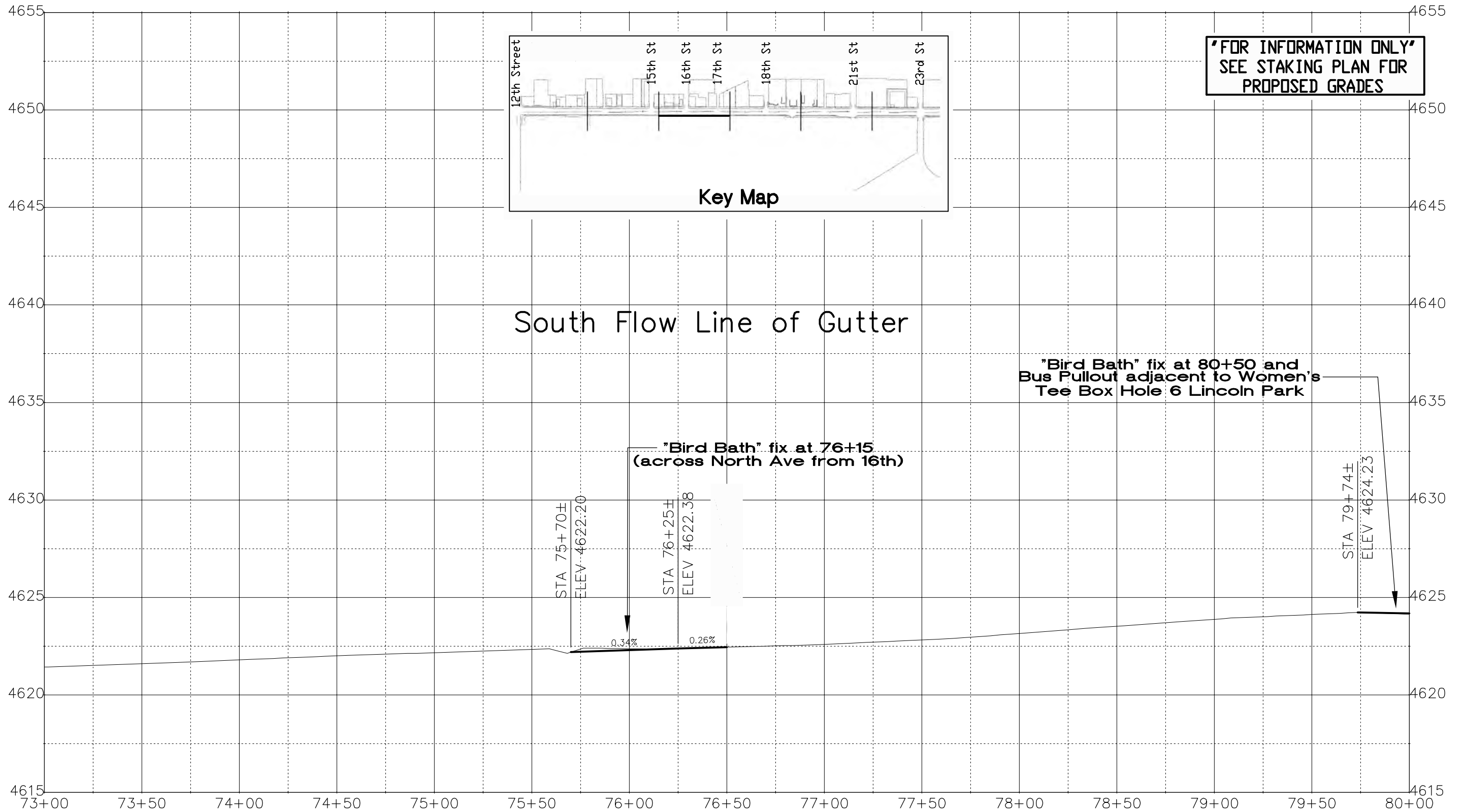
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| Sheet Number 74 |

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| Print Date: AT LEFT File Name: AT LEFT Horiz. Scale: 1:50 Vert. Scale: NA Unit Information: City of GJ Unit Leader Initials: DPJ | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 15%;">Date:</th> <th style="width: 65%;">Comments</th> <th style="width: 20%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | | | | <p>Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">As Constructed</th> </tr> </thead> <tbody> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </tbody> </table> | As Constructed | | No Revisions: | | Revised: | | Void: | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Roadway Profile</th> </tr> </thead> <tbody> <tr> <td>Designer: John Smith</td> <td>Structure Numbers</td> </tr> <tr> <td>Detailer: John Smith</td> <td> </td> </tr> <tr> <td>Sheet Subset: RD PRO</td> <td>Subset Sheets: 7 of 17</td> </tr> </tbody> </table> | Roadway Profile | | Designer: John Smith | Structure Numbers | Detailer: John Smith | | Sheet Subset: RD PRO | Subset Sheets: 7 of 17 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Project No./Code</th> </tr> </thead> <tbody> <tr> <td>TCSP M555-029</td> </tr> <tr> <td style="text-align: center;">19365</td> </tr> <tr> <td>Sheet Number 75</td> </tr> </tbody> </table> | Project No./Code | TCSP M555-029 | 19365 | Sheet Number 75 |
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| Roadway Profile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designer: John Smith | Structure Numbers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailer: John Smith | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet Subset: RD PRO | Subset Sheets: 7 of 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project No./Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCSP M555-029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19365 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet Number 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


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 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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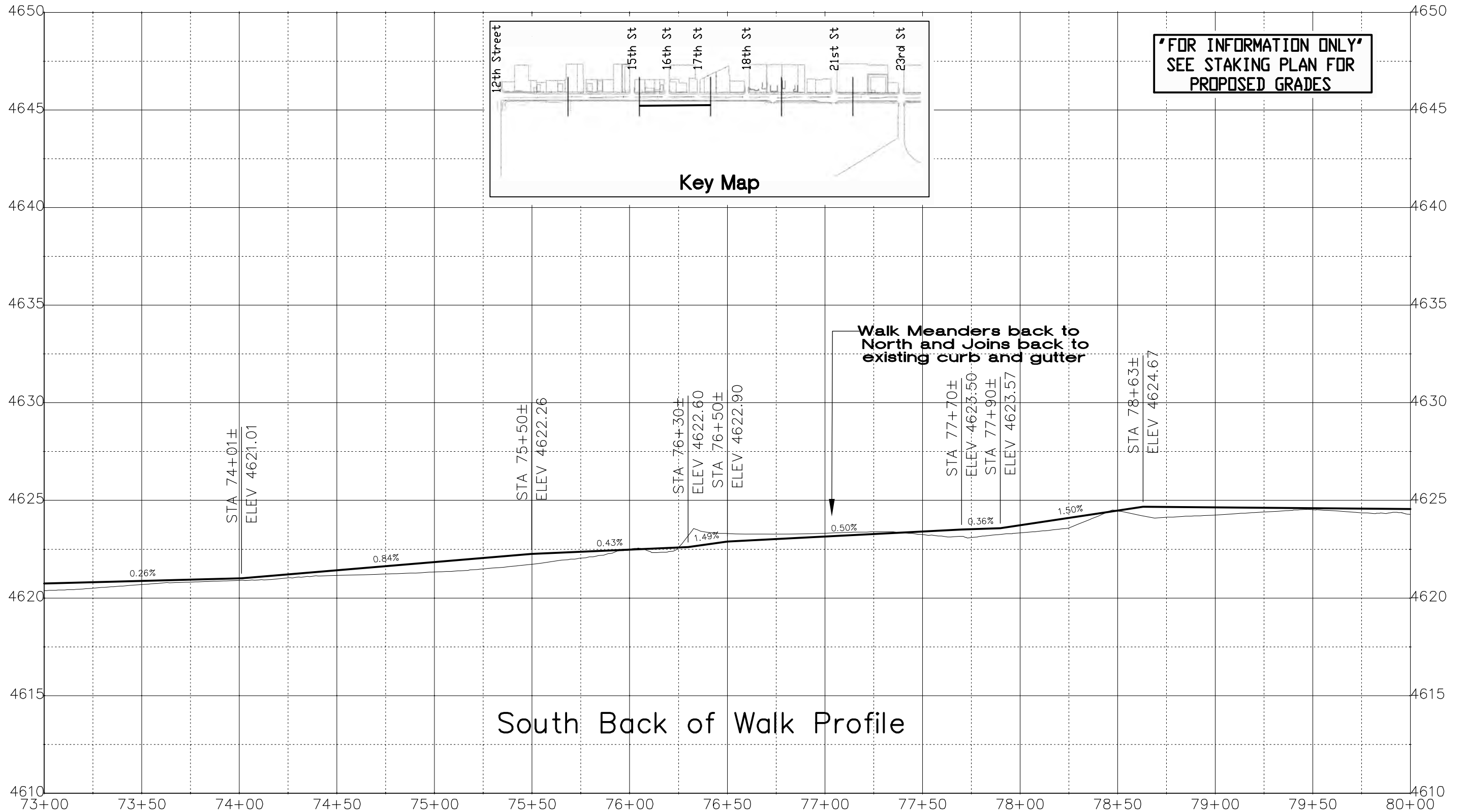
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| As Constructed |
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| No Revisions: |
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| Roadway Profile | | |
|----------------------|------------------------|--|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: RD PRO | Subset Sheets: 8 of 17 | |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 76 |

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South Back of Walk Profile

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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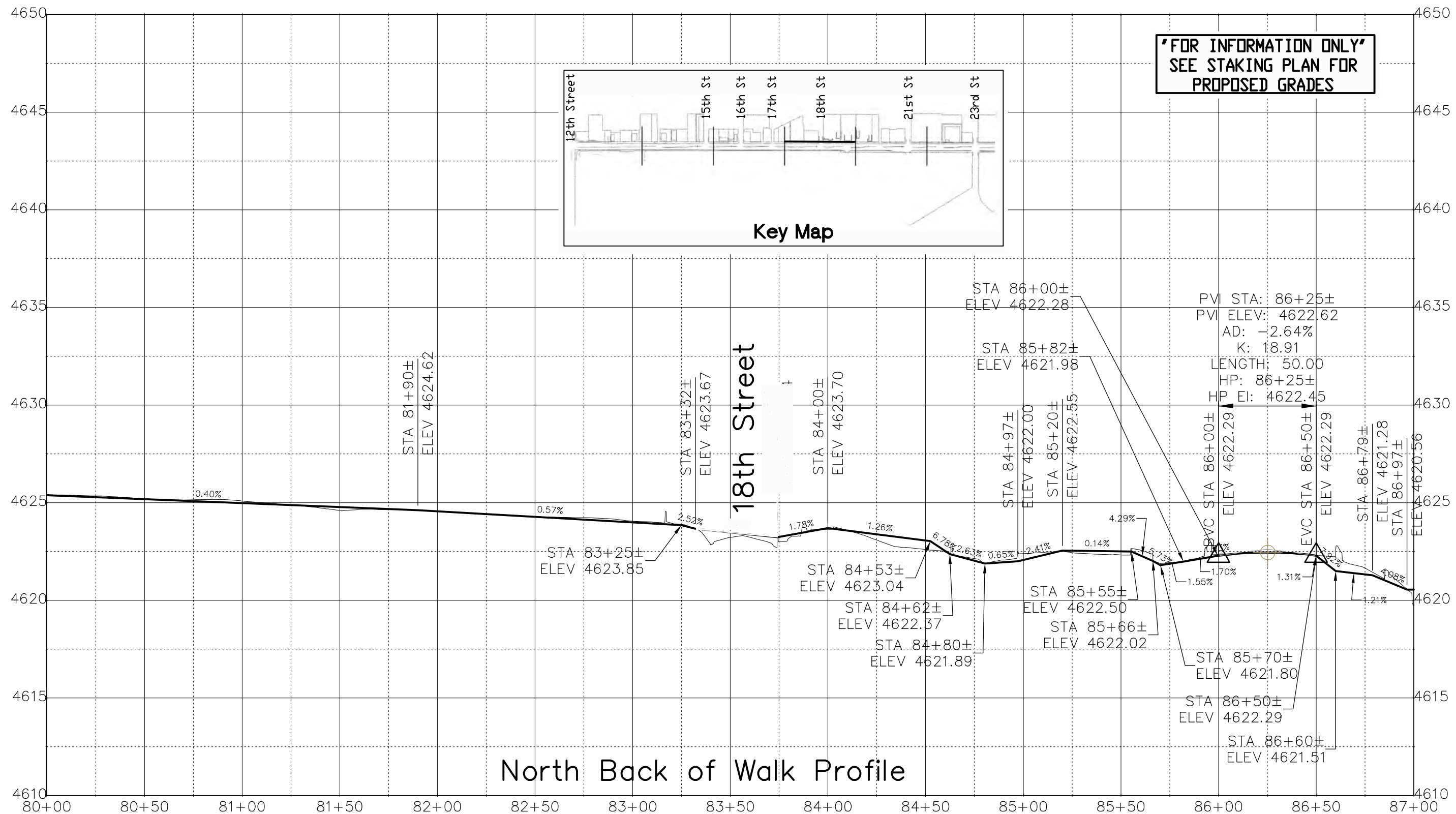
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 Region 3 RBB

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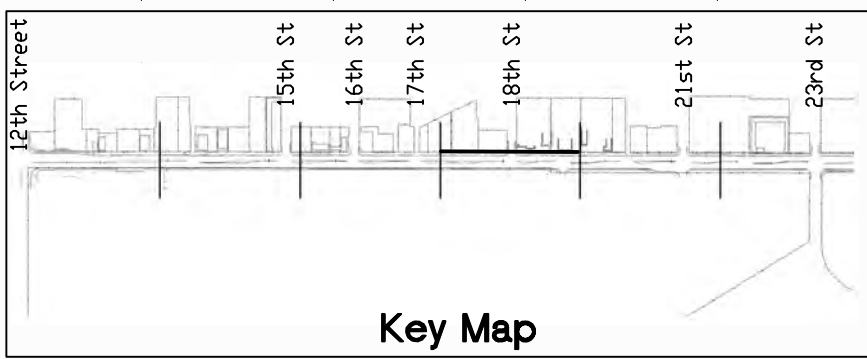
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| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: RD PRO | Subset Sheets: | 9 of 17 |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 77 |

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PROPOSED GRADES**



North Back of Walk Profile

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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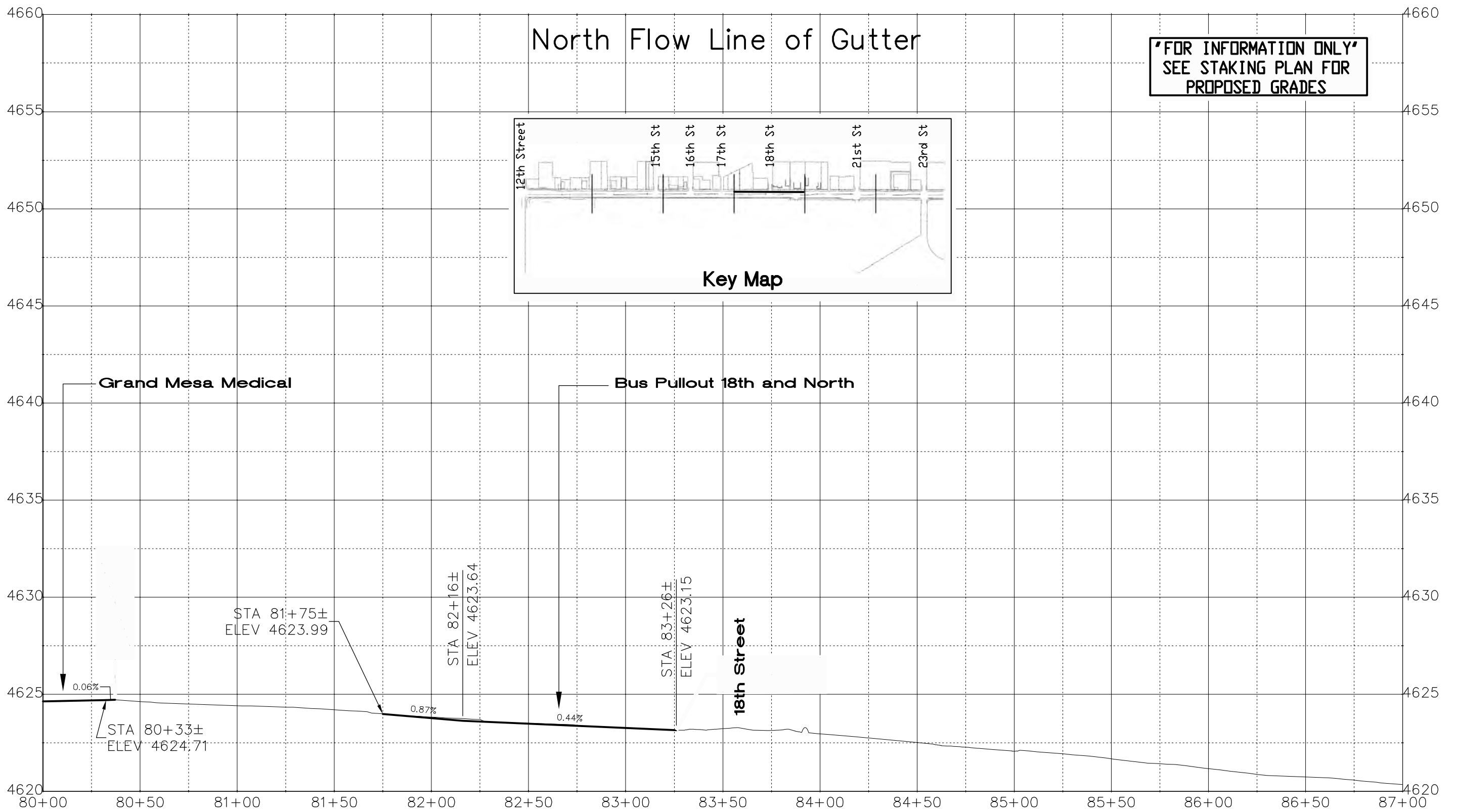
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 Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
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| Roadway Profile | |
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| Sheet Subset: RD PRO | Subset Sheets: 10 of 17 |

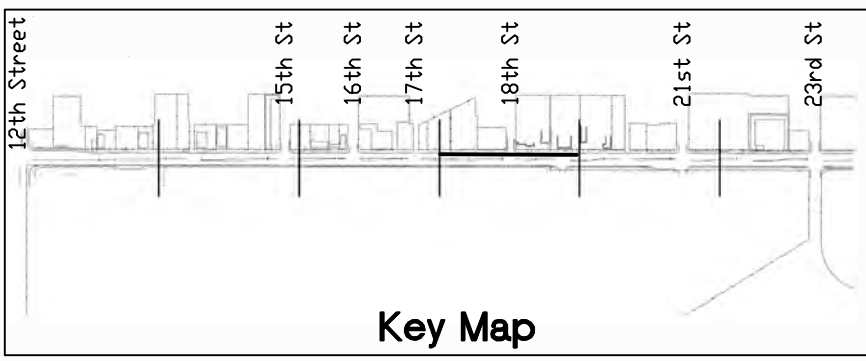
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| Sheet Number 78 |

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PROPOSED GRADES**

North Flow Line of Gutter



Key Map

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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Region 3 RBB

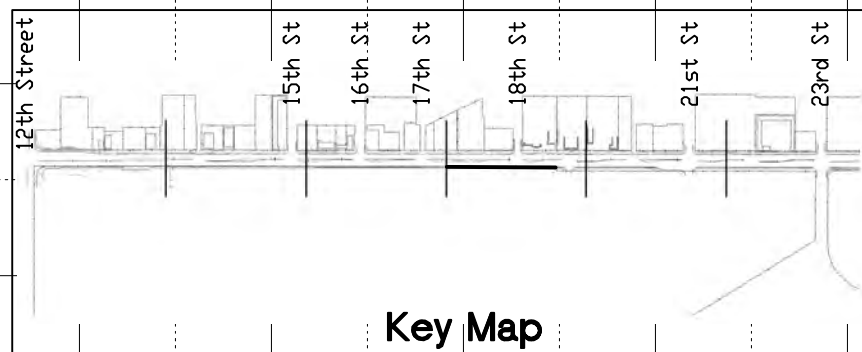
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| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: RD PRO | Subset Sheets: 11 of 17 | |

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| Project No./Code |
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| 19365 |
| Sheet Number 79 |

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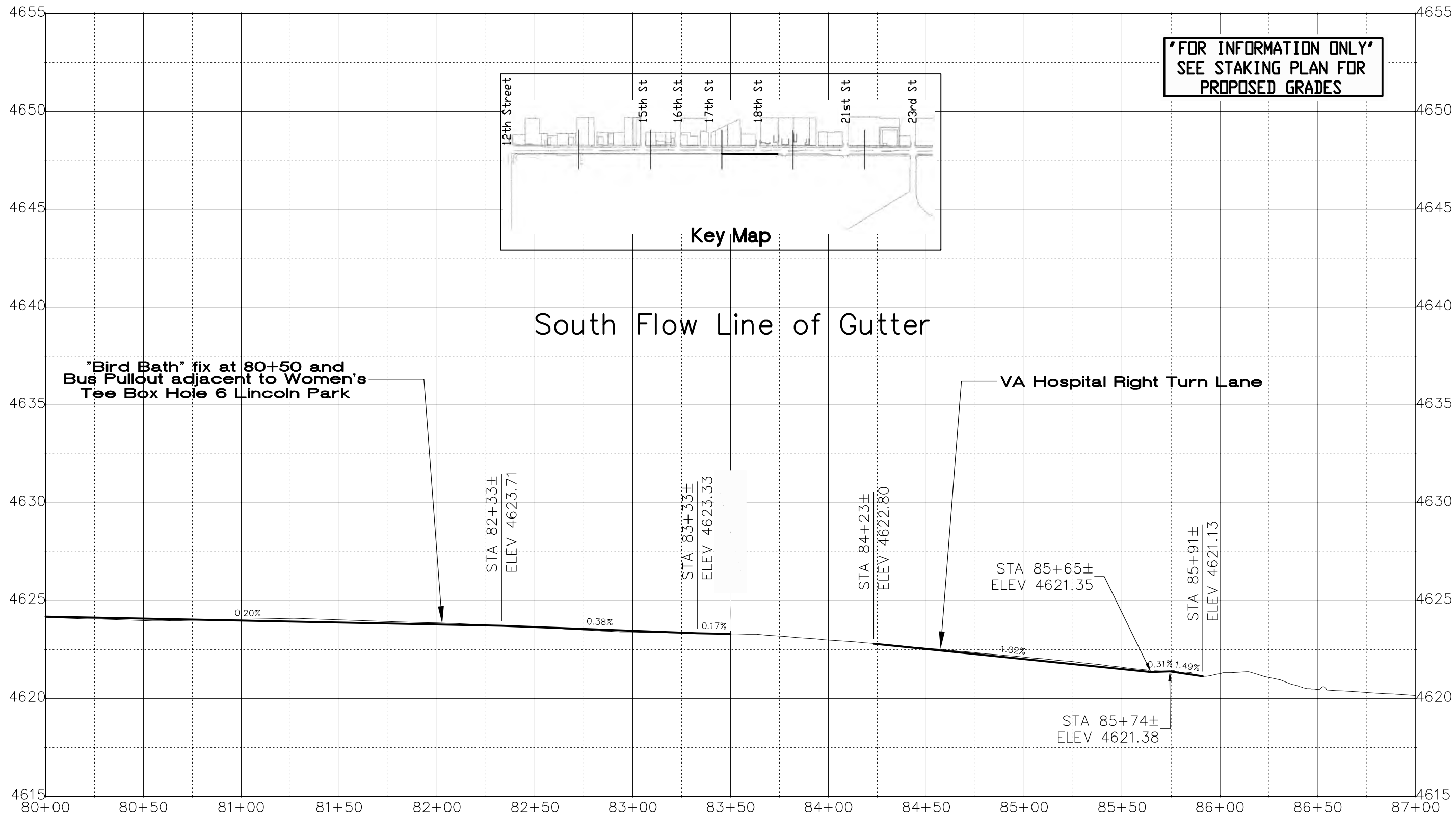
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PROPOSED GRADES**



South Flow Line of Gutter

**"Bird Bath" fix at 80+50 and
Bus Pullout adjacent to Women's
Tee Box Hole 6 Lincoln Park**


VA Hospital Right Turn Lane



Print Date: AT LEFT
File Name: AT LEFT
Horiz. Scale: 1:50 Vert. Scale: NA
Unit Information: City of GJ Unit Leader Initials: DPJ



| Sheet Revisions | | |
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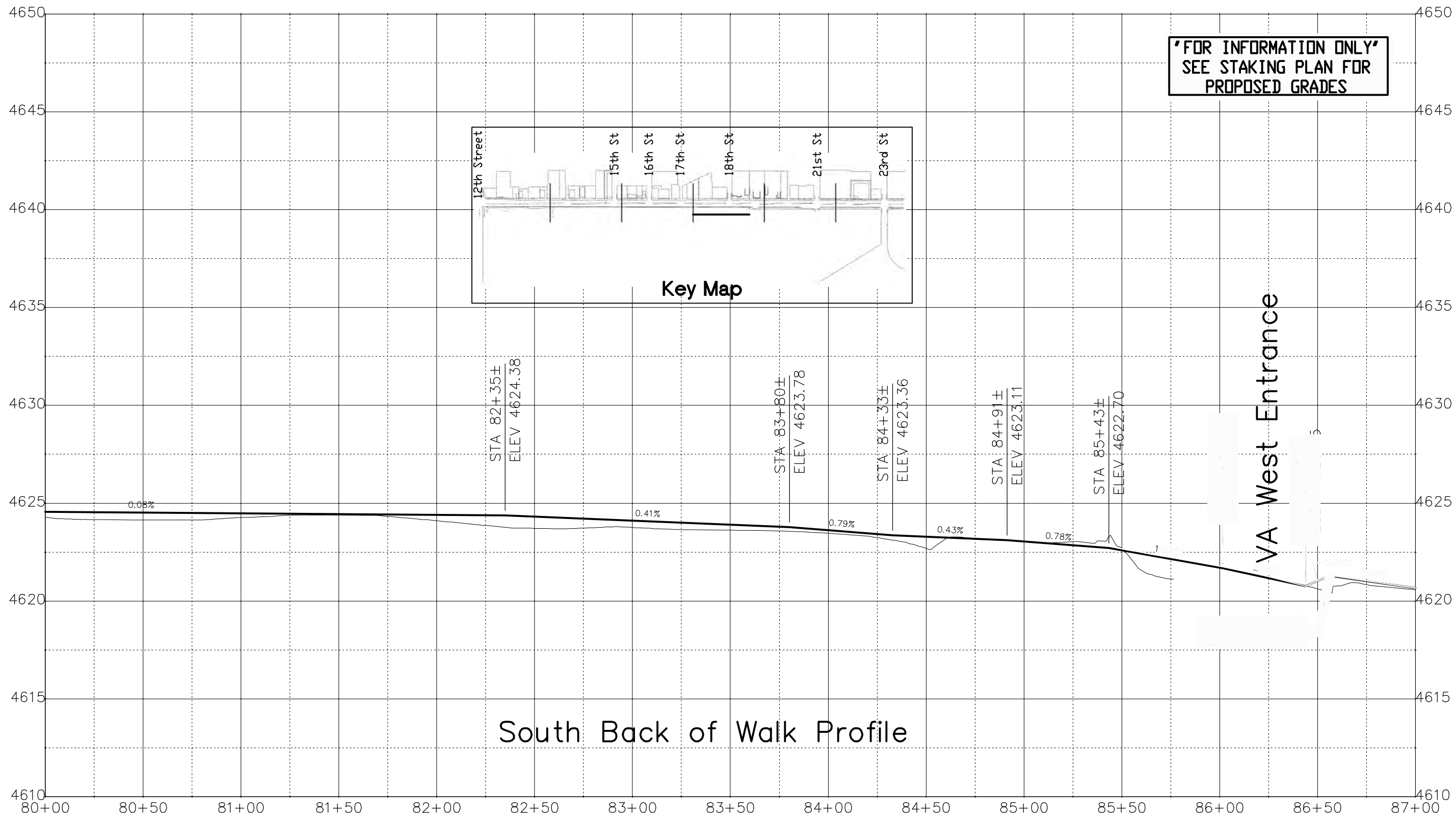
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| No Revisions: |
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| Roadway Profile | | |
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| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: RD PRO | Subset Sheets: 12 of 17 | |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 80 |

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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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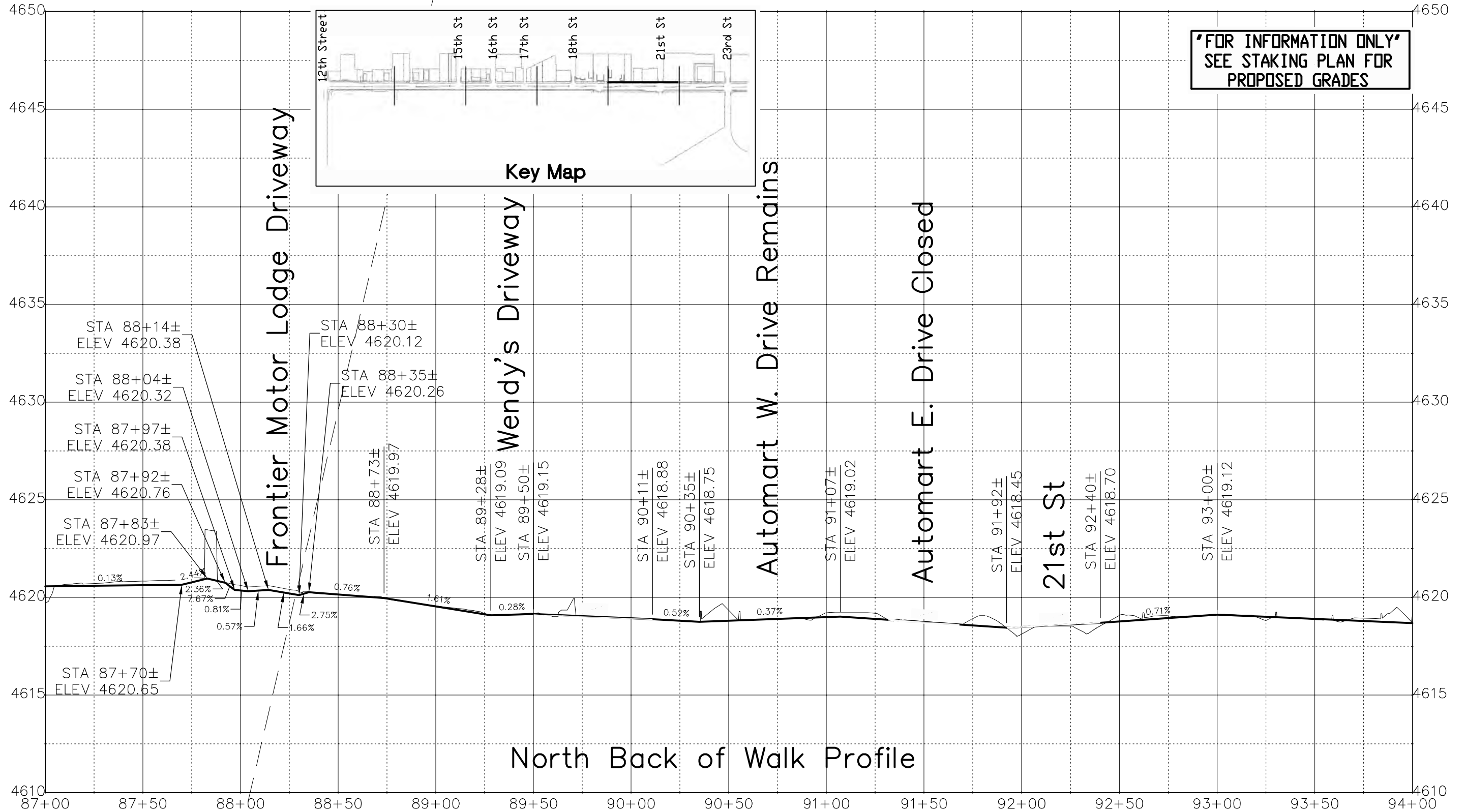
Region 3 RBB

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| Roadway Profile | |
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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: RD PRO | Subset Sheets: 13 of 17 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 81 |


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 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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 Region 3 RBB

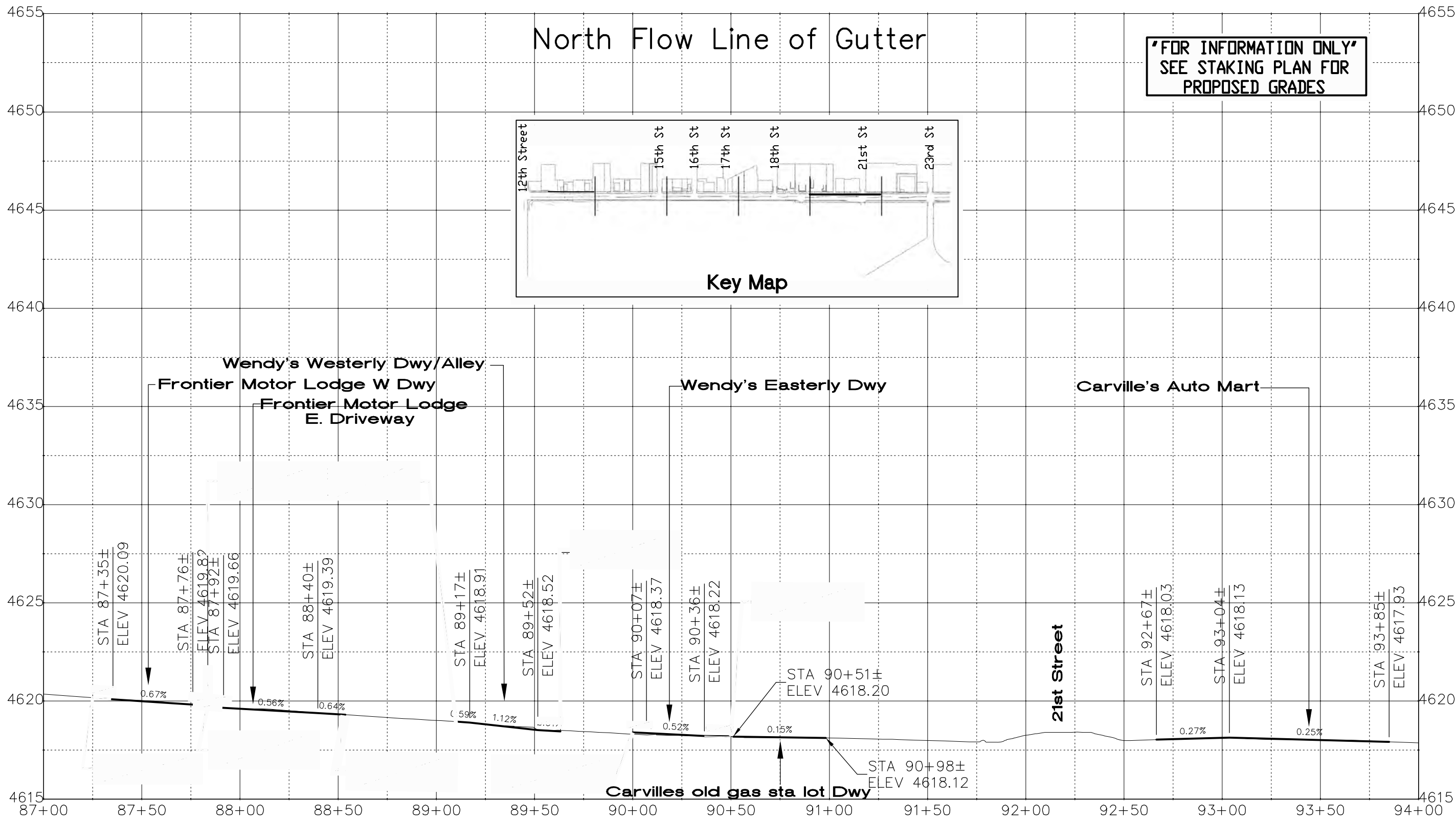
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Roadway Profile

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| Detailer: John Smith | |
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Project No./Code
 TCSP M555-029
 19365
 Sheet Number **82**

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 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation

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Phone: 970-683-6351 FAX: 970-683-6369

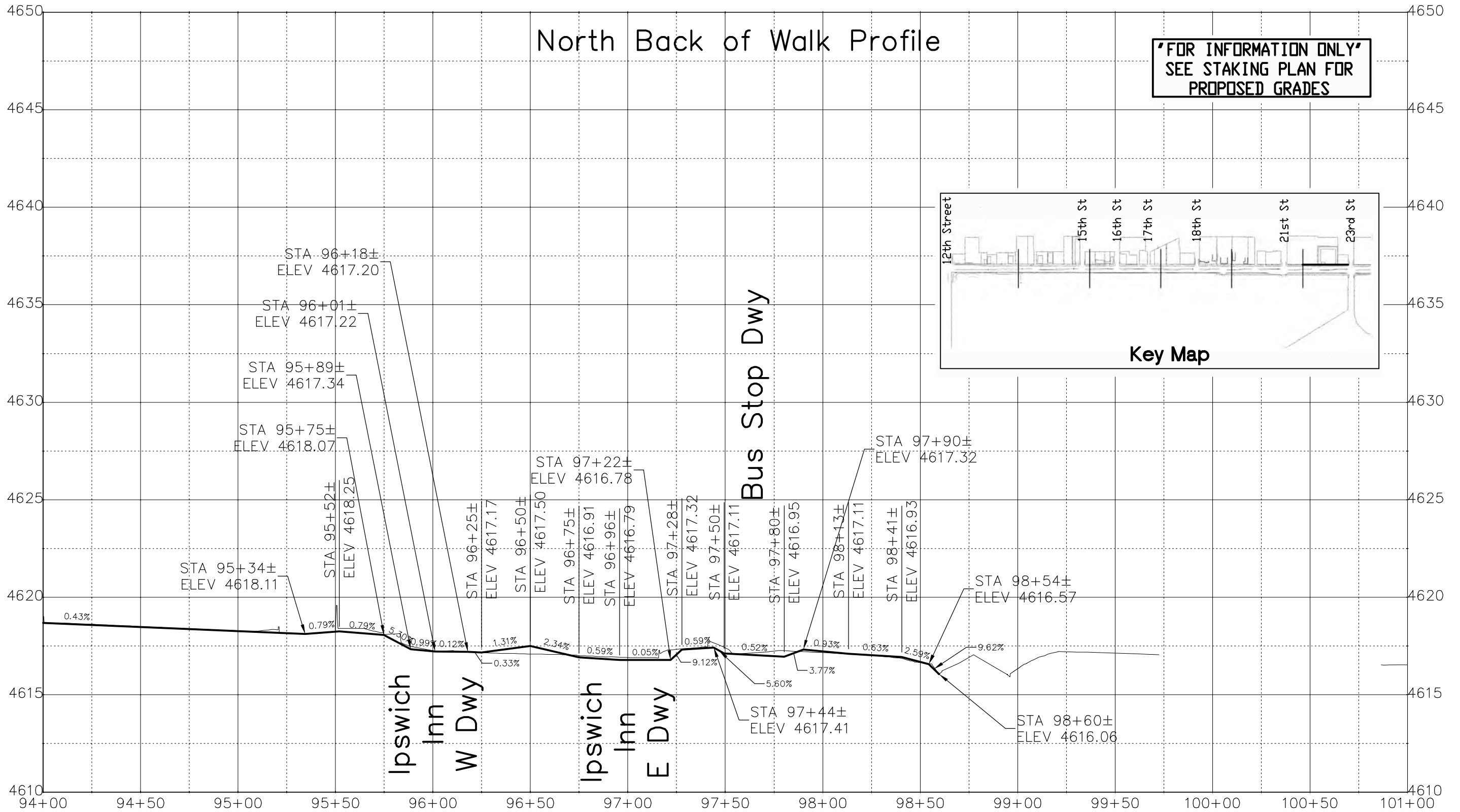
Region 3 RBB

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| Roadway Profile | |
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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: RD PRO | Subset Sheets: 15 of 17 |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 83 |


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 Unit Information: City of GJ Unit Leader Initials: DPJ

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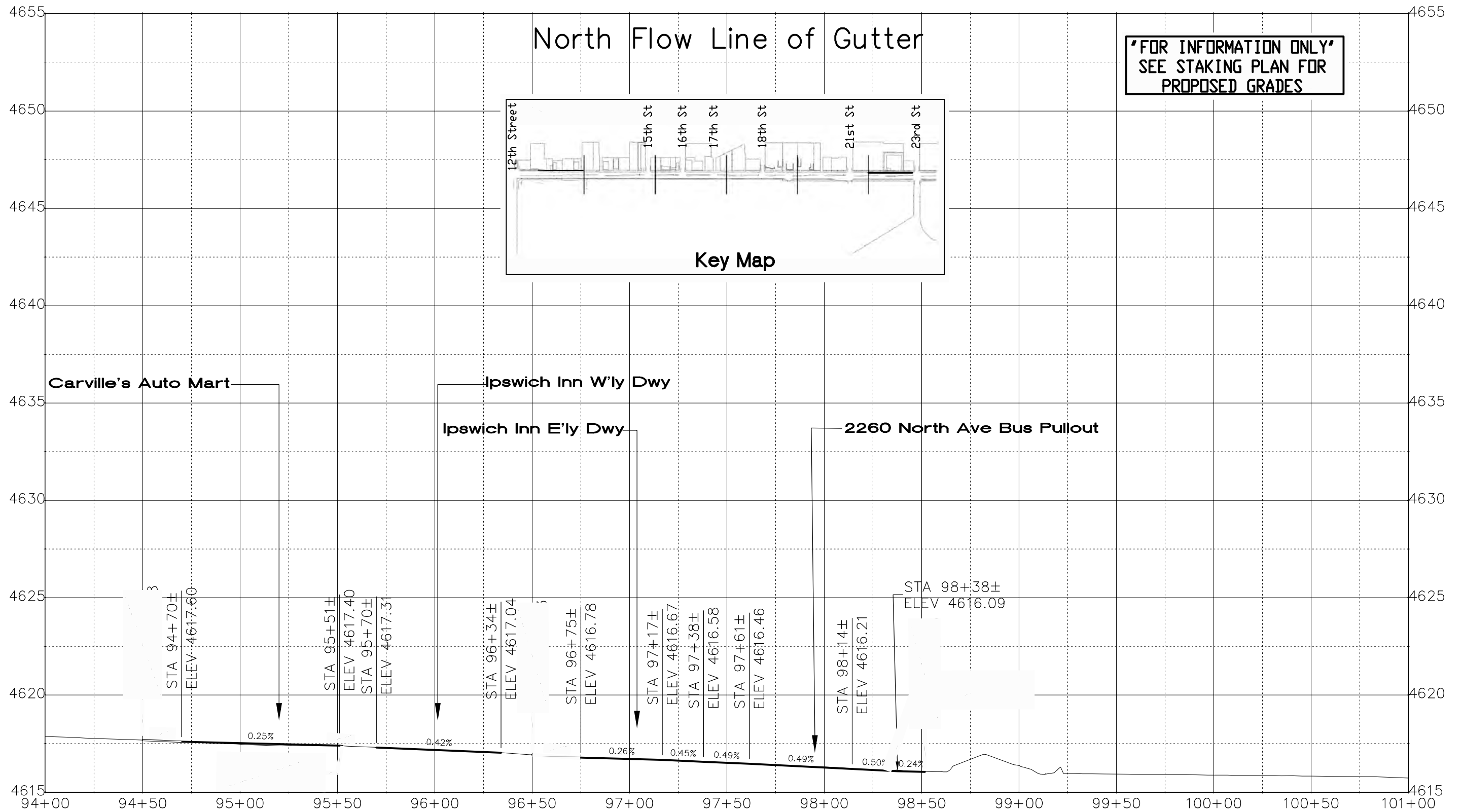
Colorado Department of Transportation

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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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Roadway Profile
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset: RD PRO
 Structure Numbers
 Subset Sheets: 16 of 17

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **84**


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 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation

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 Region 3 RBB

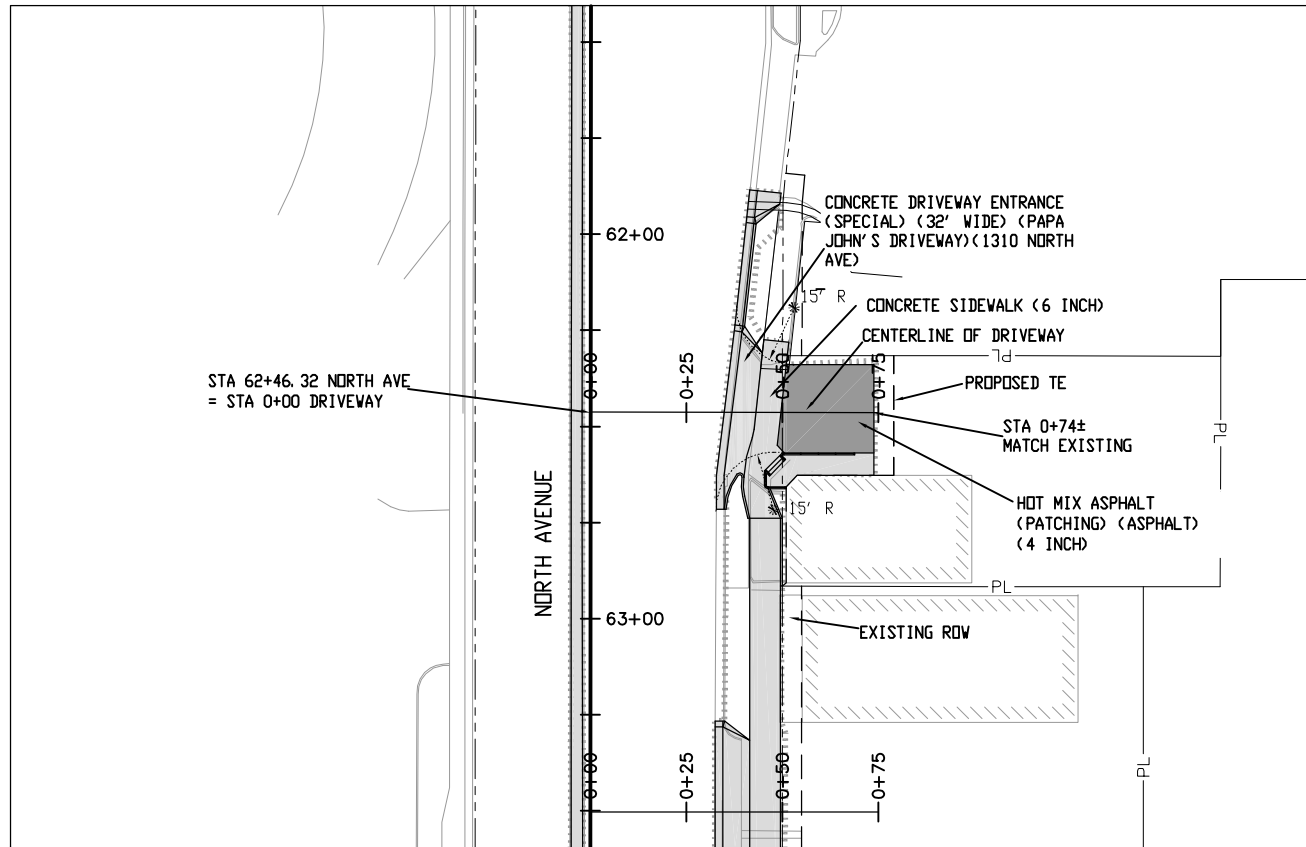
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Roadway Profile

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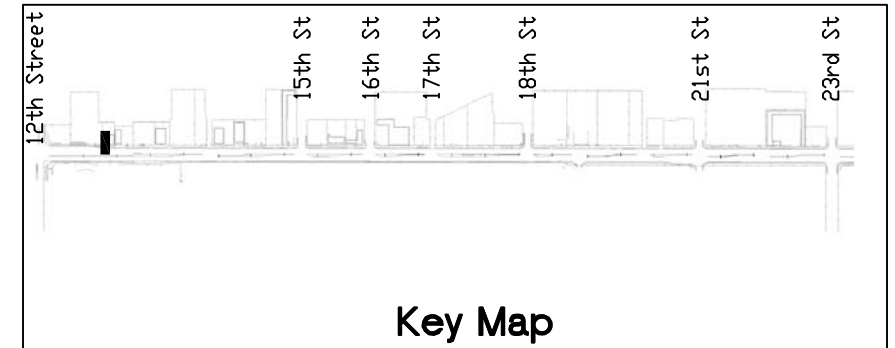
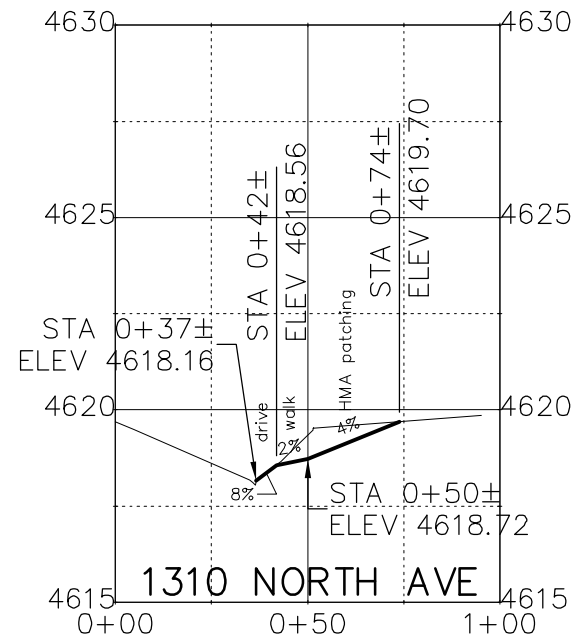
Project No./Code
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 19365
 Sheet Number **85**

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PLAN




Key Map

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 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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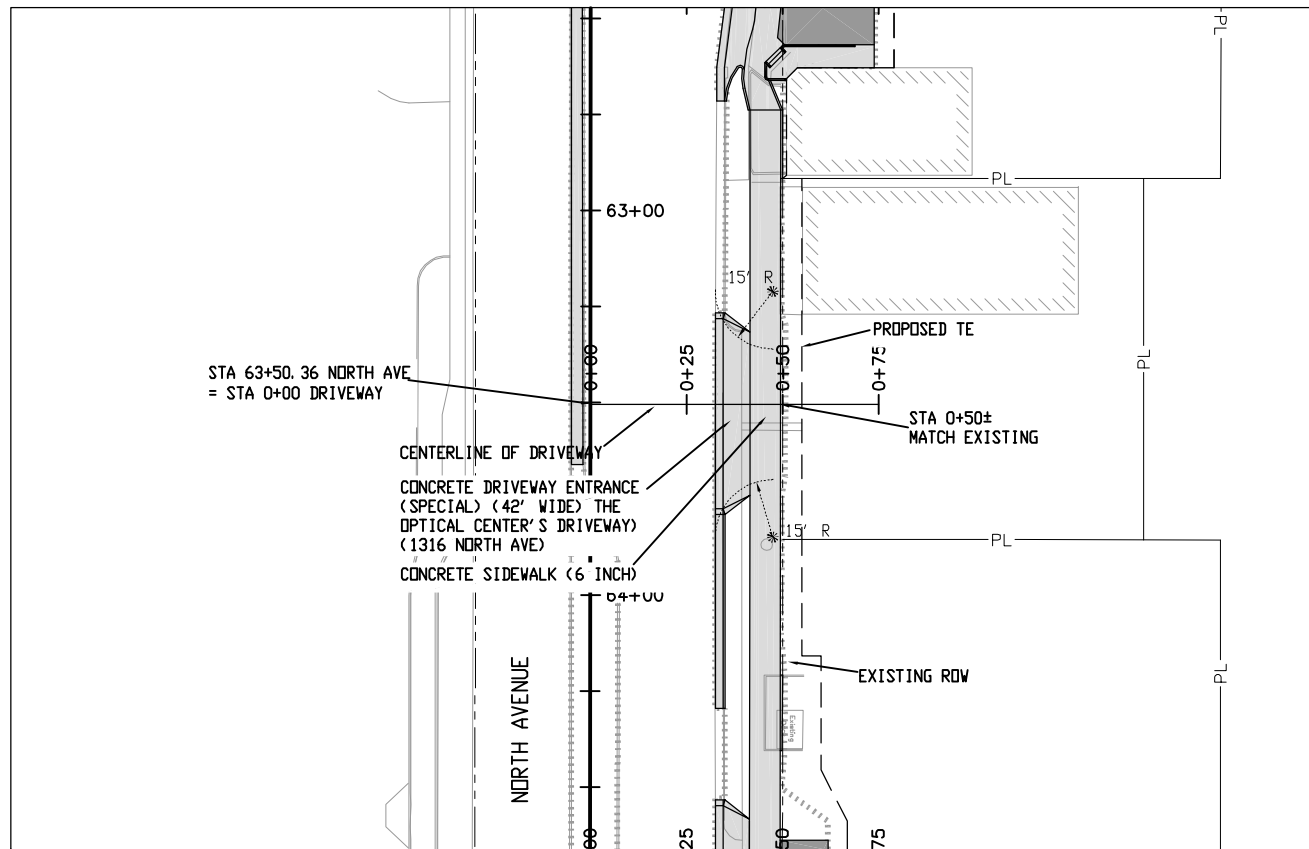
Colorado Department of Transportation

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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 1 of 42

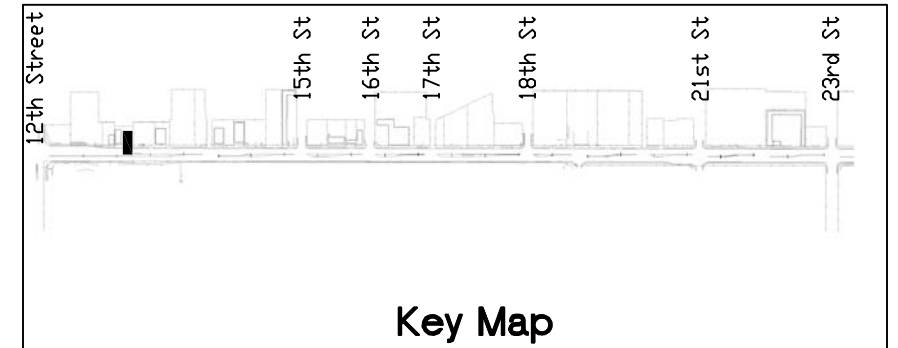
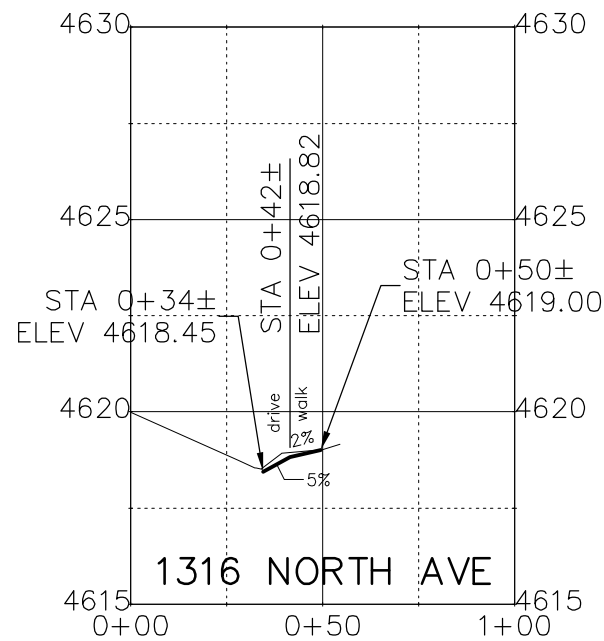
Project No./Code
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 19365
 Sheet Number **86**

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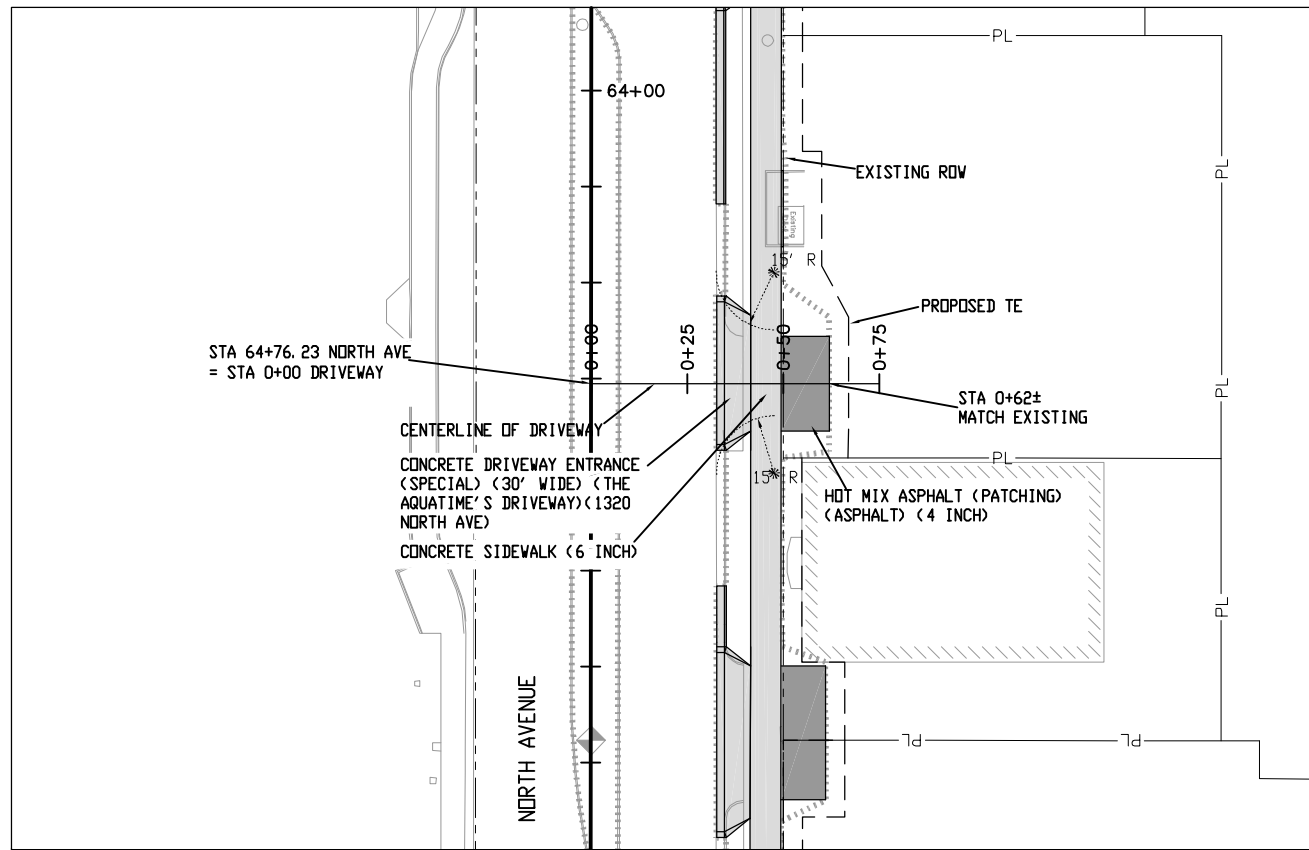
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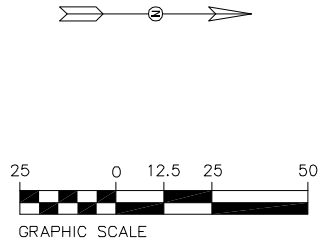
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| Print Date: AT LEFT File Name: AT LEFT Horiz. Scale: 1:50 Vert. Scale: NA Unit Information: City of GJ Unit Leader Initials: DPJ | 0000 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 15%;">Date:</th> <th style="width: 65%;">Comments</th> <th style="width: 20%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 100%;">As Constructed</th> </tr> <tr> <td>No Revisions:</td> </tr> <tr> <td>Revised:</td> </tr> <tr> <td>Void:</td> </tr> </table> | As Constructed | No Revisions: | Revised: | Void: | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Driveway Plans and Profiles</th> </tr> <tr> <td>Designer: John Smith</td> <td>Structure Numbers</td> </tr> <tr> <td>Detailer: John Smith</td> <td> </td> </tr> <tr> <td>Sheet Subset: dr pln pro</td> <td>Subset Sheets: 2 of 42</td> </tr> </table> | Driveway Plans and Profiles | | Designer: John Smith | Structure Numbers | Detailer: John Smith | | Sheet Subset: dr pln pro | Subset Sheets: 2 of 42 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Project No./Code</th> </tr> <tr> <td colspan="2" style="text-align: center;">TCSP M555-029</td> </tr> <tr> <td colspan="2" style="text-align: center;">19365</td> </tr> <tr> <td style="width: 80%;">Sheet Number</td> <td style="text-align: right; font-weight: bold;">87</td> </tr> </table> | Project No./Code | | TCSP M555-029 | | 19365 | | Sheet Number | 87 |
|--|------------------------|--|-----------------|--|--|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|----------------|---------------|----------|-------|--|-----------------------------|--|----------------------|-------------------|----------------------|--|--------------------------|------------------------|---|------------------|--|---------------|--|-------|--|--------------|----|
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| Driveway Plans and Profiles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designer: John Smith | Structure Numbers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailer: John Smith | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet Subset: dr pln pro | Subset Sheets: 2 of 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project No./Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCSP M555-029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19365 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet Number | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

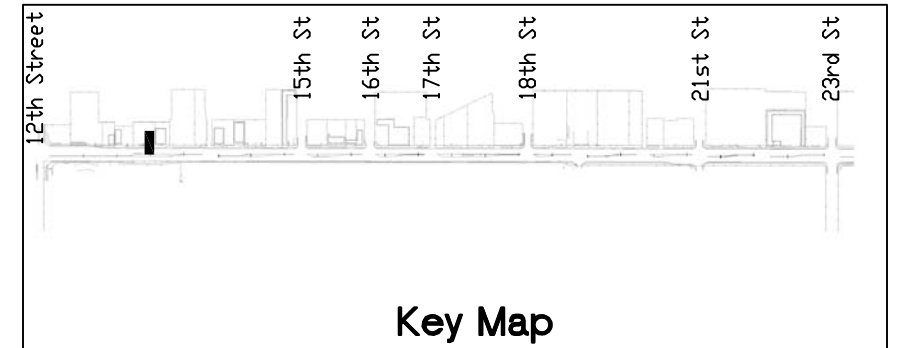
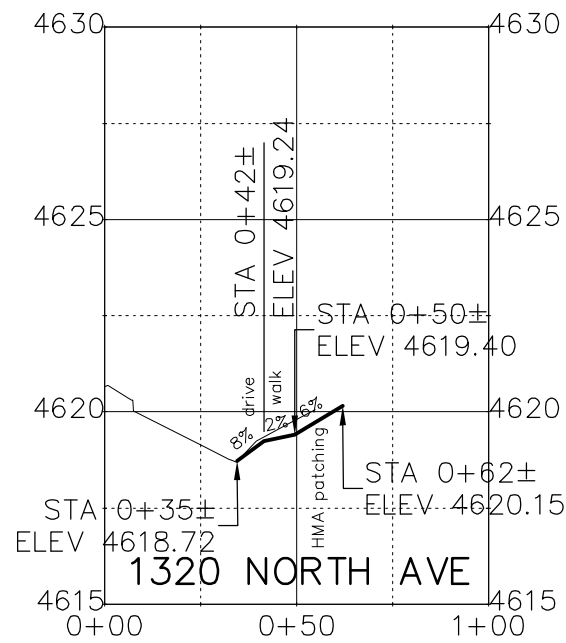
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PLAN



Key Map

Print Date: AT LEFT
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 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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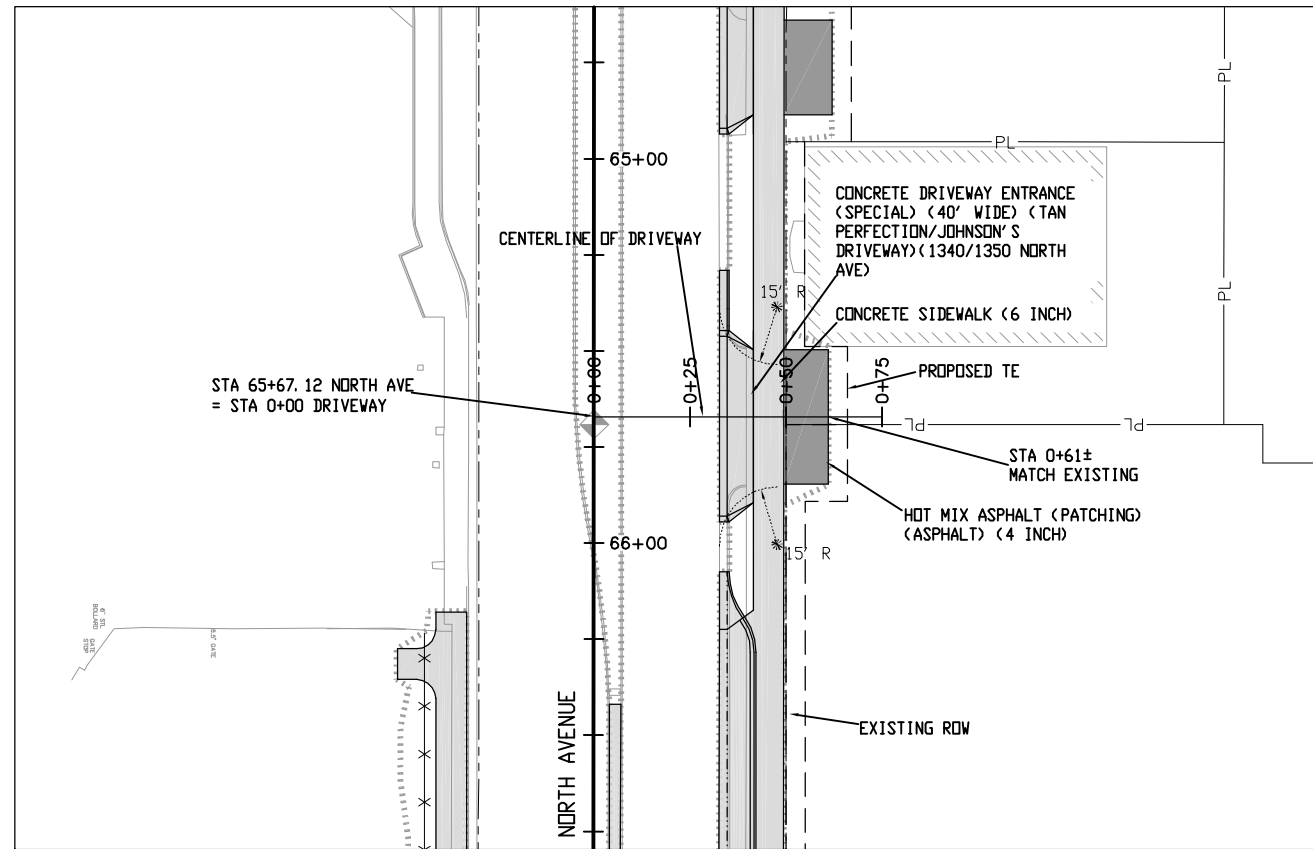
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 Region 3 RBB

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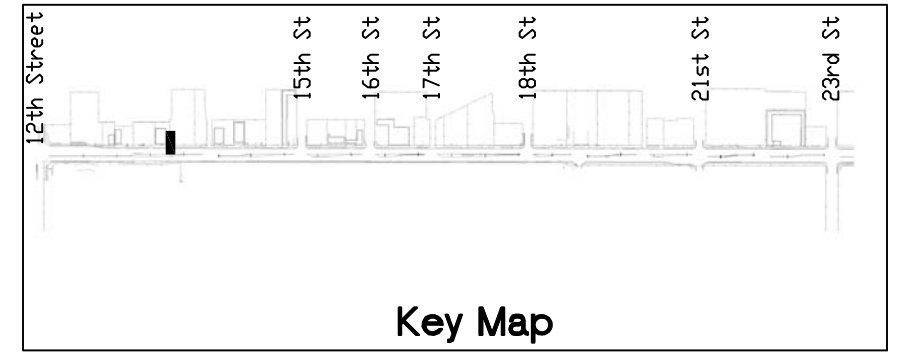
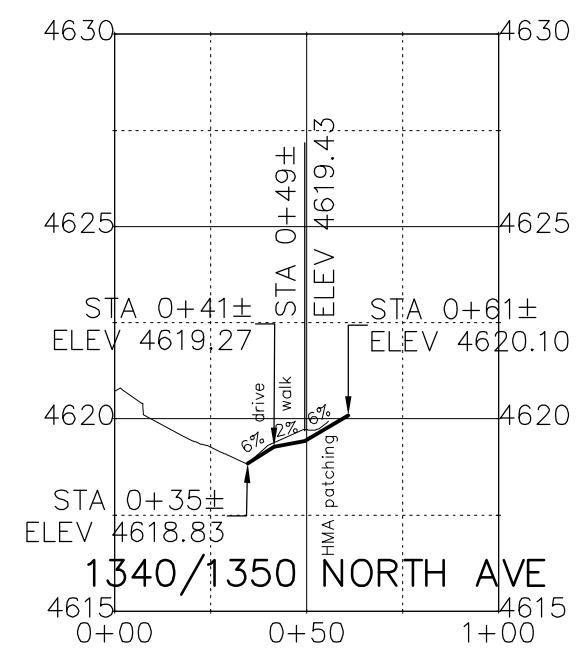
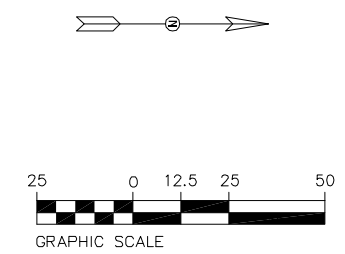
Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 3 of 42

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **88**

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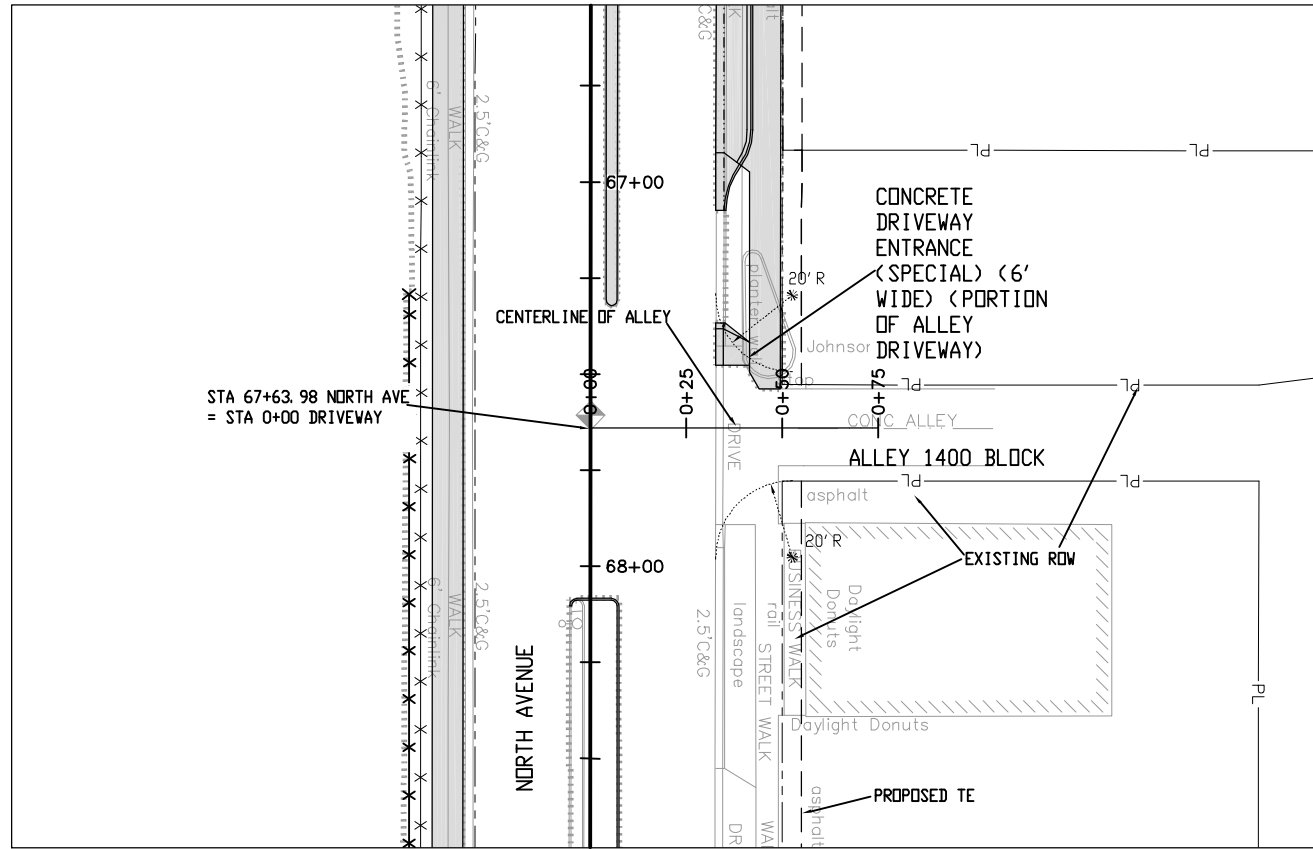


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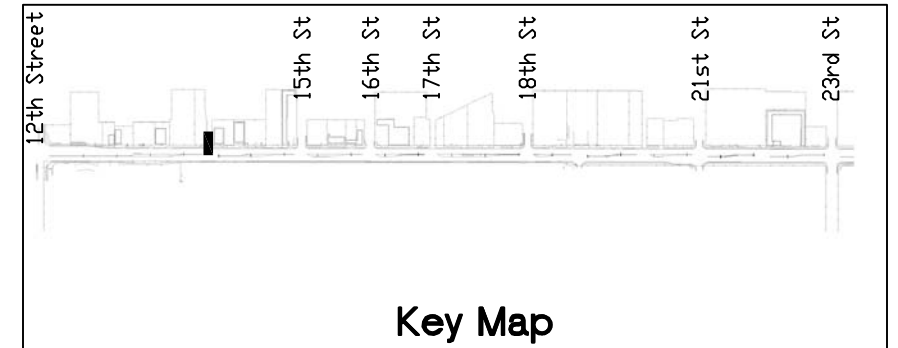
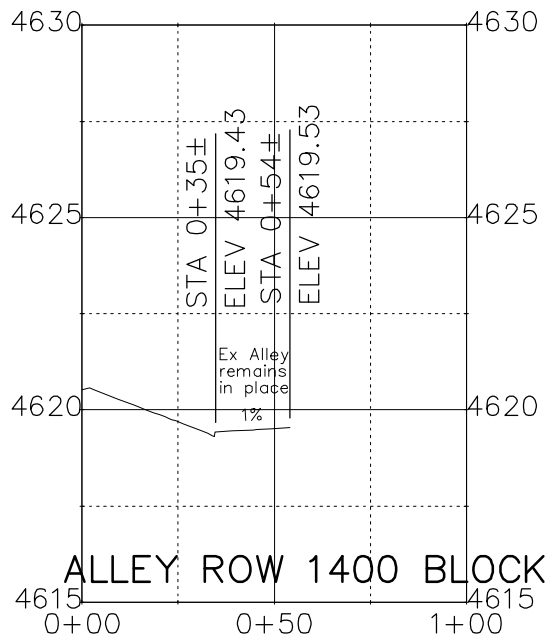
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| File Name: AT LEFT | | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: dr pln pro | | | TCSP M555-029 | | | |
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| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | Void: | | | | | Subset Sheets: 4 of 42 | | Sheet Number 89 | |
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Key Map

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| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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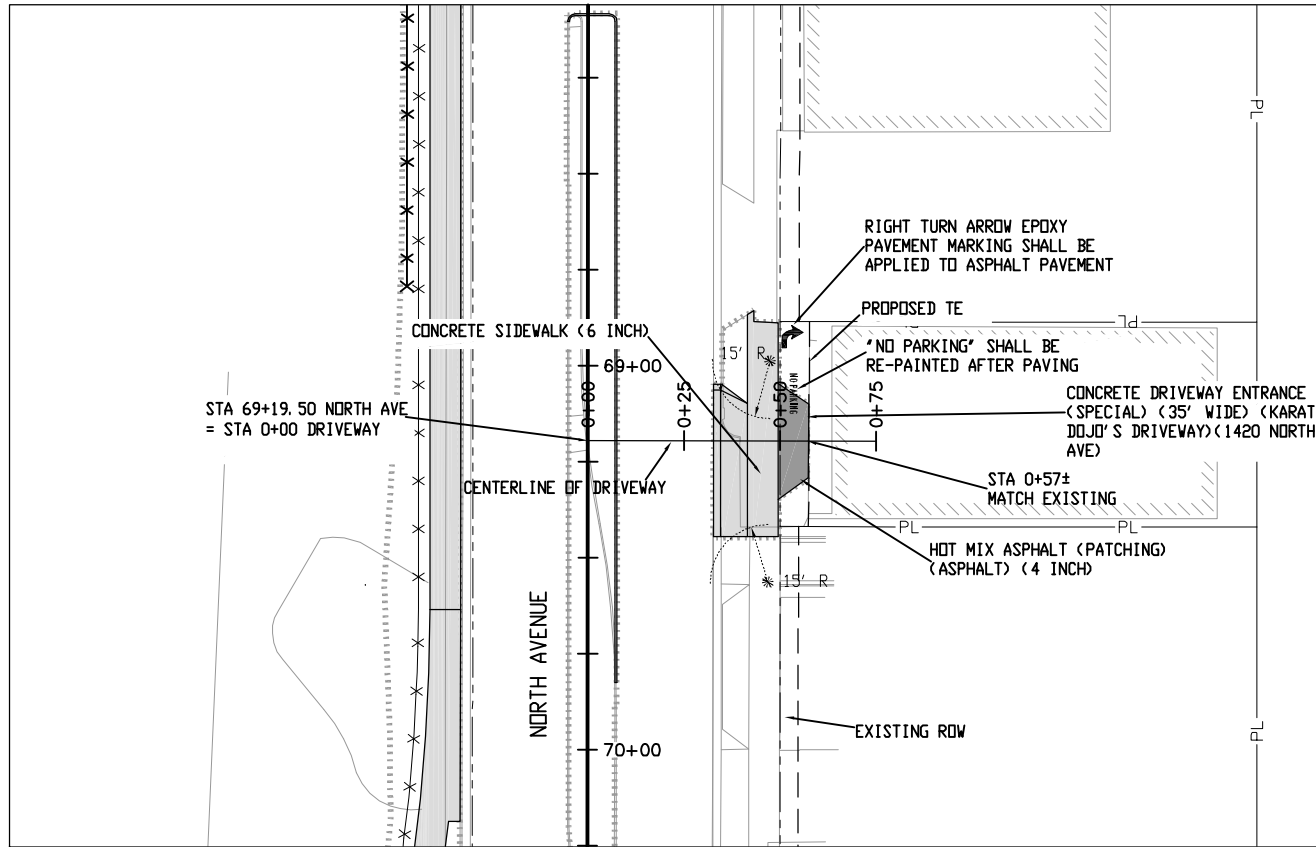
Region 3 RBB

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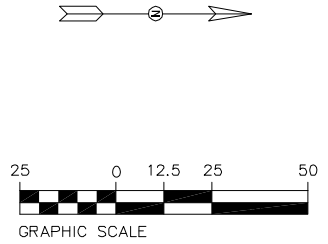
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 90 |

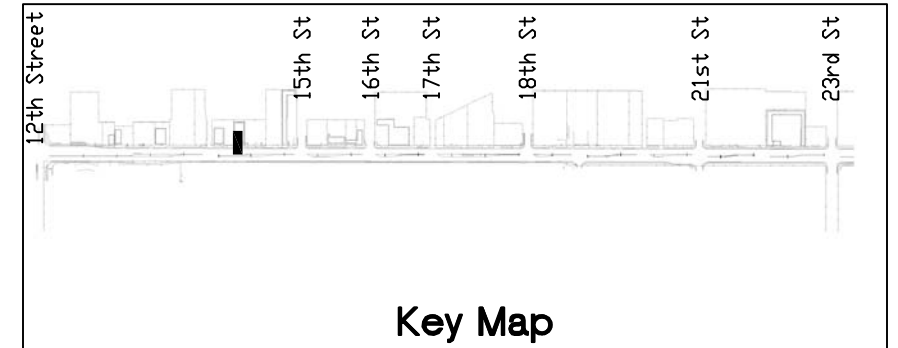
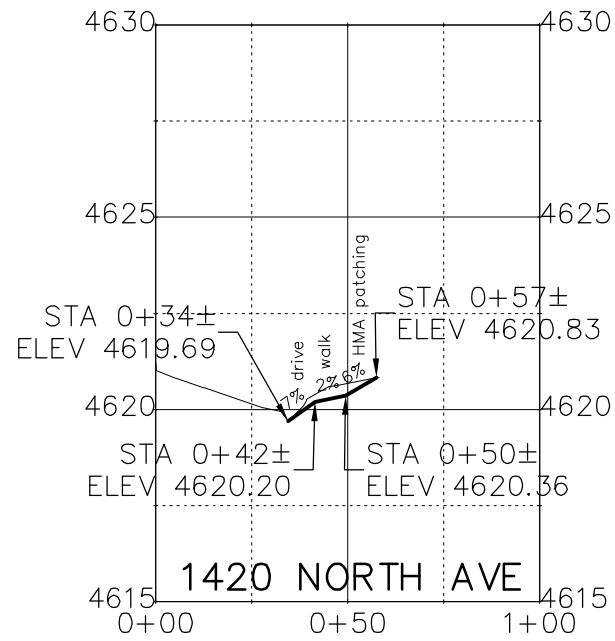
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PLAN




Key Map

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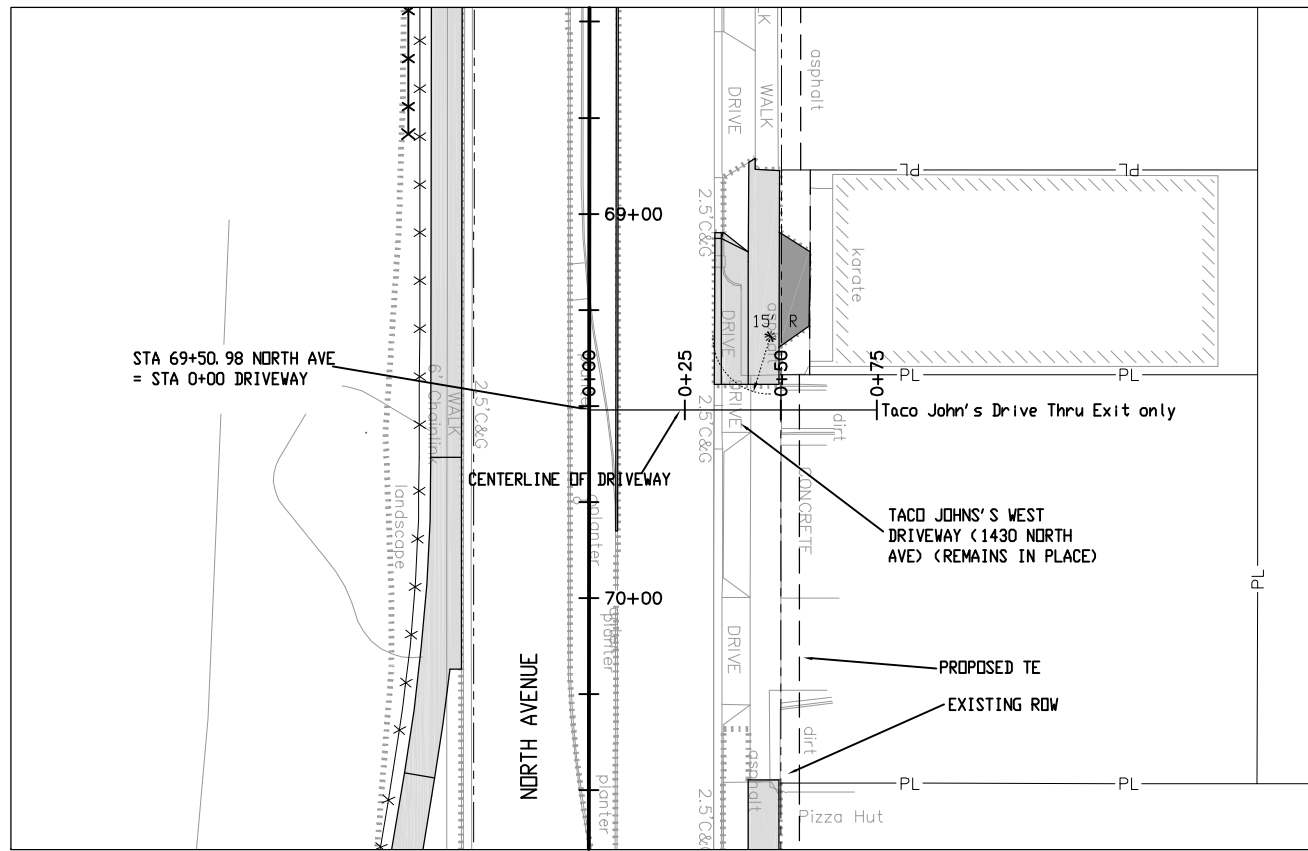
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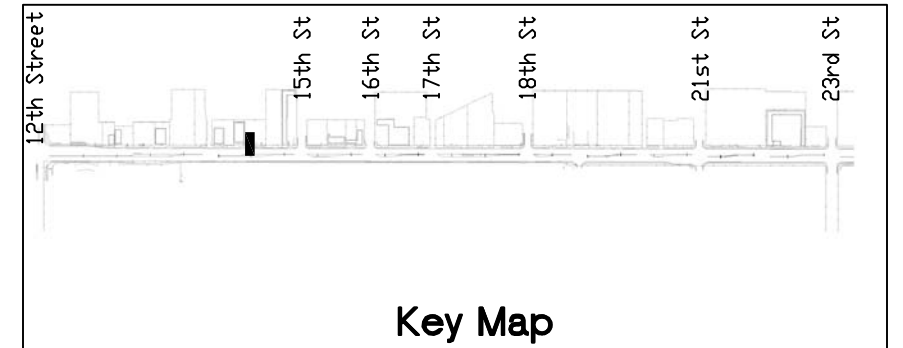
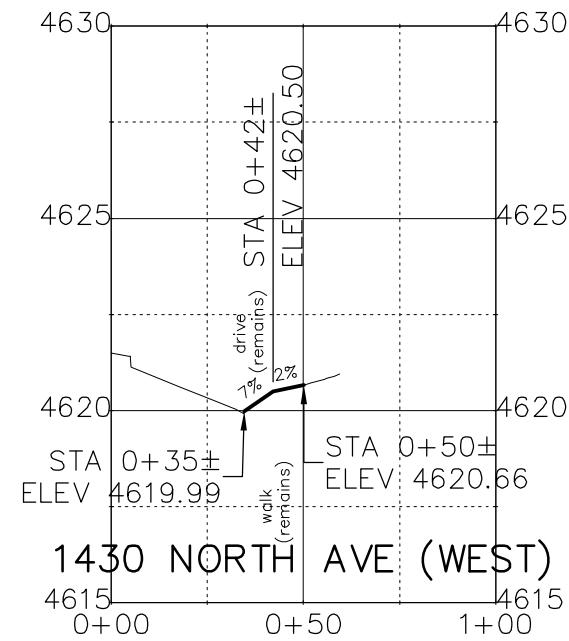
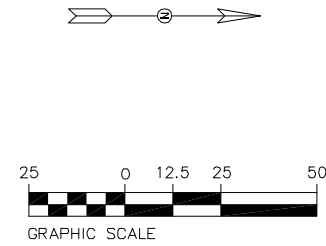
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| Detailer: John Smith | |
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 92 |

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 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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Region 3 RBB

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Driveway Plans and Profiles

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| Detailer: John Smith | |
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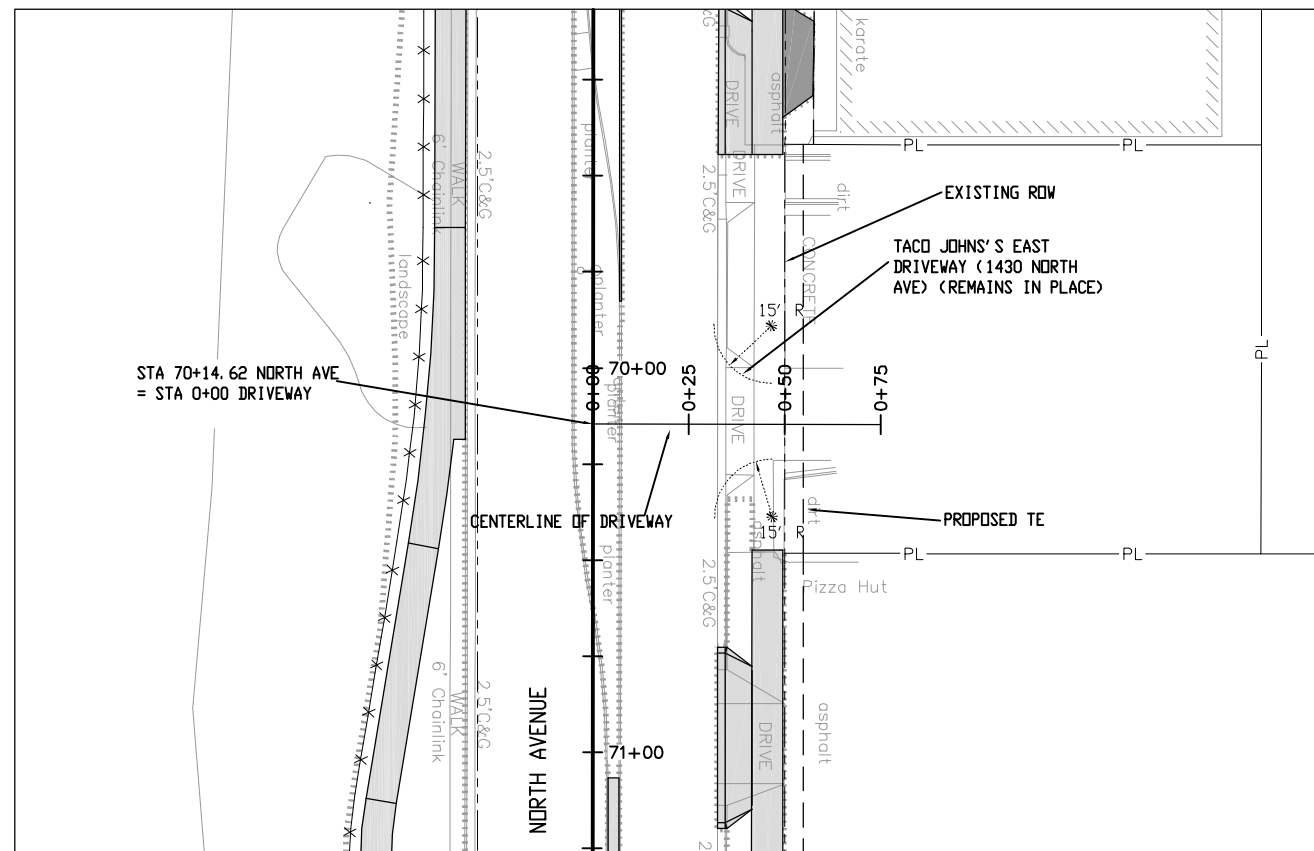
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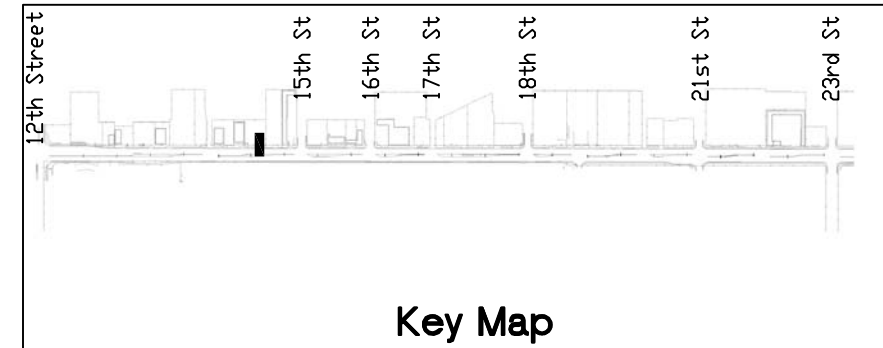
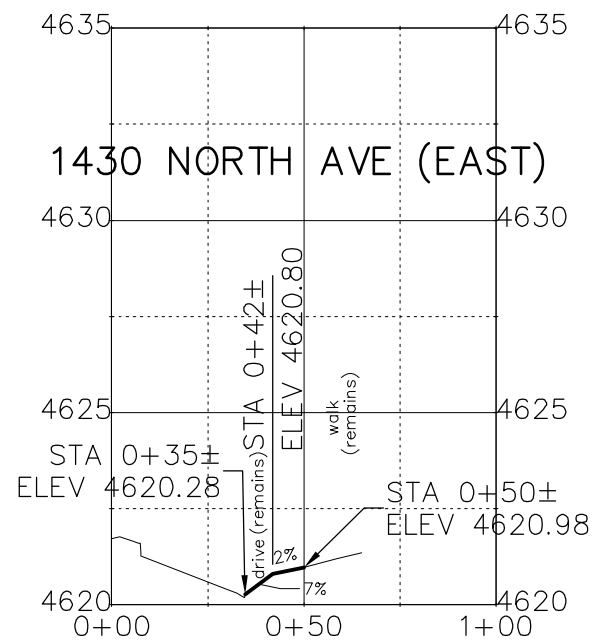
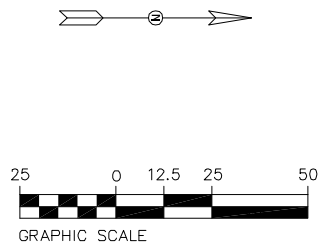
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Sheet Number **93**

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation

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Region 3 RBB

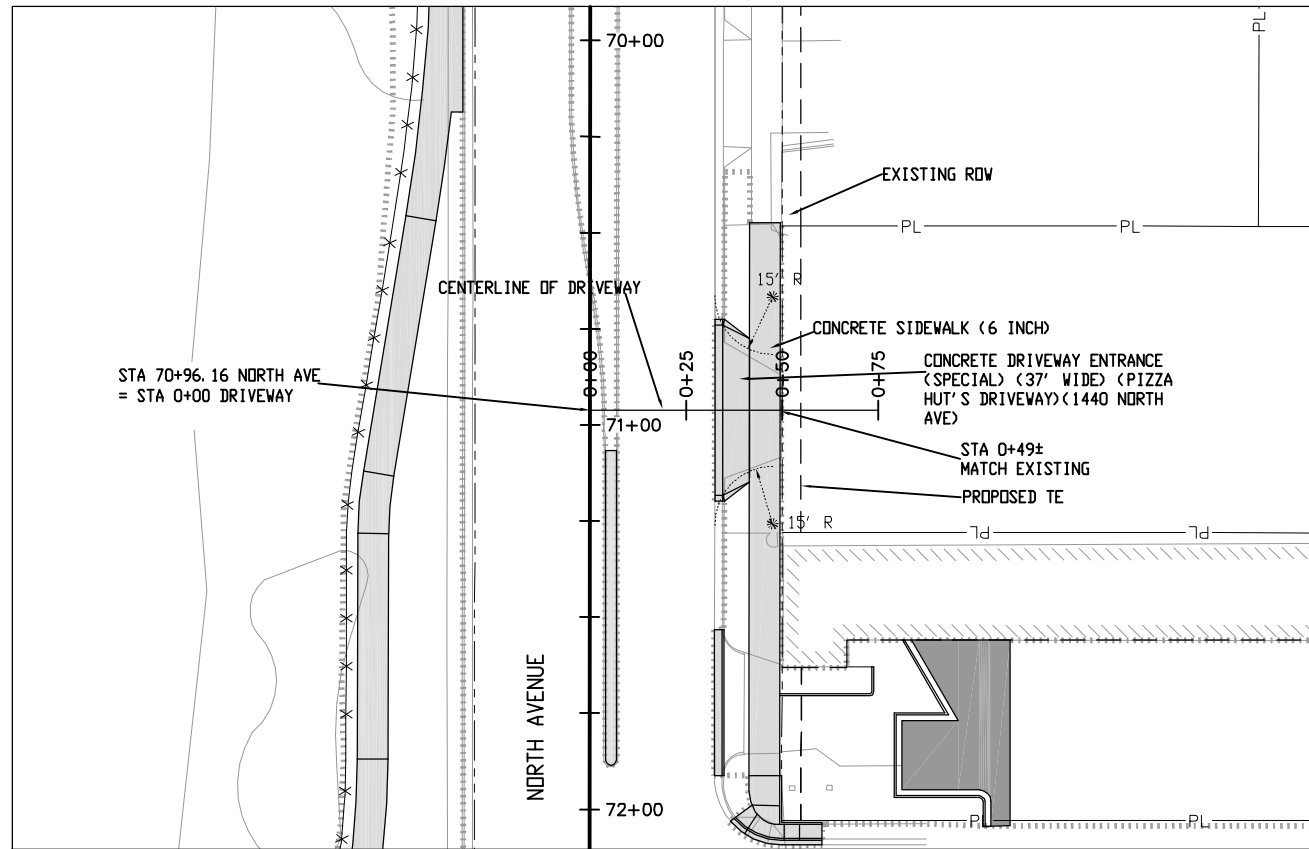
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Driveway Plans and Profiles

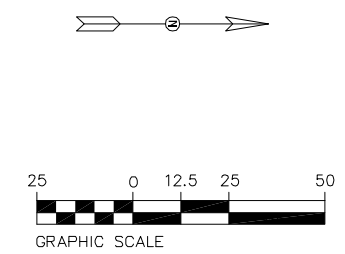
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Project No./Code
 TCSP M555-029
 19365
 Sheet Number **94**

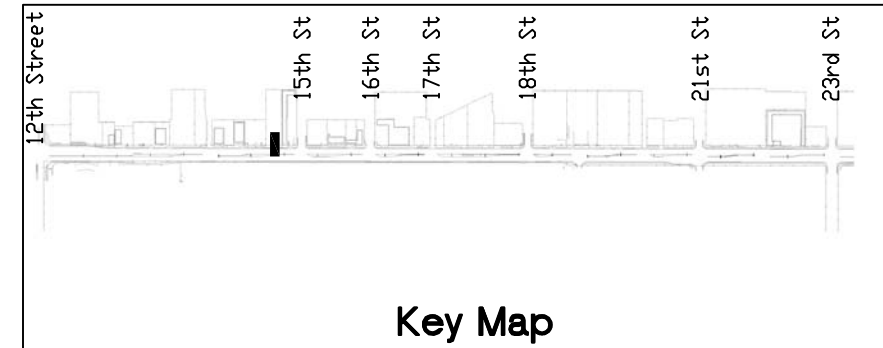
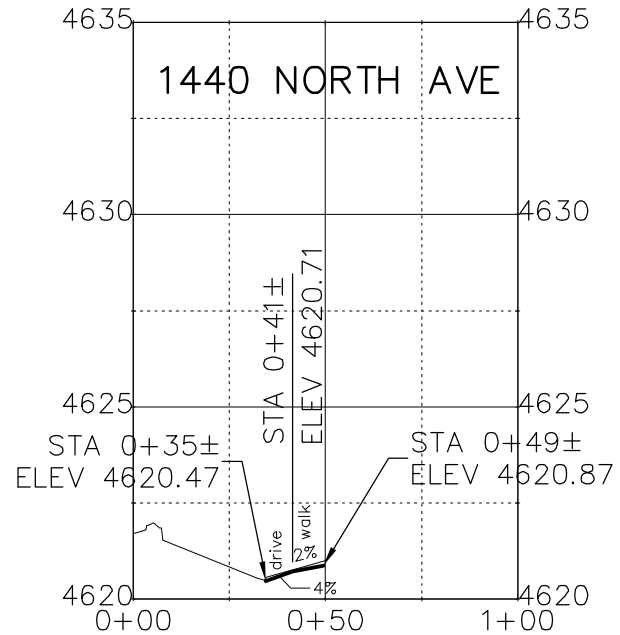
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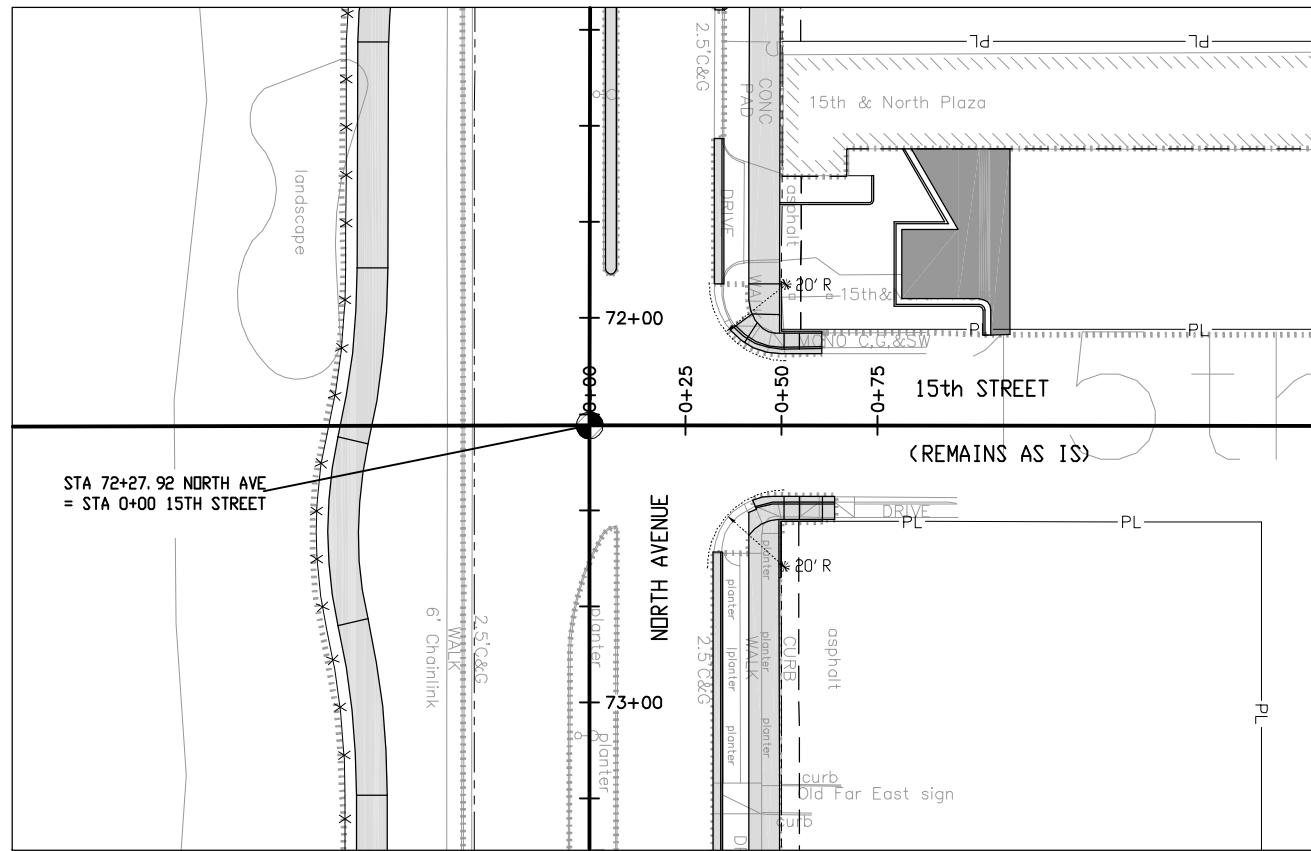
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Key Map

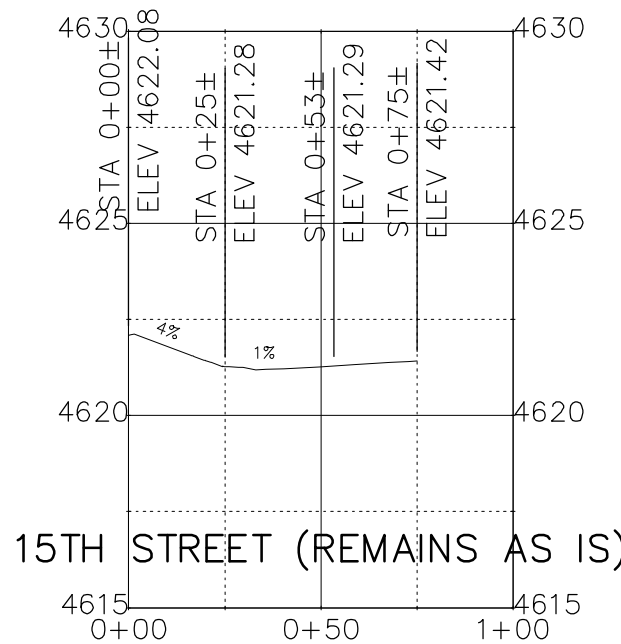
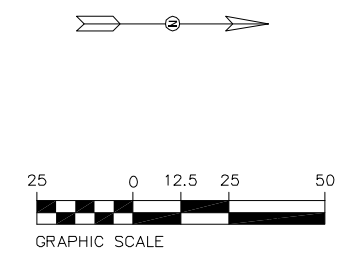
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| File Name: AT LEFT | | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: dr pln pro | | | TCSP M555-029 | | | |
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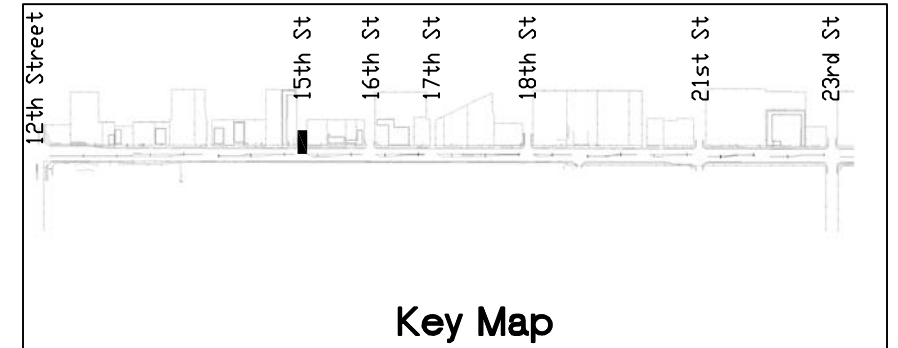


PLAN

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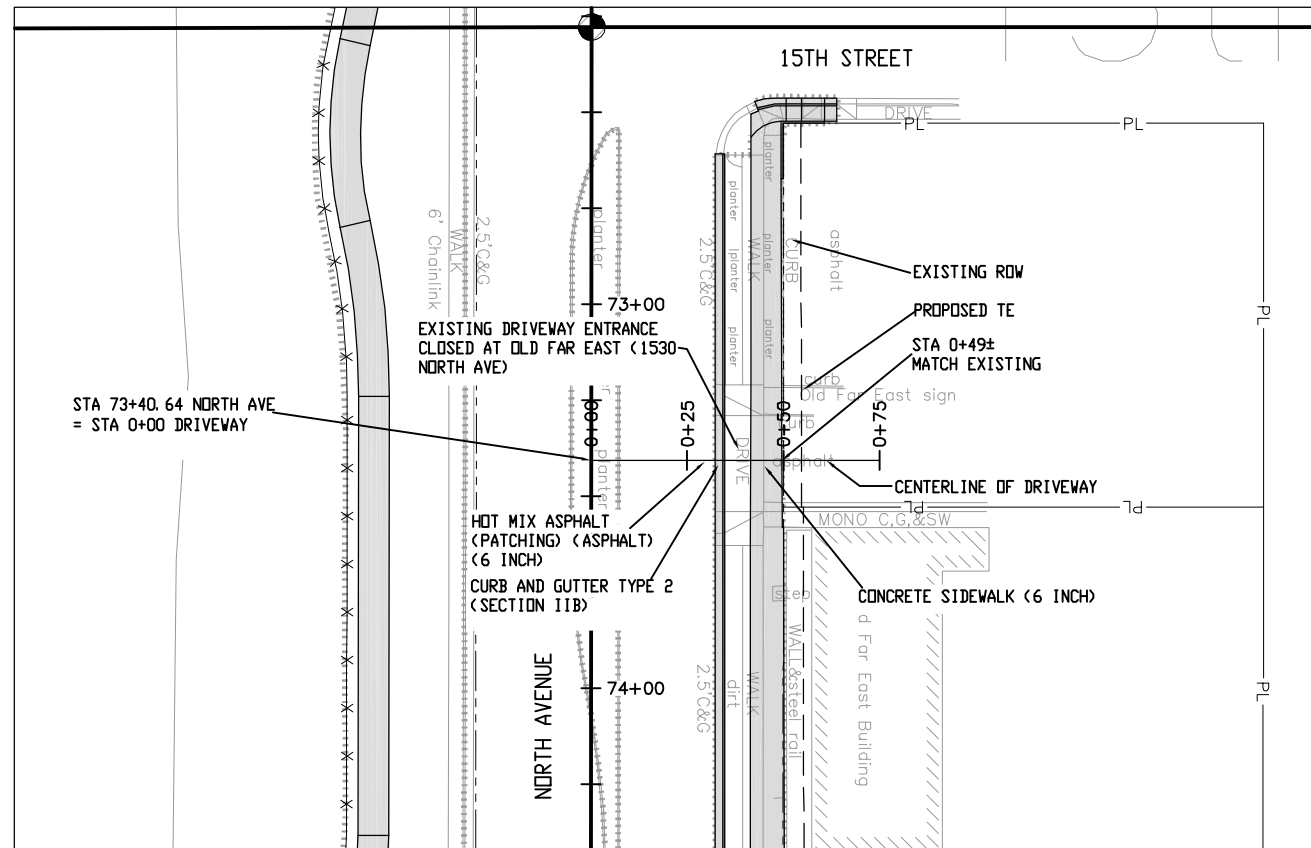
15TH STREET (REMAINS AS IS)



Key Map

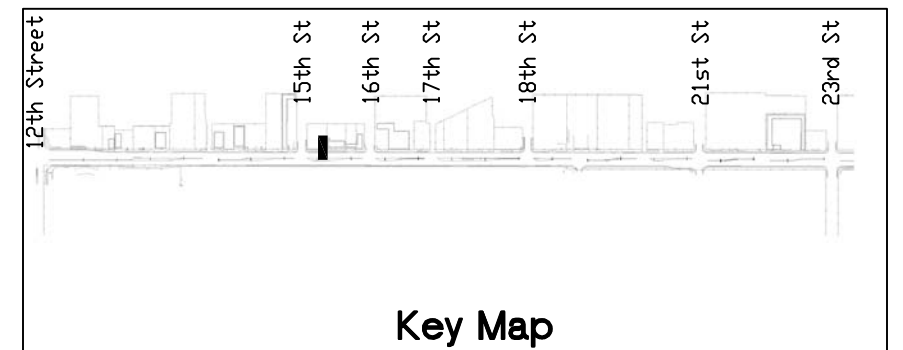
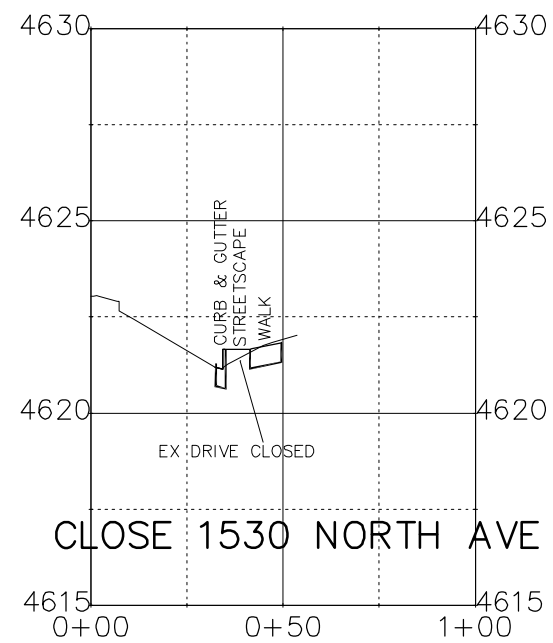
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| Project No./Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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PLAN




Key Map

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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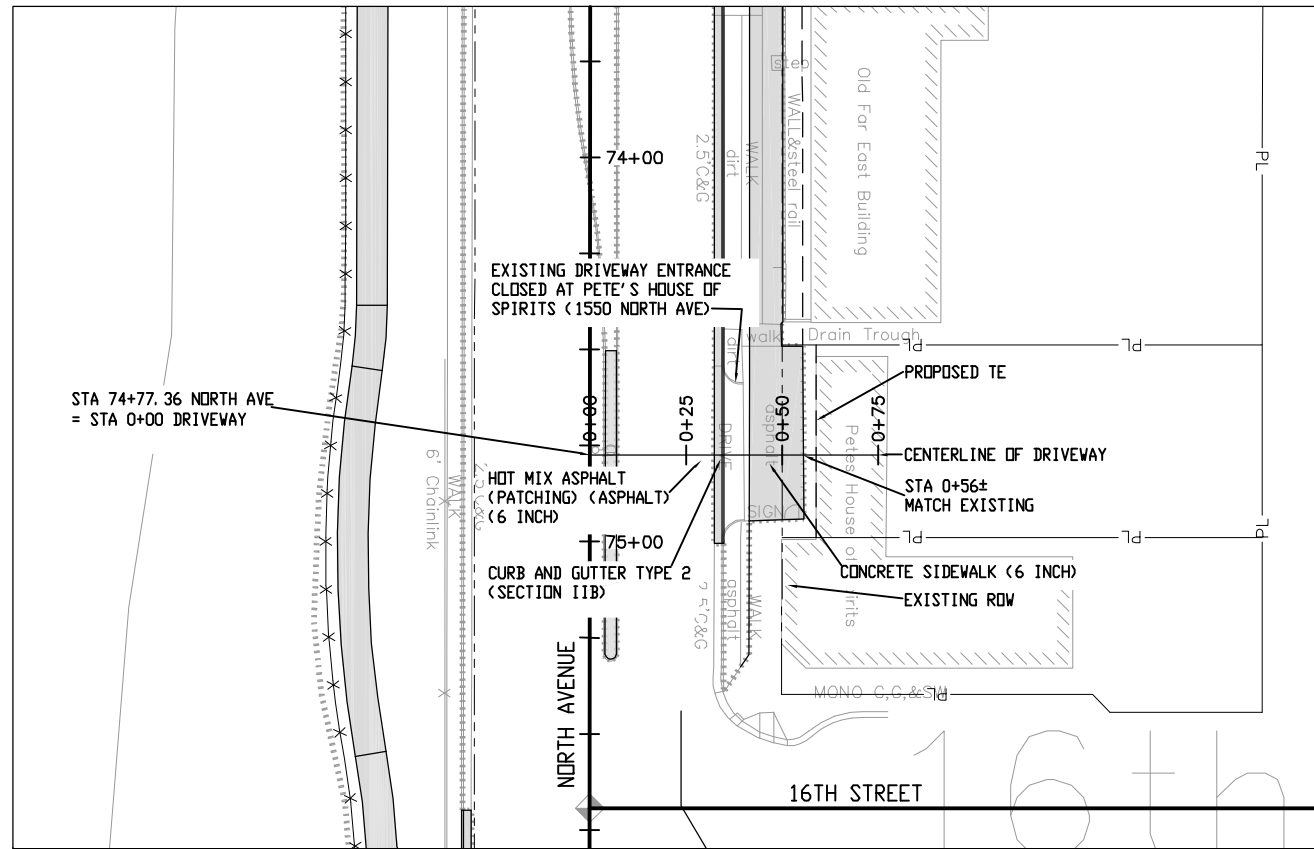
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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
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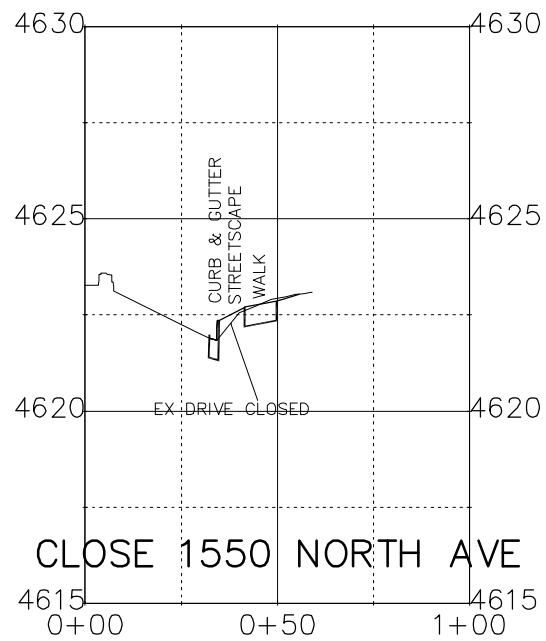
Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 13 of 42

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **98**

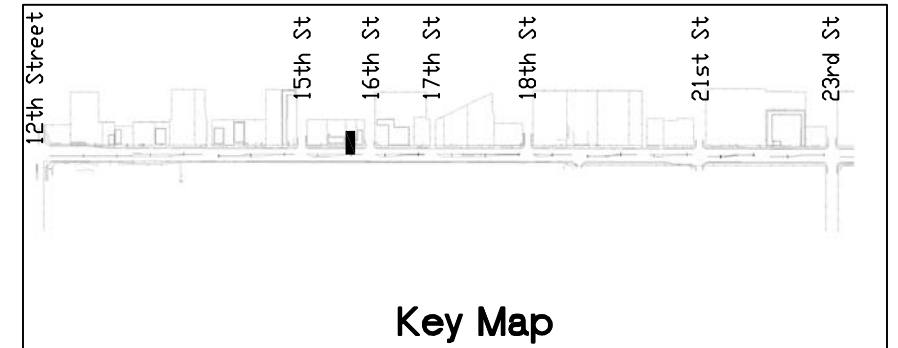
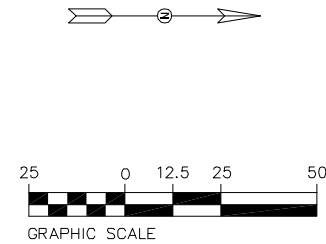
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Key Map

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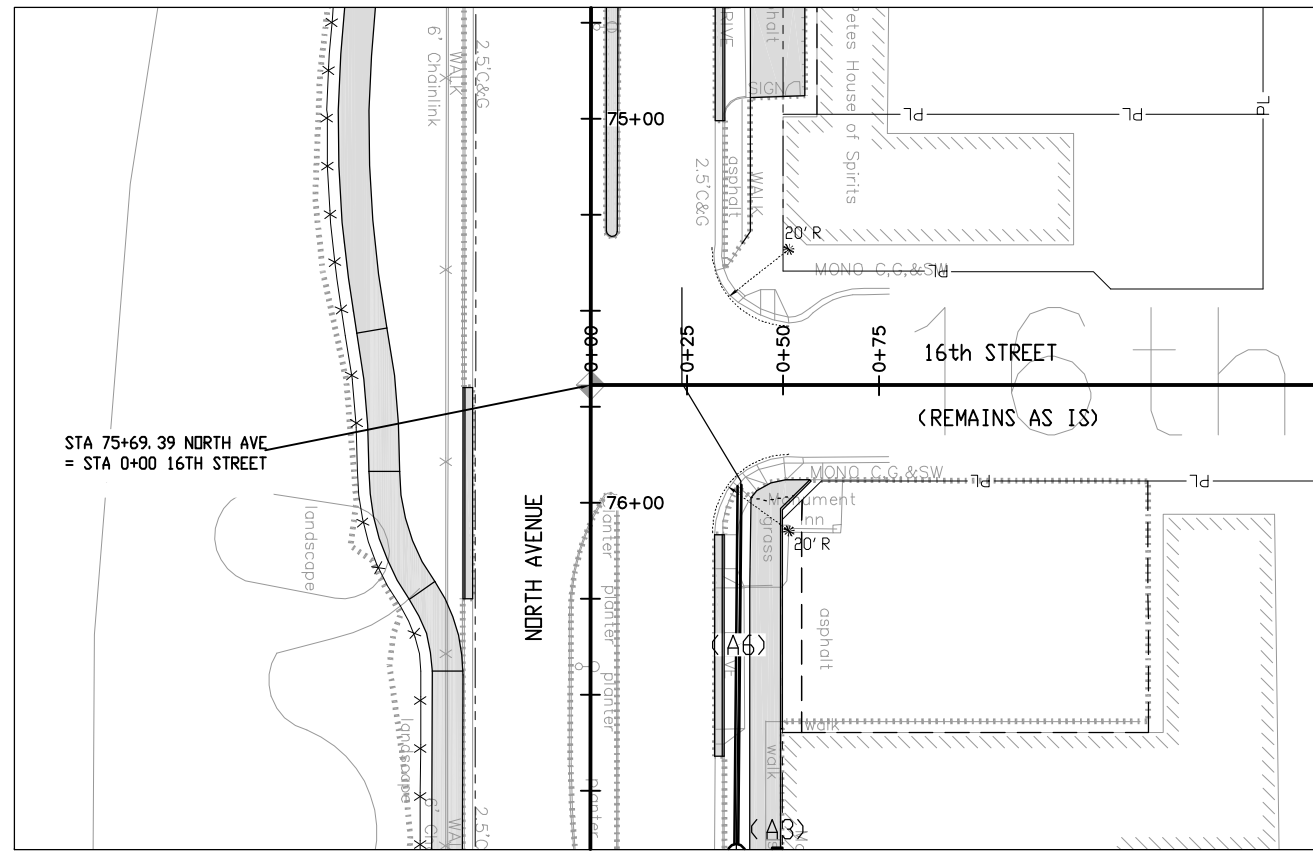
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| Detailer: John Smith | |
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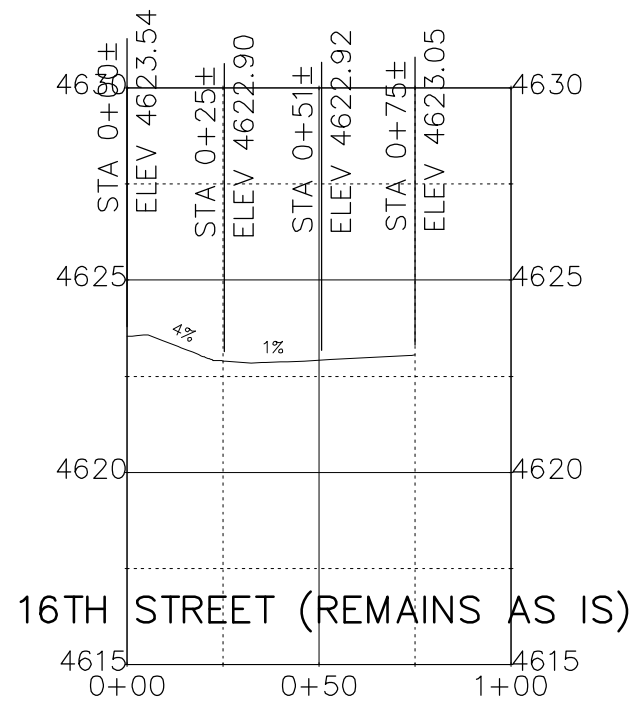
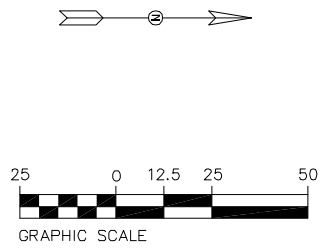
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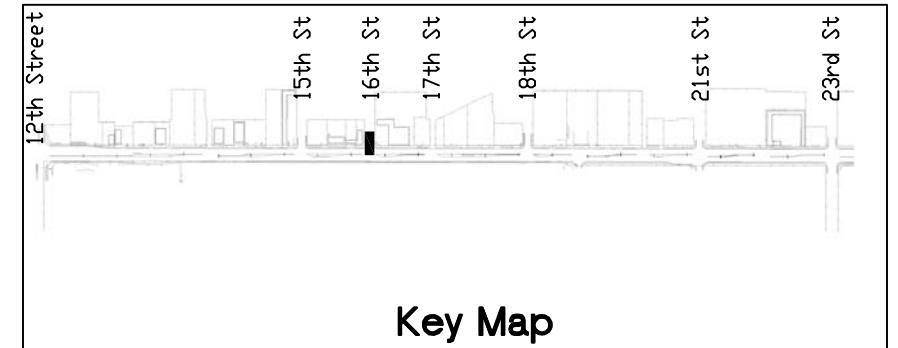


PLAN

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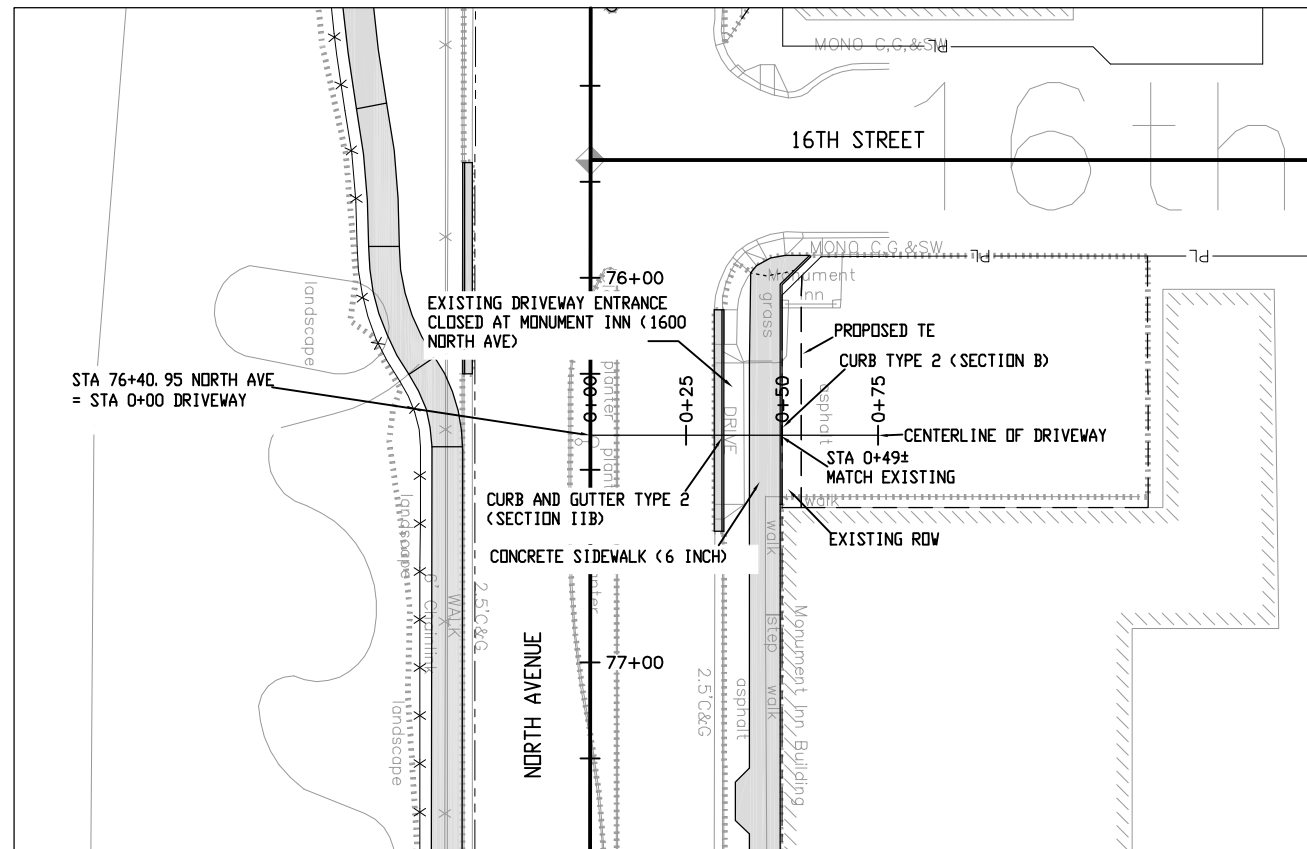
16TH STREET (REMAINS AS IS)



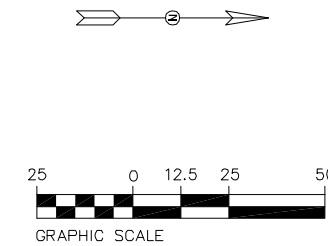
Key Map

| Print Date: AT LEFT File Name: AT LEFT Horiz. Scale: 1:50 Vert. Scale: NA Unit Information: City of GJ Unit Leader Initials: DPJ | <div style="font-size: 2em; font-weight: bold;">0000</div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 20%;">Date:</th> <th style="width: 50%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">As Constructed</td> </tr> <tr> <td>No Revisions:</td> </tr> <tr> <td>Revised:</td> </tr> <tr> <td>Void:</td> </tr> </table> | As Constructed | No Revisions: | Revised: | Void: | Driveway Plans and Profiles | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Designer: John Smith</td> <td>Structure Numbers</td> </tr> <tr> <td>Detailer: John Smith</td> <td> </td> </tr> <tr> <td>Sheet Subset: dr pln pro</td> <td>Subset Sheets: 15 of 42</td> </tr> </table> | Designer: John Smith | Structure Numbers | Detailer: John Smith | | Sheet Subset: dr pln pro | Subset Sheets: 15 of 42 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Project No./Code</td> </tr> <tr> <td style="text-align: center;">TCSP M555-029</td> </tr> <tr> <td style="text-align: center;">19365</td> </tr> <tr> <td style="text-align: center;">Sheet Number 100</td> </tr> </table> | Project No./Code | TCSP M555-029 | 19365 | Sheet Number 100 |
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| TCSP M555-029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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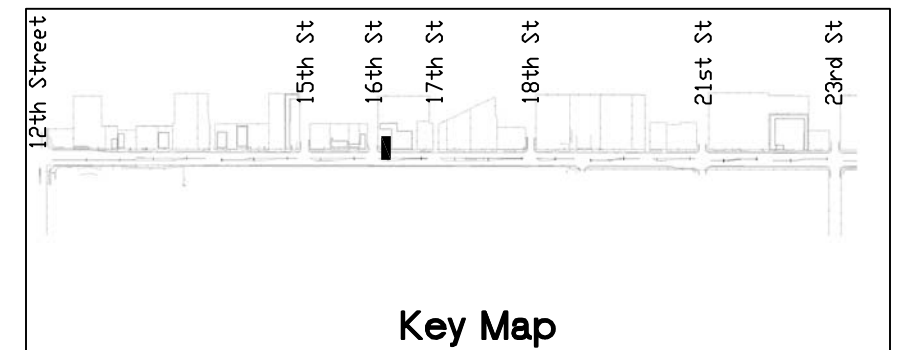
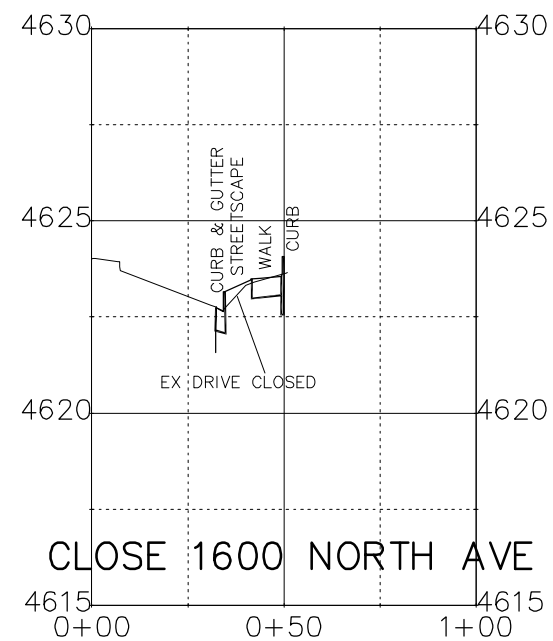
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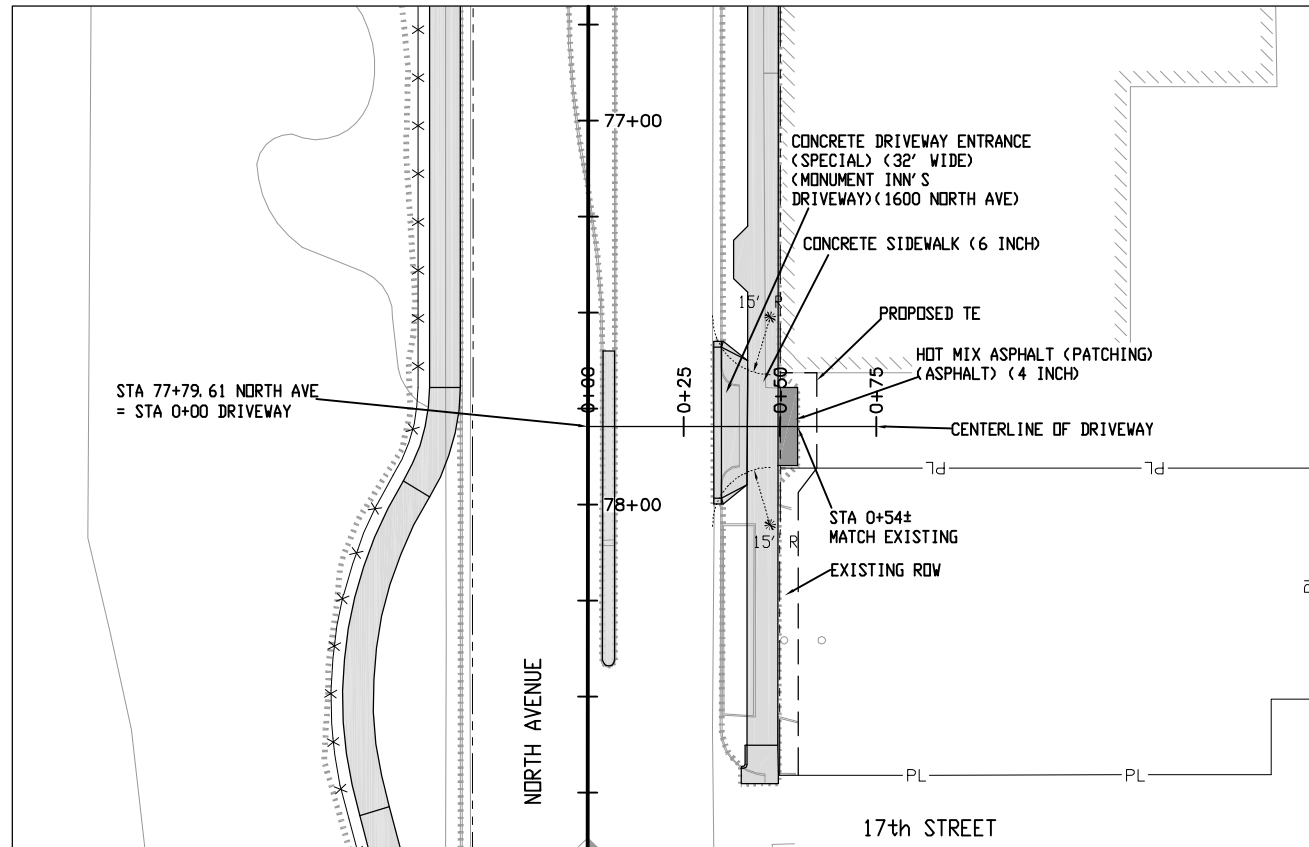
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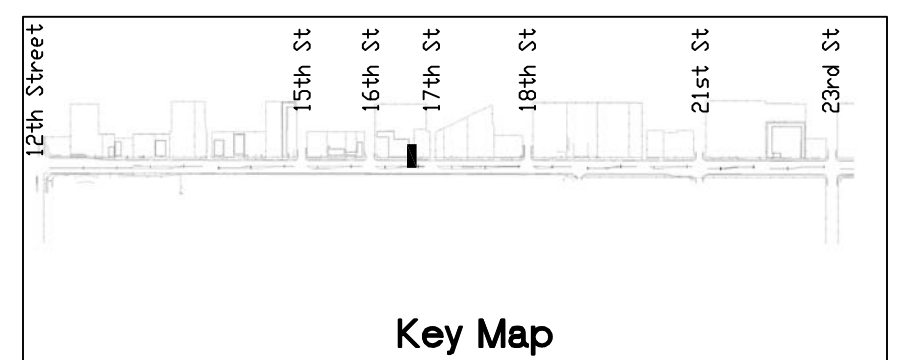
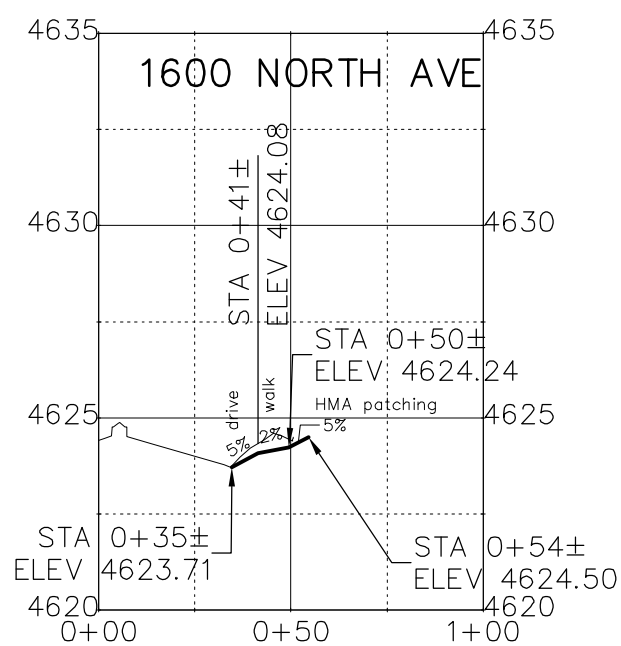
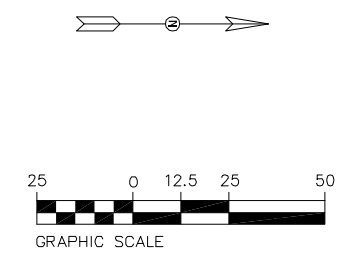
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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
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| Project No./Code |
| TCSP M555-029 |
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| Sheet Number 101 |

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Phone: 970-683-6351 FAX: 970-683-6369

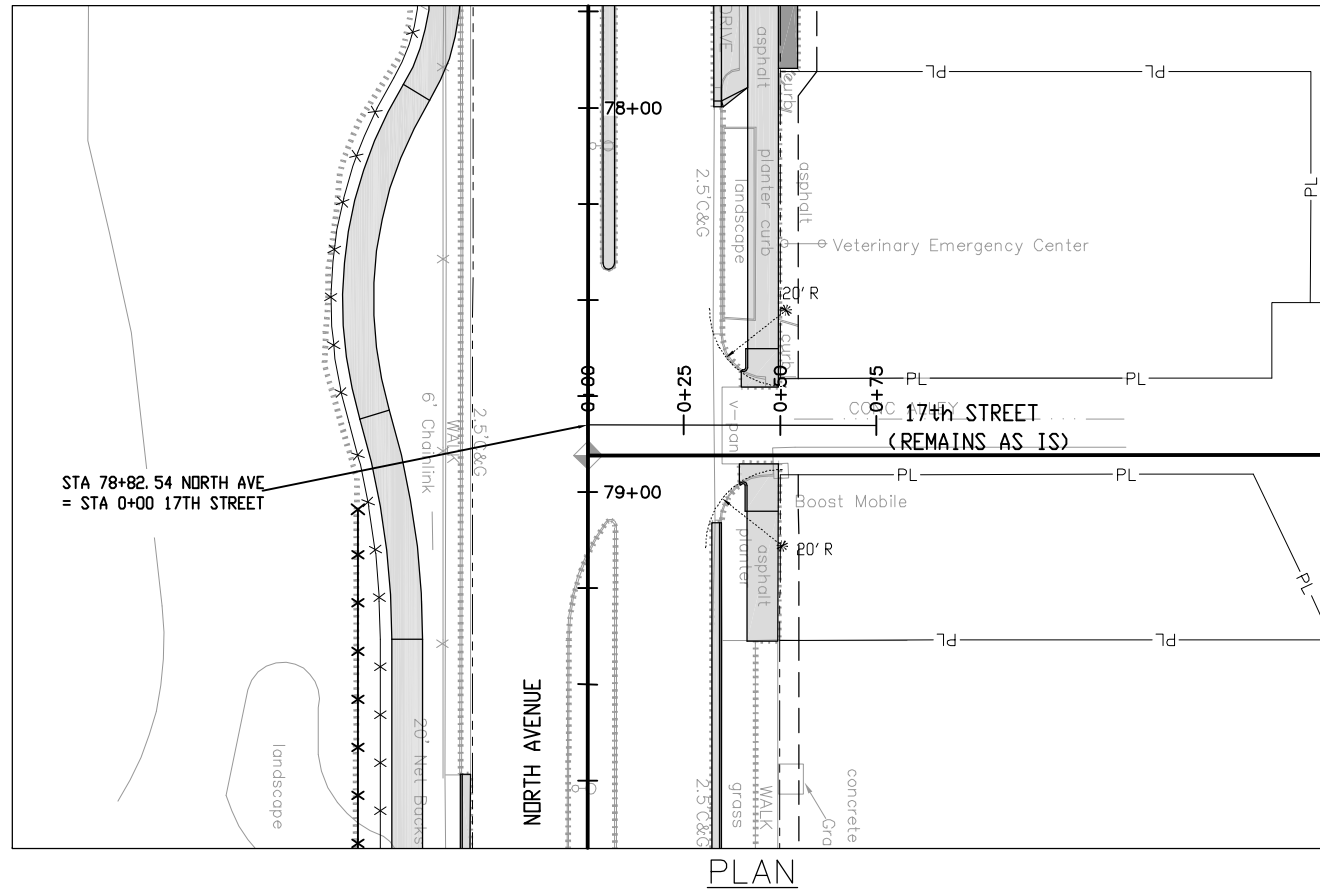
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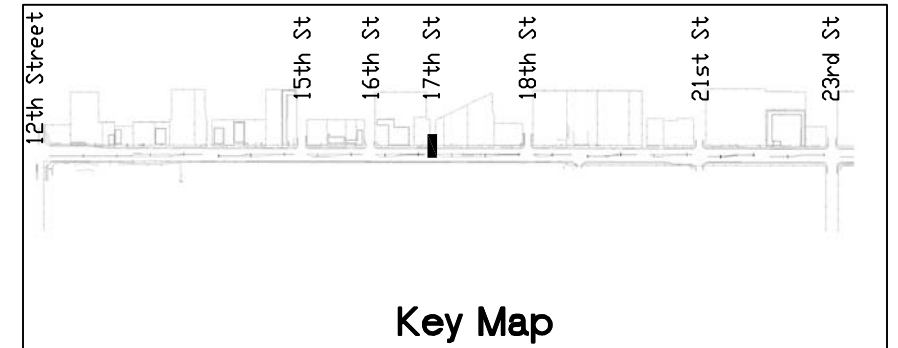
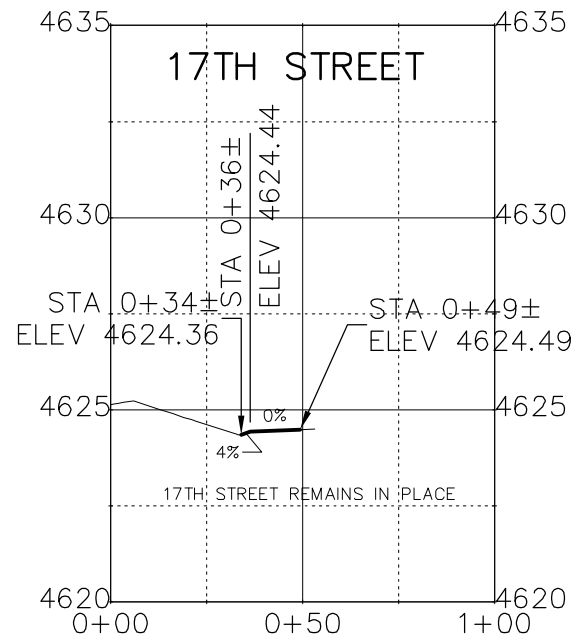
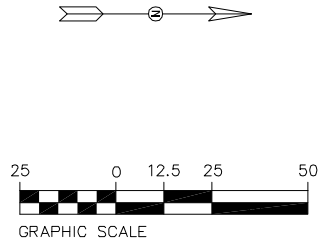
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| Driveway Plans and Profiles | |
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| Project No./Code |
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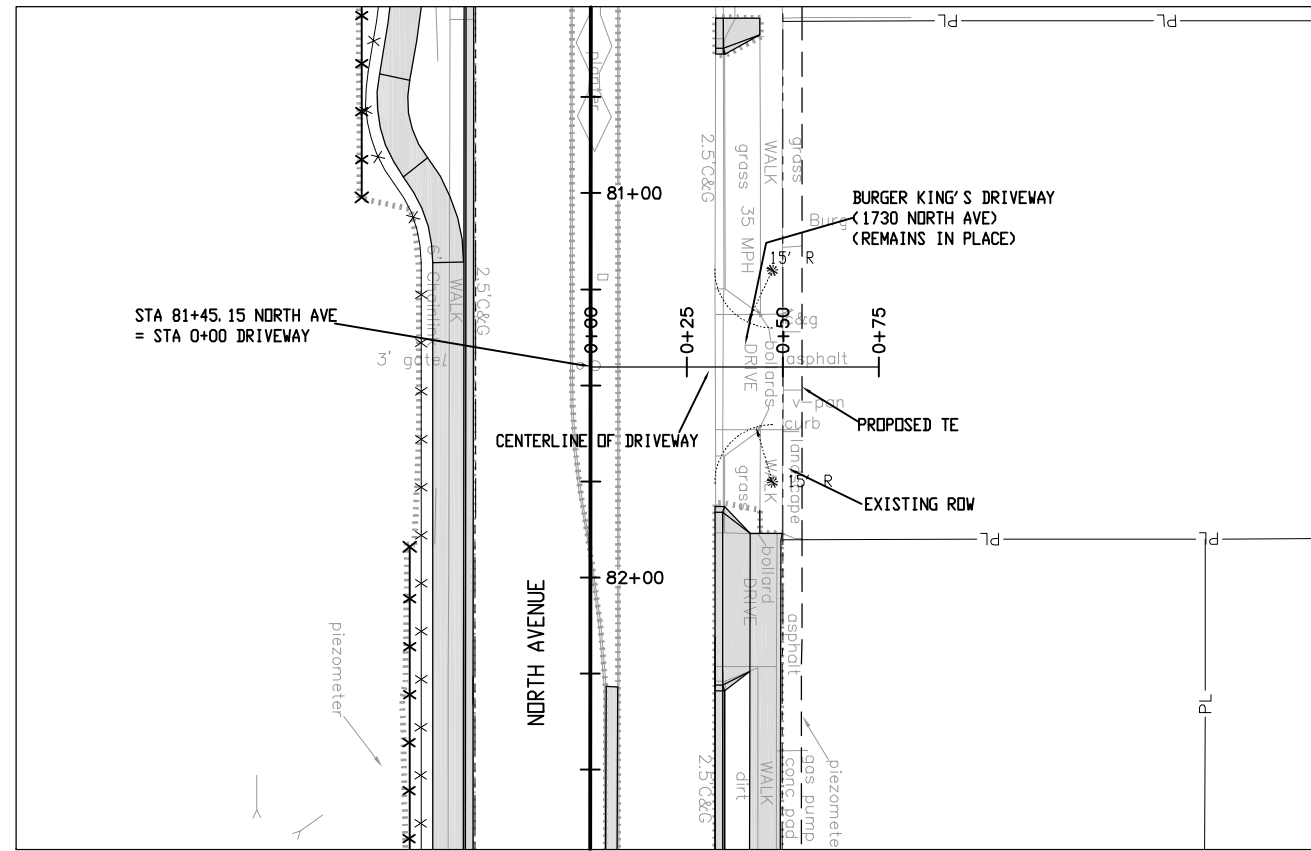
SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



Key Map

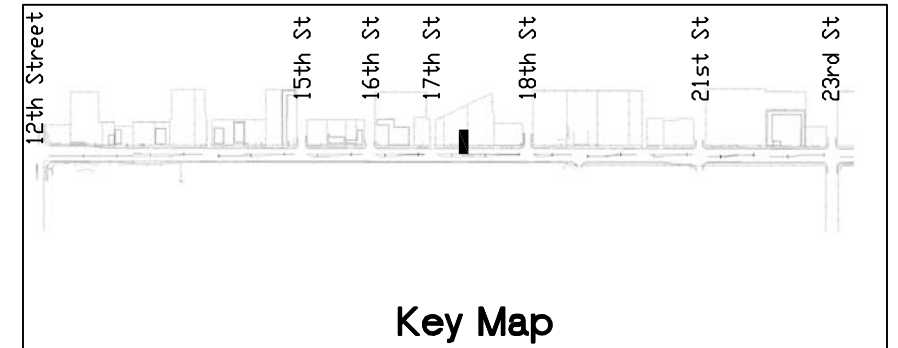
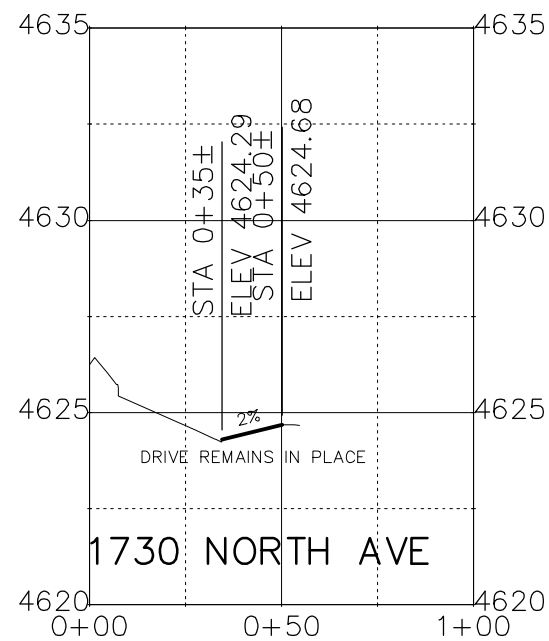
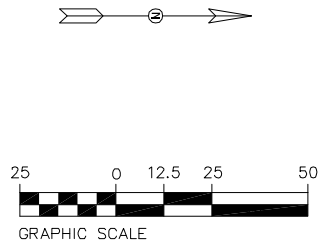
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| No Revisions: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Revised: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Designer: John Smith | Structure Numbers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailer: John Smith | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet Subset: dr pln pro | Subset Sheets: 18 of 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project No./Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCSP M555-029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19365 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet Number 103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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PLAN

SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS




Key Map

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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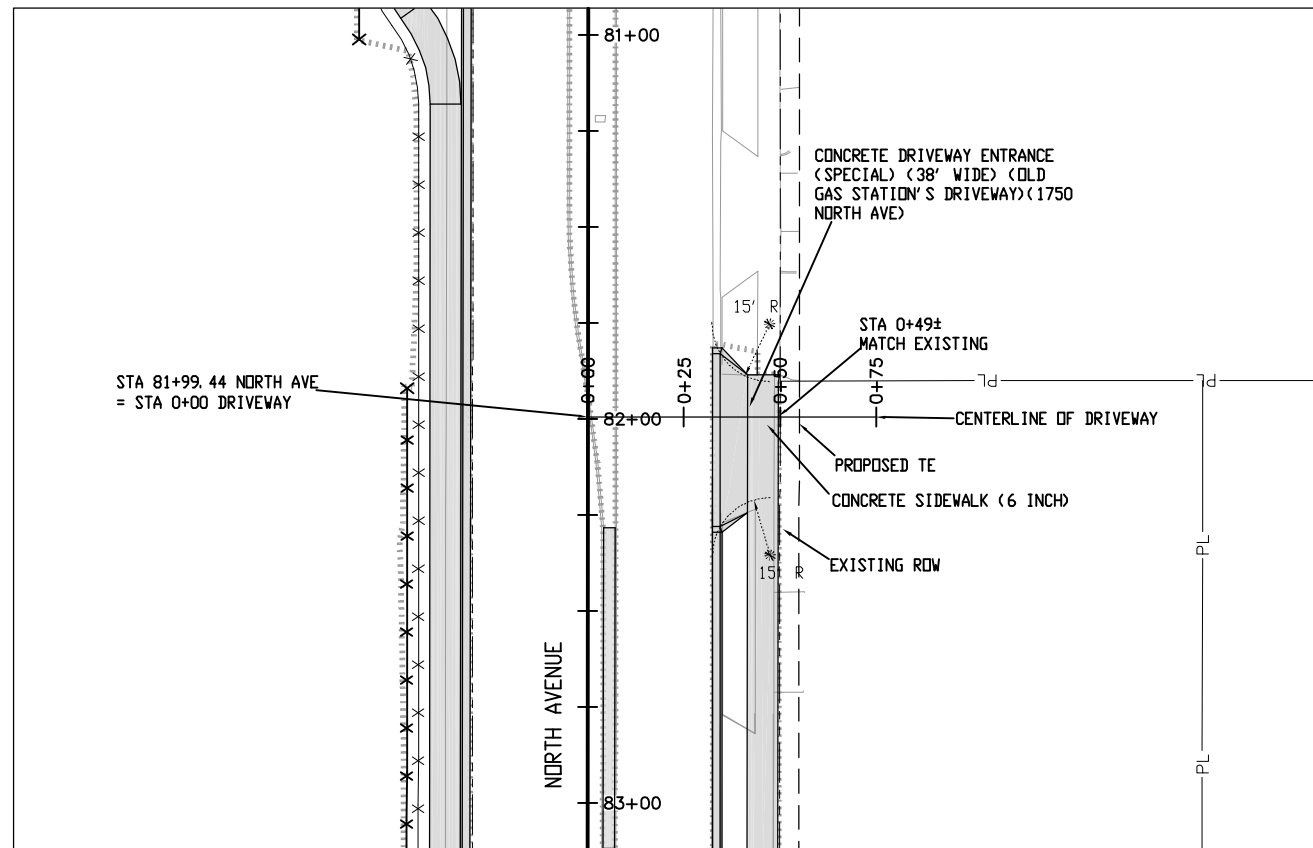
Colorado Department of Transportation

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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 20 of 42

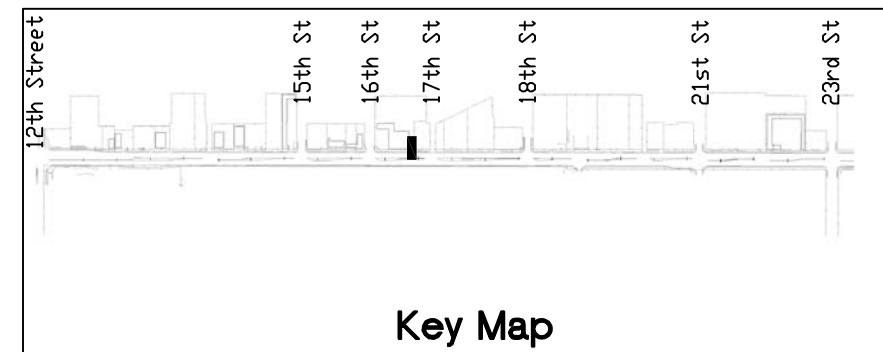
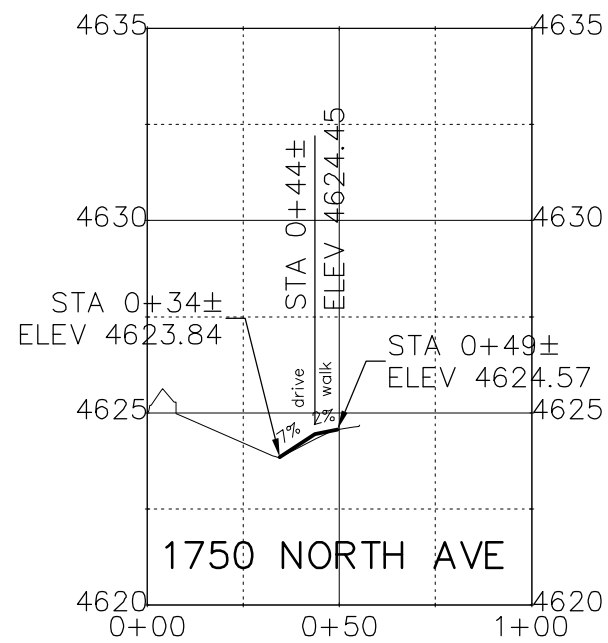
Project No./Code
 TCSP M555-029
 19365
 Sheet Number **105**

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STAKING DATA AND ELEVATIONS

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Key Map

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| Sheet Revisions | | |
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Colorado Department of Transportation



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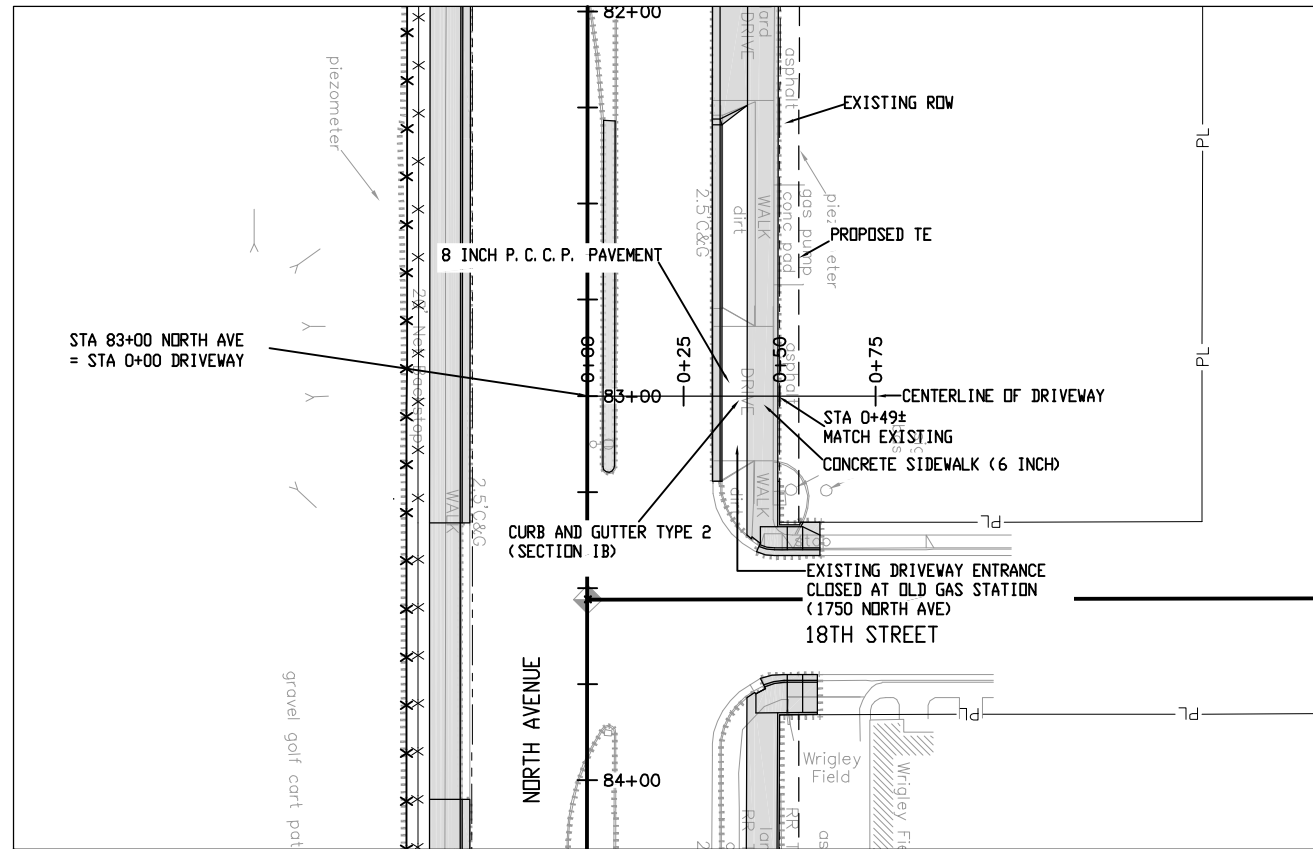
Region 3 RBB

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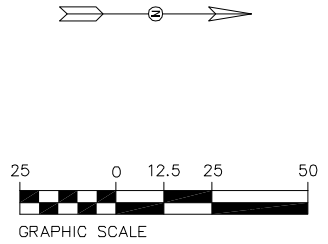
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 106 |

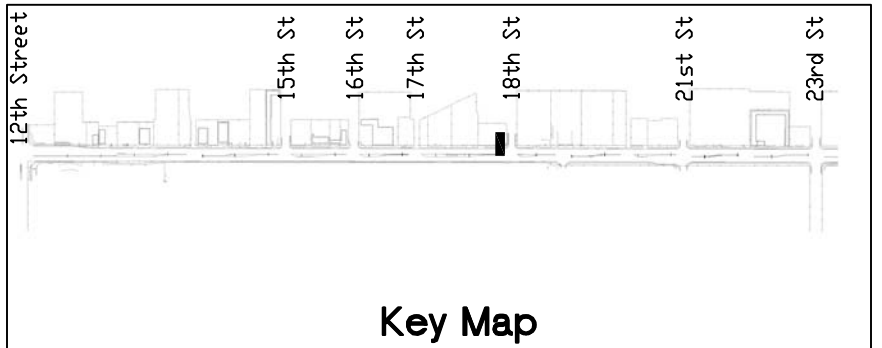
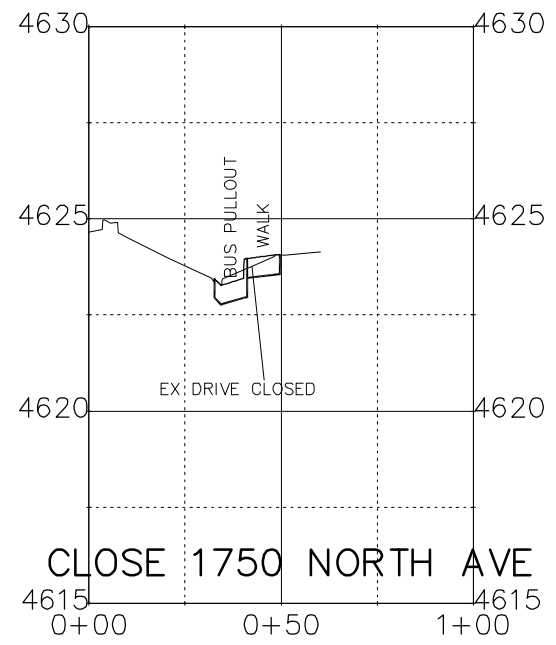
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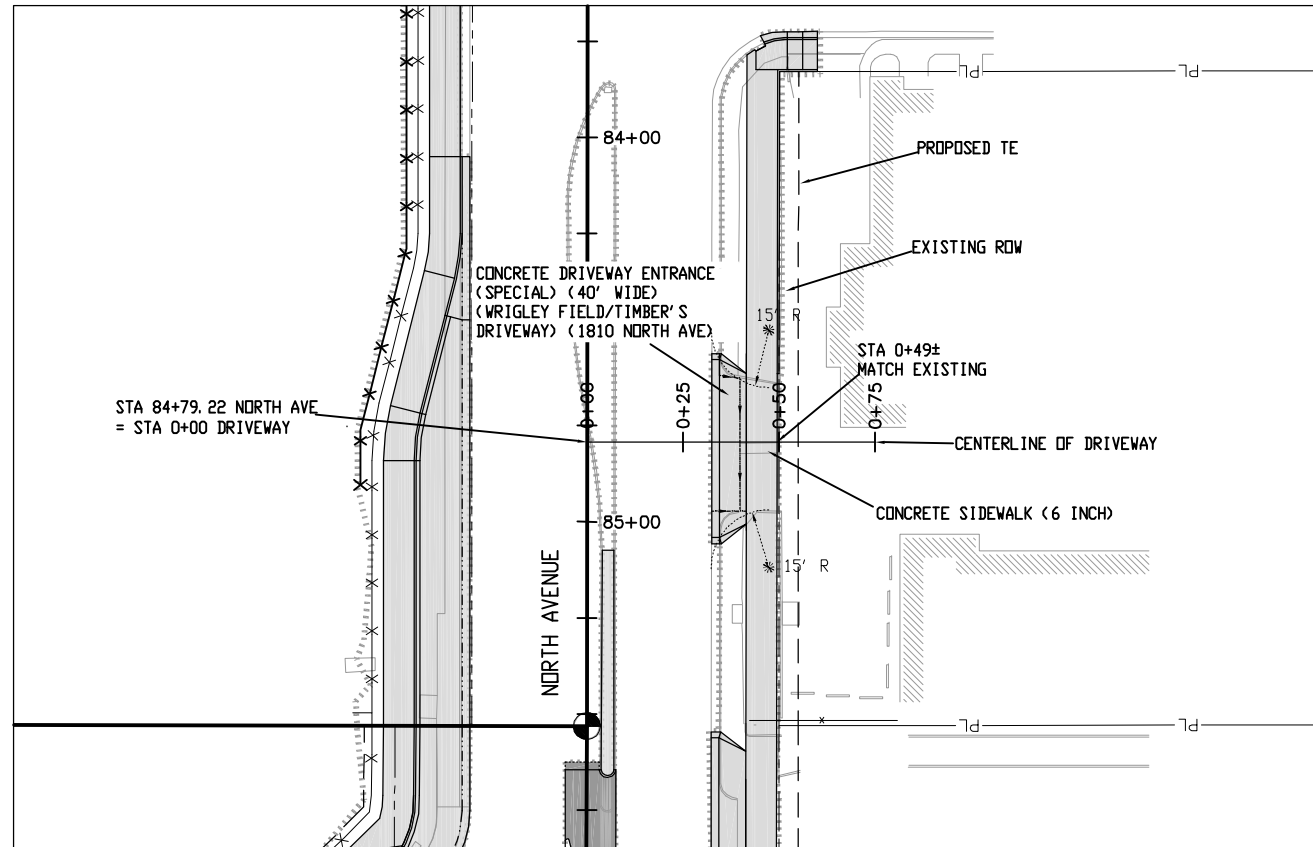
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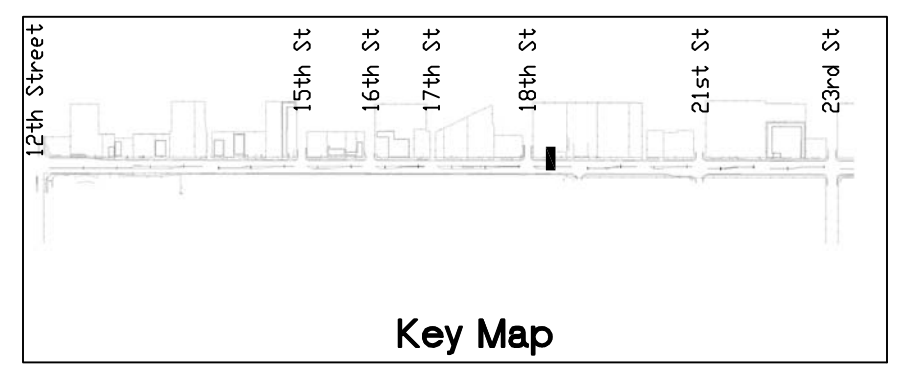
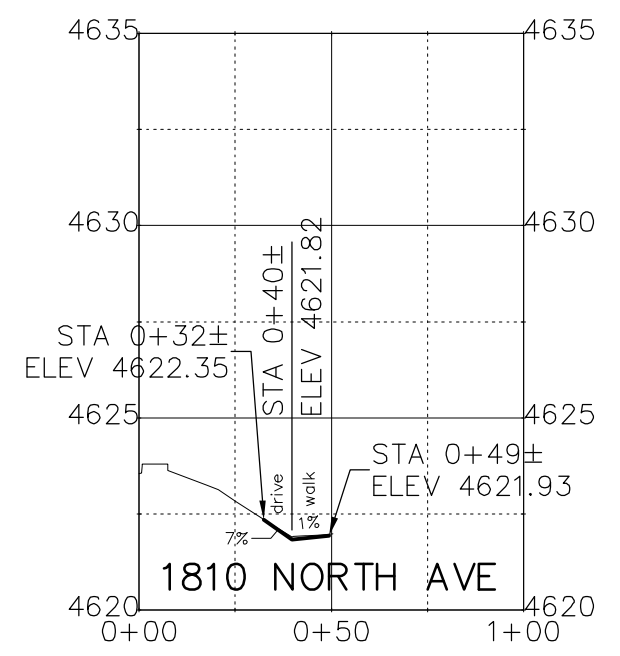
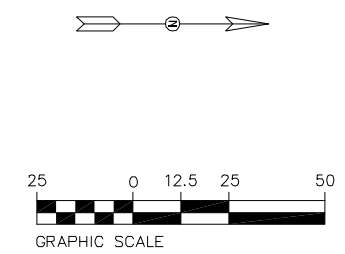
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| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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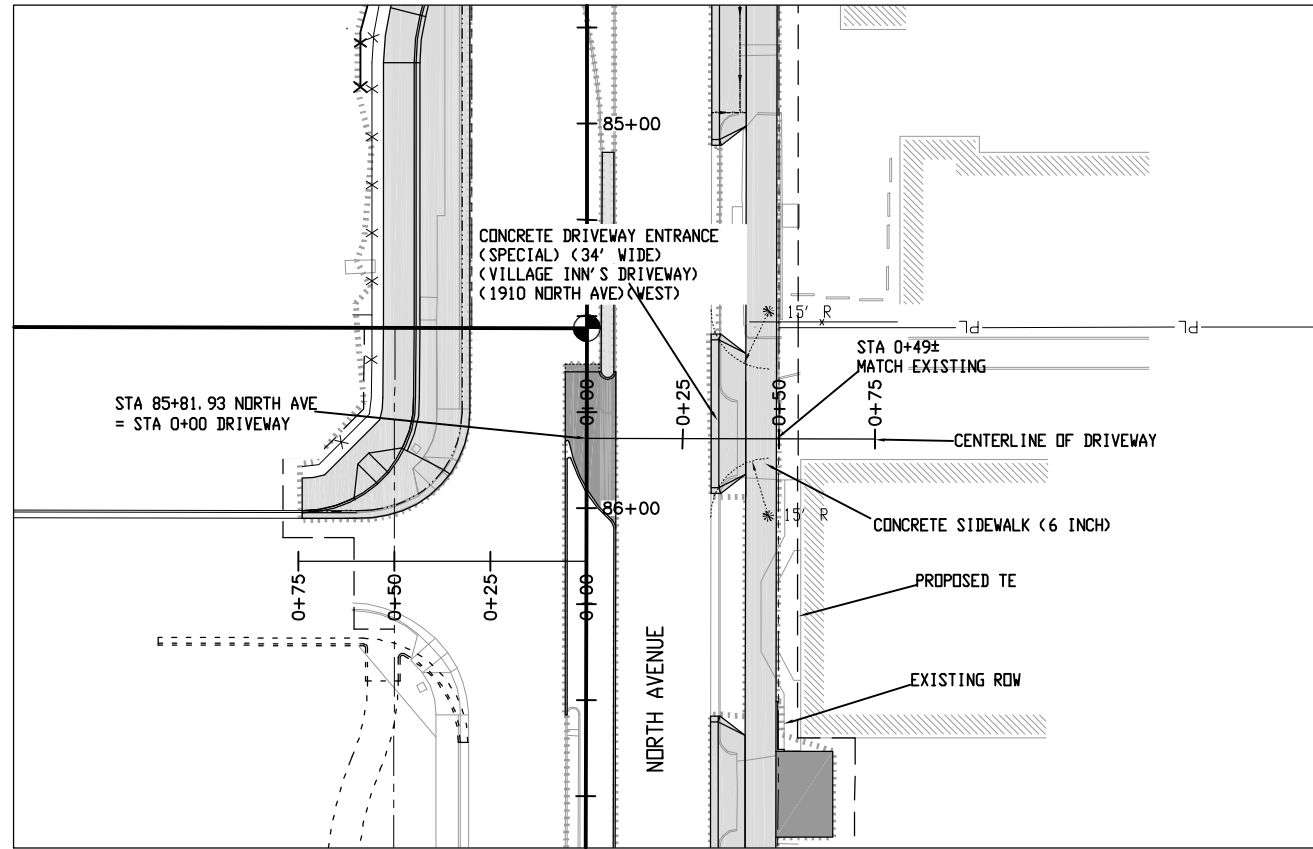
Region 3 RBB

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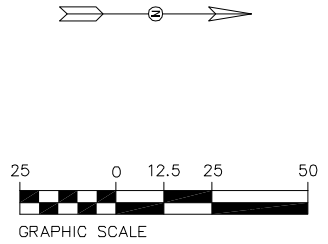
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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 24 of 42 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 109 |

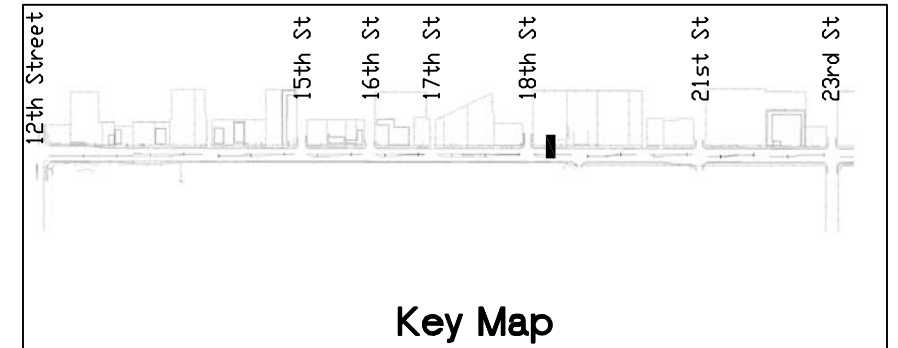
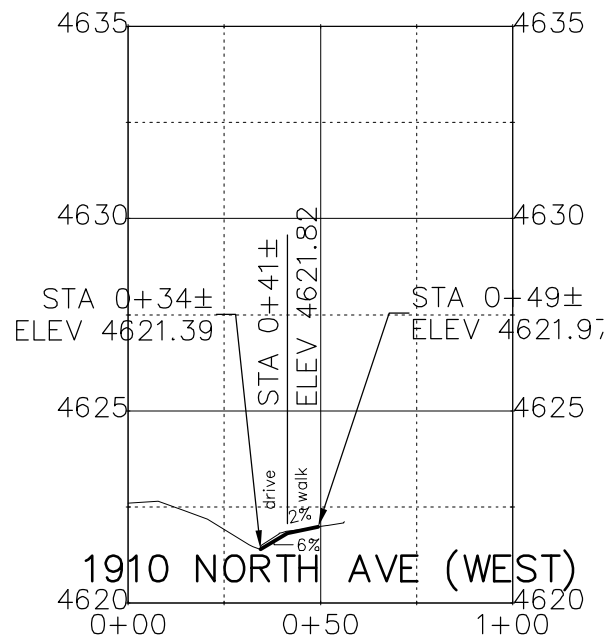
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PLAN




Key Map

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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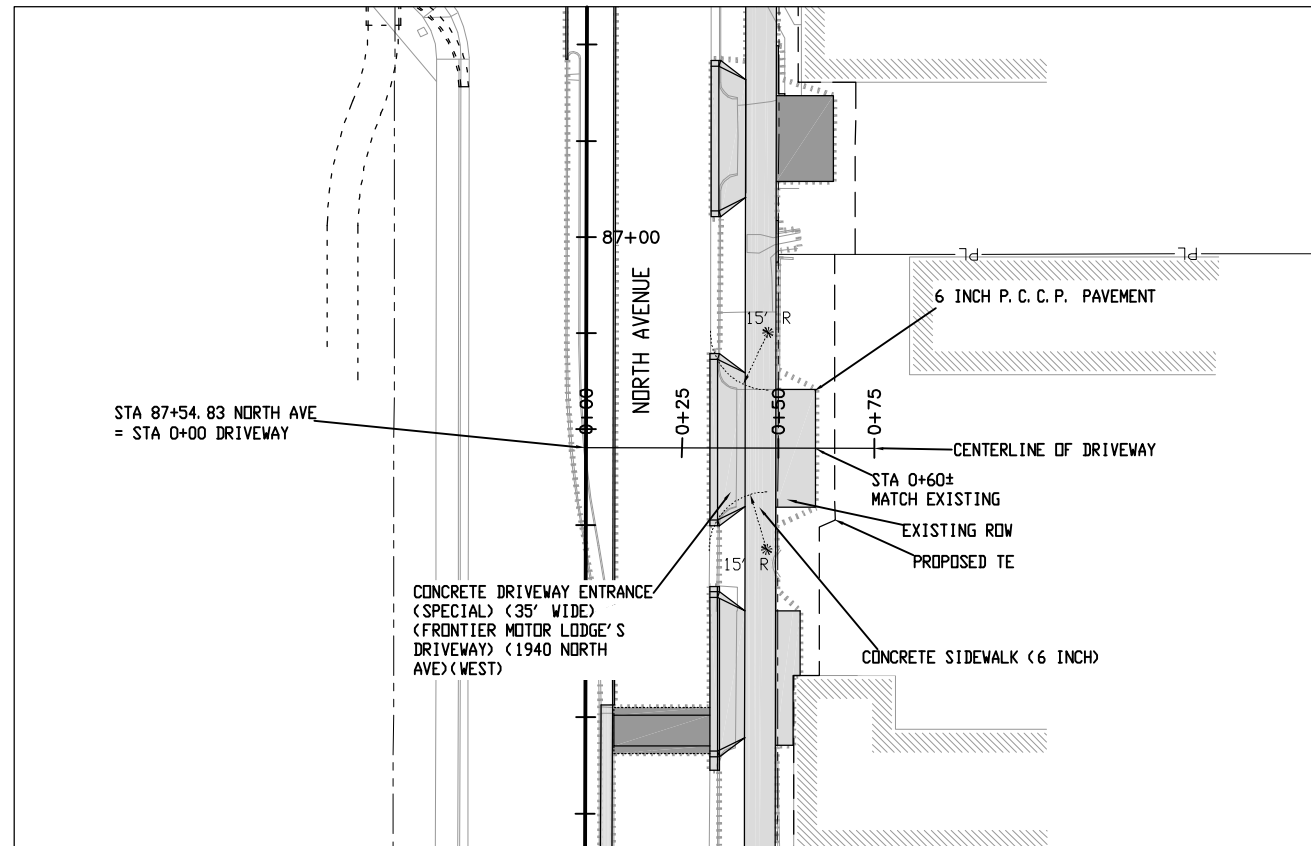
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 25 of 42

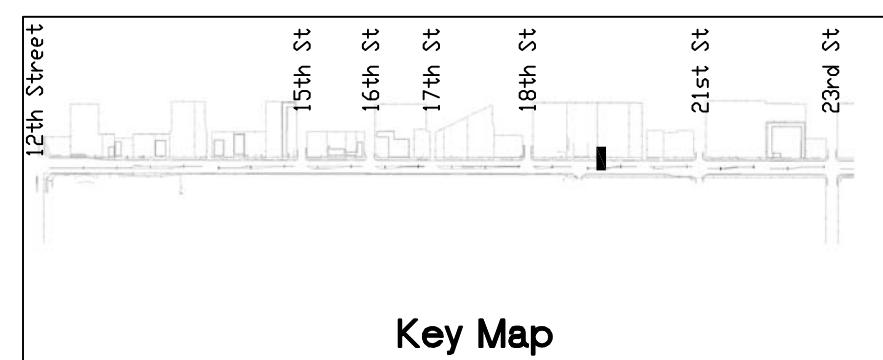
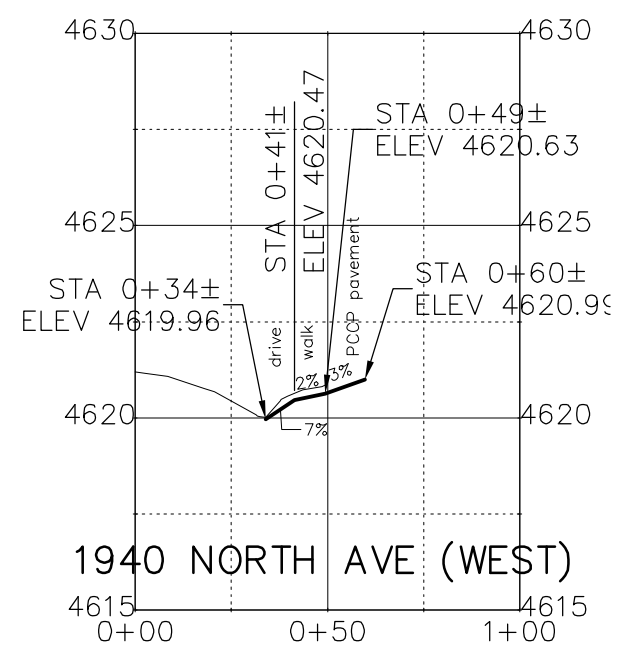
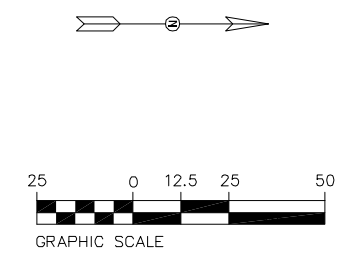
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 19365
 Sheet Number **110**

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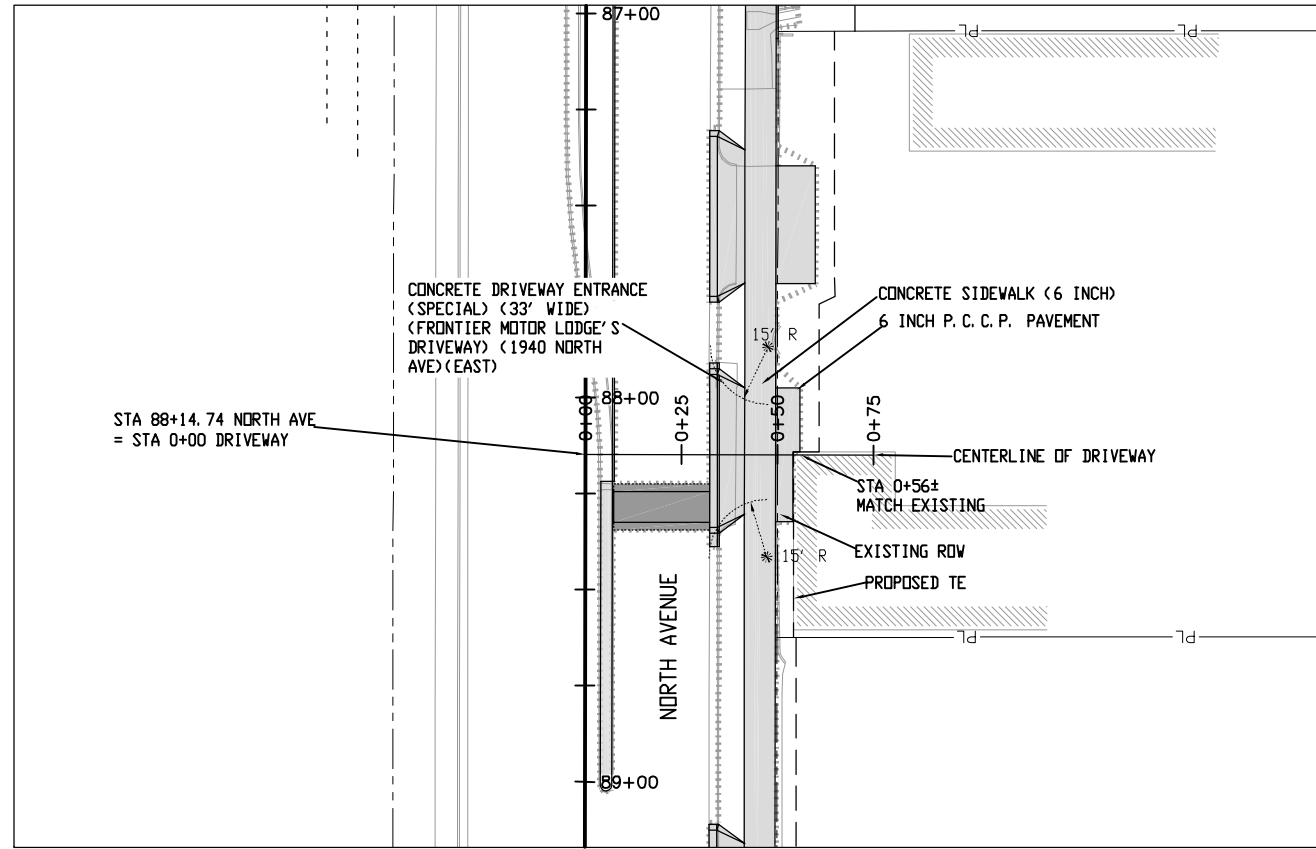
SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



Key Map

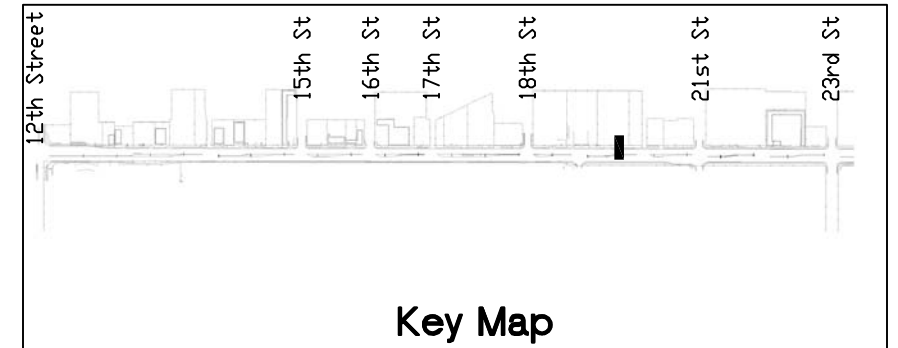
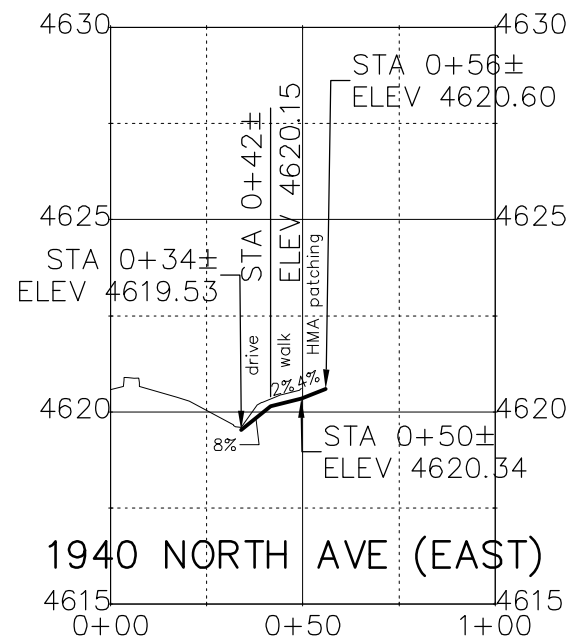
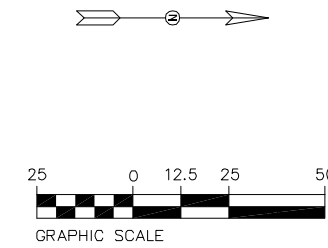
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| File Name: AT LEFT | | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | No Revisions: | | Designer: John Smith | | | Structure Numbers | | TCSP M555-029 | |
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| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | | Sheet Subset: dr pln pro | | | Subset Sheets: 27 of 42 | | Sheet Number 112 | |

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Key Map

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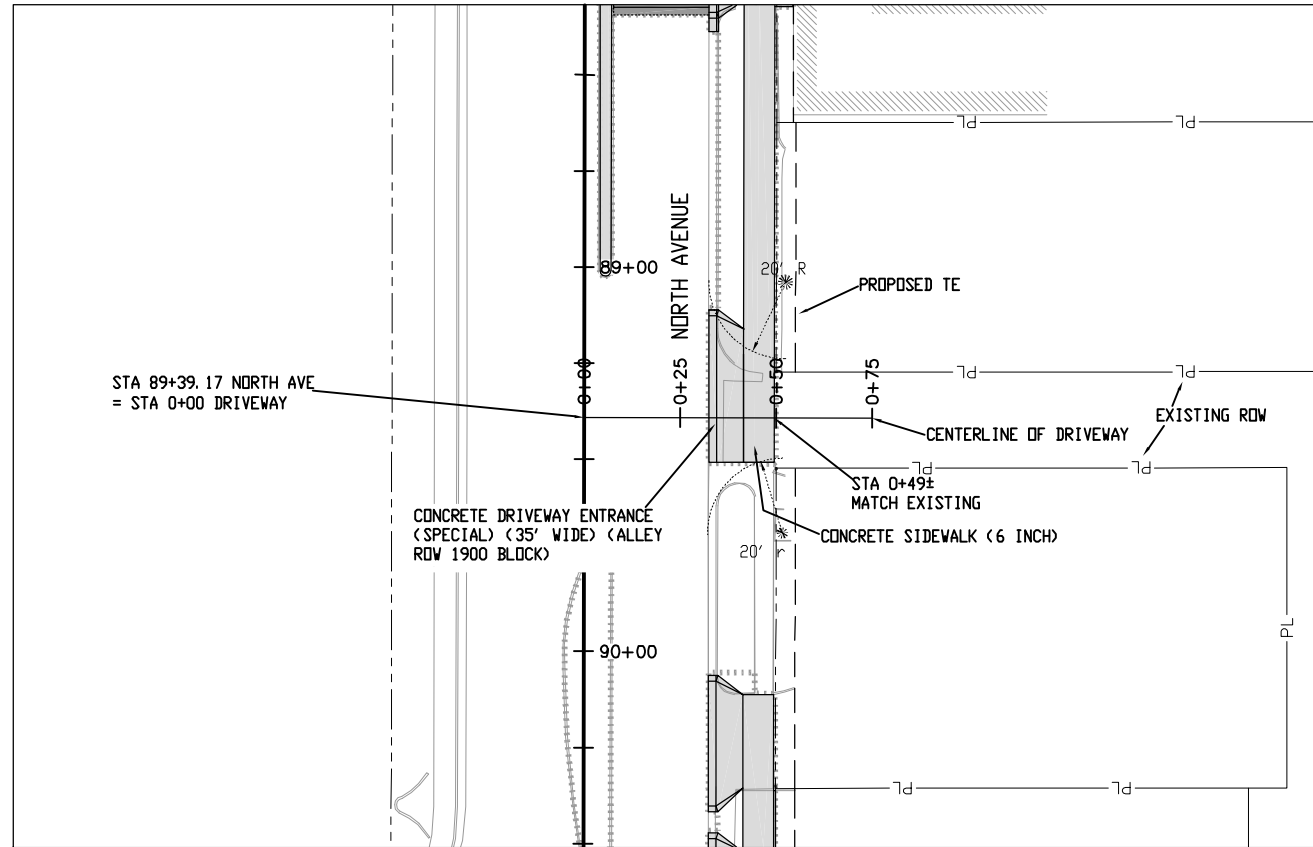
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 Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
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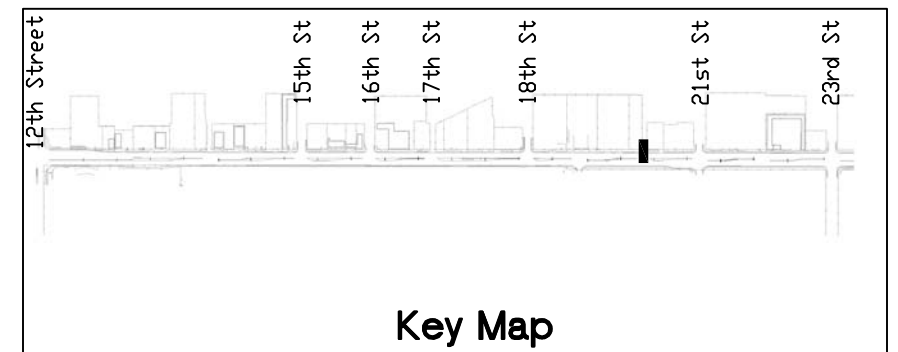
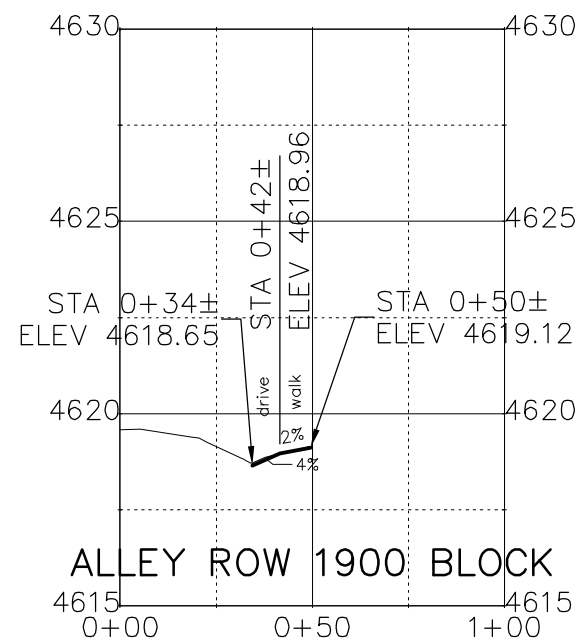
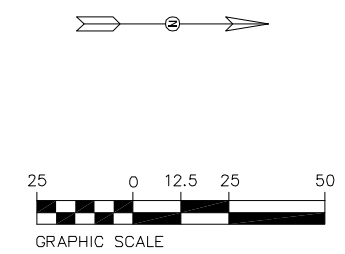
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| TCSP M555-029 |
| 19365 |
| Sheet Number 113 |

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PLAN

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Key Map

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 File Name: AT LEFT
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 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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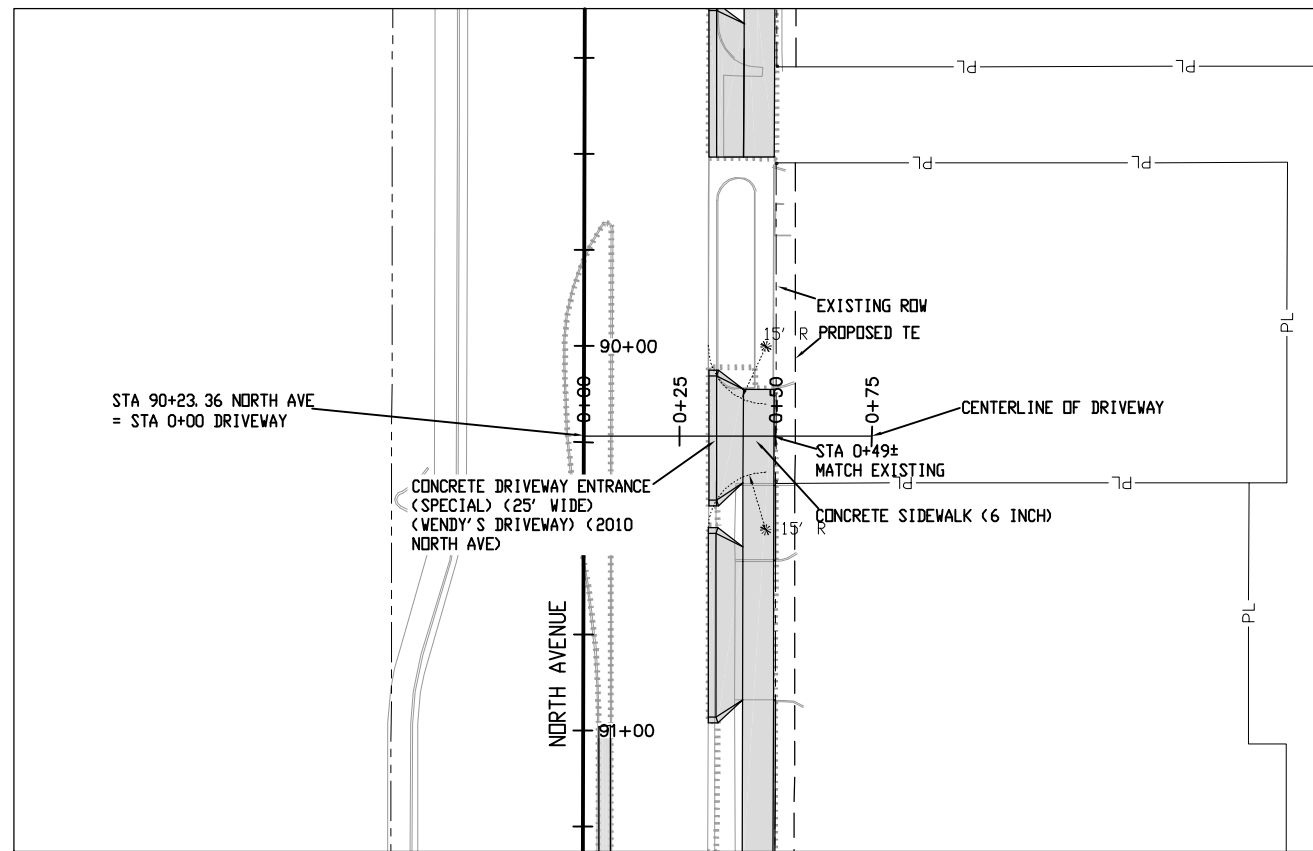
Colorado Department of Transportation
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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

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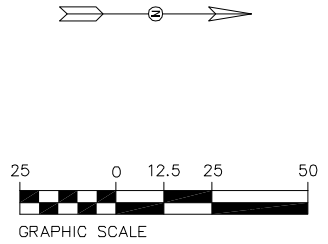
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Project No./Code
 TCSP M555-029
 19365
 Sheet Number **114**

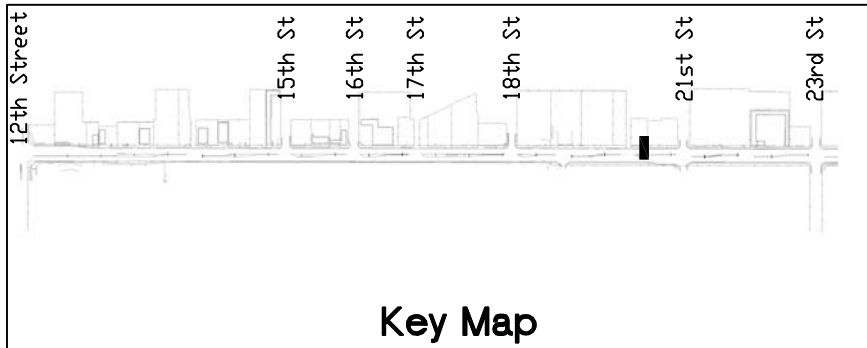
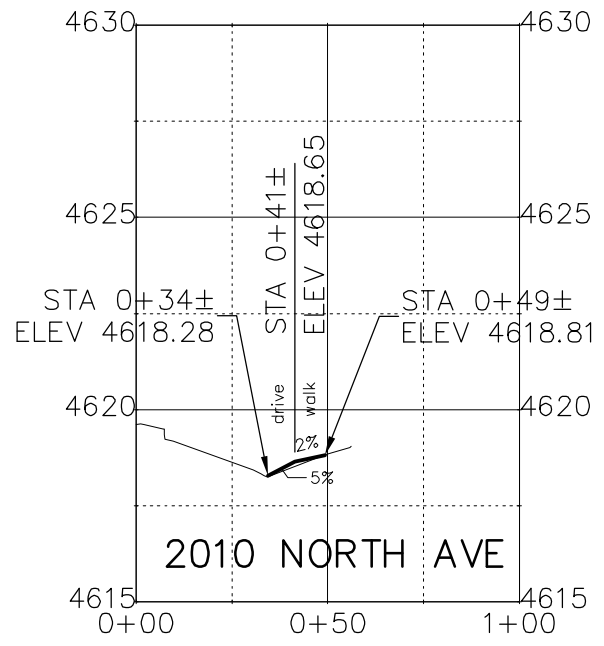
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SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



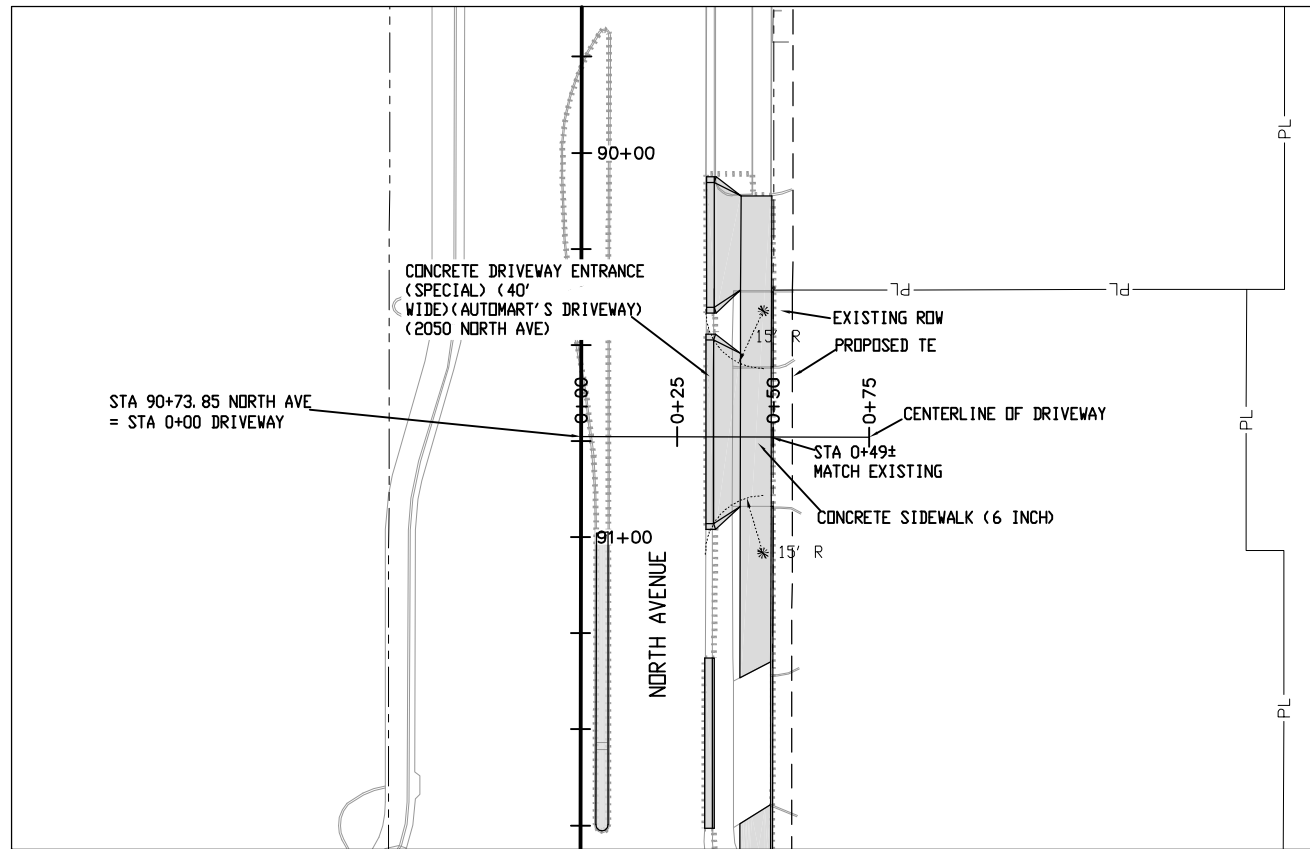
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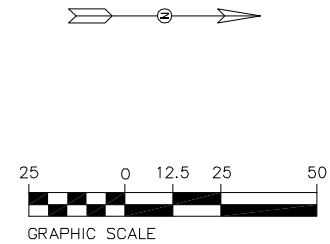
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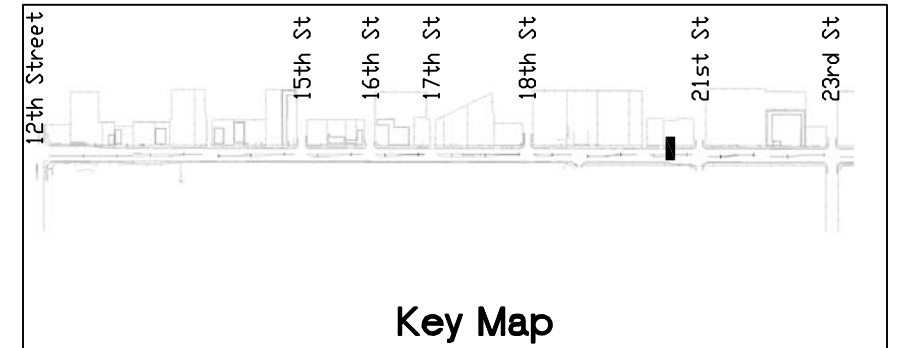
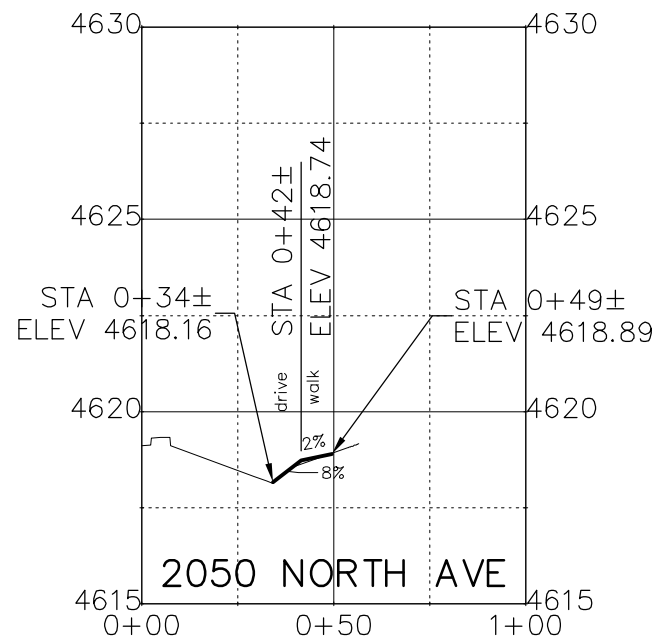
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STAKING DATA AND ELEVATIONS



PLAN



Key Map

Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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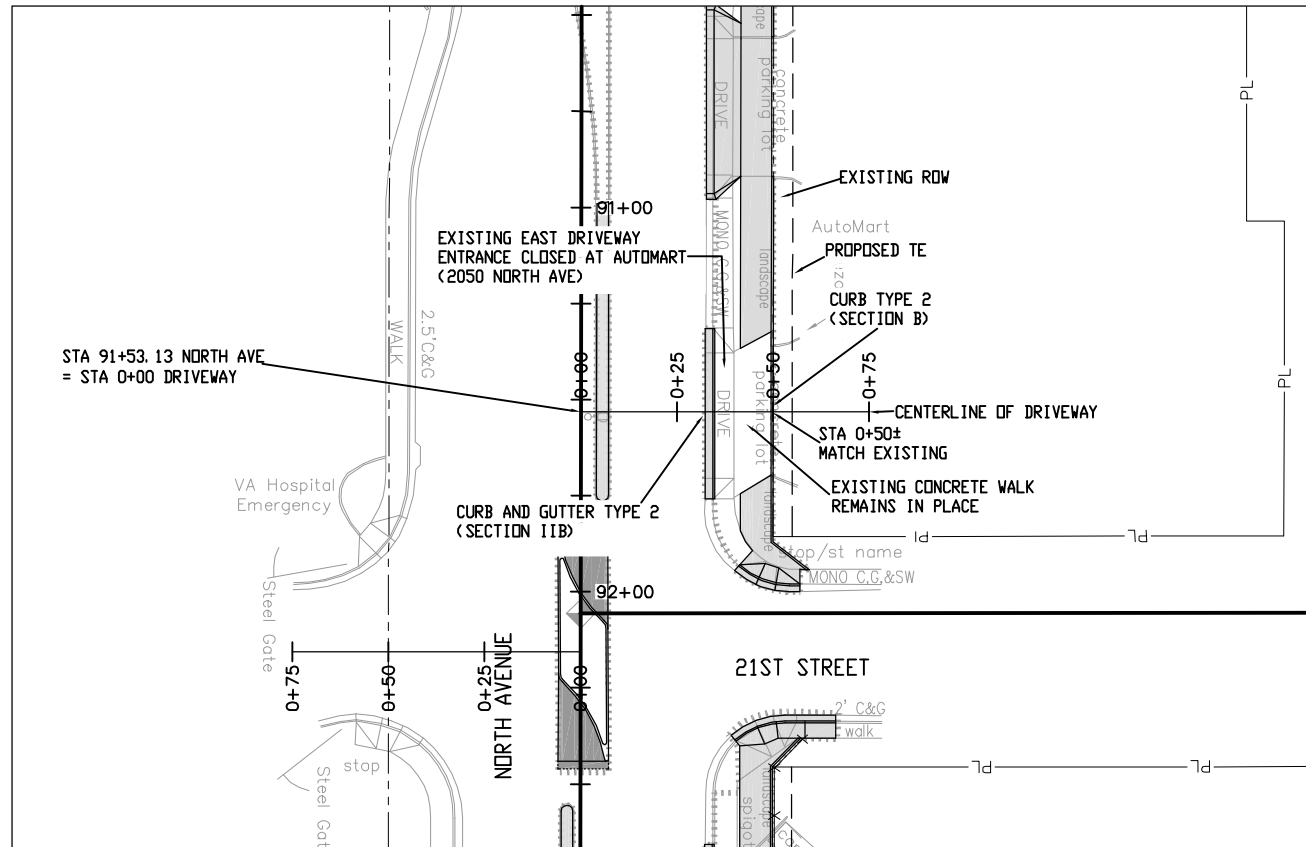
Colorado Department of Transportation
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 Grand Junction, CO, 81501
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Region 3

As Constructed
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Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 31 of 42

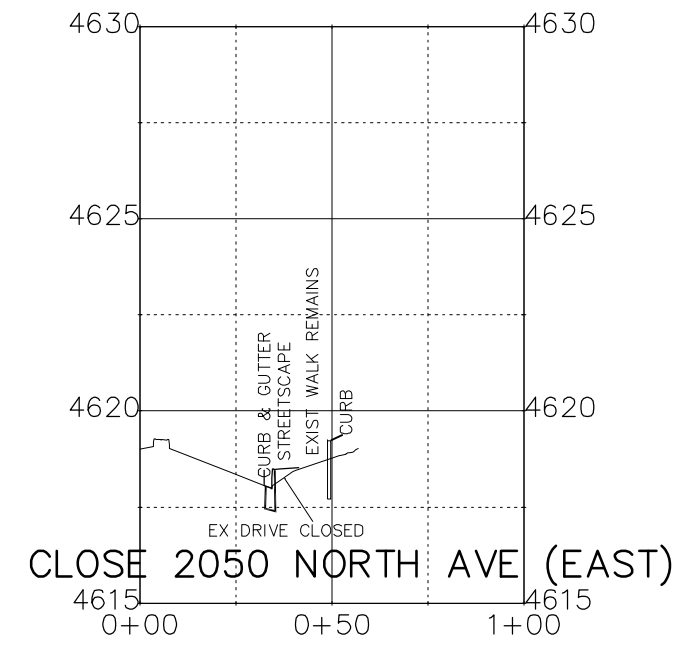
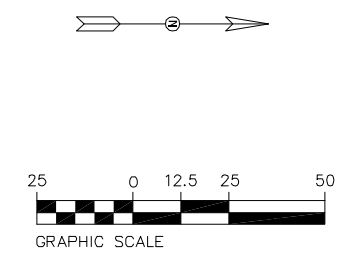
Project No./Code
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 Sheet Number **116**

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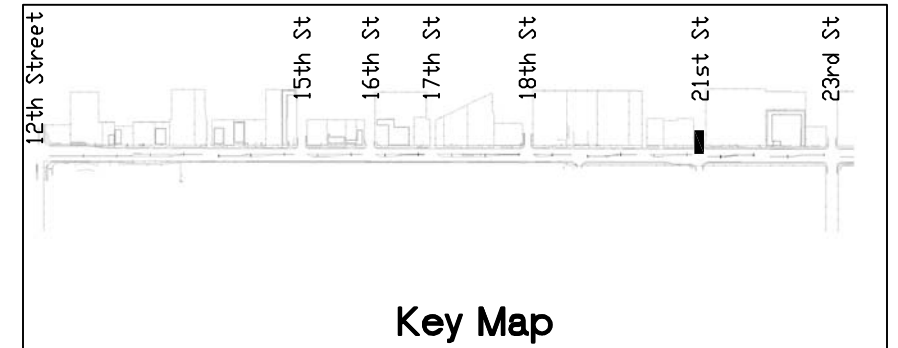


PLAN

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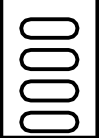


CLOSE 2050 NORTH AVE (EAST)



Key Map

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| Unit Information: City of GJ Unit Leader Initials: DPJ |



| Sheet Revisions | | |
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Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

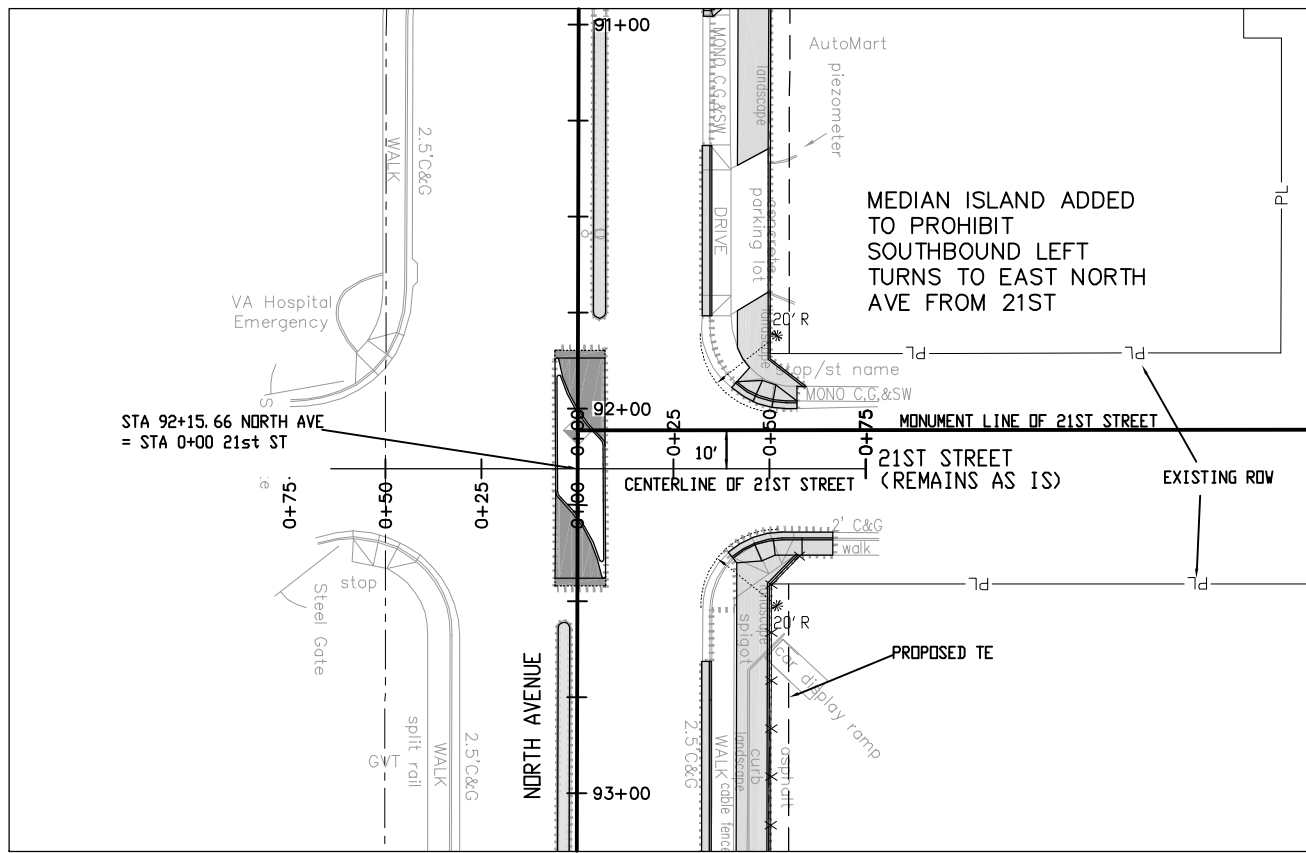
Region 3 RBB

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| Detailer: John Smith | |
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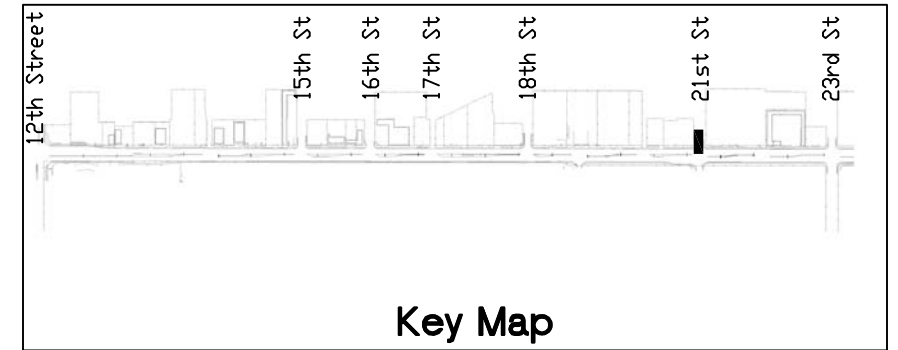
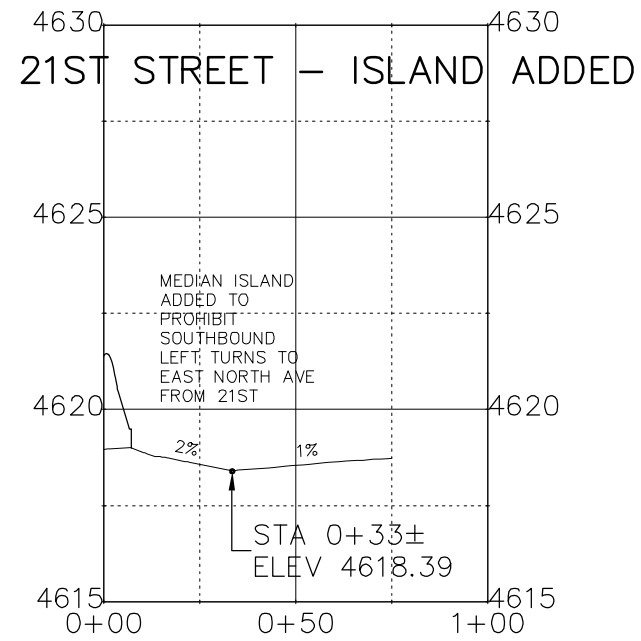
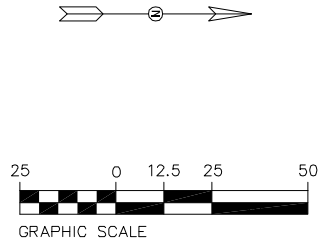
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 117 |

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PLAN

SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS




Key Map

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| Print Date: AT LEFT |
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| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Sheet Revisions | | |
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Colorado Department of Transportation



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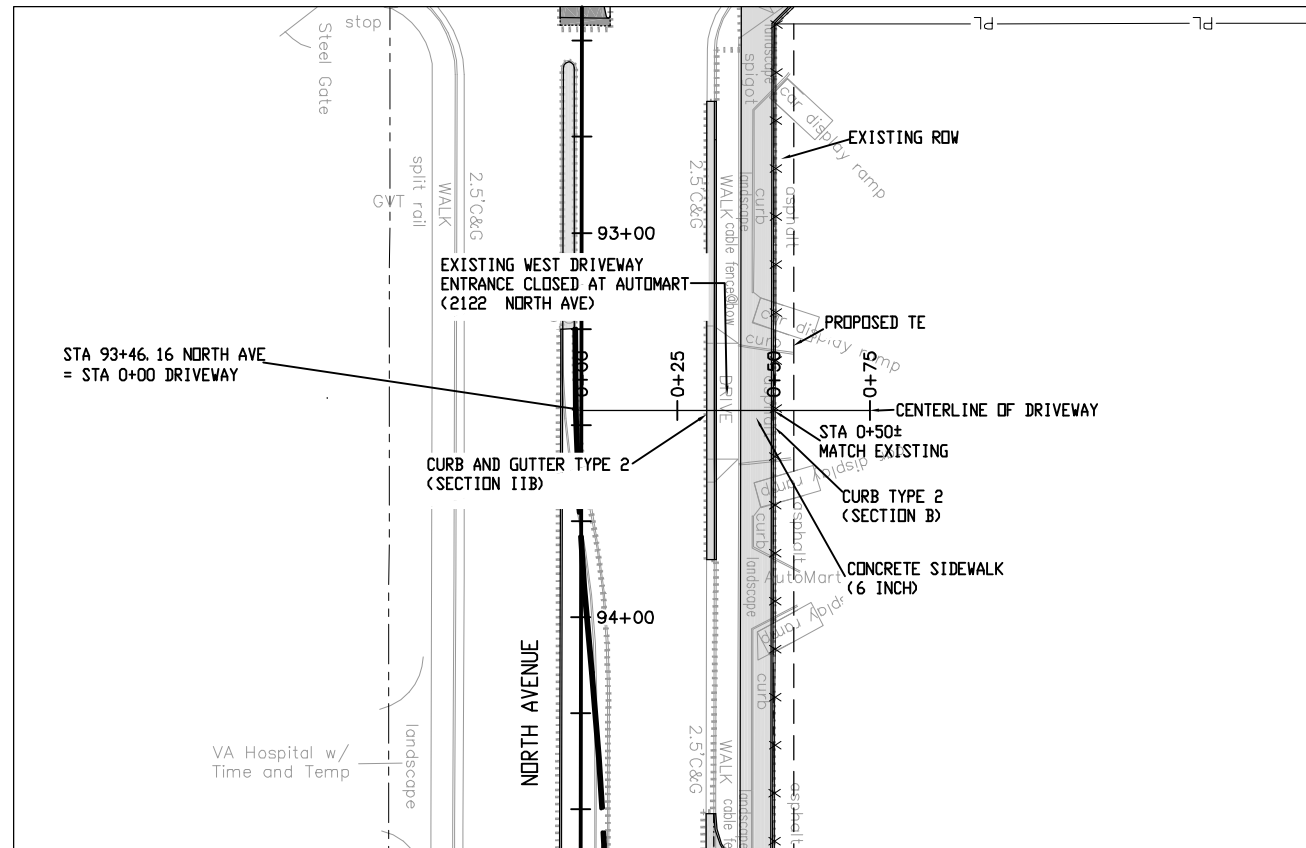
Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 33 of 42 |

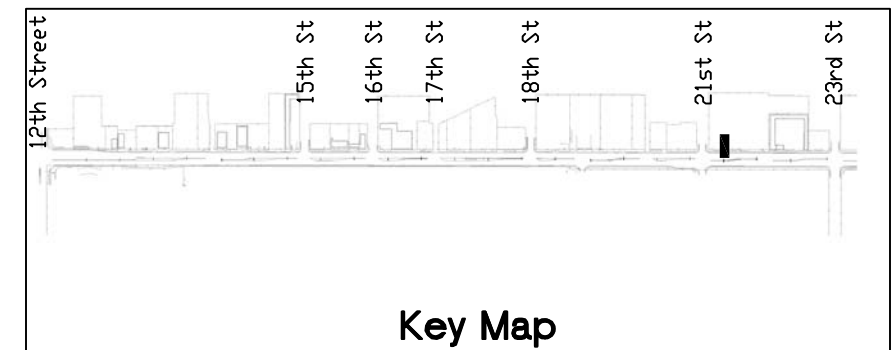
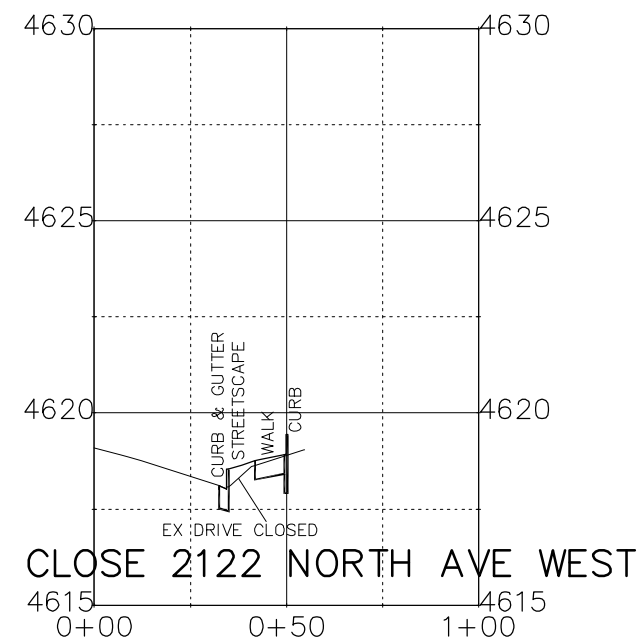
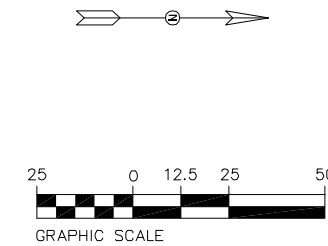
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 118 |

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PLAN

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Key Map

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| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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Colorado Department of Transportation

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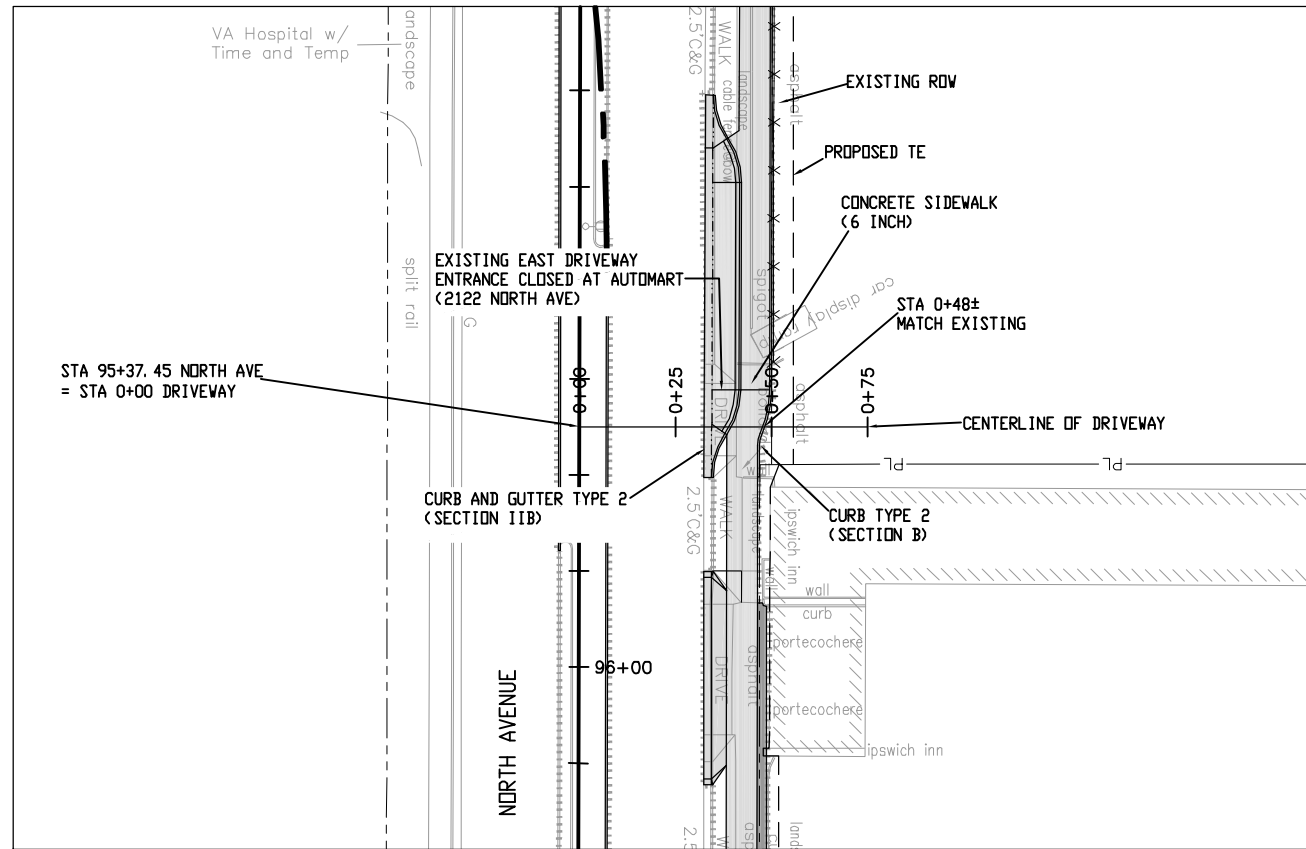
Region 3 RBB

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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 34 of 42 |

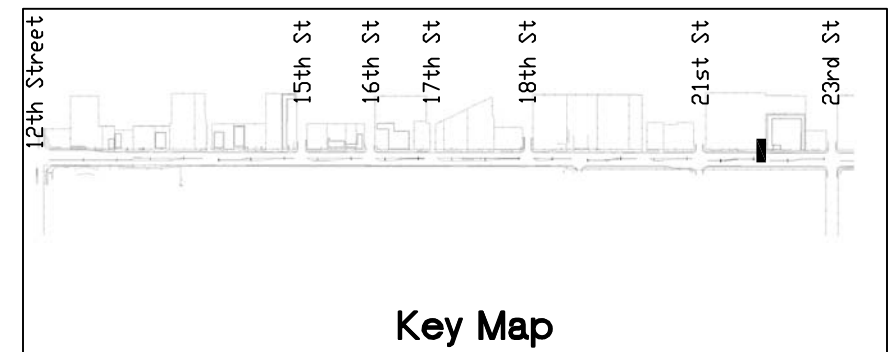
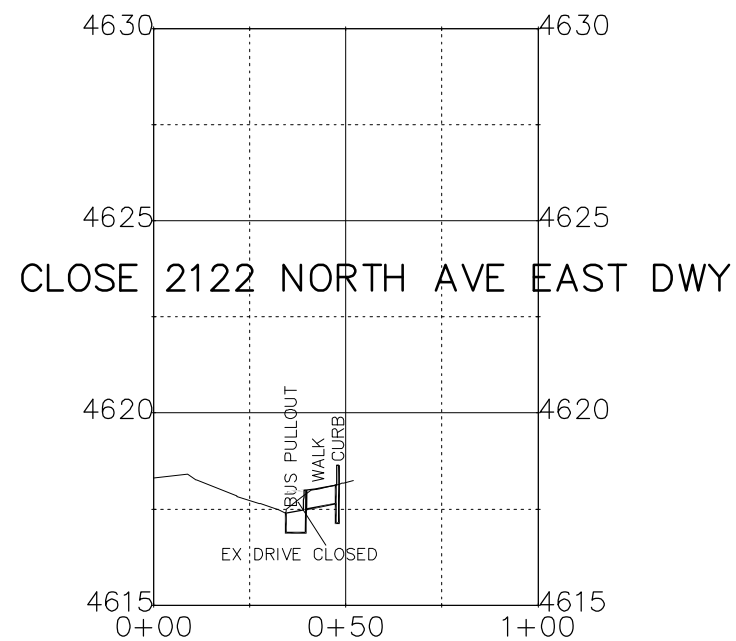
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 119 |

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Key Map

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| Print Date: AT LEFT |
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| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Sheet Revisions | | |
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Colorado Department of Transportation

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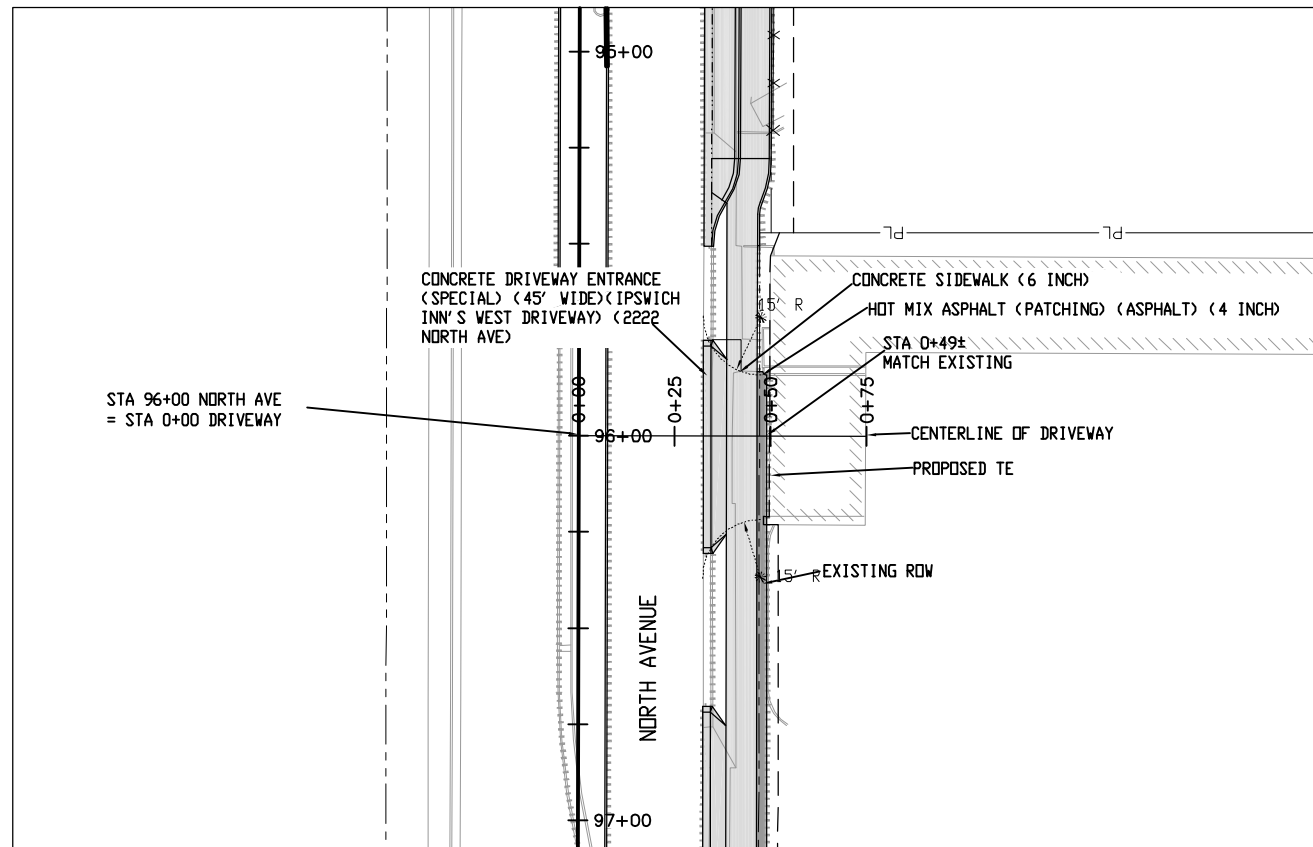
Region 3 RBB

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| Driveway Plans and Profiles | | |
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: dr pln pro | Subset Sheets: 35 of 42 | |

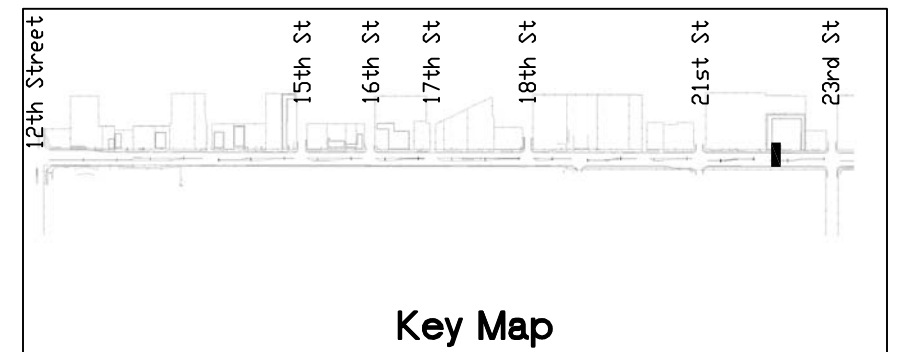
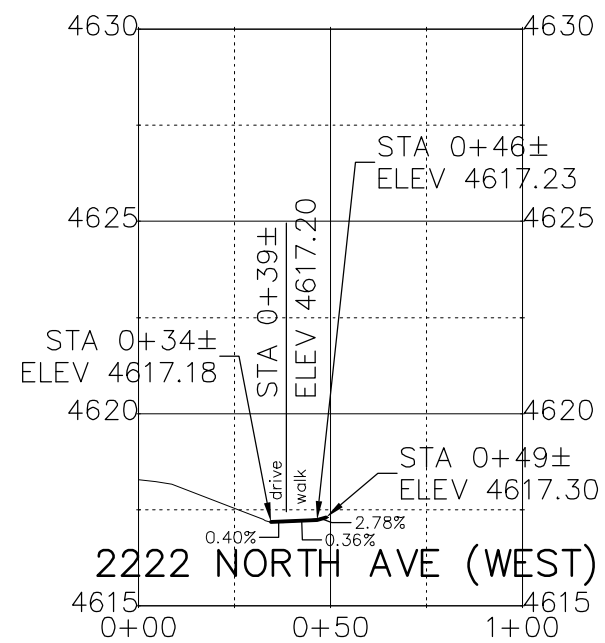
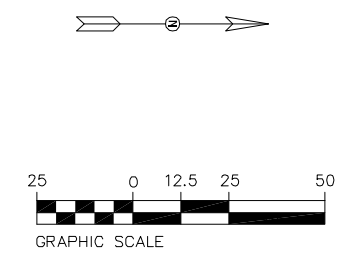
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 120 |

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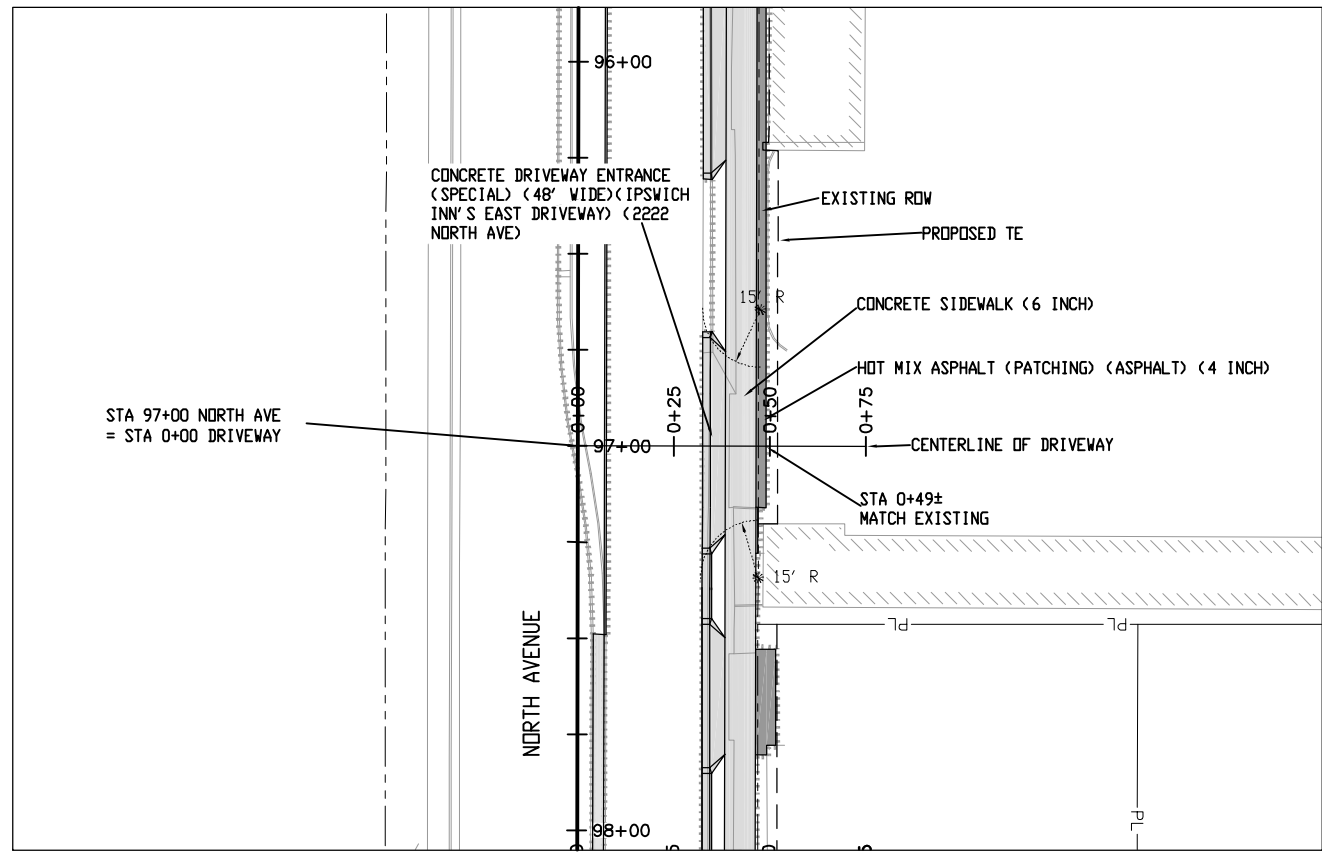
SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



Key Map

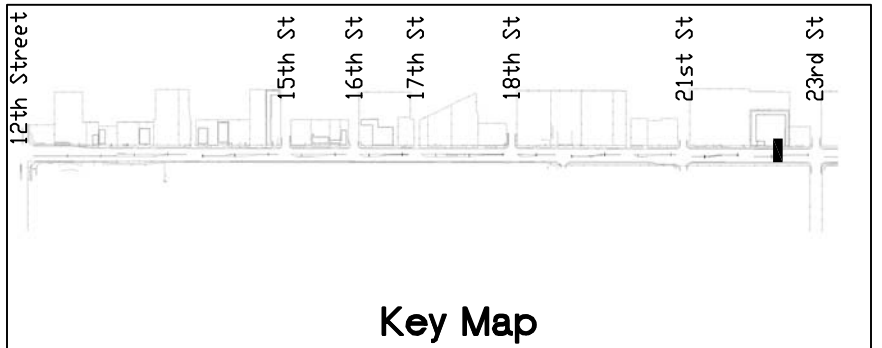
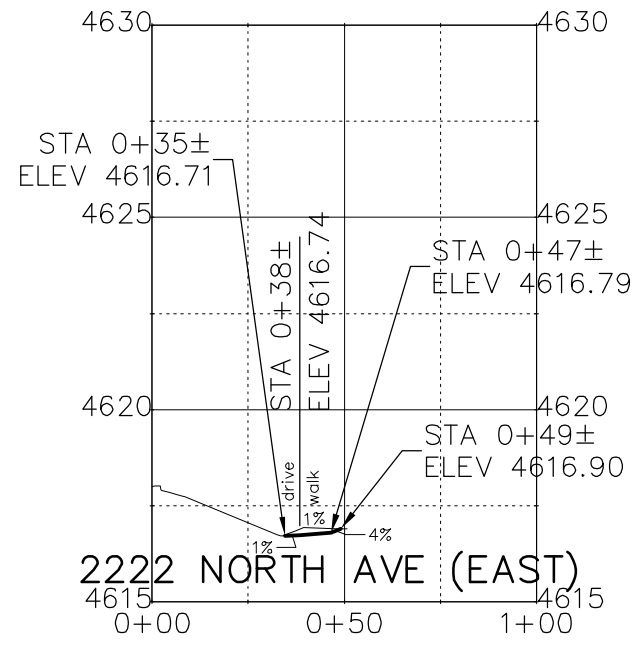
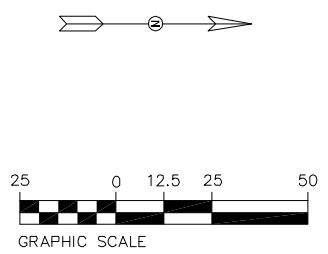
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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | | As Constructed | | Driveway Plans and Profiles | | | Project No./Code | | | |
| File Name: AT LEFT | | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | | No Revisions: | | Designer: John Smith Detailer: John Smith Sheet Subset: dr pln pro | | | TCSP M555-029 | | | |
| Horiz. Scale: 1:50 Vert. Scale: NA | | | | | | | | Revised: | | | | | Structure Numbers | | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | Void: | | | | | Subset Sheets: 36 of 42 | | Sheet Number 121 | |
| | | | | | Region 3 | | | | | | | | | | | |

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Key Map

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| Print Date: AT LEFT |
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| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
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Colorado Department of Transportation



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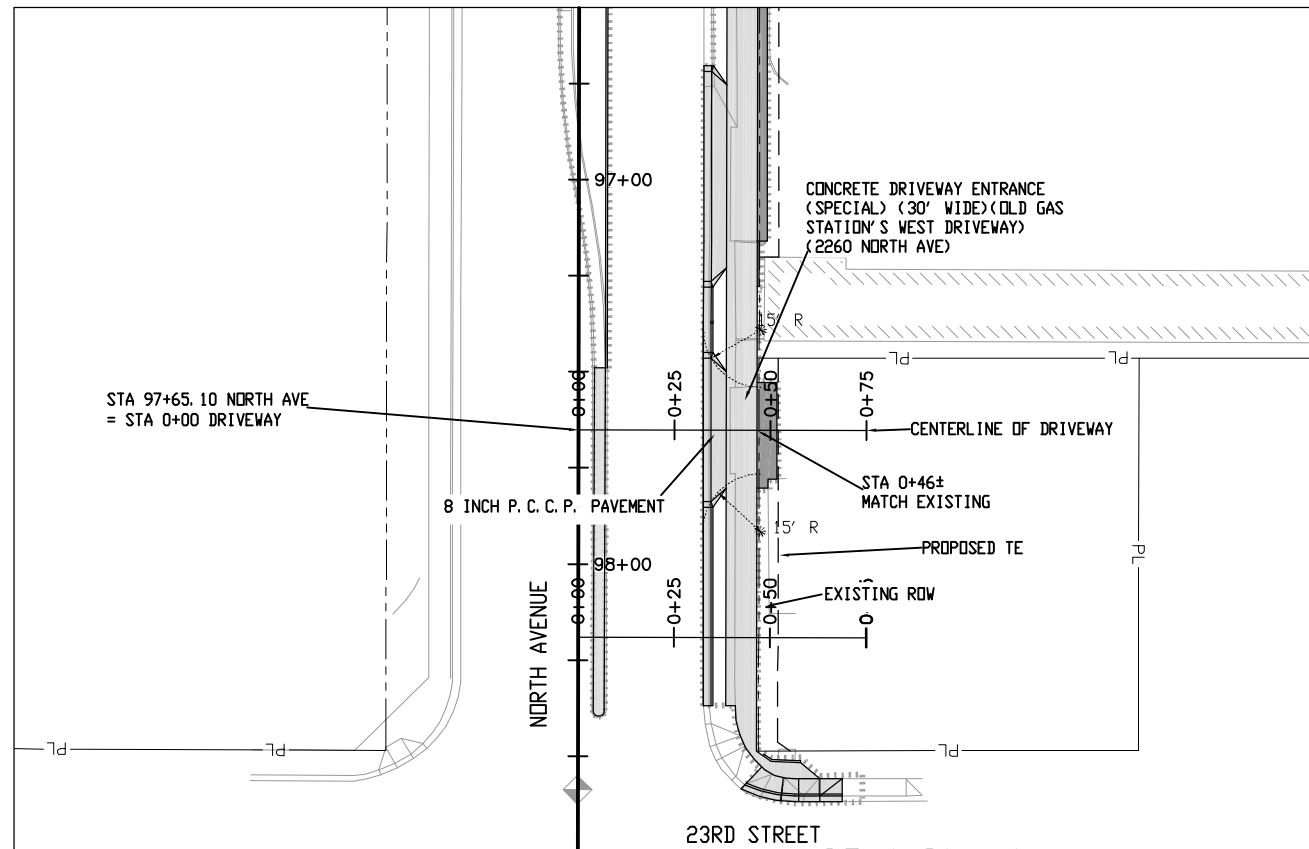
Region 3 RBB

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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 37 of 42 |

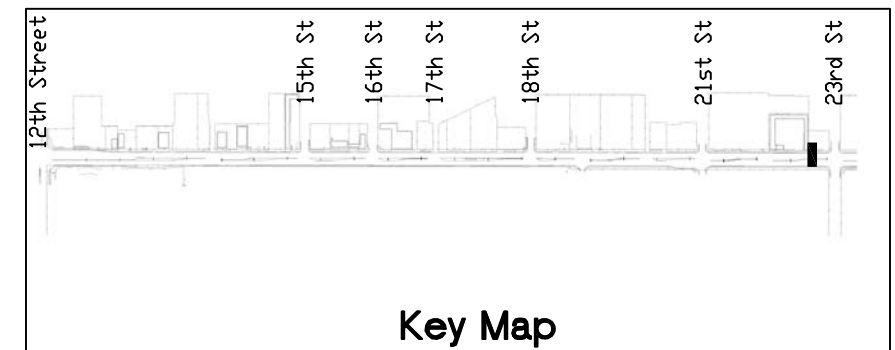
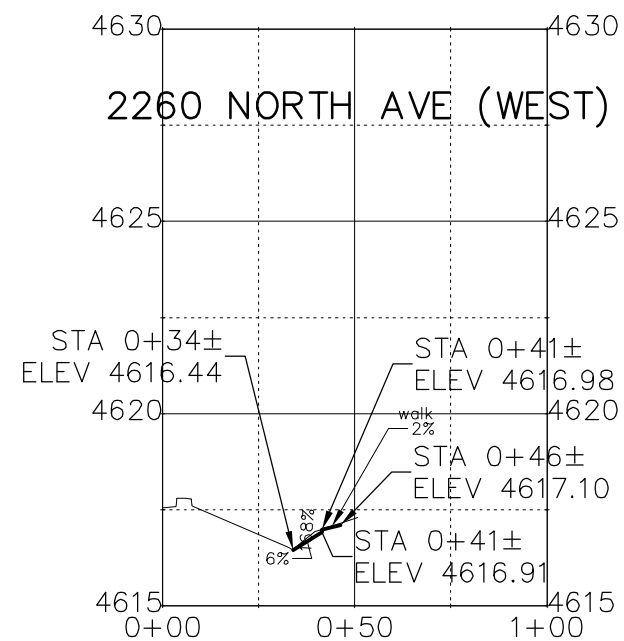
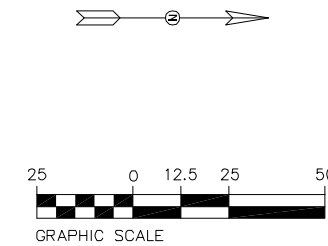
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 122 |

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SEE STAKING PLAN FOR STAKING DATA AND ELEVATIONS



Key Map

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 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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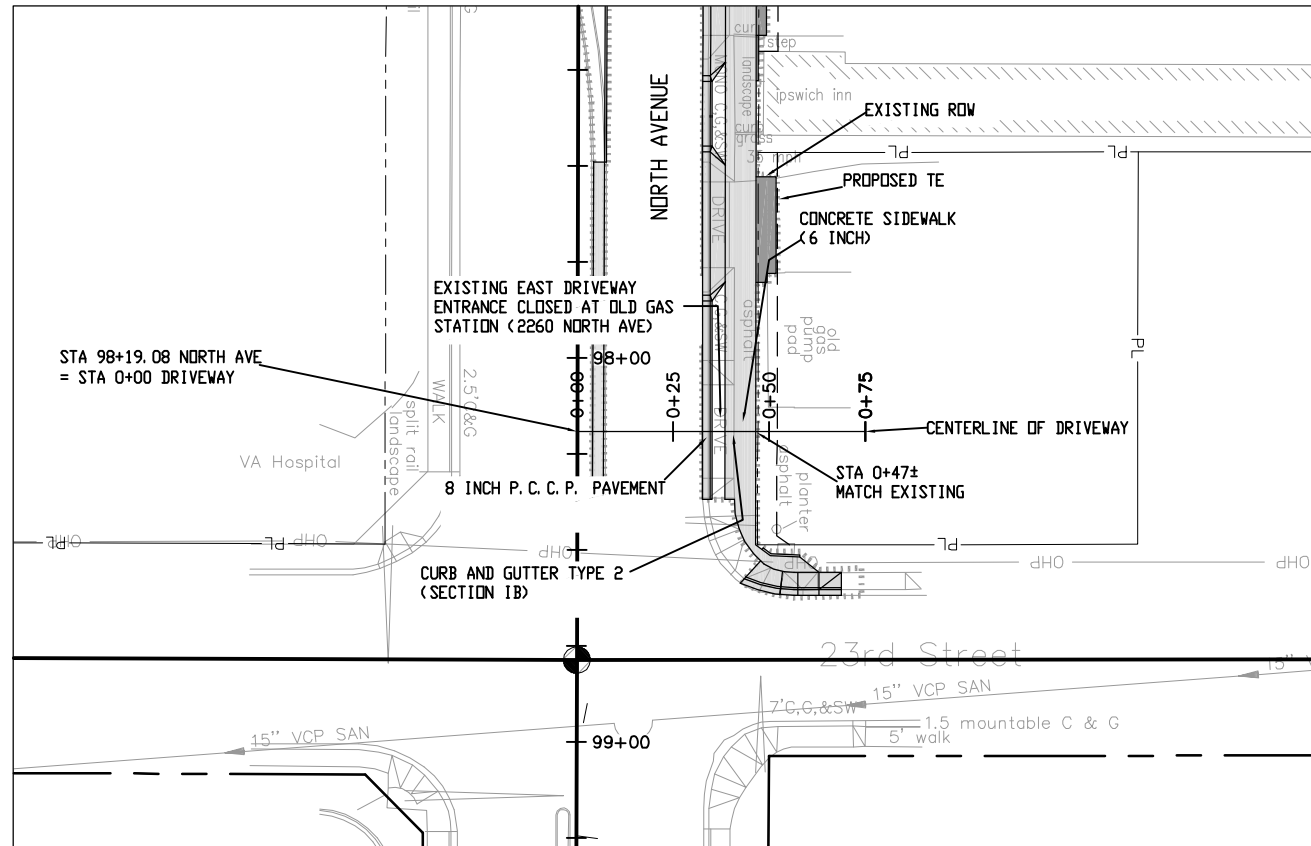
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
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Driveway Plans and Profiles
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 38 of 42

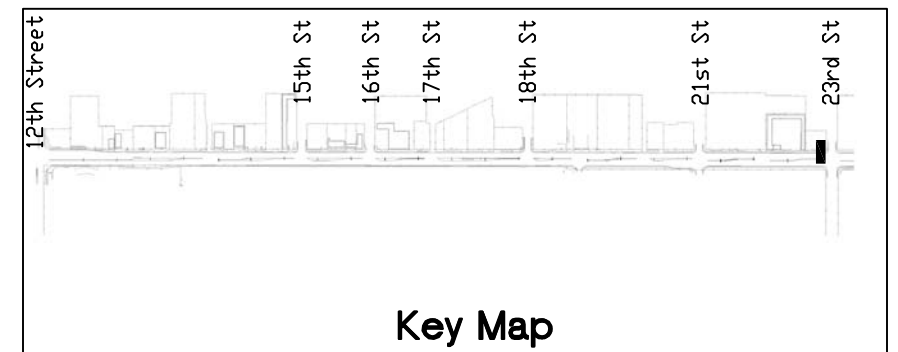
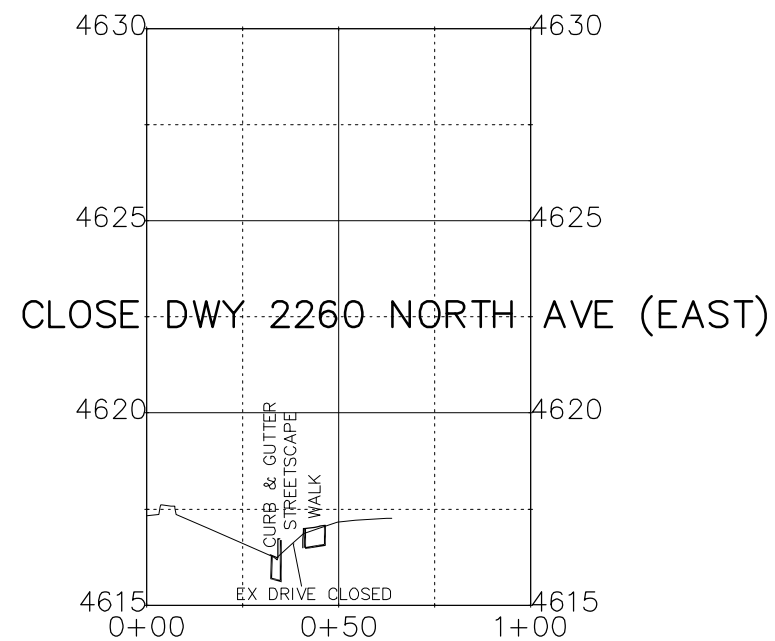
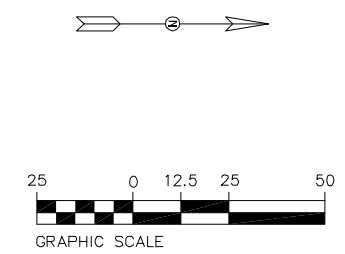
Project No./Code
 TCSP M555-029
 19365
 Sheet Number **123**

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Key Map

Print Date: AT LEFT
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 Horiz. Scale: 1:50 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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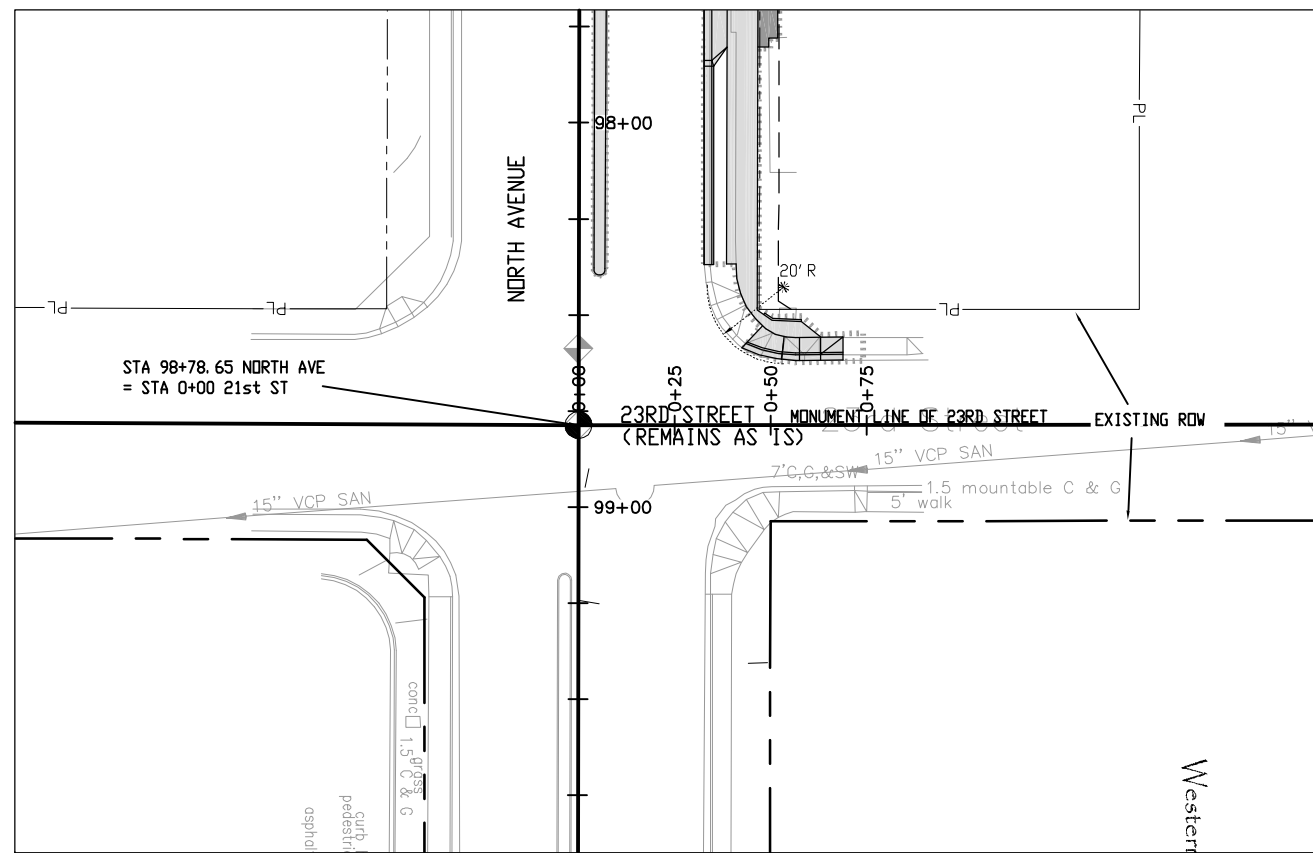
Colorado Department of Transportation

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 Region 3 RBB

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| As Constructed |
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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 39 of 42 |

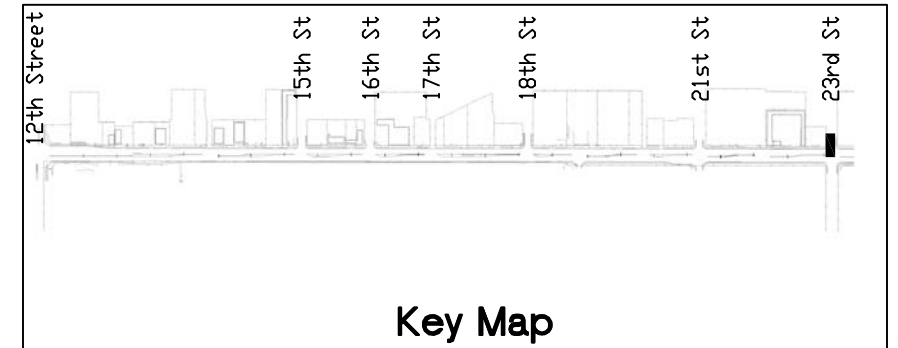
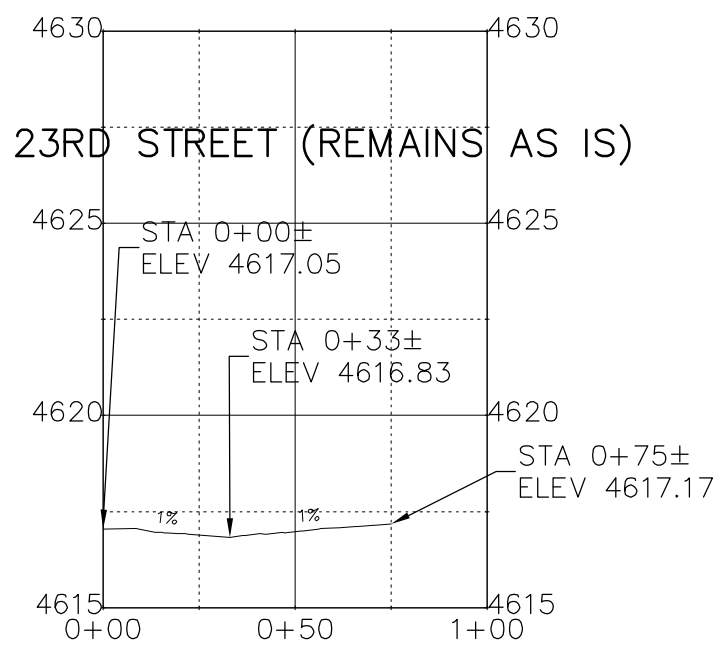
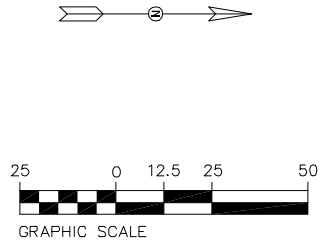
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| 19365 |
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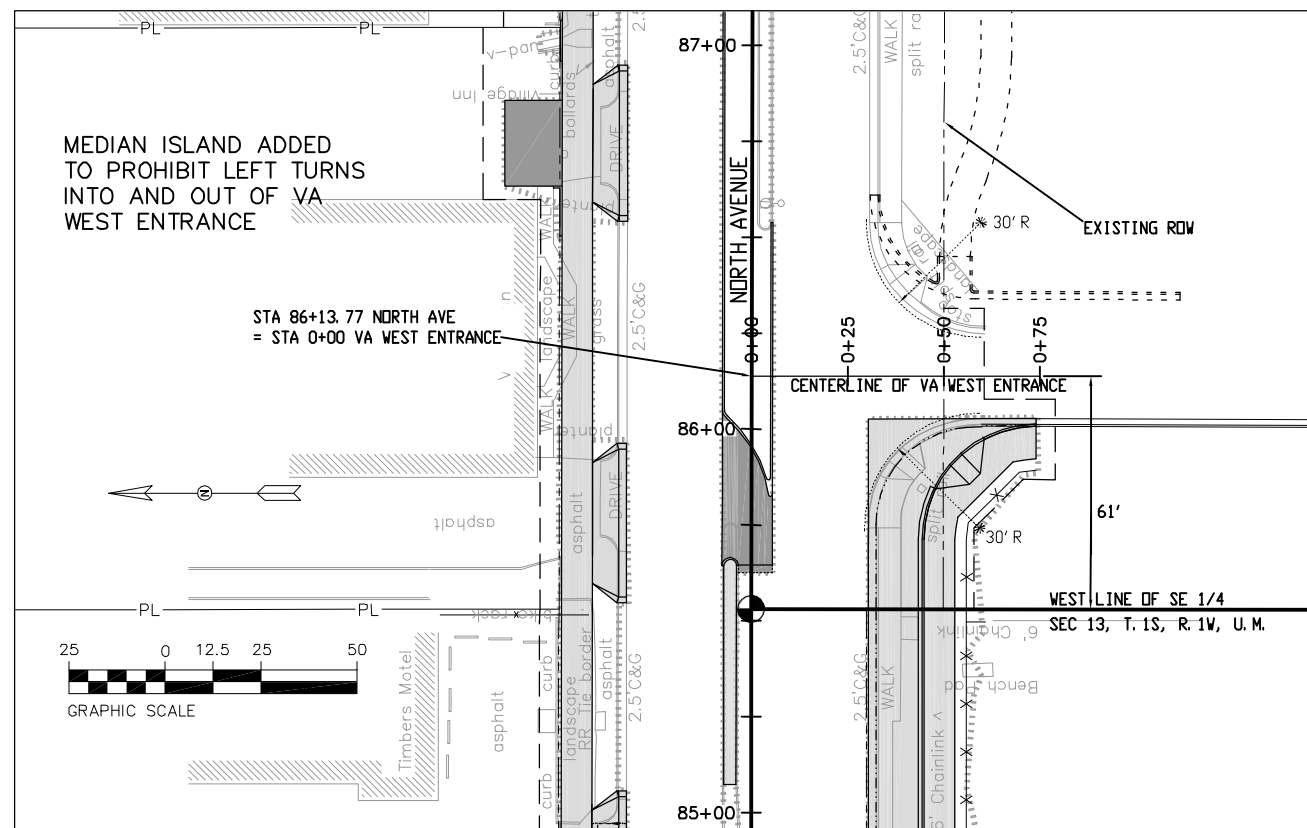
SEE STAKING PLAN FOR
STAKING DATA AND ELEVATIONS



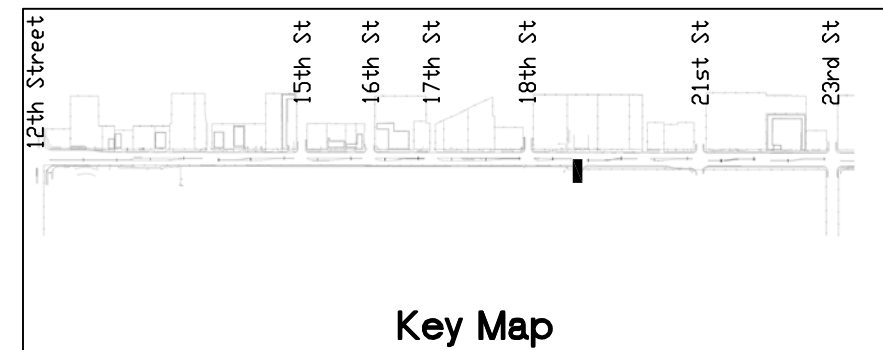
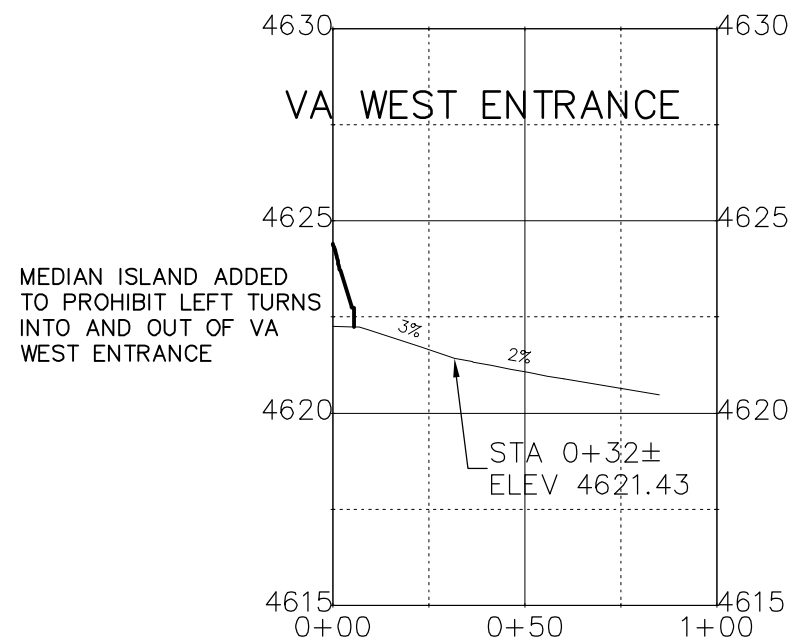
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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | As Constructed | | Driveway Plans and Profiles | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | | | TCSP M555-029 | | |
| Horiz. Scale: 1:50 Vert. Scale: NA | | | | | | Revised: | Designer: John Smith | Structure Numbers | 19365 | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | Subset Sheets: 40 of 42 | Sheet Number 125 | | |

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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Colorado Department of Transportation

 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

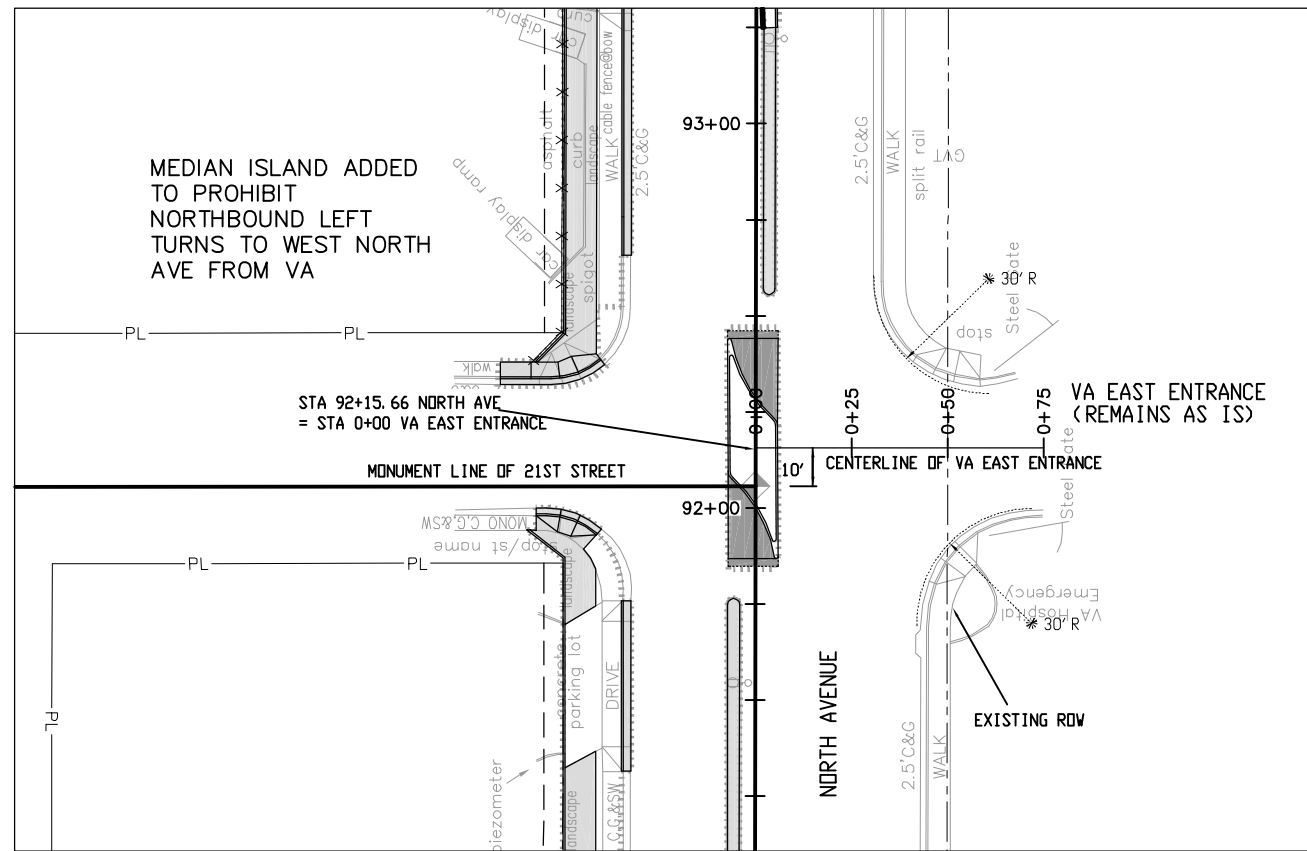
As Constructed
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Driveway Plans and Profiles

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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 41 of 42 |

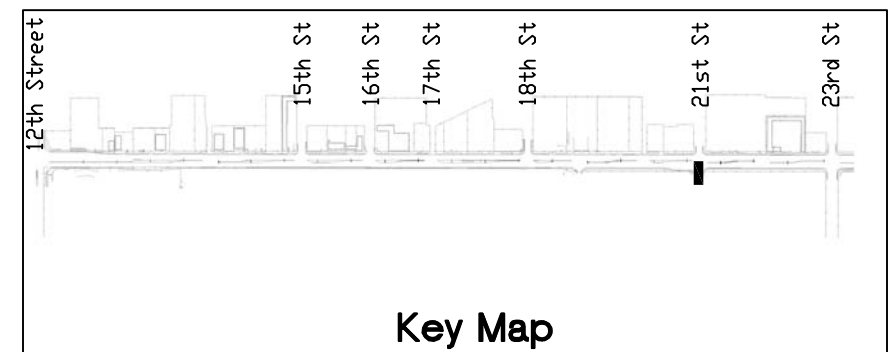
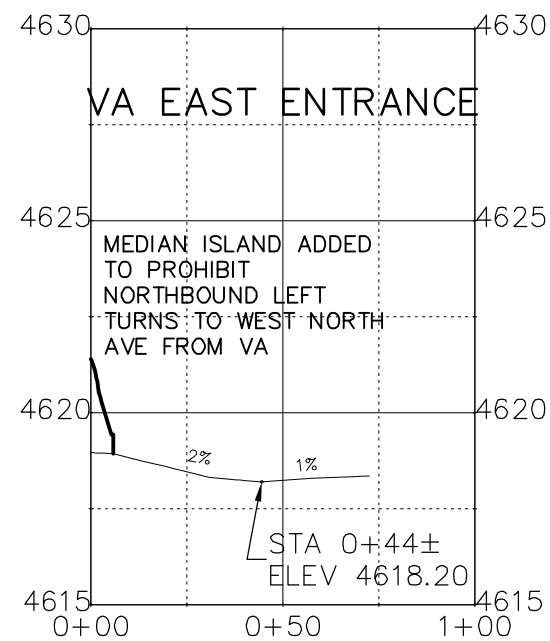
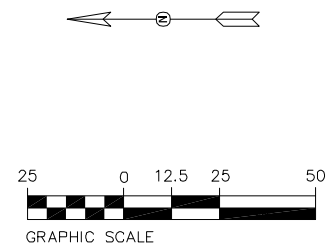
Project No./Code
 TCSP M555-029
 19365
 Sheet Number **126**

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Sheet Revisions | | |
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Colorado Department of Transportation

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Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
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| Driveway Plans and Profiles | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 42 of 42 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 127 |

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STA 75+93.75, 38.80 LT.
 N 39500.13
 E 96389.45
 CONNECT TO EXISTING INLET

REQ'D - 97' X 12' Concrete Pipe (A6)
 STA 75+93.75, 38.80' LT. TO
 STA 76+91.12, 38.05' LT.

STA 76+91.12, 38.05 LT.
 N 39499.30
 E 96486.81
 REQUIRED MANHOLE SLAB BASE (5 FOOT) (A5)

REQ'D - 11' X 8' PVC Pipe (A4)
 STA 76+91.12, 38.05' LT. TO
 STA 76+91.13, 48.63' LT.

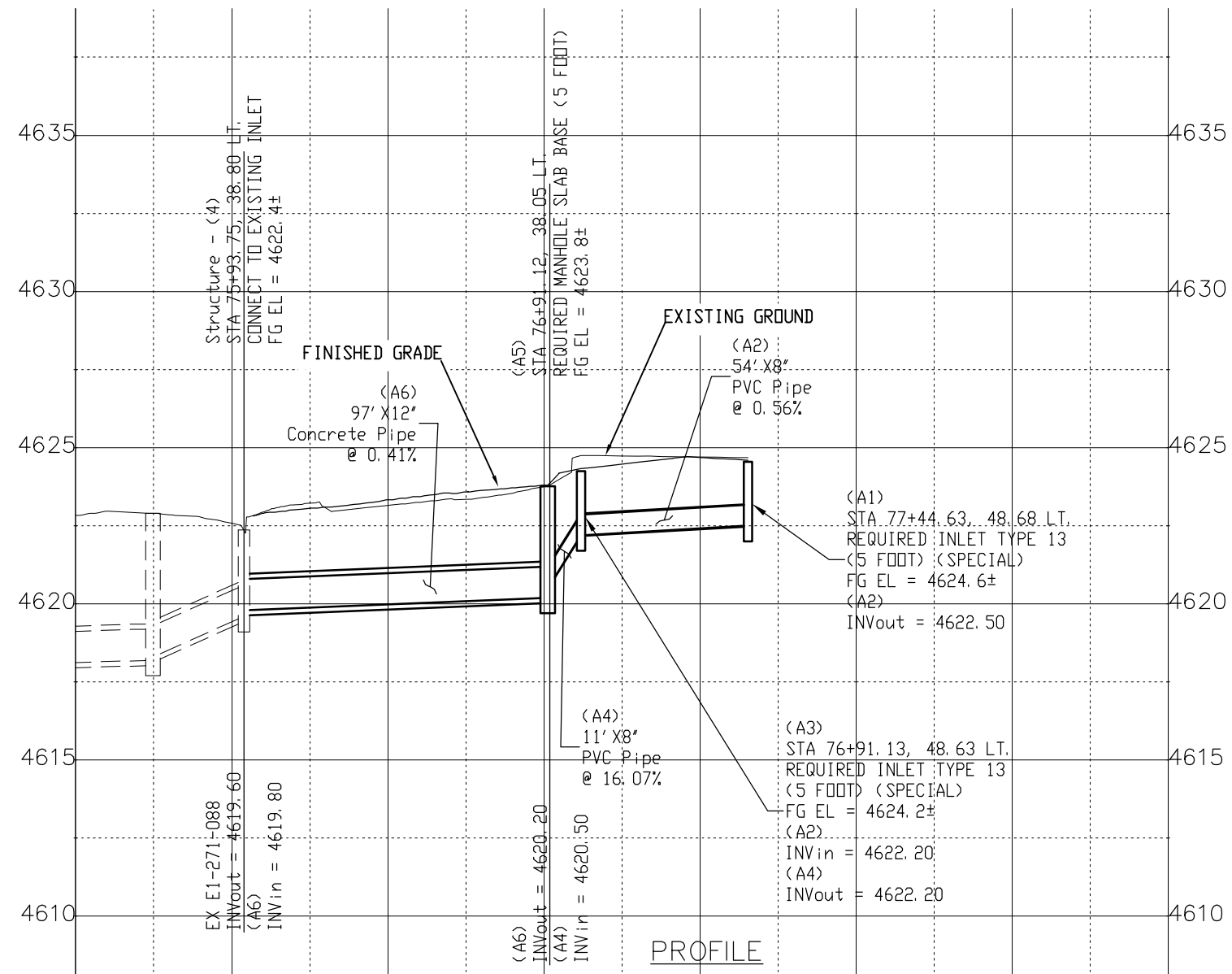
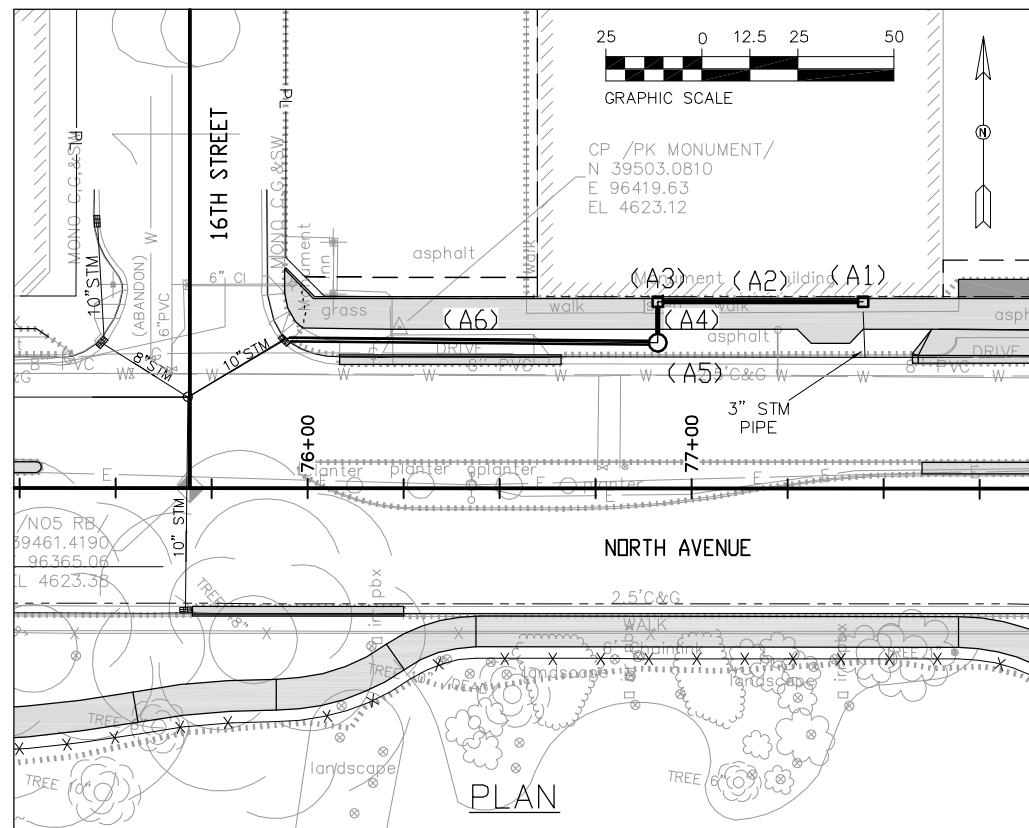
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 E 96486.83
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 (5 FOOT) (SPECIAL) (A3)

REQ'D - 54' X 8' PVC Pipe (A2)
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 STA 77+44.63, 48.68' LT.

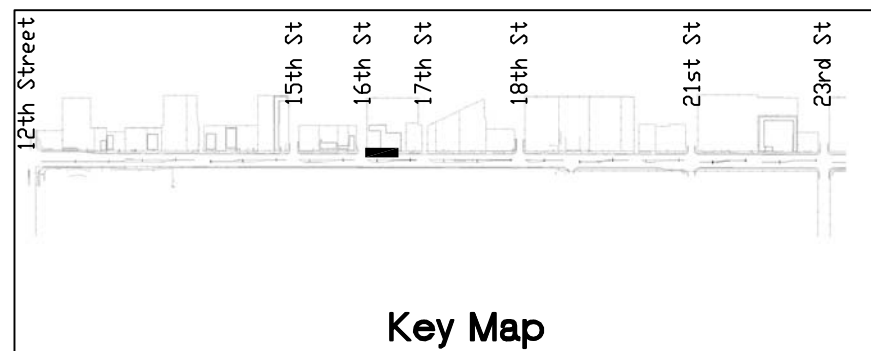
STA 77+44.63, 48.68 LT.
 N 39509.89
 E 96540.33
 REQUIRED INLET TYPE 13
 (5 FOOT) (SPECIAL) (A1)

NOTE:
 COORDINATES SHOWN ARE TO CENTER OF
 STRUCTURE

NOTE:
 THE INFORMATION SHOWN ON THIS
 DRAWING CONCERNING TYPE AND
 LOCATION OF UNDERGROUND UTILITIES
 IS NOT GUARANTEED TO BE ACCURATE
 OR ALL INCLUSIVE. THE CONTRACTOR
 IS RESPONSIBLE FOR MAKING ALL
 DETERMINATIONS AS TO THE TYPE AND
 LOCATION OF UNDERGROUND AND OTHER
 UTILITIES AS MAY BE NECESSARY TO
 AVOID DAMAGE THERETO.



Know what's below.
 Call before you dig.



Print Date: AT LEFT
 File Name: AT LEFT
 Horiz. Scale: 1:50
 Vert. Scale: NA
 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation
 Region 3
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Storm Drain Plan and Profile
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset: dr pln pro
 Structure Numbers
 Subset Sheets: 1 of 4

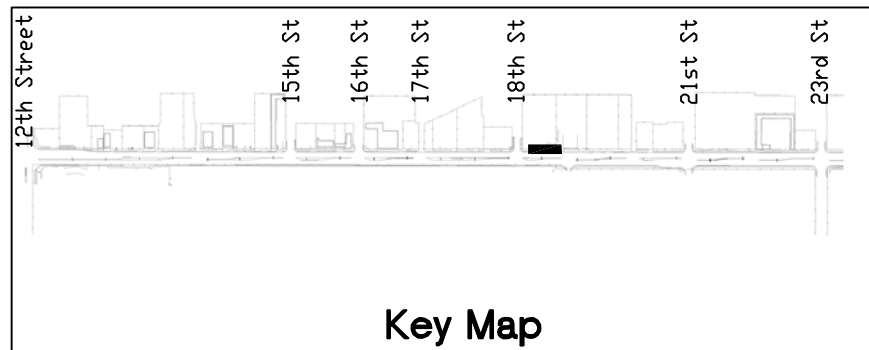
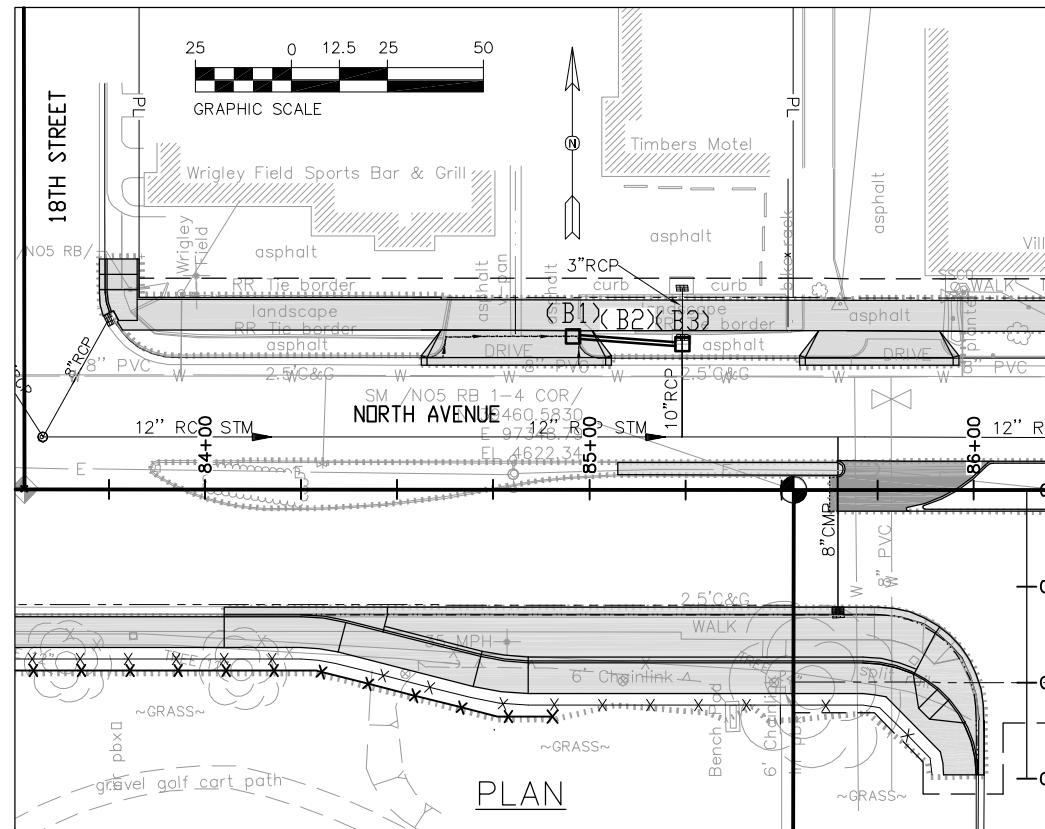
Project No./Code
 TCSP M555-029
 19365
 Sheet Number 128

N:\Cadd\John Smith\Projects\NORTH AVE\ACAD Drawings\roadway plans with city std dwy cuts.dwg, 8/20/2015 3:27:34 PM

STA 84+95.65, 39.85 LT.
 N 39500.47
 E 97291.34
 REQUIRED INLET TYPE C (5 FOOT) (B1)

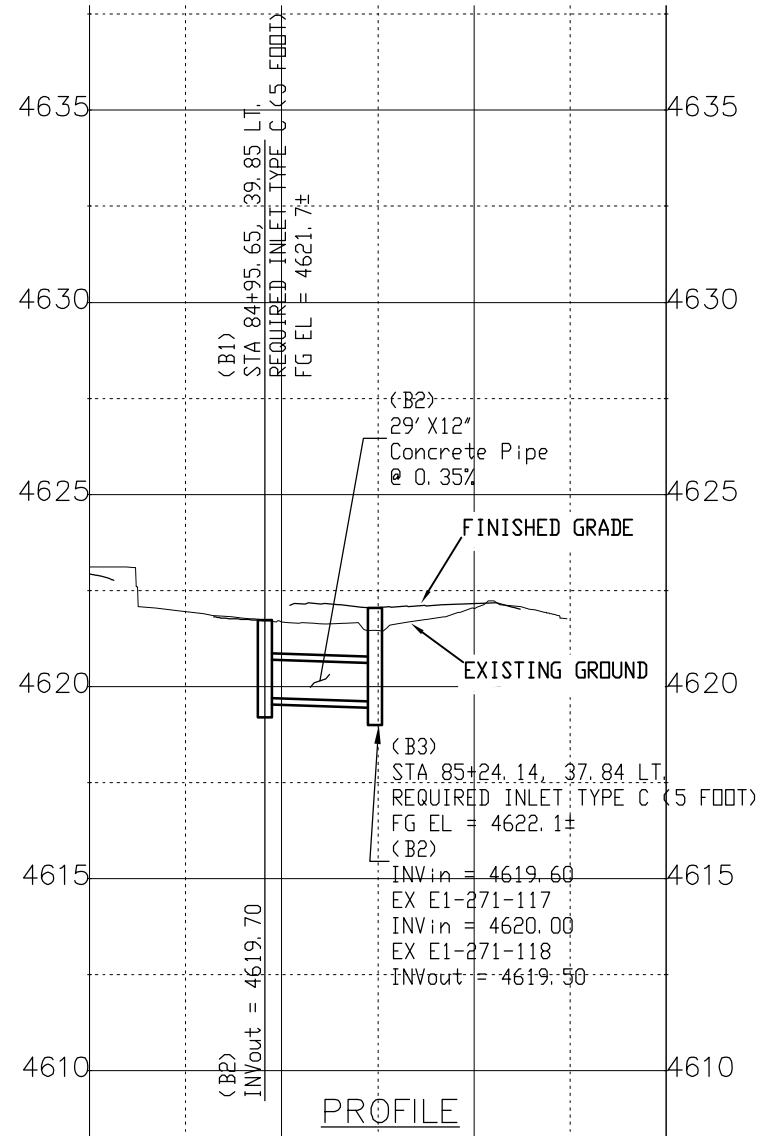
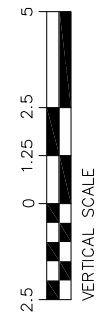
REQ'D - 29" X 12' Concrete Pipe (B2)
 STA 84+95.65, 39.85' LT. TD
 STA 85+24.14, 37.84' LT.

STA 85+24.14, 37.84 LT.
 N 39498.44
 E 97319.83
 REQUIRED INLET TYPE C (5 FOOT) (B3)



NOTE:
 COORDINATES SHOWN ARE TO CENTER OF
 STRUCTURE

NOTE:
 THE INFORMATION SHOWN ON THIS
 DRAWING CONCERNING TYPE AND
 LOCATION OF UNDERGROUND UTILITIES
 IS NOT GUARANTEED TO BE ACCURATE
 OR ALL INCLUSIVE. THE CONTRACTOR
 IS RESPONSIBLE FOR MAKING ALL
 DETERMINATIONS AS TO THE TYPE AND
 LOCATION OF UNDERGROUND AND OTHER
 UTILITIES AS MAY BE NECESSARY TO
 AVOID DAMAGE THERETO.



Know what's below.
 Call before you dig.

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation



606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3

RBB

As Constructed

No Revisions:

Revised:

Void:

Storm Drain Plan and Profile

Designer: John Smith
 Detailer: John Smith
 Sheet Subset: dr pln pro Subset Sheets: 2 of 4

Project No./Code

TCSP M555-029

19365

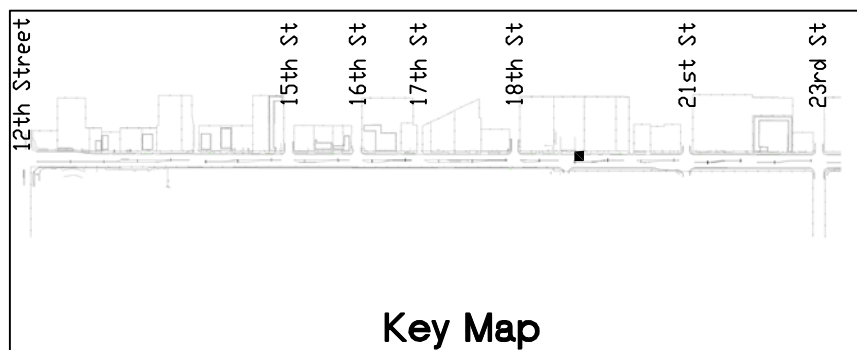
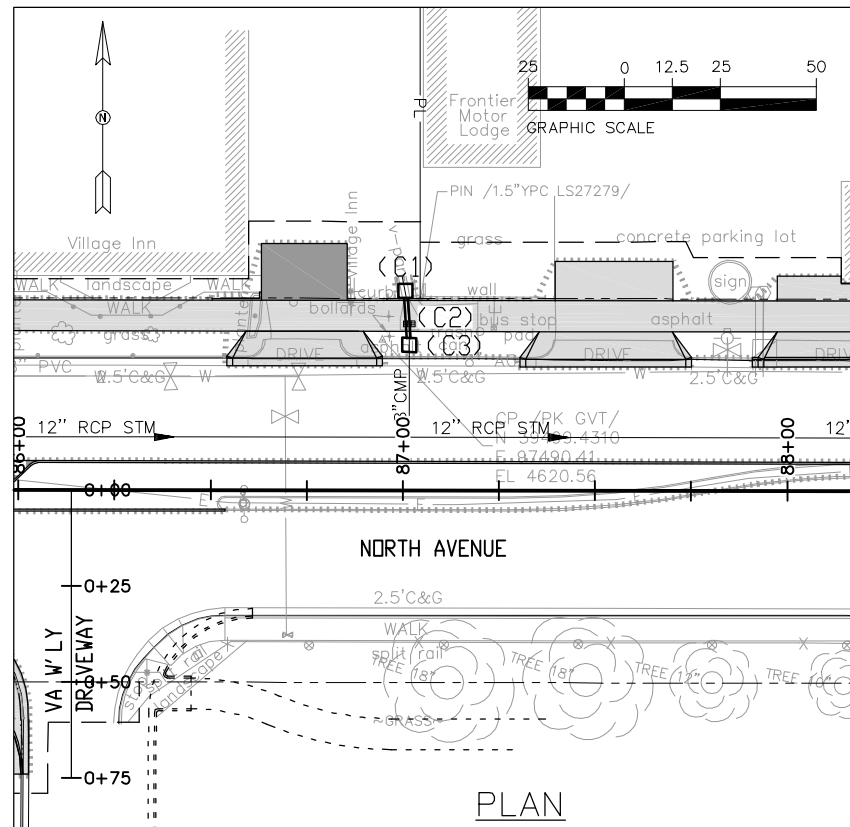
Sheet Number 129

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STA 87+00.54, 51.97 LT.
 N 39512.27
 E 97496.30
 INLET TYPE C (5 FOOT) (C1)

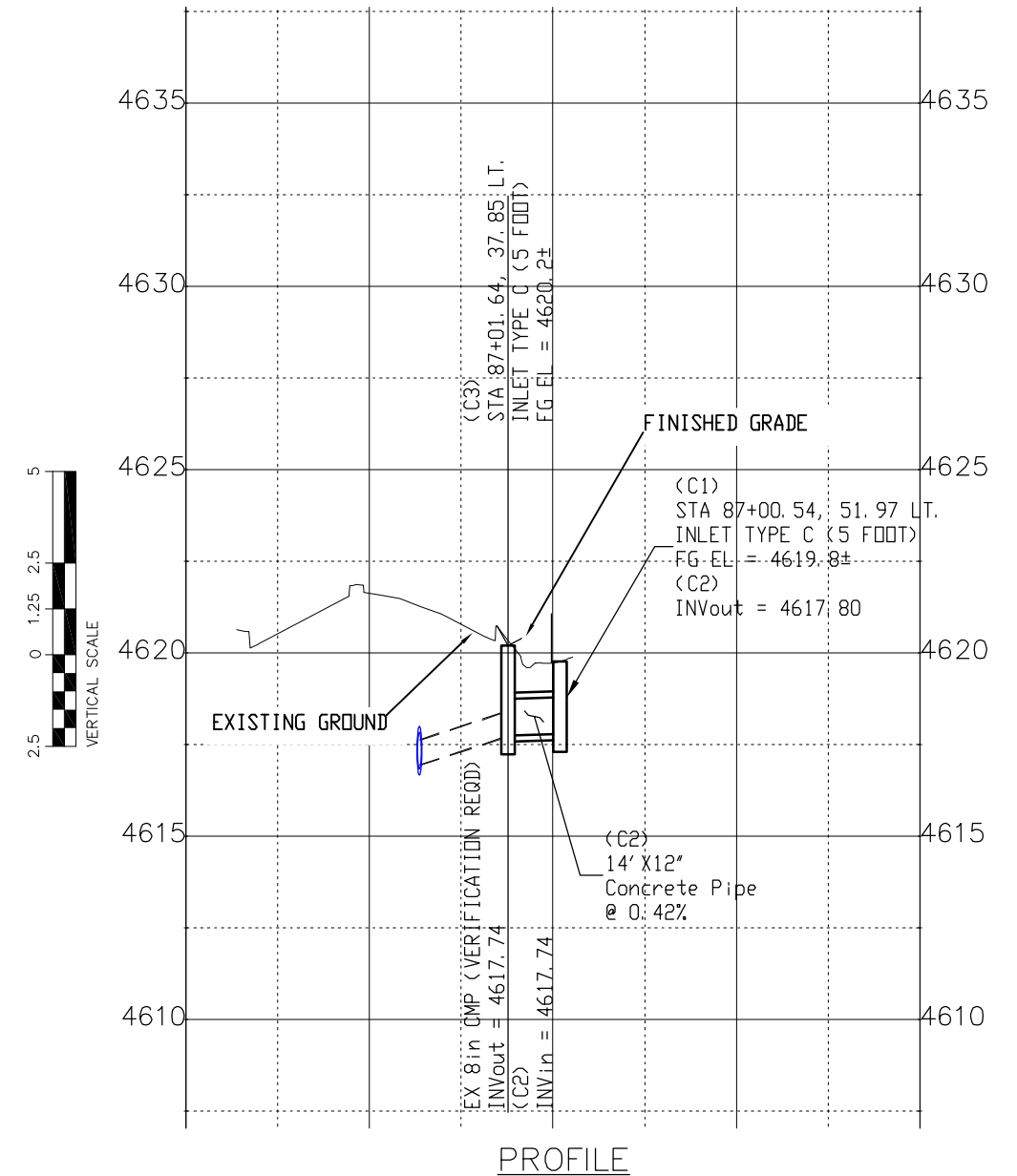
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 STA 87+01.64, 37.85' LT.

STA 87+01.64, 37.85 LT.
 N 39498.14
 E 97497.37
 INLET TYPE C (5 FOOT) (C3)



NOTE:
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Know what's below.
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 Unit Information: City of GJ Unit Leader Initials: DPJ

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Region 3

RBB

As Constructed

No Revisions:

Revised:

Void:

Storm Drain Plan and Profile

Designer: John Smith
 Detailer: John Smith
 Sheet Subset: dr pln pro
 Structure Numbers
 Subset Sheets: 3 of 4

Project No./Code

TCSP M555-029

19365

Sheet Number 130

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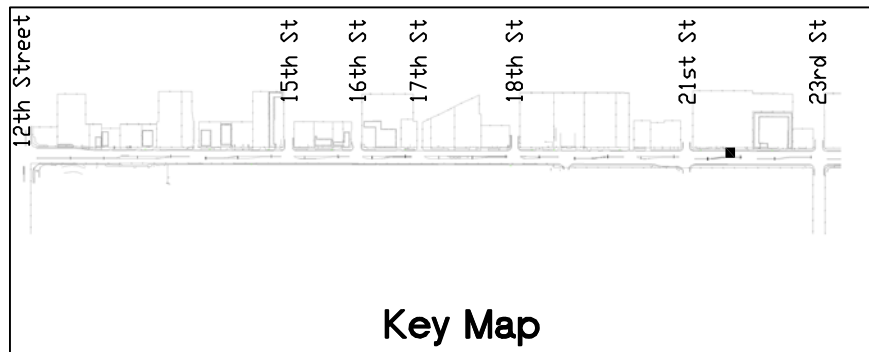
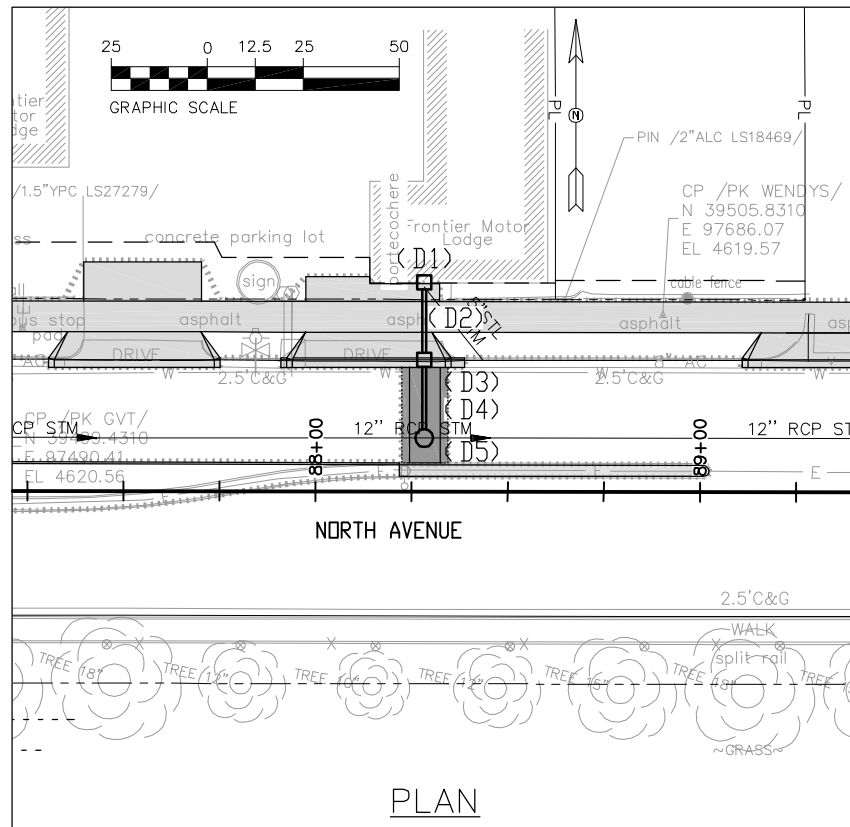
STA 88+28.19, 54.44 LT.
 N 39514.48
 E 97623.95
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STA 88+28.23, 34.34 LT.
 N 39494.39
 E 97623.95
 INLET TYPE C (5 FOOT) (D3)

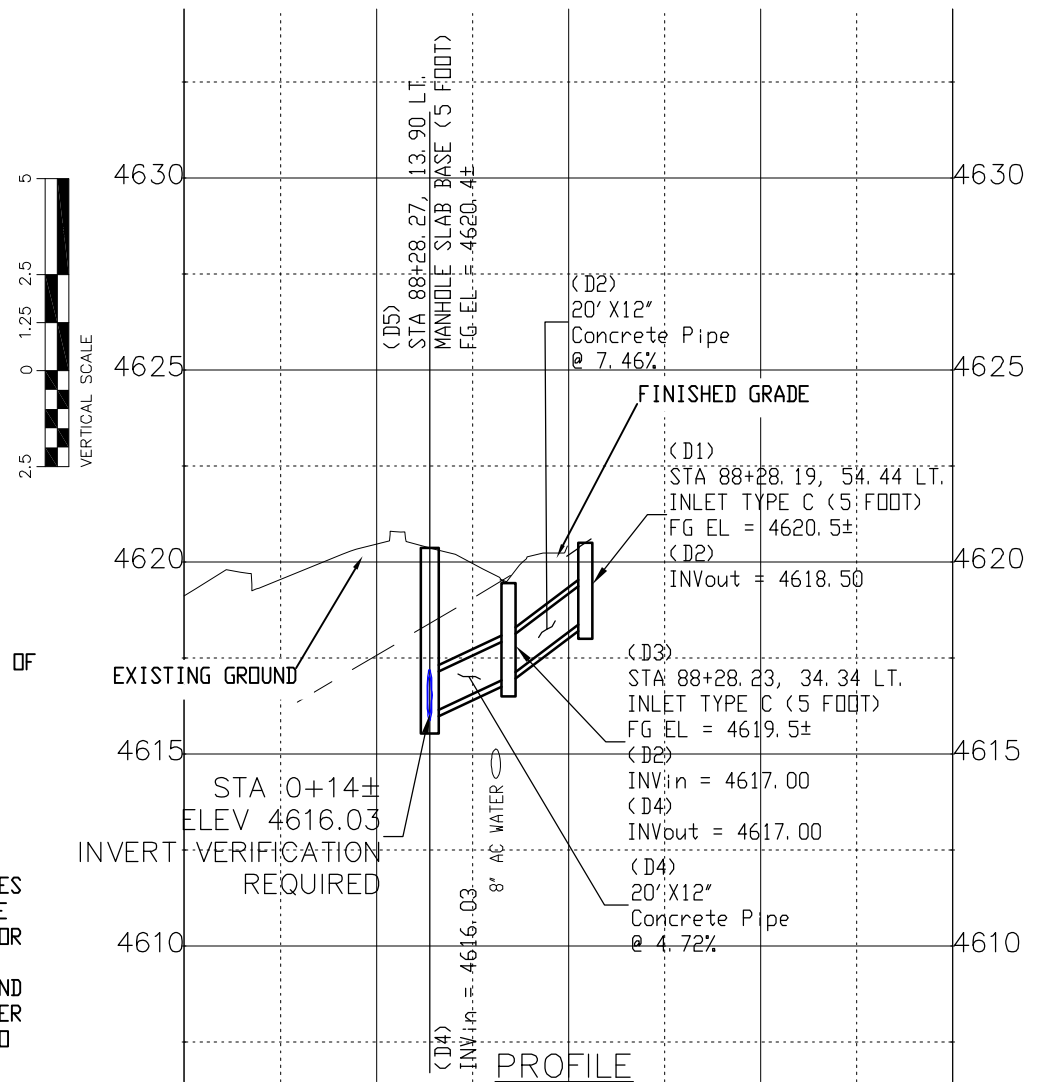
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 STA 88+28.27, 13.90' LT.

STA 88+28.27, 13.90 LT.
 N 39473.95
 E 97623.95
 MANHOLE SLAB BASE (5 FOOT) (D5)



NOTE:
 COORDINATES SHOWN ARE TO CENTER OF STRUCTURE

NOTE:
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| Unit Information: City of GJ Unit Leader Initials: DPJ | |

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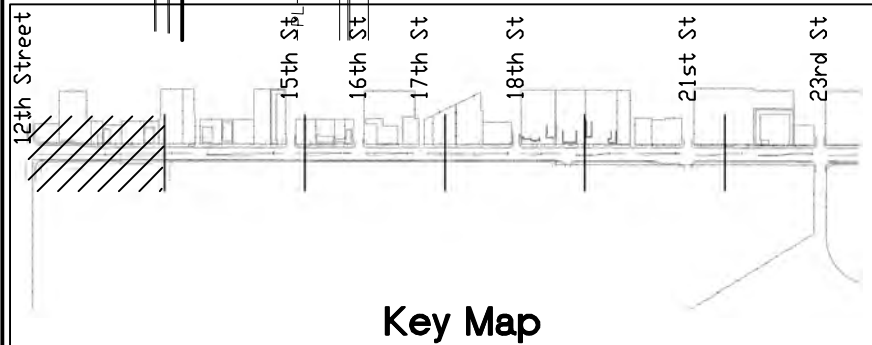
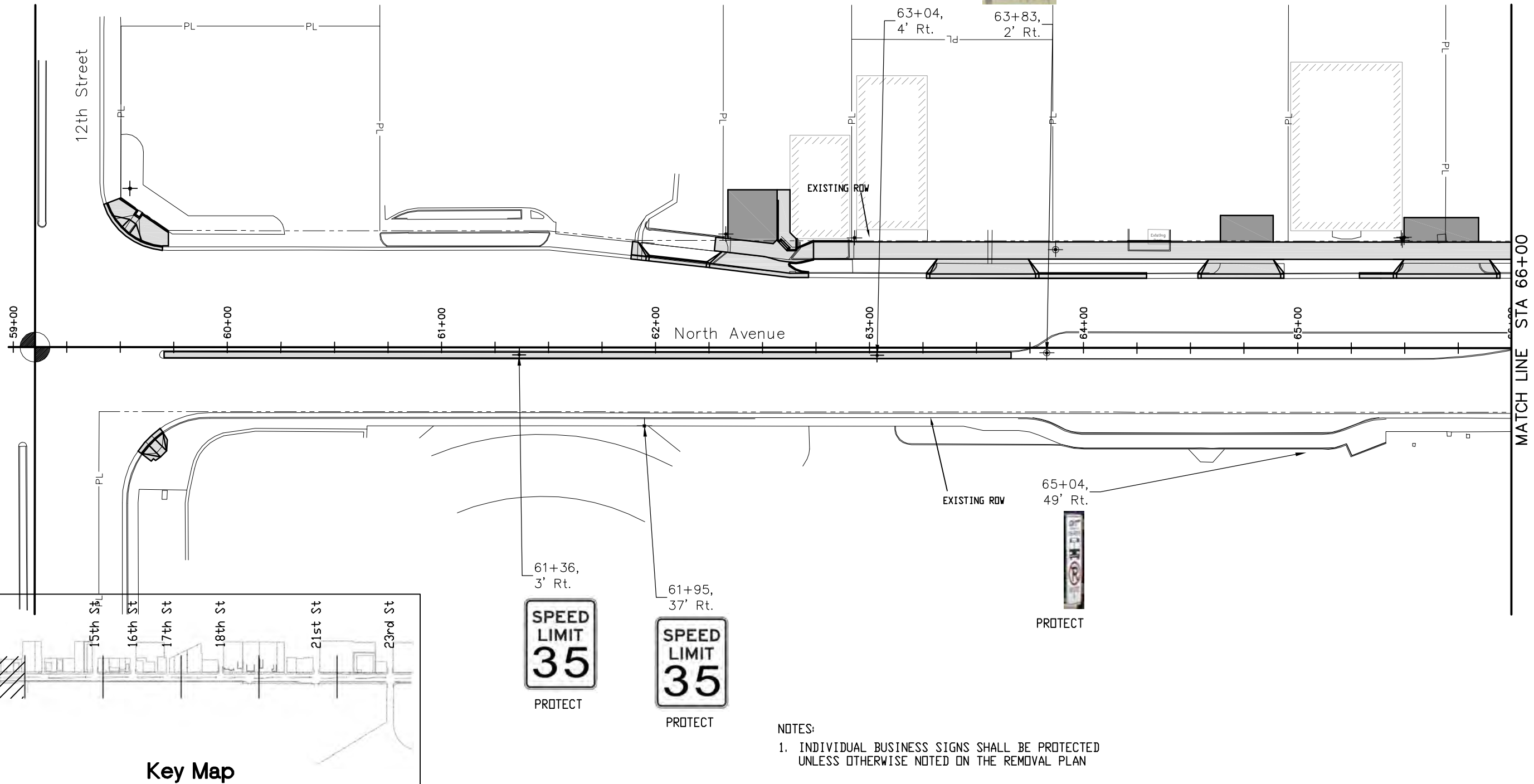
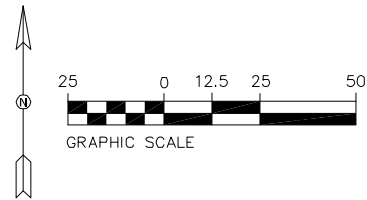
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| Storm Drain Plan and Profile | |
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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: dr pln pro | Subset Sheets: 4 of 4 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 131 |

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NOTES:
 1. INDIVIDUAL BUSINESS SIGNS SHALL BE PROTECTED UNLESS OTHERWISE NOTED ON THE REMOVAL PLAN

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| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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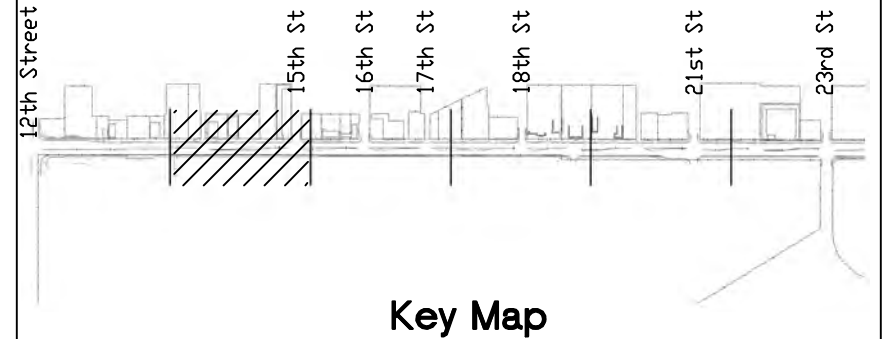
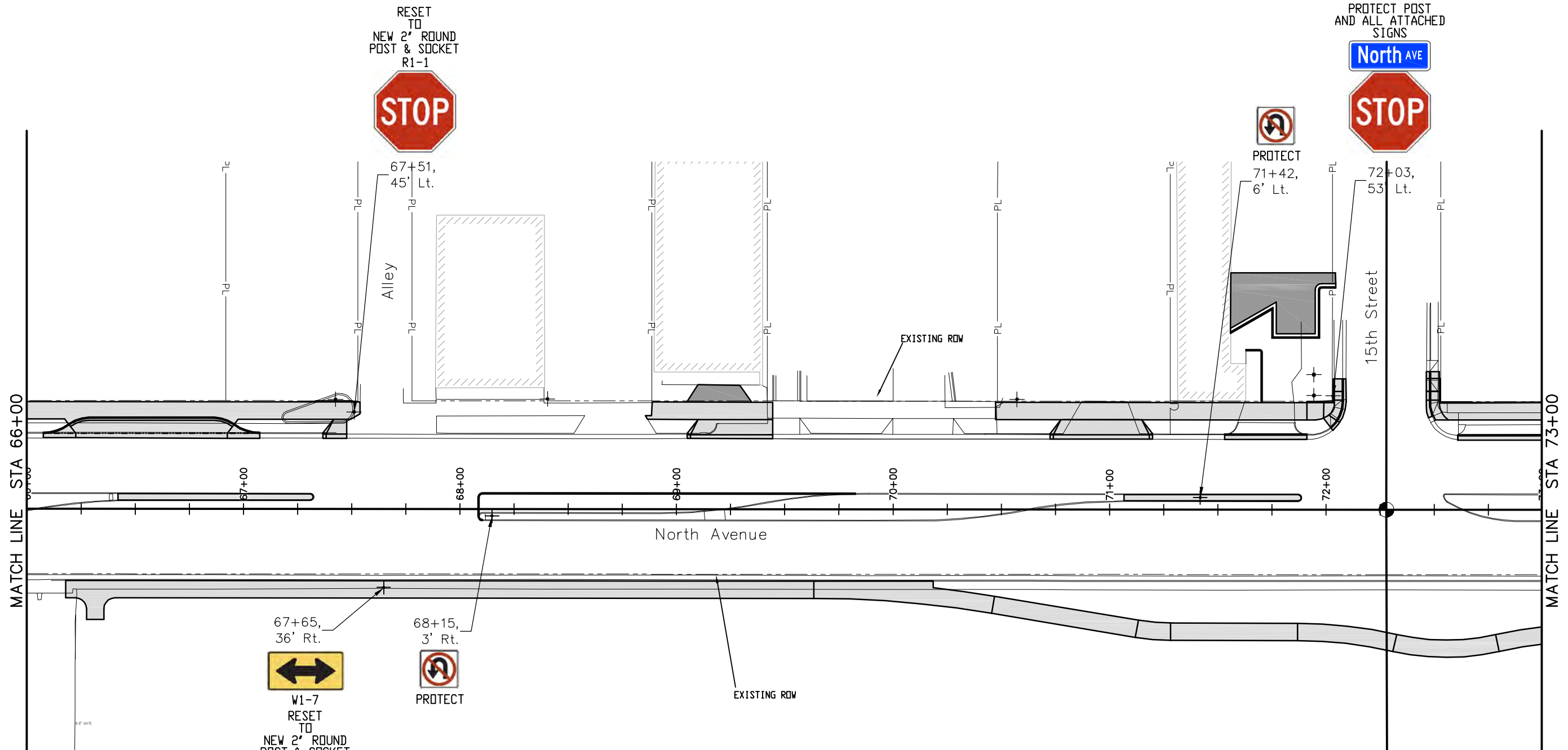
Region 3 RBB

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| Signing Plan | |
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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: Sign | Subset Sheets: 1 OF 6 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 132 |

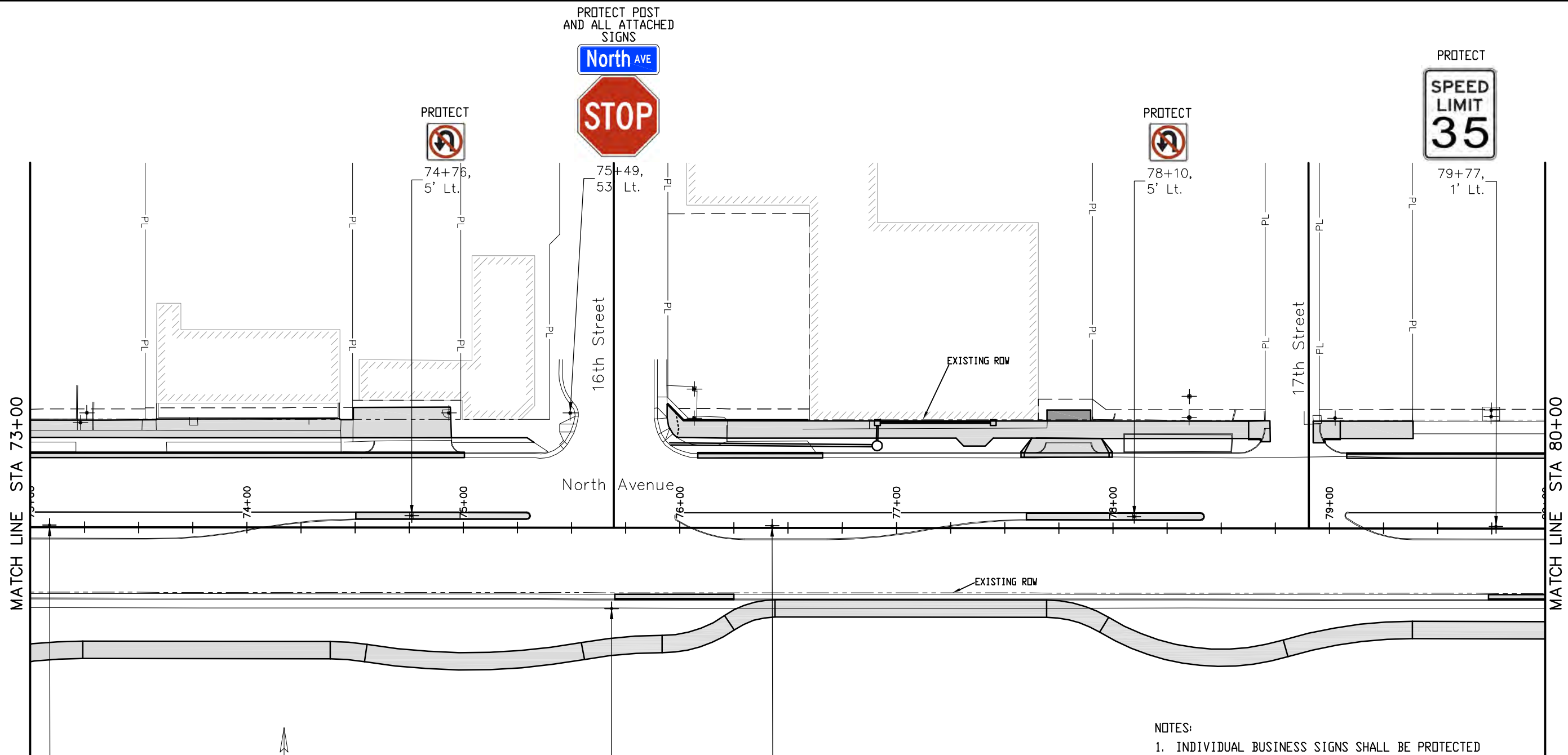
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NOTES:
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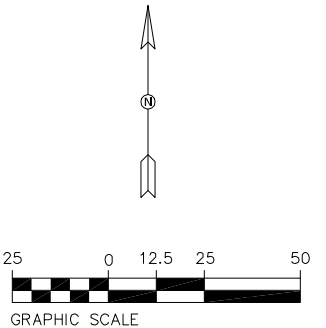
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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Project No./Code | | | |
| File Name: AT LEFT | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | | No Revisions: | | TCSP M555-029 | | | |
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73+09,
1' Lt.

PROTECT



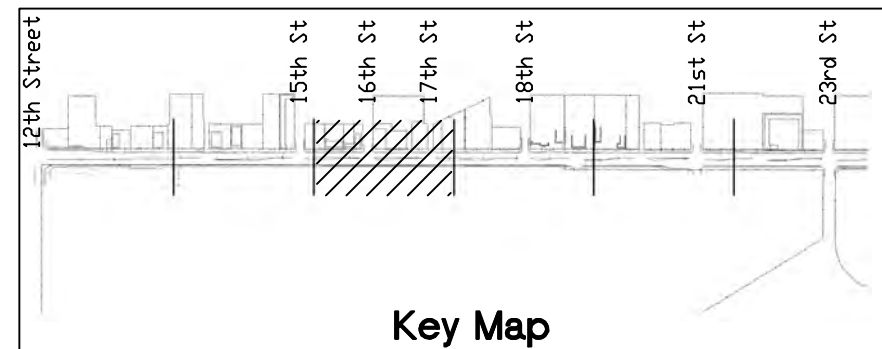
75+68,
37' Rt.

W1-7
RESET
TO
NEW 2" ROUND
POST & SOCKET

76+43,
1' Lt.

PROTECT

NOTES:
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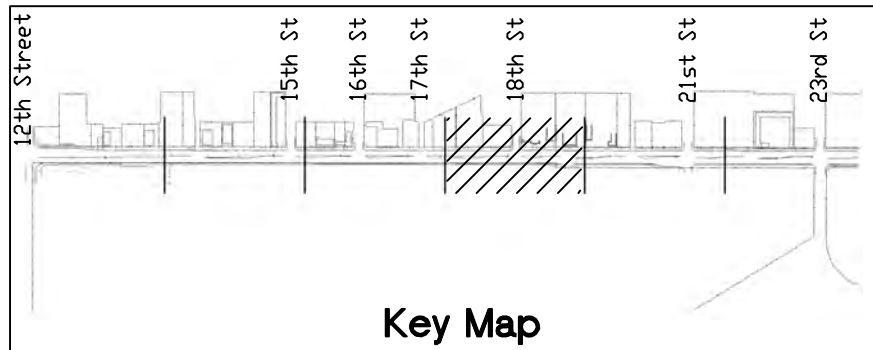
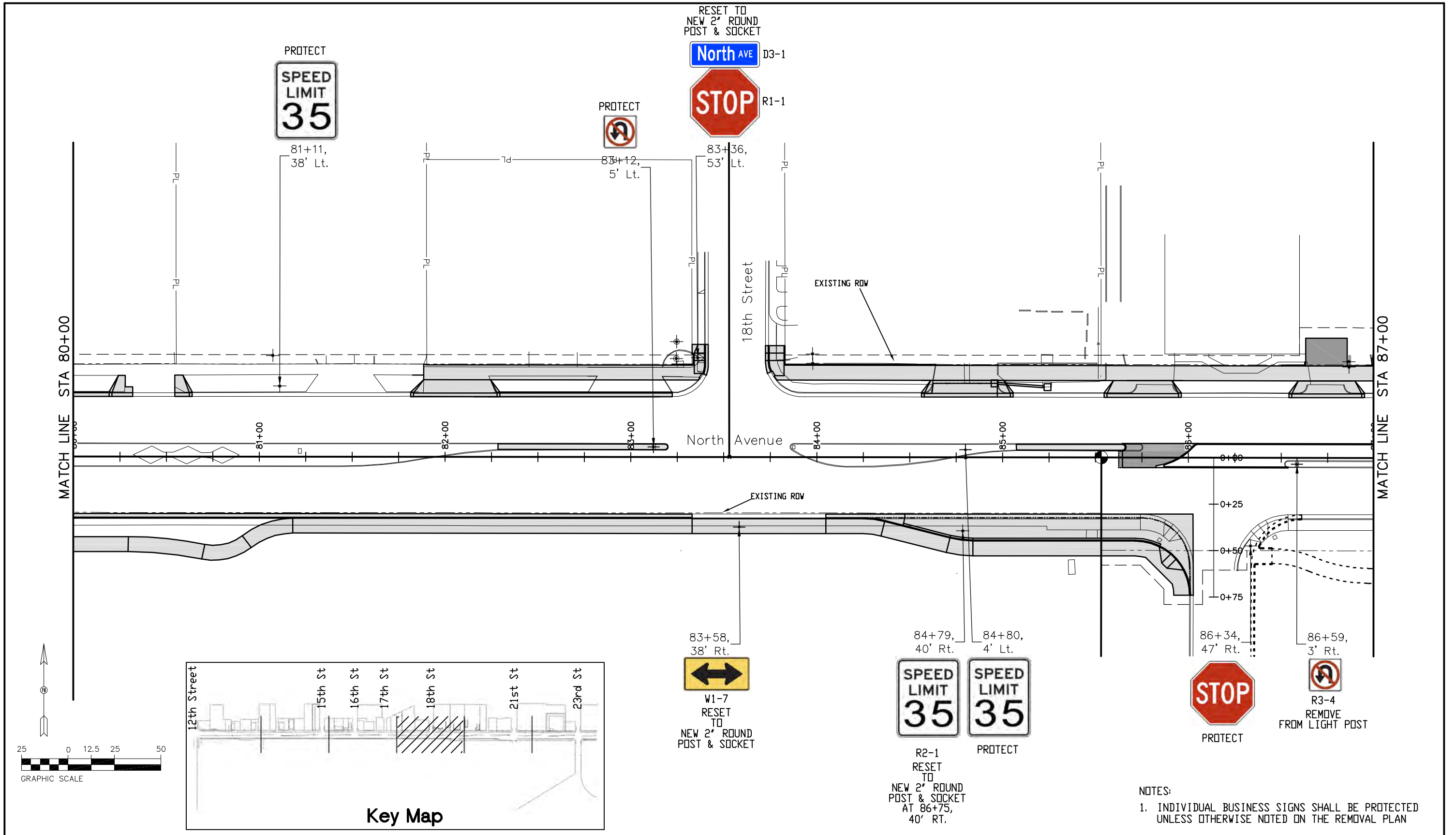
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| Signing Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: Sign | Subset Sheets: 3 of 6 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 134 |

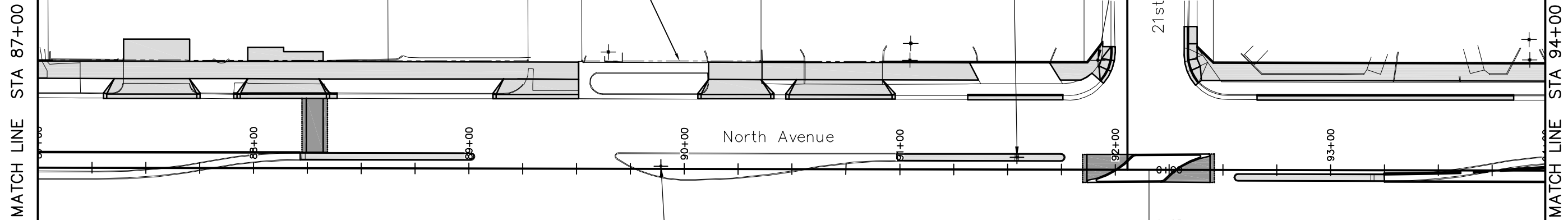
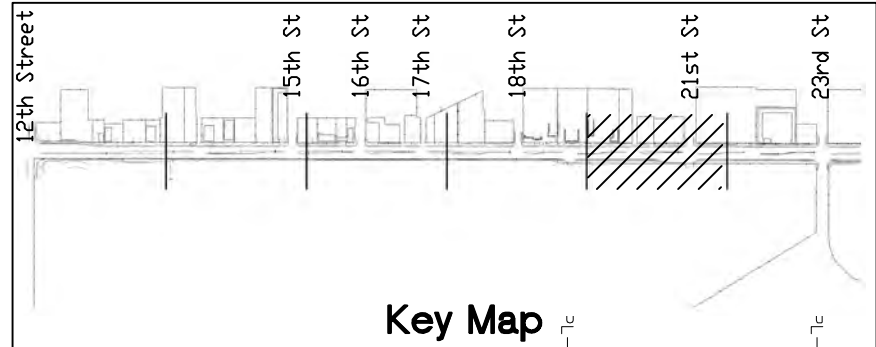
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NOTES:
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R3-4
RESET
FROM LIGHT POST
TO
NEW 2' ROUND
POST & SOCKET
AT STA 92+25

21ST ST D3-1
North AVE D3-1

STOP R1-1

RESET
ALL SIGNS ON POST
TO
NEW 2' ROUND
POST & SOCKET



91+54,
6' Lt.



91+92,
51' Lt.

89+89,
1' Lt.



R3-4
protect

92+43,
50' Rt.

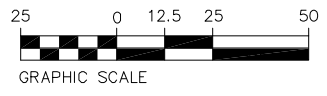


PROTECT

92+92,
41' Rt.



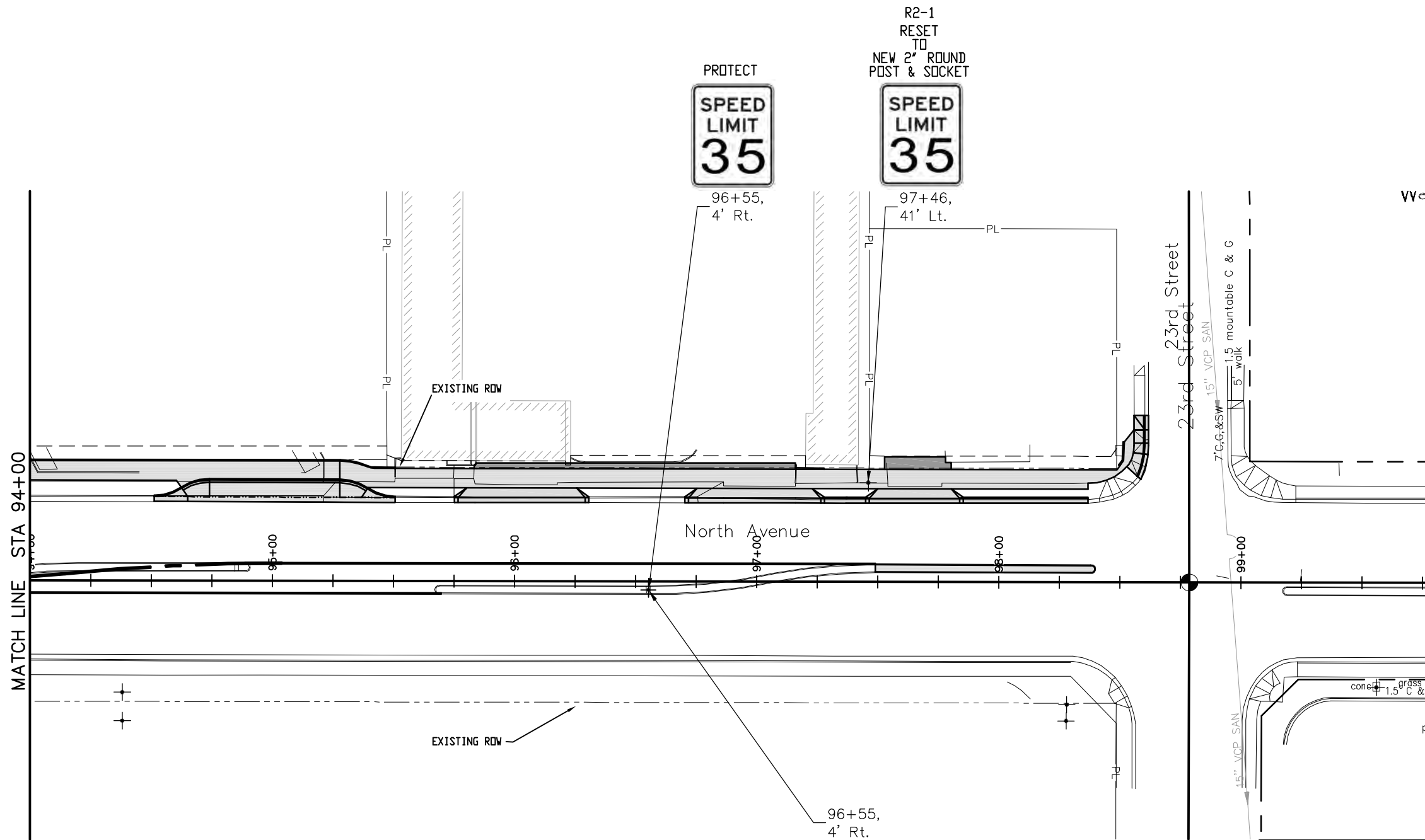
PROTECT



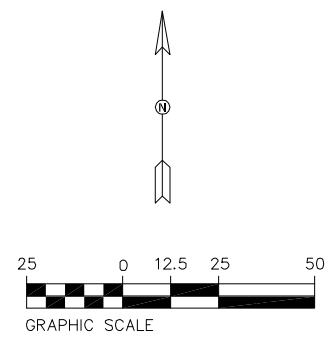
NOTES:
1. INDIVIDUAL BUSINESS SIGNS SHALL BE PROTECTED
UNLESS OTHERWISE NOTED ON THE REMOVAL PLAN

| Print Date: AT LEFT File Name: AT LEFT Horiz. Scale: 1:50 Unit Information: City of GJ Unit Leader Initials: DPJ | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 15%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 25%;">Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | <p>Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369</p> <p>Region 3</p> | As Constructed No Revisions: Revised: Void: | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Signing Plan</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;">Designer: John Smith</td> <td style="width: 50%;">Structure Numbers</td> </tr> <tr> <td>Detailer: John Smith</td> <td> </td> </tr> <tr> <td>Sheet Subset: Sign</td> <td>Subset Sheets: 5 of 6</td> </tr> </tbody> </table> | Signing Plan | | Designer: John Smith | Structure Numbers | Detailer: John Smith | | Sheet Subset: Sign | Subset Sheets: 5 of 6 | Project No./Code TCSP M555-029 19365 Sheet Number 136 |
|---|-----------------------|--|-----------------|--|--|-------|----------|-------|--|--|--|--|--|--|---|--|--|--------------|--|----------------------|-------------------|----------------------|--|--------------------|-----------------------|---|
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| Signing Plan | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designer: John Smith | Structure Numbers | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailer: John Smith | | | | | | | | | | | | | | | | | | | | | | | | | | |
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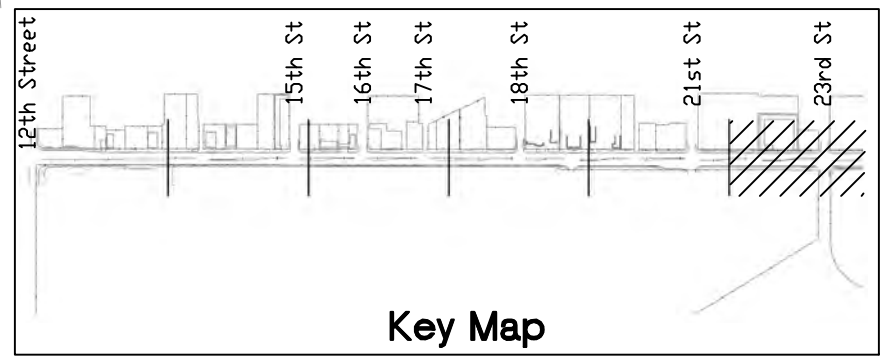
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NOTES:
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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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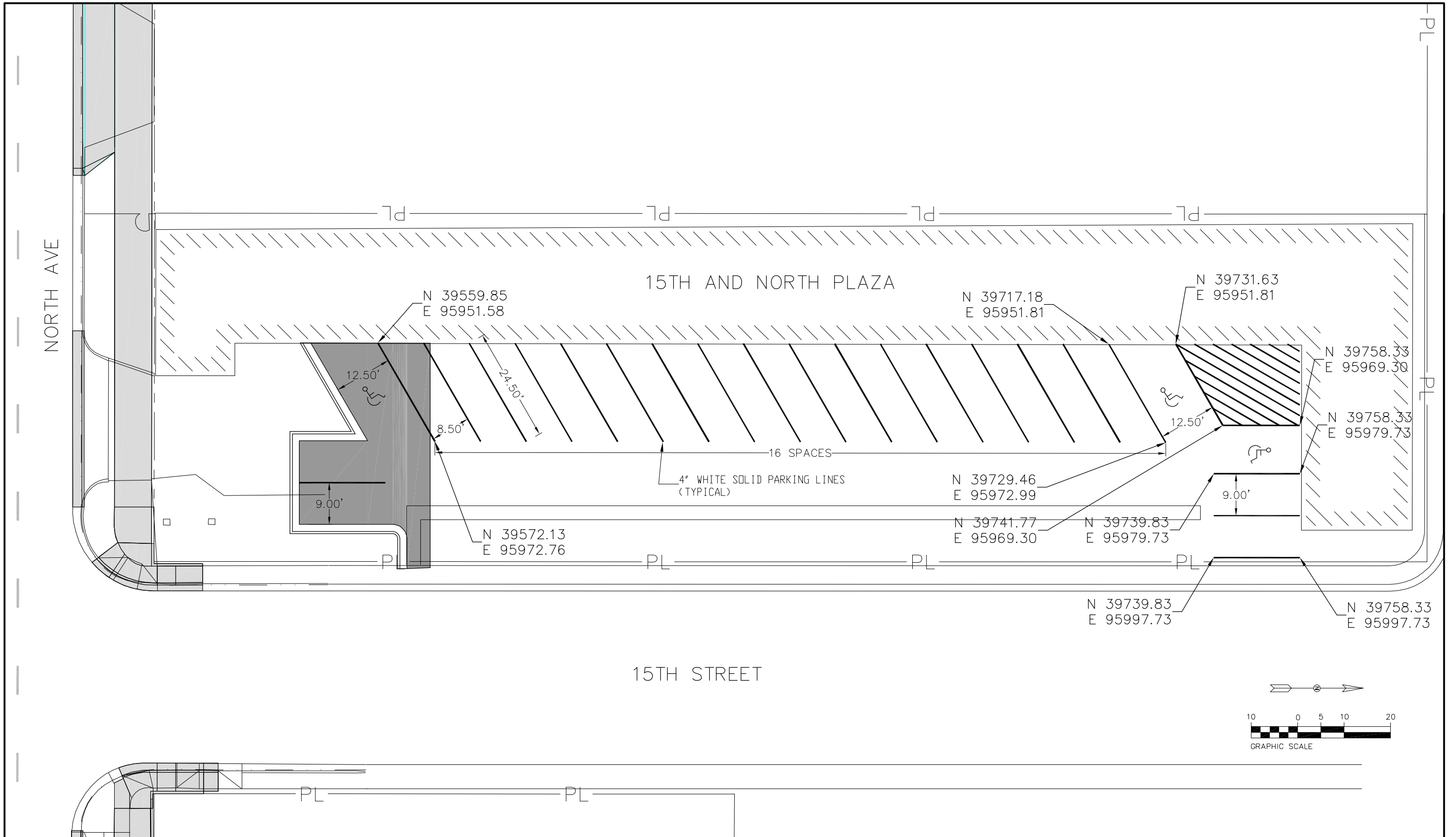
Region 3 RBB

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| Revised: |
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| Signing Plan | |
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| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: Sign | Subset Sheets: 6 of 6 |

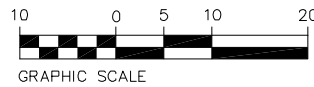
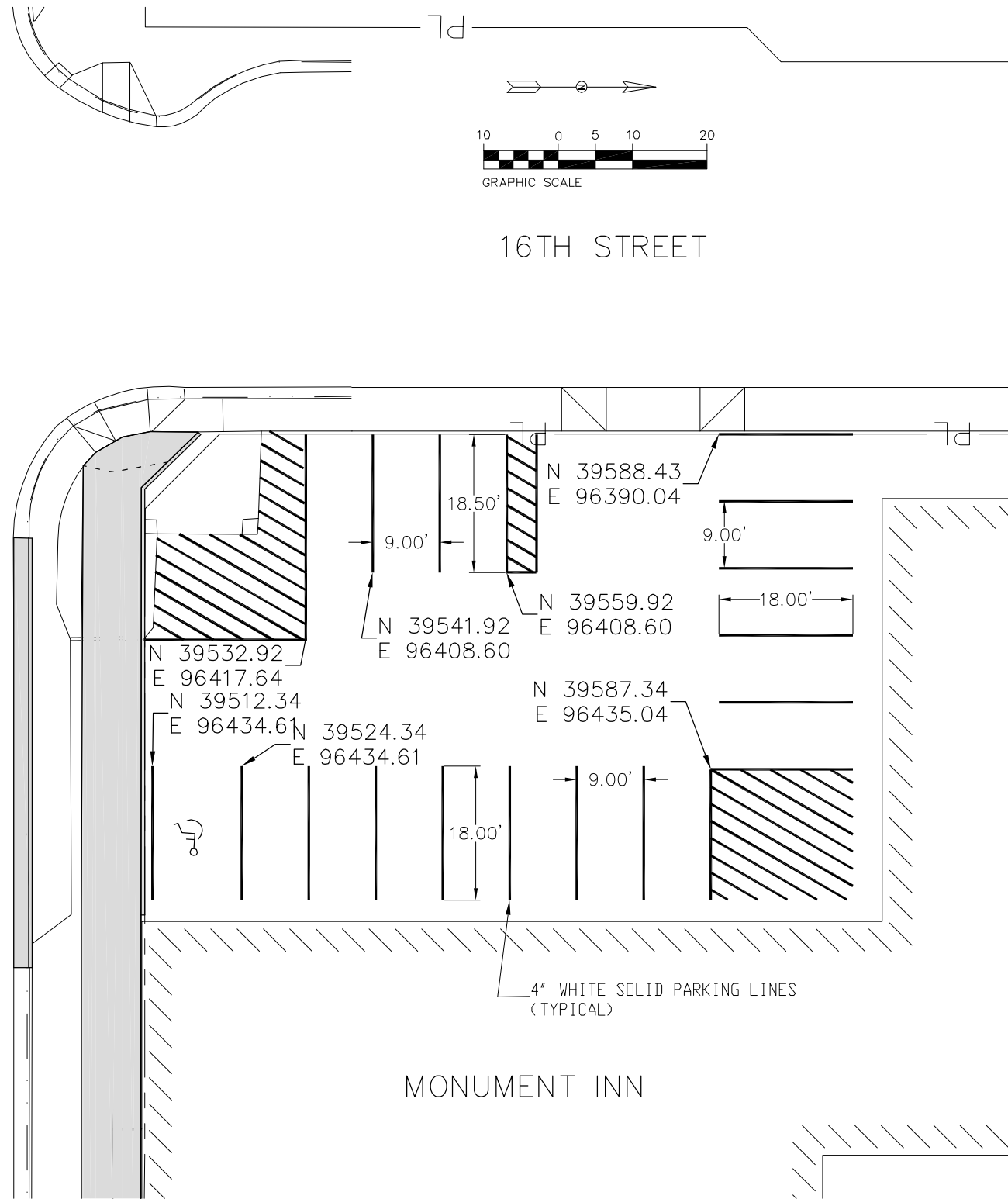
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| 19365 |
| Sheet Number 137 |

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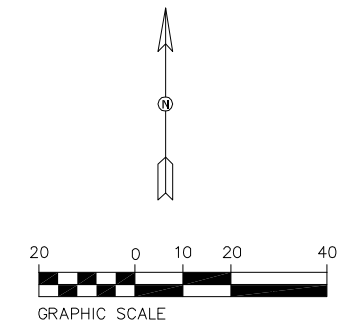
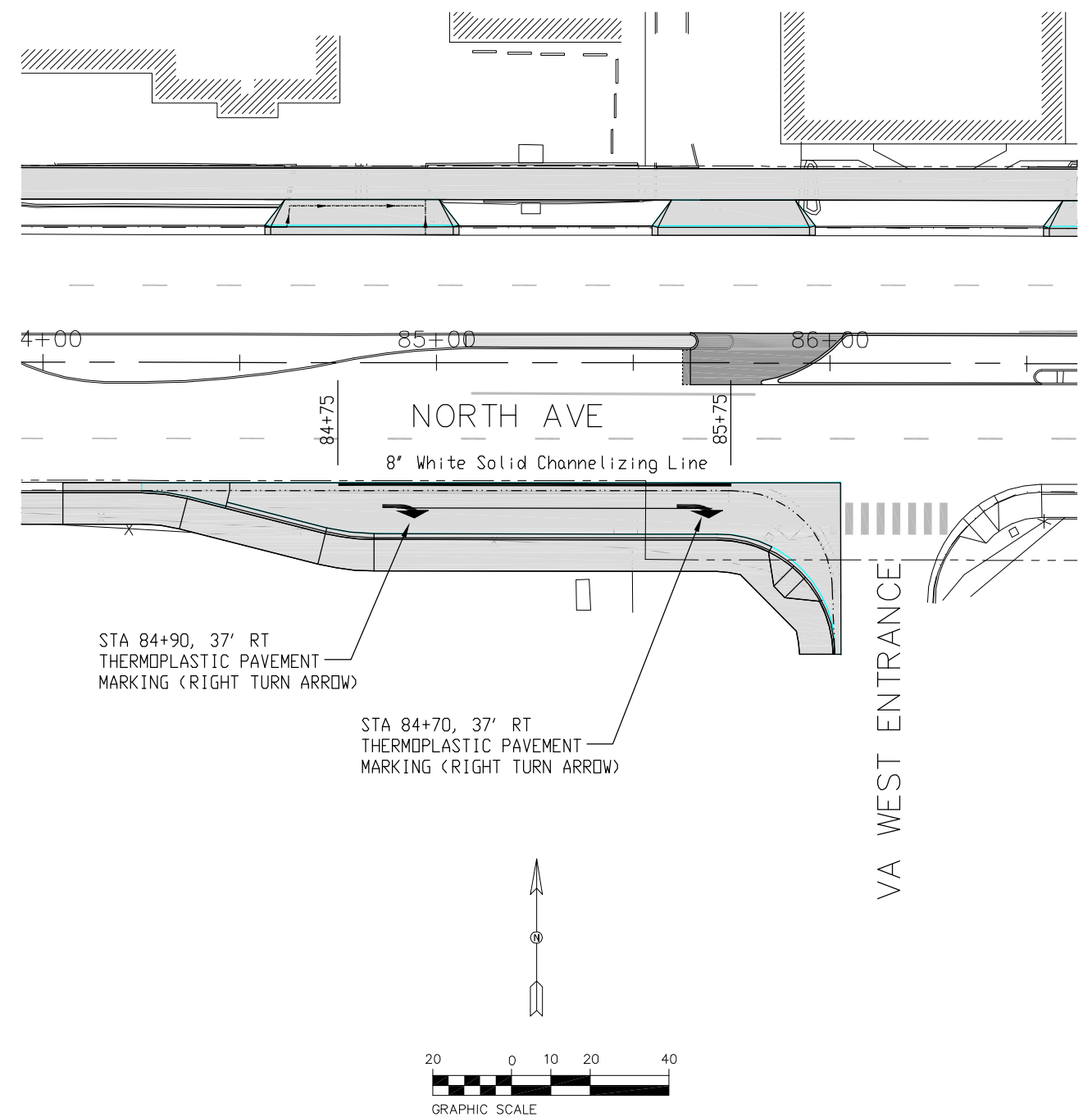


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| | | Date: | Comments | Init. | | | Designer: John C Smith Detailer: John C Smith Sheet Subset: striping | Structure Numbers | Subset Sheets: 1 OF 2 | |

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16TH STREET



Print Date: AT LEFT
 File Name: striping
 Horiz. Scale: AS SHOWN AS SHOWN
 Unit Information: City of GJ Unit Leader Initials: DPJ

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As Constructed
 No Revisions:
 Revised:
 Void:

| STRIPING PLAN | | | |
|---------------|--------------|-------------------|--------|
| Designer: | John C Smith | Structure Numbers | - |
| Detailer: | John C Smith | Subset Sheets: | 2 OF 2 |
| Sheet Subset: | striping | | |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **139**

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1. SITE DESCRIPTION

To fulfill the CDPS-SCP (Colorado Discharge Permit System - Stormwater Construction Permit). The ECS shall update to reflect current project site conditions.

A. PROJECT SITE DESCRIPTION: Project will include activities such as removal and relocation of sidewalks, construction of bus pullouts, and landscaping to create establish North Avenue as a Complete Street. Project site is located in a fully developed section of Grand Junction with businesses adjacent to North Avenue. The businesses have established landscaping that the North Avenue Complete Streets project will modify to accommodate the realignment of sidewalks and create a more uniform appearance throughout the corridor. Grading activities will be minor. The proposed design has been created to match existing grades as closely as possible, while correcting existing drainage issues. Proposed new utilities include new storm piping and inlets which will be constructed within the construction boundaries. Very few water and dry utilities will require relocations as part of this project. This project will have both asphalt patches and concrete pavement installed. Excavation is limited to the construction of the new sidewalk sections, concrete pavement sections and appurtenances. Landscaping is provided on this project in the form of sod, seeding, trees, shrubs and inorganic mulch. Irrigation will be provided to all new trees, shrubs and perennials.

B. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:

1. Installation of initial erosion control items
2. Clearing and Grubbing
3. Removal and Stockpile of topsoil
4. Utility installation and relocations (water, storm, dry utilities)
5. Asphalt and concrete removal
6. Excavation for medians, sidewalks and bus pullout construction
7. Grading and sub grade preparation
8. Installation of interim erosion control items
9. Hot mix asphalt and concrete construction of proposed medians, sidewalks and bus pullouts
10. Landscape and Irrigation installation
11. Signing and Striping
12. Installation of final erosion control items (revegetation)

C. ACRES OF DISTURBANCE:

1. Total area of construction site: 9 acres
2. Total area of disturbance: 3.32 acres
3. Acreage of seeding: 0 acres

D. EXISTING SOIL DATA: Sagers-Urban Land Complex, 0 to 2 percent slopes. Parent Material: alluvium derived from calcareous shale and sandstone Depth to water table: More than 80 inches. Hydrologic Soil Group: C.

E. EXISTING VEGETATION, INCLUDING PERCENT COVER:

Existing vegetation consists of maintained landscaping by both the City of Grand Junction and the local businesses adjacent to the project. Existing vegetation consists of sod, trees, shrubs, perennials, inorganic mulch and native grasses. The estimated percent of vegetative ground cover is 95% on south side of North Avenue and less than 50% in medians and on north side of North Avenue.

F. POTENTIAL POLLUTANTS SOURCES: See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

G. RECEIVING WATER:

1. Outfall locations: The owner of the new storm pipes installed as part of this project that are underneath and crossing North Avenue will be owned and maintained by the City of Grand Junction. The existing 12" RCP pipe and 15" VCP pipe underneath North Avenue are owned and maintained by the City of Grand Junction. All storm drain piping that is part of this project conveys storm water to the aforementioned existing storm pipes. All flows that are carried west in the 15" VCP pipe outlet to the Ligrani Drainage. Storm flows carried east in the 12" RCP pipe outlet to Indian Wash. This project is located within MS4 boundaries. This project decreases the impervious area by 7%.
2. Names of receiving water(s) on site and the ultimate receiving water: West of the project, Ligrani Drainage and Colorado River as the ultimate receiving waters. East of the project, Indian Wash and Colorado River as the ultimate receiving waters.
3. Distance ultimate receiving water is from project: Flows to west: 2.2 miles. Flows to east: 2.0 miles.

H. ALLOWABLE NON-STORMWATER DISCHARGES: Concrete washout and saw cutting are anticipated on this project. The ECS shall prepare a list of allowable non-stormwater discharges

1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
 - a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
 - b. the source and BMPs are identified in the SWMP
 - c. discharges do not leave the site as surface runoff or to surface waters
 - d. The contractor shall protect all work areas and facilities from water at all times. Areas and facilities subject to flooding, regardless of the source of water, shall be promptly dewatered and restored at no cost to the owner. This shall include removal of any debris caused by flooding. Any dewatering shall be done in accordance with Subsection 107.25
2. If discharges do not meet the above criteria a separate CDPS permit shall be obtained by the Contractor from the CDPHE. See standard special provision 250 Hazardous Waste and Contaminated Water.


I. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: YES NO
2. Stream Impacts: YES NO
3. Threatened and Endangered Species: N/A

2. SITE MAP COMPONENTS:

Pre-construction

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES – Shown on the Storm Water Management Site Plans as the shaded area. The outer perimeter of the shaded area is the proposed limits of construction and/or the toe of fills or top of cuts. The existing right-of-way and temporary and permanent easement lines are shown on the Storm Water Management Site Plans.

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| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | | Numbers | | Sheet Number 140 | |
| | | | | | | Sheet Subset: SWMP | | Subset Sheets: | 1 of 5 | | | |

B. ALL AREAS OF GROUND SURFACE DISTURBANCE – Shown on the Storm Water Management Site Plans. The shaded area represents all areas that are anticipated to have surface disturbance. This shaded area is what was used to calculate the acres of disturbance. Limits of disturbance are shown on the Storm Water Management Site Plans.

C. AREAS OF CUT AND FILL – Shown on the Roadway Plans, Grading and Drainage Plans and the Storm Water Management Site Plans. The areas of cut and fill are shown with their own specific line type.

D. LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP – All proposed Structural BMP's are shown and labeled on the Storm Water Management Site Plans. The locations shown on the Storm Water Management Site Plans are approximate and can be changed by the Contractor and/or Project Engineer during construction to adapt with the construction phasing.

E. LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP – Location of the following to be located by the ECS: Material management, material usage, spill prevention and control, sanitary and septic waste management, liquid waste management, hazardous waste management, vehicle and equipment management, and concrete washout structure.

F. SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER – N/A

G. PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION – Protection of trees and shrubs are shown on the Landscape Plans and the Removal Plans.

H. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and BATCH PLANTS

*ECS to revise site maps in accordance with 208.03

3. SWMP ADMINISTRATORS:

A. SWMP ADMINISTRATOR FOR DESIGN:

John Eklund
Project Engineer
City of Grand Junction
250 North 5th Street
Grand Junction, CO 81501
Phone: (970) 244-1558
Email: johne@gjcity.org

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. DESIGNATE A SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR (To be filled out at time of construction; designate the individual(s) responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the administrator shall address all aspects of the projects SWMP.)

Name/Title:
Company:
Address:

Phone:
Email:

B. POTENTIAL POLLUTANT SOURCES

Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

C. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION

PHASED BMP IMPLEMENTATION

During Design: "BMP as Designed" boxes are marked when used in the SWMP. During construction: the ECS shall update the "In use on site" boxes to match which BMPs are currently in use on site. Clearly describe the relationship between the phases of construction and the implementation of BMP controls.

STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

| APPLICATION, BMP | NARRATIVE | BMP AS DESIGNED | IN USE ON SITE | BMP PHASING | | |
|---|--|-----------------|----------------|---------------------------------------|---------------------------------|---------------------|
| | | | | FIRST/INITIAL CONSTRUCTION ACTIVITIES | INTERIM CONSTRUCTION ACTIVITIES | FINAL STABILIZATION |
| <u>PROTECTION OF EXISTING WETLANDS</u> Fence (plastic) and erosion logs | Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas. | | | X | X | |
| <u>PROTECTION OF EXISTING TREES/LANDSCAPING</u> Fence (plastic) | Fence (plastic) shall be used in areas indicated in the plans to protect mature trees and/or existing landscaping prior to start of construction disturbances. | X | | X | X | |
| <u>CHECK DAM/DITCH CHECK</u> Erosion log, silt berm, silt dike, rock check dam | Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances. | | | X | X | X |
| <u>TYPE R AND TYPE 16 INLET PROTECTION</u> | Placed prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction. | X | | X | X | X |

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| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | Sheet Subset: SWMP | Subset Sheets: 2 of 5 | Sheet Number 141 | |

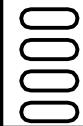
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| | | | | | | |
|---|--|---|--|---|---|---|
| Storm drain inlet protection (type 1,2 and 3) | | | | | | |
| CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags | Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances. | | | X | X | X |
| TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales | Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances. | | | X | X | X |
| STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags* | Placed within specified distance from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stock pile, increase control as stock pile increases size. | | | | X | |
| TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow* | Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage. | | | X | X | |
| PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow* | Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area | | | X | X | |
| SEDIMENT CONTROL/ SLOPE CONTROL Silt fence, erosion logs | Placed on the contour on a slope to contain and slow down construction runoff. Place prior to start of construction disturbances. | | | X | X | |
| TEMPORARY SEDIMENT TRAP (ECS shall add locations to SWMP site maps) | Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances. | | | X | X | |
| PERMANENT SEDIMENT BASIN Extended detention basin | Constructed early in project, prior to storm sewer/ditches to capture storm flow as a temporary sediment trap. Outlet structure shall be modified for construction runoff. | | | X | X | |
| EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN | Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope. | | | | X | X |
| OUTLET PROTECTION Riprap, or approved other | Material placed as energy dissipater to prevent erosion at outlet structure. | | | | X | X |
| CONCRETE WASHOUT In-ground or fabricated | Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities. | X | | X | X | |
| VEHICLE TRACKING PAD | Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances. | X | | X | X | |
| SWEEPING | Source control, used to remove sediment tracked onto paved surfaces and to prevent from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be allowed. | X | | X | X | |
| DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.) | Shall be done in such a manner to prevent potential pollutants from entering state waters. | | | X | X | |
| TEMPORARY STREAM CROSSING | Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water | | | X | X | |
| CLEAN WATER DIVERSION | Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff | | | X | X | |
| OTHER | | | | | | |


NON-STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

| APPLICATION, BMP | NARRATIVE | BMP AS DESIGNED | IN USE ON SITE | BMP PHASING | | |
|--|---|-----------------|----------------|---------------------------------------|---------------------------------|---------------------|
| | | | | FIRST/INITIAL CONSTRUCTION ACTIVITIES | INTERIM CONSTRUCTION ACTIVITIES | FINAL STABILIZATION |
| VEGETATIVE BUFFER STRIP Fence (plastic) | Filter sediment laden runoff from disturbance area. Area to be identified for preservation prior to construction starting. | | | X | X | X |
| LANDFORM (ECS shall add locations to SWMP site maps) | Existing landforms may be used as a BMP if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. | | | X | X | |
| TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile | Prior to embankment work commencing, existing topsoil shall be scraped to a depth of 4 inches, and placed in stockpiles or windrows. Upon completion of slope work/final grading (less 4 inches), topsoil shall be evenly distributed over embankment to a depth of 4 inches. | X | | X | X | |
| SURFACE ROUGHENING / GRADING TECHNIQUES Blading, Backhoe, Dozing, Combination Loader | Temporary stabilization of disturbance and to minimize wind and erosion. | | | | X | |
| SEEDING TEMPORARY | Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction. | | | | X | |
| BONDED FIBER MATRIX/HYDRAULIC MULCH (Not to be used in areas of concentrated flows, i.e. ditch lines.) | To be used in combination with surface roughening for temporary stabilization of disturbed soils, when work is temporarily halted and as approved by the Engineer. May be used as surface cover for temporary topsoil stockpiles | | | | X | |
| MULCH/MULCH TACKIFIER | Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer | | | | X | X |

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Project No./Code
 TCSP M555-029
 19365
 Sheet Number **142**

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|---|---|--|--|--|---|---|
| <u>SPRAY-ON MULCH BLANKET</u> (Not to be used in areas of concentrated flows, i.e. ditch lines.) | Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer | | | | X | X |
| <u>SEEDING PERMANENT</u> | Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. | | | | | X |
| <u>SOIL RETENTION BLANKET (SRB)</u> | Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. | | | | X | X |
| <u>TURF REINFORCEMENT MAT (TRM)</u> | Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment. | | | | X | X |
| <u>OTHER</u> | | | | | | |

Erosion control devices are used to limit the amount of soil loss on site
Sediment control devices are designed to capture sediment on the project site.
Construction controls are BMPs related to construction access and staging.
BMP locations are indicated on the SWMP site map.

NARRATIVES

BMP details and narratives not covered by the SWMP or Standard Plan M-208-1 shall be added to the SWMP notebook by the ECS.

D. OFFSITE DRAINAGE (RUN ON WATER)

- Describe and record BMPs on the SWMP site map that has been implemented to address off site run-on water in accordance with subsection 208.03.

E. VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL

- BMPs shall be implemented in accordance with subsection 208.04.

F. PERIMETER CONTROL

- Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
- Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
- Perimeter control shall be in accordance with subsection 208.04.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/TRANSPORTATION EROSION CONTROL SUPERVISOR DURING CONSTRUCTION

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208. During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

- A. STOCKPILE MANAGEMENT - shall be done in accordance with subsection 107.25 and 208.07
- B. CONCRETE WASHOUT - Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- C. SAW CUTTING - shall be done in accordance with subsection 107.25, 208.04, 208.05
- D. STREET CLEANING - shall be done in accordance with subsection 208.04

6. INSPECTIONS

- A. Inspections shall be in accordance with subsection 208.03 (c).

7. BMP MAINTENANCE

- A. Maintenance shall be in accordance with subsection 208.04 (f).

8. RECORD KEEPING

- A. Records shall be kept in accordance with subsection 208.03 (c).

9. INTERIM AND FINAL STABILIZATION

A. SEEDING PLAN

Seeding along the City Park Golf Course will be required in accordance with the Landscape Plans. Soil preparation, soil conditioning and seeding (turfgrass) will be required for an estimated 0.57 acres of disturbed area along the City Park Golf Course. Contractor will coordinate with City of Grand Junction Parks and Recreation Department for final seeding.

The following types and rates shall be used:

| COMMON NAME | BOTANICAL NAME | LBS. PLS PER ACRE |
|--------------------|----------------|-------------------|
| Kentucky Bluegrass | Poa Pratensis | 0.57 |

B. SEEDING APPLICATION: For slope stabilization, drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil. For see Landscape Plans for turfgrass seeding application.

C. MULCHING APPLICATION: Apply a minimum of 2 tons of certified weed free straw or 2 tons of certified weed free straw per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

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- a. Prior to winter shutdown or the summer seeding window: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier per section 213.

D. SPECIAL REQUIREMENTS:

1. Due to high failure rates, hydroseeding will not be allowed.

E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS: [Minimum requirements for all disturbances to receive seeding (native). Compost is optional within areas above 8000 ft in elevation]

| Soil conditioner paid for as Item 212- Soil Conditioning (Acre) | | |
|---|-------------------|------------------------------------|
| Biological nutrient organic based fertilizer (lbs/acre)* | Humate (lbs/acre) | Compost (cy/acre) (1/2 inch depth) |
| 600 | 200 | 65 |

*Biological nutrient shall not exceed 8-8-8 (N-P-K). Humate based material and compost shall be in accordance to Section 212.

F. SOIL RETENTION COVERING: On slopes and ditches requiring a blanket or turf reinforcement mat (frm), the blanket/frm shall be placed in lieu of mulch and mulch tackifier. See SWMP for blanket locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to final acceptance.

- Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
- The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until Final Acceptance.

*It is anticipated that additional BMPs and BMP quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04 (e). Quantities for all BMPs shown above are estimated, and have been increased for unforeseen Project conditions. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

10. PRIOR TO FINAL ACCEPTANCE

- Final Acceptance shall be in accordance with subsection 208.10 At the Partial Acceptance of the project, it shall be determined by the ECS and the Engineer which temporary BMP's shall remain until 70% reestablishment or which shall be removed.
- At the end of the project, all ditch checks shall either consist of temporary erosion logs or permanent rip-rap.
- All storm drains shall be cleaned prior to the end of the project. Work shall be included in 203 Clean Culvert.

- BMP sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other BMP maintenance shall be included in the cost of the BMP Device.
- It is estimated that 0 hours of labor, blading (X horsepower), dozing (X horsepower), combination loader (X horsepower) and/or backhoe (X horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as:
- Maintenance of seeded areas shall be paid for as: included in the price of the work.

11. TABULATION OF STORMWATER QUANTITIES


| Pay Item | Description | Pay Unit | *Quantity |
|-----------|--|----------|-----------|
| 203-01622 | Sweeping (With Pickup Broom) | Hour | 20 |
| 207-00205 | Topsoil | CY | 8091 |
| 207-00210 | Stockpile Topsoil | CY | 1500 |
| 208-00035 | Aggregate Bag | LF | 10 |
| 208-00045 | Concrete Washout Structure | Each | 3 |
| 208-00052 | Storm Drain Inlet Protection (Type2) | LF | 130 |
| 208-00070 | Vehicle Tracking Pad | Each | 2 |
| 208-00103 | Removal and Disposal of Sediment (Labor) | Hour | 40 |
| 208-00105 | Removal and Disposal of Sediment (Equipment) | Hour | 40 |
| 208-00206 | Erosion Control Supervisor | Day | 120 |
| 212-00032 | Soil Conditioning | Acre | 0.57 |
| 700-70380 | Erosion Control | FA | 1 |

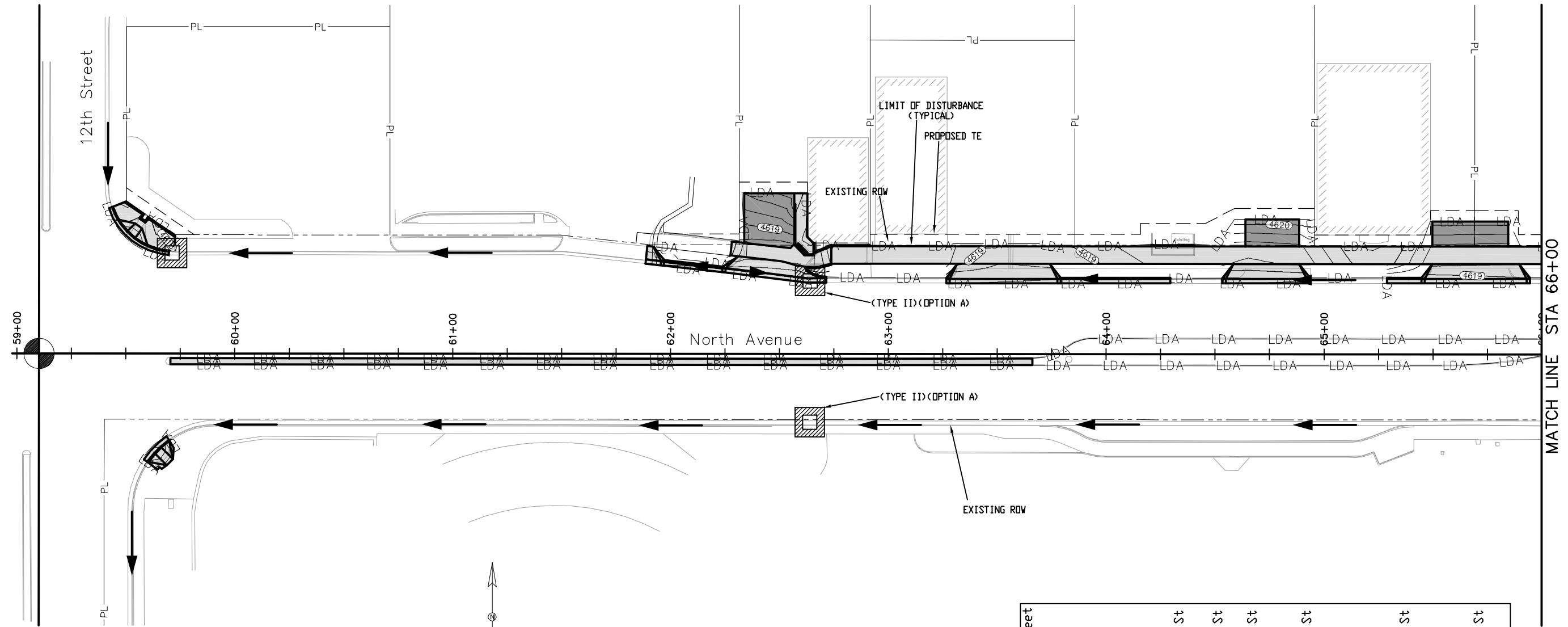
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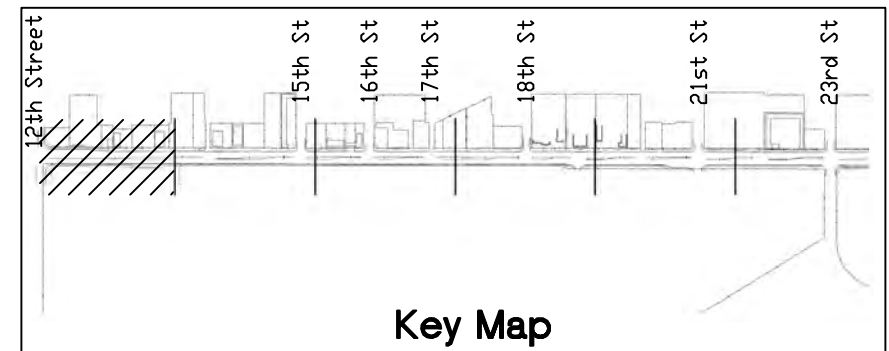
LEGEND

 STORM DRAIN INLET PROTECTION
(TYPE AS NOTED)



NOTES:


1. SEE LANDSCAPE PLANS FOR SEEDING, MULCHING, AND SOD REVEGETATION REQUIREMENTS.
2. BMPS NOT DRAWN TO SCALE
3. BMP PLACEMENT IS APPROXIMATE
4. SEE SWMP NARRATIVE FOR BMPS.
5. ECS TO UPDATE SWMP SITE MAPS DURING CONSTRUCTION.
6. ECS TO DETERMINE LOCATION FOR STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUTS, AND STAGING AREAS.



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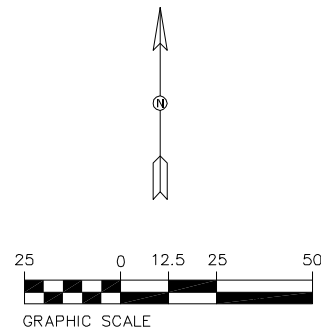
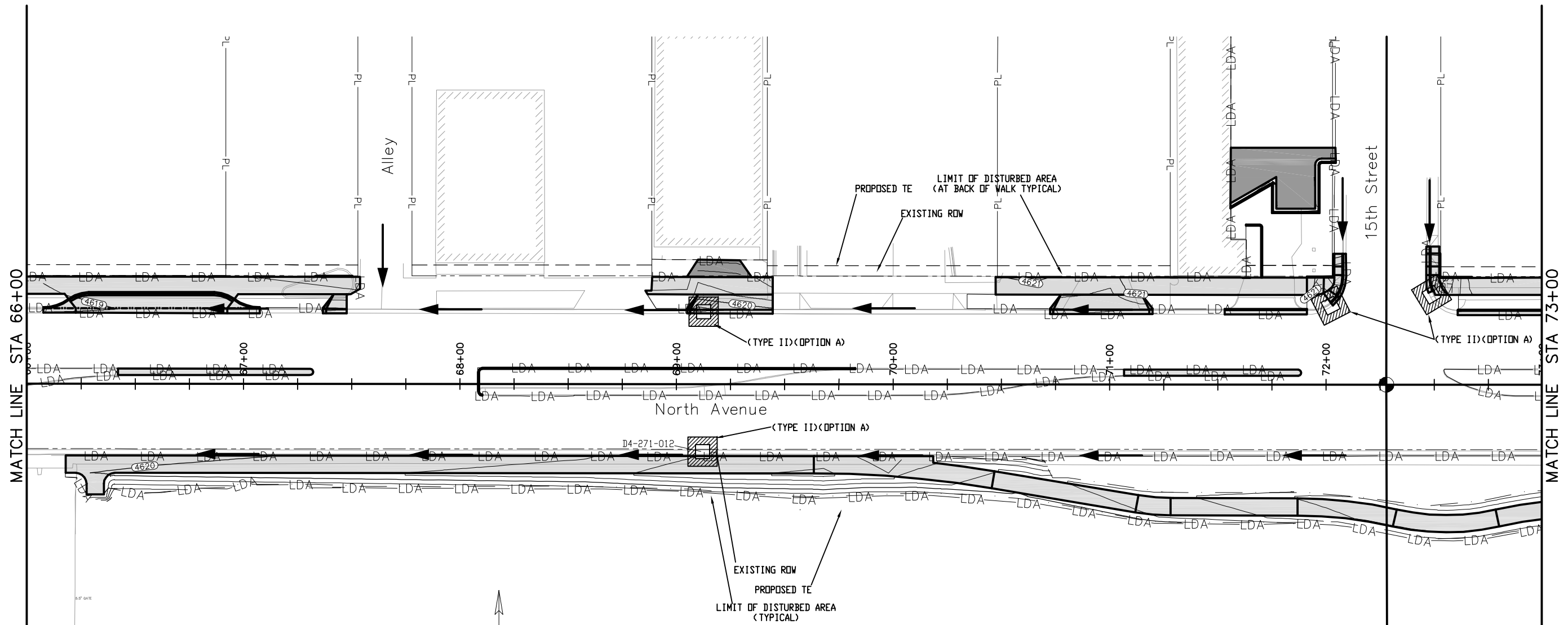
Storm Water Management Plan
 Site Map
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset: SWMP-SM
 Structure Numbers
 Subset Sheets: 1 OF 6

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **145**

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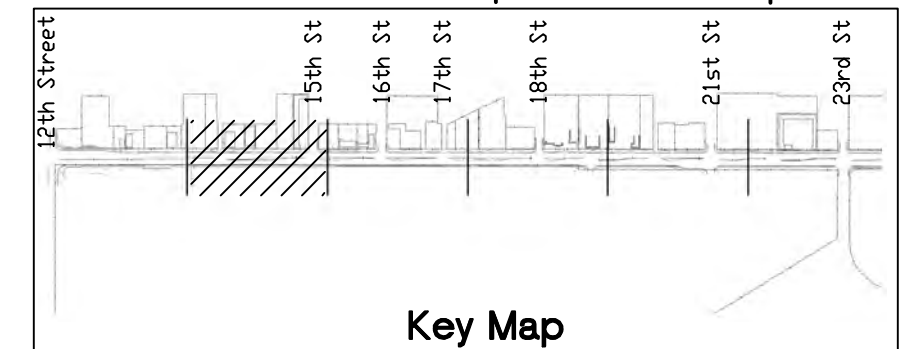
LEGEND

 STORM DRAIN INLET PROTECTION
(TYPE AS NOTED)



NOTES:

1. SEE LANDSCAPE PLANS FOR SEEDING, MULCHING, AND SOD REVEGETATION REQUIREMENTS.
2. BMPS NOT DRAWN TO SCALE
3. BMP PLACEMENT IS APPROXIMATE
4. SEE SWMP NARRATIVE FOR BMPS.
5. ECS TO UPDATE SWMP SITE MAPS DURING CONSTRUCTION.
6. ECS TO DETERMINE LOCATION FOR STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUTS, AND STAGING AREAS.



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 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation



606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

As Constructed

No Revisions:
 Revised:
 Void:

**Storm Water Management Plan
 Site Map**


Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: SWMP-SM Subset Sheets: 2 of 6

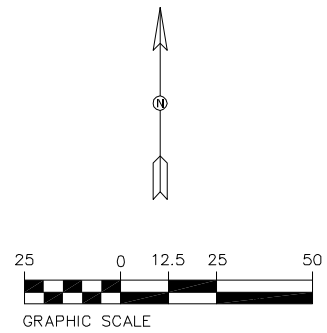
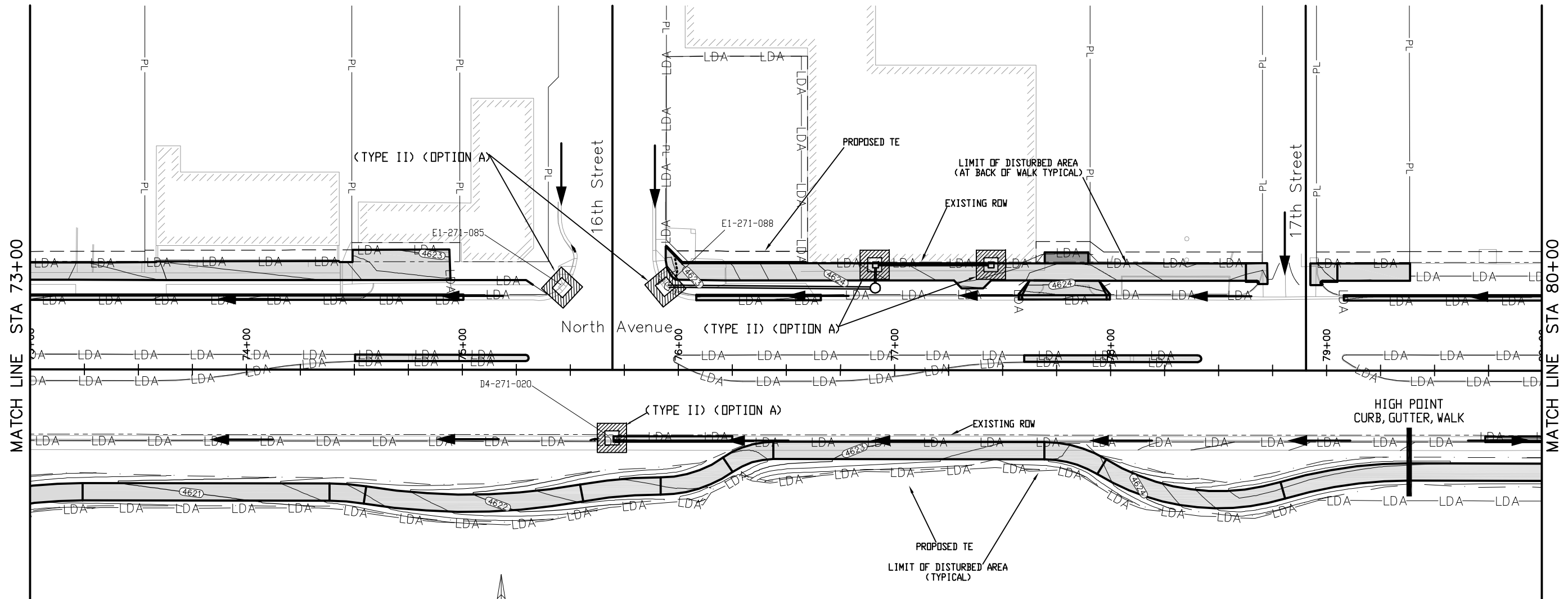
Project No./Code

TCSP M555-029
 19365
 Sheet Number **146**

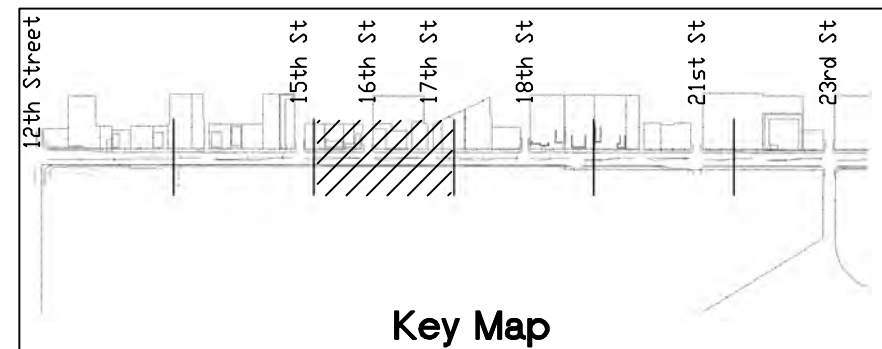
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LEGEND

 STORM DRAIN INLET PROTECTION
(TYPE AS NOTED)



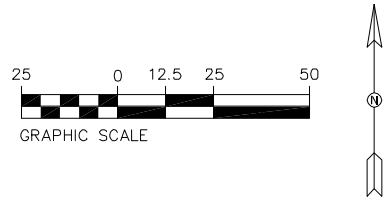
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Key Map

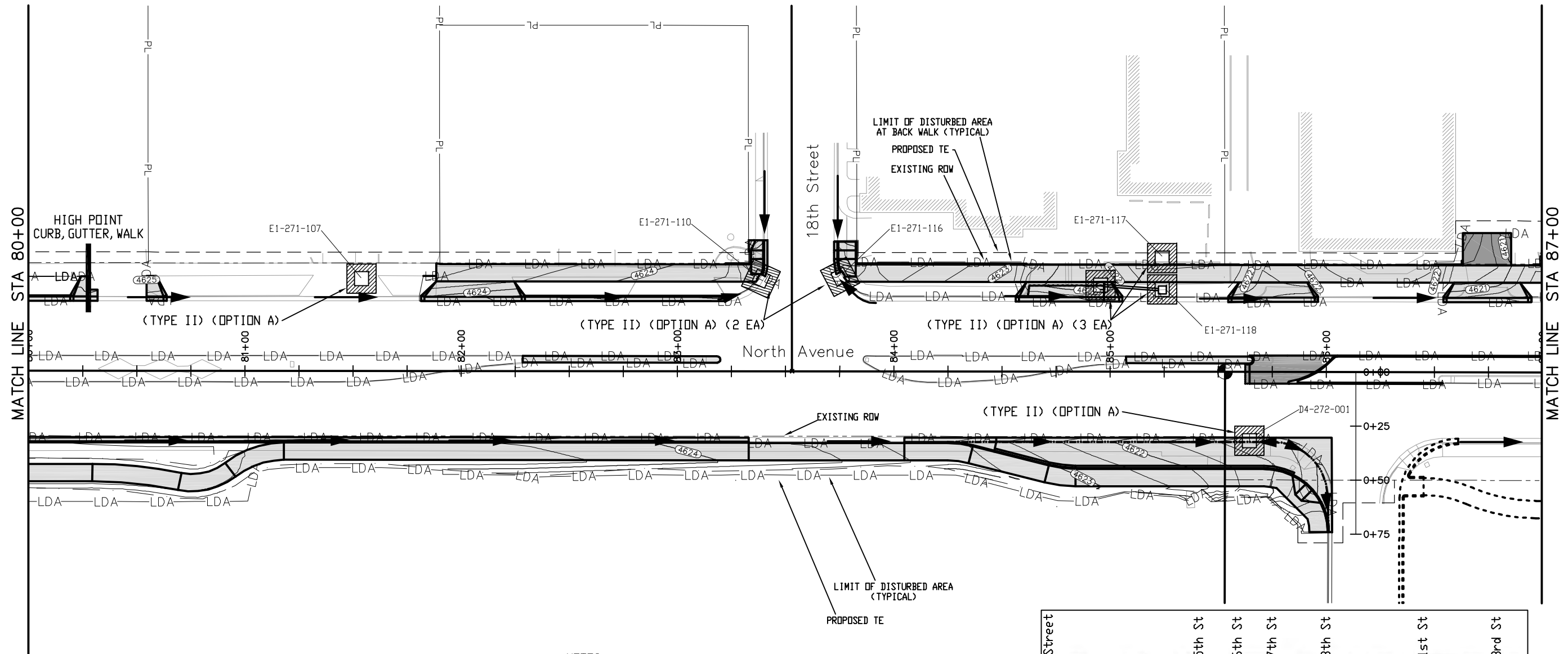
| Print Date: AT LEFT File Name: AT LEFT Horiz. Scale: 1:50 Unit Information: City of GJ Unit Leader Initials: DPJ |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 15%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 25%;">Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | |  Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed No Revisions: Revised: Void: | Storm Water Management Plan Site Map Designer: John Smith Detailer: John Smith Sheet Subset: SWMP-SM | Structure Numbers Subset Sheets: 3 of 6 | Project No./Code TCSP M555-029 19365 Sheet Number 147 |
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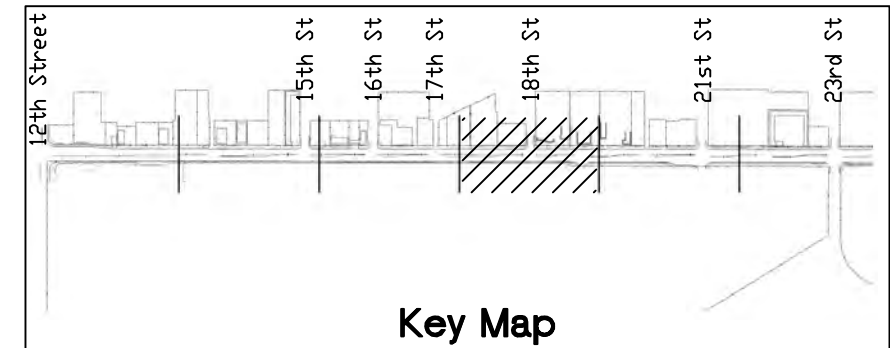
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STORM DRAIN INLET PROTECTION
(TYPE AS NOTED)



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| As Constructed |
| No Revisions: |
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| Void: |

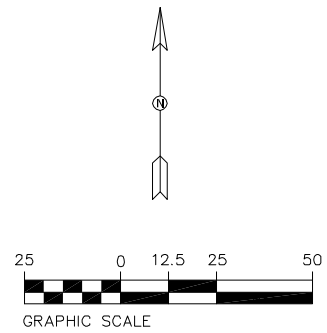
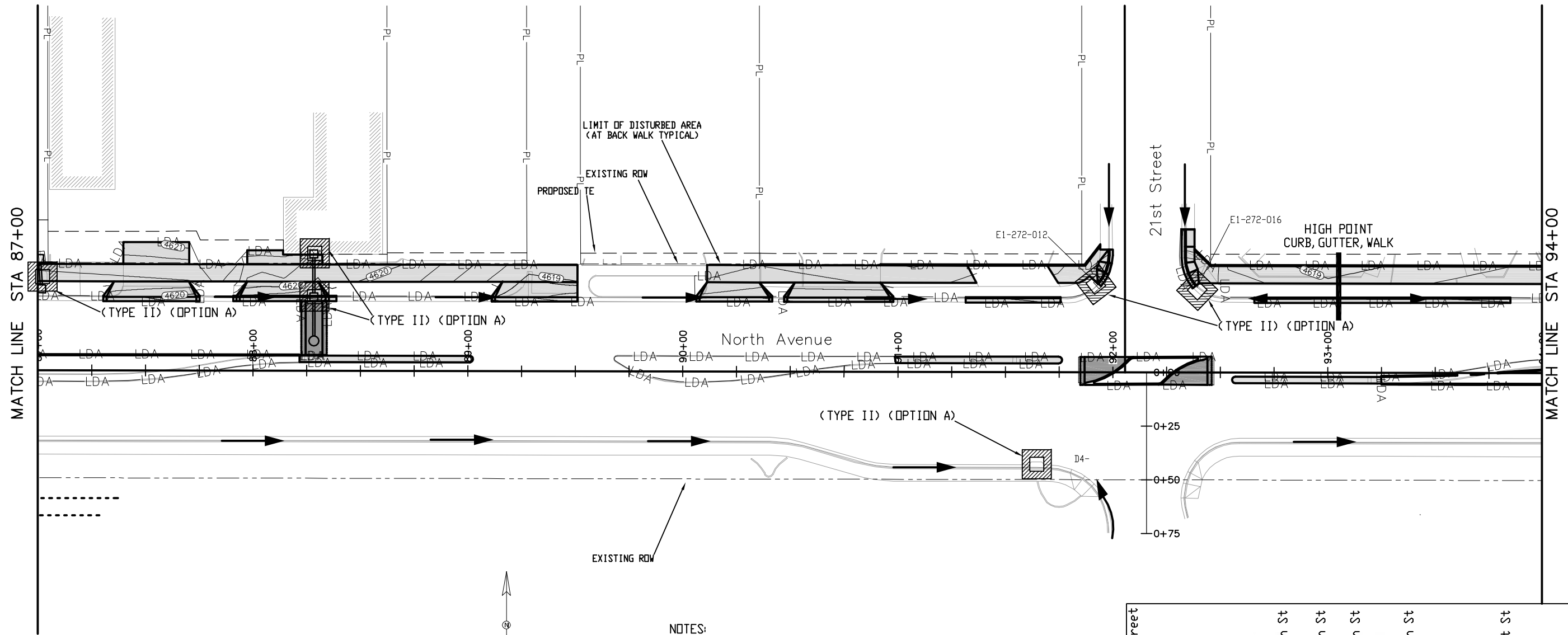
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| Storm Water Management Plan Site Map | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | |
| Sheet Subset: SWMP-SM | Subset Sheets: 4 of 6 |

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|-------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 148 |

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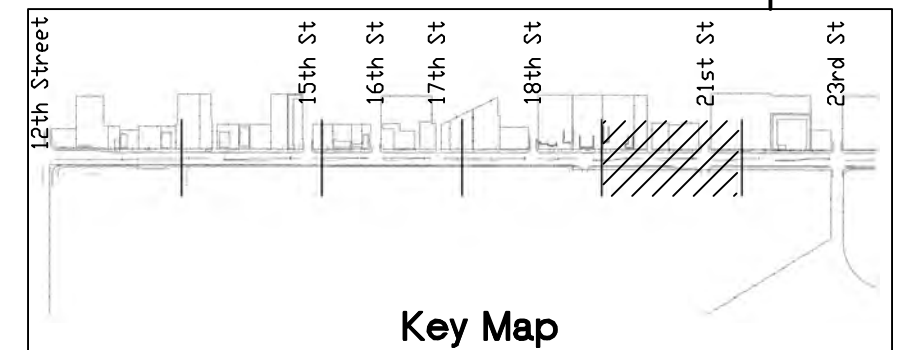
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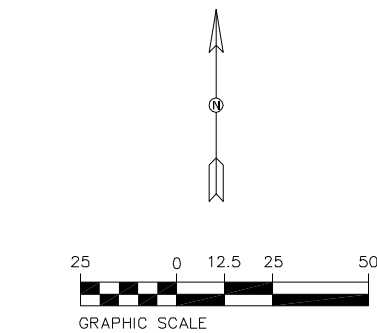
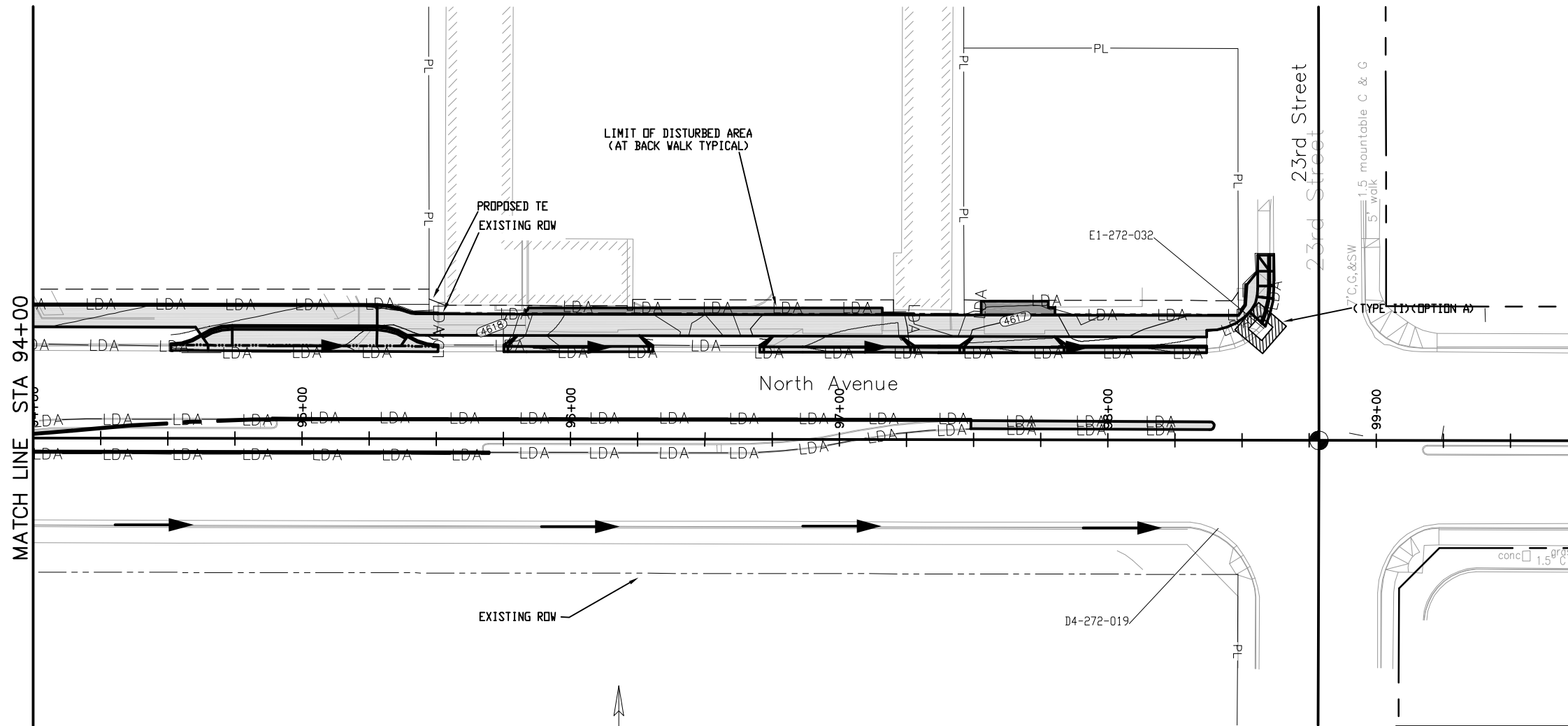
Key Map

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|--|---|--|-----------------|--|--|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------------|--|----------------------|-------------------|----------------------|-----------------------|-----------------------|--|---|
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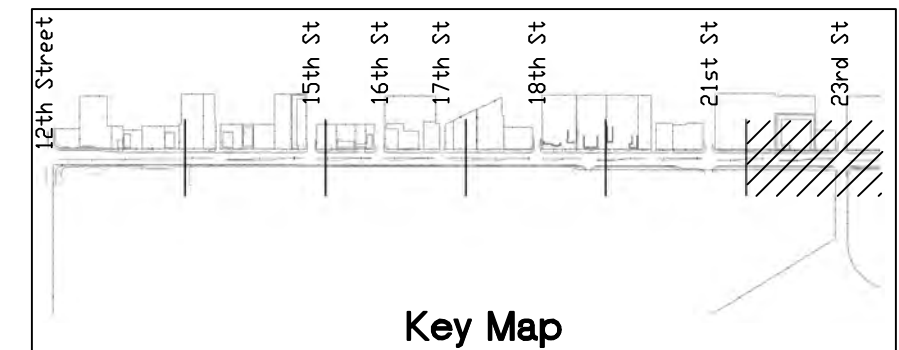
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LEGEND

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| Print Date: AT LEFT | 0000 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Storm Water Management Plan | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | No Revisions: | | Site Map | | TCSP M555-029 | | |
| Horiz. Scale: 1:50 | | | | | | Revised: | Designer: John Smith | Structure Numbers | 19365 | | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | Void: | Detailer: John Smith | Subset Sheets: | 6 of 6 | | | |
| | | | | | | Region 3 | RBB | Sheet Subset: SWMP-SM | Sheet Number 150 | | | |

LAYOUT NOTES

- Layout and verify dimensions prior to construction. Bring discrepancies to the attention of the Landscape Architect.
- Written dimensions take precedence over scale. Do not scale drawings.
- This drawing includes the dimensional controls for lighting fixtures and site improvements.
- Where dimensions are called as "equal," space referenced items equally, measured to their center lines.
- Measurements are to fixed site improvements from the defined road station points. Dimensions to center lines is indicated.
- Install intersecting elements at 90 degree angles to each other unless otherwise noted.
- Provide expansion joints where concrete flatwork meets vertical structures such as walls, curbs, steps and building elements.
- All lighting standards shall be set back 2'-0" clear from face of curb, and 1'-0" from edge of sidewalk. Lighting standards are approximately 100'-0" from each other, but default to drawings for final locations.
- All street furnishings to be verified on site prior to installation. Install benches and trash receptacles minimum 1'-0" off of edge of sidewalk.

LANDSCAPE PLANTING NOTES

- Source of base sheets is City of Grand Junction.
- Refer to Civil Engineer's utility and precise grading plans for utility location and final grading. If actual site conditions vary from what is shown on the plans, contact the Landscape Architect for direction as to how to proceed.
- Verify locations of pertinent site improvements installed under other sections. If any part of this plan cannot be followed due to site conditions, contact Landscape Architect for instructions prior to commencing work.
- Exact locations of plant materials to be approved by the Landscape Architect in the field prior to installation. Landscape Architect reserves the right to adjust plants to exact location in field.
- Verify plant counts and square footages. Quantities are provided as Owner information only. If quantities on plant list differ from graphic indications, then graphics shall prevail.
- Contact the local underground utility services for utility location and identification.
- Perform excavation in the vicinity of underground utilities with care and if necessary, by hand. The Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to the Owner.
- Trees shall bear same relation to finished grade as it bore to existing.
- Trees to be planted a minimum of 4 feet from face of building, or pavement, except as approved by Landscape Architect.
- Provide matching forms and sizes for plant materials within each species and size designated on the drawings.
- Prune newly planted trees only as directed by Landscape Architect.
- Align and equally space in all directions shrubs so designated per these notes and drawings.
- Finish grades of shrub areas and lawns shall be 1/2 inches below adjacent paving or header. (Check mulch depth and if seeded or sodded lawns).
- Provide specified edging as divider between planting beds and lawn areas.
- Provide burlap wrapping to second branch with 50% overlap.
- Cut and remove burlap from top 1/3 of ball.
- Landscape Architect to review plant materials at source or by photographs prior to digging or shipping of plant materials.

TABLE OF ABBREVIATIONS

| | | | |
|--------|--------------------------|-------|--------------------------|
| APPROX | APPROXIMATE | MH | MANHOLE |
| ARCH | ARCHITECT | MIN | MINIMUM |
| AVG | AVERAGE | MISC | MISCELLANEOUS |
| B&B | BALLED AND BURLAPPED | MTD | MOUNTED |
| BC | BOTTOM OF CURB | MTL | METAL |
| BF | BOTTOM OF FOOTING | N | NORTH |
| BLOG | BUILDING | NIC | NOT IN CONTRACT |
| BM | BENCHMARK | NO | NUMBER |
| BOC | BACK OF CURB | NOM | NOMINAL |
| BR | BOTTOM OF RAMP | NTS | NOT TO SCALE |
| BRG | BEARING | OC | ON CENTER |
| BS | BOTTOM OF STEP | OD | OUTSIDE DIAMETER |
| BW | BOTTOM OF WALL | OPP | OPPOSITE |
| CAL | CALIPER | PAR | PARALLEL |
| CAP | CAPACITY | PC | POINT OF CURVATURE |
| CF | CUBIC FEET | PE | POLYURETHANE |
| CHAM | CHAMFER | PERF | PERFORATED |
| CIP | CAST IN PLACE | PEST | PEDESTRIAN |
| CJ | CONTROL JOINT | PI | POINT OF INTERSECTION |
| CL | CENTER LINE | PL | PROPERTY LINE |
| CLR | CLEARANCE | PT | POINT, POINT OF TANGENCY |
| CM | CENTIMETER | PVC | POLYVINYL CHLORIDE |
| CO | CLEAN OUT | PVT | PAVEMENT |
| COMP | COMPACTED | PVR | PAVER |
| CONC | CONCRETE | QTY | QUANTITY |
| CONST | CONSTRUCTION | R | RADIUS |
| CONT | CONTINUOUS | RECEP | RECEPTACLE |
| CONTR | CONTRACTOR | REF | REFERENCE |
| CU | CUBIC | REINF | REINFORCE(D) |
| CY | CUBIC YARD | REM | REMOVE |
| DBL | DOUBLE | REQ'D | REQUIRED |
| DF | DIRECTION OF FLOW | REV | REVISION, REVISED |
| DEG | DEGREE | ROW | RIGHT OF WAY |
| DEMO | DEMOLISH, DEMOLITION | RT | RIGHT |
| DI | DIAMETER | S | SOUTH |
| DIM | DIMENSION | SAN | SANITARY |
| DTL | DETAIL | SCH | SCHEDULE |
| DWG | DRAWING | SD | STORM DRAIN |
| E | EAST | SEC | SECTION |
| EA | EACH | SF | SQUARE FOOT (FEET) |
| EJ | EXPANSION JOINT | SHT | SHEET |
| EL | ELEVATION | SI | STORM INLET |
| ELEC | ELECTRICAL | SIM | SIMILAR |
| ENG | ENGINEER | SNT | SEALANT |
| EQ | EQUAL | SPTS | SPECIFICATIONS |
| EQUIP | EQUIPMENT | SQ | SQUARE |
| EST | ESTIMATE | ST | STORM SEWER |
| E.W. | EACH WAY | SY | SQUARE YARD |
| EXIST | EXISTING | STA | STATION |
| EXP | EXPANSION, EXPOSED | STD | STANDARD |
| FF | FINISHED FLOOR ELEVATION | STL | STEEL |
| FG | FINISHED GRADE | STR | STRUCTURAL |
| FIN | FINISH | SYM | SYMMETRICAL |
| FL | FLOW LINE | T&B | TOP AND BOTTOM |
| FOC | FACE OF CURB | TBC | TOP OF BACK CURB |
| FT | FOOT (FEET) | TC | TOP OF CURB |
| FTG | FOOTING | TF | TOP OF FOOTING |
| GA | GAUGE | THK | THICK |
| GAL | GALVANIZED | TOC | TOP OF CONCRETE |
| GC | GENERAL CONTRACTOR(OR) | TOPO | TOPOGRAPHY |
| GEN | GENERAL | TSL | TOP OF SLAB |
| HORIZ | HORIZONTAL | TRAS | TRANSFORMER |
| HP | HIGH POINT | TR | TOP OF RAMP |
| HT | HEIGHT | TS | TOP OF STEP |
| ID | INSIDE DIAMETER | TW | TOP OF WALL |
| INV | INVERT ELEVATION | TYP | TYPICAL |
| IN | INCHES | VAR | VARIABLE |
| INCL | INCLUDE(D) | VERT | VERTICAL |
| INL | INLET | VEH | VEHICLE |
| IRR | IRRIGATION | VOL | VOLUME |
| JT | JOINT | W | WITH |
| LIN | LINEAR | WO | WITHOUT |
| LF | LINEAR FEET | WT | WEIGHT |
| LP | LOW POINT | WL | WEIR LEVEL |
| LT | LIGHT | WWF | WELDED WIRE FABRIC |
| MATL | MATERIAL | YD | YARD |
| MAX | MAXIMUM | @ | AT |
| MEMB | MEMBRANE | | |

SHRUB/GROUNDCOVER PLANTING KEY

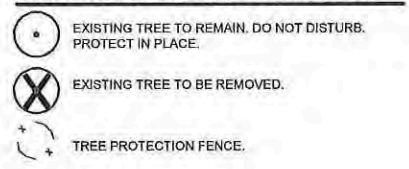
| ABBR. | BOTANICAL NAME | COMMON NAME | SIZE | QTY |
|--------------|-------------------------------------|--------------------|----------------|-----|
| TREES | | | | |
| GS | <i>Zelkova serrata</i> 'Green Vase' | Green Vase Zelkova | 2.5"-3.5" CAL. | 42 |
| PA | <i>Populus x acerifolia</i> | London Planetree | 2.5"-3.5" CAL. | 17 |
| PC | <i>Pistacia chinensis</i> | Chinese Pistachio | 2.5"-3.5" CAL. | 18 |
| UF | <i>Ulmus</i> 'Frontier' | Frontier Elm | 2.5"-3.5" CAL. | 35 |

| DECIDUOUS & EVERGREEN SHRUBS | | | | |
|---|---|--------------------------------|--------|-----|
| PF | <i>Potentilla fruticosa</i> 'McKay's White' | McKay's White Potentilla | 5 GAL. | 68 |
| JC | <i>Juniperus communis</i> Alpine Carpet | Alpine Carpet Juniper | 5 GAL. | 114 |
| PB | <i>Prunus besseyi</i> Pawnee Buttes | Creeping Western Sand Cherry | 5 GAL. | 71 |
| VQ | <i>Viburnum opulus</i> 'Compactum' | Compact European Cranberrybush | 5 GAL. | 42 |

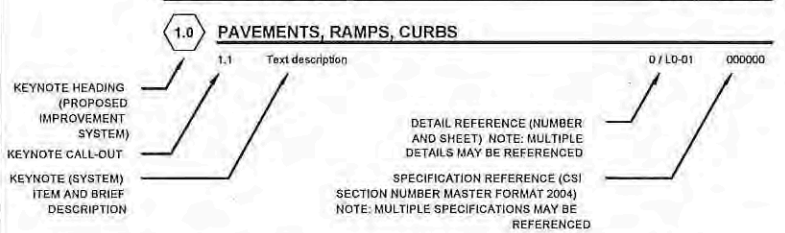
| PERENNIALS AND GRASSES | | | | |
|-------------------------------|----------------------------------|------------------------------------|--------|----|
| CA | <i>Calamagrostis arandifolia</i> | 'Karl Foerster' Feather Reed Grass | 1 GAL. | 97 |

| GRASSES, SEED MIXES, MULCHES AND EDGING | | | | |
|--|-----------------|---------------------------------|------|-----------|
| | Turfgrass | Kentucky Bluegrass | Seed | 24,380 SF |
| | Inorganic Mulch | Rock Material (Assume 4" depth) | | 483 CY |

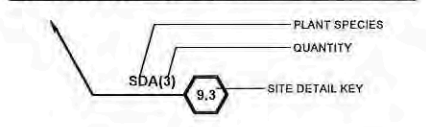
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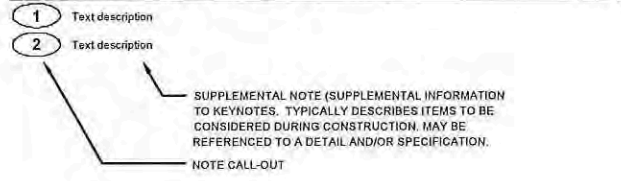
SITE KEYNOTES:



PLANT KEYNOTES:



SITE REFERENCE NOTES



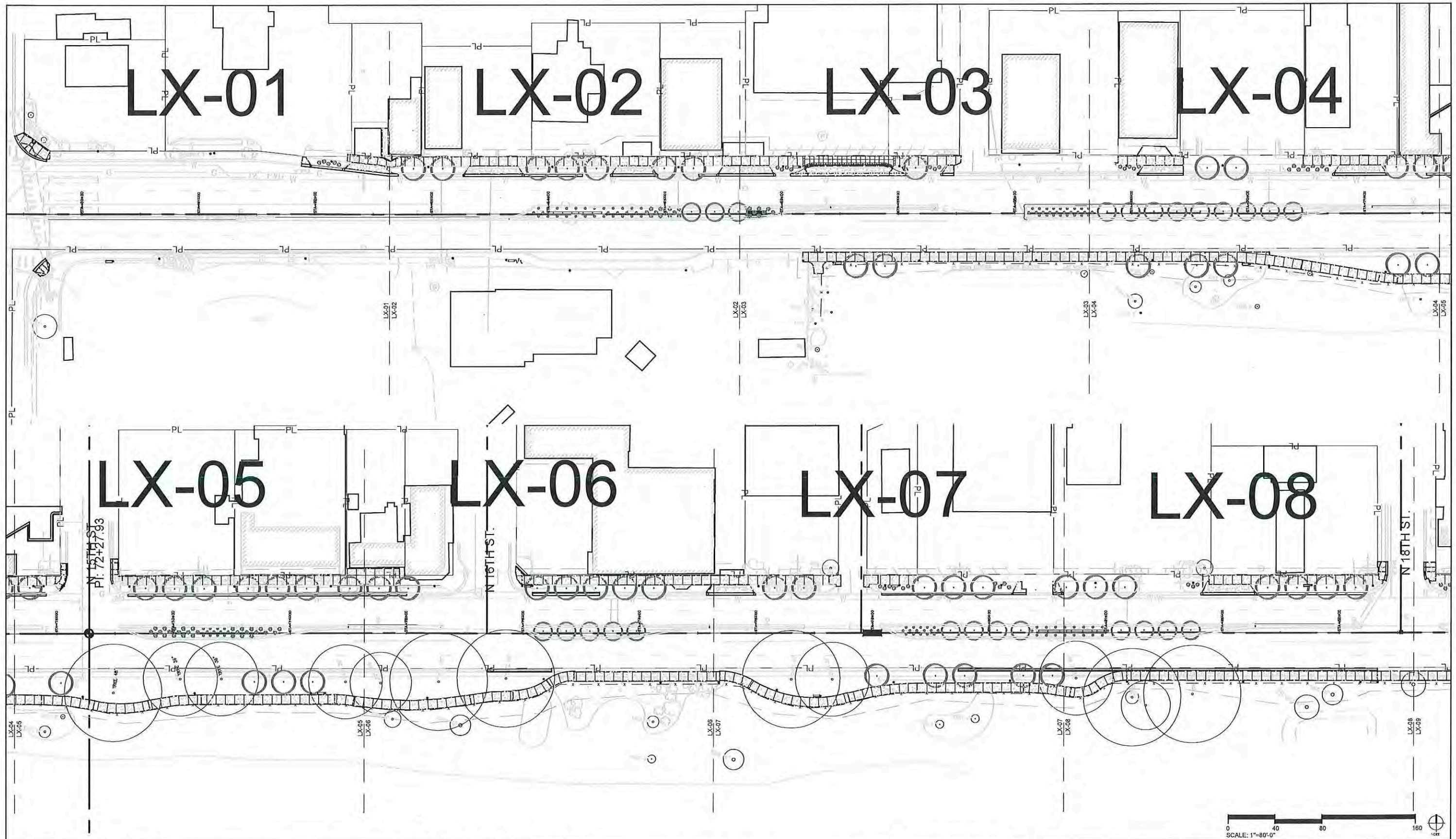
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 Aspen, Colorado 81611-1787
 (970)-925-8354
 WWW.DESIGNWORKSHOP.COM

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|----------------|------------------------|---------------------|-------------------------|
| No Revisions: | | | TCSP M555-029 |
| Revised: | Designer: Mike Albert | Structure Numbers | 19365 |
| Void: | Detailer: Ashley Allis | Subst Sheets: L0-00 | Sheet Number 151 |



Print Date: AUGUST 21, 2015
 File Name: A:\14_15_16-F-1911-1-23-C-31-2015-Final-Complete-Set-CDOT-Submittal-Sub-Calendar-Information.dwg
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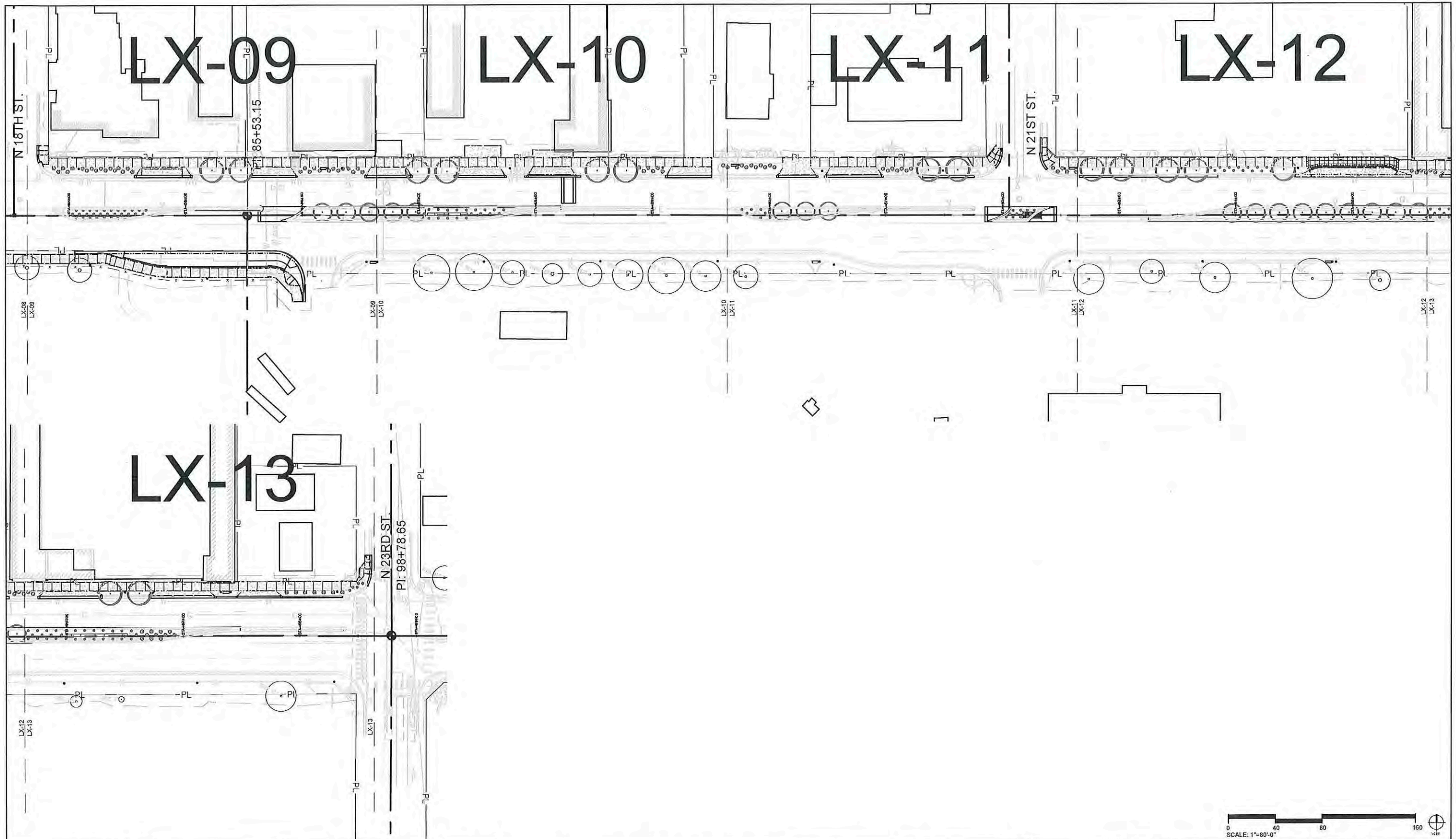
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 Detailer: Ashley Allis
 Sheet Subset: KEY PLAN
 Structure Numbers
 Subset Sheets: L0-01

Project No./Code
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 Sheet Number **152**



Print Date: AUGUST 21, 2015
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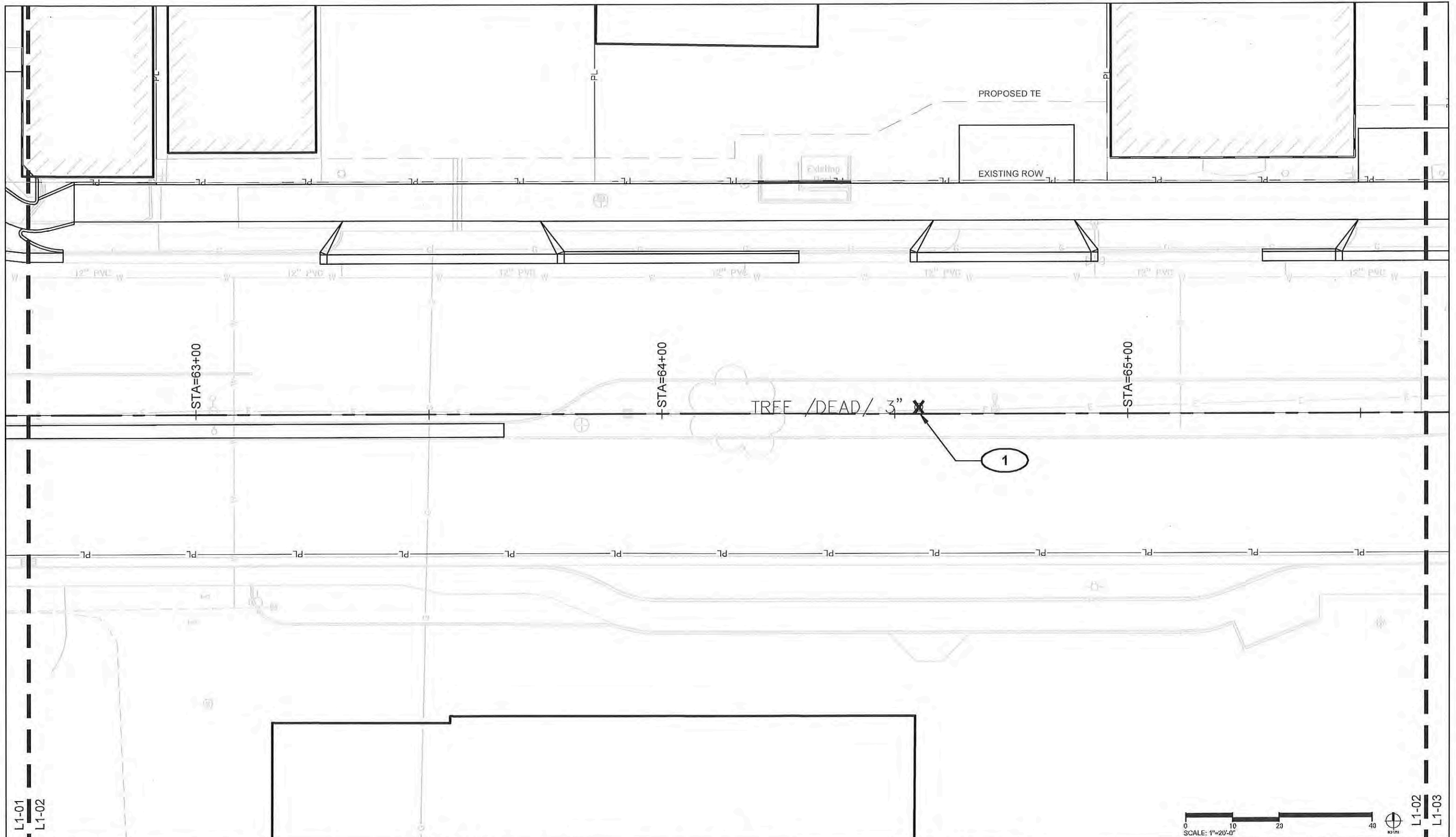
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 Region 3 RBB

As Constructed
 No Revisions:
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 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: KEY PLAN
 Structure Numbers
 Subset Sheets: L0-02

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **153**



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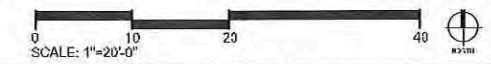
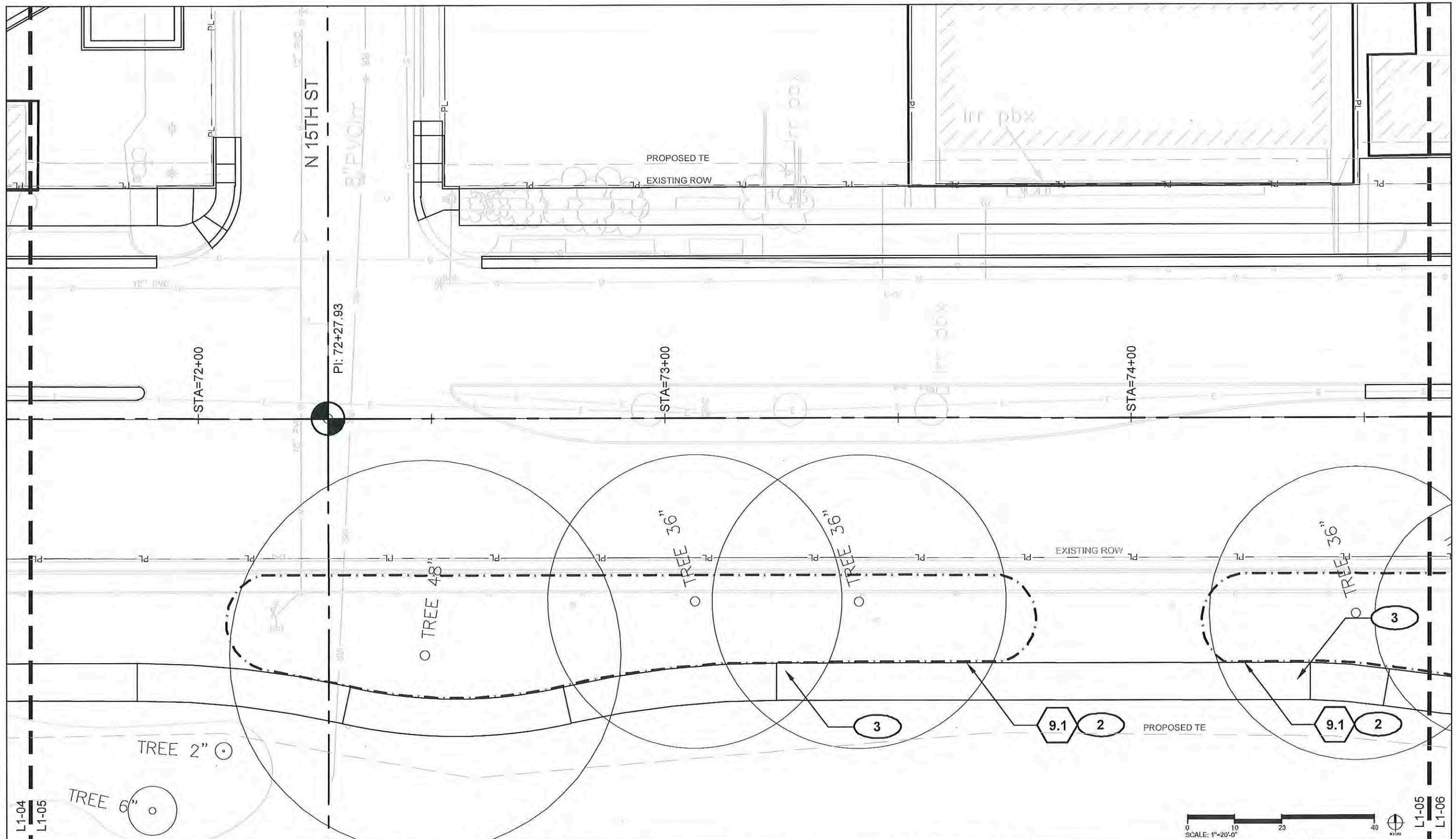
Landscape Plans

| | |
|-------------------------------|----------------------|
| Designer: Mike Albert | Structure Numbers |
| Detailer: Ashley Allis | Subset Sheets: L1-02 |
| Sheet Subset: TREE PROTECTION | |

Project No./Code
 TCSP M555-029
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 Sheet Number **156**


L1-01
L1-02

L1-02
L1-03



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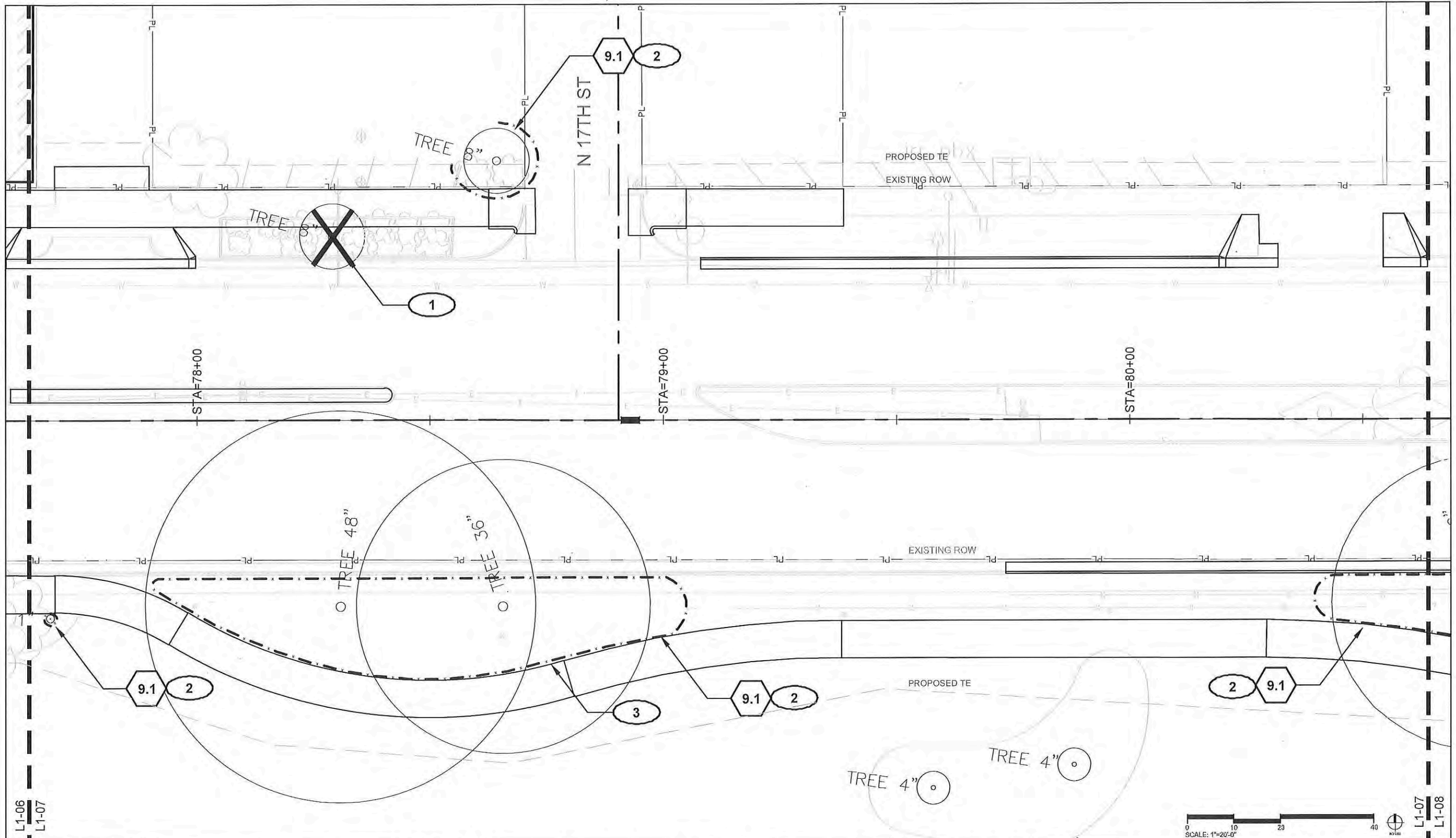
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-05

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **159**



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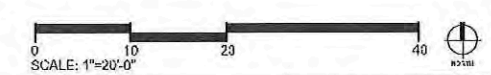
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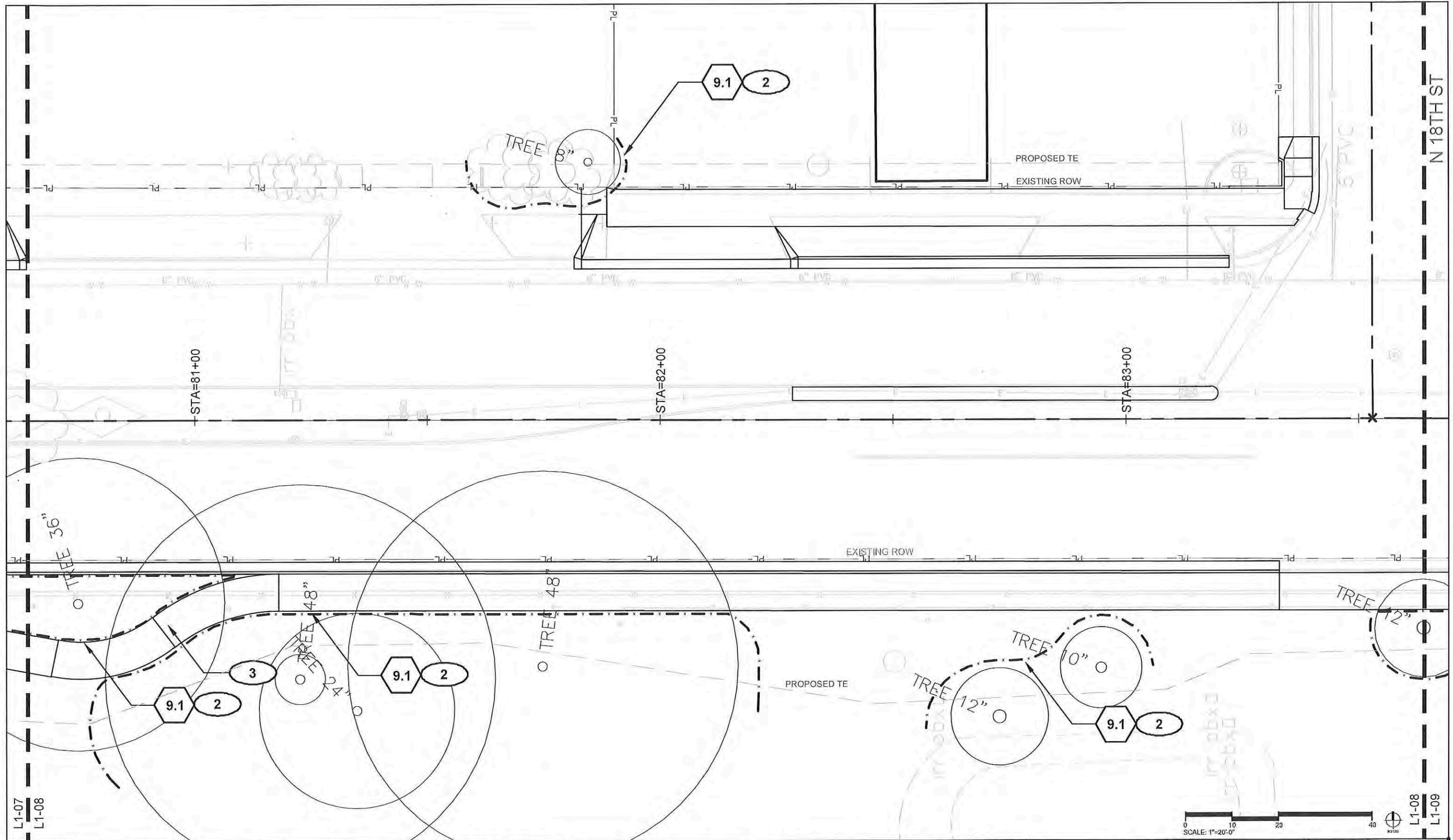
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-07

Project No./Code
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 19365
 Sheet Number **161**





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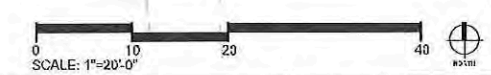
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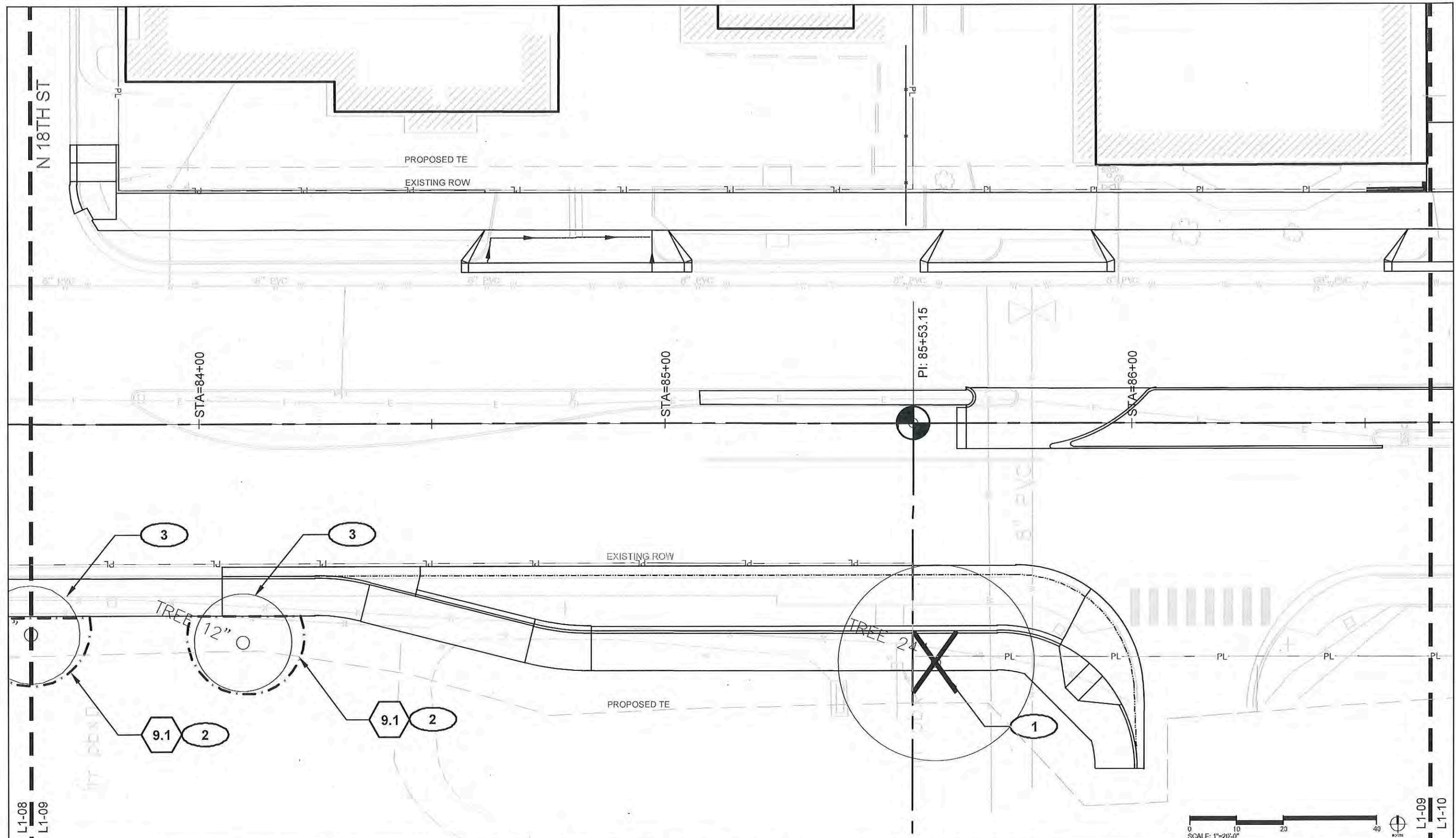
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 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-08

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **162**



L1-07
L1-08

L1-08
L1-09



L1-08
L1-09

L1-09
L1-10



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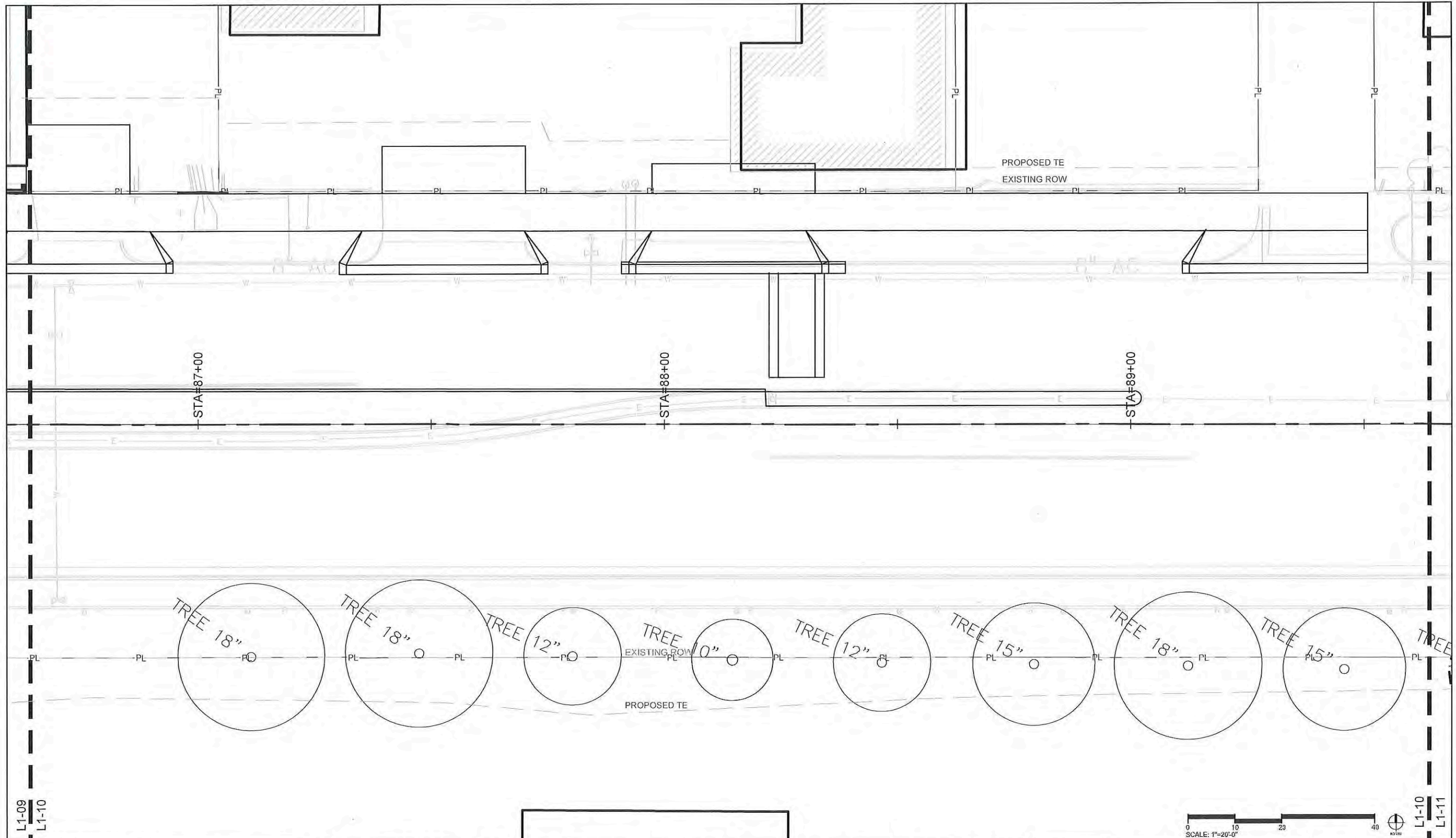
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-09

Project No./Code
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 Sheet Number **163**

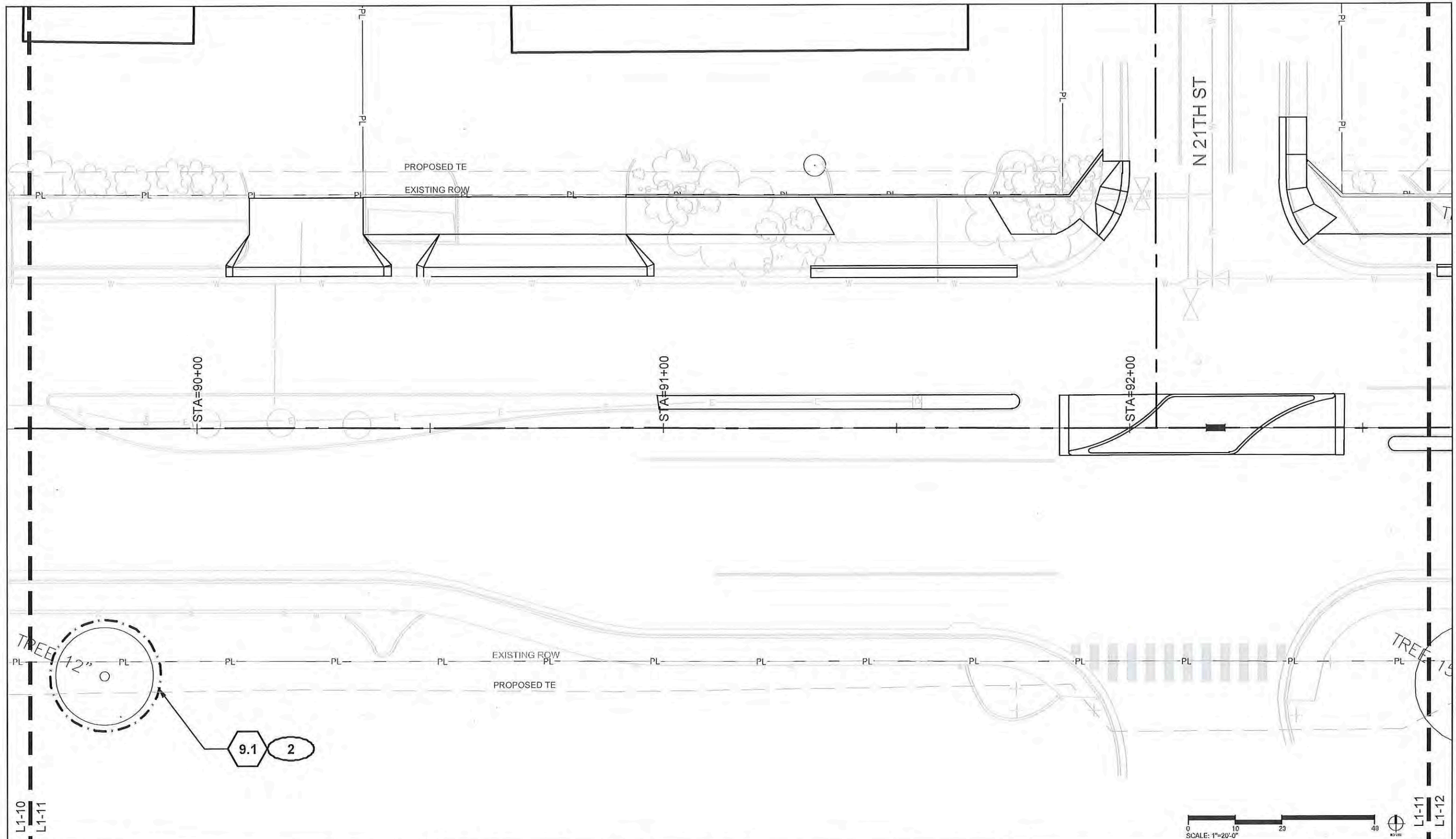


L1-09
L1-10

L1-10
L1-11




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| | RBB | Structure Numbers Subset Sheets: L1-10 | | | | | | | | | | | | | | | | | | |



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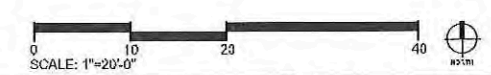
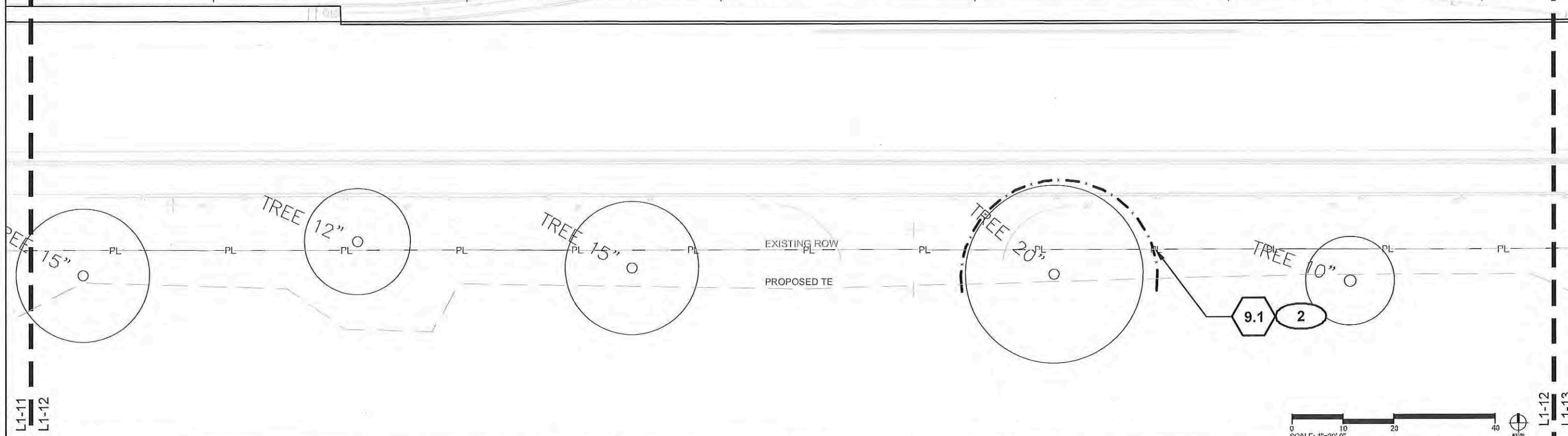
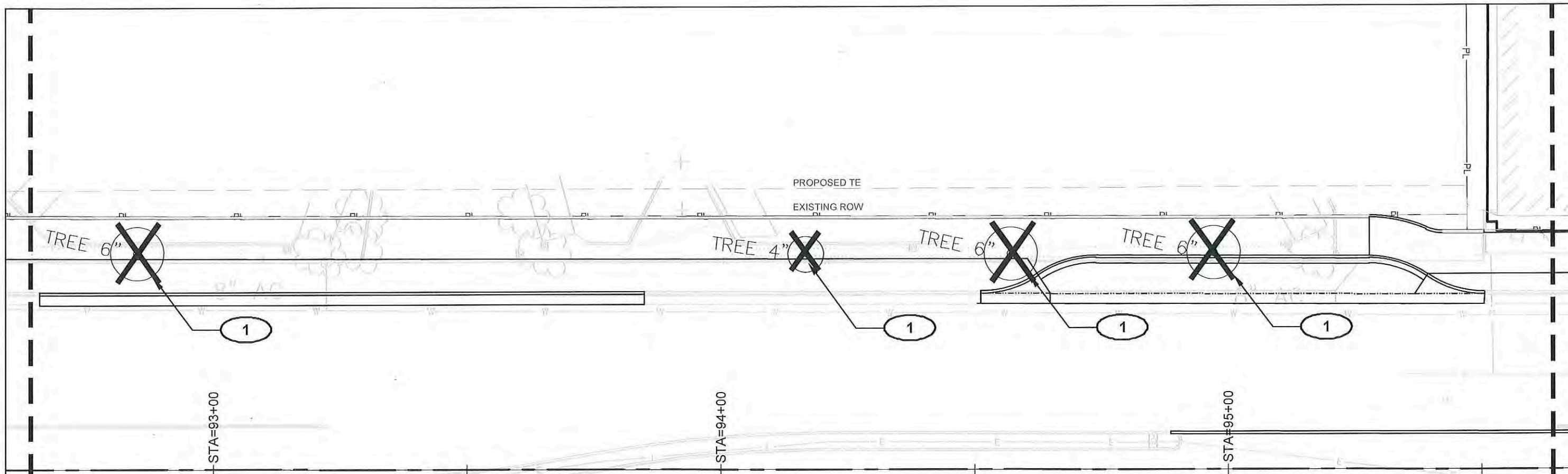
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-11

Project No./Code
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 19365
 Sheet Number **165**



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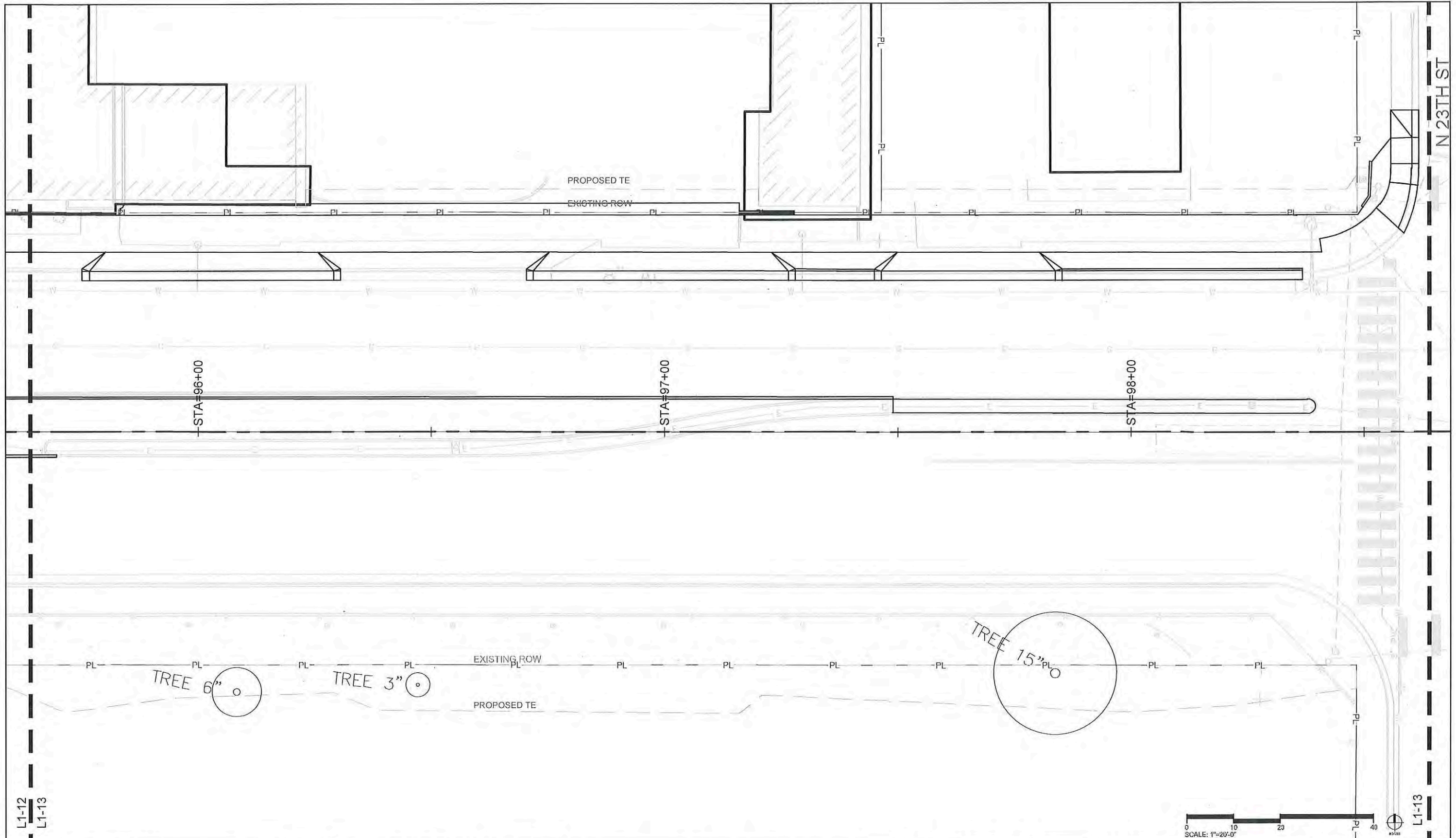
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-12

Project No./Code
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 Sheet Number **166**



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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: TREE PROTECTION
 Structure Numbers
 Subset Sheets: L1-13

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **167**

TABULATION OF URBAN DESIGN FEATURES

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | AS CONST. |
|-----------|----------------------------|------|----------|-----------|
| 607-20000 | SAFETY SCREEN | EA | 590 | |
| 607-53160 | FENCE CHAIN LINK (60 INCH) | LF | 2021 | |
| 622-00010 | BICYCLE RACK | EA | 6 | |
| 622-00251 | BENCH | EA | 19 | |
| 622-00350 | TRASH RECEPTACLE | EA | 19 | |

SITE KEYNOTES:

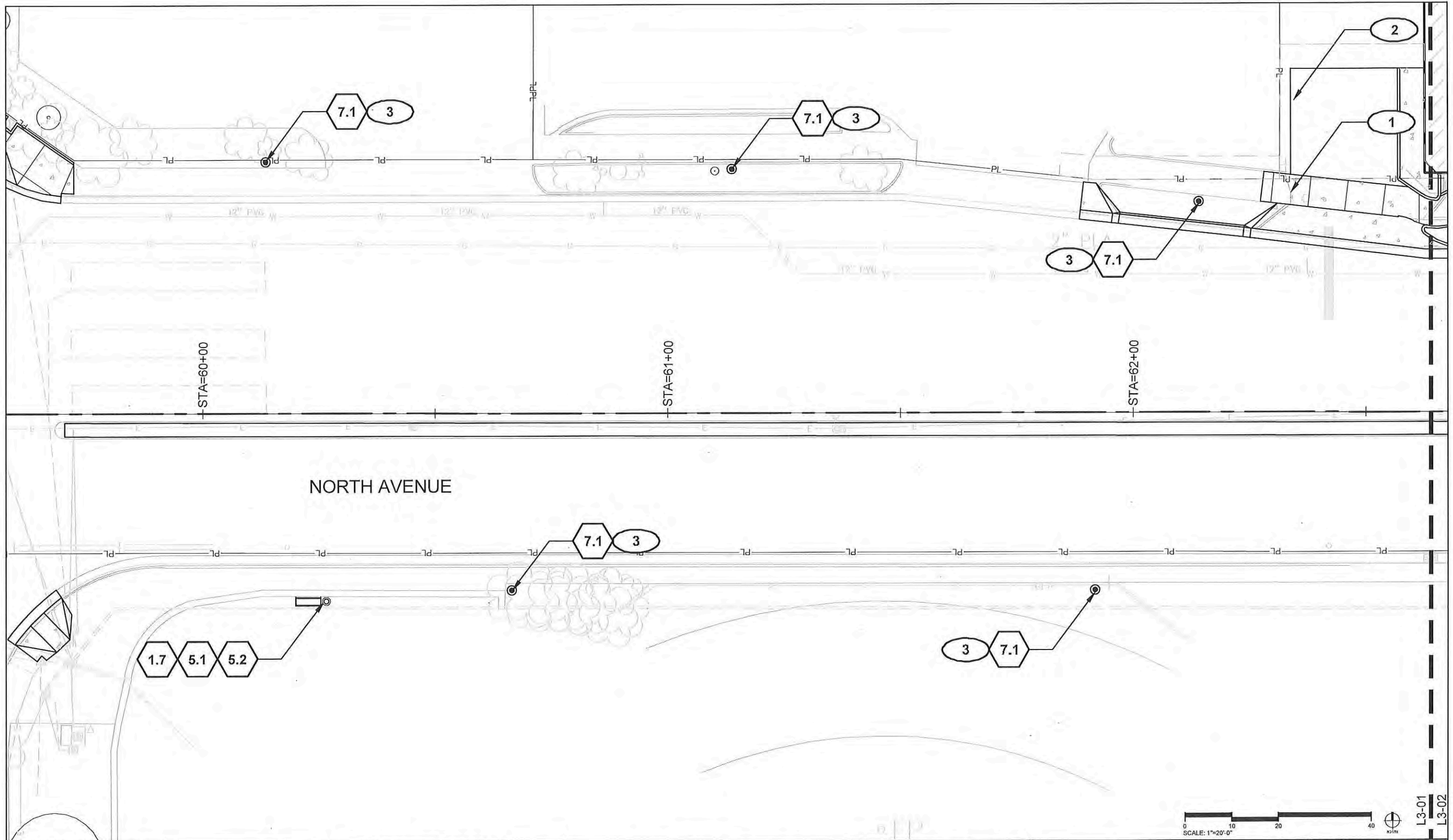
DETAIL / SHEET

| | | |
|-------------|--|-------------------|
| 1.0 | PAVEMENTS, RAMPS, CURBS | |
| 1.1 | Concrete Paving Type 1 (pedestrian) | See Civil Details |
| 1.2 | Concrete Paving Type 2 (pedestrian-enhanced) | See Civil Details |
| 1.3 | Concrete Paving Type 3 (vehicular access) | See Civil Details |
| 1.4 | Concrete Curb and Gutter | See Civil Details |
| 1.5 | ADA Ramp | See Civil Details |
| 1.6 | Not included at this time | |
| 1.7 | Concrete Slab | 01/L7-03 |
| 2.0 | JOINTING | |
| | Not Used at this Time | |
| 3.0 | STEPS | |
| | Not Used at this Time | |
| 4.0 | SITE WALLS/ EMBANKMENTS | |
| | Not Used at this Time | |
| 5.0 | SITE FURNITURE | |
| 5.1 | Bench | 01/L7-01 |
| 5.2 | Trash Receptacle | 02/L7-01 |
| 5.3 | Bike Rack | 03/L7-01 |
| 5.4 | Newspaper Box | 01/L7-02 |
| 6.0 | RAILINGS, BARRIERS, FENCING | |
| 6.1 | Chain Link Fence | 04/L7-01 |
| 6.2 | Safety Screen (locations only) | By others |
| 7.0 | SITE LIGHTING | |
| 7.1 | Pedestrian Lighting | By others |
| 7.2 | Pedestrian Lighting in Paving | By others |
| 8.0 | DRAINAGE | |
| | Not Used at this Time | |
| 9.0 | PLANTING AND LANDSCAPE | |
| | Refer to Planting Plans | |
| 10.0 | MISCELLANEOUS ELEMENTS | |
| 10.1 | Art Piece - Typical | 1/L7-04 |
| 10.2 | Bus Pullout - Typical | 2/L7-03 |
| 10.3 | Art Piece - 1 | 1/L7-05 |
| 10.4 | Art Piece - 2 | 2/L7-05 |
| 10.5 | Art Piece - 3 | 1/L7-06 |
| 10.6 | Art Piece - 4 | 2/L7-06 |

SITE MATERIAL REFERENCE NOTES:

- PA Planting Area
- ① Proposed concrete paving. See Civil Drawings.
- ② Proposed asphalt paving. See Civil Drawings.
- ③ Pedestrian lights by others.

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| File Name: A:\14_2015-FS\1.mxd | | Date: | Comments: | Init. | | | Designer: Mike Albert Detailer: Ashley Allis Sheet Subset: MATERIALS | Structure Numbers Subset Sheets: L3-00 | TCSP M555-029 |
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Landscape Plans

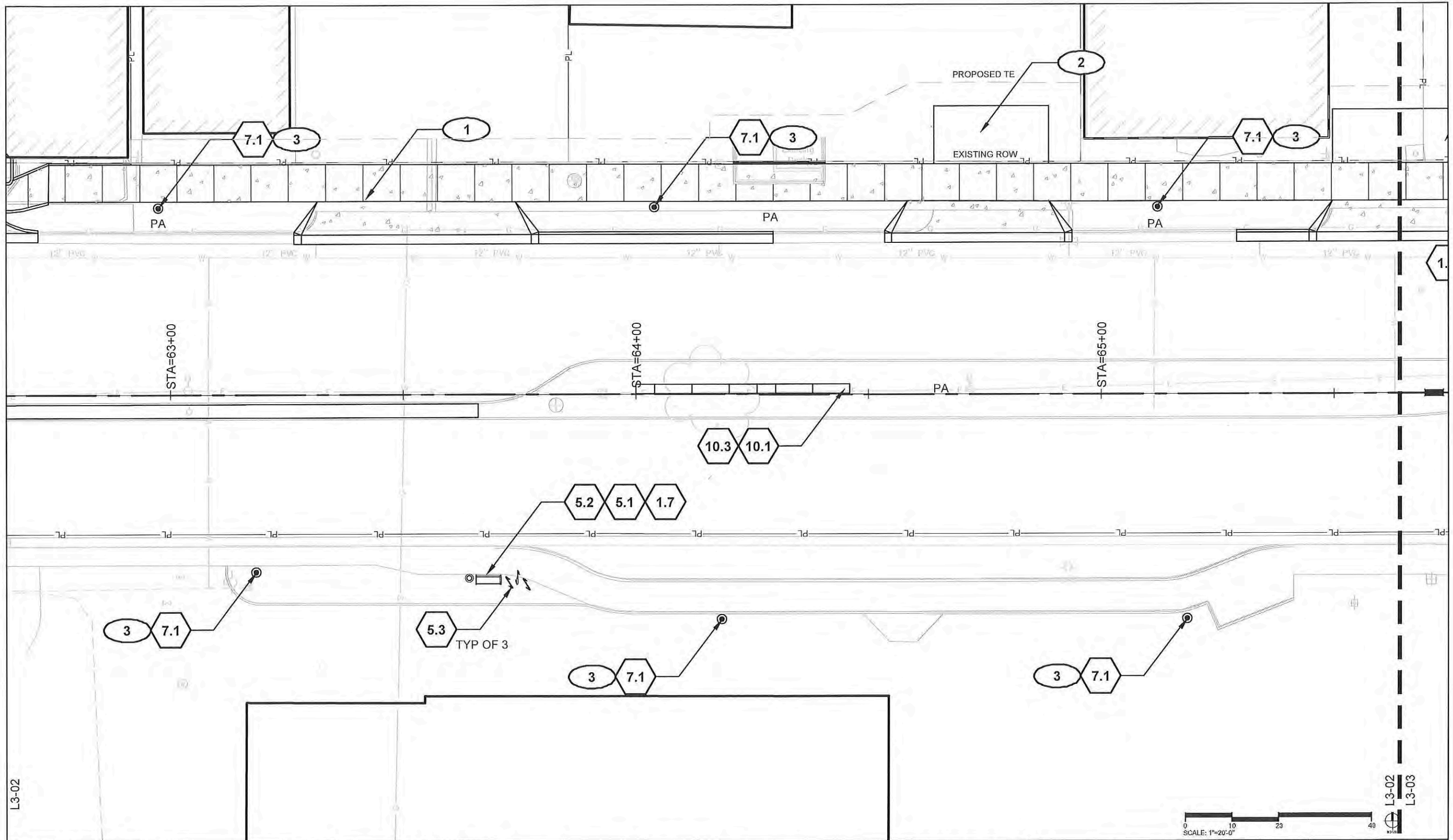
Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS

Structure Numbers
 Subset Sheets: L3-01

Project No./Code
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 19365
 Sheet Number **169**



L3-01
 L3-02



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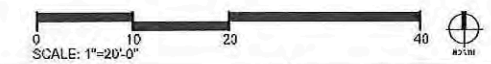
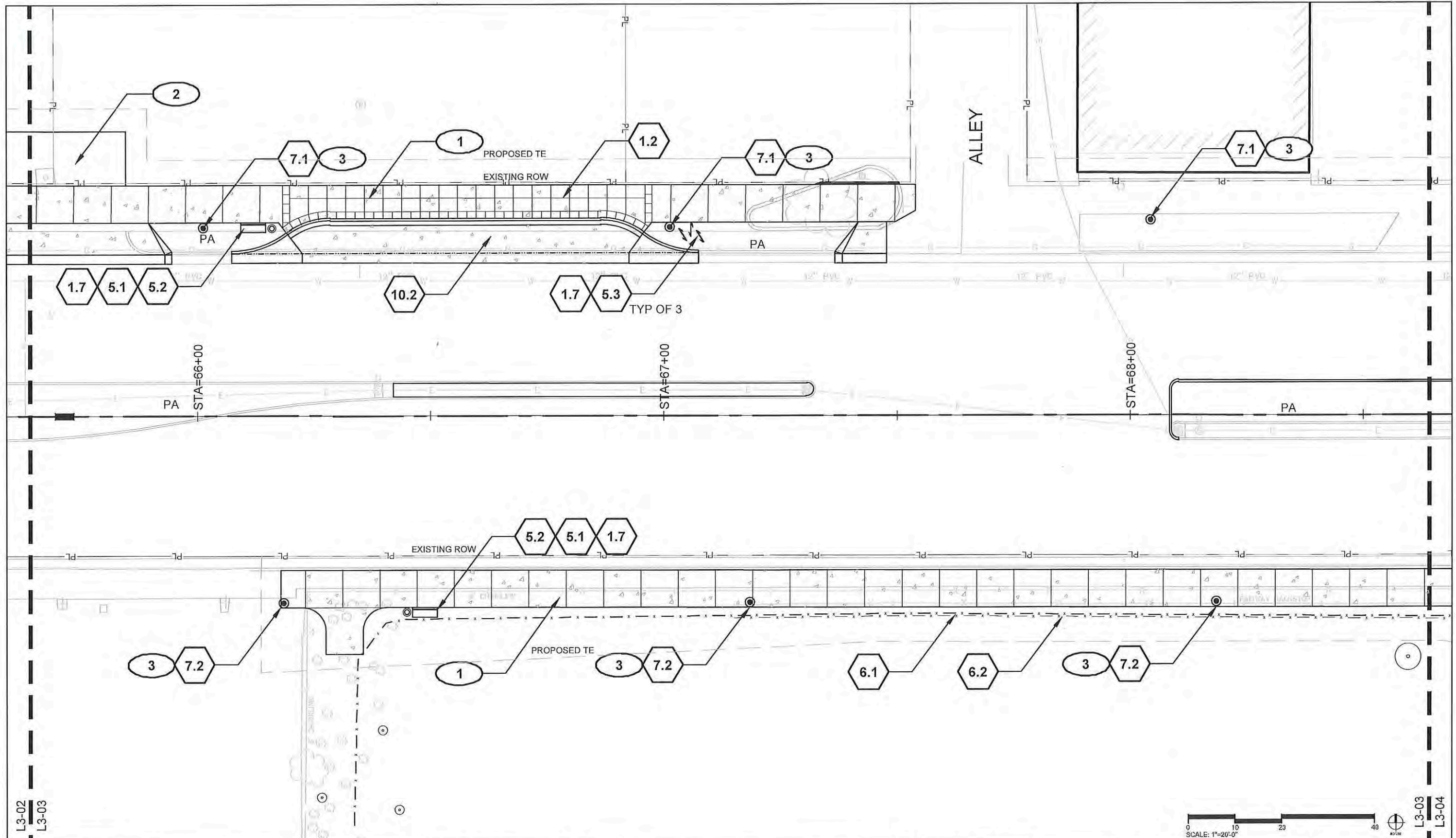
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-02

Project No./Code
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 Sheet Number **170**


L3-02

L3-02
 L3-03



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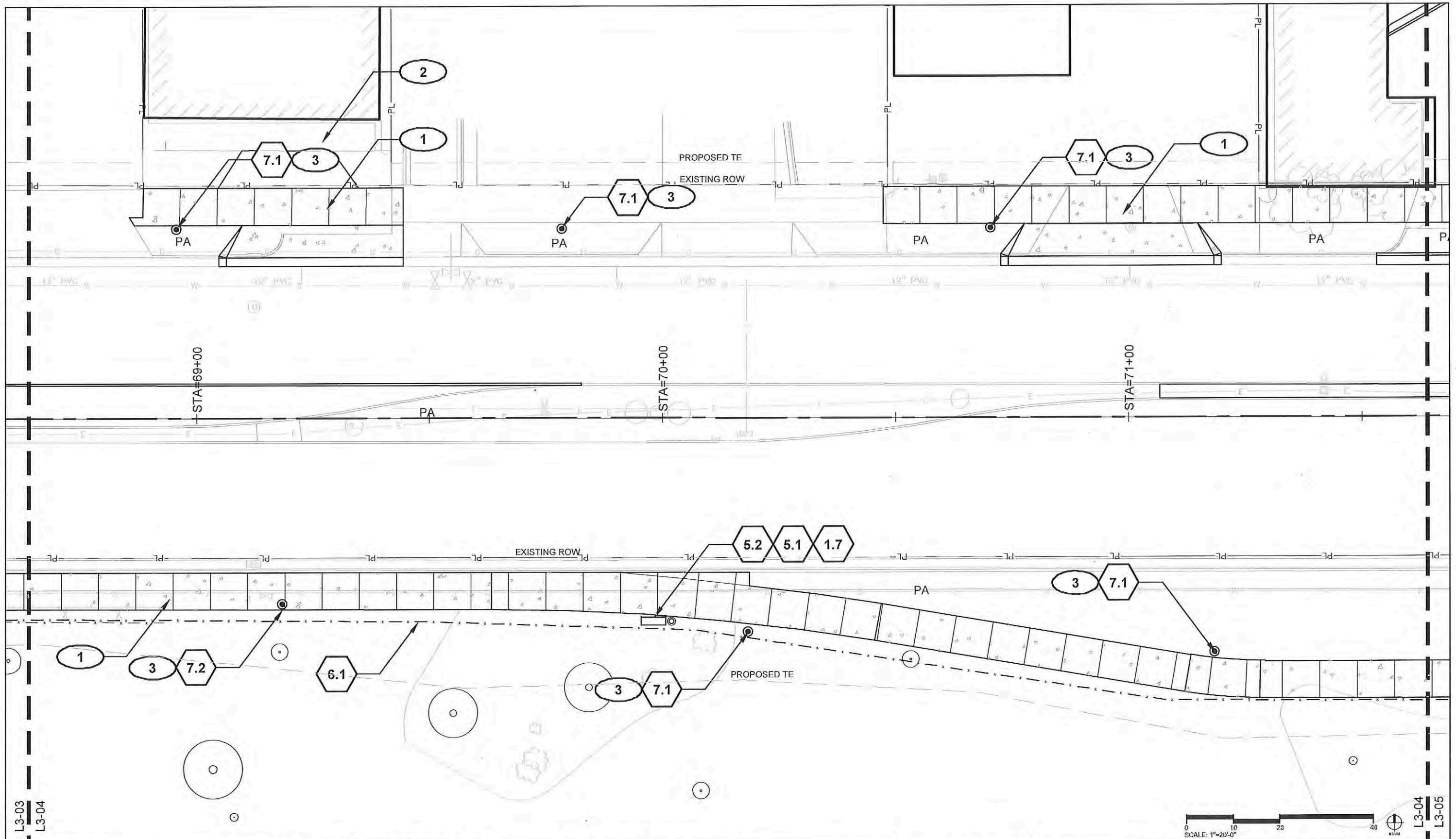
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-03

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 Sheet Number **171**

L3-02
 L3-03

L3-03
 L3-04



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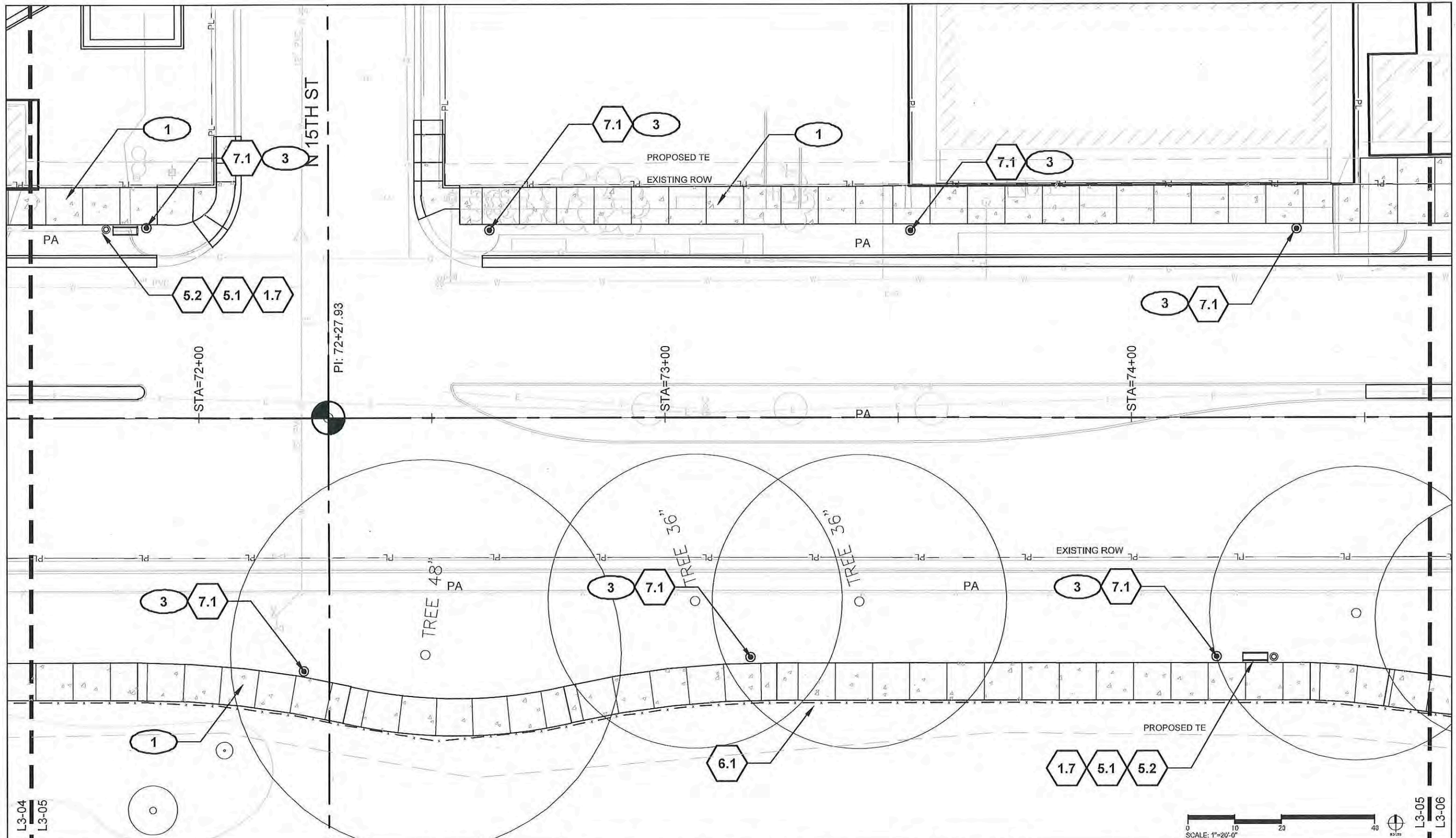
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:


Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-04

Project No./Code
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 19365
 Sheet Number **172**



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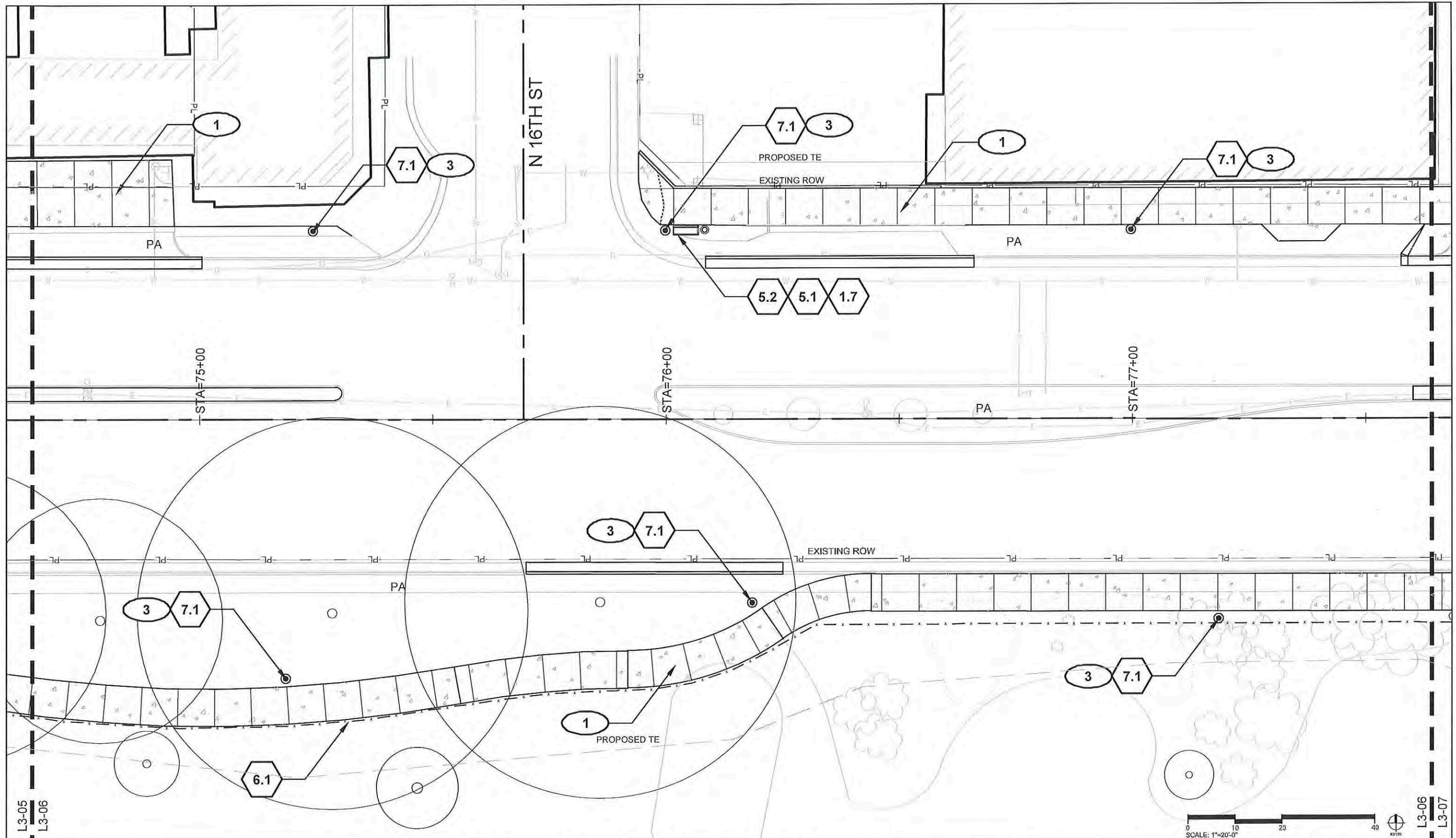
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-05

Project No./Code
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 Sheet Number **173**



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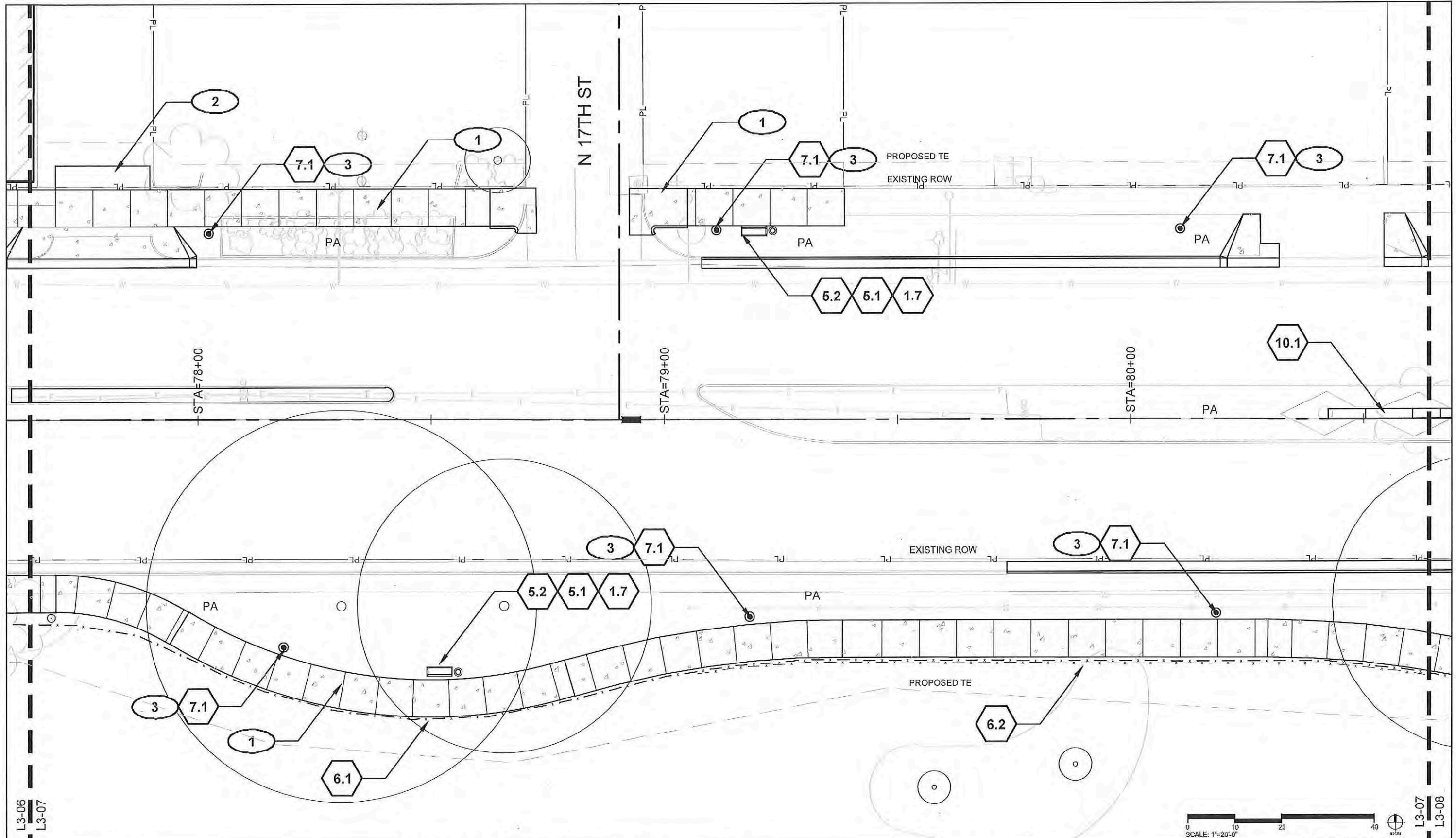
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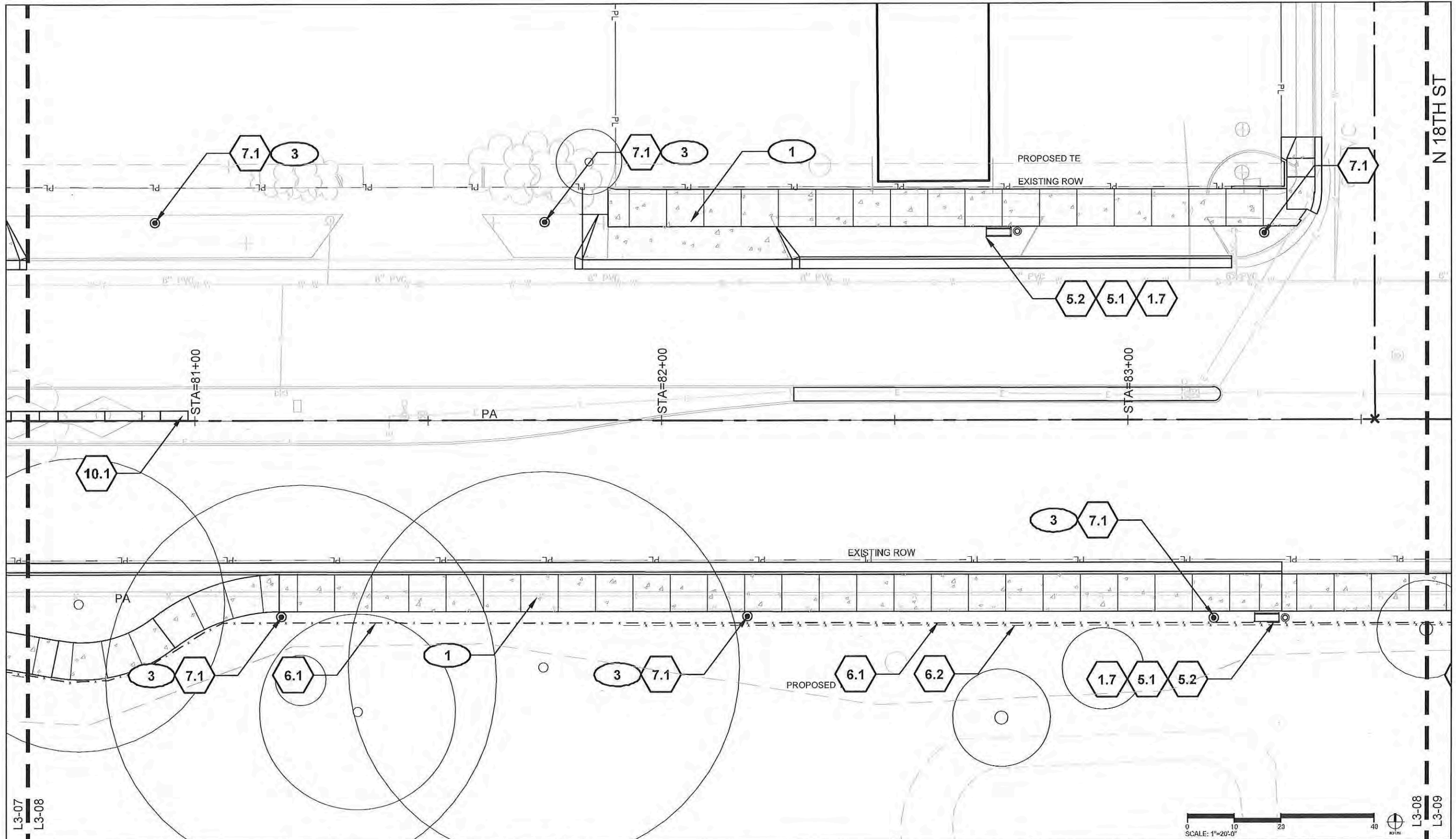
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 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-06

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 Sheet Number **174**



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| |  | Date: | Comments | | | Init. | Designer: Mike Albert Detailer: Ashley Allis Sheet Subset: MATERIALS | |

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| Date: | Comments | Init. |
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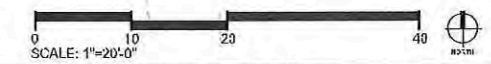
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 Region 3 RBB

As Constructed
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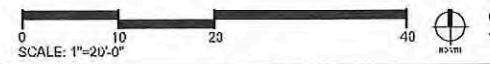
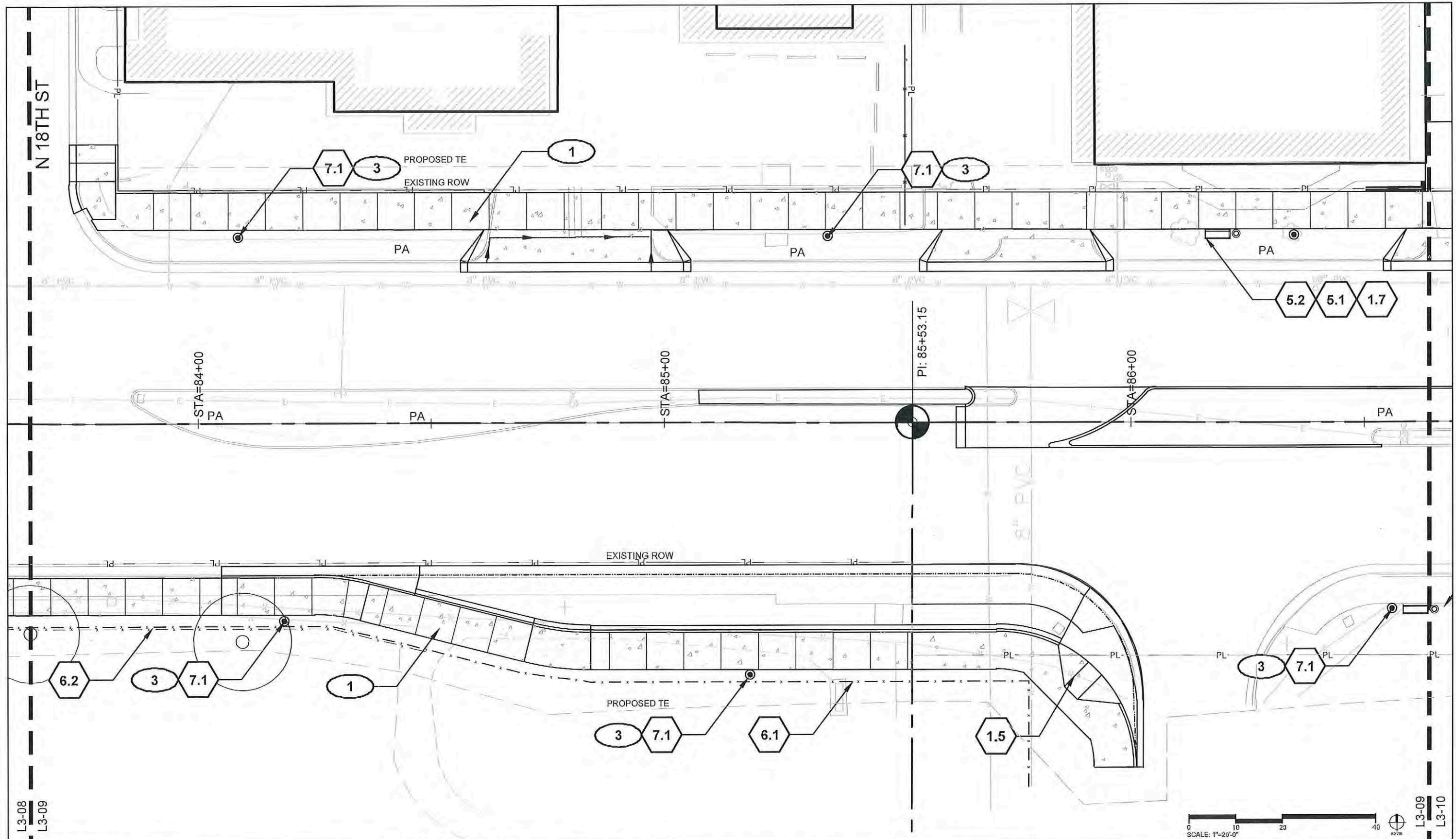
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 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-08

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **176**



L3-07
L3-08

L3-08
L3-09



Print Date: AUGUST 21, 2015

File Name: A:\14_2015-154.mxd

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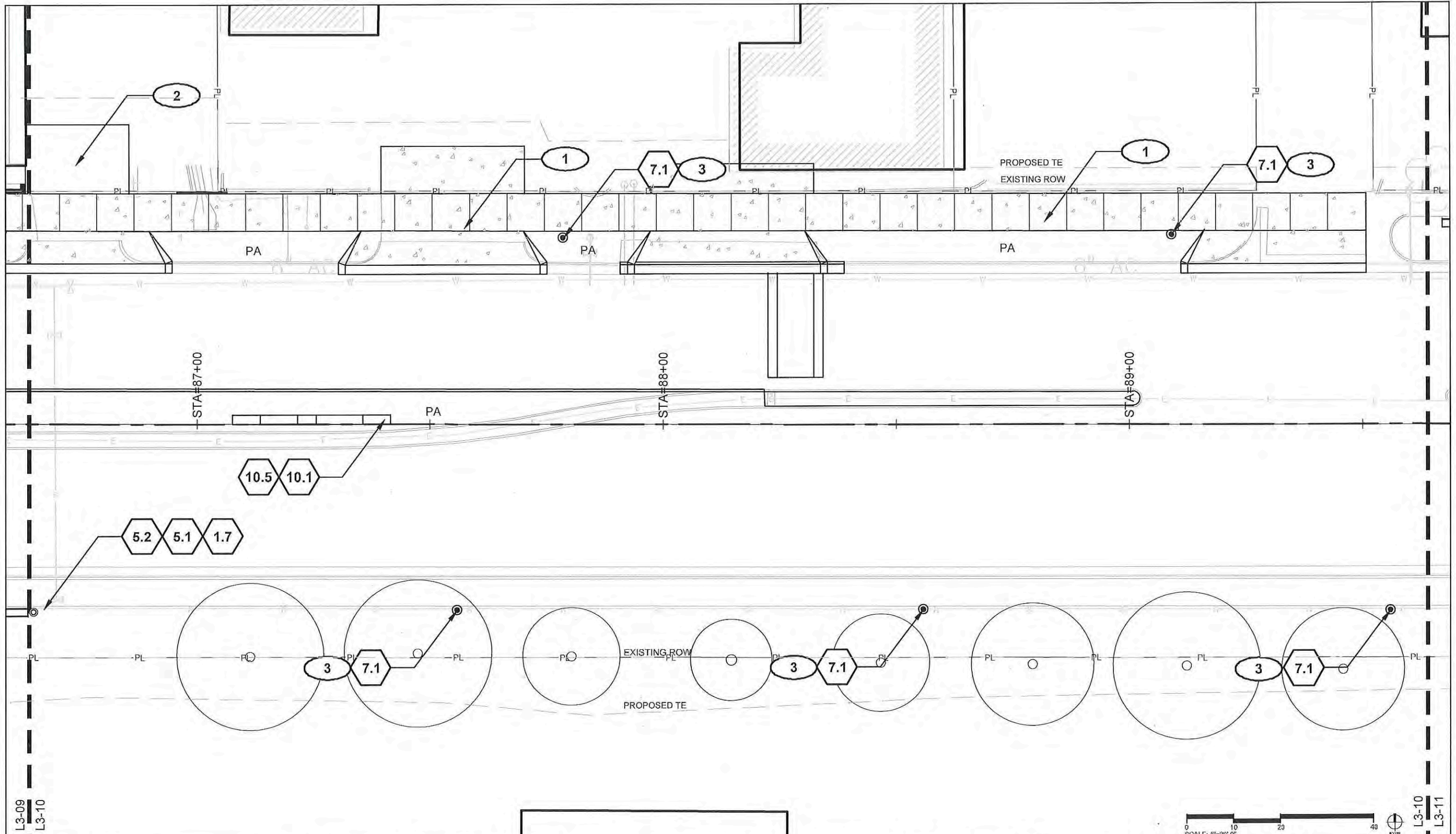
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 Detailer: Ashley Allis
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 Structure Numbers
 Subset Sheets: L3-09

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **177**

L3-08
L3-09

L3-09
L3-10



Print Date: AUGUST 21, 2015
 File Name: L3-10
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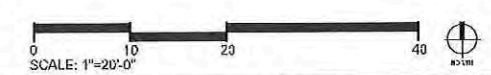
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Region 3 RBB

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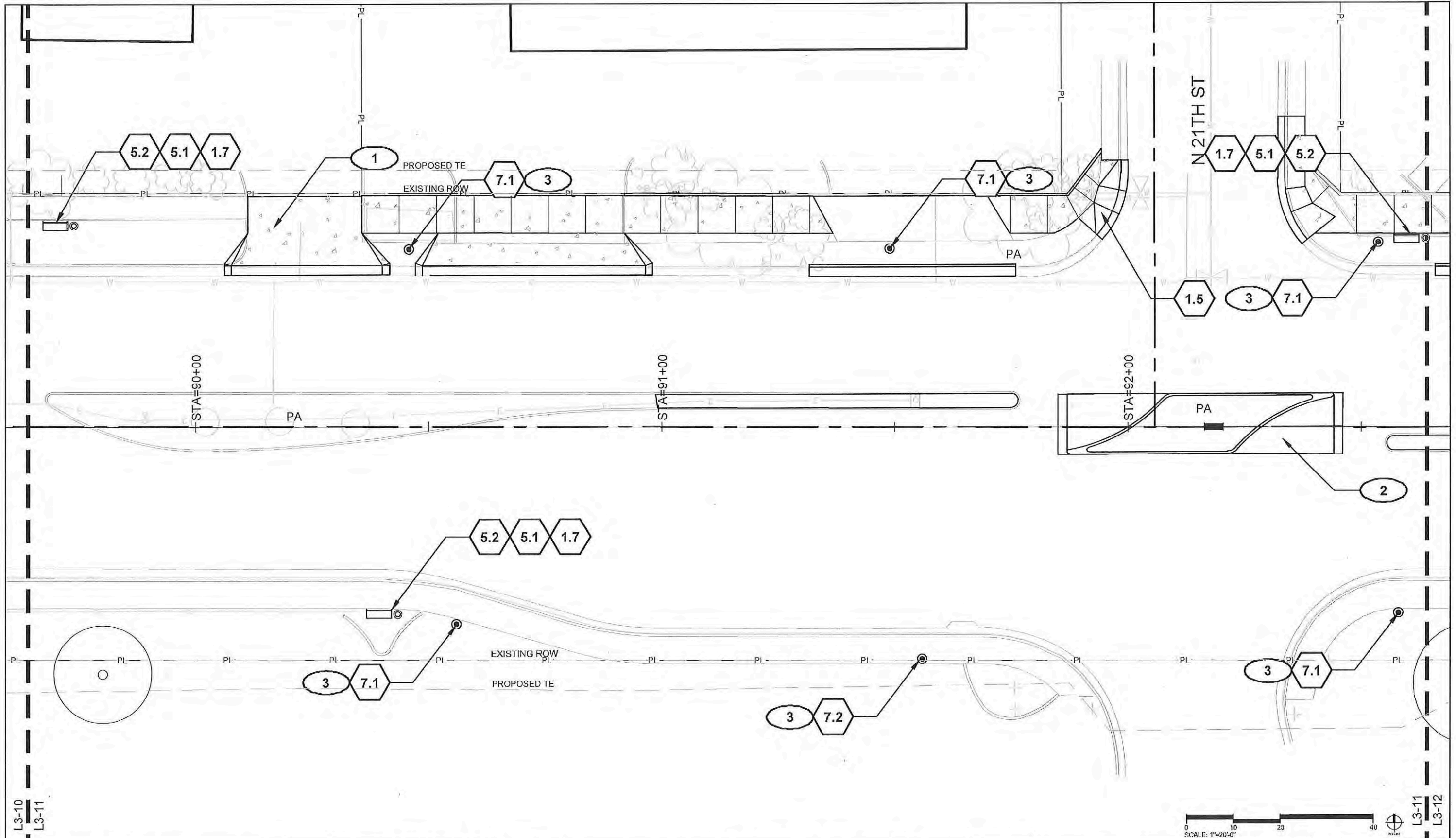
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 Structure Numbers
 Subset Sheets: L3-10

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **178**



L3-09
L3-10

L3-10
L3-11



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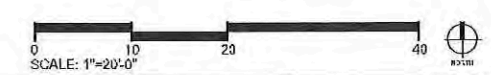
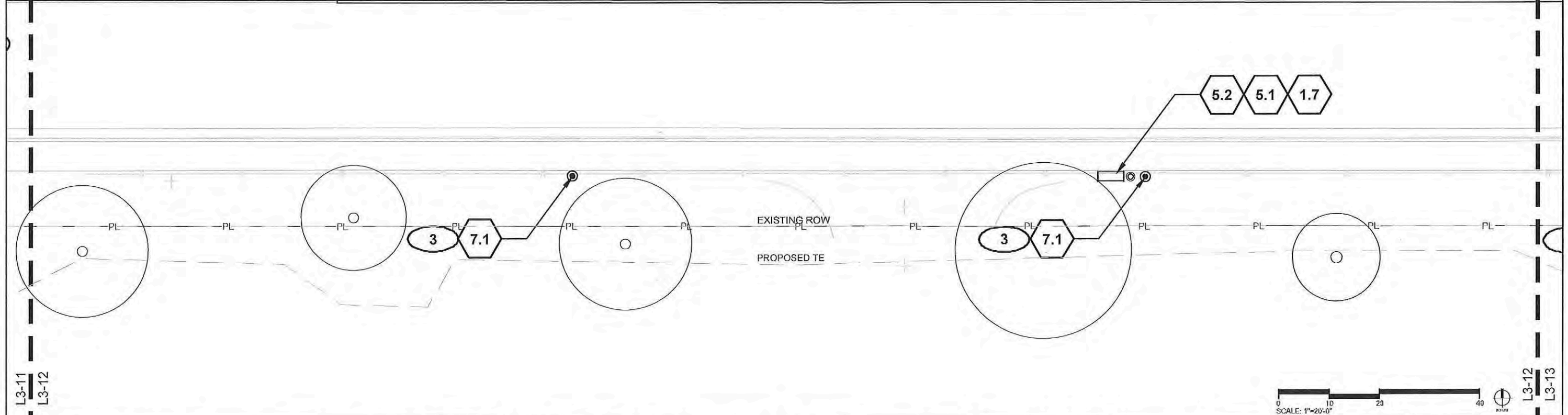
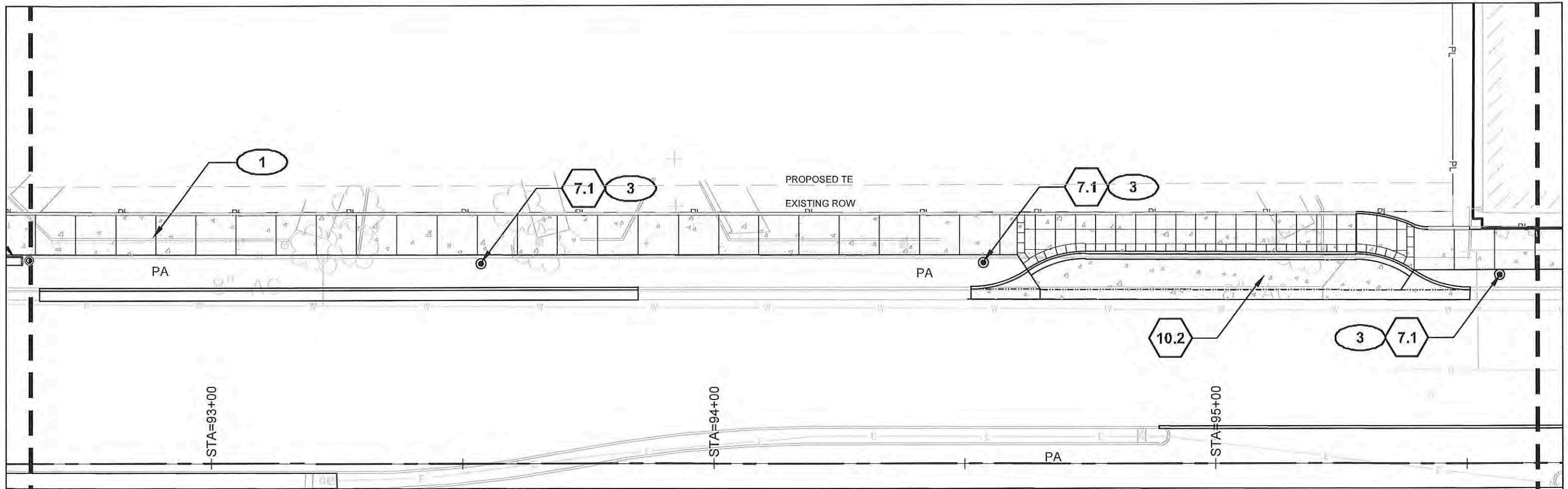
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: MATERIALS
 Structure Numbers
 Subset Sheets: L3-11

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **179**

L3-10
L3-11

L3-11
L3-12

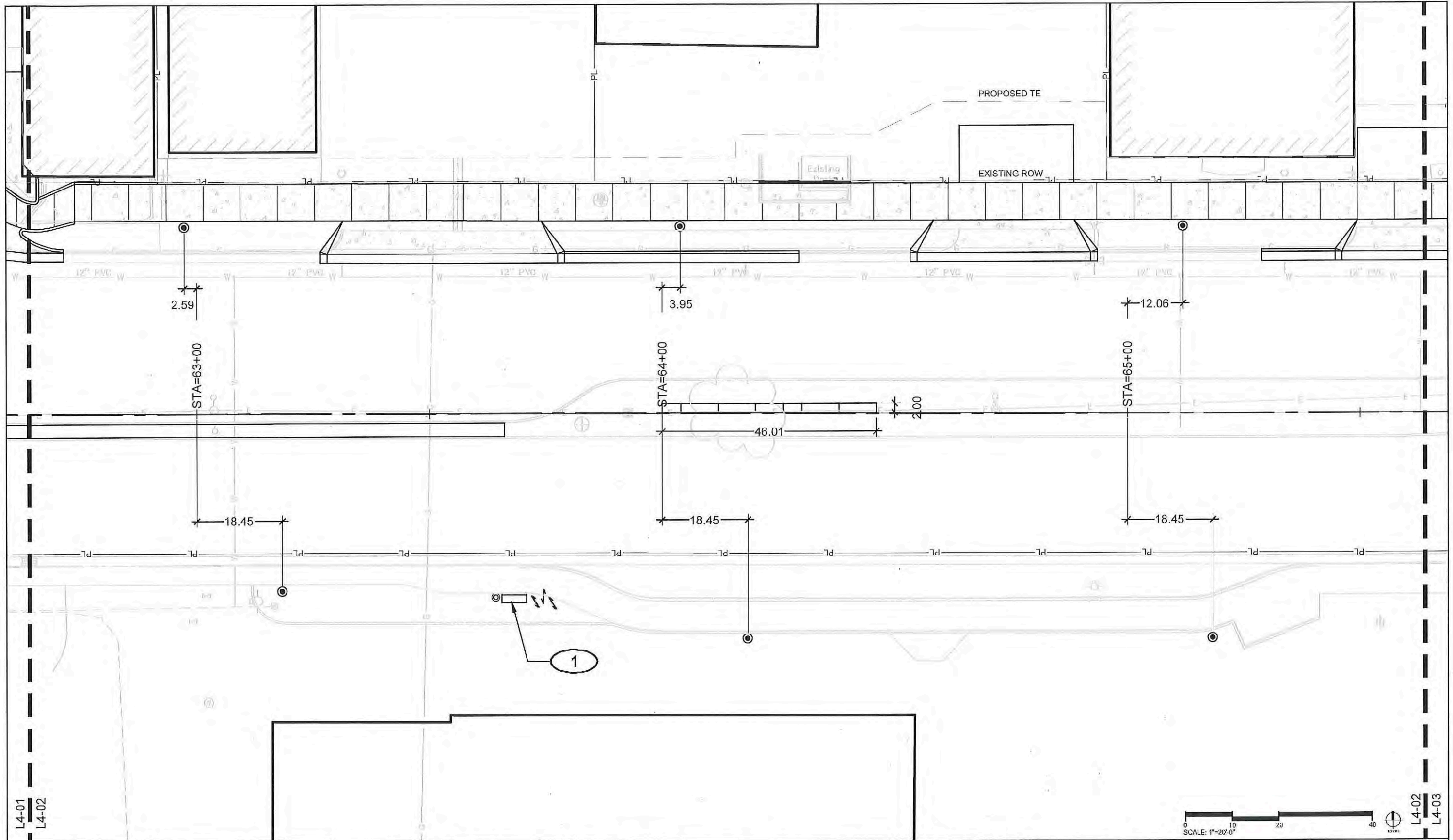


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| | | | | | | | Void: | | Sheet Subset: MATERIALS | | Subset Sheets: L3-12 | |

LAYOUT REFERENCE NOTES

- ① Proposed street furniture. Final placement to be located in field by landscape architect

| | | | | | | | | | | | |
|--|---|------------------------|----------|----------|--|-----------------------|-------------------------|------------------------|---------------|-------------------------|--|
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| | | | | Void: | Sheet Subset: LAYOUT | Subset Sheets: L4-00 | Sheet Number 182 | | | | |



Print Date: AUGUST 21, 2015
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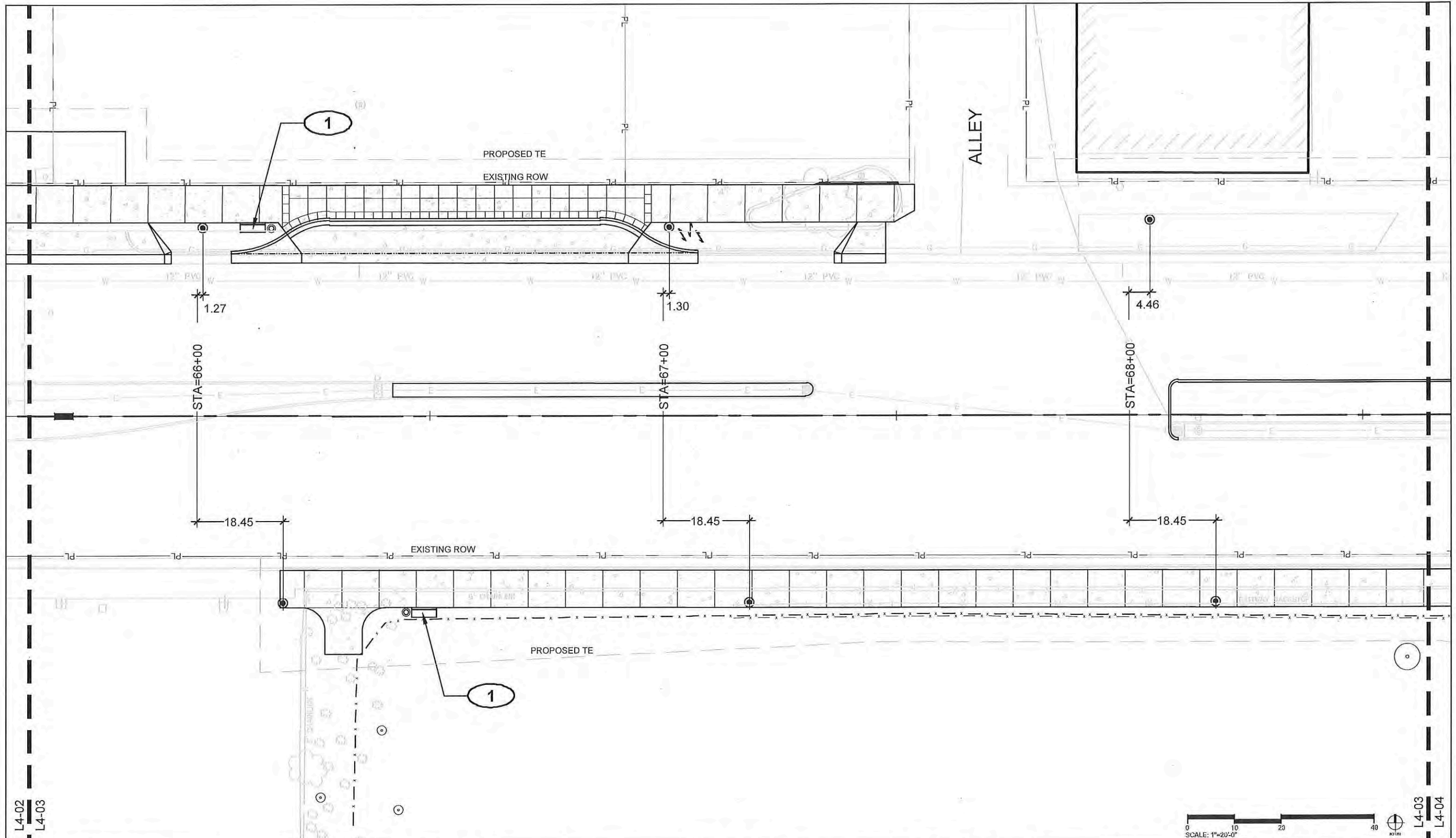
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: LAYOUT
 Structure Numbers
 Subset Sheets: L4-02

Project No./Code
 TCSP M555-029
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 Sheet Number **184**

L4-01
L4-02

L4-02
L4-03



Print Date: AUGUST 21, 2015
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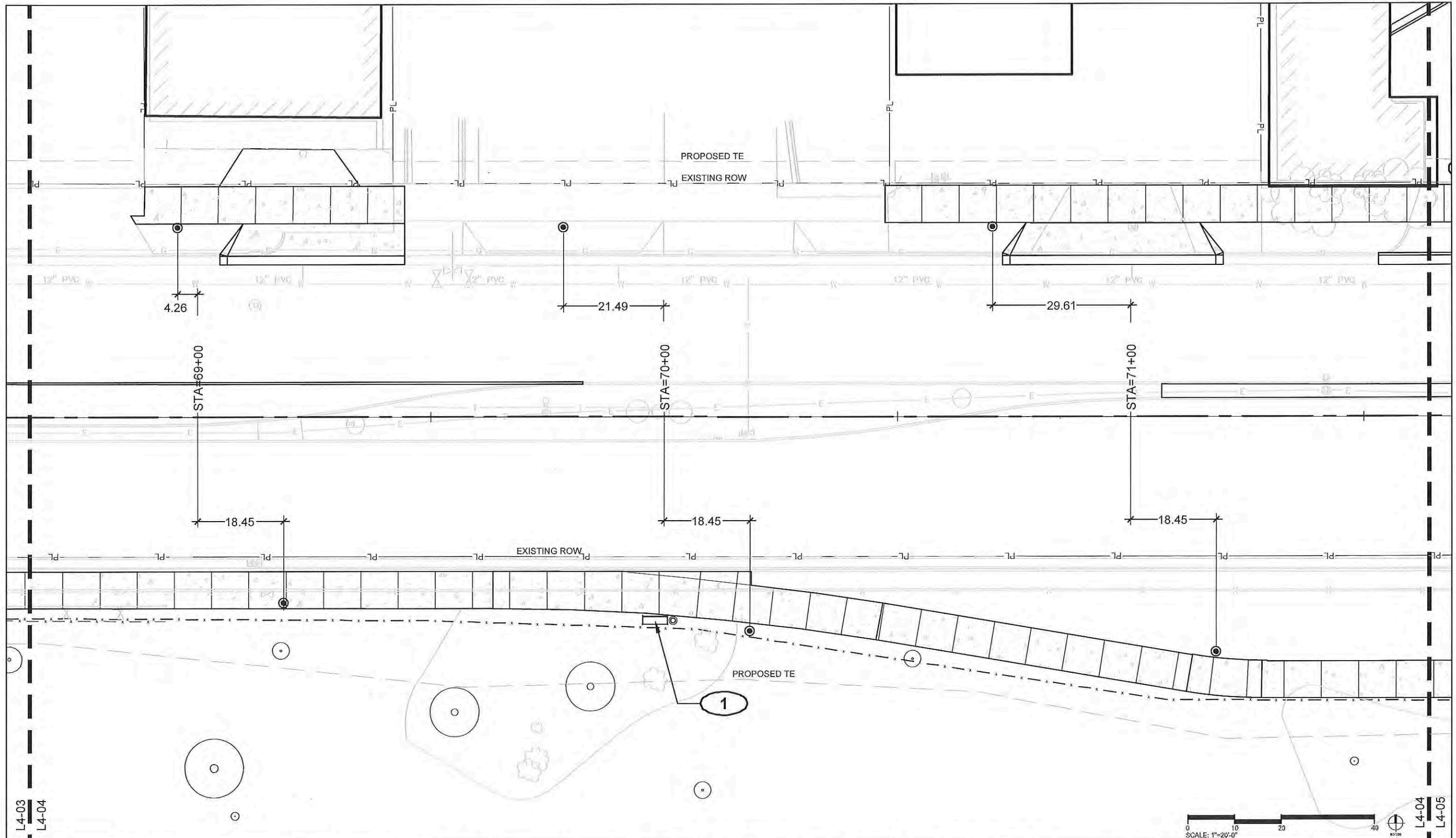
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 Detailer: Ashley Allis
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 Structure Numbers
 Subset Sheets: L4-03

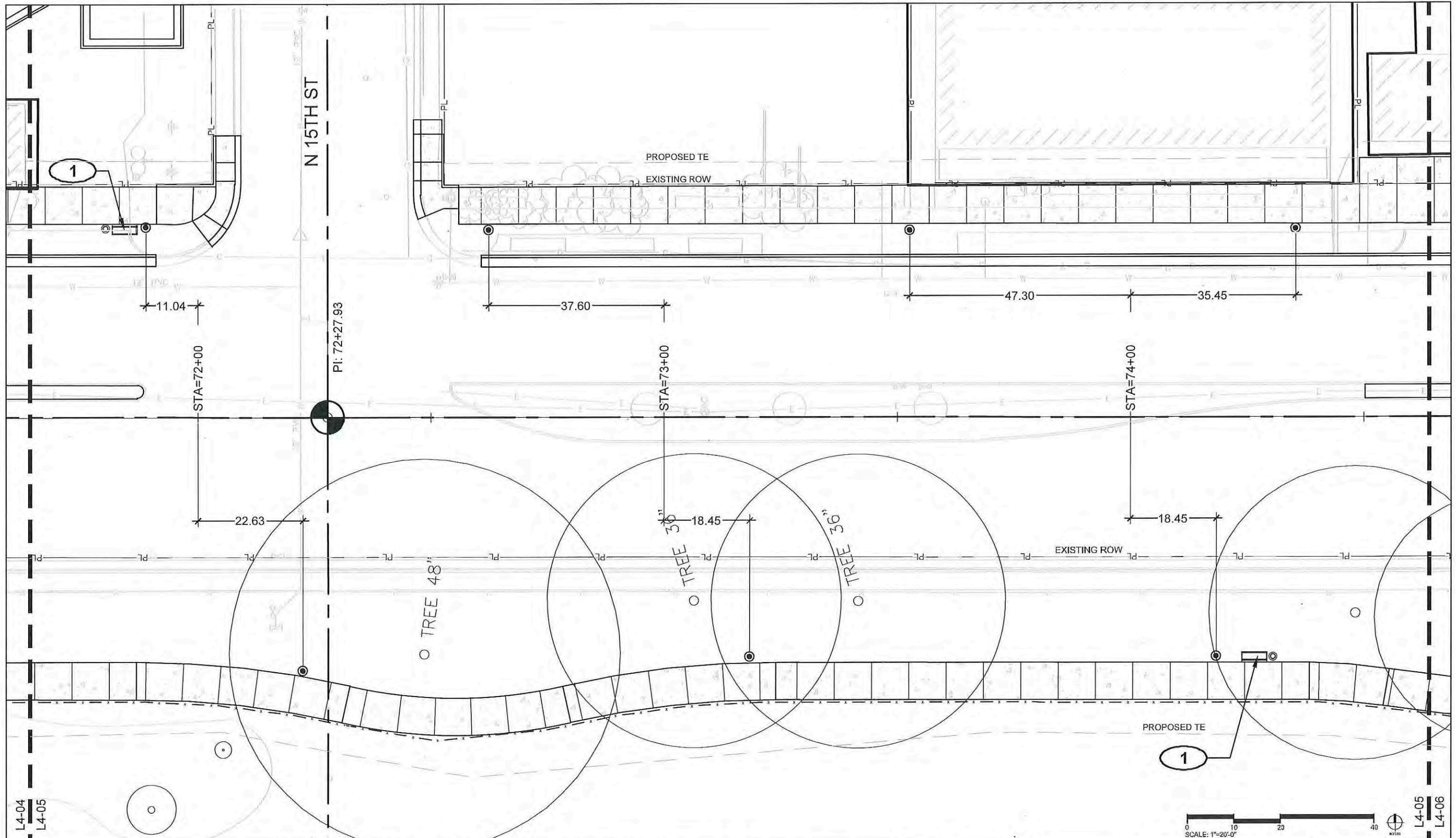
Project No./Code
 TCSP M555-029
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 Sheet Number **185**

L4-02
L4-03

L4-03
L4-04



| Print Date: AUGUST 21, 2015 File Name: L4-04.dwg DESIGN WORKSHOP Landscape Architecture • Land Planning Urban Design • Tourism Planning 120 East Main Street Aspen, Colorado 81611-1787 (970)-925-8354 WWW.DESIGNWORKSHOP.CO | Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | | Date: | Comments | Init. | | | | | | | | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed No Revisions: Revised: Void: | Landscape Plans Designer: Mike Albert Detailer: Ashley Allis Sheet Subset: LAYOUT | | Project No./Code TCSP M555-029 19365 Sheet Number 186 |
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| RBB | Structure Numbers Subsel Sheets: L4-04 | | | | | | | | | | | | | | | | | | | |



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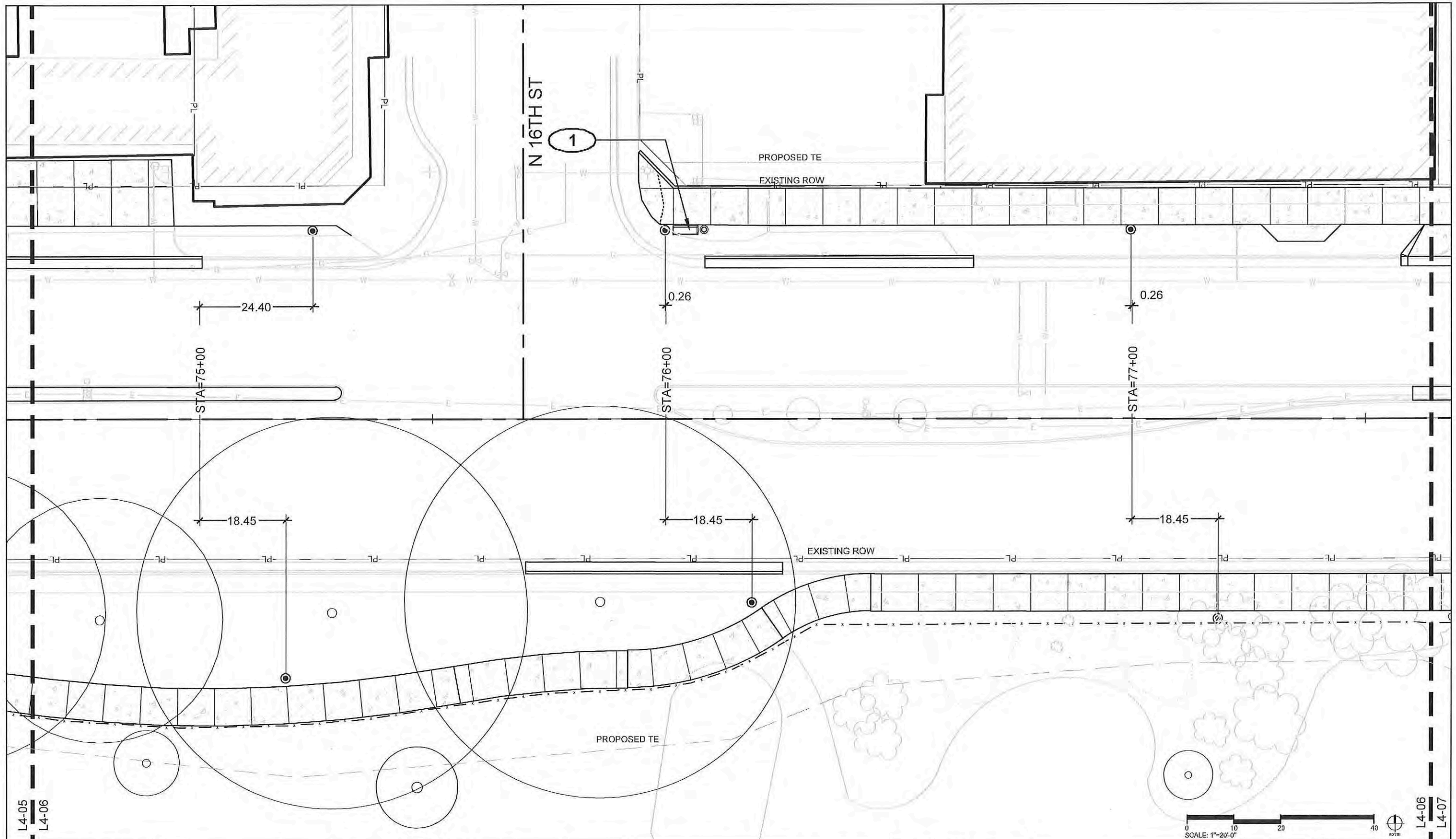
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 No Revisions:
 Revised:
 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: LAYOUT
 Structure Numbers
 Subset Sheets: L4-05

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **187**



Print Date: AUGUST 21, 2015
 File Name: L4-06.dwg
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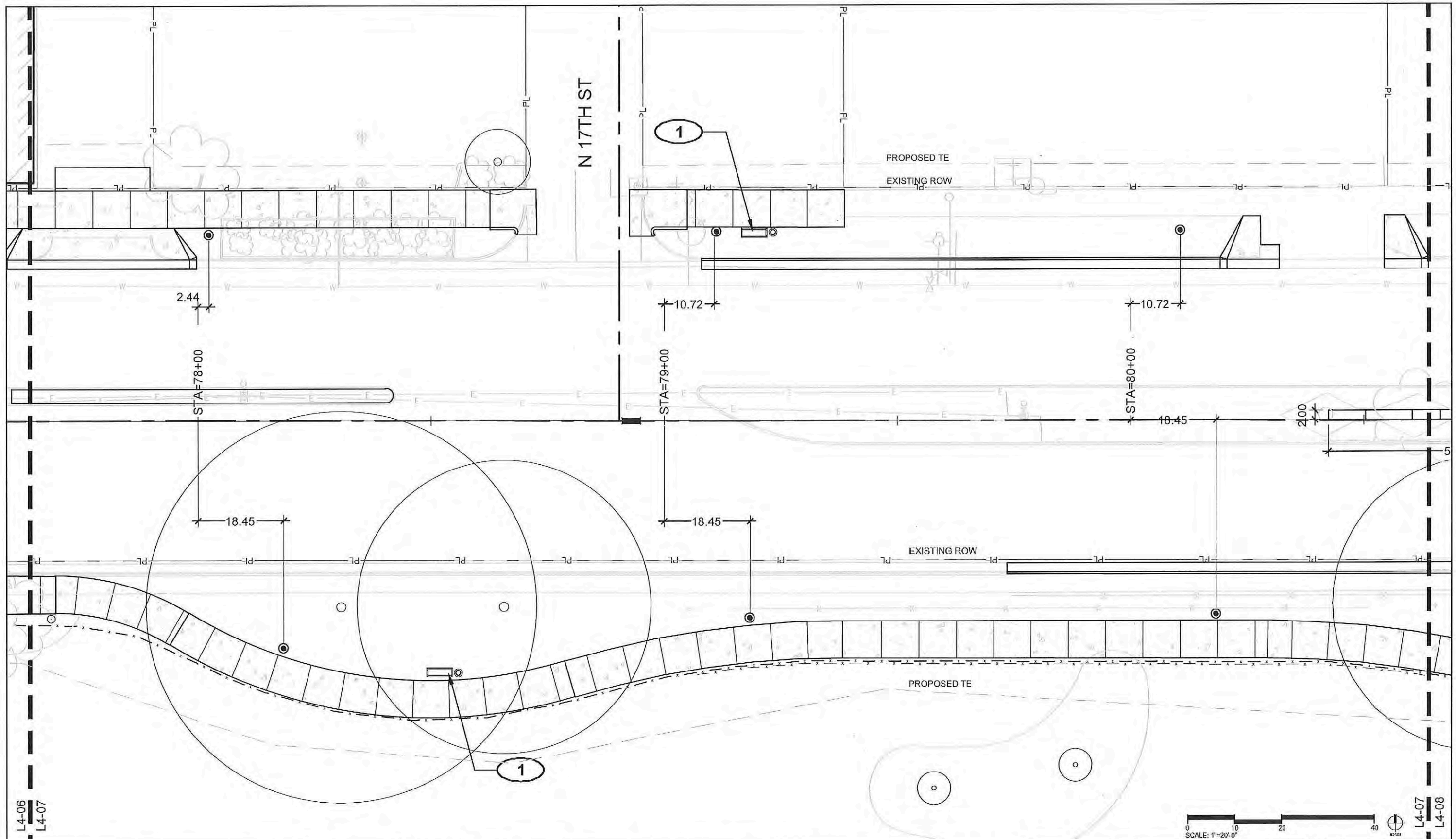
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 Detailer: Ashley Allis
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 Structure Numbers
 Subset Sheets: L4-06

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **188**


L4-05
L4-06

L4-06
L4-07



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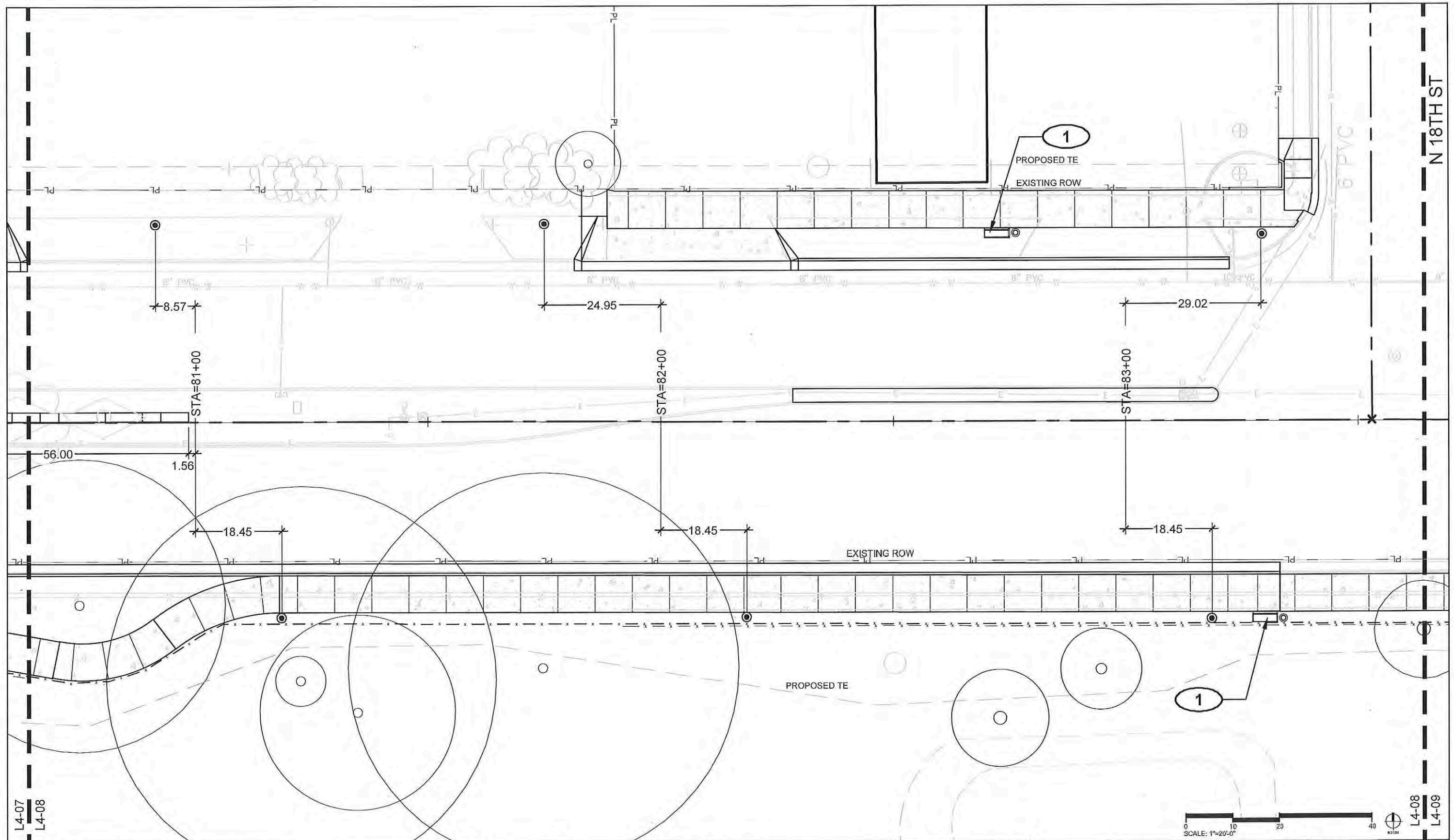
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
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 Structure Numbers
 Subset Sheets: L4-07

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **189**

L4-06
 L4-07

L4-07
 L4-08



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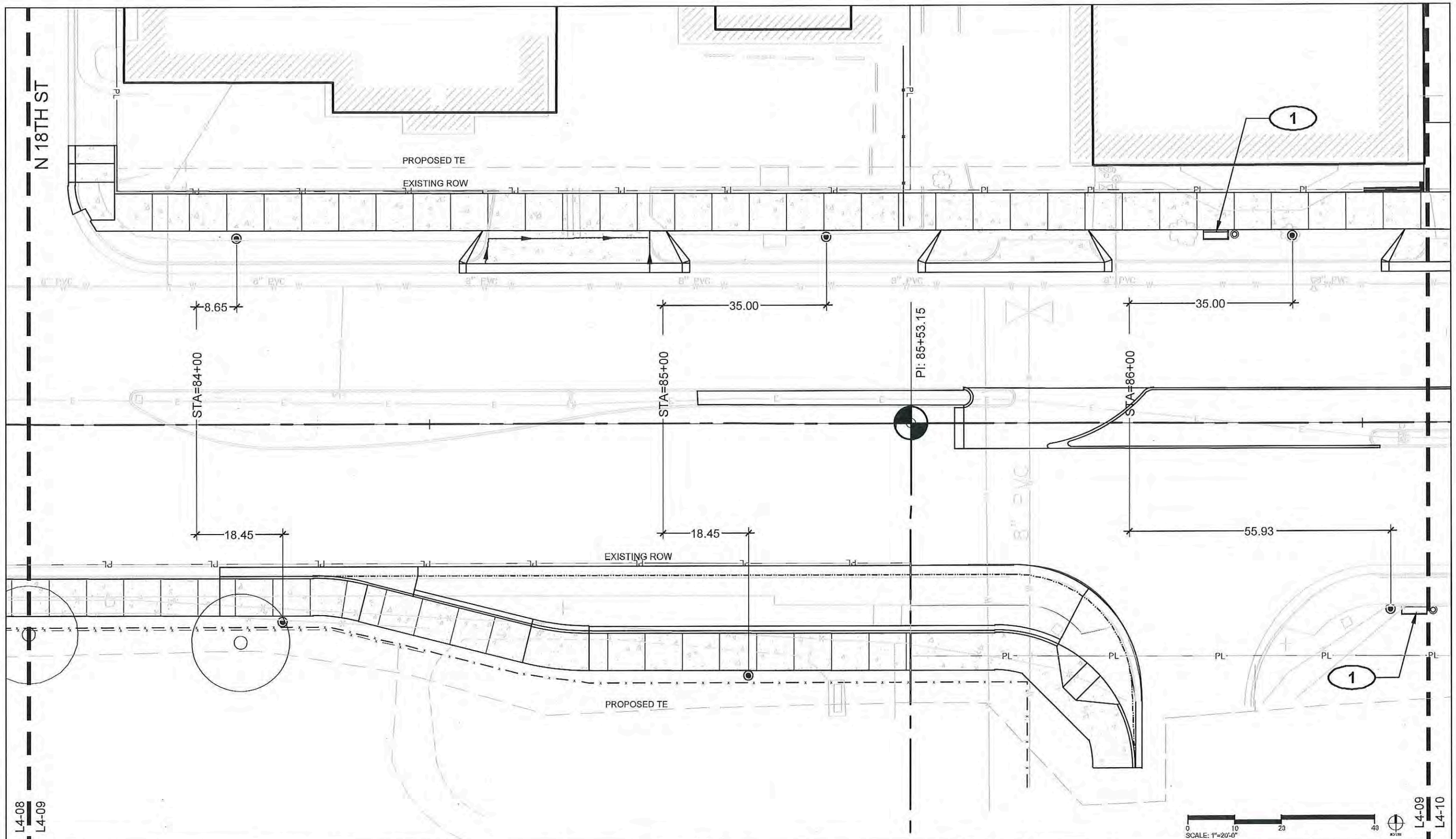
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Project No./Code
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 Sheet Number **190**

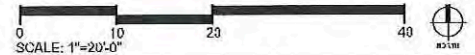
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L4-08

L4-08
L4-09



L4-08
L4-09

L4-09
L4-10



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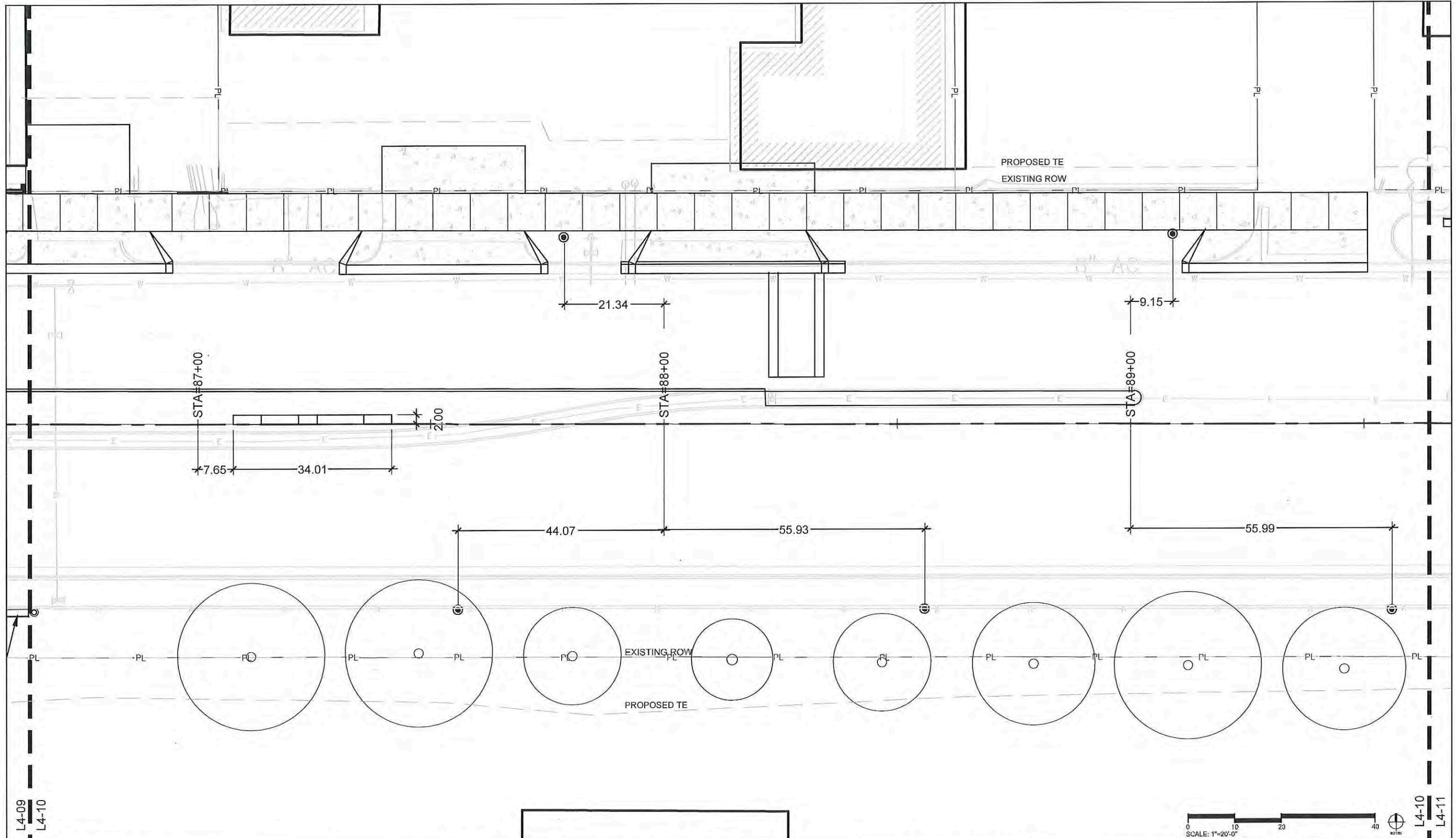
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As Constructed
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 Revised:
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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: LAQUT
 Structure Numbers
 Subset Sheets: L4-09

Project No./Code
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 19365
 Sheet Number **191**



Print Date: AUGUST 21, 2015
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Region 3 **RBB**

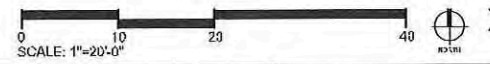
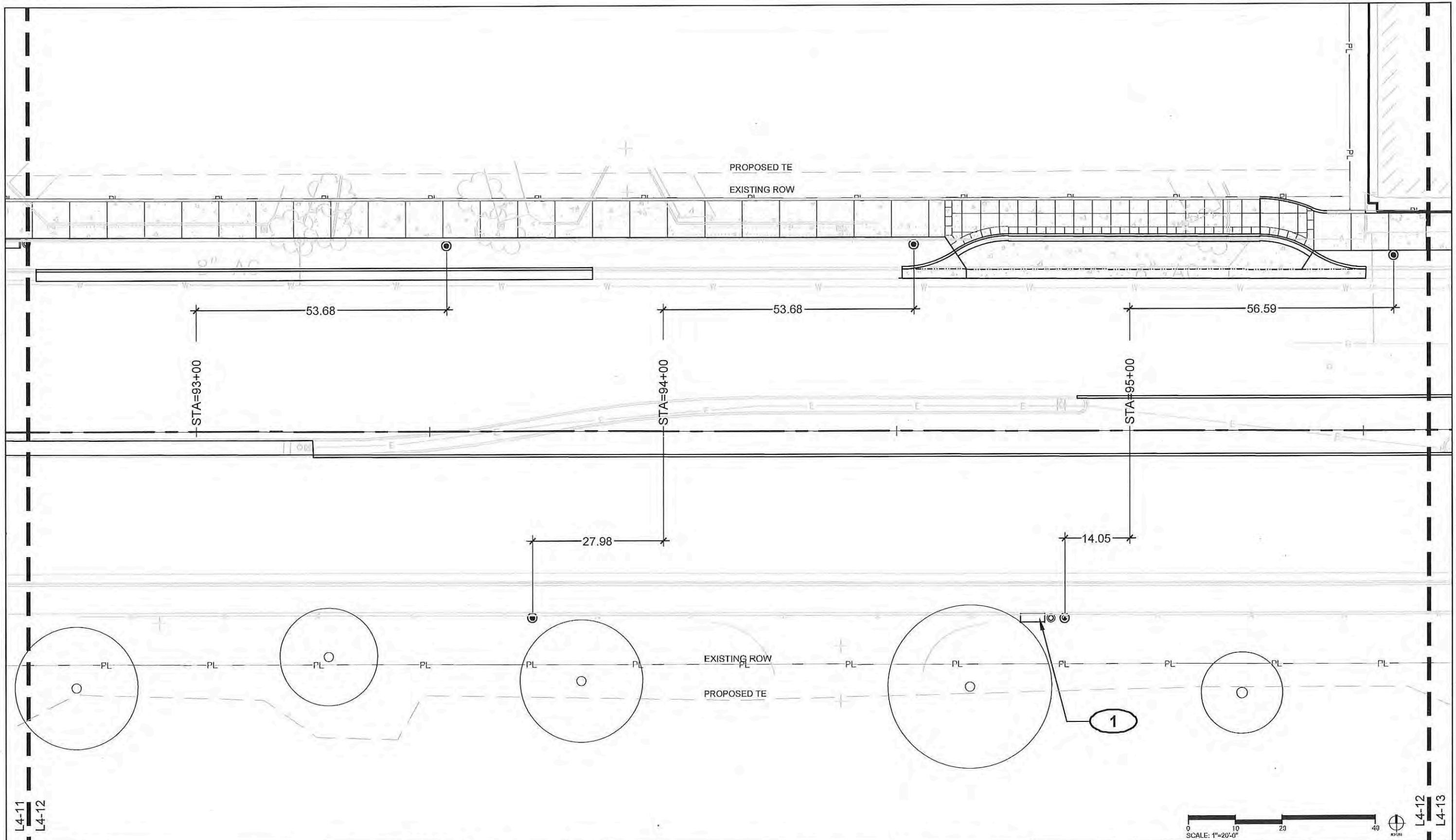
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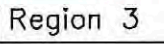
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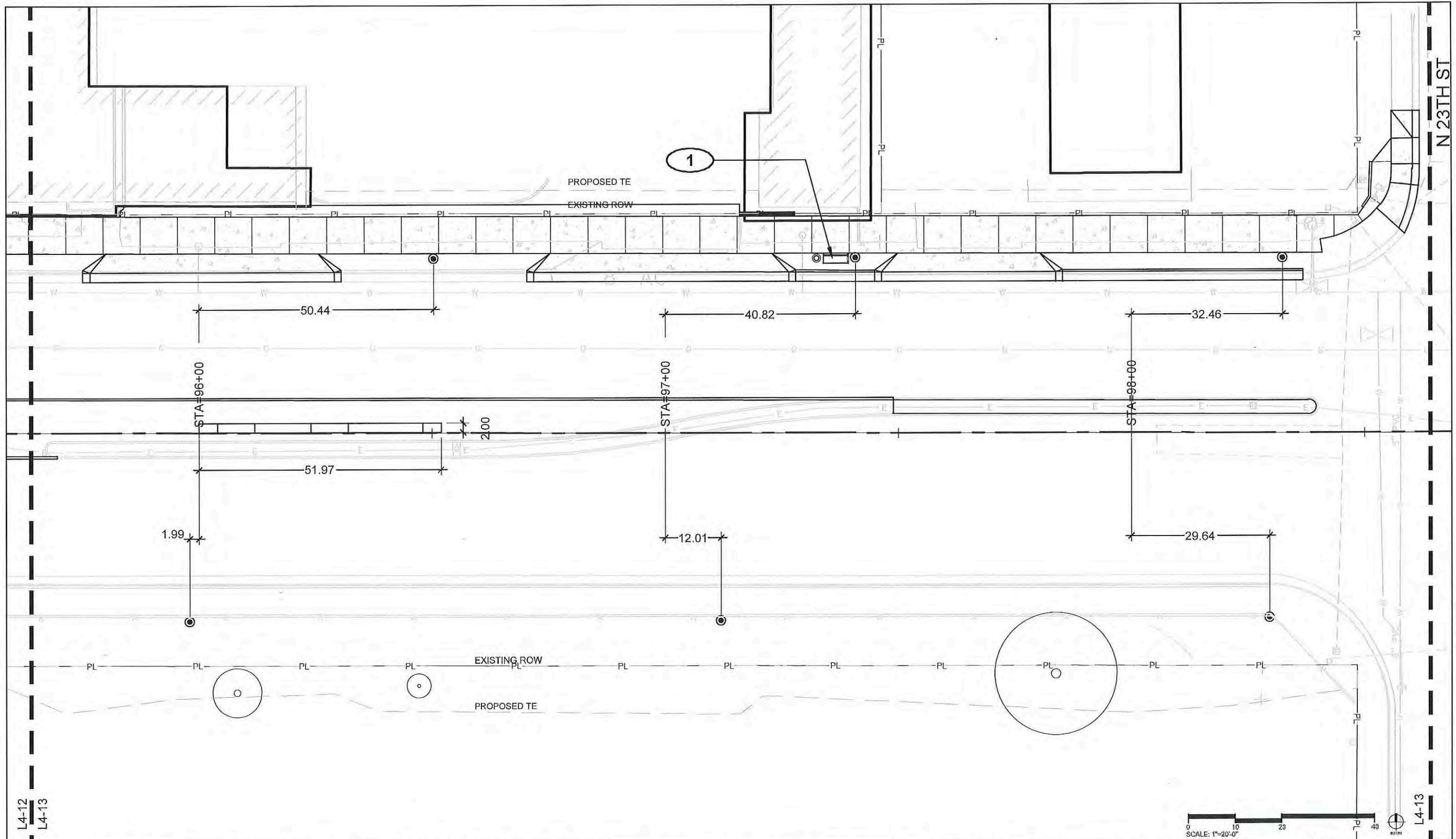
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L4-09
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L4-11



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RBB

As Constructed

No Revisions:

Revised:

Void:

Landscape Plans

Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: LAYOUT

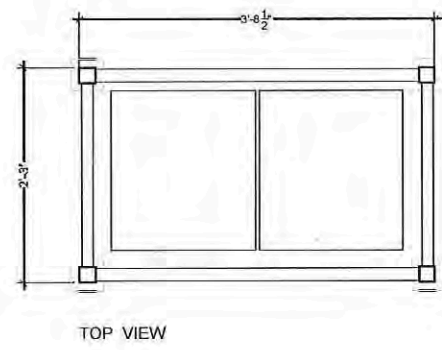
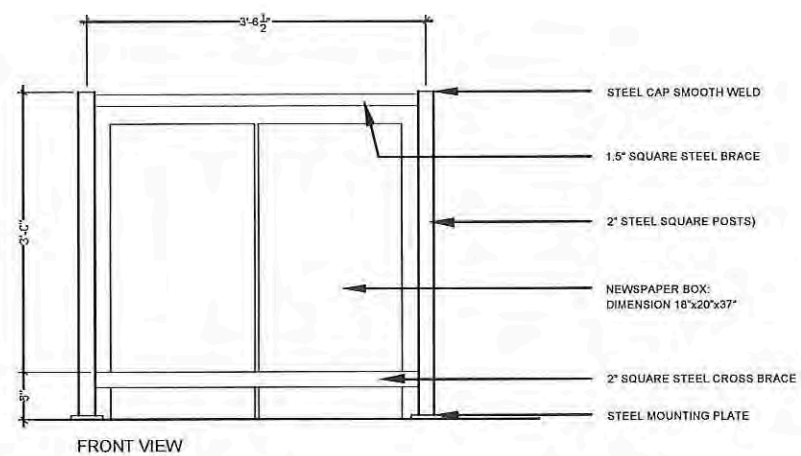
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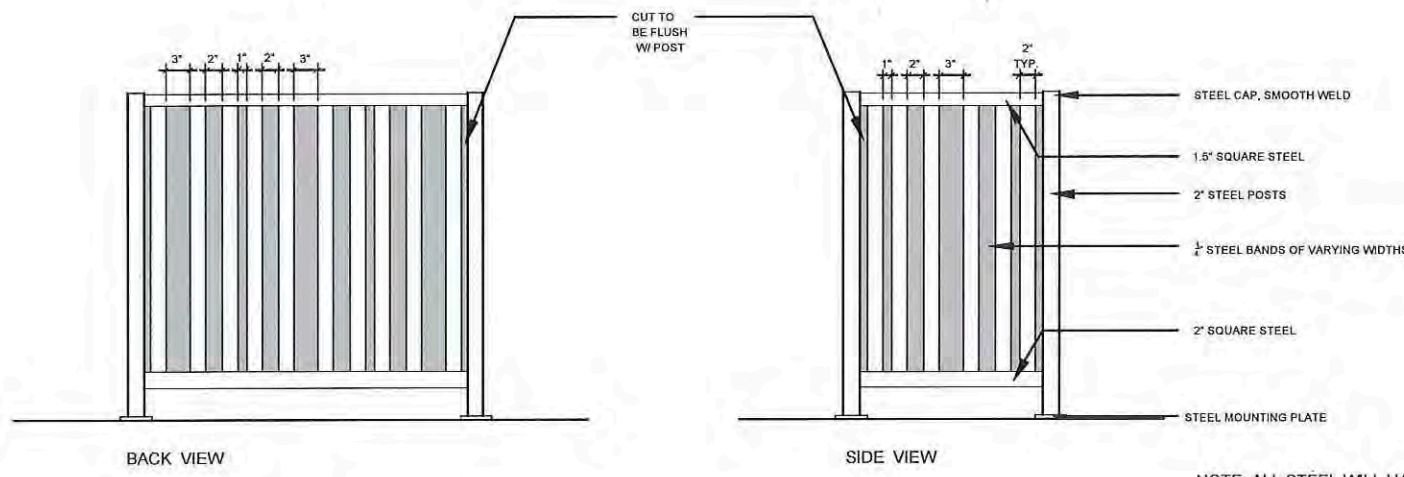
Project No./Code
 TCSP M555-029

19365

Sheet Number **195**



CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION



NOTE: ALL STEEL WILL HAVE SMOOTH EDGES AND POWDER COAT FINISH

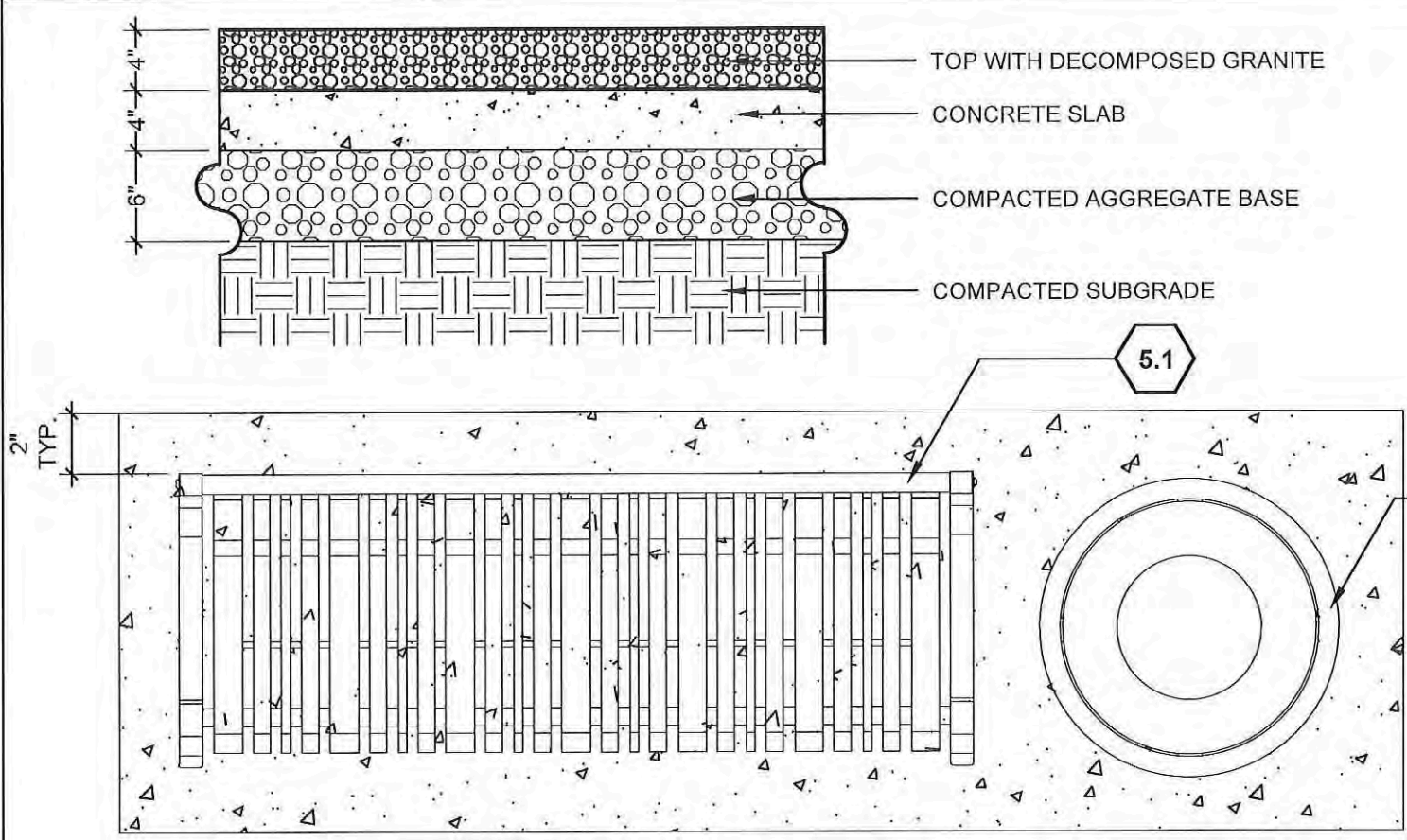
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1/2" = 1'-0"

5.4

SITE KEYNOTES: DETAIL / SHEET

| | | |
|-------------|--|-------------------|
| 1.0 | PAVEMENTS, RAMPS, CURBS | |
| 1.1 | Concrete Paving Type 1 (pedestrian) | See Civil Details |
| 1.2 | Concrete Paving Type 2 (pedestrian-enhanced) | See Civil Details |
| 1.3 | Concrete Paving Type 3 (vehicular access) | See Civil Details |
| 1.4 | Concrete Curb and Gutter | See Civil Details |
| 1.5 | ADA Ramp | See Civil Details |
| 1.6 | Not included at this time | |
| 1.7 | Concrete Slab | 01/L7-03 |
| 2.0 | JOINTING | |
| | Not Used at this Time | |
| 3.0 | STEPS | |
| | Not Used at this Time | |
| 4.0 | SITE WALLS/ EMBANKMENTS | |
| | Not Used at this Time | |
| 5.0 | SITE FURNITURE | |
| 5.1 | Bench | 01/L7-01 |
| 5.2 | Trash Receptacle | 02/L7-01 |
| 5.3 | Bike Rack | 03/L7-01 |
| 5.4 | Newspaper Box | 01/L7-02 |
| 6.0 | RAILINGS, BARRIERS, FENCING | |
| 6.1 | Chain Link Fence | 04/L7-01 |
| 6.2 | Safety Screen (locations only) | By others |
| 7.0 | SITE LIGHTING | |
| 7.1 | Pedestrian Lighting | By others |
| 7.2 | Pedestrian Lighting in Paving | By others |
| 8.0 | DRAINAGE | |
| | Not Used at this Time | |
| 9.0 | PLANTING AND LANDSCAPE | |
| | Refer to Planting Plans | |
| 10.0 | MISCELLANEOUS ELEMENTS | |
| 10.1 | Art Piece - Typical | 1/L7-04 |
| 10.2 | Bus Pullout - Typical | 2/L7-03 |
| 10.3 | Art Piece - 1 | 1/L7-05 |
| 10.4 | Art Piece - 2 | 2/L7-05 |
| 10.5 | Art Piece - 3 | 1/L7-06 |
| 10.6 | Art Piece - 4 | 2/L7-06 |

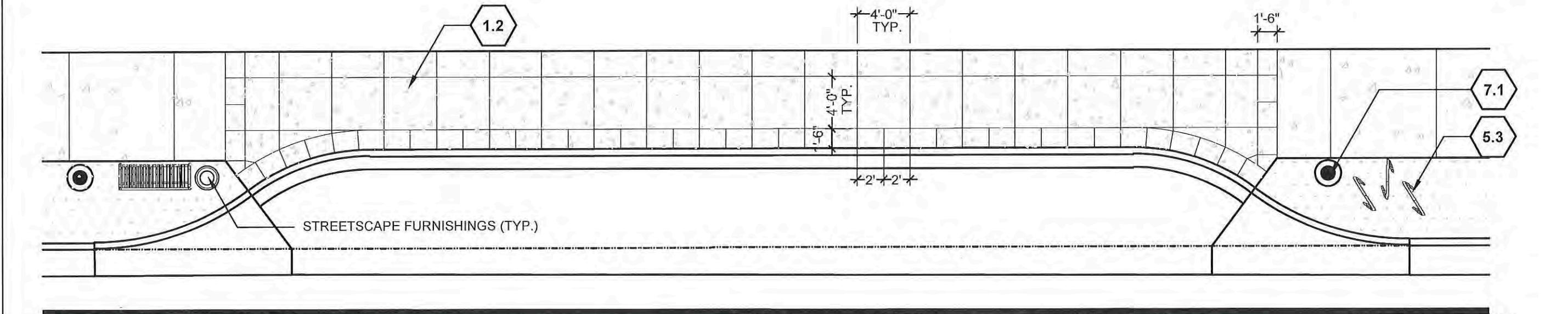
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| Print Date: AUGUST 21, 2015 | | Sheet Revisions | Colorado Department of Transportation | As Constructed | Landscape Plans | Project No./Code |
| File Name: <small>1918_0115_0561.dwg</small> | | Date: Comments Init. | Region 3 | No Revisions: | Designer: Mike Albert | TCSP M555-029 |
| DESIGN WORKSHOP Landscape Architecture • Land Planning Urban Design • Tourism Planning <small>WWW.DESIGNWORKSHOP.COM</small> | | | Region 3 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | Revised: | Detailer: Ashley Allis | 19365 |
| | | | RBB | Void: | Structure Numbers | Sheet Number 197 |
| | | | | | Sheet Subset: SITE DETAILS | Subset Sheets: L7-02 |



1 CONCRETE SLAB
1" = 1'-0"

SITE KEYNOTES:

| KEYNOTE | DESCRIPTION | DETAIL / SHEET |
|--|--|-------------------|
| 1.0 PAVEMENTS, RAMPS, CURBS | | |
| 1.1 | Concrete Paving Type 1 (pedestrian) | See Civil Details |
| 1.2 | Concrete Paving Type 2 (pedestrian-enhanced) | See Civil Details |
| 1.3 | Concrete Paving Type 3 (vehicular access) | See Civil Details |
| 1.4 | Concrete Curb and Gutter | See Civil Details |
| 1.5 | ADA Ramp | See Civil Details |
| 1.6 | Not included at this time | |
| 1.7 | Concrete Slab | 01/L7-03 |
| 2.0 JOINTING | | |
| Not Used at this Time | | |
| 3.0 STEPS | | |
| Not Used at this Time | | |
| 4.0 SITE WALLS/ EMBANKMENTS | | |
| Not Used at this Time | | |
| 5.0 SITE FURNITURE | | |
| 5.1 | Bench | 01/L7-01 |
| 5.2 | Trash Receptacle | 02/L7-01 |
| 5.3 | Bike Rack | 03/L7-01 |
| 5.4 | Newspaper Box | 01/L7-02 |
| 6.0 RAILINGS, BARRIERS, FENCING | | |
| 6.1 | Chain Link Fence | 04/L7-01 |
| 6.2 | Safety Screen (locations only) | By others |
| 7.0 SITE LIGHTING | | |
| 7.1 | Pedestrian Lighting | By others |
| 7.2 | Pedestrian Lighting in Paving | By others |
| 8.0 DRAINAGE | | |
| Not Used at this Time | | |
| 9.0 PLANTING AND LANDSCAPE | | |
| Refer to Planting Plans | | |
| 10.0 MISCELLANEOUS ELEMENTS | | |
| 10.1 | Art Piece - Typical | 1/L7-04 |
| 10.2 | Bus Pullout - Typical | 2/L7-03 |
| 10.3 | Art Piece - 1 | 1/L7-05 |
| 10.4 | Art Piece - 2 | 2/L7-05 |
| 10.5 | Art Piece - 3 | 1/L7-06 |
| 10.6 | Art Piece - 4 | 2/L7-06 |



2 BUS PULLOUT - TYPICAL
1/8" = 1'-0"

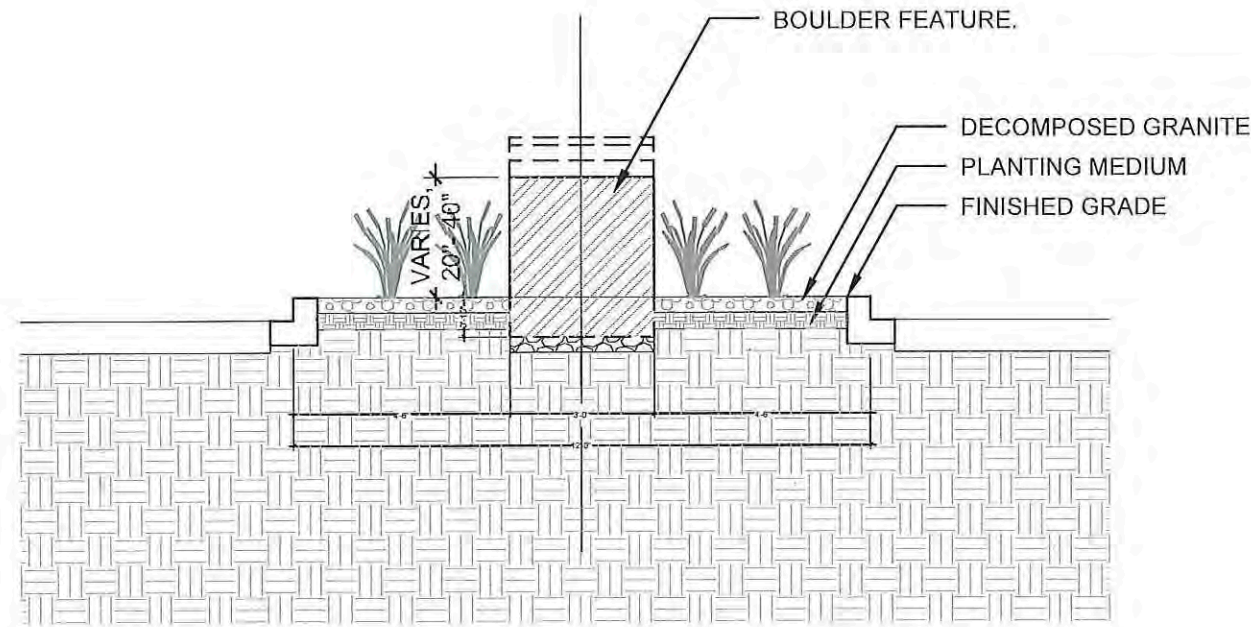
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| File Name: \\s:\proj\15-001\15-001.dwg | Date: | Comments: | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: Mike Albert | | TCSP M555-029 | |
| DESIGN WORKSHOP Landscape Architecture • Land Planning Urban Design • Tourism Planning 120 East Main Street Aspen, Colorado 81611-1787 (970)-925-8354 WWW.DESIGNWORKSHOP.COM | Region 3 | | | RBB | | Revised: | | Detailer: Ashley Allis | | 19365 | |
| | | | | | | Void: | | Sheet Subset: SITE DETAILS | | Subset Sheets: L7-03 | |
| | | | | | | | | | | Sheet Number 198 | |

SITE KEYNOTES:

DETAIL / SHEET

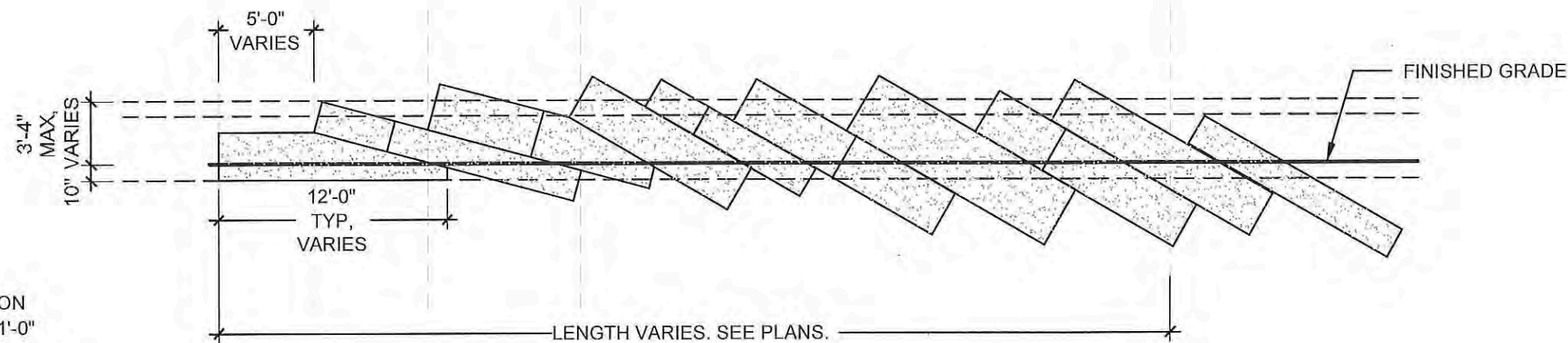
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|-------------|--|-------------------|
| 1.0 | PAVEMENTS, RAMPS, CURBS | |
| 1.1 | Concrete Paving Type 1 (pedestrian) | See Civil Details |
| 1.2 | Concrete Paving Type 2 (pedestrian-enhanced) | See Civil Details |
| 1.3 | Concrete Paving Type 3 (vehicular access) | See Civil Details |
| 1.4 | Concrete Curb and Gutter | See Civil Details |
| 1.5 | ADA Ramp | See Civil Details |
| 1.6 | Not included at this time | |
| 1.7 | Concrete Slab | 01/L7-03 |
| 2.0 | JOINTING | |
| | Not Used at this Time | |
| 3.0 | STEPS | |
| | Not Used at this Time | |
| 4.0 | SITE WALLS/ EMBANKMENTS | |
| | Not Used at this Time | |
| 5.0 | SITE FURNITURE | |
| 5.1 | Bench | 01/L7-01 |
| 5.2 | Trash Receptacle | 02/L7-01 |
| 5.3 | Bike Rack | 03/L7-01 |
| 5.4 | Newspaper Box | 01/L7-02 |
| 6.0 | RAILINGS, BARRIERS, FENCING | |
| 6.1 | Chain Link Fence | 04/L7-01 |
| 6.2 | Safety Screen (locations only) | By others |
| 7.0 | SITE LIGHTING | |
| 7.1 | Pedestrian Lighting | By others |
| 7.2 | Pedestrian Lighting in Paving | By others |
| 8.0 | DRAINAGE | |
| | Not Used at this Time | |
| 9.0 | PLANTING AND LANDSCAPE | |
| | Refer to Planting Plans | |
| 10.0 | MISCELLANEOUS ELEMENTS | |
| 10.1 | Art Piece - Typical | 1/L7-04 |
| 10.2 | Bus Pullout - Typical | 2/L7-03 |
| 10.3 | Art Piece - 1 | 1/L7-05 |
| 10.4 | Art Piece - 2 | 2/L7-05 |
| 10.5 | Art Piece - 3 | 1/L7-06 |
| 10.6 | Art Piece - 4 | 2/L7-06 |

FRONT SECTION
SCALE: 1/4" = 1'-0"



NOTE: LANDSCAPE ARCHITECT TO WORK WITH CONTRACTOR TO SELECT MEDIAN BOULDERS.

SIDE ELEVATION
SCALE: 1/8" = 1'-0"

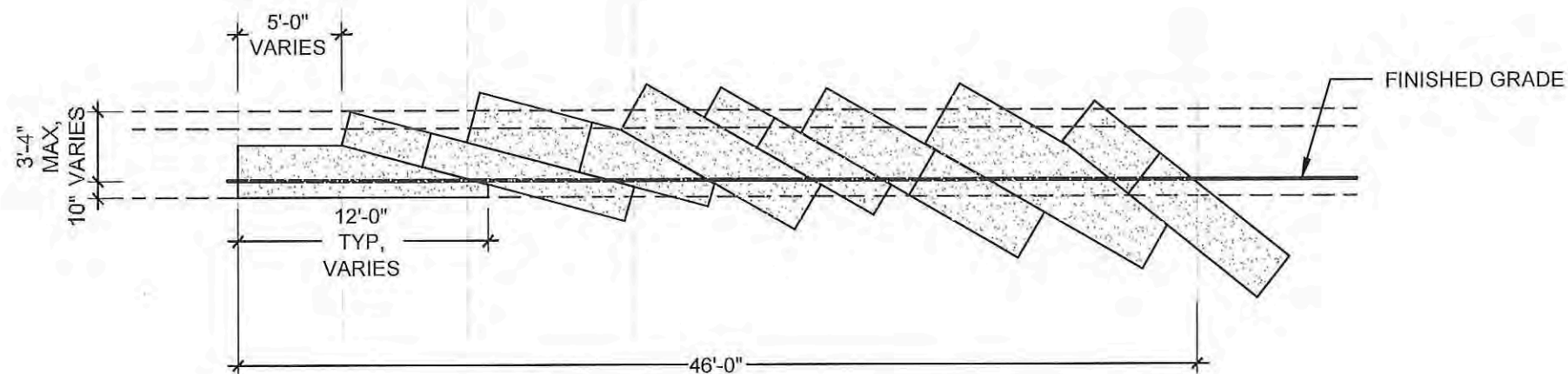


NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS.

1 ART PIECE - TYPICAL

10.1

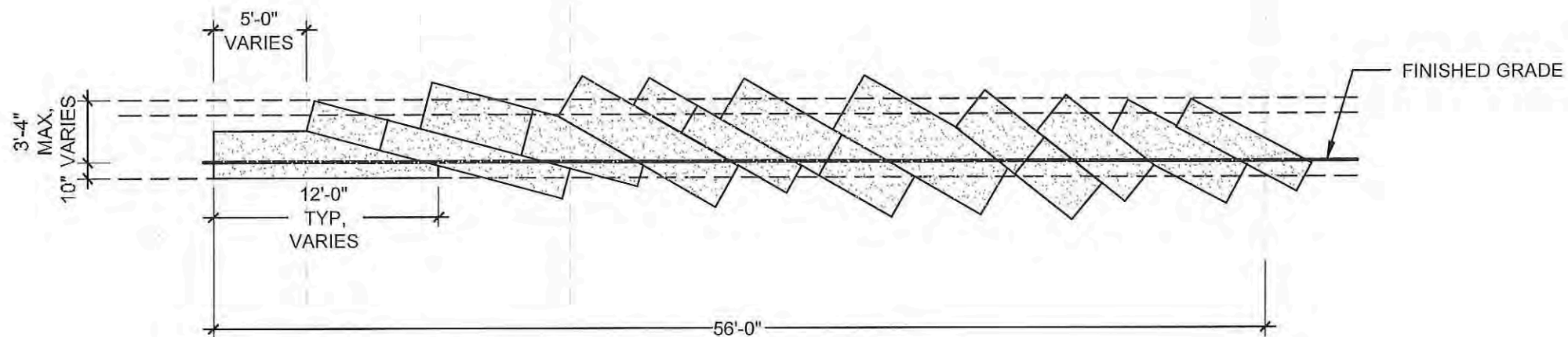
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| File Name: A:\14_0815_15_0815.dwg | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: Mike Albert | | TCSP M555-029 | | |
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| | | | | | | Void: | Sheet Subset: SITE DETAILS | | Subset Sheets: L7-04 | | Sheet Number 199 | |



NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS.

1 ART PIECE - 1

1/8" = 1'-0"



NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS.

2 ART PIECE - 2

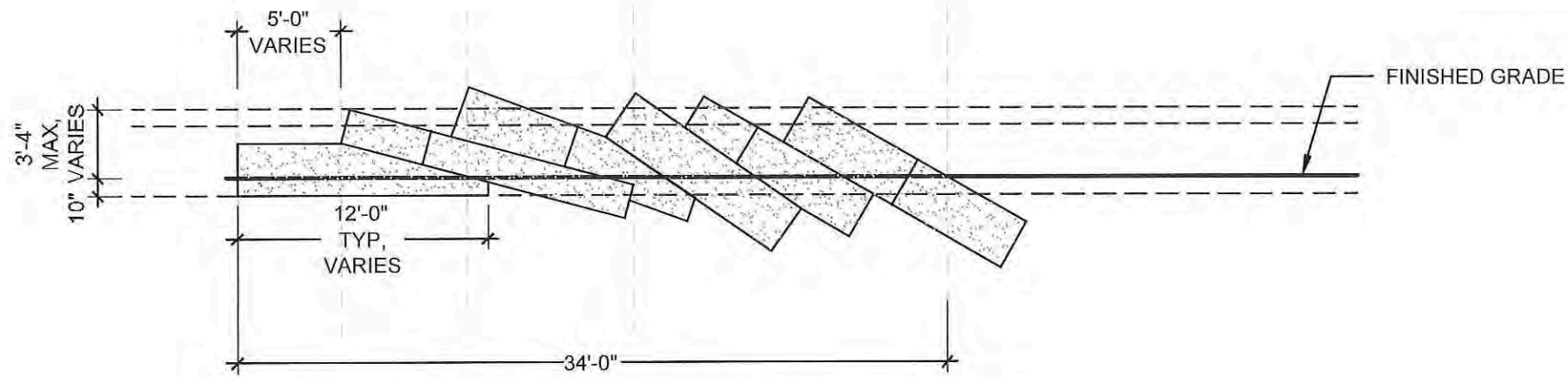
1/8" = 1'-0"

SITE KEYNOTES:

DETAIL / SHEET

| | | |
|-------------|--|-------------------|
| 1.0 | PAVEMENTS, RAMPS, CURBS | |
| 1.1 | Concrete Paving Type 1 (pedestrian) | See Civil Details |
| 1.2 | Concrete Paving Type 2 (pedestrian-enhanced) | See Civil Details |
| 1.3 | Concrete Paving Type 3 (vehicular access) | See Civil Details |
| 1.4 | Concrete Curb and Gutter | See Civil Details |
| 1.5 | ADA Ramp | See Civil Details |
| 1.6 | Not included at this time | |
| 1.7 | Concrete Slab | 01/L7-03 |
| 2.0 | JOINTING | |
| | Not Used at this Time | |
| 3.0 | STEPS | |
| | Not Used at this Time | |
| 4.0 | SITE WALLS/ EMBANKMENTS | |
| | Not Used at this Time | |
| 5.0 | SITE FURNITURE | |
| 5.1 | Bench | 01/L7-01 |
| 5.2 | Trash Receptacle | 02/L7-01 |
| 5.3 | Bike Rack | 03/L7-01 |
| 5.4 | Newspaper Box | 01/L7-02 |
| 6.0 | RAILINGS, BARRIERS, FENCING | |
| 6.1 | Chain Link Fence | 04/L7-01 |
| 6.2 | Safety Screen (locations only) | By others |
| 7.0 | SITE LIGHTING | |
| 7.1 | Pedestrian Lighting | By others |
| 7.2 | Pedestrian Lighting in Paving | By others |
| 8.0 | DRAINAGE | |
| | Not Used at this Time | |
| 9.0 | PLANTING AND LANDSCAPE | |
| | Refer to Planting Plans | |
| 10.0 | MISCELLANEOUS ELEMENTS | |
| 10.1 | Art Piece - Typical | 1/L7-04 |
| 10.2 | Bus Pullout - Typical | 2/L7-03 |
| 10.3 | Art Piece - 1 | 1/L7-05 |
| 10.4 | Art Piece - 2 | 2/L7-05 |
| 10.5 | Art Piece - 3 | 1/L7-06 |
| 10.6 | Art Piece - 4 | 2/L7-06 |

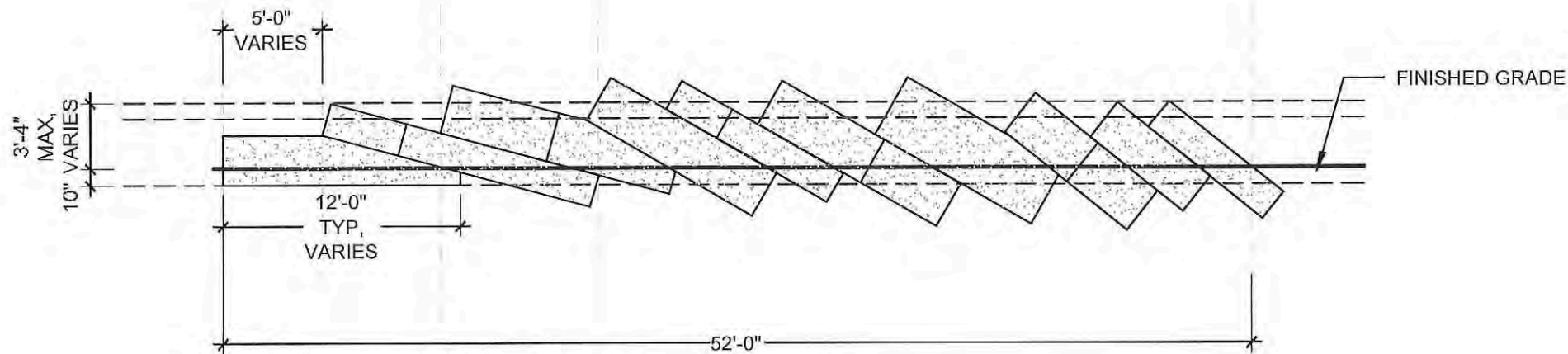
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|---|--|---|--|--|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|---|---|------------------------|--|--|
| Sheet Revisions | | | | | | | | | | | | | | | | | | | | | | | | |
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| DESIGN WORKSHOP Landscape Architecture • Land Planning Urban Design • Tourism Planning 120 East Main Street Aspen, Colorado 81611-1787 (970)-925-8354 WWW.DESIGNWORKSHOP.COM | Designer: Mike Albert Detailer: Ashley Allis Sheet Subset: SITE DETAILS | Structure Numbers Subset Sheets: L7-05 | | | | | | | | | | | | | | | | | | | | | | |



NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS.

1 ART PIECE - 3

1/8" = 1'-0"



NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS.

2 ART PIECE - 4

1/8" = 1'-0"

SITE KEYNOTES:

DETAIL / SHEET

| | | |
|-------------|--|-------------------|
| 1.0 | PAVEMENTS, RAMPS, CURBS | |
| 1.1 | Concrete Paving Type 1 (pedestrian) | See Civil Details |
| 1.2 | Concrete Paving Type 2 (pedestrian-enhanced) | See Civil Details |
| 1.3 | Concrete Paving Type 3 (vehicular access) | See Civil Details |
| 1.4 | Concrete Curb and Gutter | See Civil Details |
| 1.5 | ADA Ramp | See Civil Details |
| 1.6 | Not included at this time | |
| 1.7 | Concrete Slab | 01/L7-03 |
| 2.0 | JOINTING | |
| | Not Used at this Time | |
| 3.0 | STEPS | |
| | Not Used at this Time | |
| 4.0 | SITE WALLS/ EMBANKMENTS | |
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| 5.0 | SITE FURNITURE | |
| 5.1 | Bench | 01/L7-01 |
| 5.2 | Trash Receptacle | 02/L7-01 |
| 5.3 | Bike Rack | 03/L7-01 |
| 5.4 | Newspaper Box | 01/L7-02 |
| 6.0 | RAILINGS, BARRIERS, FENCING | |
| 6.1 | Chain Link Fence | 04/L7-01 |
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| 7.0 | SITE LIGHTING | |
| 7.1 | Pedestrian Lighting | By others |
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| 8.0 | DRAINAGE | |
| | Not Used at this Time | |
| 9.0 | PLANTING AND LANDSCAPE | |
| | Refer to Planting Plans | |
| 10.0 | MISCELLANEOUS ELEMENTS | |
| 10.1 | Art Piece - Typical | 1/L7-04 |
| 10.2 | Bus Pullout - Typical | 2/L7-03 |
| 10.3 | Art Piece - 1 | 1/L7-05 |
| 10.4 | Art Piece - 2 | 2/L7-05 |
| 10.5 | Art Piece - 3 | 1/L7-06 |
| 10.6 | Art Piece - 4 | 2/L7-06 |

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Region 3 **RBB**

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| No Revisions: |
| Revised: |
| Void: |



| | |
|----------------------------|----------------------|
| Landscape Plans | |
| Designer: Mike Albert | Structure Numbers |
| Detailer: Ashley Allis | |
| Sheet Subset: SITE DETAILS | Subset Sheets: L7-08 |

| |
|-------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 201 |

TABULATION OF LANDSCAPING

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | AS CONST. |
|-----------|--------------------------------------|------|----------|-----------|
| 207-00205 | TOPSOIL | CY | 8091 | |
| 212-00011 | SEEDING (LAWN) | AC | 0.56 | |
| 212-00040 | SOIL PREPARATION (LAWN) | AC | 0.56 | |
| 213-00065 | INORGANIC MULCH | CY | 483 | |
| 213-00705 | LANDSCAPE BOULDER (SPECIAL) | EA | 54 | |
| 214-00145 | PLANT PROTECTION FENCE | LF | 1980 | |
| 214-00230 | DECIDUOUS TREE (3 INCH CALIPER) | EA | 112 | |
| 214-00350 | DECIDUOUS SHRUB (5 GALLON CONTAINER) | EA | 295 | |
| 214-00910 | PERENNIALS (1 GALLON CONTAINER) | EA | 97 | |
| | | | | |
| | | | | |

SHRUB/GROUNDCOVER PLANTING KEY


| ABBR. | BOTANICAL NAME | COMMON NAME | SIZE | QTY |
|---|---|------------------------------------|----------------|-----------|
| TREES | | | | |
| GS | <i>Zelcova serrata 'Green Vase'</i> | Green Vase Zelkova | 2.5"-3.5" CAL. | 42 |
| PA | <i>Populus x acerifolia</i> | London Planetree | 2.5"-3.5" CAL. | 17 |
| PC | <i>Pistacia chinesis</i> | Chinese Pistache | 2.5"-3.5" CAL. | 18 |
| UF | <i>Ulmus 'Froniter'</i> | Frontier Elm | 2.5"-3.5" CAL. | 35 |
| DECIDUOUS & EVERGREEN SHRUBS | | | | |
| PF | <i>Potentilla fruticosa 'McKay's White'</i> | McKay's White Potentilla | 5 GAL. | 68 |
| JC | <i>Juniperus communis Alpine Carpet</i> | Alpine Carpet Juniper | 5 GAL. | 114 |
| PB | <i>Prunus besseyi Pawnee Buttes</i> | Creeping Western Sand Cherry | 5 GAL. | 71 |
| VO | <i>Viburnum opulus 'Compactum'</i> | Compact European Cranberrybush | 5 GAL. | 42 |
| PERENNIALS AND GRASSES | | | | |
| CA | <i>Calamagrostis arundinacea</i> | 'Karl Foerster' Feather Reed Grass | 1 GAL. | 97 |
| GRASSES, SEED MIXES, MULCHES AND EDGING | | | | |
|  | Turfgrass | Kentucky Bluegrass | Seed | 24,380 SF |
|  | Inorganic Mulch/ 1/4" Rock Material (Assume 4" depth) | | | 483 CY |

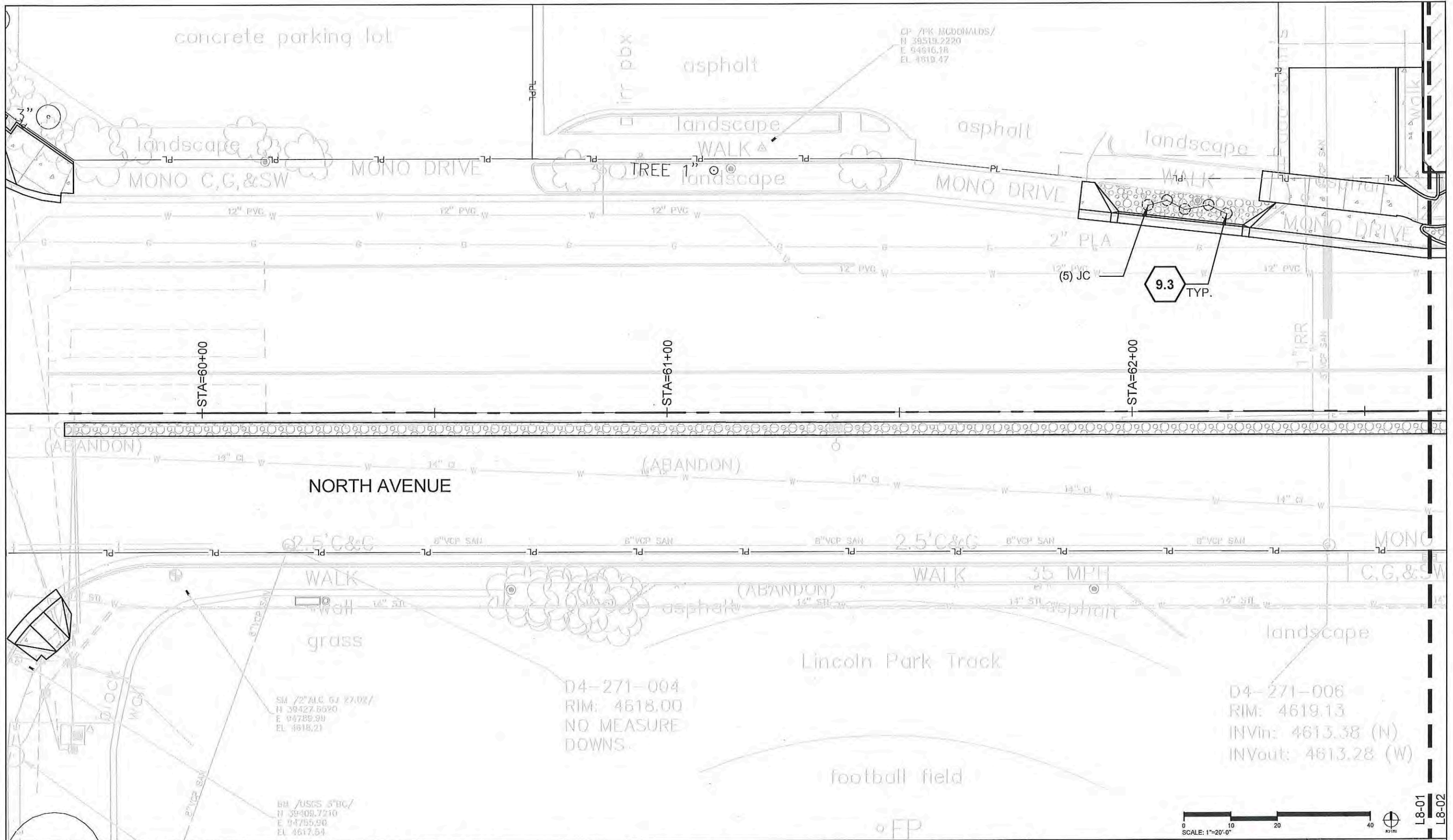
SITE KEYNOTES:

DETAIL / SHEET

9.0 PLANTING AND LANDSCAPE

| | | |
|-----|-------------------------|-----------|
| 9.1 | Tree Protection Fencing | 1 / L9-01 |
| 9.2 | Deciduous Tree Planting | 1 / L9-02 |
| 9.3 | Shrub Planting | 2 / L9-02 |
| 9.4 | Perennial Planting | 3 / L9-02 |
| 9.5 | Lawn Seeding | 1 / L9-03 |

| | | | | | | | | |
|---|---|------------------------|-----------|---|--|------------------------|-----------------------|--|
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| File Name: <small>4 11 14 10 16 - 15 15.mxd</small> | | Date: | Comments: | | | Init. | Designer: Mike Albert | |
| DESIGNWORKSHOP Landscape Architecture • Land Planning Urban Design • Tourism Planning <small>WWW.DESIGNWORKSHOP.COM</small> | 120 East Main Street Aspen, Colorado 81611-1787 (970)-925-8354 | | | | Detailer: Ashley Allis Sheet Subset: PLANTING Subset Sheets: L8-00 | | | |



Print Date: AUGUST 21, 2015
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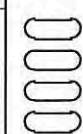
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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

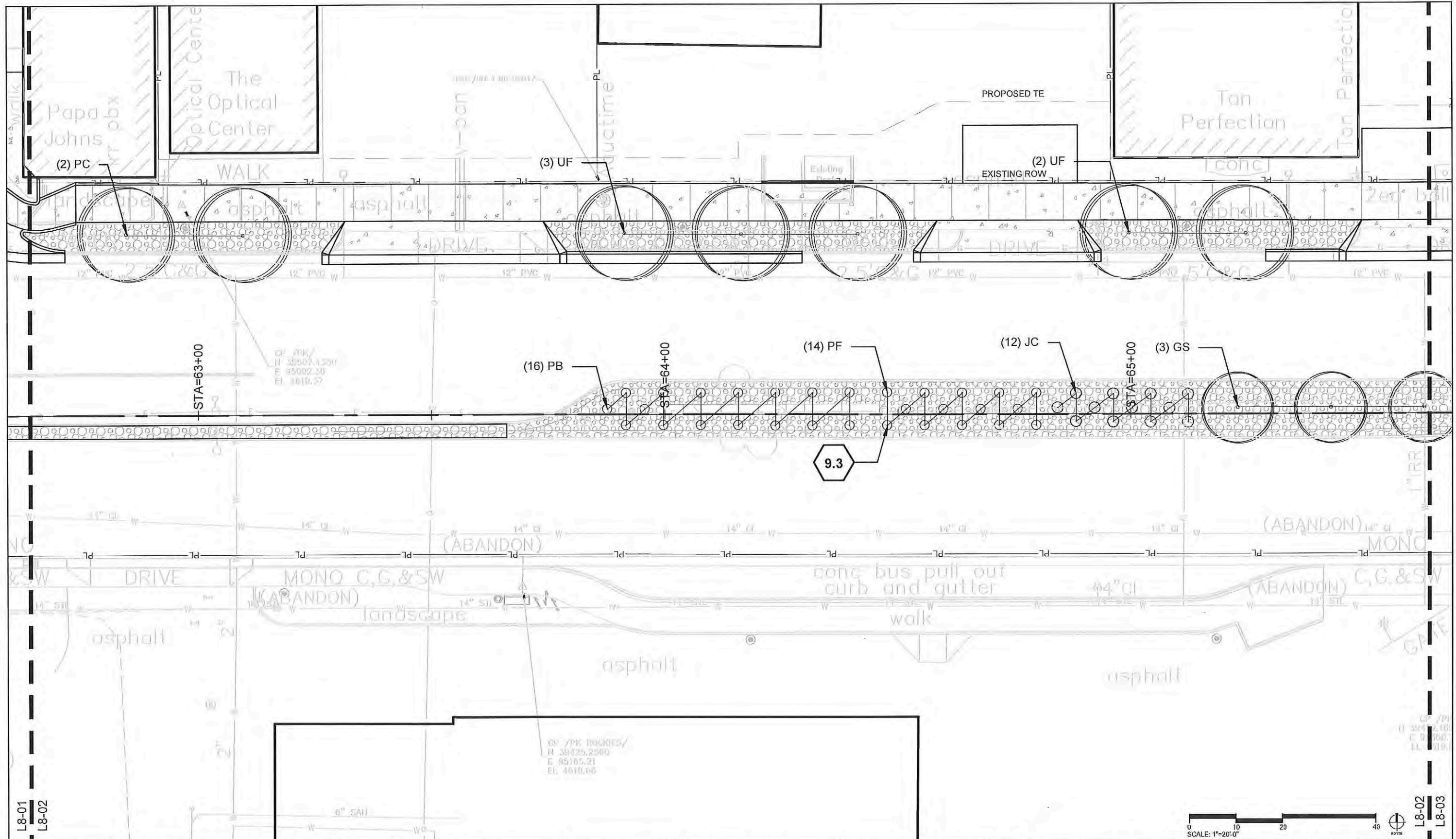
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 No Revisions:
 Revised:
 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-01

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **203**



L8-01
 L8-02



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 Urban Design • Tourism Planning (970)-925-8354
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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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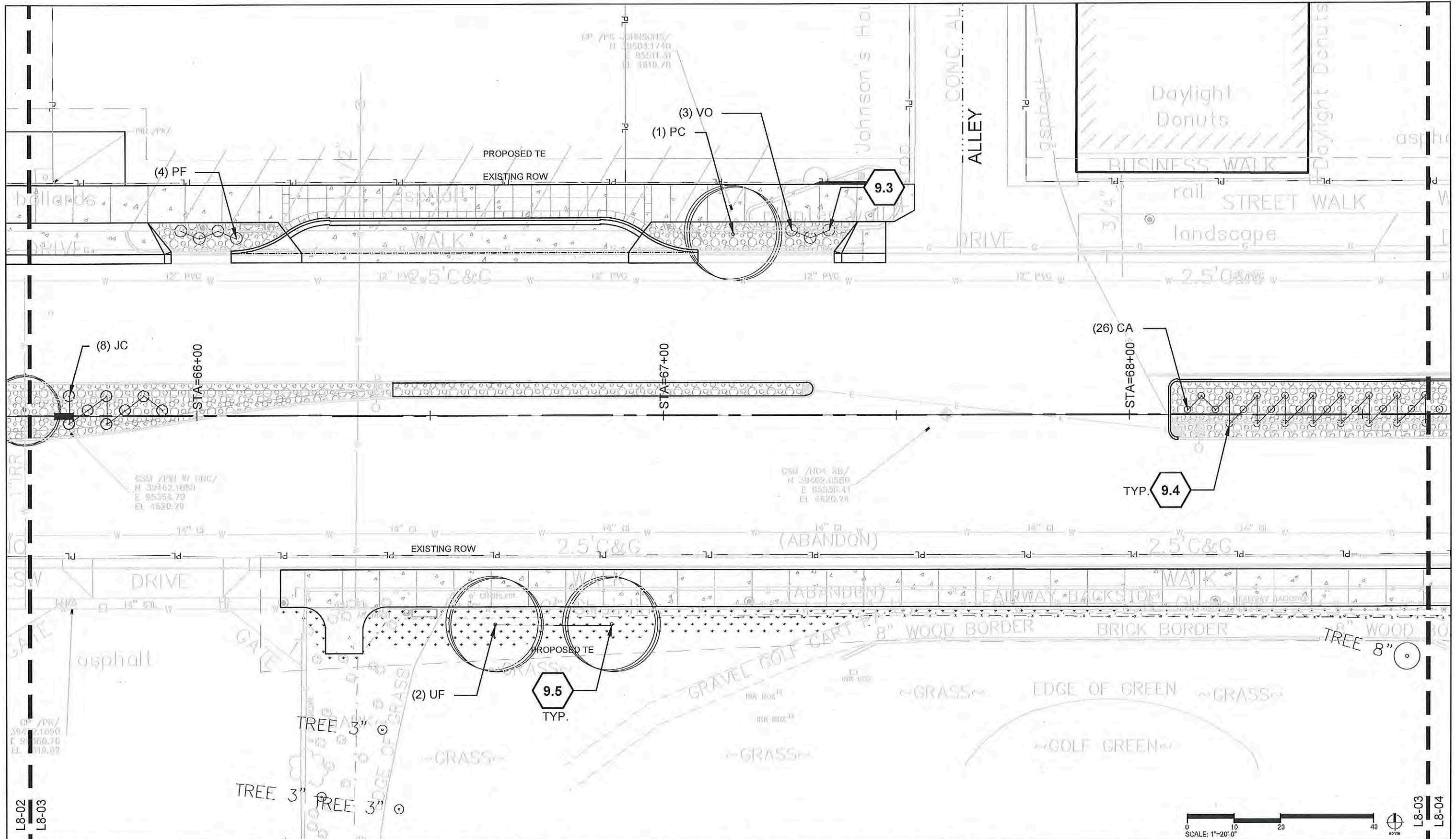
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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-02

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **204**



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 File Name: A:\14_2015-F24.mxd
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| Sheet Revisions | | |
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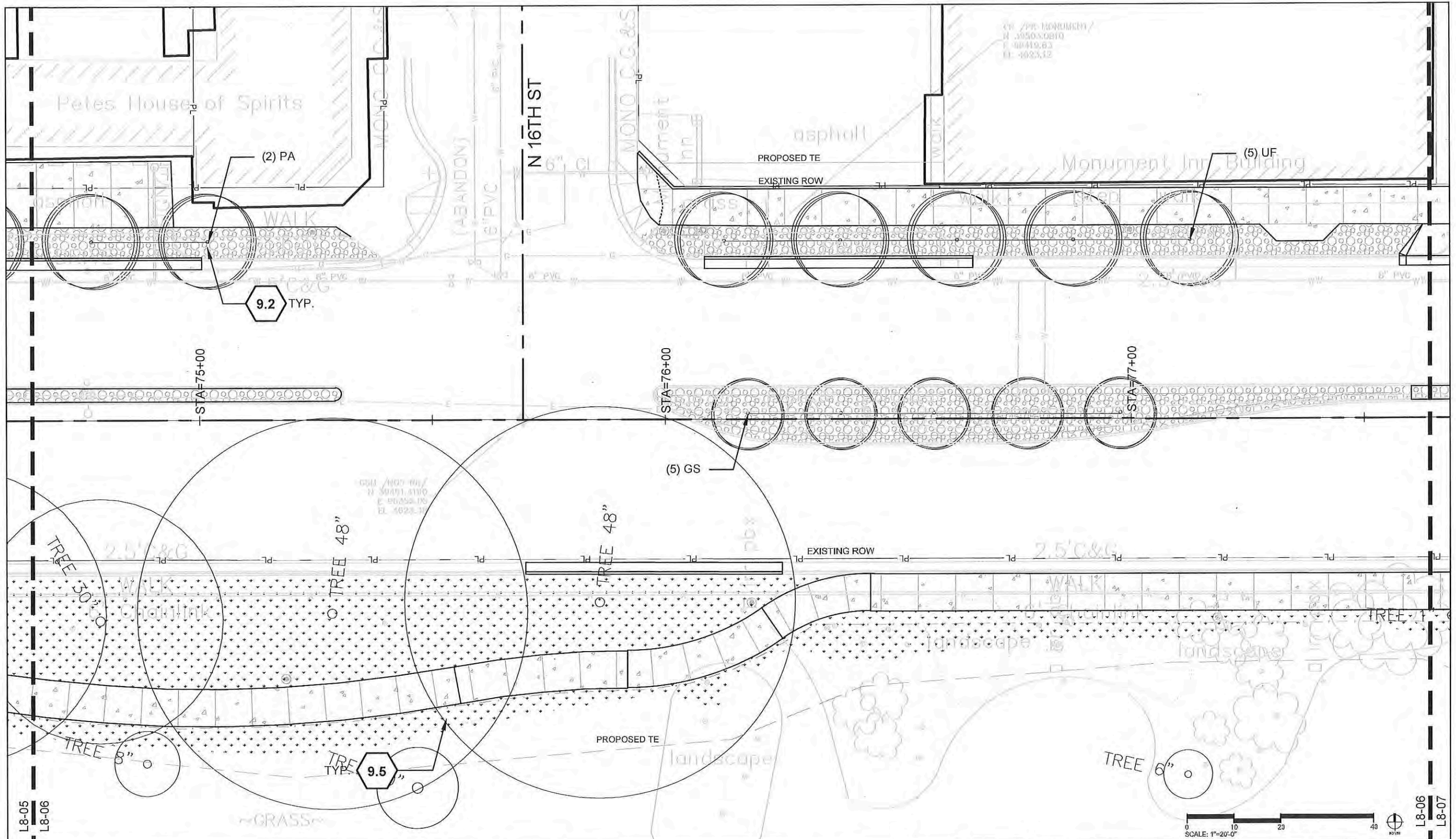
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As Constructed
 No Revisions:
 Revised:
 Void:


Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-03

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **205**



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 File Name: A:\14_2015-1525\14_2015-1525.dwg
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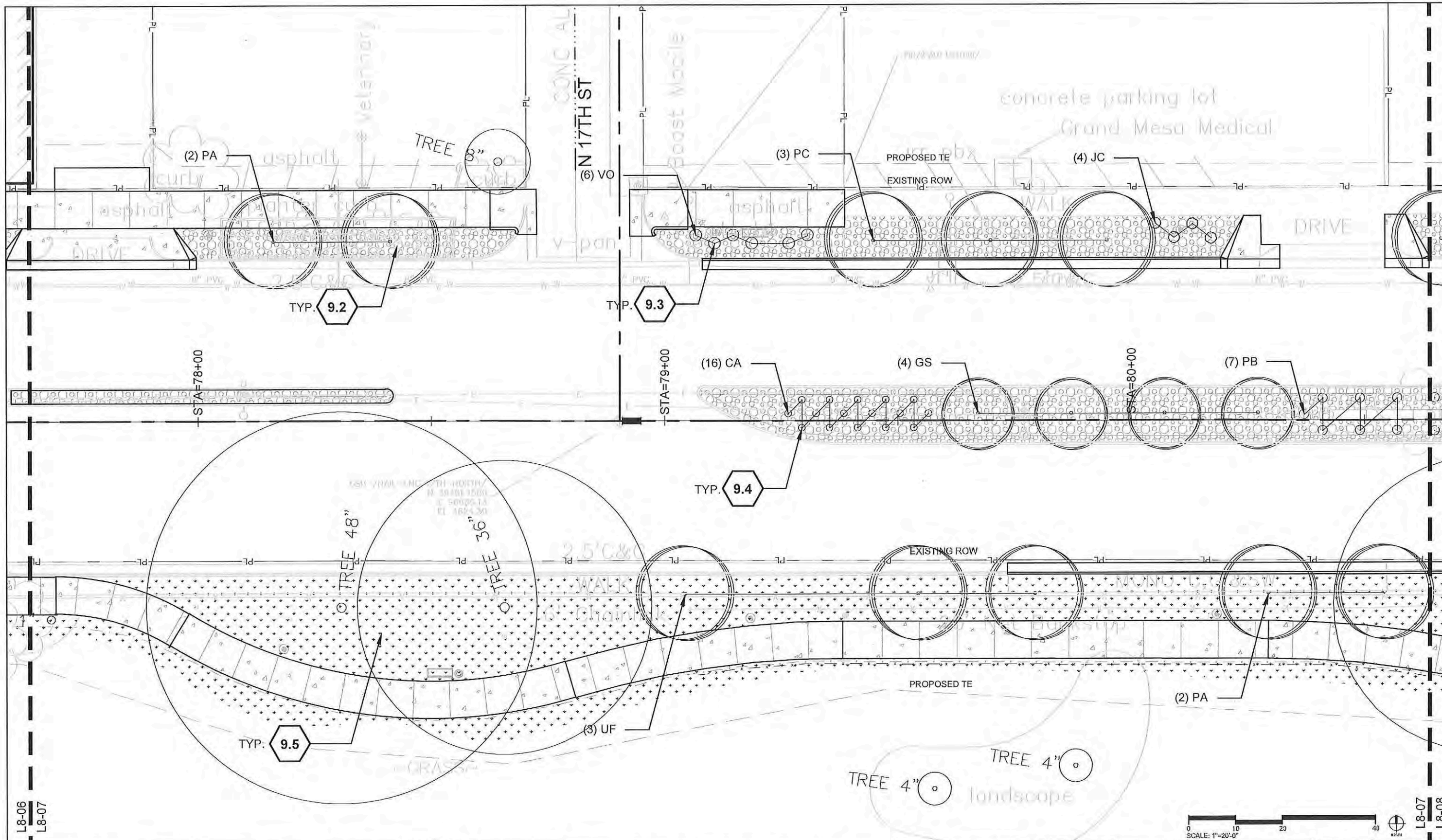
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| Date: | Comments | Init. |
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Colorado Department of Transportation

 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-06

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **208**

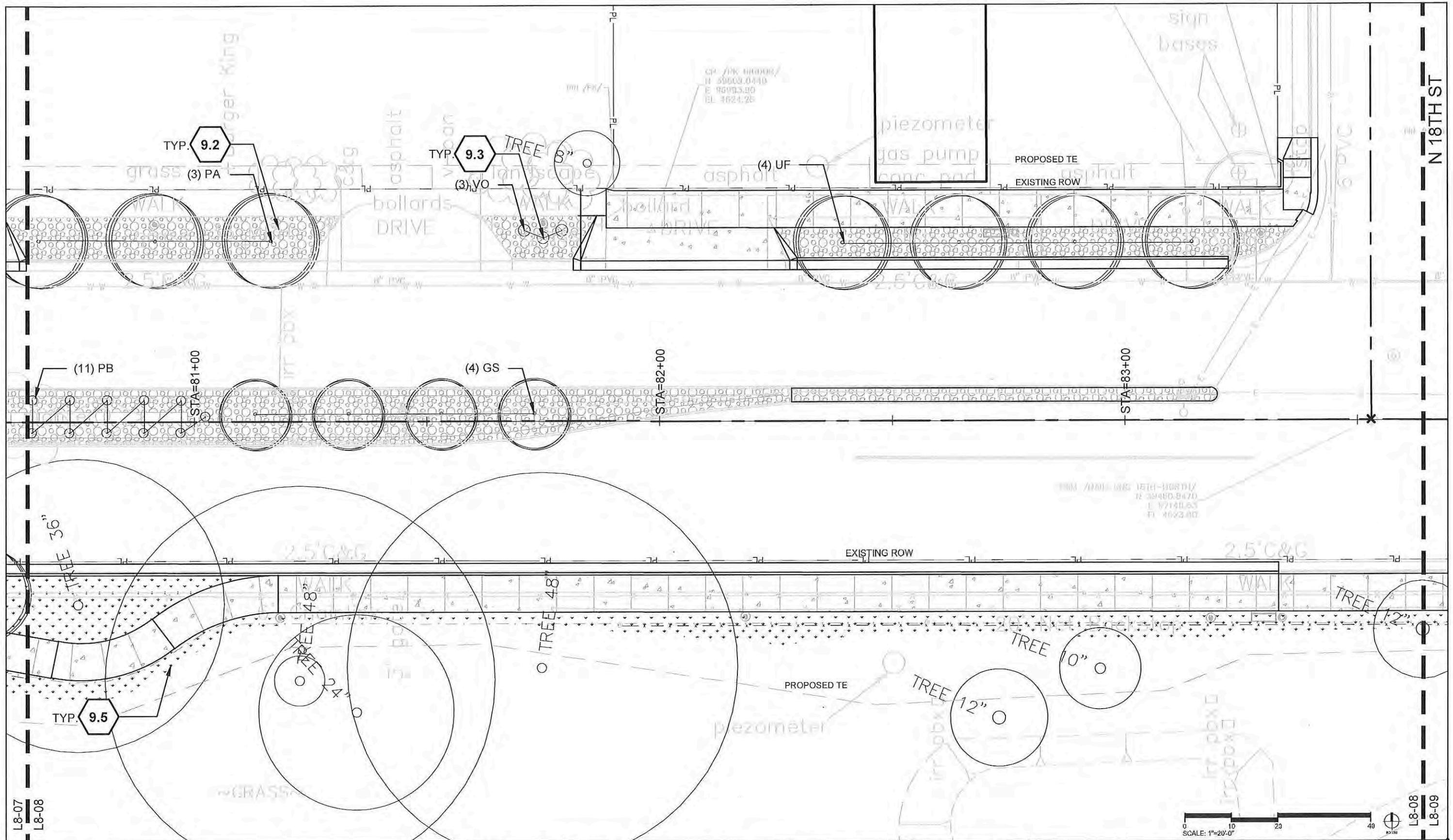


L8-06
L8-07

L8-07
L8-08




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|--|------------------------|-------------------|----------------------|---|---|------------------------|---|--|
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| | | Date: | Comments | | | Init. | Designer: Mike Albert Detailer: Ashley Allis Sheet Subset: PLANTING | |



Print Date: AUGUST 21, 2015
 File Name: L8-08.dwg
DESIGN WORKSHOP
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 Urban Design • Tourism Planning
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 (970)-925-8354
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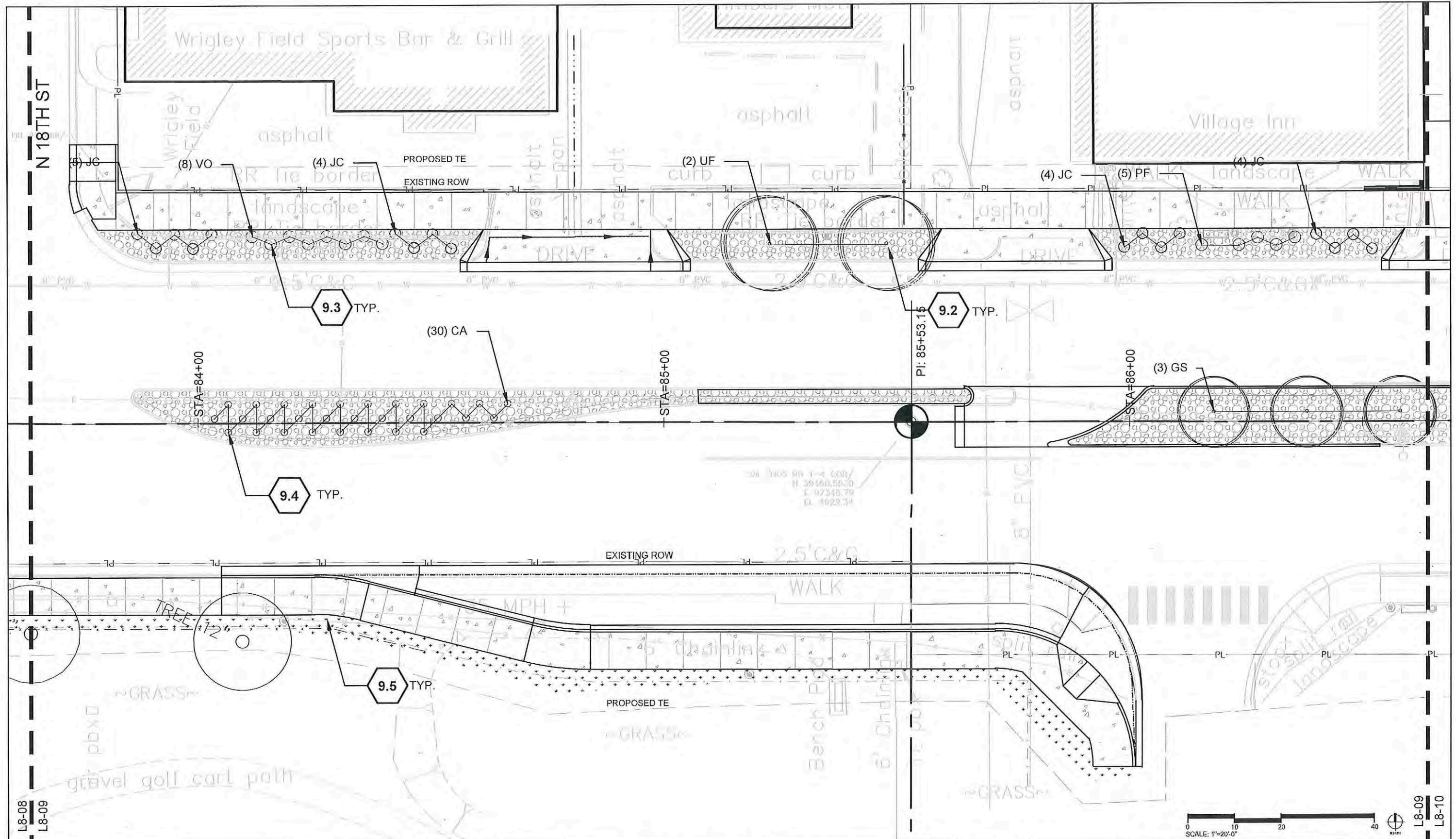
As Constructed
 No Revisions:
 Revised:
 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-08

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **210**

L8-07
 L8-08

L8-08
 L8-09



Print Date: AUGUST 21, 2015
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| Date: | Comments | Init. |
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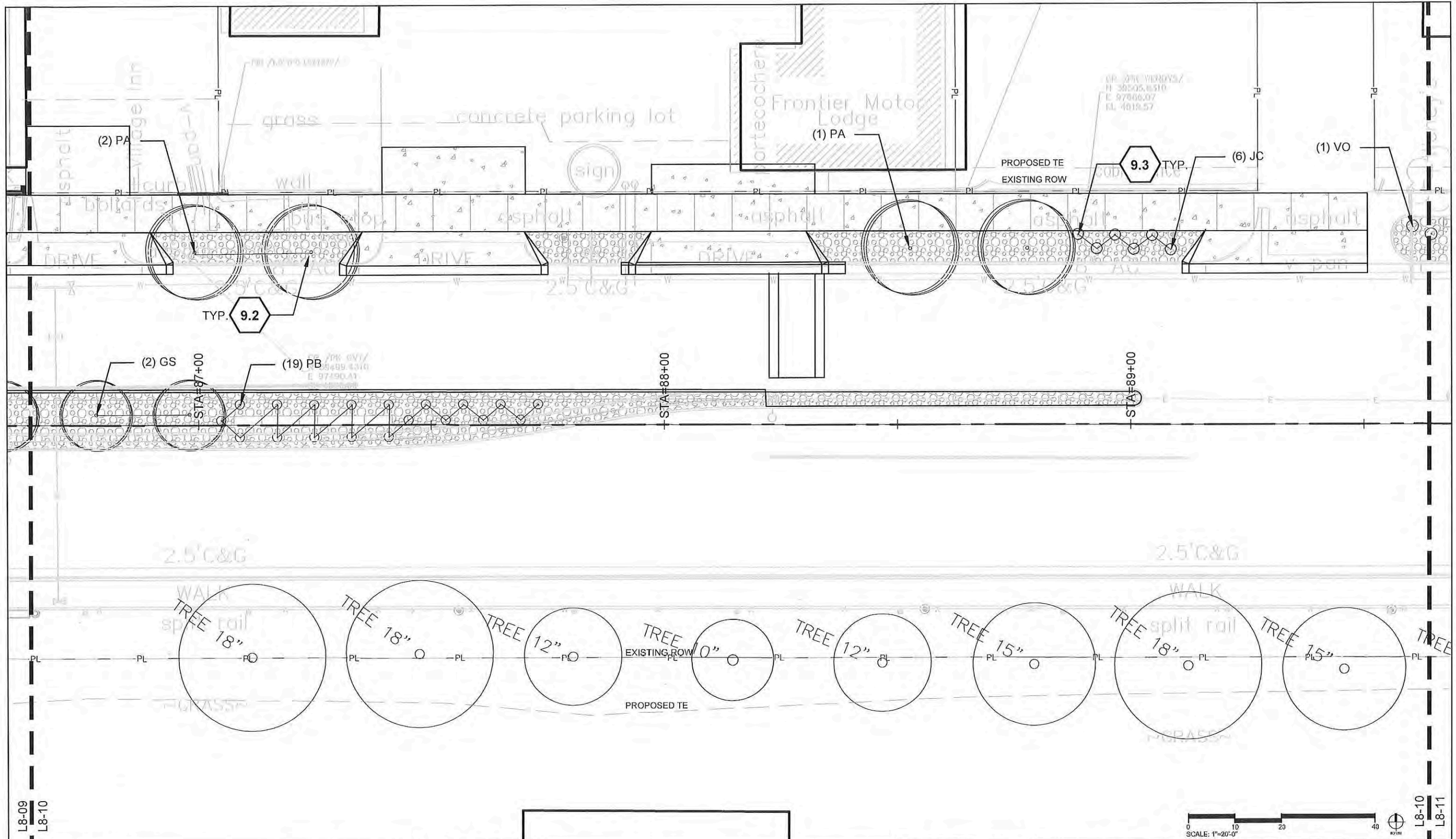
Colorado Department of Transportation

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 Grand Junction, CO, 81501
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As Constructed
 No Revisions:
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 Void:

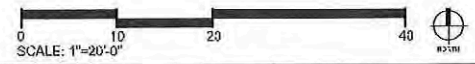
Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-09

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **211**



L8-09
L8-10

L8-10
L8-11



Print Date: AUGUST 21, 2015
 File Name: A:\14 2015-2016\14-2016\14-2016-02\14-2016-02-01\14-2016-02-01-01.dwg
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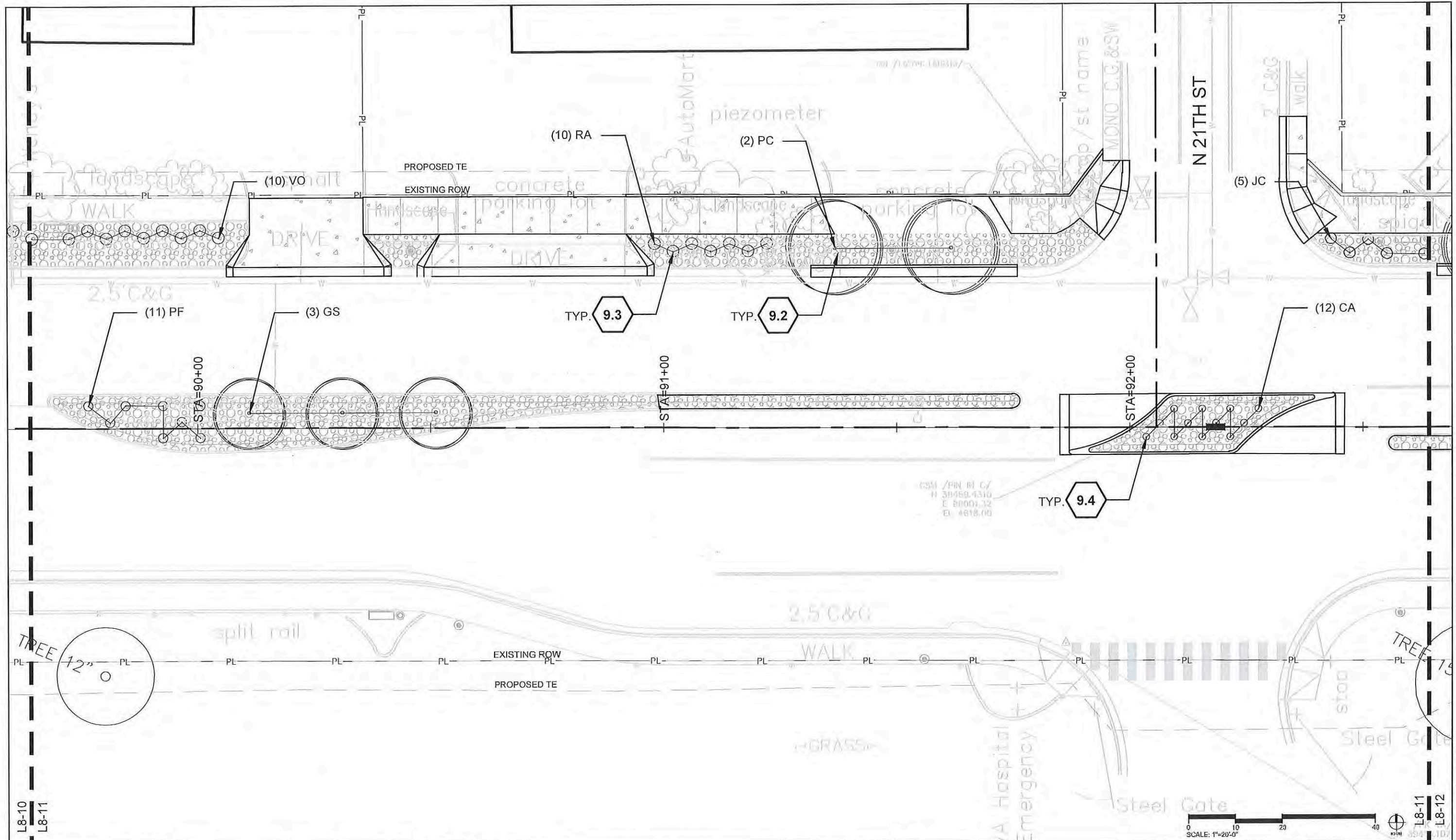
Colorado Department of Transportation

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Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-10

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **212**



Print Date: AUGUST 21, 2015
 File Name: A:\14_0816-077\14_0816-077.dwg
DESIGNWORKSHOP 120 East Main Street
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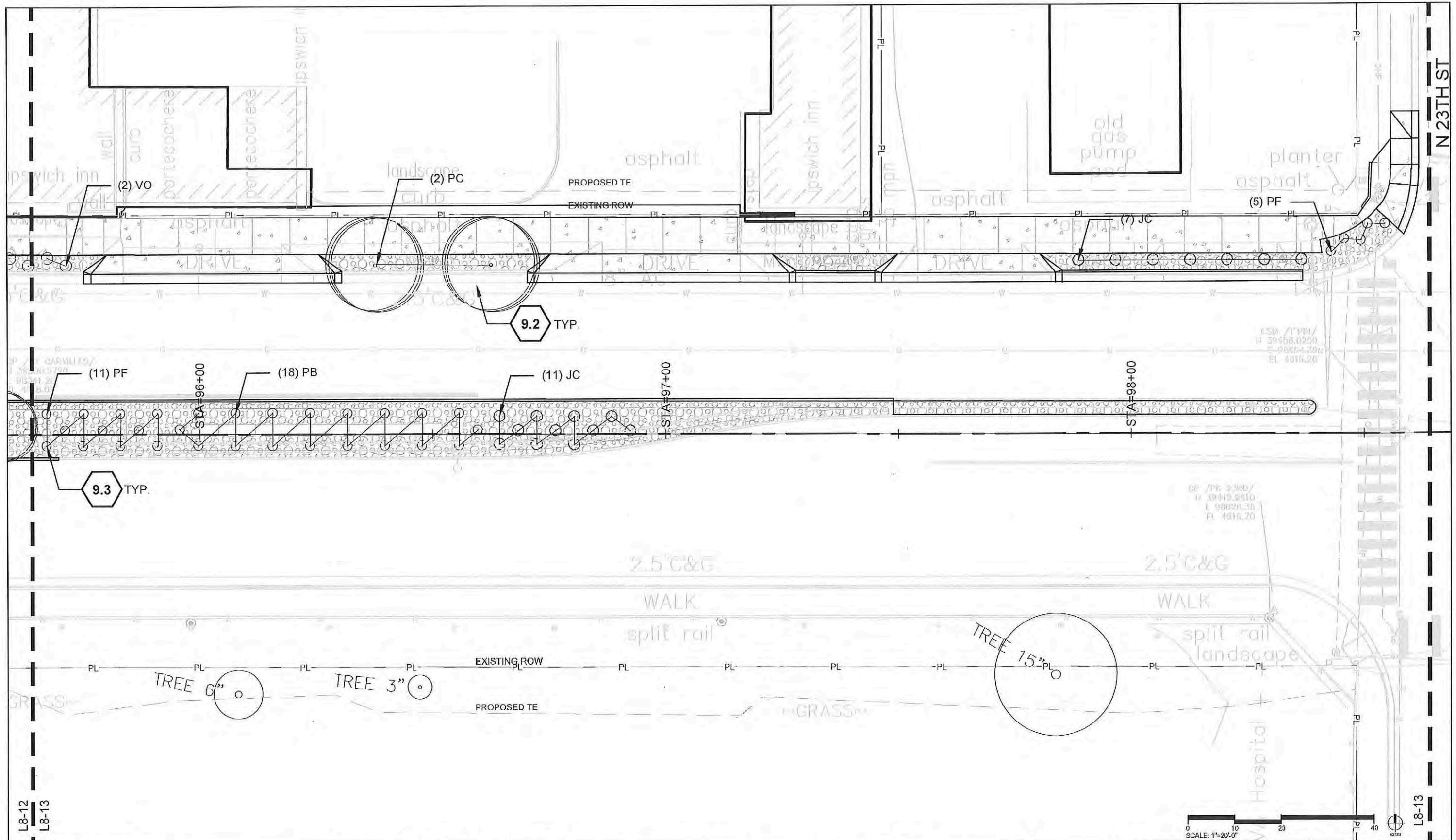
| Sheet Revisions | | |
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Region 3 **RBB**

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 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-11

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **213**



Print Date: AUGUST 21, 2015
 File Name: A:\14_2015-F27.mxd
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 Void:

Landscape Plans
 Designer: Mike Albert
 Detailer: Ashley Allis
 Sheet Subset: PLANTING
 Structure Numbers
 Subset Sheets: L8-13

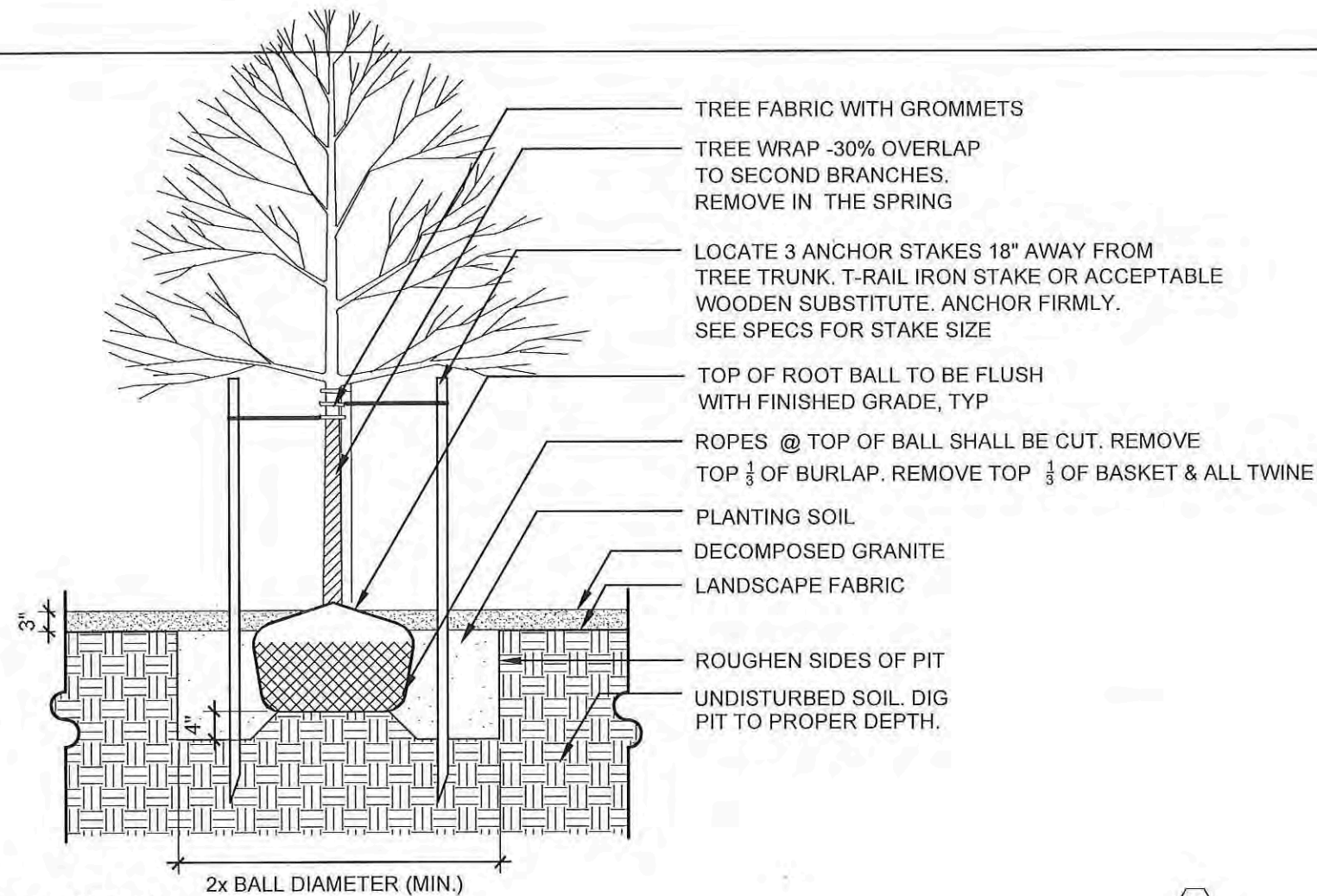
Project No./Code
 TCSP M555-029
 19365
 Sheet Number **215**

SITE KEYNOTES:

DETAIL / SHEET

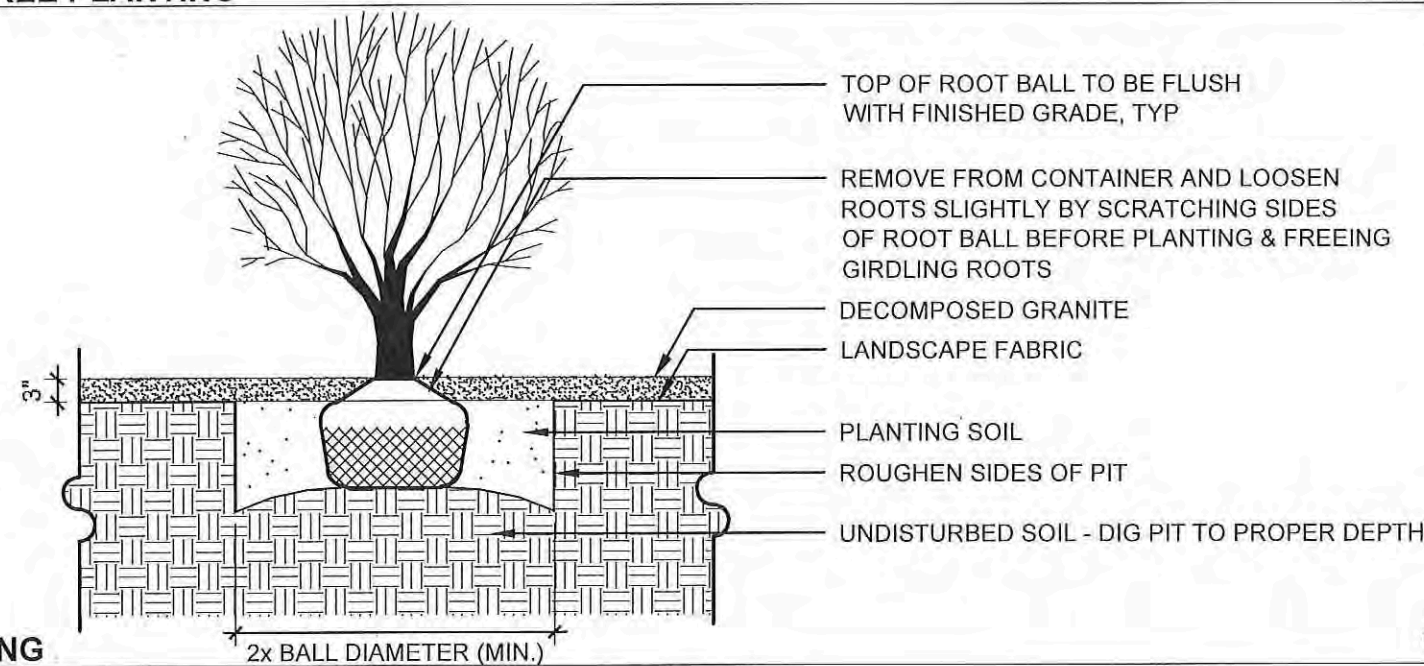
9.0 PLANTING AND LANDSCAPE

| | | |
|-----|-------------------------|-----------|
| 9.1 | Tree Protection Fencing | 1 / L9-01 |
| 9.2 | Deciduous Tree Planting | 1 / L9-02 |
| 9.3 | Shrub Planting | 2 / L9-02 |
| 9.4 | Perennial Planting | 3 / L9-02 |
| 9.5 | Lawn Seeding | 1 / L9-03 |



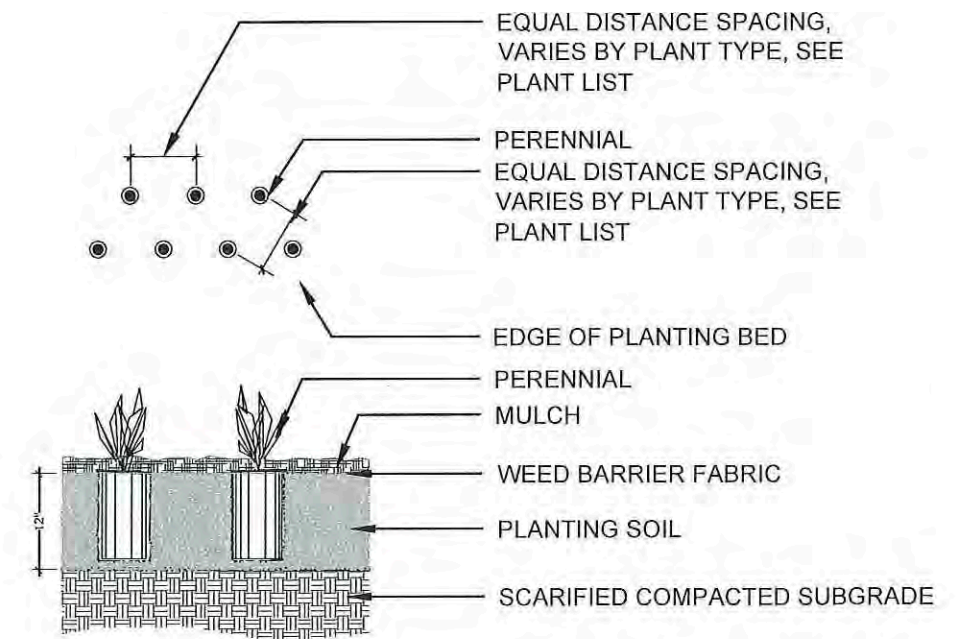
1 DECIDUOUS TREE PLANTING

1/2" = 1'-0"



2 SHRUB PLANTING

1/2" = 1'-0"



3 PERENNIAL PLANTING

1/2" = 1'-0"

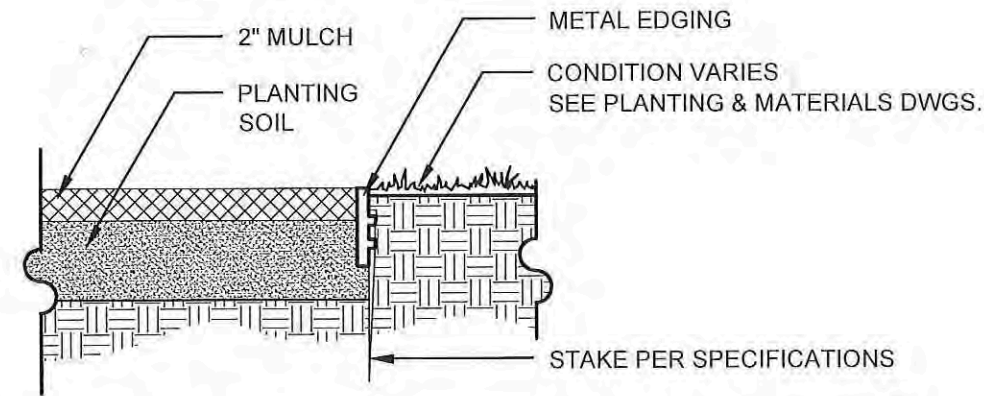
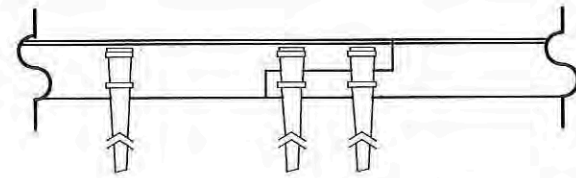
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| Print Date: AUGUST 21, 2015 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Landscape Plans | | Project No./Code | |
| File Name: A:\14_2015-1787\14-2015-1787-01.dwg | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: Mike Albert | | TCSP M555-029 | |
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| | | | | | | Void: | | Sheet Subset: PLANTING DETAILS | | Subset Sheets: L9-02 | |
| | | | | | | | | | | Sheet Number | |

SITE KEYNOTES:

DETAIL / SHEET

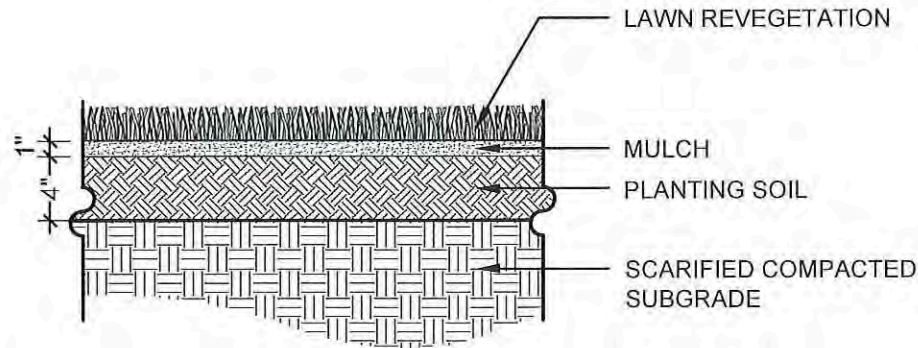
9.0 PLANTING AND LANDSCAPE

| | | |
|-----|-------------------------|-----------|
| 9.1 | Tree Protection Fencing | 1 / L9-01 |
| 9.2 | Deciduous Tree Planting | 1 / L9-02 |
| 9.3 | Shrub Planting | 2 / L9-02 |
| 9.4 | Perennial Planting | 3 / L9-02 |
| 9.5 | Lawn Seeding | 1 / L9-03 |



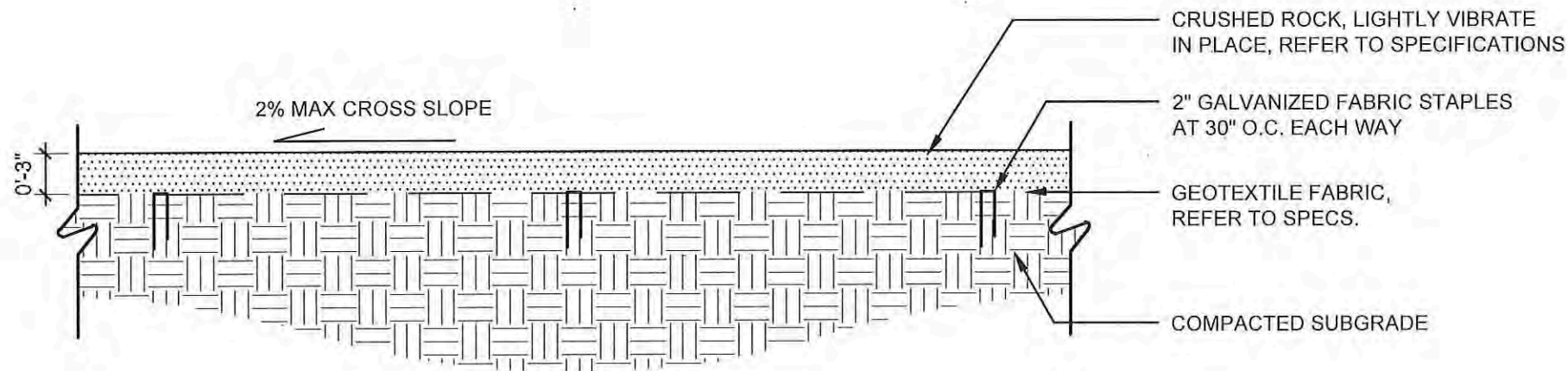
1 METAL EDGING
1" = 1'-0"

9.5



2 LAWN SEEDING
1" = 1'-0"

9.7



3 INORGANIC MULCH
1" = 1'-0"

9.6

| | | | | | | | | | | | | |
|--|-----------------|----------|-------|--|--|----------------|--|---|--|----------------------|------------|--------------|
| Print Date: AUGUST 21, 2015 | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Landscape Plans | | Project No./Code | | |
| File Name: A:\14_2015\15-08\15-08.dwg | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | | No Revisions: | | Designer: Mike Albert Detailer: Ashley Allis | | TCSP M555-029 | | |
| DESIGNWORKSHOP Landscape Architecture • Land Planning Urban Design • Tourism Planning 120 East Main Street Aspen, Colorado 81611-1787 (970)-925-8354 WWW.DESIGNWORKSHOP.COM | | | | | | Revised: | | | | Structure Numbers | | 19365 |
| | | | | | | Void: | | Sheet Subset: PLANTING DETAILS | | Subset Sheets: L9-03 | | Sheet Number |
| | | | | | | | | | | | 218 | |

IRRIGATION CONSTRUCTION NOTES

1. DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY DESIGN WORKSHOP. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.
2. SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 78 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OF ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 78 PSI MINIMUM.
3. IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A THREE NIGHT PER WEEK, EIGHT HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.

| | |
|----------------------|----------------------------|
| BLUEGRASS TURF | 2.40" PER WEEK PEAK SEASON |
| ORNAMENTAL PLANTINGS | 0.87" PER WEEK PEAK SEASON |
4. EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE.
5. SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING.

| SLEEVED PIPE SIZE/WIRE QUANTITY | REQUIRED SLEEVE SIZE & (QUANTITY) |
|---------------------------------|-----------------------------------|
| ¾" - 1¼" PIPING | 2" PVC (1) |
| 1½" - 2" PIPING | 4" PVC (1) |
| 2½" - 3" PIPING | 6" PVC (1) |
| 1-50 CONTROL WIRES | 2" PVC (1) |
6. MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO INSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
7. POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 15 SERIES NOZZLES ON ALL HEADS SPACED AT 12' TO 14'. INSTALL 12 SERIES NOZZLES ON ALL HEADS SPACED 10' TO 11'. INSTALL 10 SERIES NOZZLES ON ALL HEADS SPACED AT 8' TO 9'. INSTALL 8 SERIES NOZZLES ON ALL HEADS SPACED AT 6' TO 7'. INSTALL SIDE STRIP NOZZLES ON ALL HEADS WITH AN "S" DESIGNATION AND RIGHT AND LEFT CORNER STRIP NOZZLES ON ALL HEADS WITH AN "C" DESIGNATION. VARIABLE ARC NOZZLES SHOULD BE UTILIZED ADJACENT TO CURVILINEAR SHRUB BEDS OR FOR ANY ANGLES THAT ARE NOT A STANDARD NOZZLE ANGLE.
8. DRIP IRRIGATION - REFER TO IRRIGATION DETAIL SHEET FOR DRIP EMITTER QUANTITIES AND PLACEMENT.
9. SPARE CONTROL WIRES - CONTRACTOR SHALL EXTEND THREE SPARE WIRES (ONE COMMON AND 2 CONTROL WIRES) FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER OR AS SHOWN ON THE PLANS. INSTALL SPARE WIRES IN 10" ROUND VALVE BOX WITH QUICK COUPLING VALVE. REFER TO SPECIFICATIONS FOR WIRE COLOR. SEE IRRIGATION SCHEDULE FOR ADDITIONAL INFORMATION.
10. ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
11. EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS ON THE GOLF COURSE AND/OR RETAIL DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.

12. EXISTING IRRIGATION COORDINATION - EXISTING IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR MORE THAN 24 HOURS MAXIMUM. CONTRACTOR SHALL COORDINATE TURN OFF OF SYSTEM WITH OWNER OR MAINTENANCE STAFF 72 HOURS PRIOR TO ANY NEW CONSTRUCTION.
13. UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.

IRRIGATION KEYNOTES

- 1.0
EXISTING GOLF COURSE IRRIGATION
 - 1.1 FIELD LOCATE ALL OF THE EXISTING RAIN BIRD EAGLE 750 SPRAY HEADS, RELOCATED TO INSIDE OF NEW FENCE, REPLACE IF DAMAGED AND FIELD ADJUST TO PREVENT SPRAY INTO THE NEW SIDEWALK.
 - 1.2 FIELD LOCATE AND PROTECT EXISTING MAINLINE, CONTROL WIRES AND CONTROL VALVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING IRRIGATION EQUIPMENT.
 - 1.3 COORDINATE ALL OF THE NEW IRRIGATION CONSTRUCTION AND/OR REPAIRS WITH THE GOLF COURSE STAFF.
 - 1.4 CONTRACTOR SHALL REPLACE ANY LANDSCAPE MATERIAL DAMAGE DURING THE CONSTRUCTION.
- 2.0
EXISTING RETAIL IRRIGATION SYSTEMS
 - 2.1 FIELD LOCATE ALL OF THE EXISTING SPRAY HEADS OR DRIP, RELOCATED IF NECESSARY, REPLACE IF DAMAGED AND FIELD ADJUST TO PREVENT SPRAY OR IRRIGATE INTO THE NEW OR EXISTING SIDEWALK.
 - 2.2 FIELD LOCATE AND PROTECT EXISTING MAINLINE, CONTROL WIRES AND CONTROL VALVES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ANY DAMAGE TO THE EXISTING IRRIGATION EQUIPMENT.
 - 2.3 COORDINATE ALL OF THE NEW IRRIGATION CONSTRUCTION AND/OR REPAIRS WITH THE STAFF RESPONSIBLE FOR EACH OF THE EXISTING IRRIGATION SYSTEMS IN EACH RETAIL STORE AND/OR RESTAURANTS.
 - 2.4 CONTRACTOR SHALL REPLACE ANY LANDSCAPE MATERIAL DAMAGE DURING THE CONSTRUCTION.
- 3.0
REGULAR SLEEVING INSTALLATION
 - 3.1 INSTALL SLEEVING PER IRRIGATION PLANS, SIZE PER IRRIGATION PLANS AND TYPE PER IRRIGATION SCHEDULE. SEE DETAIL #12
- 4.0
BORE-IN SLEEVING INSTALLATION
 - 4.1 INSTALL SLEEVING VIA DIRECTIONAL BORING PER IRRIGATION PLANS, SIZE PER IRRIGATION PLANS AND TYPE PER IRRIGATION SCHEDULE. SEE DETAIL #12
 - 4.2 DAMAGE TO EXISTING SURFACES SHALL BE REPAIR BY THE CONTRACTOR AT NO COST TO THE OWNER.
 - 4.3 SLEEVING IN BETWEEN MEDIANS WILL NEED TO BE CORE DRILLED THROUGH CONCRETE FOUNDATION WALLS AT DEPTHS SPECIFIED OR DETAIL #12 (DO NOT BORE UNDER FOUNDATION).

REFER TO SHEET

| | |
|-------------|-----------------------|
| IR01 | IRRIGATION NOTES |
| IR02 | IRRIGATION SCHEDULE |
| IR03 - IR15 | IRRIGATION PLANS |
| IR16 - IR19 | IRRIGATION DETAILS |
| IR20 | IRRIGATION TABULATION |



Know what's below.
Call before you dig.
 CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)

| | | | | | | | | |
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| Print Date: August 21, 2015. | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Sheet Revisions | Colorado Department of Transportation | As Constructed | Irrigation Notes | | Project No./Code | |
| File Name: North Avenue | | Date: | Comments | Init. | No Revisions: | | | TCSP M555-029 |
| Horiz. Scale: Vert. Scale: NA | | | | | Revised: | Designer: Hugo Ochoa | Structure Numbers | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | Void: | Detailer: Ken DiPaolo | Sheet Subset: | Sheet Number 219 |
| | | | Region 3 | RBB | Sheet Subset: | Subset Sheets: IR-01 | | |

606 South 9th Street
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 Phone: 970-683-6351 FAX: 970-683-6369

IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER | MODEL NO. | DESCRIPTION | DETAIL NO. |
|--------|--------------|--------------------------------------|-----------------------------------|------------|
| | RAIN BIRD | 1806-SAM-PRS W/ MPR-SERIES NOZZLES | POPOP SPRAY HEAD | 1 |
| | RAIN BIRD | 1806-SAM-PRS W/ STRIP-SERIES NOZZLES | POPOP SPRAY HEAD | 1 |
| | RAIN BIRD | PEB SERIES | ELECTRIC CONTROL VALVE | 2 |
| | RAIN BIRD | 44-LRC | QUICK COUPLING VALVE | 3 |
| | RAIN BIRD | ESP-SAT | SATELLITE CONTROLLER | 4 |
| | RAIN BIRD | WR2-RFC | RAIN SHUT-OFF DEVICE | 5 |
| | FEBCO | 825YA | BACKFLOW PREVENTER | 6 |
| N/S | STRONG BOX | SBBC-30AL | BACKFLOW PREVENTER ENCLOSURE | 7 |
| N/S | MATCO | 201X | MANUAL DRAIN VALVE | 8 |
| | | LINE SIZE | GATE VALVE | 9 |
| | RAIN BIRD | 1.5" - EFB-CP | MASTER CONTROL VALVE | 10 |
| | | CLASS 200 BE | PVC MAINLINE | 11 |
| | | CLASS 200 BE | PVC LATERAL | 11 |
| | | CLASS 40 BE | PVC SLEEVING | 12 |
| | TORO | BLUE STRIPE | POLY DRIP TUBING -3/4" MIN. WIDTH | 13 |
| | RAIN BIRD | XGZ-075-PRF W/ BALL VALVE | DRIP VALVE ASSEMBLY | 14 & 15 |
| | | | DRIP LINE BLOW-OUT STUB | 16 |
| N/S | RAIN BIRD | XERI-BUG | DRIP EMITTERS | 13 |
| | RAIN BIRD | 1402 | BUBBLER | 17 |
| | RAIN BIRD | FS-150P | FLOW SENSOR | 18 |
| | | | EXISTING WATER METER | N/S |

| | | |
|--|--|--|
| | CONTROLLER & STATION NO. | |
| | CONTROL VALVE SIZE | |
| | NUMBER OF SPARE WIRES - 2 CONTROL AND 1 SPARE WIRES TO WHICH CONTROLLER - SEE CONSTRUCTION NOTES | |

A - CONTROLLER LOCATION "A"

PEDESTAL MOUNT ONE 40 STATION RAIN BIRD ESP-SAT SATELLITE LINK CONTROLLER WITH RADIO MODEM KIT, FREQUENCY SPECIFIED, FLOW SENSING, STAINLESS STEEL PEDESTAL, ANTENNA 3002 AND PULSE TRANSPONDER, REMOTE READY, AT INDICATED LOCATION. 120 VOLT POWER IS AVAILABLE WITHIN 20 LF. OF CONTROLLER LOCATION FROM LIGHT POLE. ELECTRICAL METER, WIRE/CONDUIT, STEP-DOWN TRANSFORMER (IF REQUIRED) AND POWER CONNECTION TO CONTROLLER IS BY CONTRACTOR WITH WORK CONFORMING TO LOCAL CODES. EXTEND PEB9 SHIELDED CABLE FROM THE FLOW SENSOR AND 4 #14 UFUL WIRES (TWO BLUE AND TWO ORANGE) FROM MASTER VALVE TO CONTROLLER "A". CONNECT WIRES TO THE APPROPRIATE SENSOR INPUT PORTS. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. MOUNT ONE RAIN BIRD WR2-RFC RAIN-FREEZE DEVICE ON POLE WHERE THERE IS 20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. INSTALL RAIN SENSOR RECEIVER IN CONTROLLER ENCLOSURE. FINAL RAIN SENSOR LOCATION SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. FINAL CONTROLLER LOCATION SHALL BE APPROVED, FOLLOWING COMMUNICATION VERIFICATION, BY CITY PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE CONTROLLER MODEL NUMBER AND FREQUENCY TEST WITH CITY AND MIKE HIGGINS AT GRAND JUNCTION PIPE, PRIOR TO ORDERING, 970-243-4604.

B - POINT OF CONNECTION #1718 North Ave. - 1.5"

PEAK FLOW REQUIREMENT: 25 GPM. REQUIRED STATIC PRESSURE: 75 PSI
 CONTRACTOR SHALL LOCATE THE EXISTING 1/2" TAP AND EXISTING 1/2" PRESSURE VACUUM BREAKER LOCATION AT 1718 NORTH AVENUE. REMOVE PRESSURE VACUUM BREAKER AND RETURN TO OWNER. INSTALL ONE NEW 1/2" STOP AND WASTE VALVE, ONE 1/2" REDUCED PRESSURE BACKFLOW PREVENTER WITH PROTECTIVE ENCLOSURE, ONE MANUAL DRAIN VALVE, ONE QUICK COUPLING VALVE, ONE 1/2" RAIN BIRD FS150P FLOW SENSOR, ONE 1/2" RAIN BIRD EFB-CP VALVE AS A MASTER VALVE, AND ONE 2" GATE VALVE AND EXTEND 2" PVC MAINLINE AS SHOWN. EXTEND ONE PEB9 SHIELDED CABLE FROM FLOW SENSOR TO DATA RETRIEVAL UNIT LOCATED IN CONTROLLER "A". EXTEND 4 UFUL14# WIRE (TWO ORANGE AND TWO BLUE) AND CONNECT 2 OF THE WIRES FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN CONTROLLER "A". SEE DETAIL SHEET FOR REQUIRED PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF FLOW SENSING UNIT. WORK SHALL CONFORM TO LOCAL CODE. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR. FINAL BACKFLOW PREVENTER LOCATION SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR TO INSTALLATION.

REFER TO SHEET

- IR01 IRRIGATION NOTES
- IR02 IRRIGATION SCHEDULE
- IR03 - IR15 IRRIGATION PLANS
- IR16 - IR19 IRRIGATION DETAILS
- IR20 IRRIGATION TABULATION

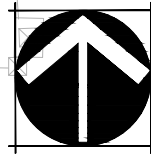
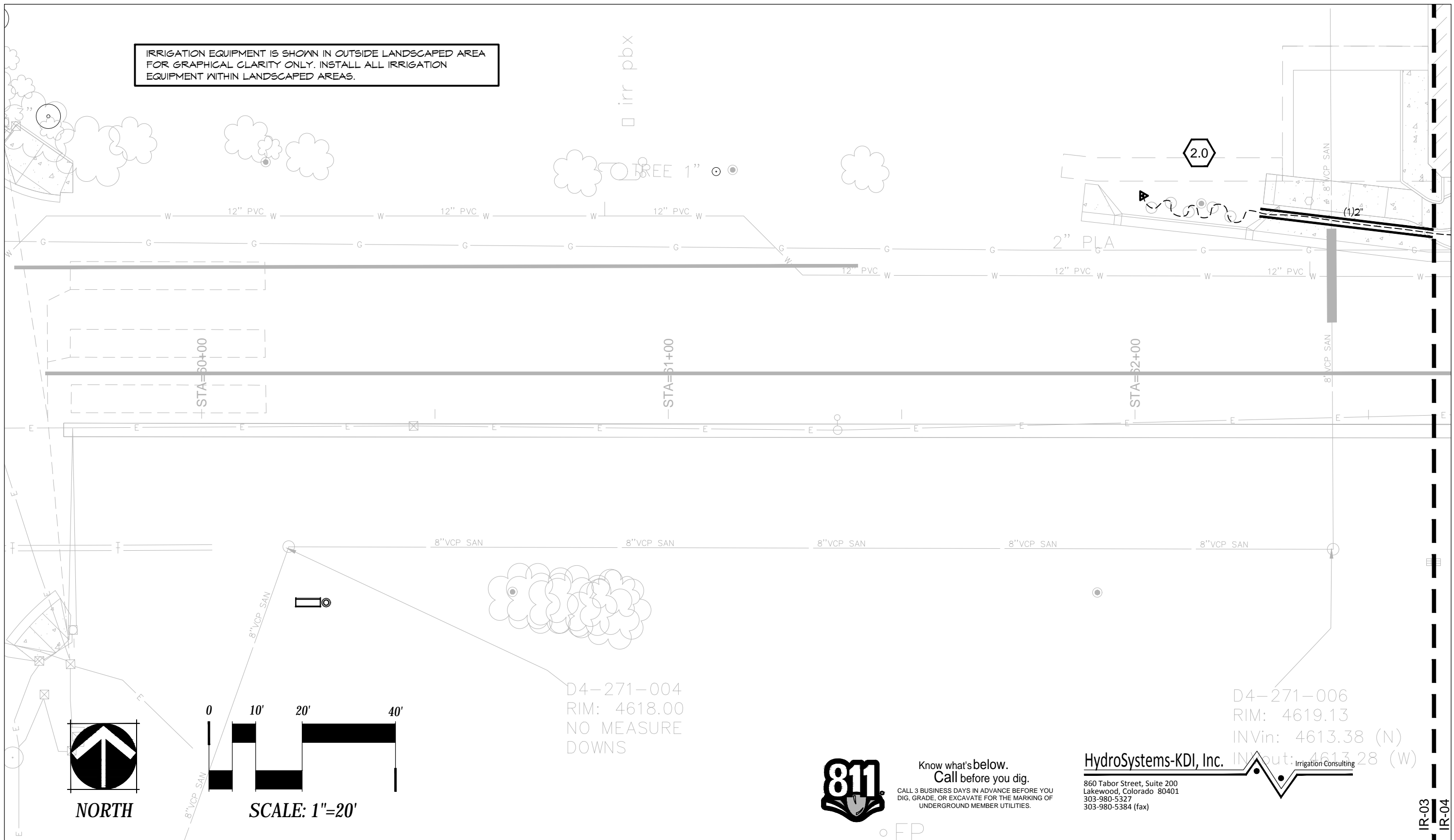


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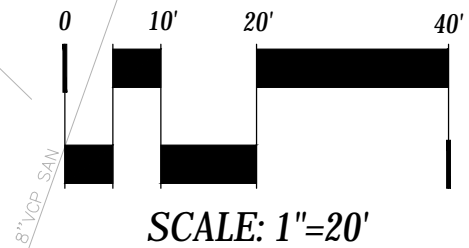
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 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)

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| Print Date: August 21, 2015. | | Sheet Revisions | Colorado Department of Transportation | As Constructed | Irrigation Schedule | | Project No./Code |
| File Name: North Avenue | | Date: Comments Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | No Revisions: | | | TCSP M555-029 |
| Horiz. Scale: Vert. Scale: NA | | | | Revised: | Designer: Hugo Ochoa | Structure Numbers | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Void: | Detailer: Ken DiPaolo | | |
| | | | | | Sheet Subset: | Subset Sheets: IR-02 | Sheet Number 220 |

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NORTH



D4-271-004
RIM: 4618.00
NO MEASURE
DOWNS

D4-271-006
RIM: 4619.13
INVin: 4613.38 (N)
INVout: 4613.28 (W)



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| File Name: North Avenue |
| Horiz. Scale: Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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Region 3 RBB

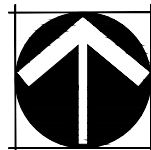
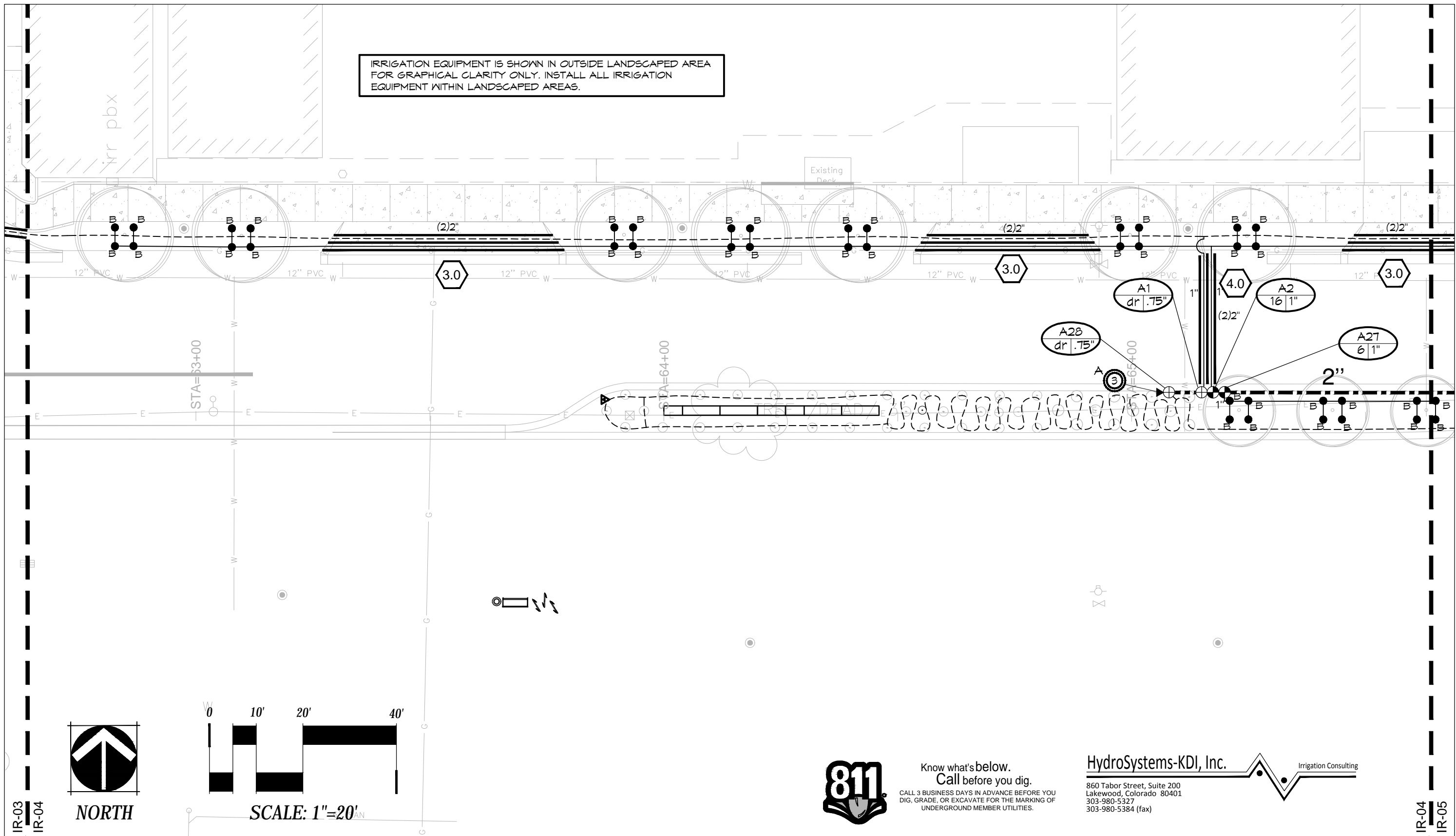
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| Irrigation Plans | |
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| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-03 |

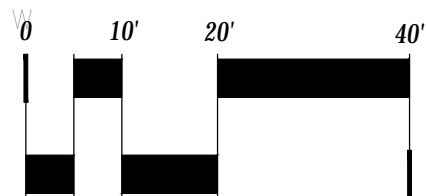
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 221 |

IR-03
IR-04

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NORTH



SCALE: 1"=20'




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| Print Date: August 21, 2015. | |
| File Name: North Avenue | |
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| Unit Information: City of GJ Unit Leader Initials: DPJ | |

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| Revised: |
| Void: |

| Irrigation Plans | |
|-----------------------|----------------------|
| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-04 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 222 |

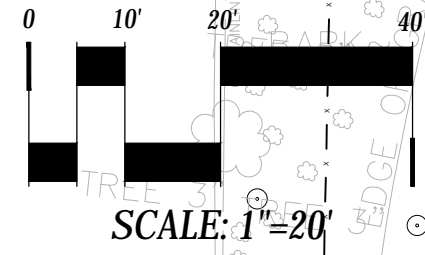
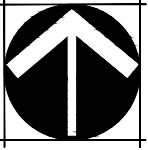
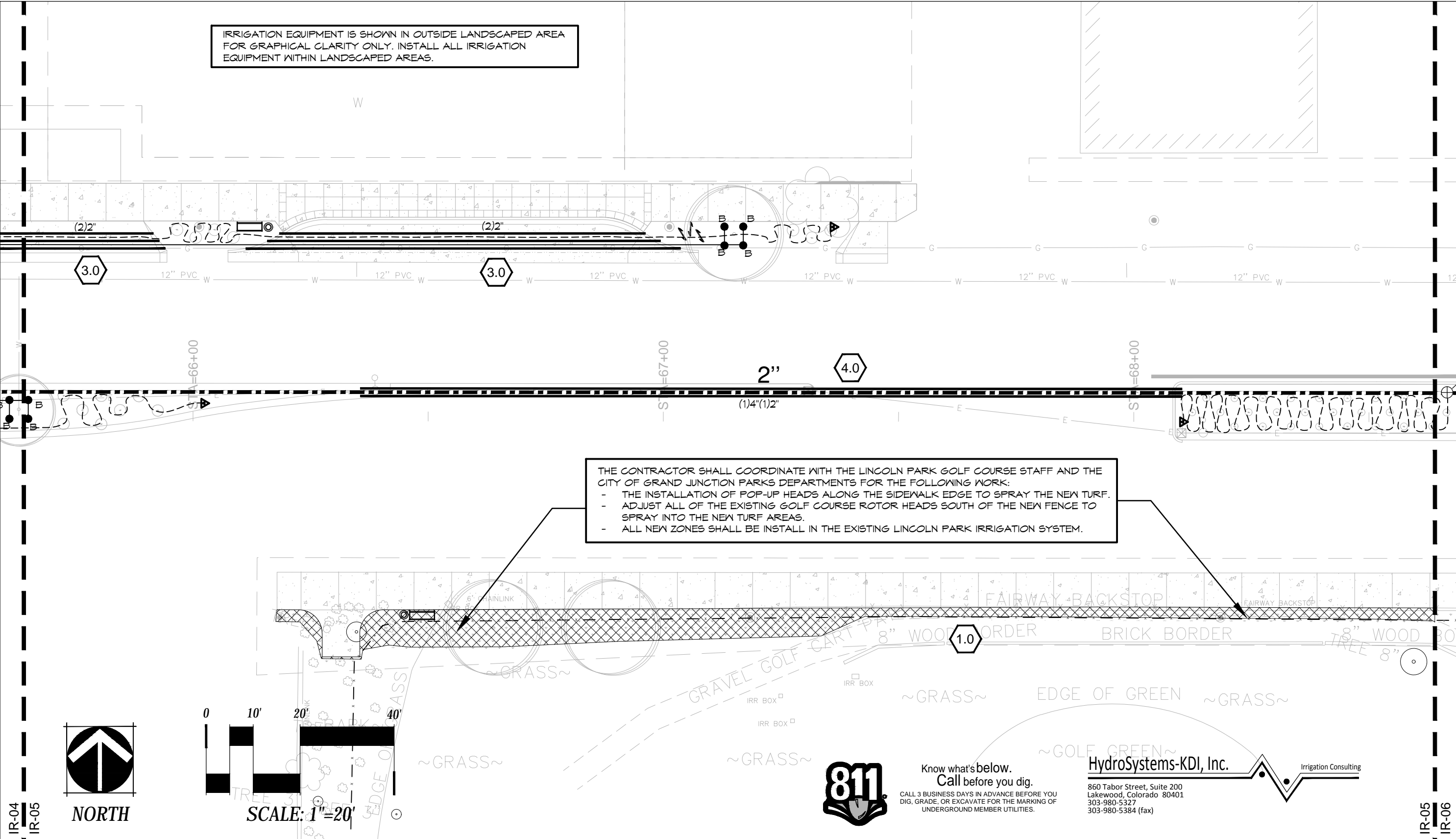
IR-03
IR-04

IR-04
IR-05

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THE CONTRACTOR SHALL COORDINATE WITH THE LINCOLN PARK GOLF COURSE STAFF AND THE CITY OF GRAND JUNCTION PARKS DEPARTMENTS FOR THE FOLLOWING WORK:

- THE INSTALLATION OF POP-UP HEADS ALONG THE SIDEWALK EDGE TO SPRAY THE NEW TURF.
- ADJUST ALL OF THE EXISTING GOLF COURSE ROTOR HEADS SOUTH OF THE NEW FENCE TO SPRAY INTO THE NEW TURF AREAS.
- ALL NEW ZONES SHALL BE INSTALL IN THE EXISTING LINCOLN PARK IRRIGATION SYSTEM.



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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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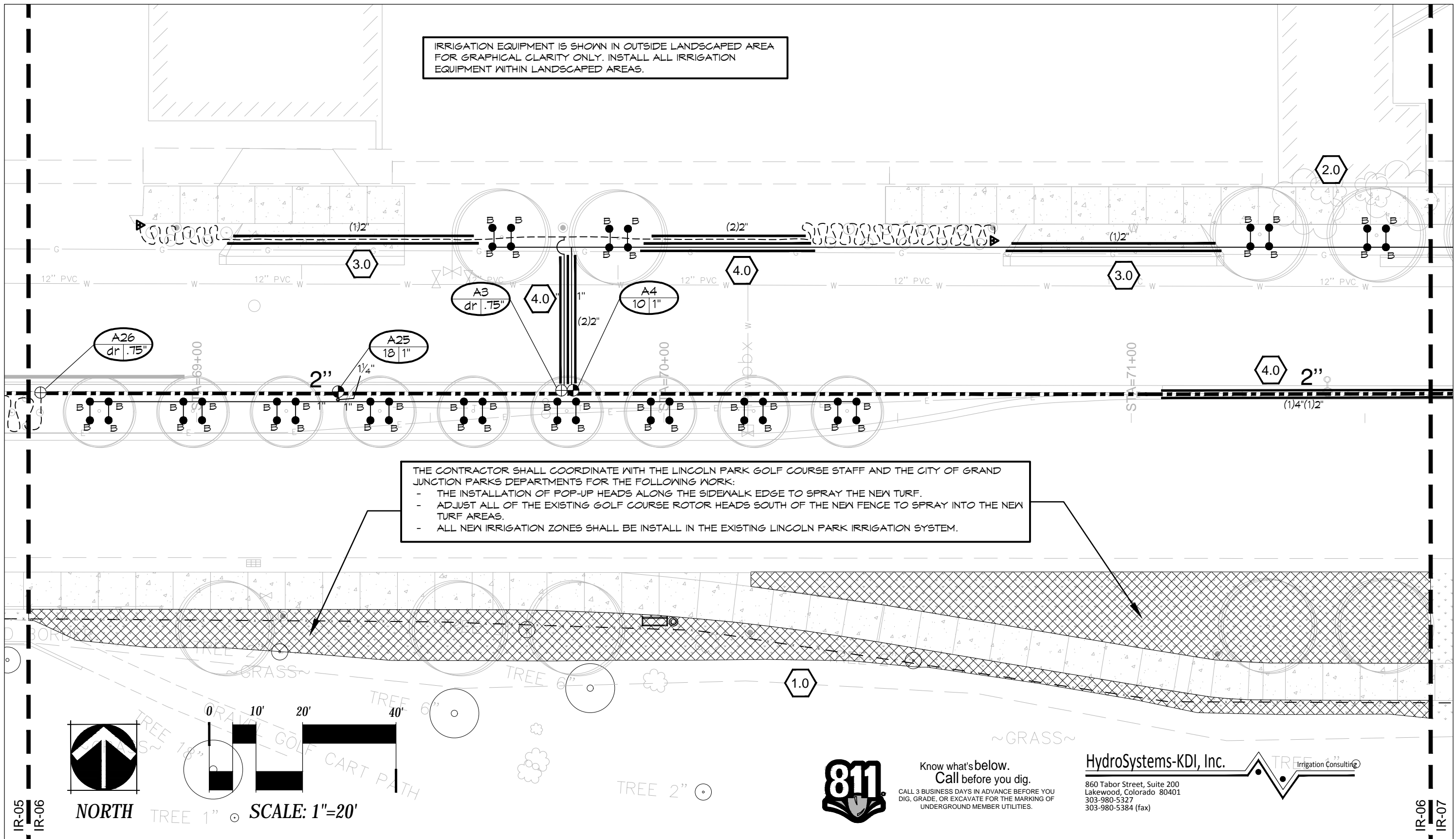
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| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-05 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 223 |

IR-04
IR-05

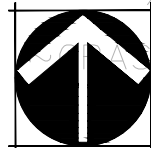
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IR-06

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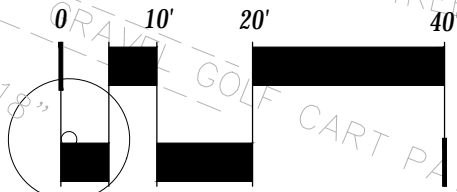


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NORTH



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| Horiz. Scale: Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| Irrigation Plans | |
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| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-06 |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 224 |

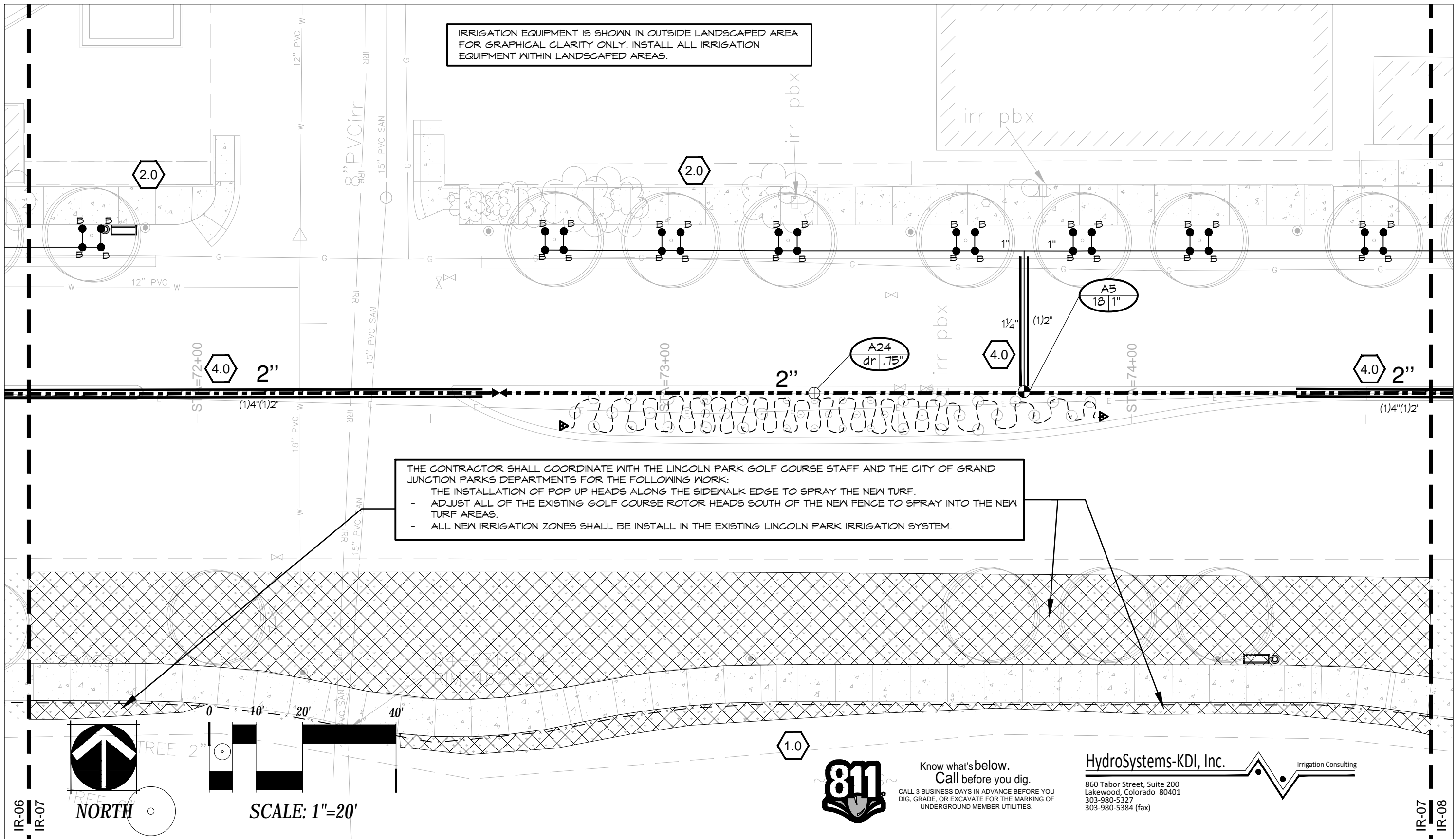
IR-05
IR-06

IR-06
IR-07

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File Name: North Avenue
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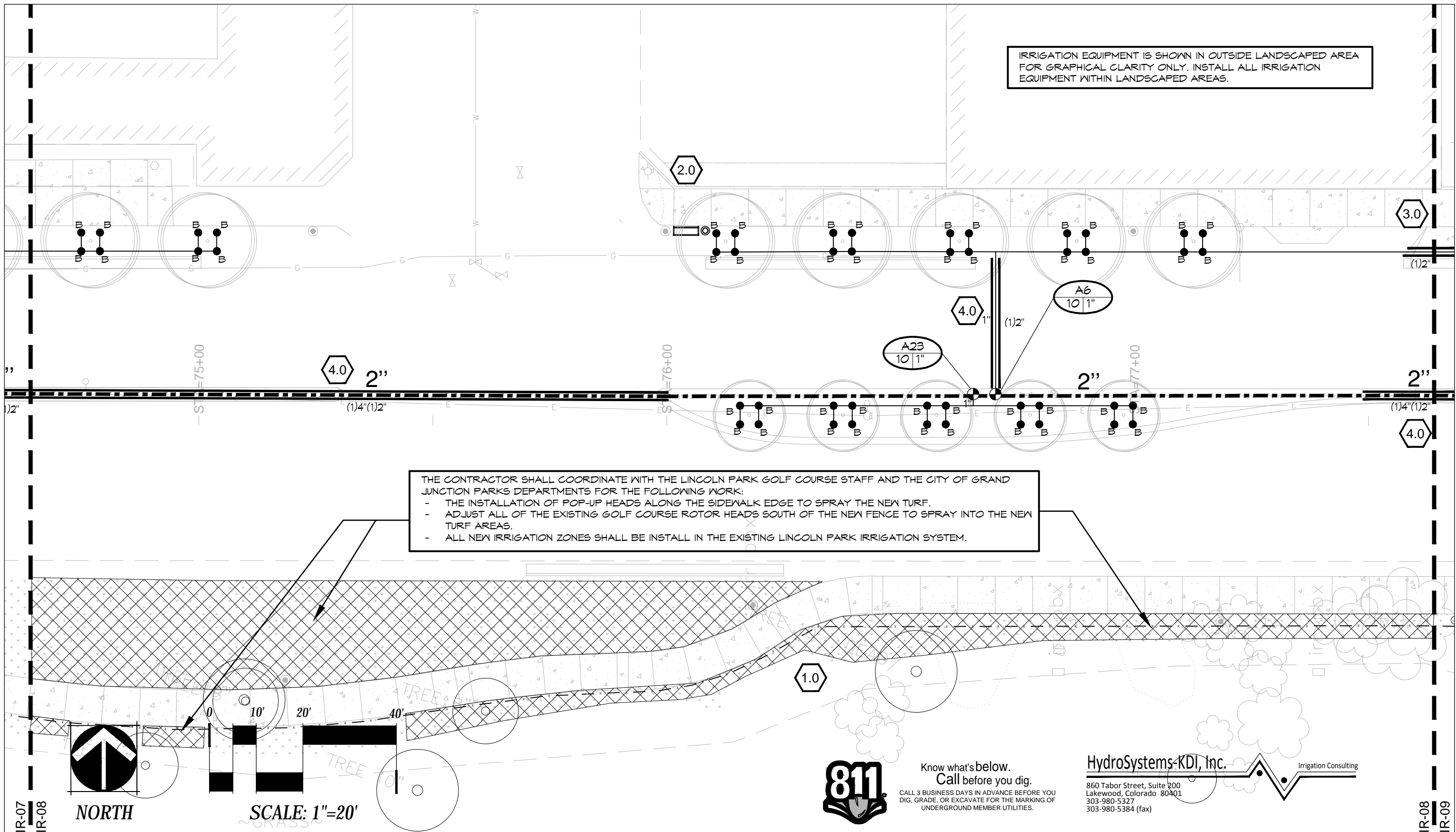
Irrigation Plans
 Designer: Hugo Ochoa
 Detailer: Ken DiPaolo
 Sheet Subset:
 Structure Numbers
 Subset Sheets: IR-07

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 225

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IR-06
 IR-07

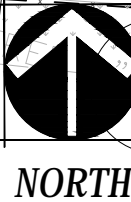
IR-07
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SCALE: 1"=20'

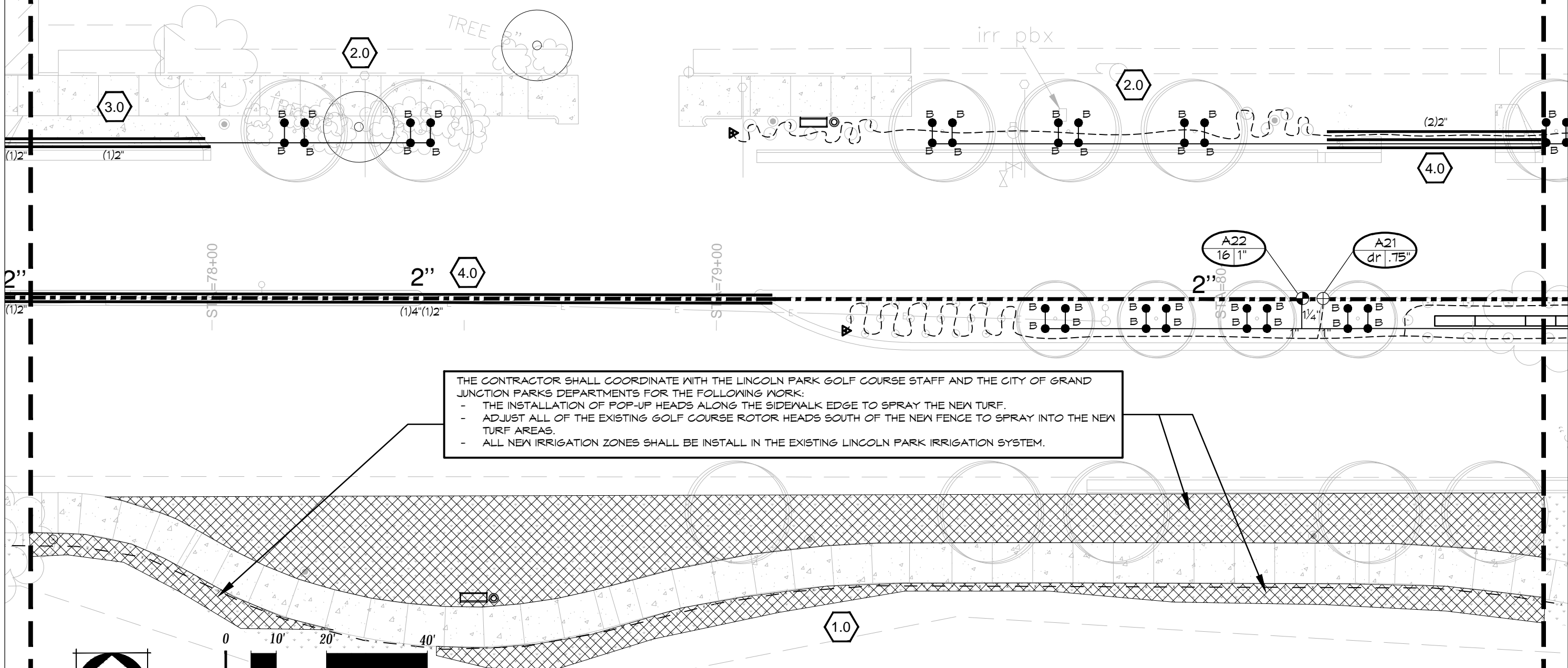


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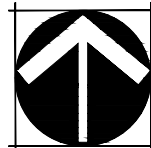
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| Print Date: August 21, 2015. | | Sheet Revisions | | Colorado Department of Transportation | | As Constructed | | Irrigation Plans | | Project No./Code | |
| File Name: North Avenue | | Date: | Comments | Init. | Region 3 | | No Revisions: | | | TCSP M555-029 | |
| Horiz. Scale: Vert. Scale: NA | | | | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | Revised: | Designer: Hugo Ochoa | Structure Numbers | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | RBB | | Void: | Detailer: Ken DiPaolo | | Sheet Number 226 | |
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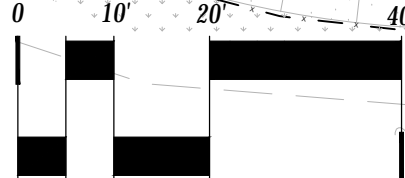


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| Print Date: August 21, 2015. |
| File Name: North Avenue |
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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| Revised: |
| Void: |

| Irrigation Plans | |
|-----------------------|----------------------|
| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-09 |

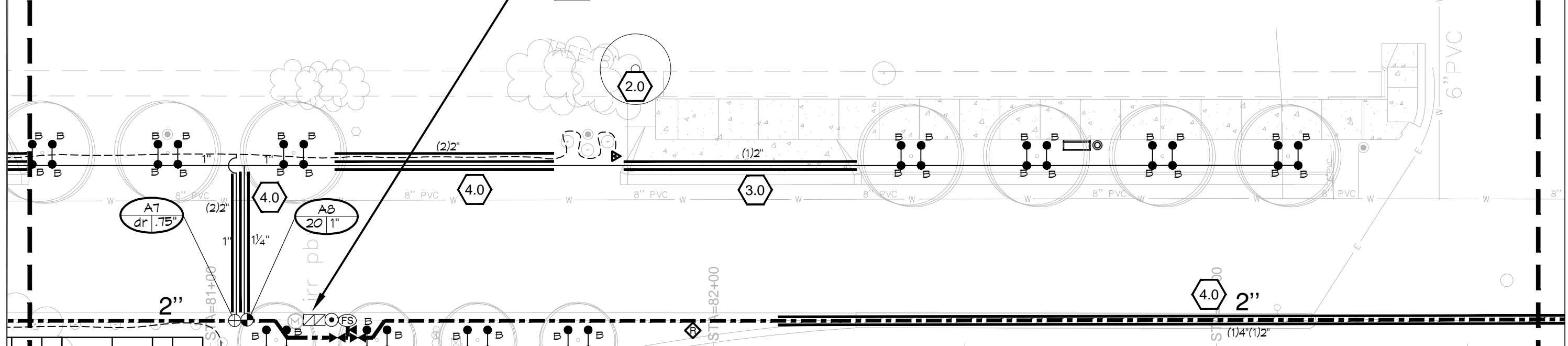
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| TCSP M555-029 |
| 19365 |
| Sheet Number 227 |

IR-08
IR-09

IR-09
IR-10

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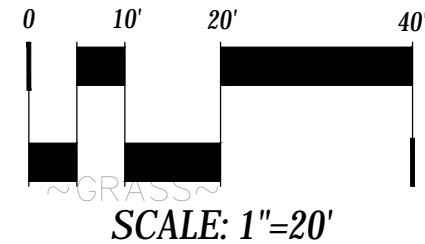
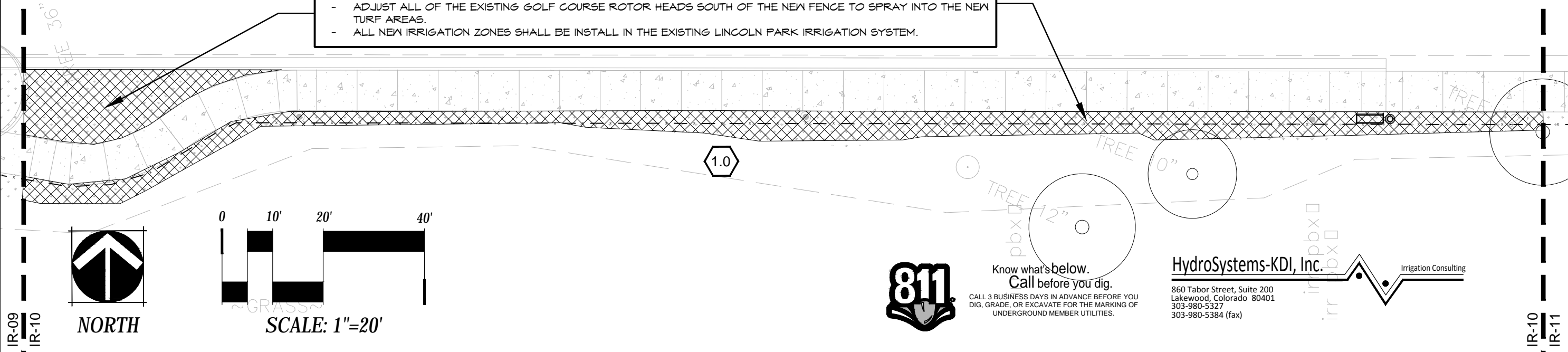
B - SEE SHEET IR-02 - POINT OF CONNECTION NOTE



A - SEE SHEET IR-02 - CONTROLLER NOTE

THE CONTRACTOR SHALL COORDINATE WITH THE LINCOLN PARK GOLF COURSE STAFF AND THE CITY OF GRAND JUNCTION PARKS DEPARTMENTS FOR THE FOLLOWING WORK:

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Unit Information: City of GJ Unit Leader Initials: DPJ

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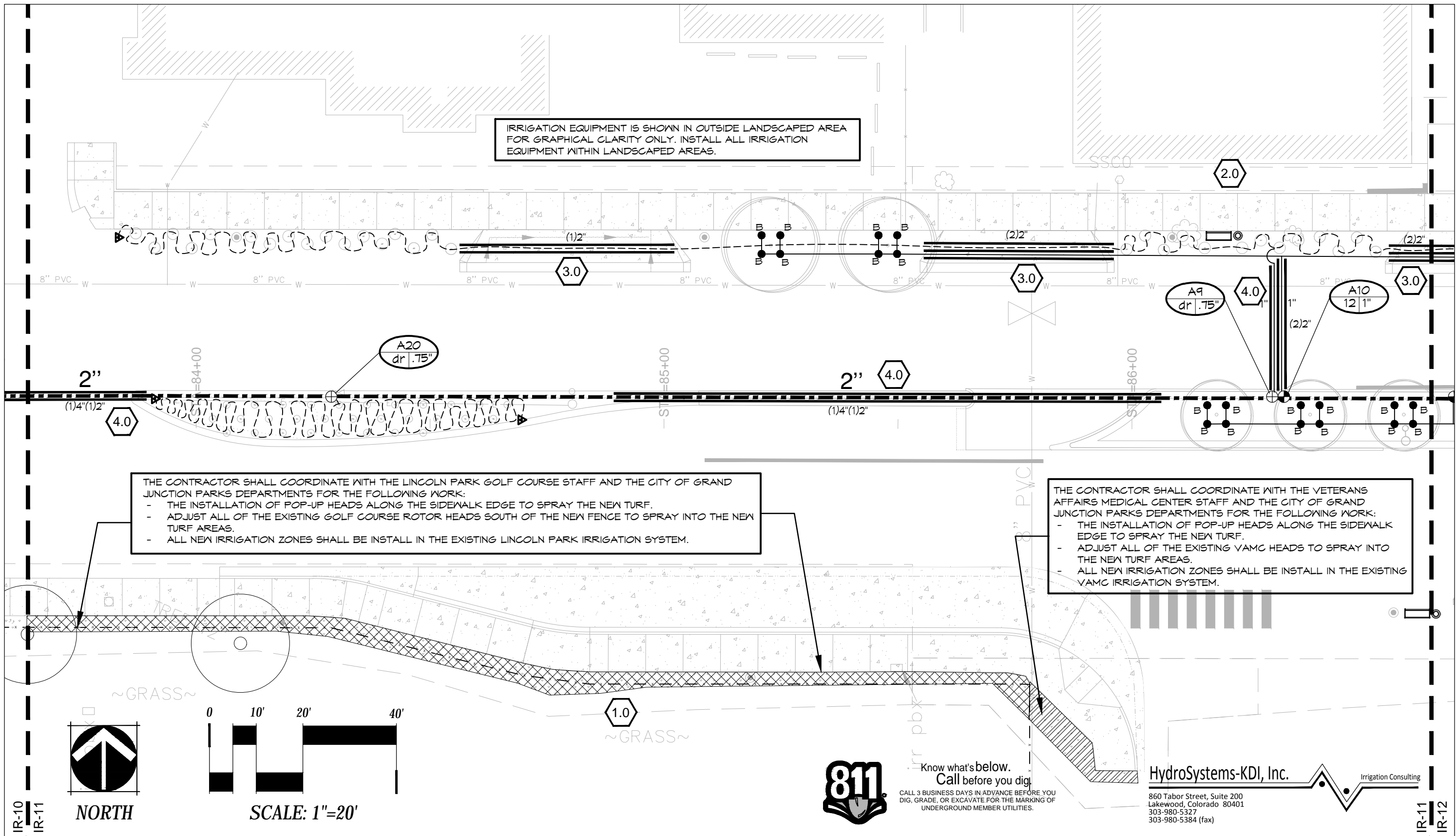
As Constructed
No Revisions:
Revised:
Void:

Irrigation Plans
Designer: Hugo Ochoa
Detailer: Ken DiPaolo
Sheet Subset:
Structure Numbers
Subset Sheets: IR-10

Project No./Code
TCSP M555-029
19365
Sheet Number 228

IR-09
IR-10

IR-10
IR-11

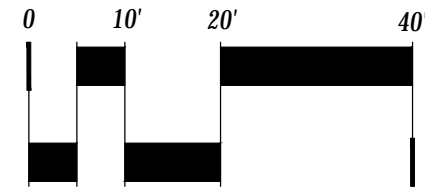
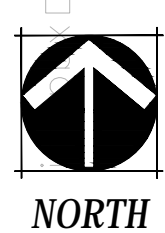


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THE CONTRACTOR SHALL COORDINATE WITH THE VETERANS AFFAIRS MEDICAL CENTER STAFF AND THE CITY OF GRAND JUNCTION PARKS DEPARTMENTS FOR THE FOLLOWING WORK:

- THE INSTALLATION OF POP-UP HEADS ALONG THE SIDEWALK EDGE TO SPRAY THE NEW TURF.
- ADJUST ALL OF THE EXISTING VAMC HEADS TO SPRAY INTO THE NEW TURF AREAS.
- ALL NEW IRRIGATION ZONES SHALL BE INSTALL IN THE EXISTING VAMC IRRIGATION SYSTEM.

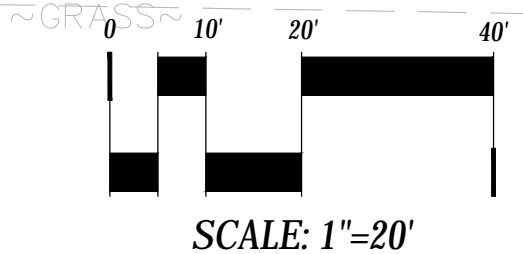
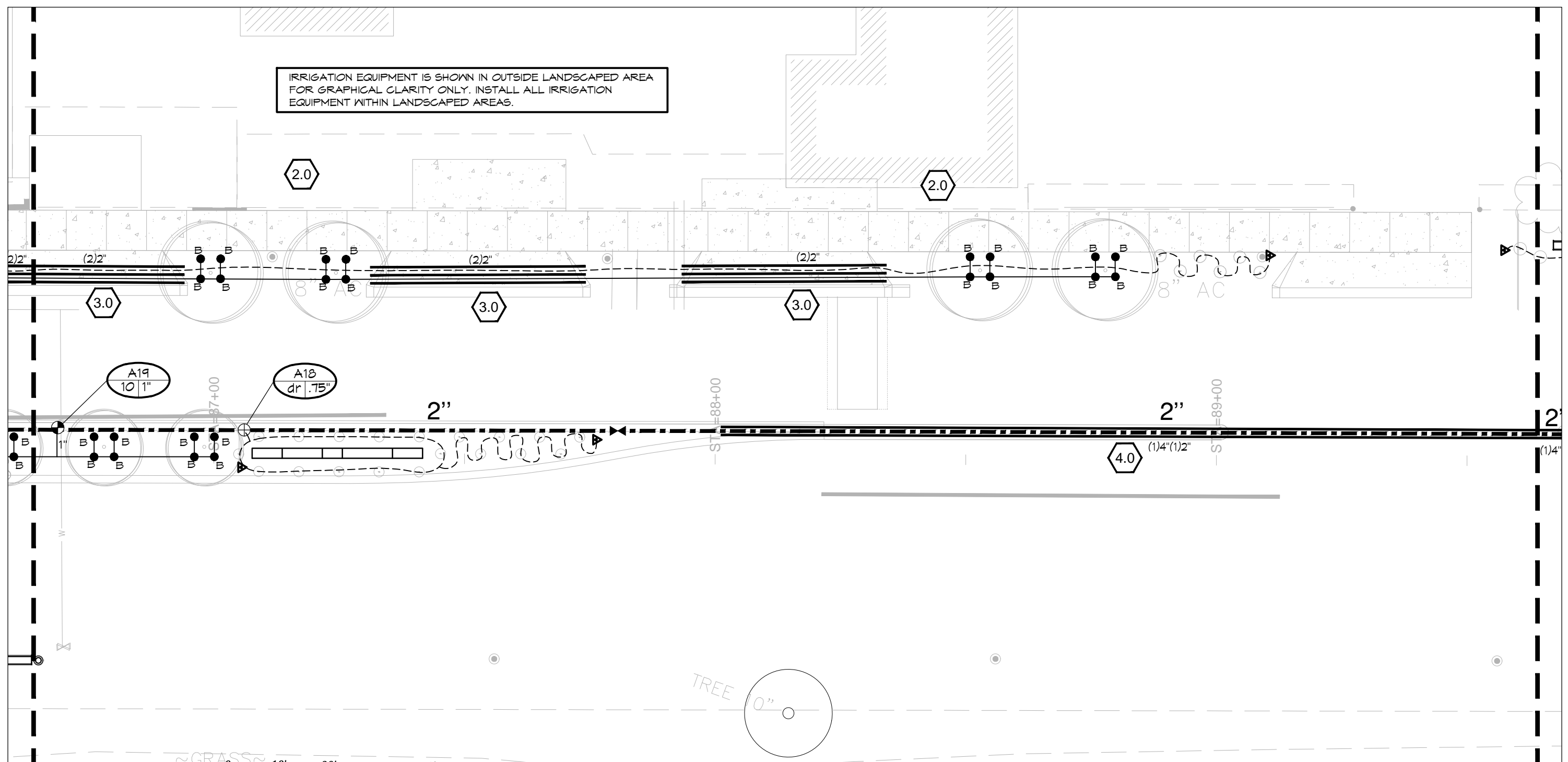


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| Print Date: August 21, 2015. | <table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | <p>Colorado Department of Transportation</p> <p>606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369</p> <p>Region 3 RBB</p> | <p>As Constructed</p> <p>No Revisions:</p> <p>Revised:</p> <p>Void:</p> | <p>Irrigation Plans</p> <p>Designer: Hugo Ochoa Detailer: Ken DiPaolo Sheet Subset:</p> <p>Structure Numbers Subset Sheets: IR-11</p> | | <p>Project No./Code</p> <p>TCSP M555-029</p> <p>19365</p> <p>Sheet Number 229</p> |
|--|--|-----------------|-------|--|-------|----------|-------|--|--|--|--|--|--|--|---|---|--|---|
| Sheet Revisions | | | | | | | | | | | | | | | | | | |
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| File Name: North Avenue | | | | | | | | | | | | | | | | | | |
| Horiz. Scale: Vert. Scale: NA | | | | | | | | | | | | | | | | | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | | | | | | | | | | | |

IRRIGATION EQUIPMENT IS SHOWN IN OUTSIDE LANDSCAPED AREA FOR GRAPHICAL CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPED AREAS.



Know what's below.
Call before you dig.
CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

~GRASS~
HydroSystems-KDI, Inc. Irrigation Consulting
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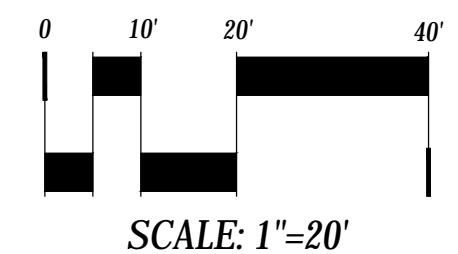
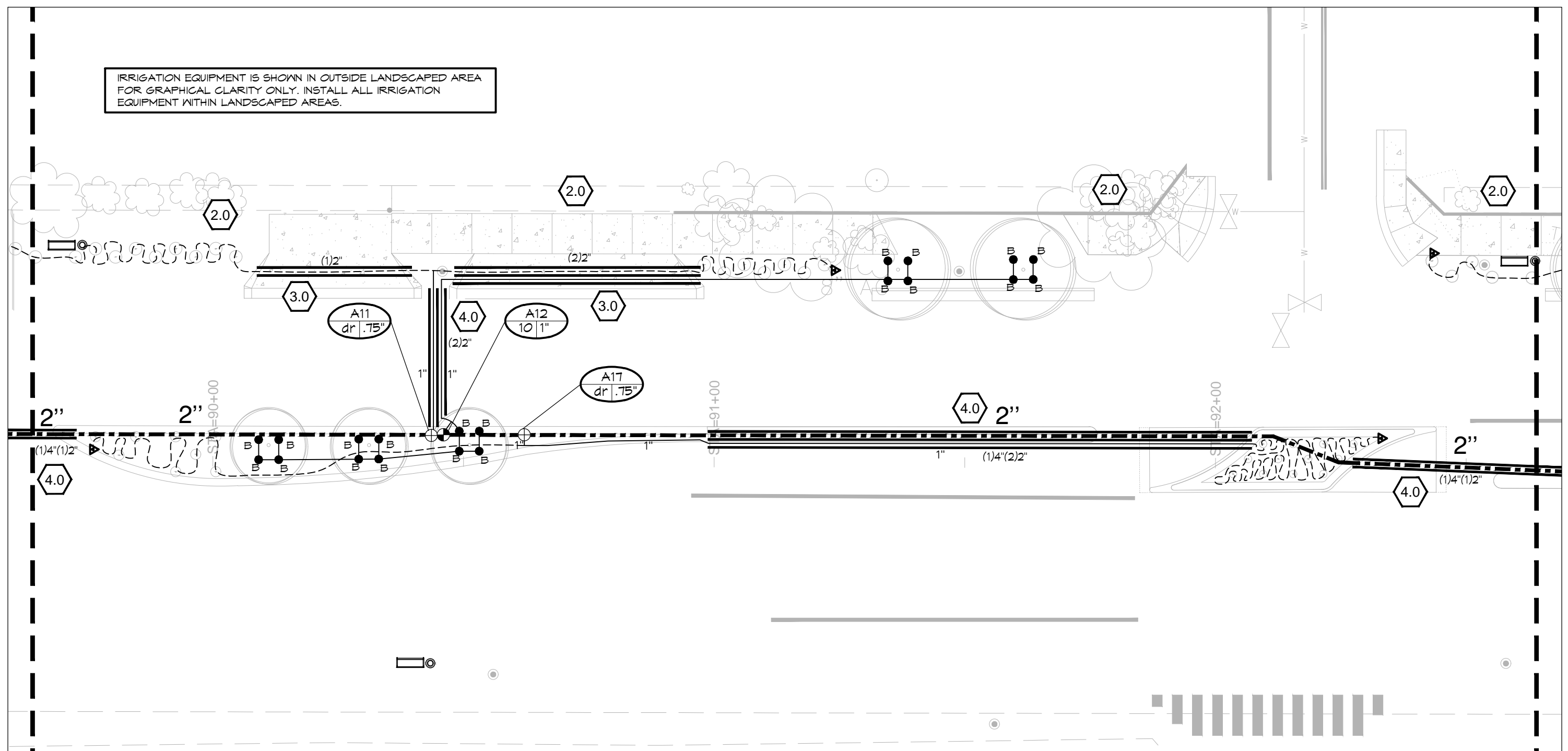
Print Date: August 21, 2015.
File Name: North Avenue
Horiz. Scale: Vert. Scale: NA
Unit Information: City of GJ Unit Leader Initials: DPJ

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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|----------------|-----------------------|----------------------|------------------|
| As Constructed | Irrigation Plans | | Project No./Code |
| No Revisions: | | | TCSP M555-029 |
| Revised: | Designer: Hugo Ochoa | Structure Numbers | 19365 |
| Void: | Detailer: Ken DiPaolo | | |
| | Sheet Subset: | Subset Sheets: IR-12 | Sheet Number 230 |

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| File Name: North Avenue |
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| Unit Information: City of GJ Unit Leader Initials: DPJ |

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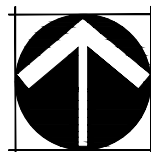
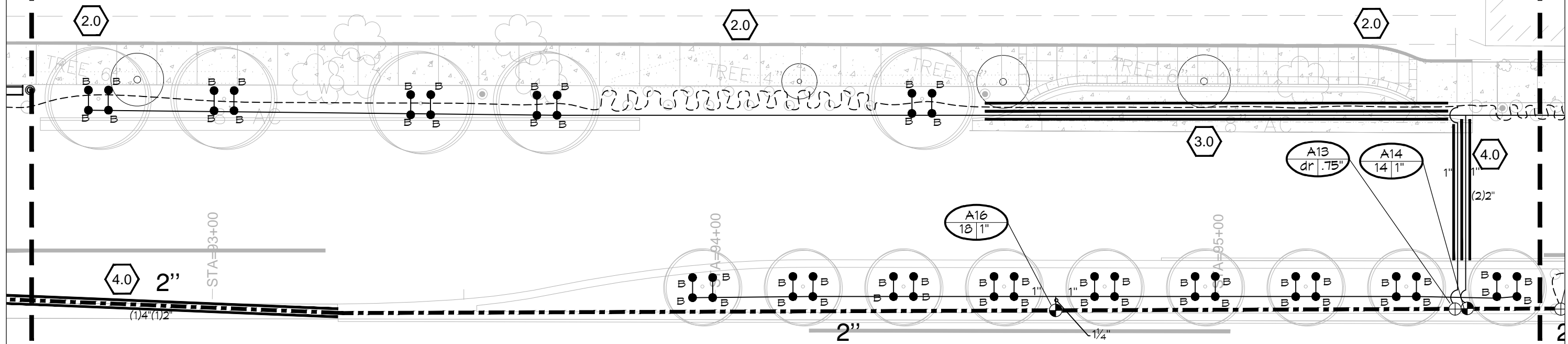
Region 3 RBB

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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

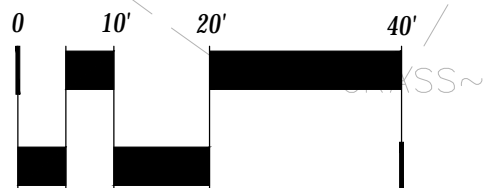
| Irrigation Plans | |
|-----------------------|----------------------|
| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-13 |

| |
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 231 |

IRRIGATION EQUIPMENT IS SHOWN IN OUTSIDE LANDSCAPED AREA FOR GRAPHICAL CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPED AREAS.



NORTH



SCALE: 1"=20'



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Print Date: August 21, 2015.

File Name: North Avenue

Horiz. Scale: Vert. Scale: NA

Unit Information: City of GJ Unit Leader Initials: DPJ

Sheet Revisions

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Region 3

RBB

As Constructed

No Revisions:

Revised:

Void:

Irrigation Plans

Designer: Hugo Ochoa

Detailer: Ken DiPaolo

Sheet Subset:

Structure Numbers

Subset Sheets: IR-14

Project No./Code

TCSP M555-029

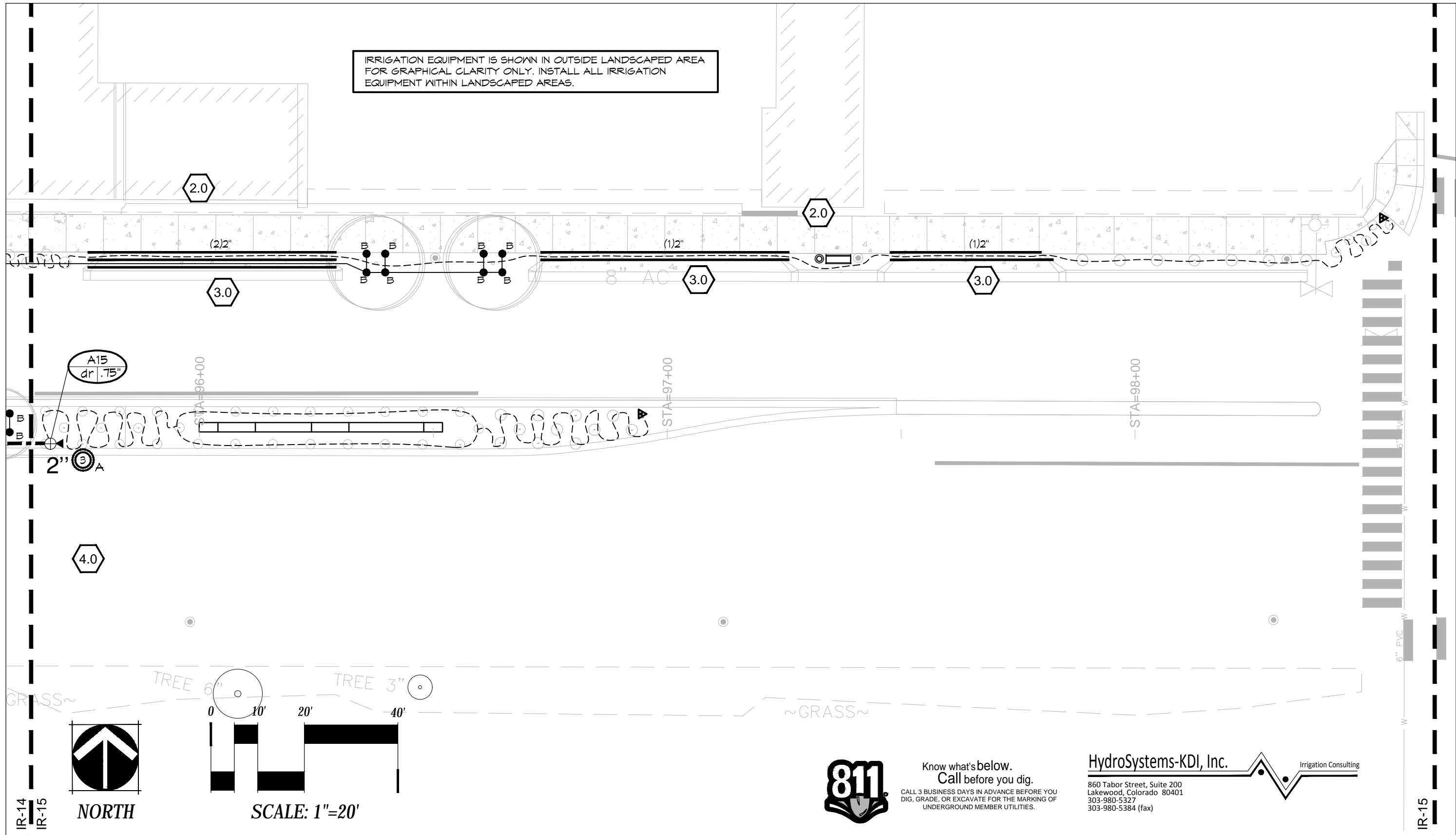
19365

Sheet Number 232

IR-13
IR-14

IR-14
IR-15

IRRIGATION EQUIPMENT IS SHOWN IN OUTSIDE LANDSCAPED AREA FOR GRAPHICAL CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPED AREAS.



Print Date: August 21, 2015.
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| Sheet Revisions | | |
|-----------------|----------|-------|
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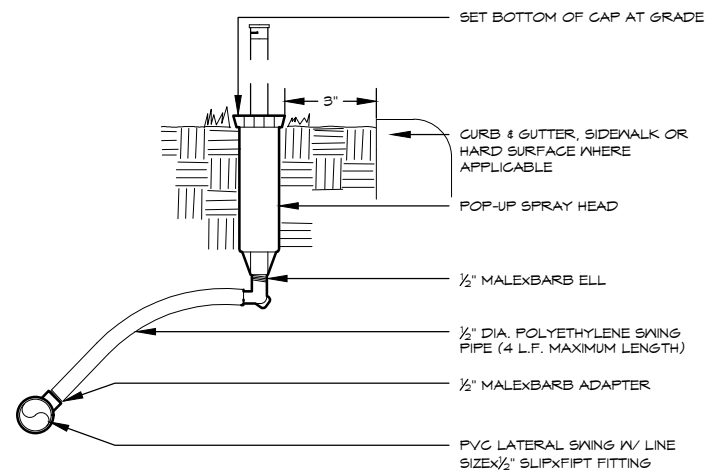
Irrigation Plans
 Designer: Hugo Ochoa
 Detailer: Ken DiPaolo
 Sheet Subset:
 Structure Numbers
 Subset Sheets: IR-15

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 233



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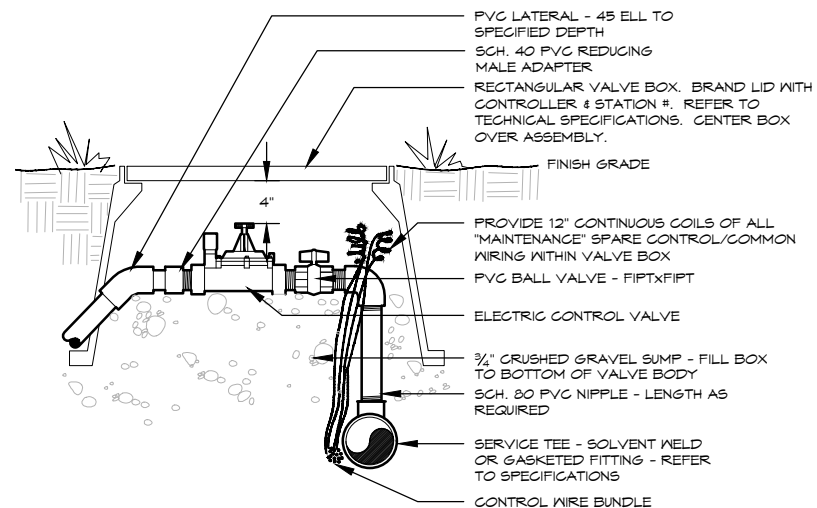
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 303-980-5327
 303-980-5384 (fax)



- NOTE:
- SET HEAD PERPENDICULAR TO FINISH GRADE.
 - APPLY TEFLON TAPE TO MALE PVC THREADED FITTINGS.
 - DOUBLE CLAMP 1/2" & 2" DIAMETER FITTINGS.

POP-UP SPRAY HEAD

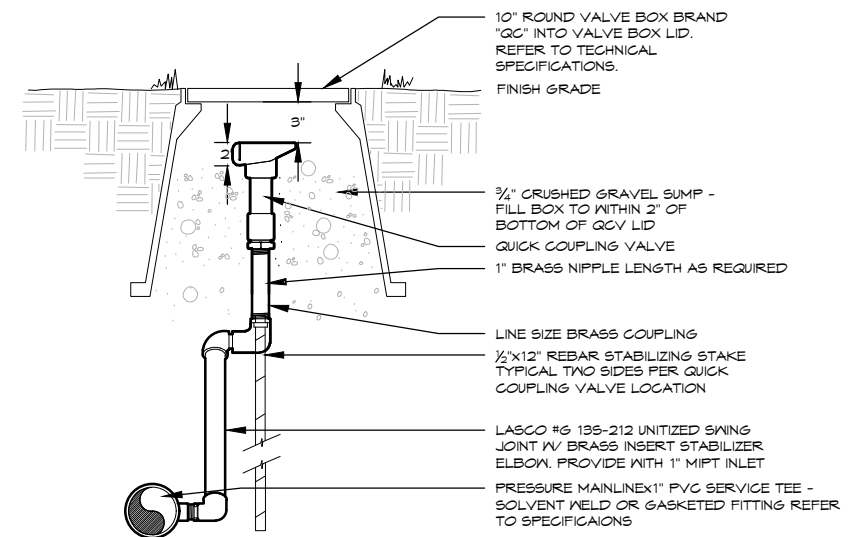
1



- NOTE: DIAMETERS OF BALL VALVES, PVC FITTINGS AND NIPPLES SHALL EQUAL ELECTRIC CONTROL VALVE DIAMETER. VALVE BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT SIDEWALKS AND HARD SURFACES WHERE APPLICABLE. APPLY TEFLON TAPE TO ALL MALE THREADED FITTINGS AND THREADED NIPPLES.

ELECTRIC CONTROL VALVE

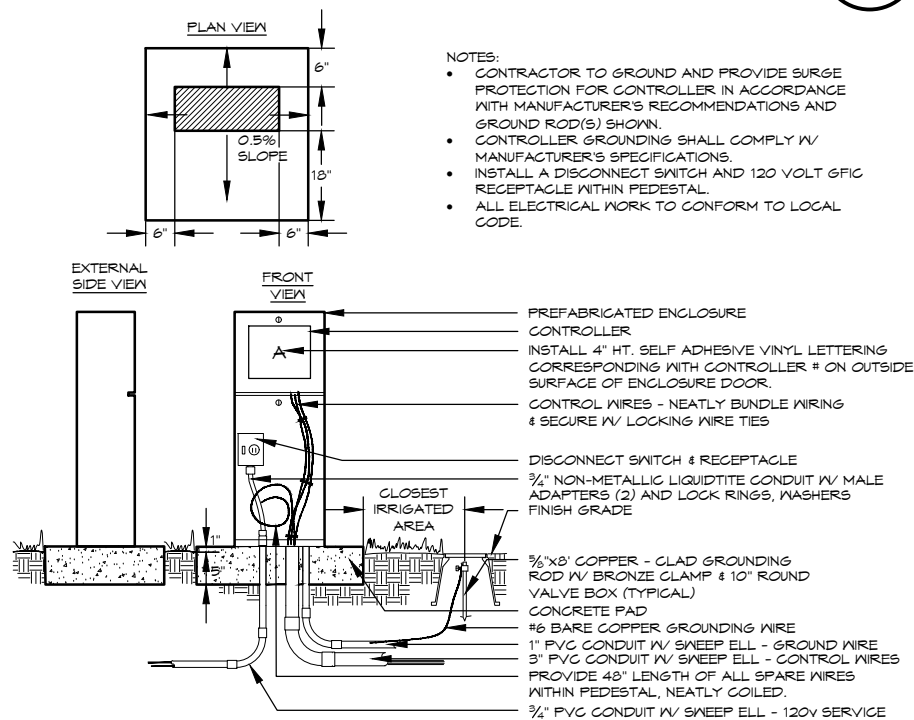
2



APPLY TEFLON TAPE TO ALL THREADED NIPPLES

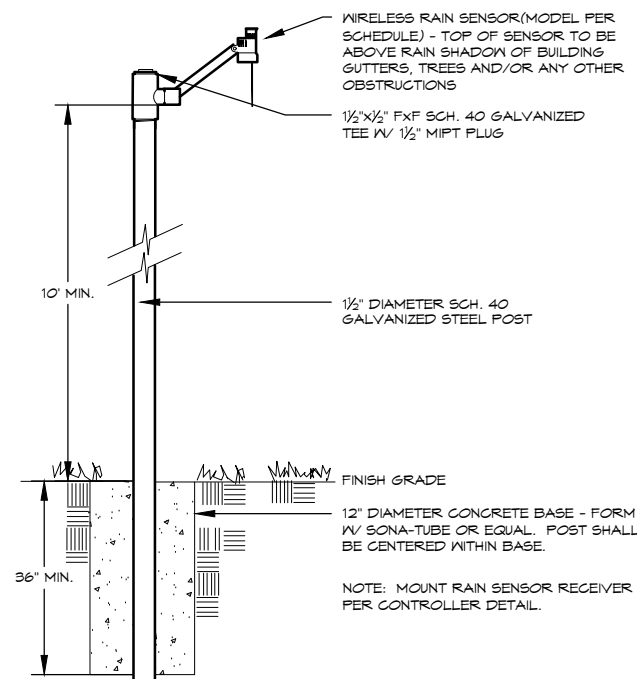
QUICK COUPLING VALVE

3



CONTROLLER - PEDESTAL

4



RAIN SENSOR

5

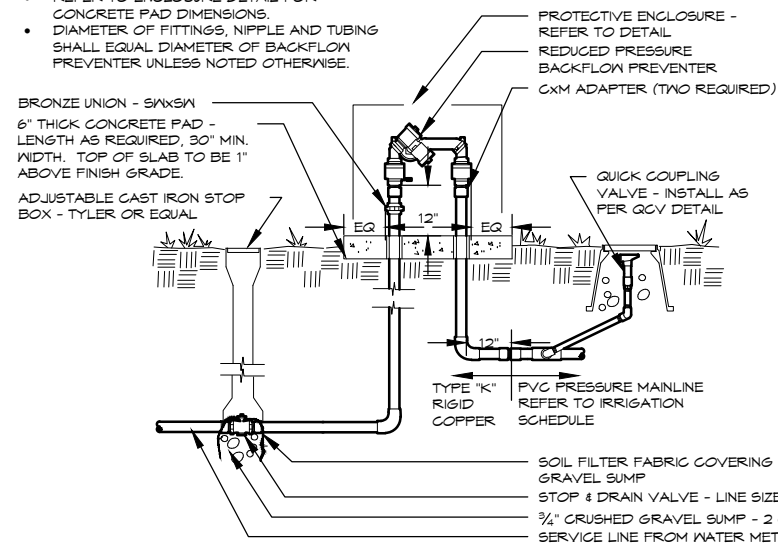


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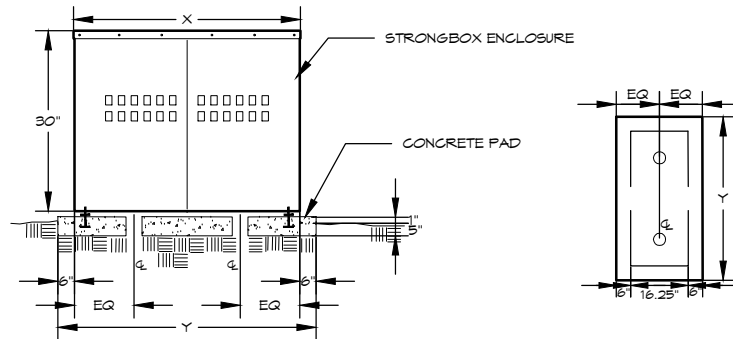
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| File Name: North Avenue | Date: | Comments | Init. | | No Revisions: | | | TCSP M555-029 |
| Horiz. Scale: Vert. Scale: NA | | | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | Revised: | Designer: Hugo Ochoa | Structure Numbers | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | Void: | Detailer: Ken DiPaolo | | |
| | | | | | | Sheet Subset: | Subset Sheets: IR-16 | Sheet Number 234 |

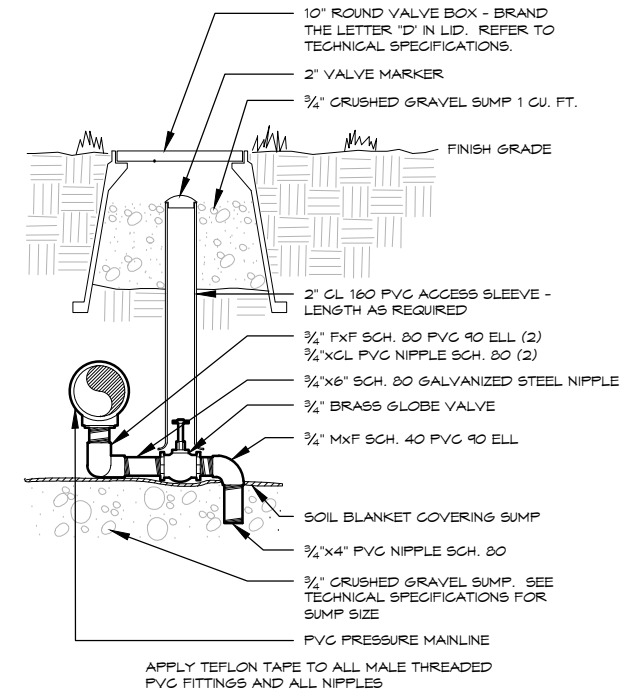
- NOTE:
- CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER. REFER TO ENCLOSURE DETAIL FOR CONCRETE PAD DIMENSIONS.
 - DIAMETER OF FITTINGS, NIPPLE AND TUBING SHALL EQUAL DIAMETER OF BACKFLOW PREVENTER UNLESS NOTED OTHERWISE.



| BFP MODEL/SIZE | ENCLOSURE MODEL | X | Y |
|-------------------------|-----------------|-----|-----|
| FEBCO 825Y 3/4" & 1" | SBBC-30AL | 30" | 42" |
| FEBCO 825Y 1 1/2" & 2" | SBBC-45AL | 45" | 57" |
| FEBCO 825YA 3/4" & 1" | SBBC-15AL | 15" | 27" |
| FEBCO 825YA 1 1/2" & 2" | SBBC-30AL | 30" | 42" |



- NOTES:
- PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER DIAMETER.
 - TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE.
 - INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE OWNER WITH KEYPAD LOCK FOR ENCLOSURE.



BACKFLOW PREVENTER

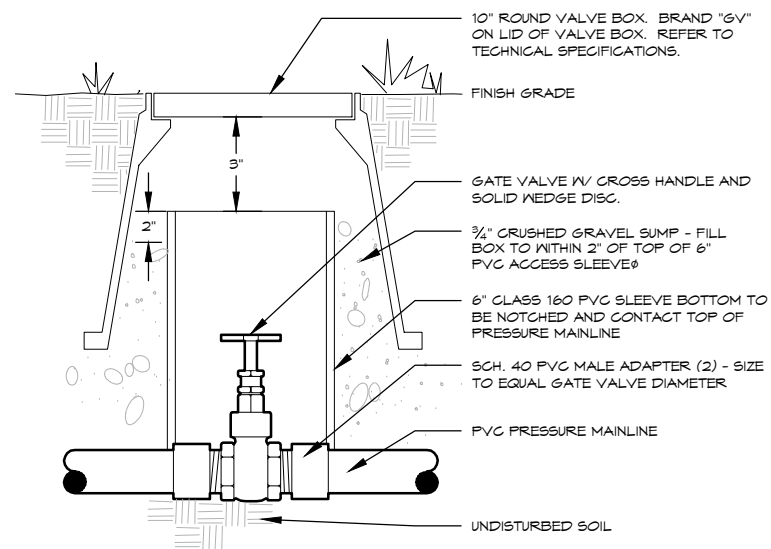
6

BACKFLOW ENCLOSURE

7

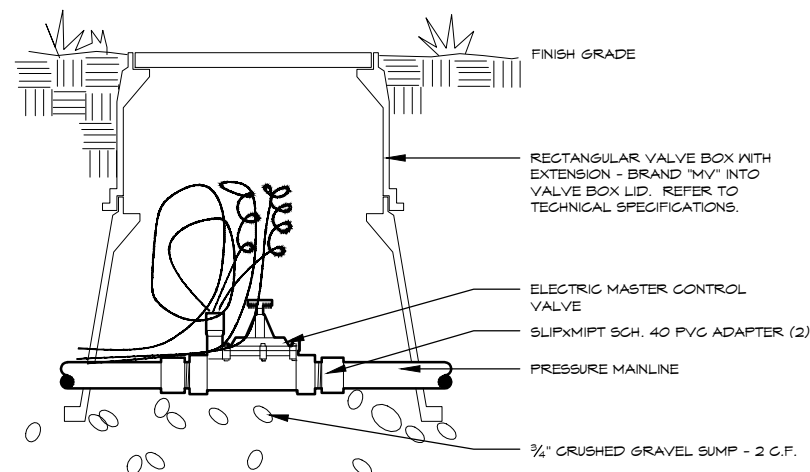
MANUAL DRAIN VALVE

8



GATE VALVE

9



MASTER VALVE

10



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Unit Information: City of GJ Unit Leader Initials: DPJ

Sheet Revisions

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Colorado Department of Transportation



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Grand Junction, CO, 81501
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Region 3

RBB

As Constructed

No Revisions:

Revised:

Void:

Irrigation Details

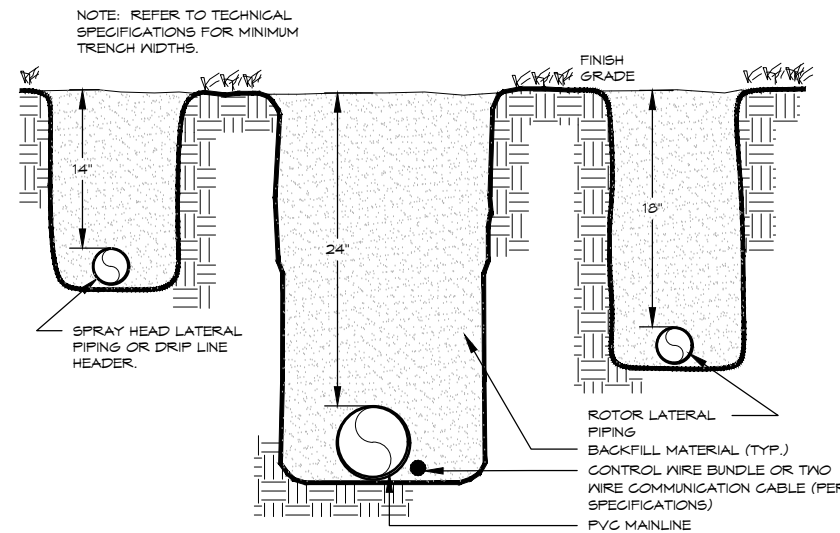
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|-----------------------|----------------------|
| Designer: Hugo Ochoa | Structure Numbers |
| Detailer: Ken DiPaolo | |
| Sheet Subset: | Subset Sheets: IR-17 |

Project No./Code

TCSP M555-029

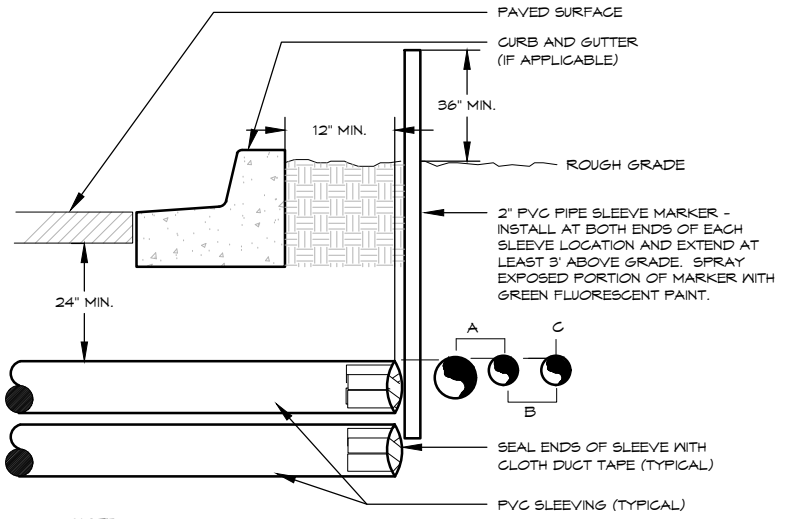
19365

Sheet Number 235



TRENCH

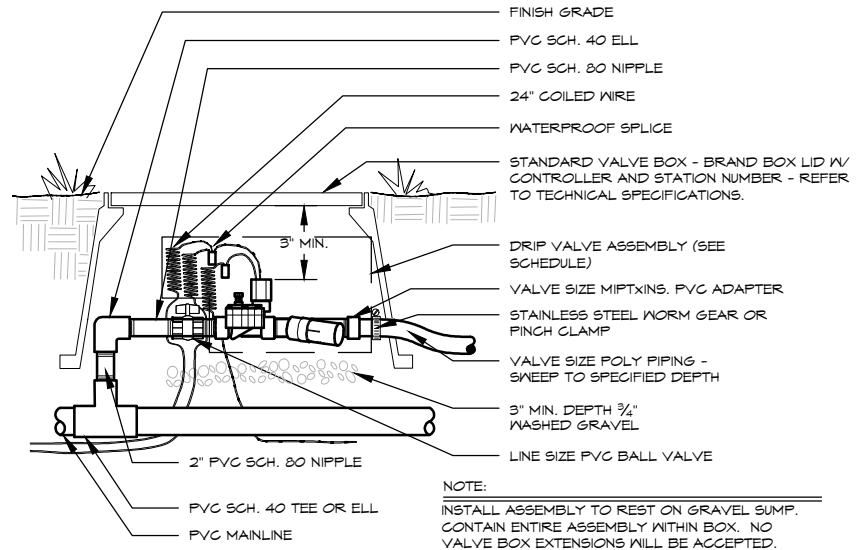
11



- NOTE:
- ALL SLEEVING TO BE CLASS 160 BE PVC, SIZE AS NOTED.
 - INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.
 - CONTRACTOR TO COORDINATE WITH FLATWORK INSTALLER TO BRAND A "V" IN SIDEWALK OR CURB AT BOTH ENDS OF SLEEVE CROSSING.

IRRIGATION SLEEVING

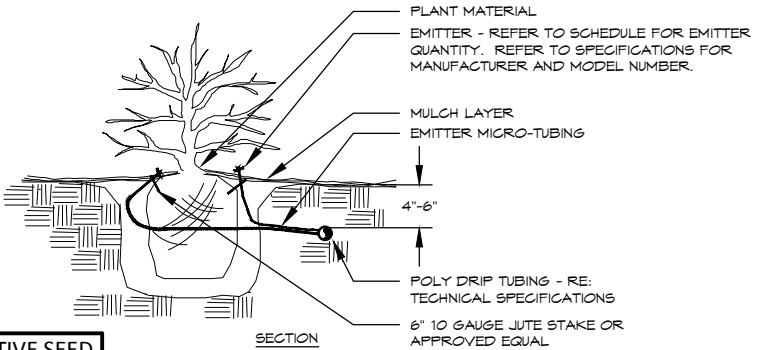
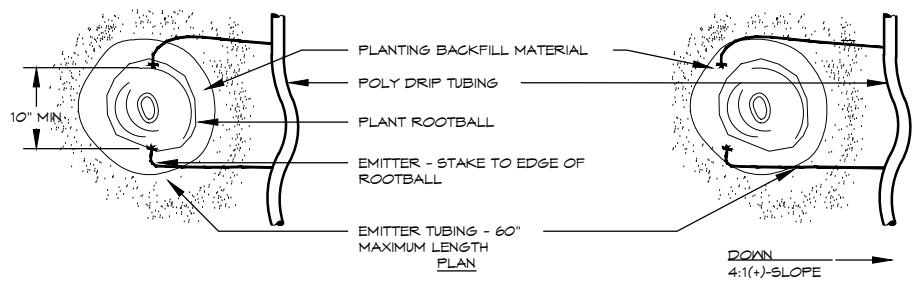
12



- NOTE:
- INSTALL ASSEMBLY TO REST ON GRAVEL SUMP. CONTAIN ENTIRE ASSEMBLY WITHIN BOX. NO VALVE BOX EXTENSIONS WILL BE ACCEPTED. PROVIDE 3"-4" CLEARANCE BETWEEN TOP OF CONTROL VALVE SOLENOID AND BOTTOM OF VALVE BOX LID. TOP OF VALVE BOX TO BE FLUSH WITH FINISH GRADE. VALVE BOX SHALL NOT REST ON DRIP TUBING.

DRIP VALVE

14



- NOTES:
- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
 - EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
 - FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
 - IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
 - EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
 - DRIP VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
 - CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
 - SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS:
 - ** EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGES SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
 - ** EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
 - ** PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

| PLANT SIZE | EMITTER FLOW RATE | EMITTER QTY. AT MULCHED BED LOCATIONS | EMITTER QTY. AT NATIVE SEED LOCATIONS |
|------------------------|-------------------|---------------------------------------|---------------------------------------|
| 1 - 2 GALLON MATERIAL | 0.5 GPH | ONE EACH | ONE EACH |
| 5 GALLON MATERIAL | 0.5 GPH | TWO EACH | TWO EACH |
| 1 1/2" CALIPER TREE | 1.0 GPH | THREE EACH | FOUR EACH |
| 2" CALIPER TREE | 1.0 GPH | FOUR EACH | SIX EACH |
| 2 1/2" CALIPER TREE | 1.0 GPH | SIX EACH | EIGHT EACH |
| 3" CALIPER TREE | 1.0 GPH | EIGHT EACH | TEN EACH |
| 3 1/2" CALIPER TREE | 1.0 GPH | NINE EACH | ELEVEN EACH |
| 4" CALIPER TREE | 1.0 GPH | TEN EACH | TWELVE EACH |
| 6 FT. CONIFEROUS TREE | 1.0 GPH | FOUR EACH | SIX EACH |
| 8 FT. CONIFEROUS TREE | 1.0 GPH | SIX EACH | NINE EACH |
| 10 FT. CONIFEROUS TREE | 1.0 GPH | EIGHT EACH | TWELVE EACH |
| 12 FT. CONIFEROUS TREE | 1.0 GPH | TEN EACH | FOURTEEN EACH |

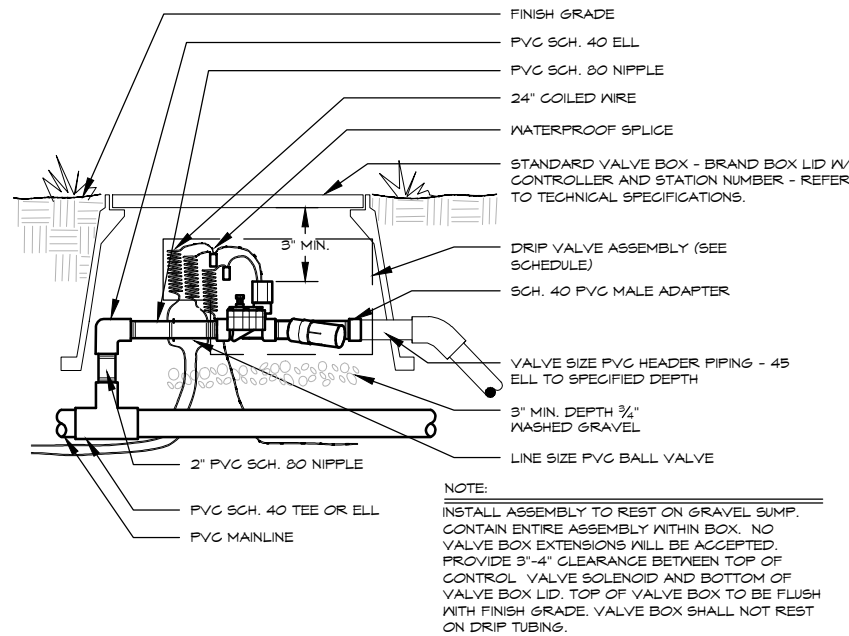
DRIP EMITTER BELOW GRADE

13

Know what's below. Call before you dig. CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

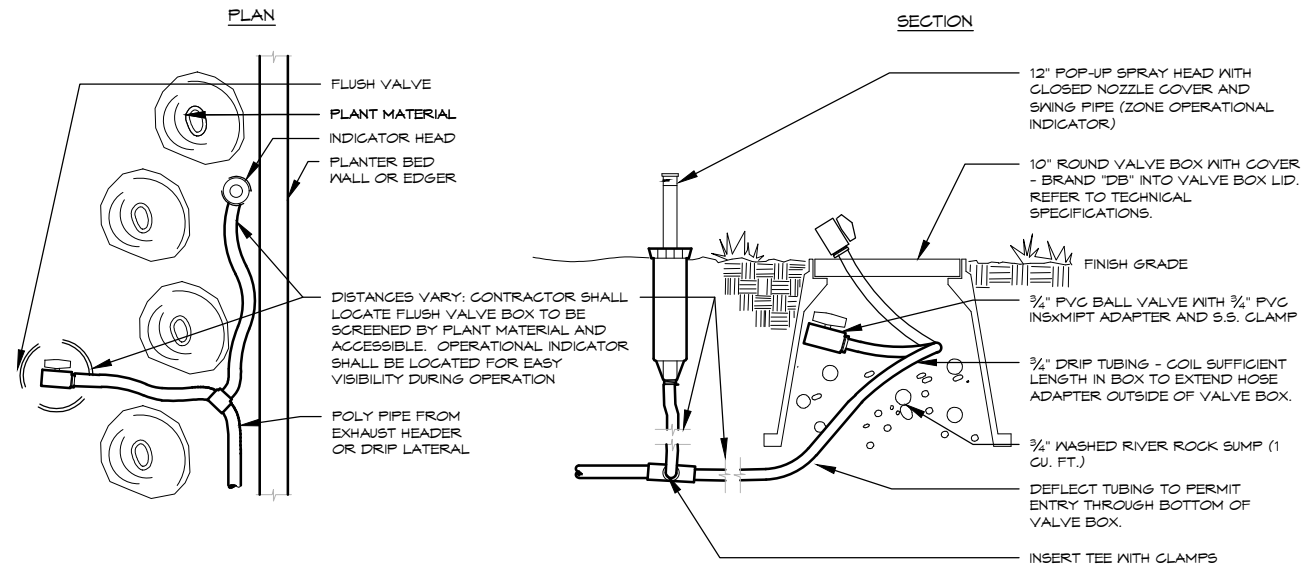
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| File Name: North Avenue | Date: | Comments | Init. | Region 3 | | No Revisions: | | TCSP M555-029 | | 19365 | |
| Horiz. Scale: Vert. Scale: NA | | | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | Revised: | | Designer: Hugo Ochoa | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | RBB | | Void: | | Detailer: Ken DiPaolo | | Sheet Number 236 | |
| | | | | | | | | Sheet Subset: | | Subset Sheets: IR-18 | |



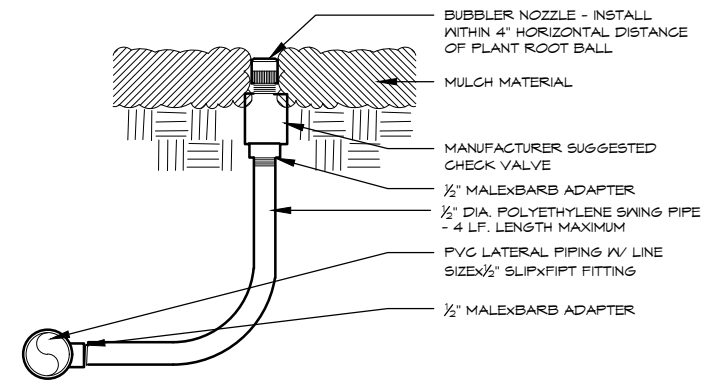
DRIP VALVE

15



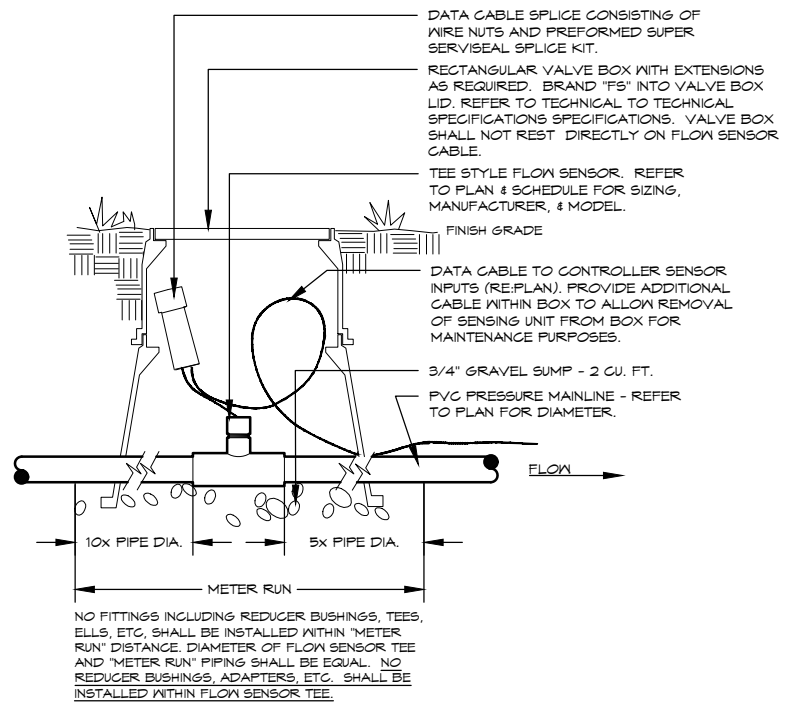
DRIP FLUSH VALVE WITH OPERATIONAL INDICATOR

16



BUBBLER

17



FLOW SENSOR

18

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| | | | | RBB | Void: | Sheet Subset: | Subset Sheets: IR-19 | 237 | |

IRRIGATION SCHEDULE

| ITEM # | SYMBOL | DESCRIPTION | DETAIL # | MFG | UNIT | TOTAL | AS CONSTRUCTED |
|-----------|--------|---|-----------------|------------------|------|--------|----------------|
| 619-40120 | | 1-1/2 INCH COPPER PIPE, TYPE "K" | 6 | CERRO | LF | 40 | |
| 619-50080 | | 1 INCH PLASTIC PIPE, CL200 PVC LATERAL PIPE | 11 | EAGLE | LF | 4,920 | |
| 619-50100 | | 1-1/4 INCH PLASTIC PIPE, CL200 PVC LATERAL PIPE | 11 | EAGLE | LF | 80 | |
| 619-50160 | | 2 INCH PLASTIC PIPE, CL200 PVC MAINLINE PIPE | 11 | EAGLE | LF | 2,700 | |
| 619-50160 | | 2 INCH PLASTIC PIPE, SCH40 PVC SLEEVE | 12 | EAGLE | LF | 1,620 | |
| 623-00156 | | IRRIGATION BUBBLER (RAIN BIRD 1402 WITH SWING PIPE AND FITTINGS) | 17 | RAIN BIRD | EA | 384 | |
| 623-00162 | | DRIP EMITTER TUBING, 3/4 INCH NSF80# POLY DRIP | 13 & 16 | EAGLE | LF | 4,100 | |
| 623-00164 | N/S | DRIP EMITTER | 13 | RAIN BIRD | EA | 700 | |
| 623-00166 | | 3/4 INCH EMITTER VALVE ASSEMBLY, X CZ-075-PRF W/ BALL VALVE | 14 & 15 | RAIN BIRD | EA | 14 | |
| 623-00602 | | 2 INCH PLASTIC PIPE (IRRIGATION/SLEEVE), SCH40 "BORE-IN" | 12 | EAGLE | LF | 2,040 | |
| 623-00604 | | 4 INCH PLASTIC PIPE (IRRIGATION/SLEEVE), SCH40 "BORE-IN" | 12 | EAGLE | LF | 1,160 | |
| 623-01712 | | 1-1/2 INCH BACKFLOW PREVENTER, 825YA W/ SBBC-45AL ENCLOSURE | 6 & 7 | FEBCO / SRONGBOX | EA | 1 | |
| 623-02006 | N/S | 3/4 INCH DRAIN VALVE | 9 | MATCO | EA | 3 | |
| 623-03108 | | 1 INCH AUTOMATIC CONTROL VALVE, PEB SERIES | 2 | RAIN BIRD | EA | 14 | |
| 623-03116 | | 1-1/2 INCH AUTOMATIC CONTROL VALVE, MASTER CONTROL | 10 | RAIN BIRD | EA | 1 | |
| 623-04000 | N/S | CONTROL WIRE 24 VOLT, 14 GAUGE | 11 | PAIGE WIRE | LF | 15,000 | |
| 623-04000 | N/S | COMMON WIRE 24 VOLT, 12 GAUGE | 11 | PAIGE WIRE | LF | 5,000 | |
| 623-04002 | N/S | POWER SOURCE WIRE | N/S | | LF | 20 | |
| 623-04008 | | 1 INCH QUICK-COUPLER VALVE, 44LRC | 3 | RAIN BIRD | EA | 3 | |
| 623-05016 | | 2 INCH GATE VALVE | 9 | MATCO | EA | 4 | |
| 623-06900 | N/S | VALVE BOX STANDARD - 1419-12-4 CARSON W/ LID & LOCKING BOLTS | 9 | CARSON IND. | EA | 16 | |
| 623-06900 | N/S | VALVE BOX 10" ROUND - 910-10-4 CARSON W/ LID & LOCKING BOLTS | 3, 4, 8, 9 & 16 | CARSON IND. | EA | 34 | |
| 623-06901 | N/S | VALVE BOX (SPECIAL) JUMBO - 1730-15-3L CARSON W/ LID & LOCKING BOLTS | 15 | CARSON IND. | EA | 14 | |
| 623-07510 | | RAIN/FREEZE SHUT-OFF DEVICE, WIRELESS SENSOR ON A POLE | 5 | RAIN BIRD | EA | 1 | |
| 623-07600 | | 1-1/2 INCH FLOW SENSOR | 18 | RAIN BIRD | EA | 1 | |
| 623-08432 | | 40 STATION SATELLITE CONTROLLER W/ STAINLESS STEEL PEDESTAL PER GJ PIPE | 4 | RAIN BIRD | EA | 1 | |
| 623-xxxxx | N/S | 1/4" DISTRIBUTION PIPE (SPAGETTI) | 13 | EAGLE | LF | 1,500 | |
| 623-xxxxx | | DRIP LINE BLOW-OUT AND OPERATIONAL INDICATOR - WITHOUT 10" BOX | 16 | | EA | 26 | |

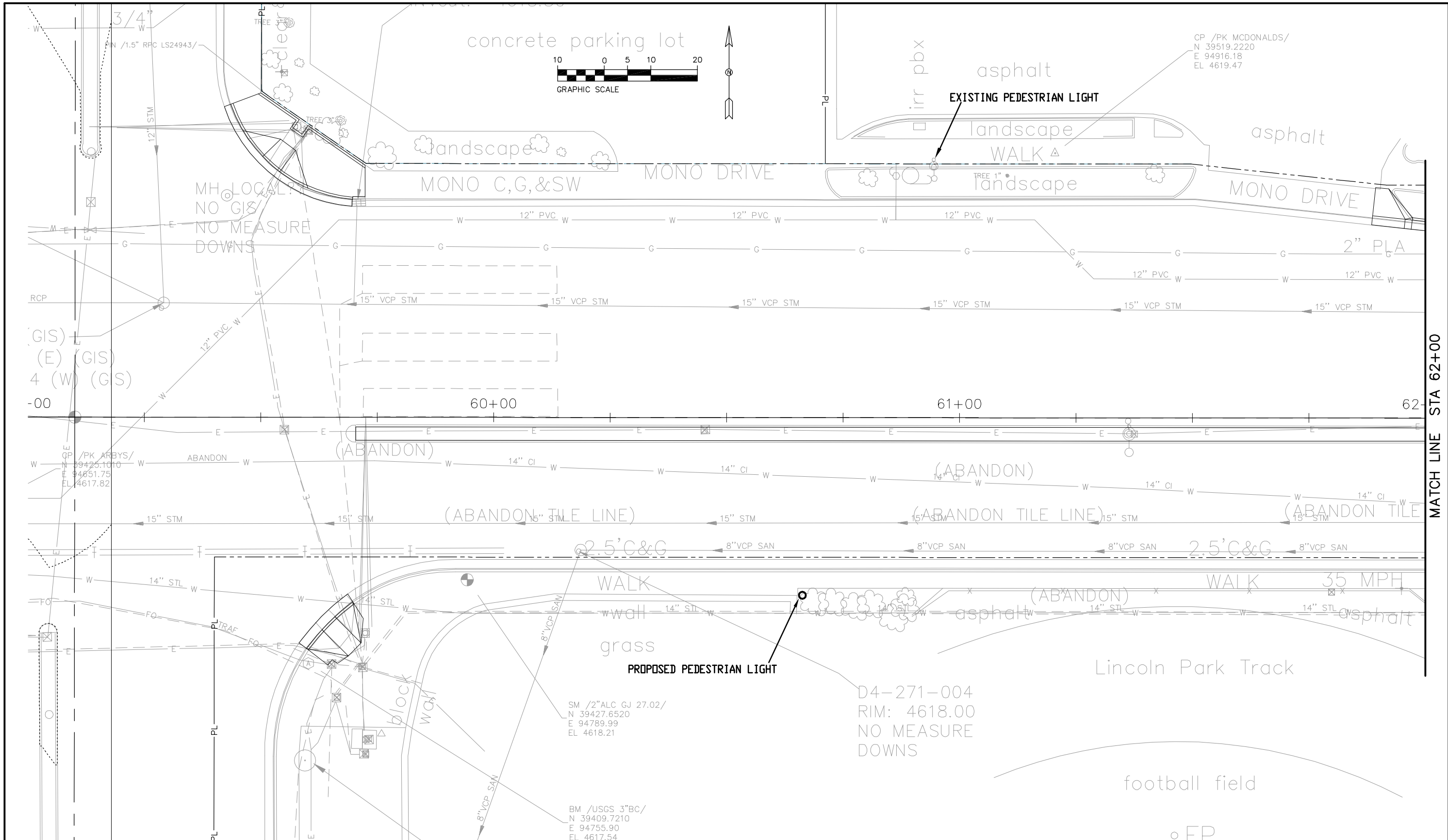


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860 Tabor Street, Suite 200
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 303-980-5327
 303-980-5384 (fax)

| | | | | | | |
|--|--|--------------------------------|---|-----------------------|--|--|
| Print Date: August 21, 2015. | | Sheet Revisions | Colorado Department of Transportation | As Constructed | Irrigation Tabulation | Project No./Code |
| File Name: North Avenue | | Date: Comments Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | No Revisions: | Designer: Hugo Ochoa Detailer: Ken DiPaolo Sheet Subset: | Structure Numbers Subset Sheets: IR-20 Sheet Number 238 |
| Horiz. Scale: Vert. Scale: NA | | | | Revised: | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Void: | | |
| | | | | | | |

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:20 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |
| | | |
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Colorado Department of Transportation



606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

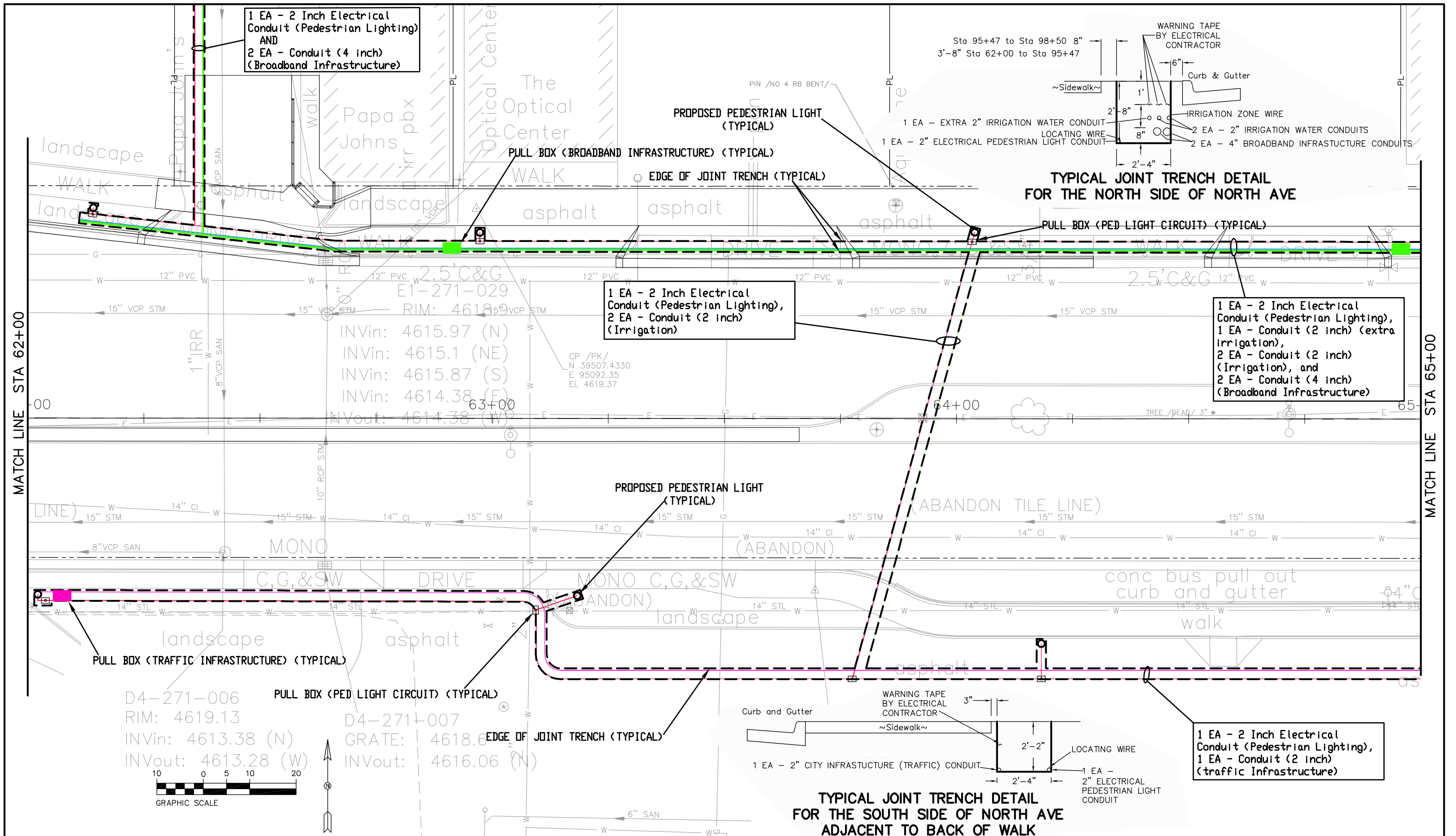
Region 3 RBB



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|----------------|
| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| | |
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| Conduit Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | Subset Sheets: 1 of 14 |
| Sheet Subset: Conduit | |

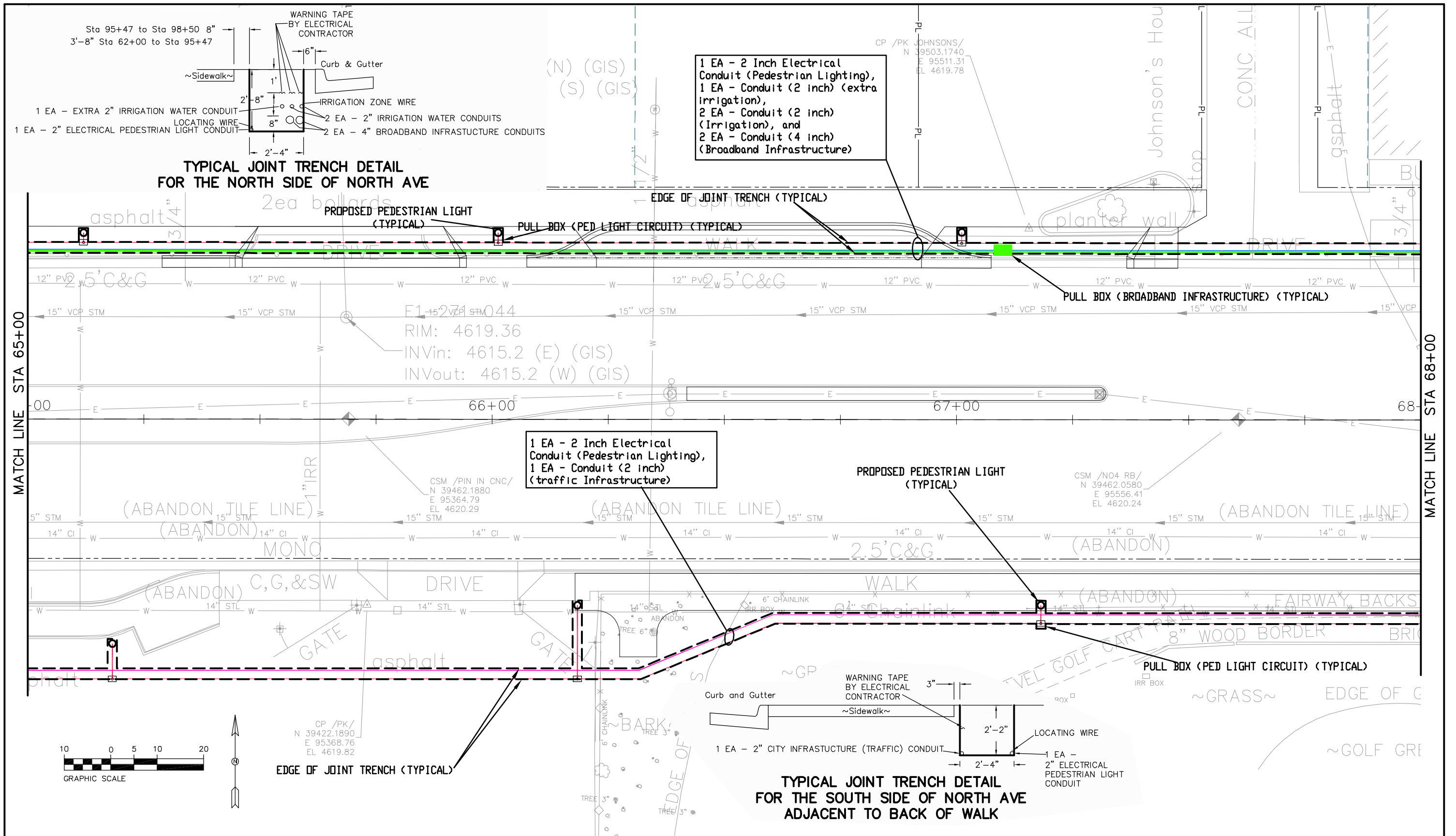
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 239 |

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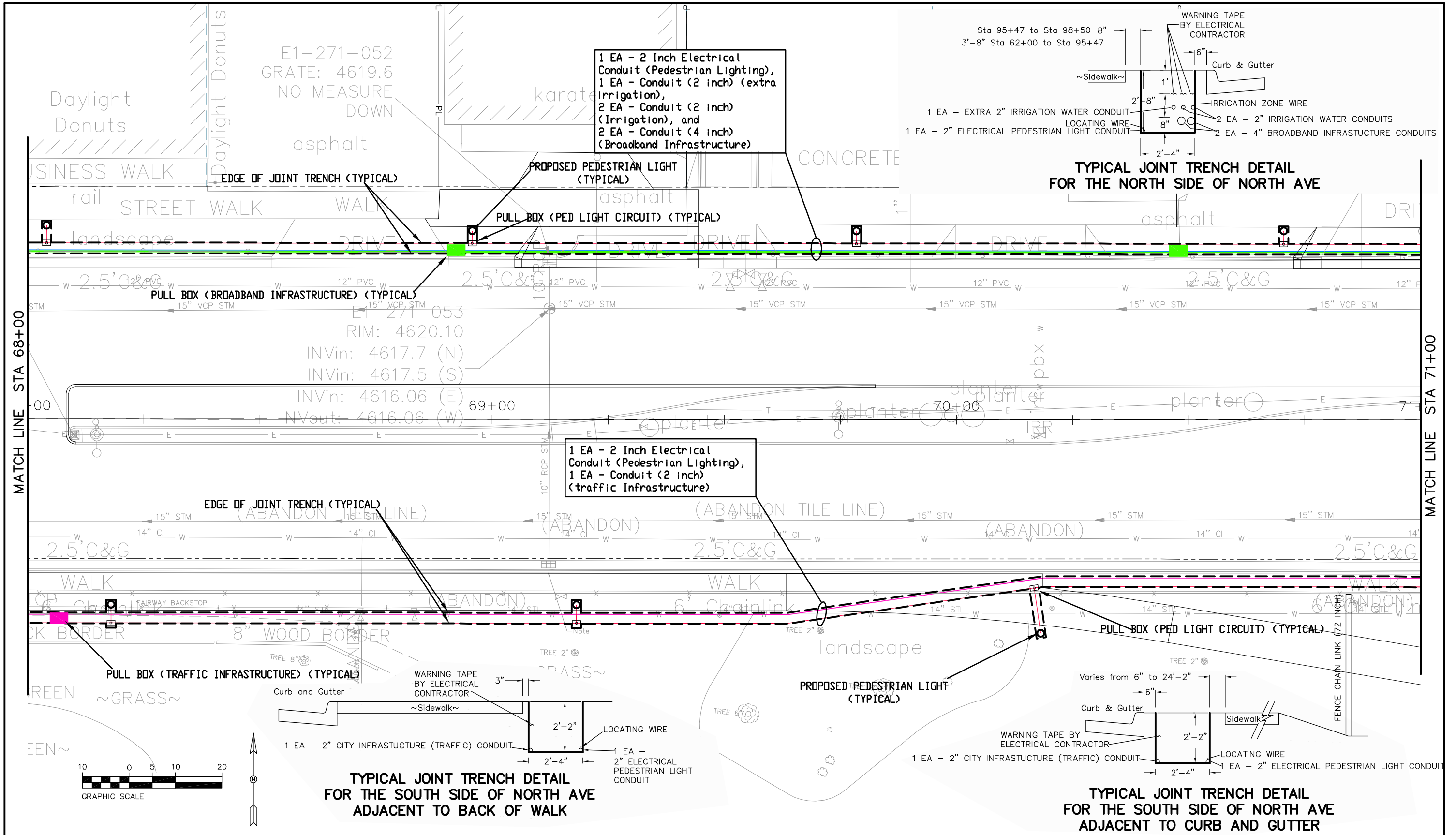


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|--|--|---|----------------------|-------|--|--|----------------|--|--|--|------------------------|--|
| Print Date: AT LEFT | | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Conduit Plan | | Project No./Code | |
| File Name: AT LEFT | | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:20 | | 10/16/15 | Addendum on 10/16/15 | JE | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | |  GRAPHIC SCALE | | | Region 3 | | Void: | | Sheet Subset: Conduit | | Subset Sheets: 2 of 14 | |
| | | | | | RBB | | | | Sheet Number | | 240 | |

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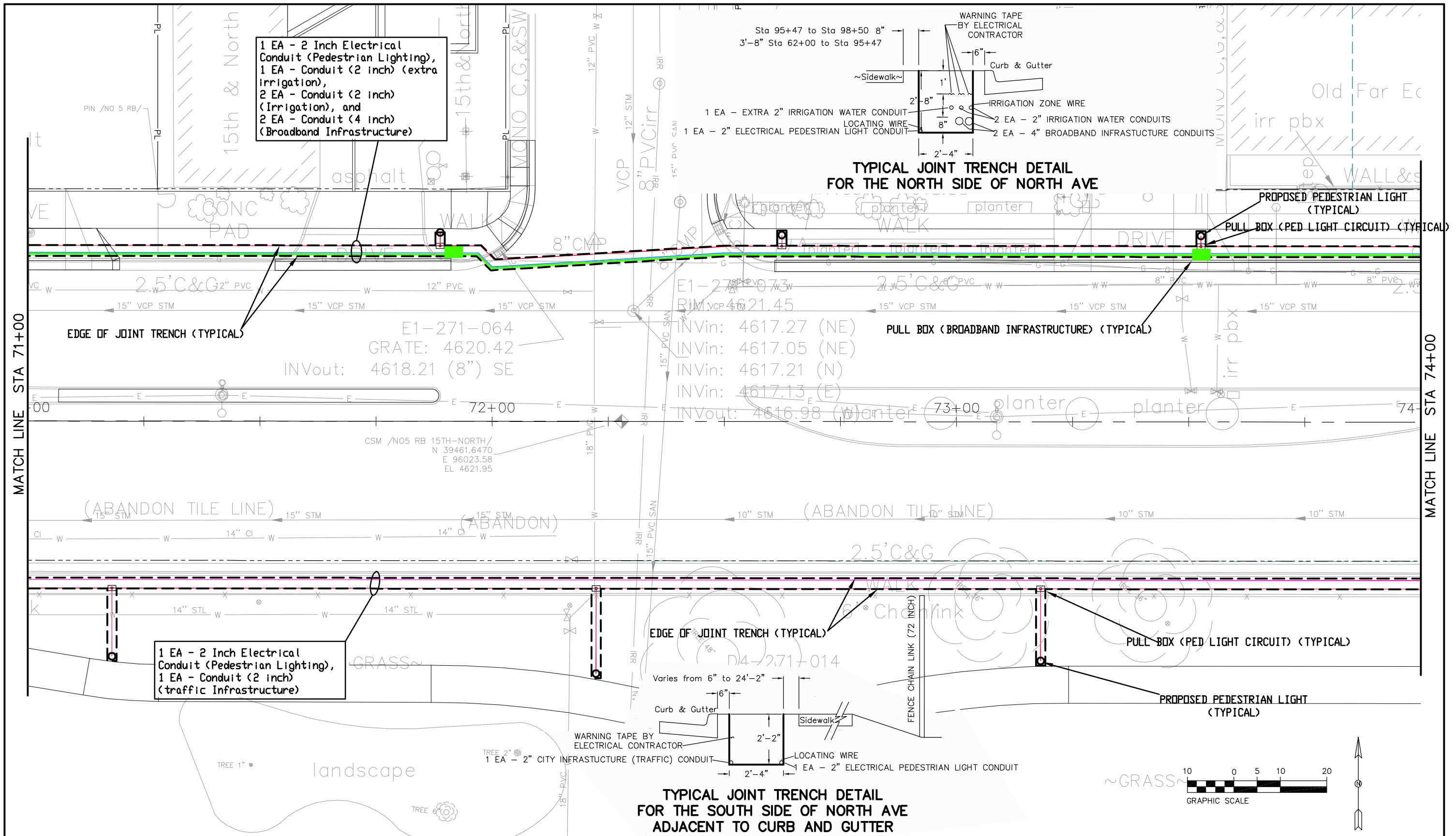


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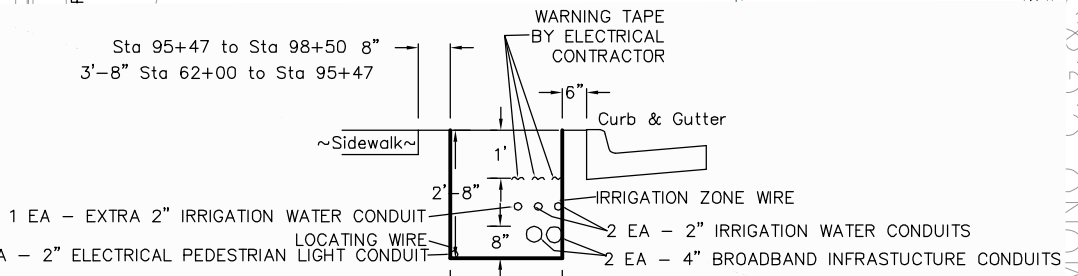
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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Project No./Code | |
| File Name: AT LEFT | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | TCSP M555-029 | |
| Horiz. Scale: 1:20 | 10/16/15 | Addendum on 10/16/15 | JE | | | Revised: | | Designer: John Smith | Structure Numbers |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 | | Void: | | Sheet Subset: Conduit | Subset Sheets: 4 of 14 |
| | | | | | RBB | | | | Sheet Number 242 |

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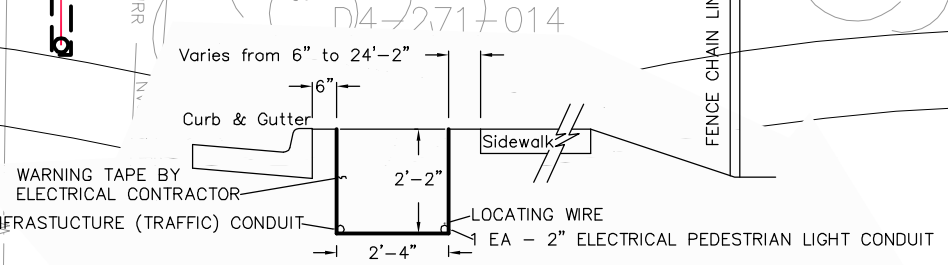
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (extra Irrigation),
 2 EA - Conduit (2 inch) (Irrigation), and
 2 EA - Conduit (4 inch) (Broadband Infrastructure)

TYPICAL JOINT TRENCH DETAIL FOR THE NORTH SIDE OF NORTH AVE

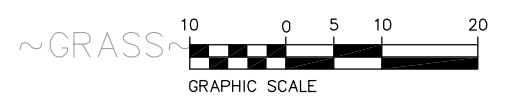


E1-271-064
 GRATE: 4620.42
 INVout: 4618.21 (8") SE

TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO CURB AND GUTTER



1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (traffic Infrastructure)



| | | | | | | | | | | | |
|--|-----------------|----------------------|-------|--|--|----------------|--|--|--|------------------------|-------------------------|
| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Conduit Plan | | Project No./Code | |
| File Name: AT LEFT | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:20 | 10/16/15 | Addendum on 10/16/15 | JE | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 | | Void: | | Sheet Subset: Conduit | | Subset Sheets: 5 of 14 | |
| | | | | | | | | | | | Sheet Number 243 |

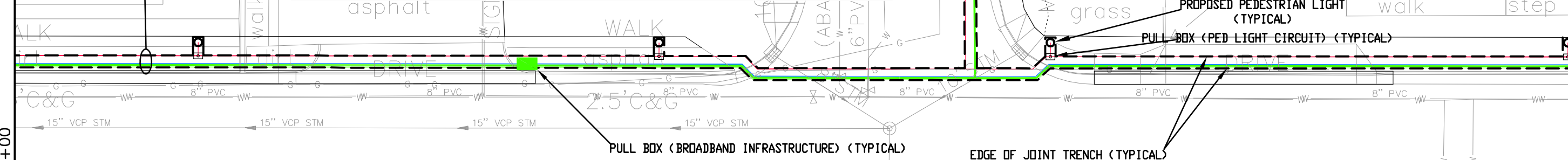
N:\Cadd\John Smith\Projects\NORTH AVE\ACAD Drawings\conduit plan.dwg, 10/15/2015 12:55:31 PM

1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
1 EA - Conduit (2 inch) (extra irrigation),
2 EA - Conduit (2 inch) (Irrigation), and
2 EA - Conduit (4 inch) (Broadband Infrastructure)

Sta 95+47 to Sta 98+50 8"
3'-8" Sta 62+00 to Sta 95+47

1 EA - EXTRA 2" IRRIGATION WATER CONDUIT
1 EA - 2" ELECTRICAL PEDESTRIAN LIGHT CONDUIT

TYPICAL JOINT TRENCH DETAIL FOR THE NORTH SIDE OF NORTH AVE



MATCH LINE STA 74+00

MATCH LINE STA 77+00

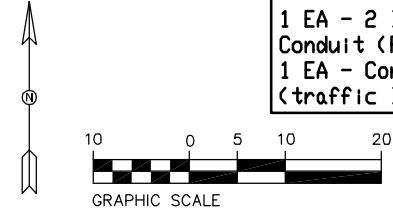
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
1 EA - Conduit (2 inch) (traffic Infrastructure)

Varies from 6" to 24'-2"
1 EA - 2" CITY INFRASTRUCTURE (TRAFFIC) CONDUIT
1 EA - 2" ELECTRICAL PEDESTRIAN LIGHT CONDUIT

TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO CURB AND GUTTER

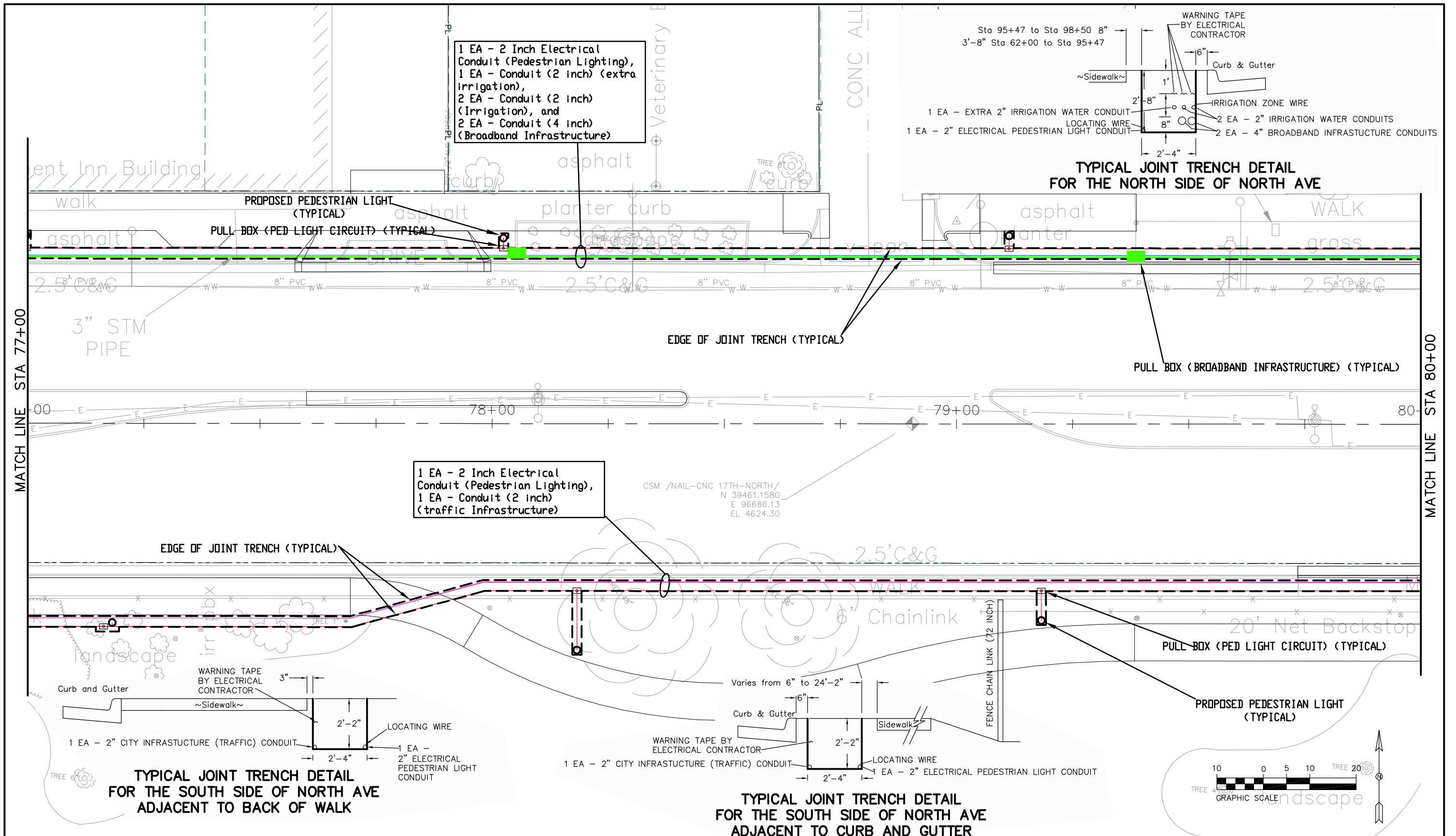
1 EA - 2" CITY INFRASTRUCTURE (TRAFFIC) CONDUIT
1 EA - 2" ELECTRICAL PEDESTRIAN LIGHT CONDUIT

TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO BACK OF WALK

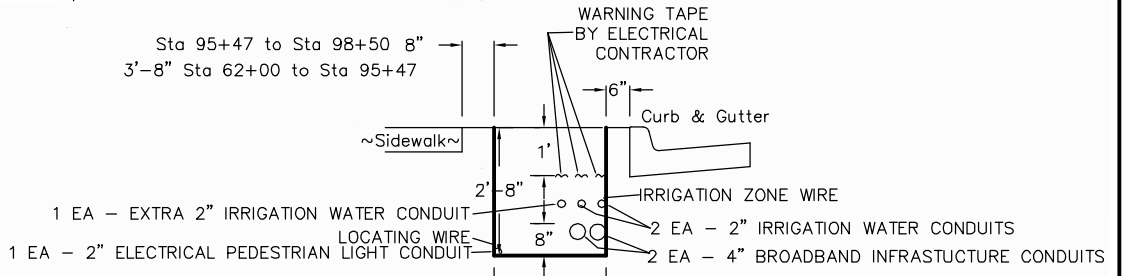


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|--|-----------------|----------------------|-------|--|--|----------------|--|--|--|------------------------|-------------------------|
| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Conduit Plan | | Project No./Code | |
| File Name: AT LEFT | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:20 | 10/16/15 | Addendum on 10/16/15 | JE | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 | | Void: | | Sheet Subset: Conduit | | Subset Sheets: 6 of 14 | |
| | | | | | | | | | | | Sheet Number 244 |

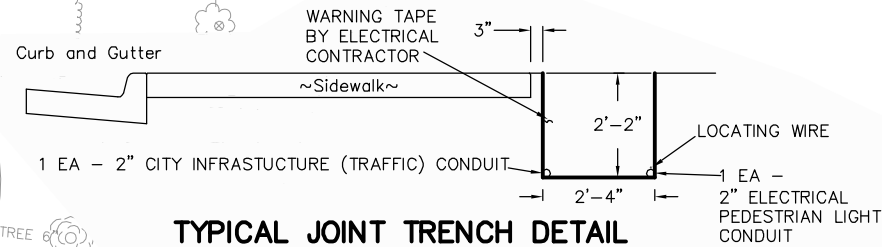
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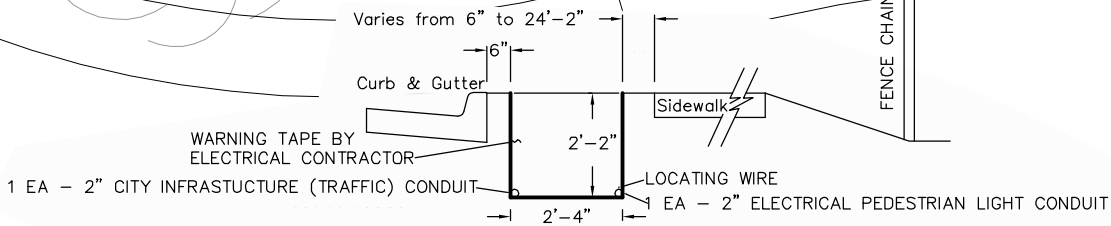
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (extra irrigation),
 2 EA - Conduit (2 inch) (Irrigation), and
 2 EA - Conduit (4 inch) (Broadband Infrastructure)



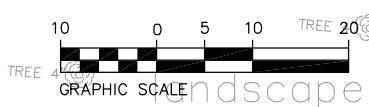
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (traffic Infrastructure)



TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO BACK OF WALK

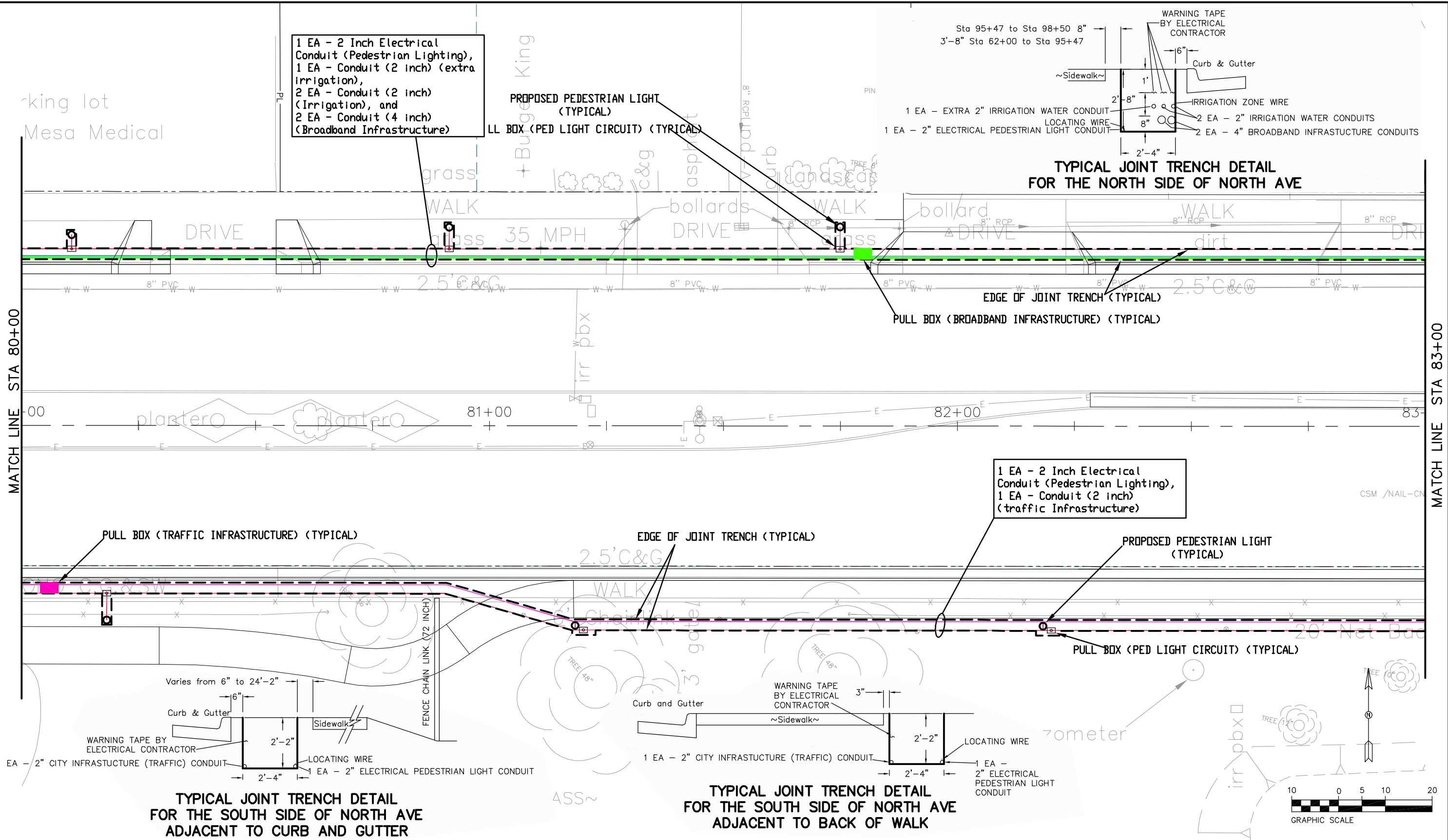


TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO CURB AND GUTTER



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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Project No./Code | | |
| File Name: AT LEFT | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: Revised: Void: | | Conduit Plan Designer: John Smith Detailer: John Smith Sheet Subset: Conduit | | TCSP M555-029 |
| Horiz. Scale: 1:20 | 10/16/15 | Addendum on 10/16/15 | JE | | | | | | | 19365 |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 | RBB | Structure Numbers | | Subset Sheets: 7 of 14 | | Sheet Number 245 |

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| File Name: AT LEFT |
| Horiz. Scale: 1:20 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

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| 10/16/15 | Addendum on 10/16/15 | JE |
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Colorado Department of Transportation

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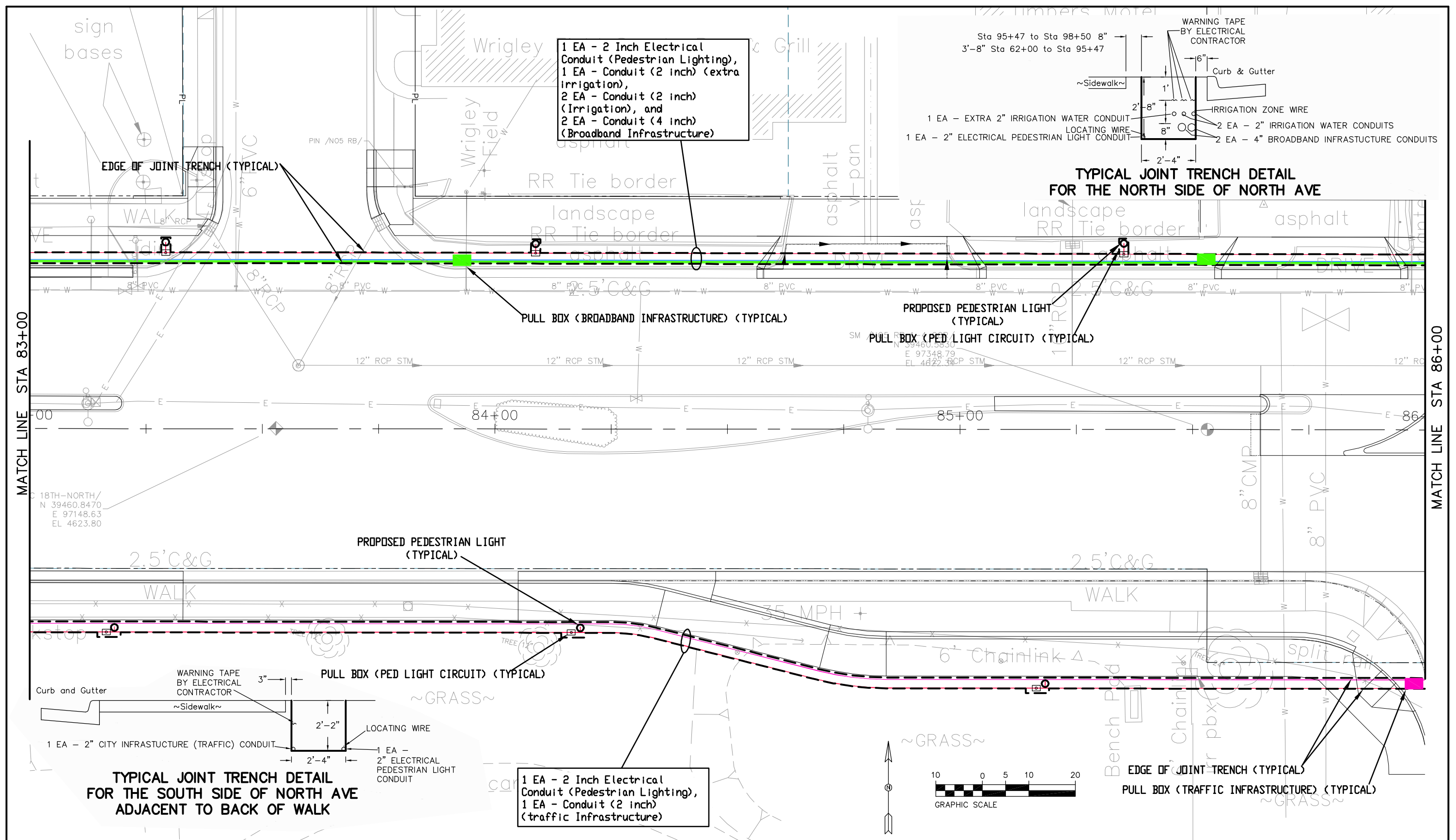
Region 3 **RBB**

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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

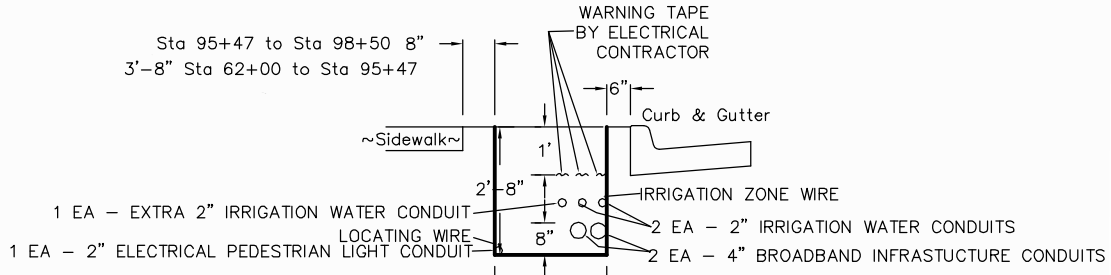
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| Conduit Plan | |
| Designer: John Smith | Structure Numbers |
| Sheet Subset: Conduit | |
| Subset Sheets: 8 of 14 | |

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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 246 |

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1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (extra irrigation),
 2 EA - Conduit (2 inch) (Irrigation), and
 2 EA - Conduit (4 inch) (Broadband Infrastructure)



TYPICAL JOINT TRENCH DETAIL FOR THE NORTH SIDE OF NORTH AVE

PULL BOX (BROADBAND INFRASTRUCTURE) (TYPICAL)

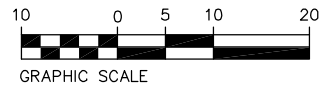
PROPOSED PEDESTRIAN LIGHT (TYPICAL)
 PULL BOX (PED LIGHT CIRCUIT) (TYPICAL)

PROPOSED PEDESTRIAN LIGHT (TYPICAL)

PULL BOX (PED LIGHT CIRCUIT) (TYPICAL)

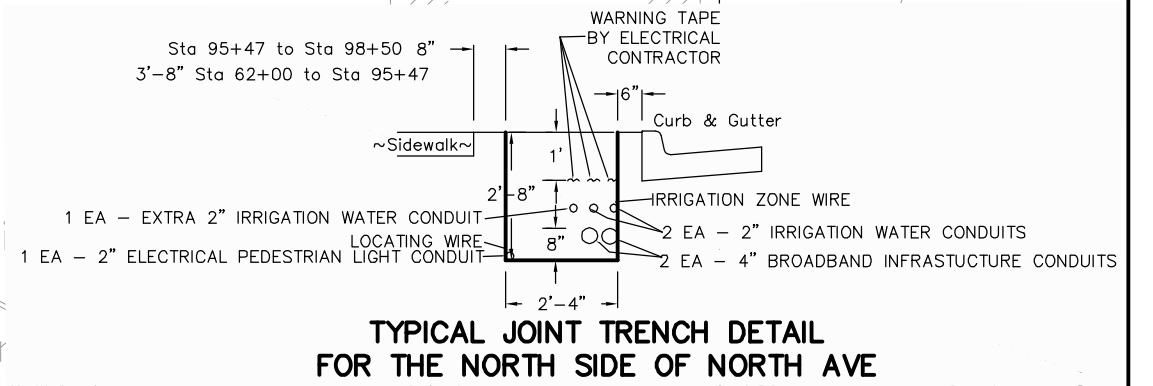
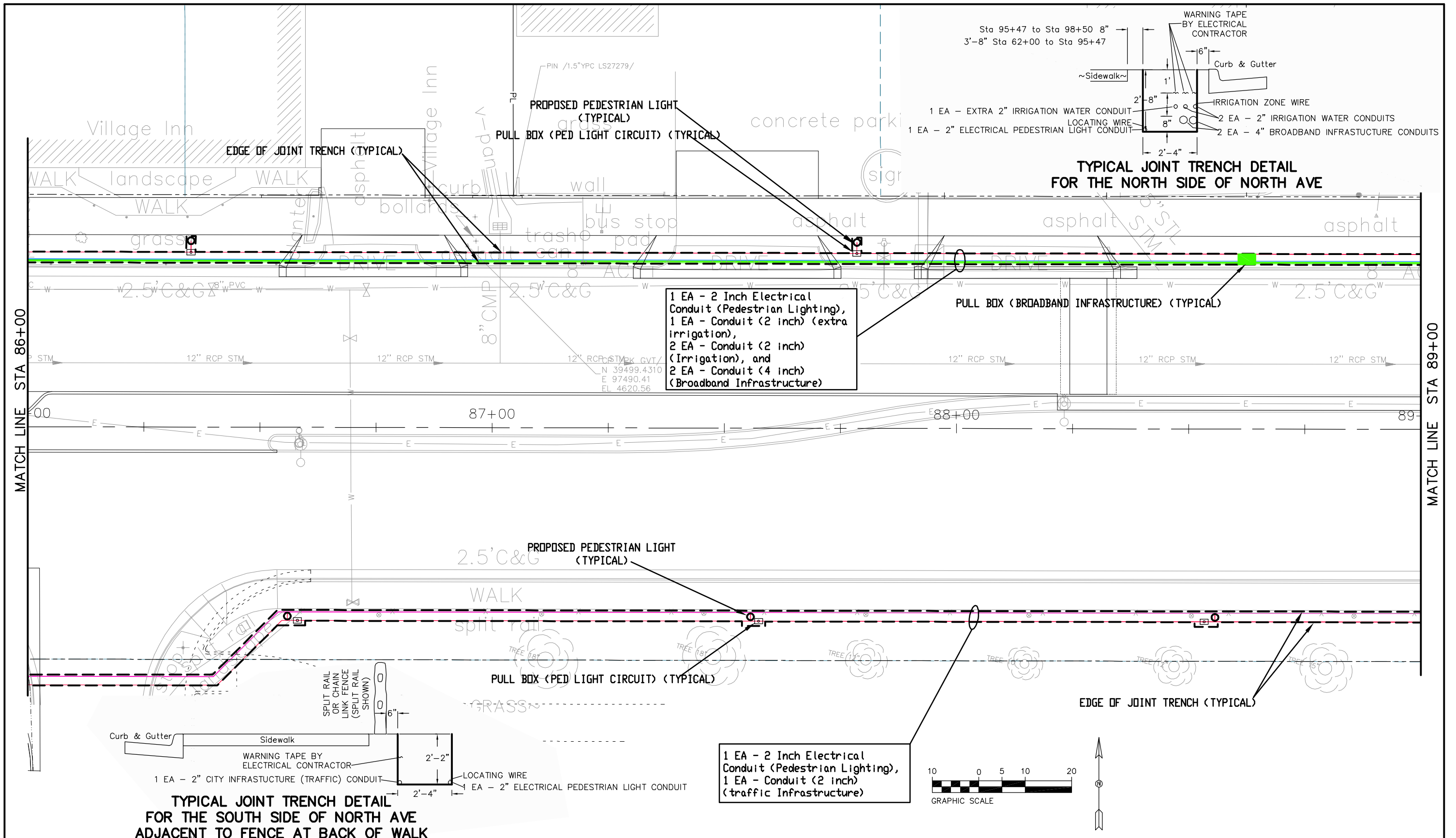
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (traffic Infrastructure)

TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO BACK OF WALK



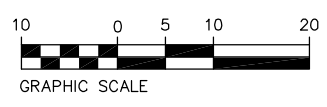
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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Conduit Plan | | Project No./Code | |
| File Name: AT LEFT | Date: | Comments | Init. | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | Designer: John Smith Detailer: John Smith | | TCSP M555-029 | |
| Horiz. Scale: 1:20 Vert. Scale: NA | 10/16/15 | Addendum on 10/16/15 | JE | | | Revised: | | | | Structure Numbers | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 RBB | | Void: | | Sheet Subset: Conduit | | Subset Sheets: 9 of 14 | |
| | | | | | | | | | | | Sheet Number 247 |

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1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (extra irrigation),
 2 EA - Conduit (2 inch) (Irrigation), and
 2 EA - Conduit (4 inch) (Broadband Infrastructure)

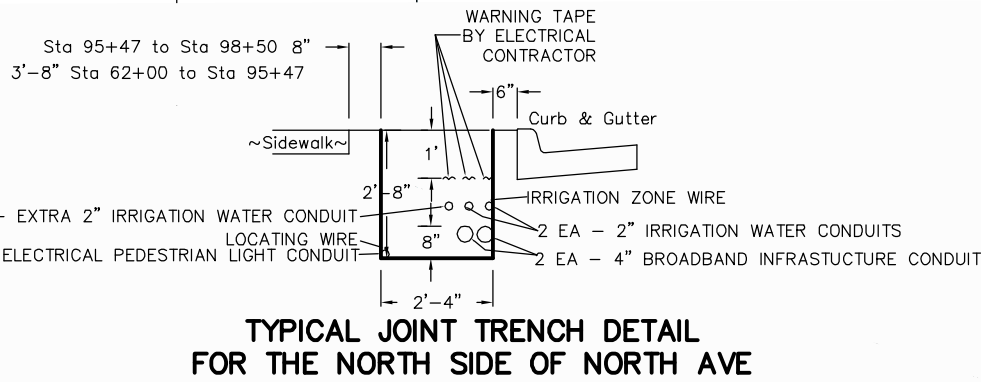
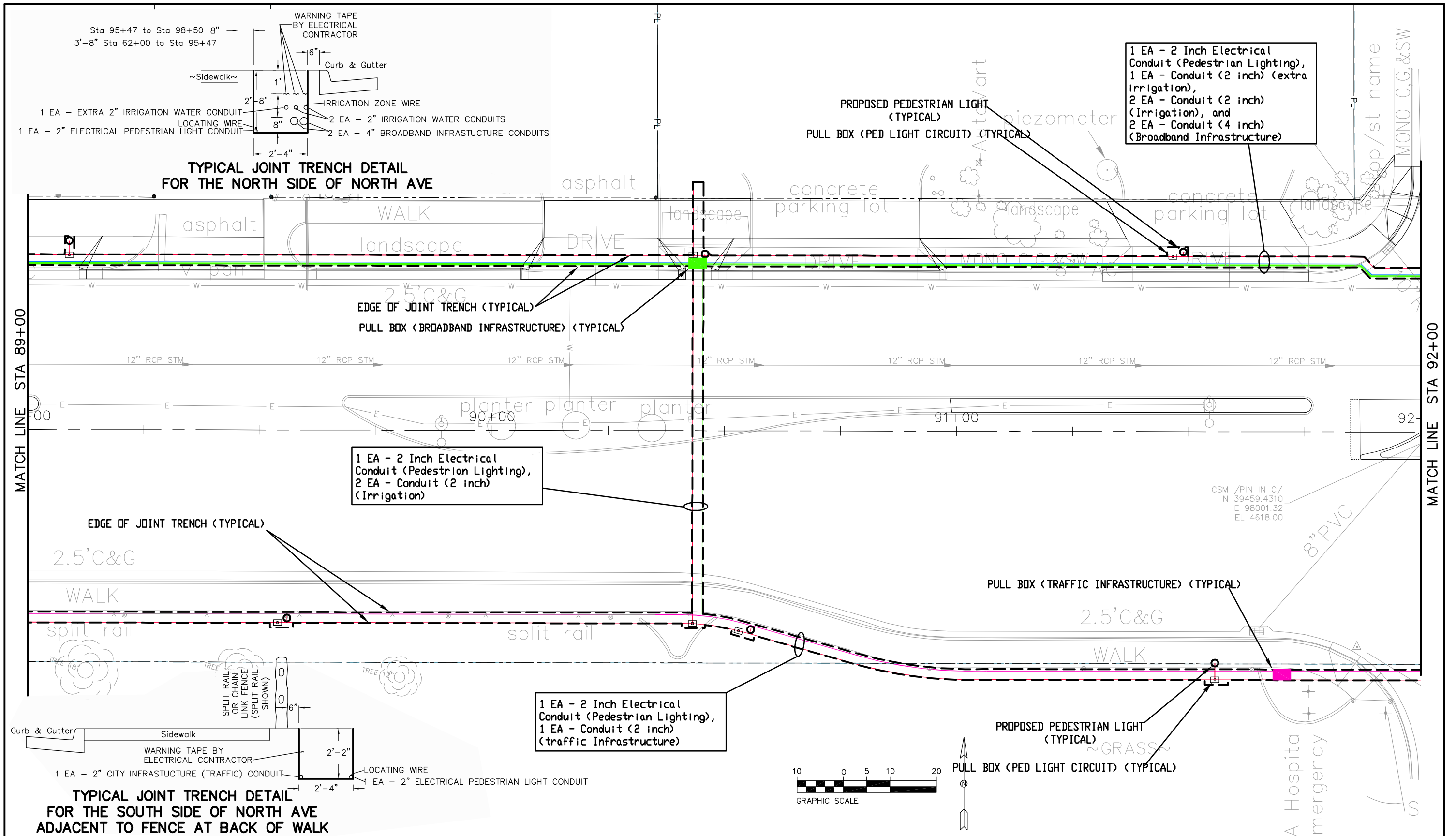
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
 1 EA - Conduit (2 inch) (traffic Infrastructure)



TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO FENCE AT BACK OF WALK

| | | | | | | | | | | |
|---|--|---|--|-------------------------|---|--|---|--|-----------------------------------|--|
| Print Date: AT LEFT | | Sheet Revisions Date: 10/16/15 Comments: Addendum on 10/16/15 Init.: JE | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | As Constructed No Revisions: Revised: Void: | Conduit Plan Designer: John Smith Detailer: John Smith Sheet Subset: Conduit | | Project No./Code TCSP M555-029 | |
| File Name: AT LEFT | | Structure Numbers | | 19365 | | | | | | |
| Horiz. Scale: 1:20 | | Subst Sheets: 10 of 14 | | Sheet Number 248 | | | | | | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | | | | |

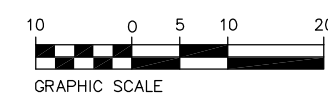
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1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
1 EA - Conduit (2 inch) (extra irrigation),
2 EA - Conduit (2 inch) (Irrigation), and
2 EA - Conduit (4 inch) (Broadband Infrastructure)

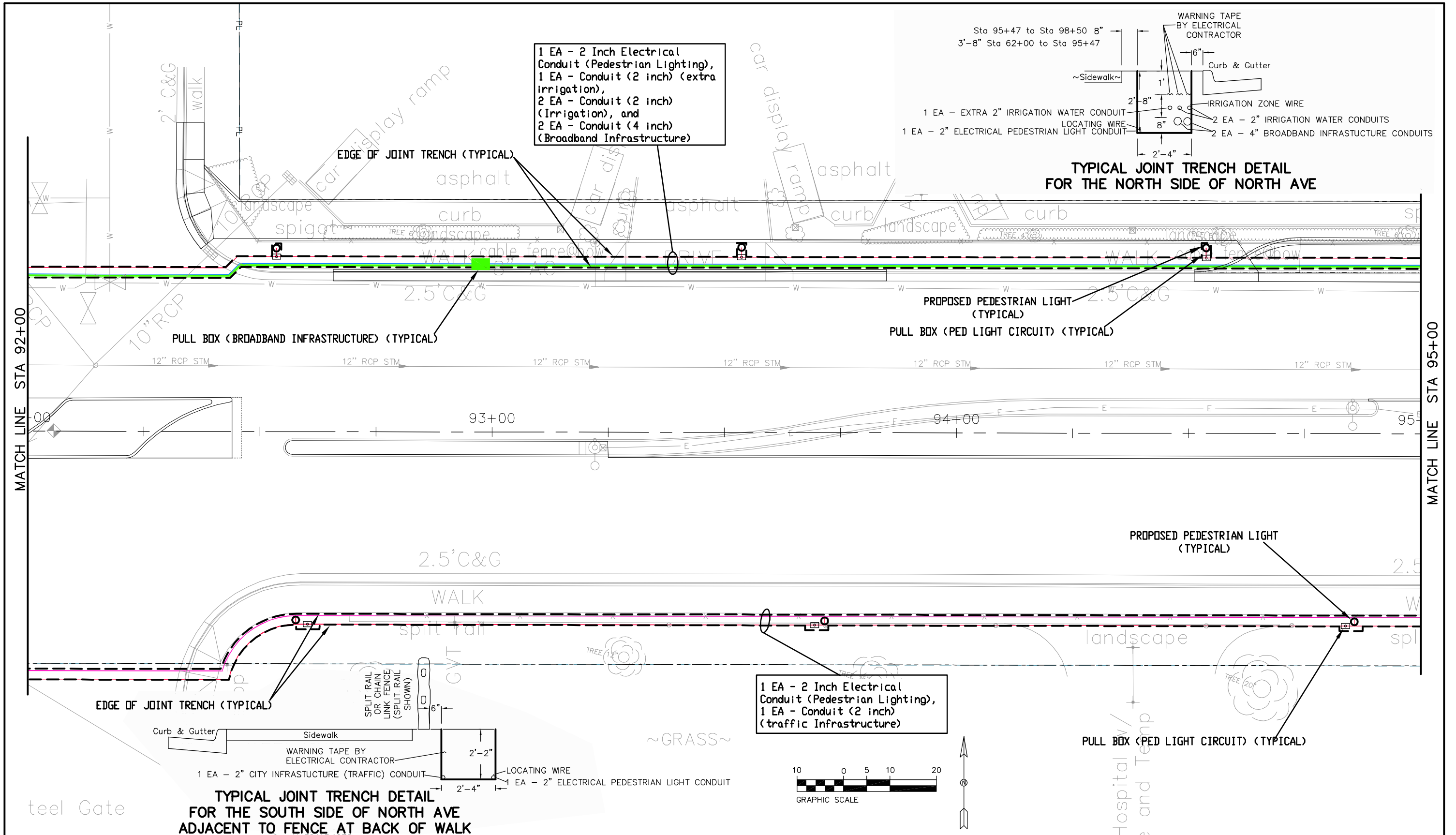
1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
2 EA - Conduit (2 inch) (Irrigation)

1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
1 EA - Conduit (2 inch) (traffic Infrastructure)



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| Print Date: AT LEFT | Sheet Revisions | | | Colorado Department of Transportation | | As Constructed | | Project No./Code | | |
| File Name: AT LEFT | Date: | Comments | Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | | No Revisions: | | TCSP M555-029 | | |
| Horiz. Scale: 1:20 | 10/16/15 | Addendum on 10/16/15 | JE | | | Revised: | Designer: John Smith | Structure Numbers | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | Region 3 | | Void: | Detailer: John Smith | Sheet Subset: Conduit | Subset Sheets: 11 of 14 | Sheet Number 249 |

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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:20 |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |

Colorado Department of Transportation



606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

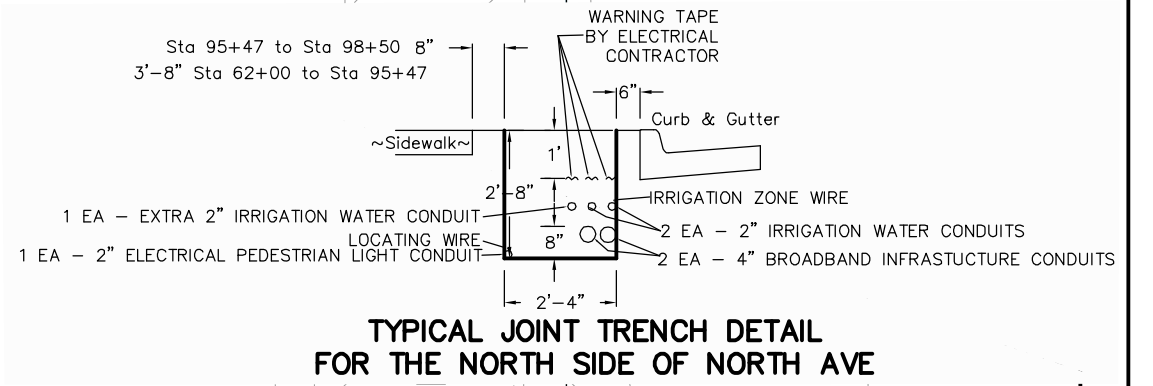
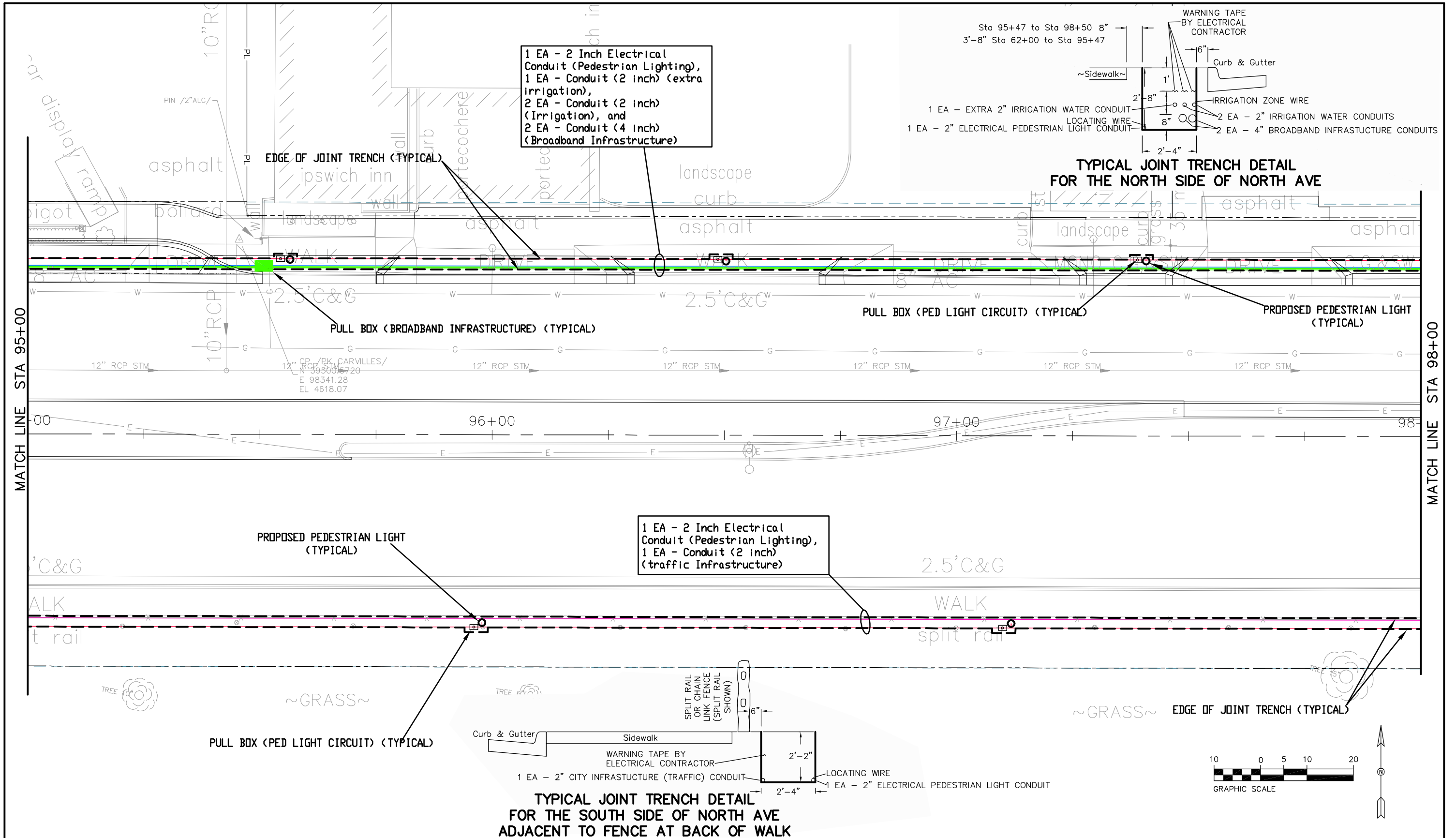
Region 3 RBB

| |
|----------------|
| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| | |
|-----------------------|-------------------------|
| Conduit Plan | |
| Designer: John Smith | Structure Numbers |
| Detailer: John Smith | Subset Sheets: 12 of 14 |
| Sheet Subset: Conduit | |

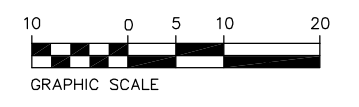
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|------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 250 |

N:\Cadd\John Smith\Projects\NORTH AVE\ACAD Drawings\conduit plan.dwg, 10/15/2015 12:59:20 PM



1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
1 EA - Conduit (2 inch)
(traffic Infrastructure)

**TYPICAL JOINT TRENCH DETAIL
FOR THE SOUTH SIDE OF NORTH AVE
ADJACENT TO FENCE AT BACK OF WALK**



| | | | | | | | | | | |
|--|--|-----------------|----------------------|-------|---|----------------|----------------------|-------------------------|------------------|------------------|
| Print Date: AT LEFT | | Sheet Revisions | | | Colorado Department of Transportation Region 3 | As Constructed | | Conduit Plan | | Project No./Code |
| File Name: AT LEFT | | Date: | Comments | Init. | | No Revisions: | Revised: | | TCSP M555-029 | |
| Horiz. Scale: 1:20 | | 10/16/15 | Addendum on 10/16/15 | JE | | Void: | Designer: John Smith | Structure Numbers | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: DPJ | | | | | | | Detailer: John Smith | Subset Sheets: 13 of 14 | Sheet Number 251 | |

N:\Cadd\John Smith\Projects\NORTH AVE\ACAD Drawings\conduit plan.dwg, 10/15/2015 12:59:52 PM

1 EA - 2 Inch Electrical Conduit (Pedestrian Lighting),
1 EA - Conduit (2 inch) (extra Irrigation),
2 EA - Conduit (2 inch) (Irrigation), and
2 EA - Conduit (4 inch) (Broadband Infrastructure)

Sta 95+47 to Sta 98+50 8"
3'-8" Sta 62+00 to Sta 95+47

WARNING TAPE BY ELECTRICAL CONTRACTOR

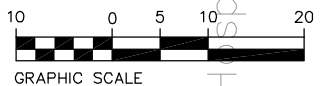
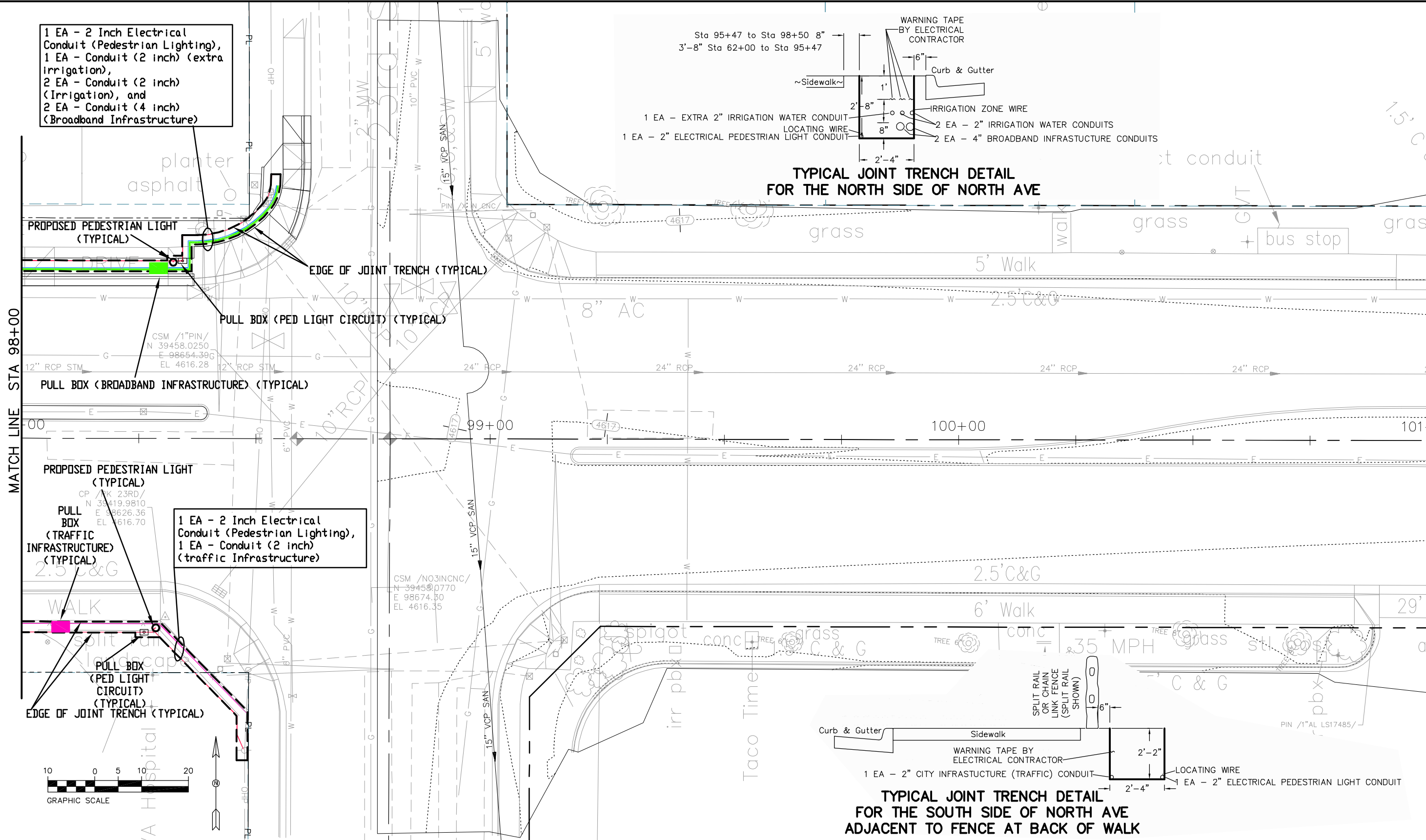
1 EA - EXTRA 2" IRRIGATION WATER CONDUIT
1 EA - 2" ELECTRICAL PEDESTRIAN LIGHT CONDUIT

2 EA - 2" IRRIGATION WATER CONDUITS
2 EA - 4" BROADBAND INFRASTRUCTURE CONDUITS

TYPICAL JOINT TRENCH DETAIL FOR THE NORTH SIDE OF NORTH AVE

1 EA - 2" CITY INFRASTRUCTURE (TRAFFIC) CONDUIT
1 EA - 2" ELECTRICAL PEDESTRIAN LIGHT CONDUIT

TYPICAL JOINT TRENCH DETAIL FOR THE SOUTH SIDE OF NORTH AVE ADJACENT TO FENCE AT BACK OF WALK



MATCH LINE STA 98+00

| |
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| Print Date: AT LEFT |
| File Name: AT LEFT |
| Horiz. Scale: 1:20 |
| Unit Information: City of GJ Unit Leader Initials: DPJ |

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |

Colorado Department of Transportation

606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB




| | | |
|----------------|-----------------------|-------------------------|
| As Constructed | Conduit Plan | |
| No Revisions: | Designer: John Smith | Structure Numbers |
| Revised: | Detailer: John Smith | |
| Void: | Sheet Subset: Conduit | Subset Sheets: 14 of 14 |

| |
|------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 252 |

STREET LIGHTING GENERAL NOTES:

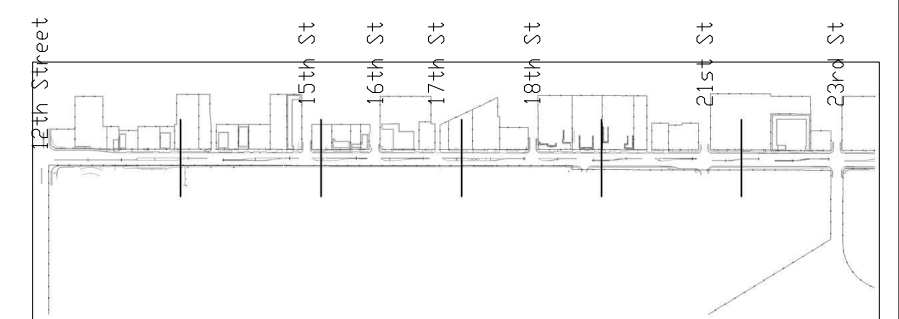
1. THIS PROJECT CONSISTS OF WORK TO INSTALL ALL WIRING, CONDUIT, PULL BOXES, AND POWER PANEL. REFERENCE SCHEDULE OF LIGHTING DEVICES AND SUMMARY OF QUANTITIES DRAWING LE3.
2. LIGHT STANDARD & LUMINAIRE (PEDESTRIAN), PAY ITEM 613-30005, SHALL INCLUDE THE FOLLOWING ITEMS FROM MH LIGHTING LOCATED AT 1044 SPEER BOULEVARD, DENVER, CO 80204-0222, 303.573.0222. THE ITEMS NUMBERS ARE AS FOLLOWS.
 - TYPE 5A - 1A-1527FLED-5M-SV1-4ARC-35(00)K-T2-F-MDLO3-BK
3. ALL PEDESTRIAN LIGHTING LUMINARIES INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH A ELECTRICAL CONTRACTOR SUPPLIED PHOTO CELL TO BE LOCATED IN NEW MILBANK POWER PEDESTAL #CP3B5110A22SL1.
4. ELEVATIONS SHOWN IN THE SCHEDULE OF LIGHTING DEVICES ON THE PLANS SHEETS REPRESENT THE DESIGN FINISHED GRADE OR THE EXISTING GROUND FINISHED GRADE. THESE ELEVATIONS DO NOT INDICATE THE TOP ELEVATION OF THE LUMINAIRE (PEDESTRIAN) FOUNDATION. PEDESTRIAN LIGHTING FOUNDATIONS SHALL BE CONSTRUCTED PER THE MANUFACTURERS RECOMMENDATIONS.
5. PULL BOXES FOR LIGHT STANDARD (PEDESTRIAN) WILL BE TYPE 1 CDOT PULL BOXES 11"X18"X12".
6. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE..
7. ALL ELECTRICAL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE, TYPICAL.
8. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
9. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
10. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE..
11. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK..

LIGHTING LEGEND

- PP1-X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)
- UB  HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER. 11"X18"X12" TYPE 1.
-  UNDER GROUND BURIED RACEWAY (2#2 THWN CU AND 1#2 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 24" DEEP TRENCH, BURY AND COMPACTED BACKFILL TO PRE CONSTRUCTION CONDITION.
-  INSTALL SINGLE ARM PEDESTRIAN STANDARD.



**Know what's below.
Call before you dig.**



LIGHTING PLAN KEY MAP

| | | | | | | | |
|--|---|--|--|----------------|------------------------|------------------------|--------------------------|
| Print Date: 10-15-15 | | Sheet Revisions | Colorado Department of Transportation | AS CONSTRUCTED | LIGHTING GENERAL NOTES | | Project No./Code |
| File Name: | | Date: Comments Init. |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | No Revisions: | | | TCSP M555-029 |
| Horiz. Scale: AS SHOWN Vert. Scale: 1 |  | 10/16/15 Addendum on 10/16/15 JE | | Revised: | Designer: AJM | Structure Numbers | 19365 |
| Unit Information: City of GJ Unit Leader Initials: JE |  | | | Void: | Detailer: AJM | Sheet Subset: LIGHTING | Subset Sheets: LE1 of 12 |
|  ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELMRTINEZ@GMAIL.COM |  | | | | | | |

Schedule of Lighting Devices

| ITEM No. | | | | 613-30005 | | 613-40012 | | See note 5 | | NOTES |
|---------------------|----------|----------|---------|---|----------|-----------------------------------|----------|-------------------------|----------|-------|
| LONG DESCRIPTION | | | | LIGHT STANDARD AND LUMINAIRE (PEDESTRIAN) | | LIGHT STANDARD FOUNDATION SPECIAL | | LUMINAIRE LED (66 WATT) | | |
| UNITS | | | | EACH | | EACH | | EACH | | |
| SHEET NO. | I.D. NO. | STATION | OFFSET | PLAN | AS CONST | PLAN | AS CONST | PLAN | AS CONST | |
| LE-4 | SA-1 | 60+66.65 | R=38.12 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-2 | 61+51.96 | R=38.16 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-3 | 63+18.48 | R=38.23 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-4 | 64+18.48 | R=48.39 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-5 | 65+18.49 | R=48.33 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-6 | 66+18.48 | R=40.20 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-7 | 67+18.48 | R=40.13 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-8 | 68+18.48 | R=40.06 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-9 | 69+18.48 | R=39.99 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-10 | 70+18.48 | R=45.98 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-11 | 71+18.48 | R=50.52 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-12 | 72+22.67 | R=54.42 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-13 | 73+18.49 | R=51.37 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-14 | 74+18.49 | R=51.29 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-15 | 75+18.49 | R=55.58 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-16 | 76+18.48 | R=39.48 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-17 | 77+18.48 | R=42.90 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-18 | 86+35.00 | R=40.04 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-19 | 79+18.48 | R=42.44 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-20 | 80+18.48 | R=41.70 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-21 | 81+18.48 | R=42.27 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-22 | 82+18.48 | R=42.19 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-23 | 83+42.64 | R=42.64 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-24 | 84+18.48 | R=42.57 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-25 | 85+18.49 | R=54.22 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-26 | 86+56.01 | R=40.10 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-27 | 87+56.01 | R=39.91 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-28 | 88+56.01 | R=39.72 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-29 | 89+56.07 | R=39.96 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-30 | 90+56.01 | R=42.46 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-31 | 91+56.03 | R=49.84 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-32 | 92+58.02 | R=39.89 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-33 | 93+72.10 | R=40.12 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-34 | 94+86.02 | R=40.19 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-35 | 95+98.09 | R=40.53 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-36 | 97+12.09 | R=40.32 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-37 | 98+29.71 | R=39.68 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-38 | 60+13.72 | L=53.94 | 1 | | 1 | | 1 | | 1,2 |
| TABLE TOTALS | | | | 38 | | 38 | | 38 | | |

SCHEDULE OF LIGHTING DEVICES NOTES:

- FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK
- LUMINAIRE LED (66 WATT) IS TO BE INCLUDED IN THE COST OF PAY ITEM 613-30005 LIGHT STANDARD AND LUMINAIRE (PEDESTRIAN)



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| | | | | | | | | |
|--|-----------------|----------------------|-------|--|----------------|--------------------|------------------------|--------------------------|
| Print Date: 10-15-15 | Sheet Revisions | | | Colorado Department of Transportation | AS CONSTRUCTED | LIGHTING SCHEDULES | | Project No./Code |
| File Name: | Date: | Comments | Init. | | No Revisions: | | | TCSP M555-029 |
| Horiz. Scale: AS SHOWN | 10/16/15 | Addendum on 10/16/15 | JE | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | Revised: | Designer: AJM | Structure Numbers | 19365 |
| Unit Information: City of GJ Unit Leader Initials: JE | | | | | Void: | Detailer: AJM | Sheet Subset: LIGHTING | Subset Sheets: LE2 of 12 |
| ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELMRTINEZ@GMAIL.COM | | | | | | | | |

Schedule of Lighting Devices

| ITEM No. | | | | 613-30005 | | 613-40012 | | See note 5 | | NOTES |
|---------------------|----------|----------|---------|--------------------|----------|----------------|----------|-------------------------|----------|-------|
| LONG DESCRIPTION | | | | LIGHT STANDARD AND | | LIGHT STANDARD | | LUMINAIRE LED (66 WATT) | | |
| UNITS | | | | EACH | | EACH | | EACH | | |
| SHEET NO. | I.D. NO. | STATION | OFFSET | PLAN | AS CONST | PLAN | AS CONST | PLAN | AS CONST | |
| LE-4 | SA-39 | 61+13.75 | R=52.33 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-40 | 62+14.19 | L=45.20 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-41 | 62+97.41 | L=40.03 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-42 | 64+3.92 | L=40.21 | 1 | | 1 | | 1 | | 1,2 |
| LE-4 | SA-43 | 65+12.03 | L=40.13 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-44 | 66+1.27 | L=40.24 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-45 | 67+1.27 | L=40.31 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-46 | 68+4.29 | L=41.76 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-47 | 66+95.72 | L=40.54 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-48 | 69+78.36 | L=40.60 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-49 | 70+70.36 | L=40.66 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-50 | 71+88.93 | L=40.75 | 1 | | 1 | | 1 | | 1,2 |
| LE-5 | SA-51 | 72+62.37 | L=40.08 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-52 | 73+52.66 | L=40.00 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-53 | 74+35.42 | L=40.31 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-54 | 75+24.36 | L=40.34 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-55 | 75+99.71 | L=40.42 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-56 | 76+99.71 | L=40.50 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-57 | 78+2.41 | L=39.80 | 1 | | 1 | | 1 | | 1,2 |
| LE-6 | SA-58 | 79+11.18 | L=40.48 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-59 | 80+10.68 | L=40.75 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-60 | 80+91.40 | L=42.39 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-61 | 81+75.02 | L=42.46 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-62 | 83+29.23 | L=39.95 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-63 | 84+8.61 | L=39.77 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-64 | 85+34.97 | L=39.87 | 1 | | 1 | | 1 | | 1,2 |
| LE-7 | SA-65 | 86+34.92 | L=40.04 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-66 | 87+78.45 | L=39.95 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-67 | 89+9.07 | L=40.56 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-68 | 90+45.72 | L=37.90 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-69 | 91+48.83 | L=38.09 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-70 | 92+53.61 | L=39.57 | 1 | | 1 | | 1 | | 1,2 |
| LE-8 | SA-71 | 93+53.61 | L=39.76 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-72 | 94+58.60 | L=39.95 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-73 | 95+56.52 | L=37.37 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-74 | 96+50.37 | L=37.31 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-75 | 97+40.75 | L=37.48 | 1 | | 1 | | 1 | | 1,2 |
| LE-9 | SA-76 | 98+32.39 | L=37.44 | 1 | | 1 | | 1 | | 1,2 |
| TABLE TOTALS | | | | 38 | | 38 | | 38 | | |

SCHEDULE OF LIGHTING DEVICES NOTES:

- FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK
- LUMINAIRE LED (66 WATT) IS TO BE INCLUDED IN THE COST OF PAY ITEM 613-30005 LIGHT STANDARD AND LUMINAIRE (PEDESTRIAN)

Tabulation of Approximate Quantities

| Item No. | Ref. No. | Construction Note Description | Quantity | Unit | NOTES |
|-----------------------|-----------|---|----------|------|-------|
| | 613-01200 | 2 Inch Electrical Conduit (Plastic) | 8207 | LF | |
| | 613-07001 | Type One Pull Box | 76 | EA | |
| | 613-10000 | Wiring | 1 | LS | |
| | 613-30005 | Light Standard and Luminaire (Pedestrian) | 76 | EA | |
| | 613-40012 | Light Standard Foundation (Special) | 76 | EA | |
| | 613-50106 | Lighting Control Center (Special) | 1 | EA | |
| SUMMARY NOTES: | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

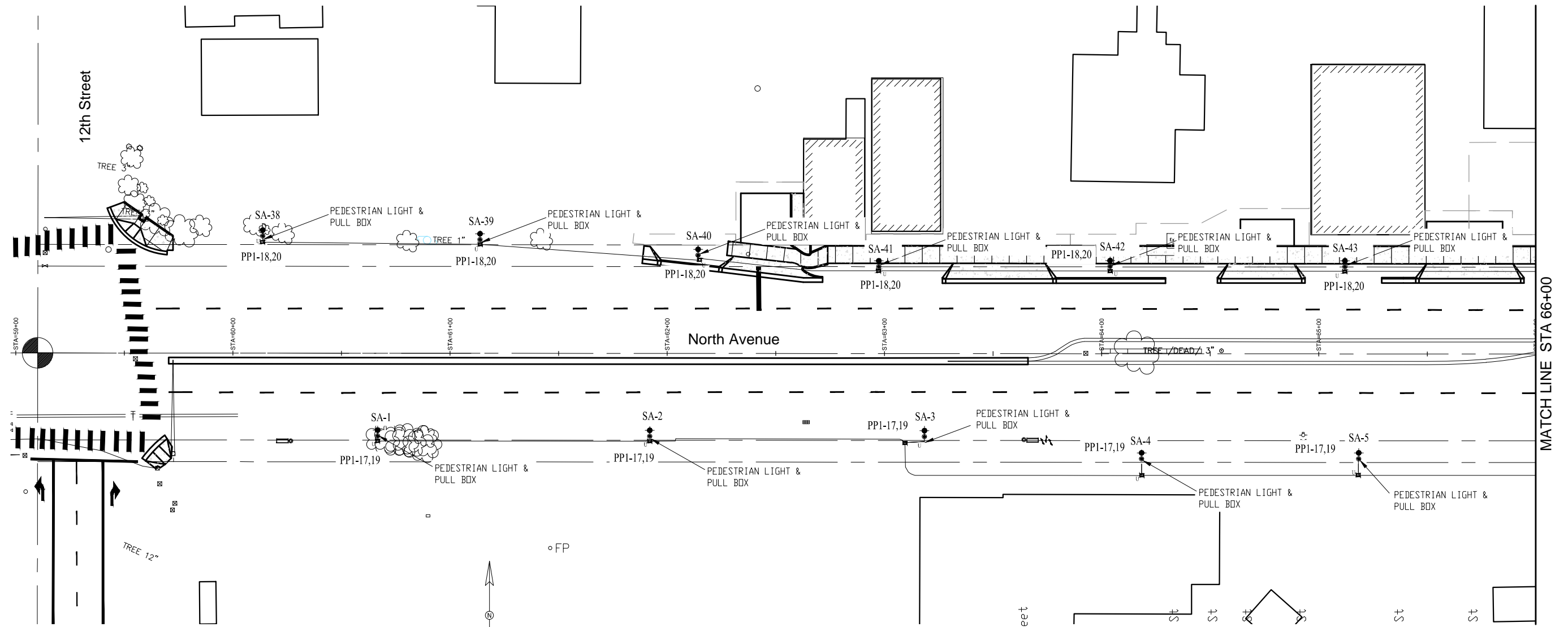


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|----------------------|--|--|--|--|---|---|------------------|
| Print Date: 10-15-15 |  Colorado Department of Transportation Region 3 | Sheet Revisions Date: 10/16/15 Comments: Addendum on 10/16/15 Init.: JE | | AS CONSTRUCTED | LIGHTING SCHEDULES | | Project No./Code |
| File Name: | |  ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELMRTINEZ@GMAIL.COM | No Revisions: Revised: Void: | Designer: AJM Detailer: AJM Sheet Subset: LIGHTING | Structure Numbers Subset Sheets: LE3 of 12 | TCSP M555-029 19365 Sheet Number 255 | |

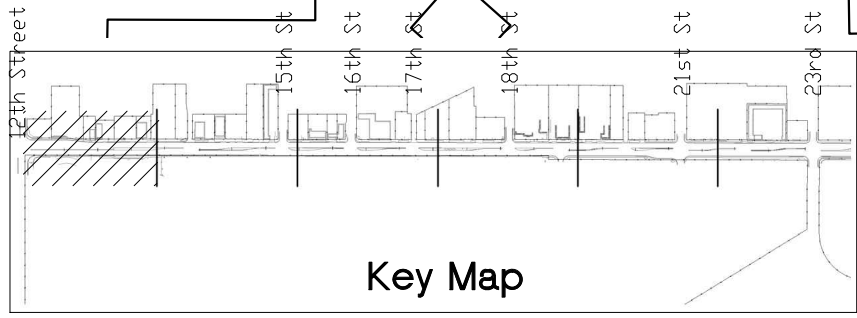
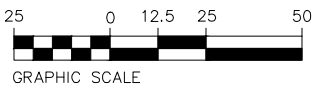


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GENERAL NOTES:

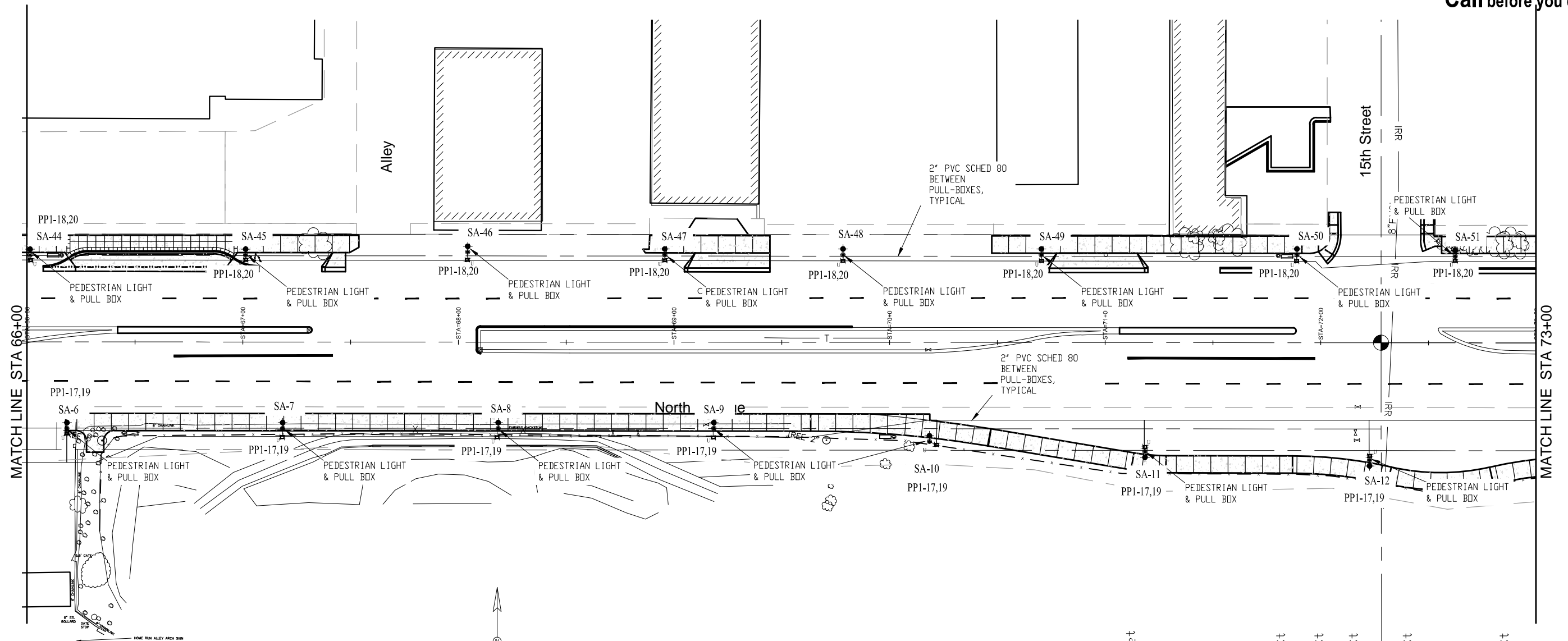
1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
3. PROVIDE 2-#6 THWN + #12GND IN 2" CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.



| | | | | | | | | |
|---|-----------------|----------------------|--------|--|----------------|---------------|-----------------------|--------------------------|
| Print Date: 10-15-15 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | Roadway Plan | | Project No./Code |
| File Name: | Date: | Comments: | Init.: | | | No Revisions: | Designer: AJM | Structure Numbers |
| Horiz. Scale: 1:50 | 10/16/15 | Addendum on 10/16/15 | JE | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | Revised: | Detailer: AJM | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: JE | | | | | Region 3 | Void: | Sheet Subset: RD PLAN | Subset Sheets: LE4 OF 10 |

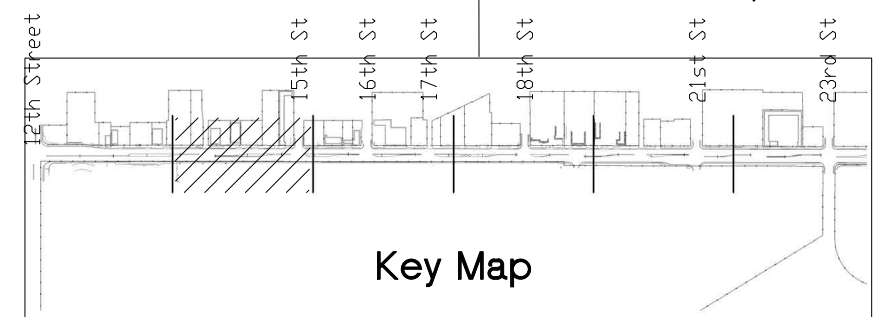
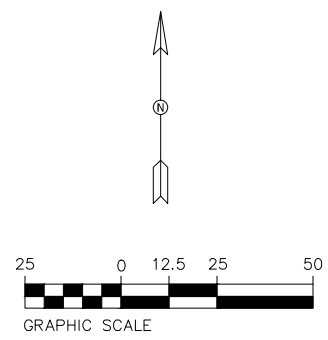


Know what's below.
Call before you dig.



GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
3. PROVIDE 2-#6 THWN + #1 2GND IN 2" CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.



| |
|---|
| Print Date: 10-15-15 |
| File Name: |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: JE |

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |
| | | |
| | | |

Colorado Department of Transportation

606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3 RBB

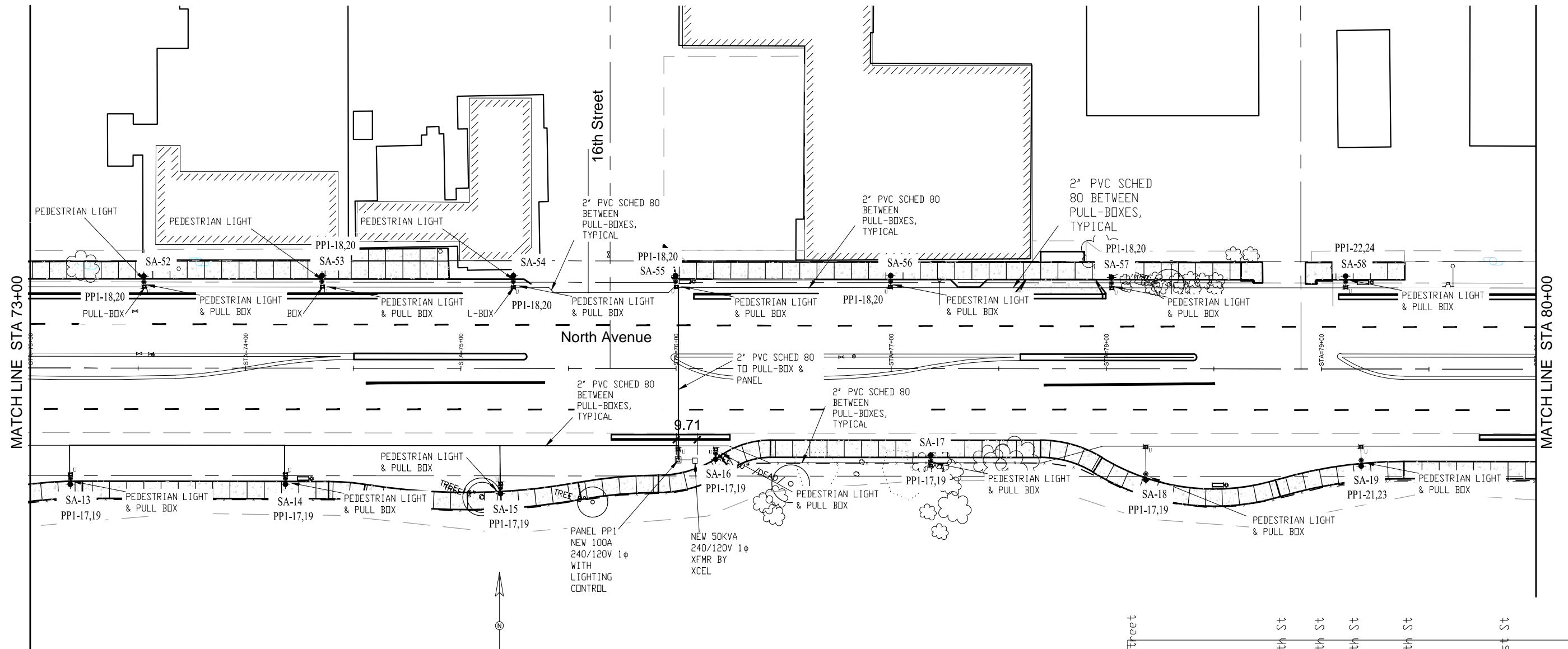
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| | |
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| Roadway Plan | |
| Designer: AJM | Structure Numbers |
| Detailer: AJM | |
| Sheet Subset: LIGHTING | Subset Sheets: LE5 of 12 |

| |
|-------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 257 |

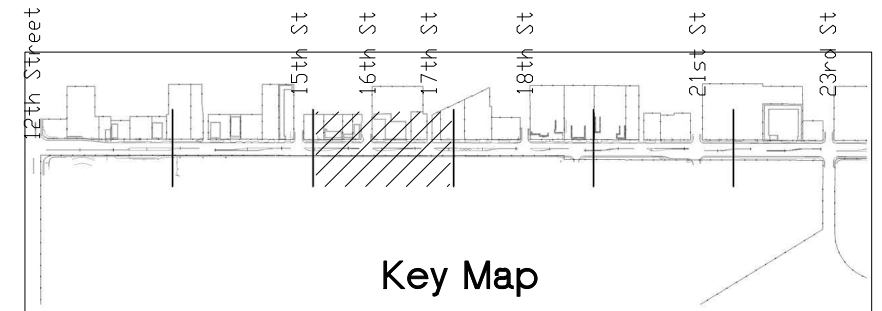
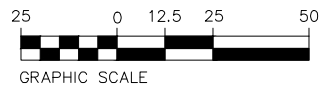


Know what's below.
Call before you dig.



GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
3. PROVIDE 2-#6 THWN + #12GND IN 2" CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.

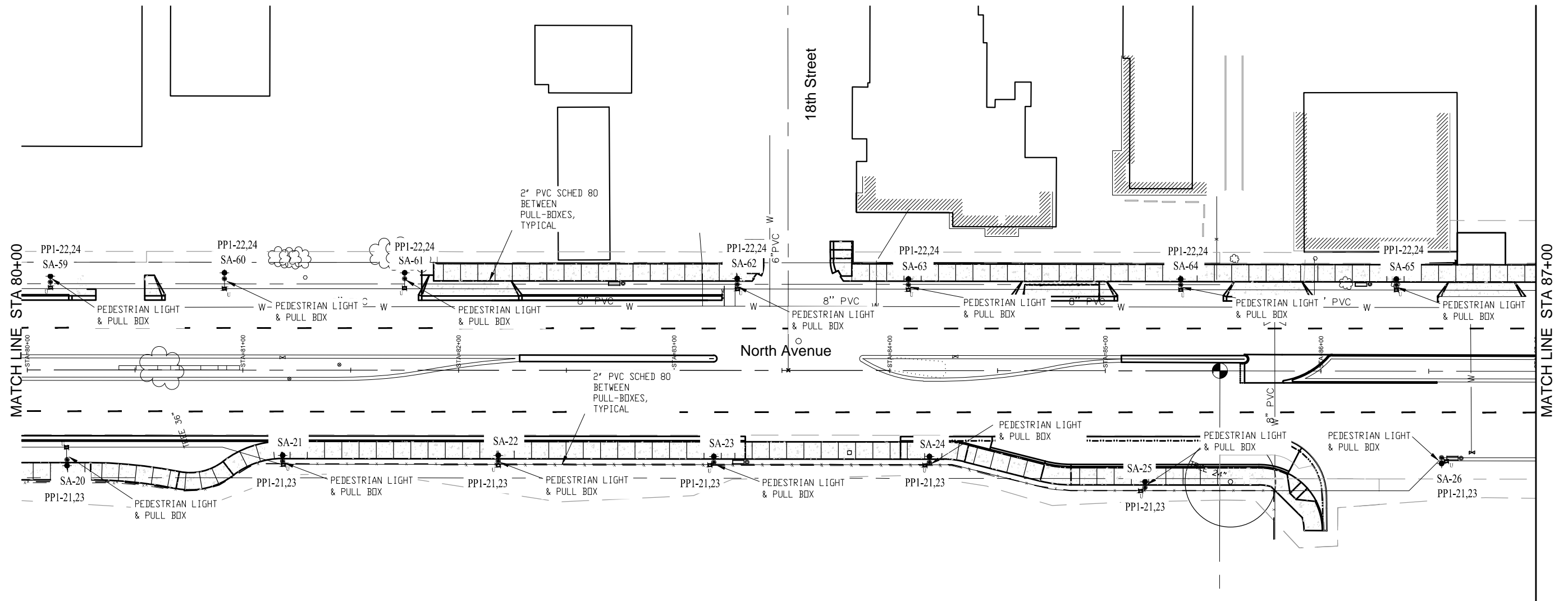


Key Map

| | | | | | | | | |
|---|-----------------|----------------------|--------|--|----------------|------------------------|--------------------------|-------------------------|
| Print Date: 10-15-15 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | Roadway Plan | | Project No./Code |
| File Name: | Date: | Comments: | Init.: | | | No Revisions: | Designer: AJM | Structure Numbers |
| Horiz. Scale: 1:50 | 10/16/15 | Addendum on 10/16/15 | JE | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 | Revised: | Detailer: AJM | 19365 | |
| Unit Information: City of GJ Unit Leader Initials: JE | | | | | Void: | Sheet Subset: LIGHTING | Subset Sheets: LE6 of 12 | Sheet Number 258 |

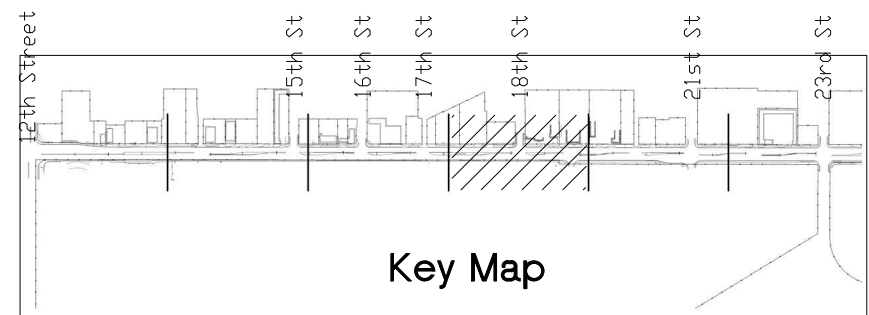
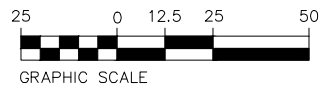


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GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
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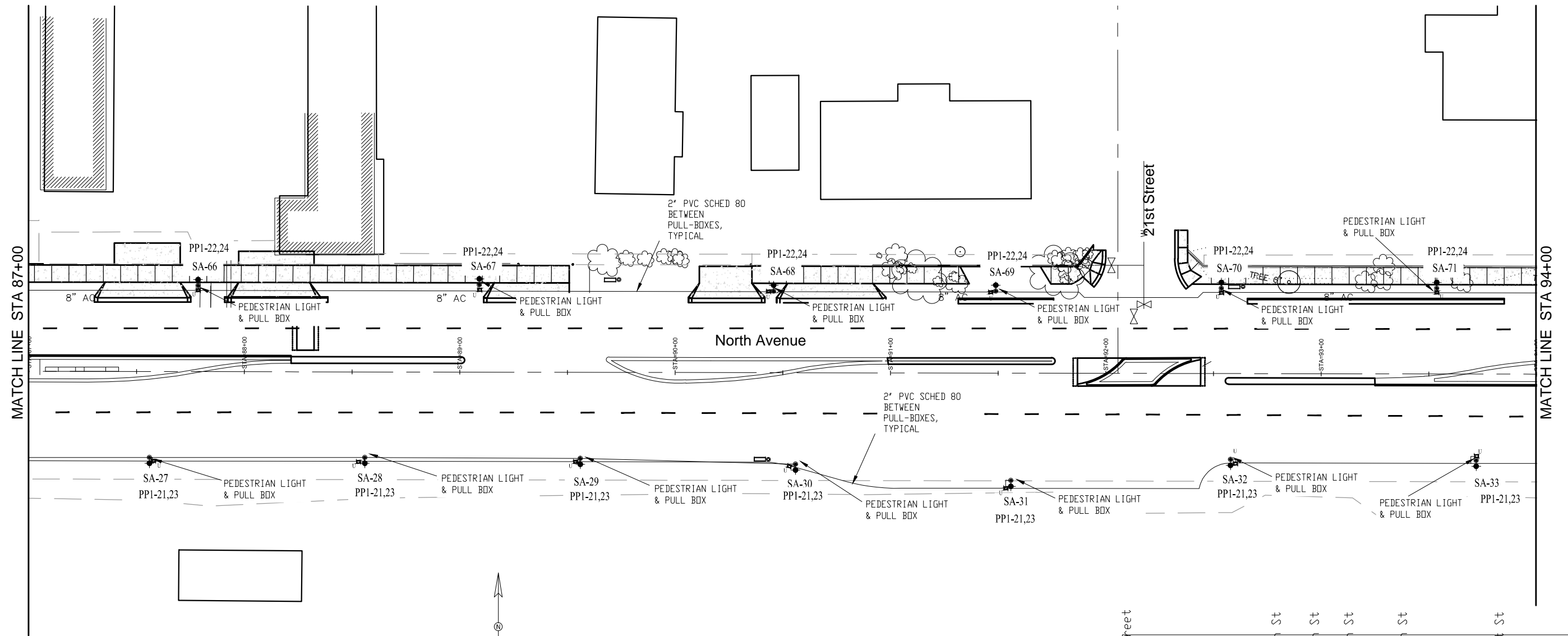


Key Map

| | | | | | | | | |
|---|-----------------|----------------------|--------|--|----------------|------------------------|--------------------------|------------------|
| Print Date: 10-15-15 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | Roadway Plan | | Project No./Code |
| File Name: | Date: | Comments: | Init.: | | No Revisions: | Designer: AJM | Structure Numbers | TCSP M555-029 |
| Horiz. Scale: 1:50 | 10/16/15 | Addendum on 10/16/15 | JE | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | Revised: | Detailer: AJM | | 19365 |
| Unit Information: City of GJ Unit Leader Initials: JE | | | | | Void: | Sheet Subset: LIGHTING | Subset Sheets: LE7 of 12 | Sheet Number |
| | | | | | | | | 259 |

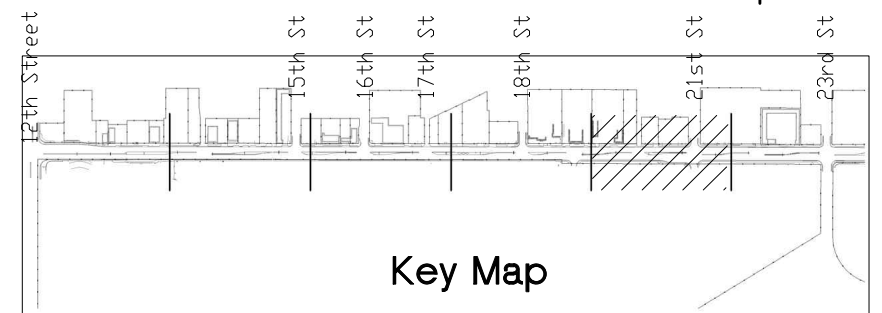
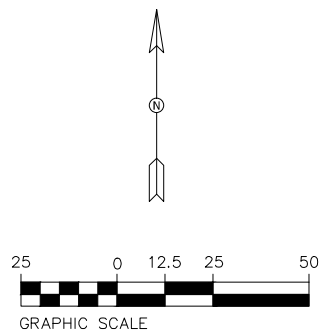


Know what's below.
Call before you dig.



GENERAL NOTES:

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|---|
| Print Date: 10-15-15 |
| File Name: |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: JE |

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |
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Colorado Department of Transportation

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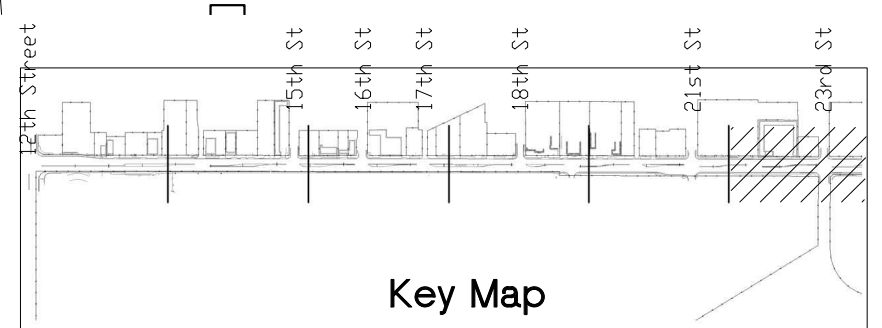
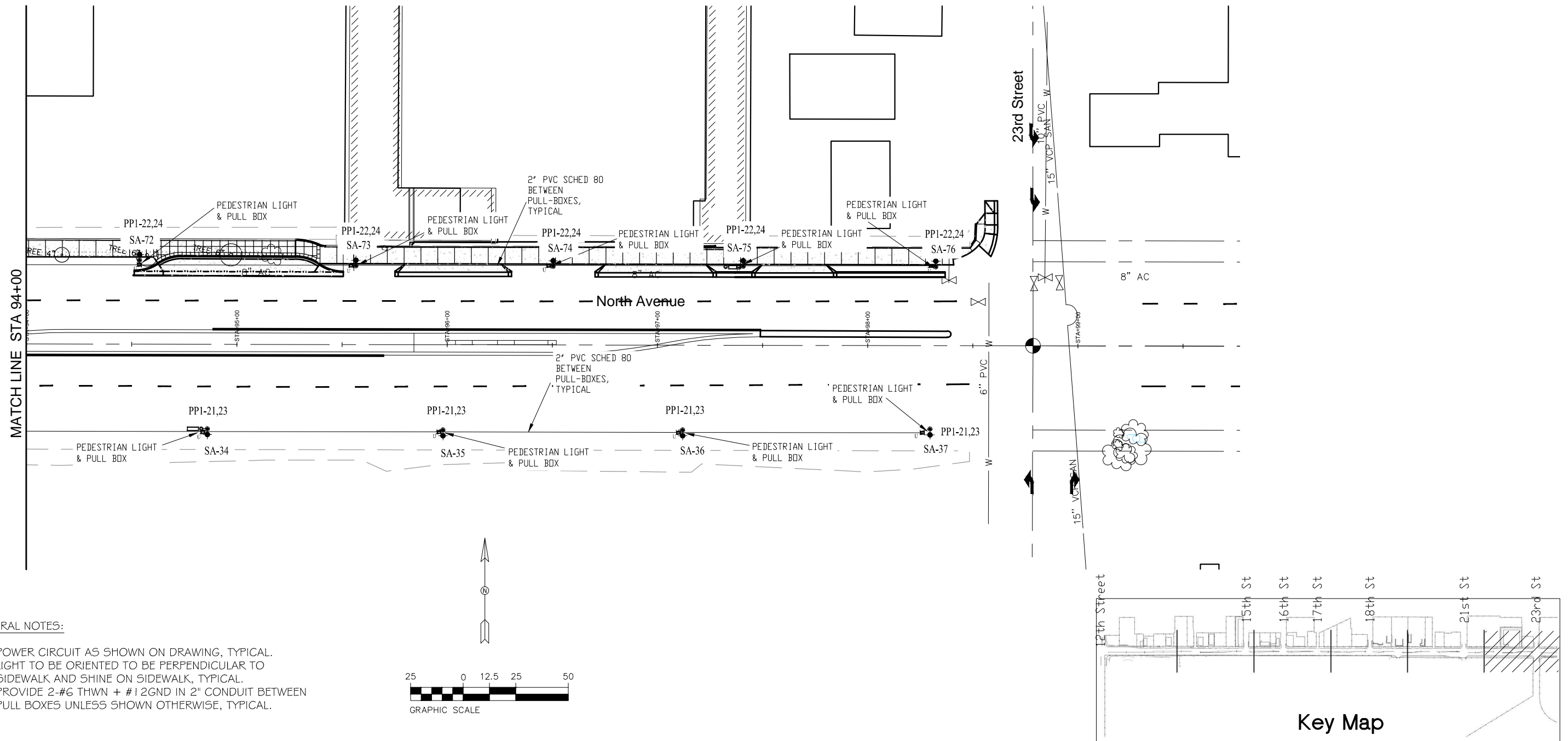
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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|-----------------------|--------------------------|
| Roadway Plan | |
| Designer: AJM | Structure Numbers |
| Detailer: AJM | |
| Sheet Subset: RD PLAN | Subset Sheets: LE8 of 12 |

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|-------------------------|
| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 260 |



Know what's below.
Call before you dig.



GENERAL NOTES:

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2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
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|---|
| Print Date: 10-15-15 |
| File Name: |
| Horiz. Scale: 1:50 Vert. Scale: NA |
| Unit Information: City of GJ Unit Leader Initials: JE |

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |
| | | |
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Colorado Department of Transportation

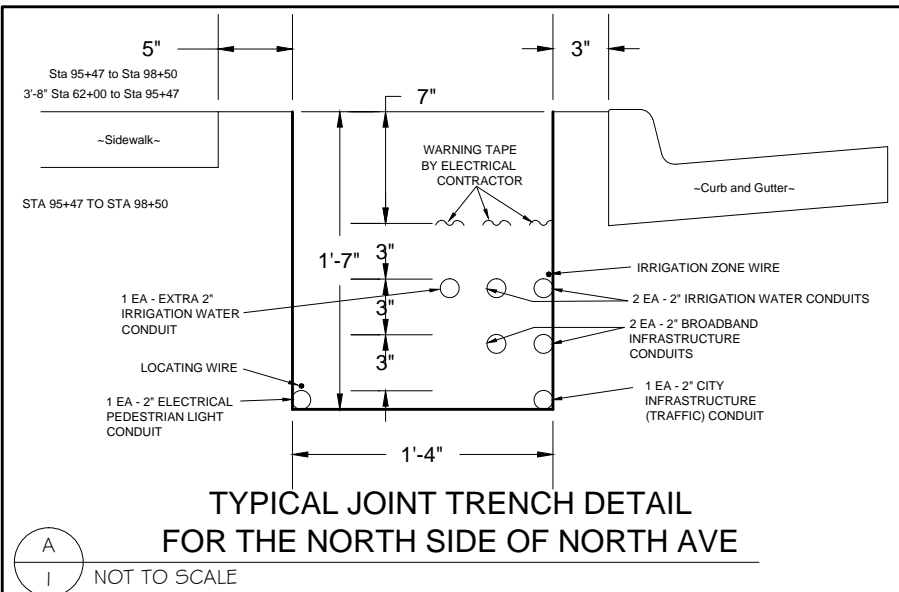
606 South 9th Street
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Region 3 RBB

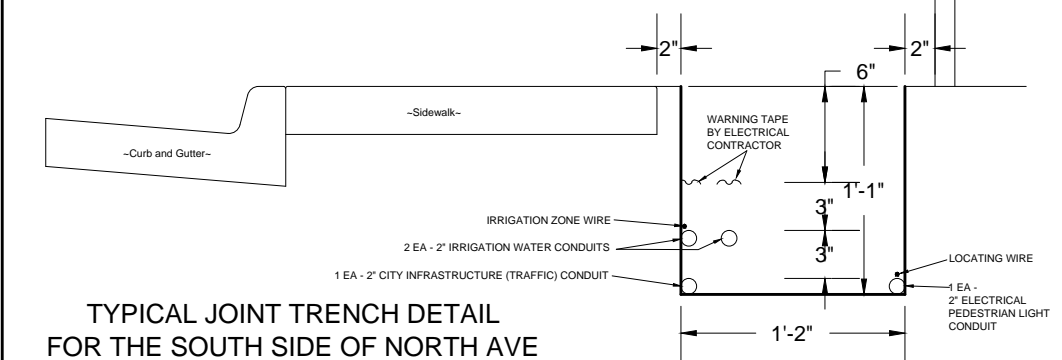
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| Void: |

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| Roadway Plan | |
| Designer: AJM | Structure Numbers |
| Detailer: AJM | |
| Sheet Subset: RD PLAN | Subset Sheets: LE9 of 12 |

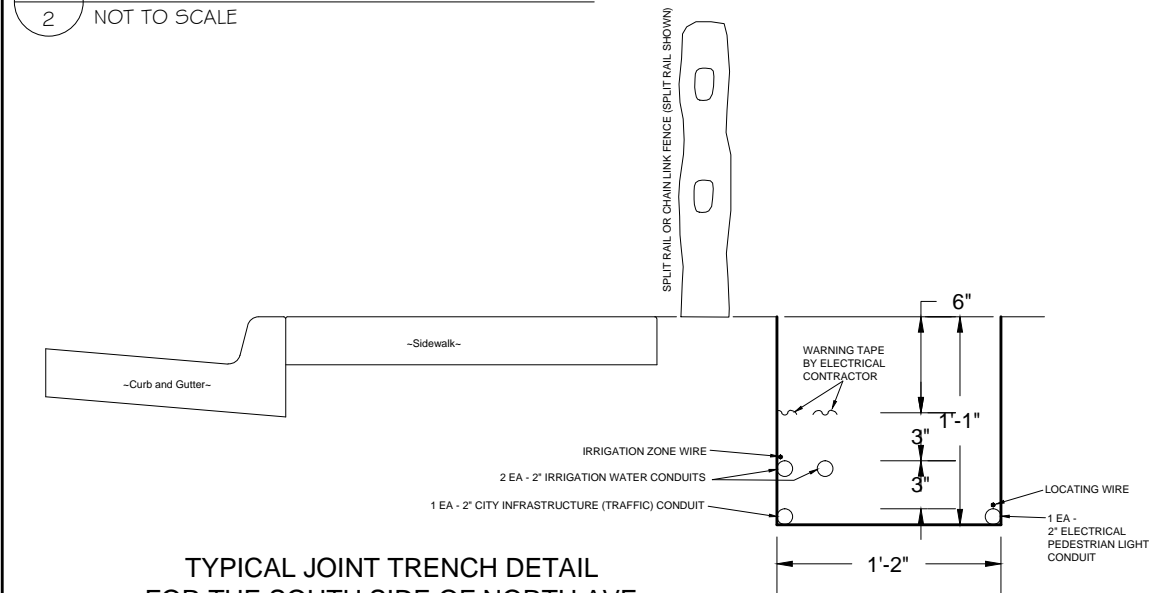
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| Project No./Code |
| TCSP M555-029 |
| 19365 |
| Sheet Number 261 |



A
1 NOT TO SCALE

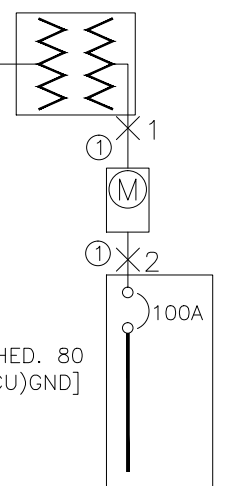


A
2 NOT TO SCALE



A
3 NOT TO SCALE

NEW PAD MOUNTED TRANSFORMER 50KVA 240/120 VOLT, 1PH BY XCEL



CABLE LEGEND
 ① 1 SET(S) [2\"/>

| TAG | AIC | LENGTH (FT) |
|-----|-------|-------------|
| X1 | 14881 | |
| X2 | 11831 | 10 |

A
4 NOT TO SCALE

GENERAL NOTES:

- IN AS MUCH AS DESIGN REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED. FIELD COORDINATION DURING CONSTRUCTION SERVICES IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.
- THE SERVING ELECTRICAL ASSOCIATION SHALL ADVISE THE OWNER/ENGINEER PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER.
- REFERENCE CIVIL, LANDSCAPE AND IRRIGATION DRAWING PLANS FOR COORDINATION AND LOCATION OF ALL UNDER GROUND SYSTEMS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES AS REQUIRED: REFERENCE CIVIL LANDSCAPE AND IRRIGATION DRAWINGS.
- ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWINGS, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
- ALL WIRE TO BE #12 UNLESS NOTED OTHERWISE.
- CONDUCTOR COUNT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL ENSURE THAT ANY AND ALL DEVICES AND EQUIPMENT ARE CIRCUITED PROPERLY. CONTRACTOR SHALL ENSURE THAT NO EQUIPMENT OR DEVICES ARE COMBINED OTHER THAN WHAT IS DEPICTED.
- FIELD VERIFY ALL DIMENSIONS, DO NOT SCALE DRAWINGS.
- COORDINATE INSTALLATION OF METER AND ELECTRICAL REQUIREMENTS WITH XCEL ENERGY.
- PEDESTAL MUST MEET ALL XCEL ENERGY REQUIREMENTS I.E. COLD SEQUENCE PADLOCK SLIP LATCH ON METER COVER, HOLD OPEN BAR ON METER HOOD.

| Panel Schedule PP1 | | Protection Information: | | Conductor Information: | |
|-------------------------------------|--|-------------------------|--|-------------------------|--|
| Circuit Information: | | Frame Size: 100A | | Conductor: 2-3 ga. | |
| Circuits: 16 UNSWITCHED/16 SWITCHED | | Load (A): 21 | | Neutral: 1-3 ga. | |
| Voltage: 120 / 240 | | NEMA: Type 1 | | Ground: 1-3 ga. | |
| System: 1Ø, | | OCPD Size: 100A | | Insulation: THWN | |
| Hertz: 60 | | 22 Kaic | | Material: Copper | |
| | | | | Raceway: 2 in. - PVC-80 | |

| UN-SWITCHED CIRCUIT DIRECTORY | | | | | | | | | | | | |
|-------------------------------|------------------|---------------|------------|----|----|----|----|------------|---------|---------------------|------------------|-----|
| Ct# | Load Description | OCPD Size / Ø | Load - kVA | | | L | CØ | Load - kVA | | OCPD Size / Ø | Load Description | Ct# |
| | | | AØ | BØ | CØ | | | AØ | BØ | | | |
| 1 | MAIN | 100A / 2 | | | | L1 | | 0.06 | 15A / 2 | CONTROL POWER | 2 | |
| 3 | --- | | | | | L2 | | | 60A / 2 | SWITCHED LC CONTROL | 4 | |
| 5 | | | | | | L1 | | | | --- | 6 | |
| 7 | | | | | | L2 | | | | | 8 | |
| 9 | | | | | | L1 | | | | | 10 | |
| 11 | | | | | | L2 | | | | | 12 | |
| 13 | | | | | | L1 | | | | | 14 | |
| 15 | | | | | | L2 | | | | | 16 | |

| SWITCHED CIRCUIT DIRECTORY | | | | | | | | | | | | |
|----------------------------|-------------------|---------------|------------|------|----|----|----|------------|------|---------------|-------------------|-----|
| Ct# | Load Description | OCPD Size / Ø | Load - kVA | | | L | CØ | Load - kVA | | OCPD Size / Ø | Load Description | Ct# |
| | | | AØ | BØ | CØ | | | AØ | BØ | | | |
| 17 | SW SA-1 TO SA-18 | 20A / 2 | 0.6 | | | L1 | | 0.63 | 0.63 | 20A / 2 | NW SA-38 TO SA-57 | 18 |
| 19 | --- | | | 0.6 | | L2 | | 0.63 | | | --- | 20 |
| 21 | SE SA-19 TO SA-37 | 20A / 2 | 0.63 | | | L1 | | 0.63 | 0.63 | 20A / 2 | NE SA-58 TO SA-76 | 22 |
| 23 | --- | | | 0.63 | | L2 | | 0.63 | | | --- | 24 |
| 25 | | | | | | L1 | | | | | | 26 |
| 27 | | | | | | L2 | | | | | | 28 |
| 29 | | | | | | L1 | | | | | | 30 |
| 31 | | | | | | L2 | | | | | | 32 |

| Phase Totals - kVA: | | Load Balance | | Load Totals | |
|---------------------|------|--------------|---------|-------------|-------|
| A | 1.22 | Phase A: | 21.12 A | Amps: | 21.12 |
| B | 1.22 | Phase B: | 20.62 A | kVA: | 5 |



Know what's below.
Call before you dig.

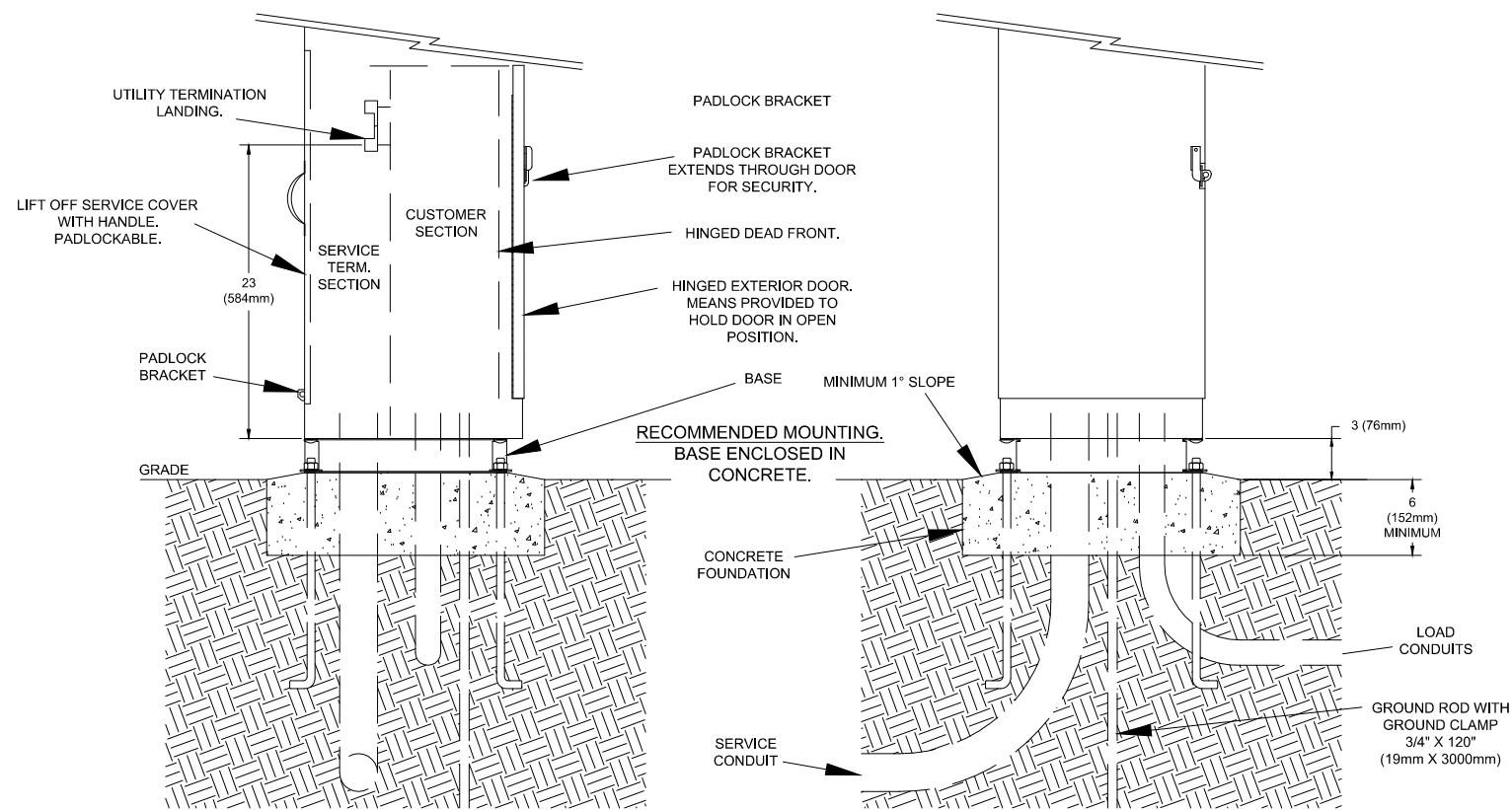
Print Date: 10-15-15
 File Name:
 Horiz. Scale: AS SHOWN Vert. Scale: 1
 Unit Information: City of GJ Unit Leader Initials: JE
 ACM CONSULTING AND ENGINEERING
 PH: (970) 245-7292
 EMAIL: JOELMRTINEZ@GMAIL.COM

| Sheet Revisions | | |
|-----------------|----------------------|-------|
| Date: | Comments | Init. |
| 10/16/15 | ADDENDUM ON 10/16/15 | JE |

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 Region 3 RBB

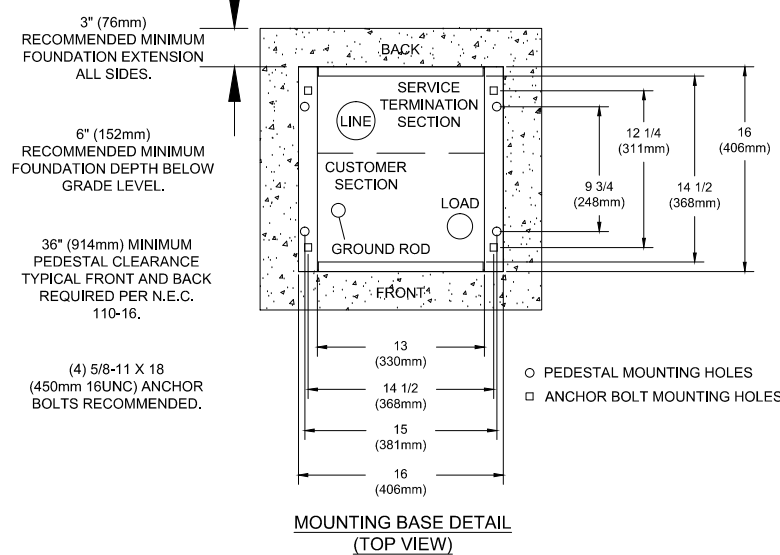
| AS CONSTRUCTED | ELECTRICAL DETAILS, ONE-LINE | |
|----------------|------------------------------|------------------------|
| No Revisions: | Designer: AJM | Structure Numbers |
| Revised: | Detailer: AJM | Sheet Subset: LIGHTING |
| Void: | Subset Sheets: LE10 of 12 | |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **262**

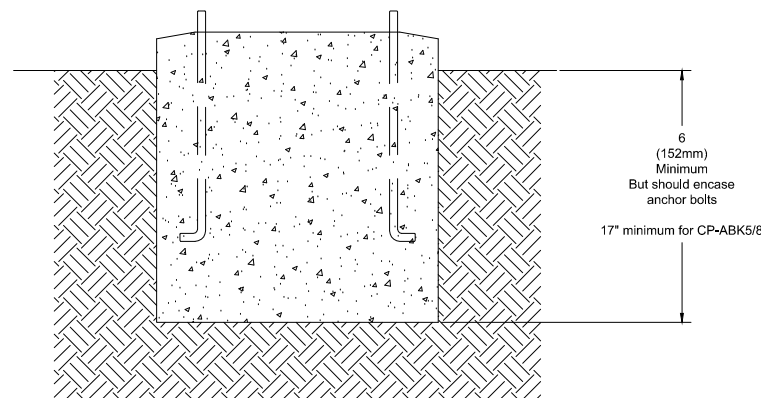


SIDE VIEW

FRONT VIEW



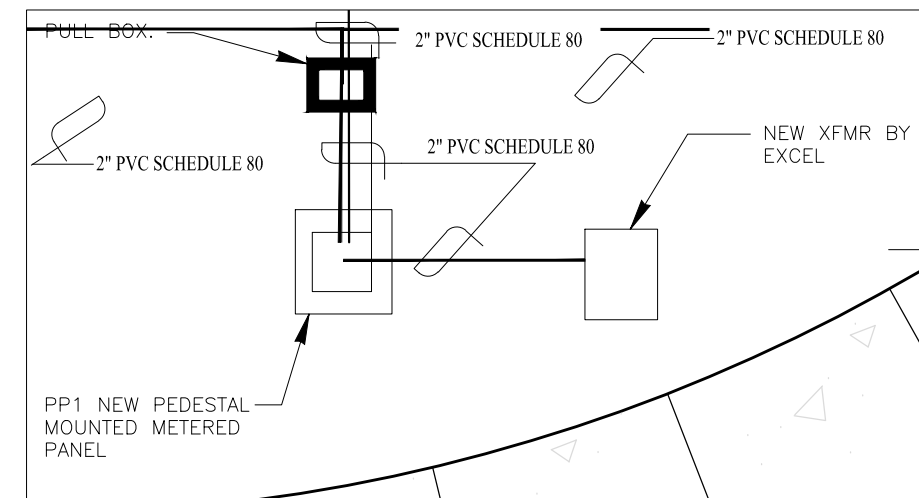
MOUNTING BASE DETAIL (TOP VIEW)



OPTIONAL MOUNTING NO BASE, MOUNT DIRECTLY ON FOUNDATION.

NOTES

1. CONTROL CABINET SHALL BE U/L LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
2. CONSTRUCTION SHALL BE NEMA 3R, 12 GA. A60 STEEL. POWDER COATED MINT GREEN WITH PHOTO ELECTRIC CELL IN SERVICE CABINET. ELECTRICAL CONTRACTOR TO PROVIDE PHOTOCELL.
3. VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
4. SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY. WHEN THE SERVING UTILITY PROVIDES BOTH METERED AND UNMETERED CIRCUITS, A SEPARATE BUS SHALL BE PROVIDED FOR EACH CIRCUIT. THE METER AREA SHALL HAVE A SEALING, LOCKABLE, RAIN TIGHT COVER THAT CAN BE REMOVED WITHOUT THE USE OF TOOLS.
5. SERVICE EQUIPMENT SHALL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
6. THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING. THE PADLOCK HOLE SHALL BE A MINIMUM DIAMETER OF 11mm.
7. ALL TERMINALS FOR INCOMING SERVICE CONDUCTORS SHALL BE COMPATIBLE WITH EITHER COPPER OR ALUMINUM CONDUCTORS SIZED TO SUIT THE CONDUCTORS SHOWN ON THE PLAN. TERMINAL LUGS SHALL BE COPPER OR TIN-PLATED ALUMINUM. SOLID NEUTRAL TERMINAL STRIP SHALL BE RATED 125A UNLESS OTHERWISE SPECIFIED AND FOR USE WITH COPPER OR ALUMINUM CONDUCTORS. THE TERMINAL SHOULD INCLUDE BUT NOT BE LIMITED TO:
 - A) INCOMING TERMINALS (LANDING LUGS)
 - B) NEUTRAL LUGS
 - C) SOLID NEUTRAL TERMINAL STRIP.
 - D) TERMINAL STRIPS FOR CONDUCTORS WITHIN THE ENCLOSURE.
8. AT LEAST 4 STANDARD SINGLE POLE 240V AND 1 SINGLE POLE 120 CIRCUIT BREAKER SPACES (20mm NOMINAL) SHALL BE PROVIDED FOR BRANCH CIRCUITS. CIRCUIT BREAKER INTERIORS SHALL BE COPPER. INTERIORS SHALL ACCEPT PLUG-IN OR CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS.
9. PLUG-IN CIRCUIT BREAKERS MAY BE MOUNTED IN THE VERTICAL OR HORIZONTAL POSITION. CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS SHALL BE MOUNTED IN THE VERTICAL POSITION.
10. FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
11. PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
12. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
13. FOUNDATION SHALL EXTEND 50mm MINIMUM BEYOND EDGE OF ENCLOSURE.



B
2 TYPICAL LIGHTING CONTROL CENTER AND POWER PEDESTAL(SPECIAL) LOCATION PLAN NOT TO SCALE

B
1 TYPICAL POWER PEDESTAL/LIGHTING CONTROL CENTER (SPECIAL) PLAN NOT TO SCALE



Know what's below.
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Print Date: 10-15-15

File Name:

Horiz. Scale: AS SHOWN

Vert. Scale: 1

Unit Information: City of GJ Unit Leader Initials: JE

ACM CONSULTING AND ENGINEERING

PH: (970) 245-7292

EMAIL: JOELMRTINEZ@GMAIL.COM

Sheet Revisions

| Date: | Comments | Init. |
|----------|----------------------|-------|
| 10/16/15 | Addendum on 10/16/15 | JE |
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Colorado Department of Transportation



Region 3

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Grand Junction, CO, 81501
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RBB

AS CONSTRUCTED

No Revisions:

Revised:

Void:

POWER/LIGHTING PEDESTAL CONTROL CENTER DETAILS

Designer: AJM

Detailer: AJM

Sheet Subset: LIGHTING

Structure Numbers

Subset Sheets: LE11 of 12

Project No./Code

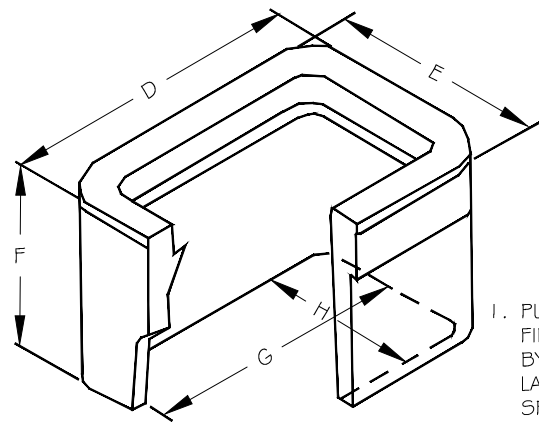
TCSP M555-029

19365

Sheet Number **263**



Know what's below.
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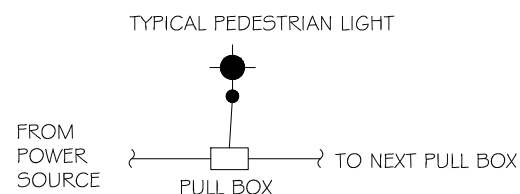


UTILITY BOX DIMENSIONS

- A 18-1/8"
- B 11-1/4"
- C 1-1/4"
- D 20-1/2"
- E 13-3/8"
- F 12"
- G 15-3/4"
- H 8-7/8"

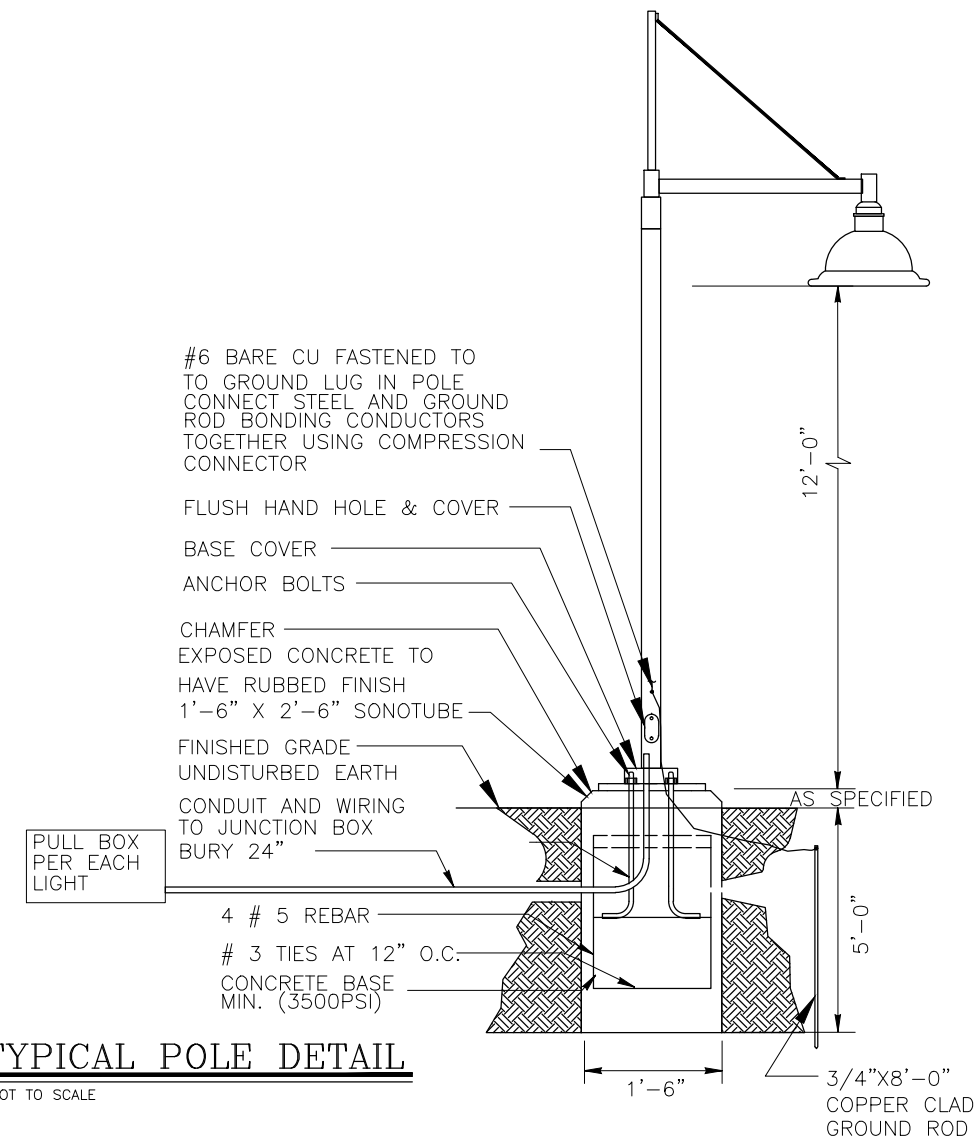
- PULL BOXES, PULL BOX COVERS AND EXTENSIONS SHALL BE MADE OF FIBERGLASS REINFORCED POLYMER CONCRETE. PULL BOXES SHALL BE VERIFIED BY A 3RD PARTY NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY AS MEETING ALL TEST PROVISIONS OF THE LATEST ANSI/SCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING. CERTIFICATION DOCUMENTS SHALL BE SUBMITTED WITH MATERIALS SUBMITTALS. THE PULL BOX SHALL HAVE A DETACHABLE COVER WITH A SKID RESISTANT SURFACE AND HAVE THE WORDS ELECTRICAL CAST INTO THE SURFACE. PAINTING THE WORDS SHALL NOT BE ACCEPTED. MARKINGS SHOWING THE TIER 22 RATING MUST BE LABELED OR STENCILED ON THE INSIDE AND OUTSIDE OF THE BOX AND THE ON THE UNDER SIDE OF THE COVER. THE COVER SHALL BE ATTACHED TO THE PULL BOX BODY BY MEANS OF A MINIMUM 3/8 - 7 UNIFIED NATIONAL COURSE (UNC) STAINLESS STEEL PENTA HEAD BOLTS AND SHALL HAVE TWO LIFT SLOTS TO AID IN THE REMOVAL OF THE LID.
- PULL SLOTS SHALL BE RATED FOR A MINIMUM PULL OUT OF 3,000 POUNDS. MAGNESIUM CHLORIDE TESTS SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST ANSI/SCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING.

C UTILITY BOX DETAIL
1 NOT TO SCALE



- EACH LIGHT LOCATION TO HAVE PULL BOX

C UTILITY BOX CONNECTION DETAIL
2 NOT TO SCALE



C TYPICAL POLE DETAIL
3 NOT TO SCALE

POLE DETAIL NOTES:

- ORDER STEINBERG URBAN LINE 5" ROUND STRAIGHT STEEL POLES. OBTAIN POLE MOUNTING TEMPLATE PATTERN FROM MANUFACTURER PRIOR TO ROUGH-IN.
- PROVIDE EACH PEDESTRIAN LIGHT INSTALLED IN THIS CONTRACT WITH J-BOX.

| TYPE | MANUFACTURER MODEL NUMBER | APPROVAL | VOLTAGE MOUNTING # OF LAMPS | BALLAST LAMPE TYPE LAMP CAT. # | DESCRIPTION |
|------|---|--------------------|-----------------------------------|--------------------------------------|--|
| SA | STERNBERG LIGHTING 1A-1527FLED-SM-SV1-4ARC- 35(00)K-T2-F-MDL03-BK | OWNER REQUESTED | POLE 1 | ELECTRONIC LED 66 W | PEDESTRIAN LUMINAIRE, ARM MOUNTED, LED, CUTOFF, ORDER POLE SO THAT LAMP HEIGHT IS 12' AFG MEASURED AT BOTTOM OF LUMINAIRE. ORDER WITH BRD ARM COLOR OF POLE AND ARM TO MATCH POLE. |

Print Date: 10-15-15
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 Unit Information: City of GJ Unit Leader Initials: JE
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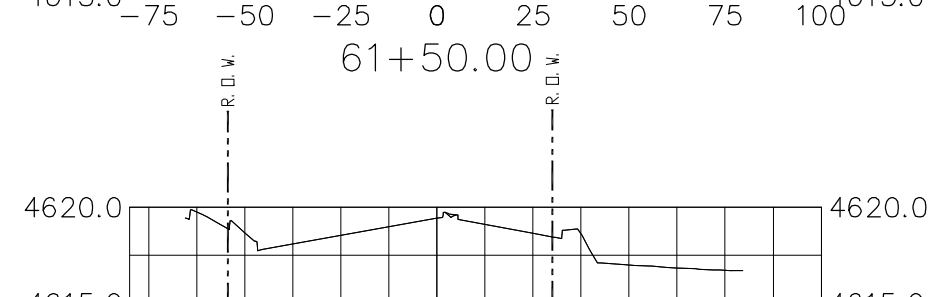
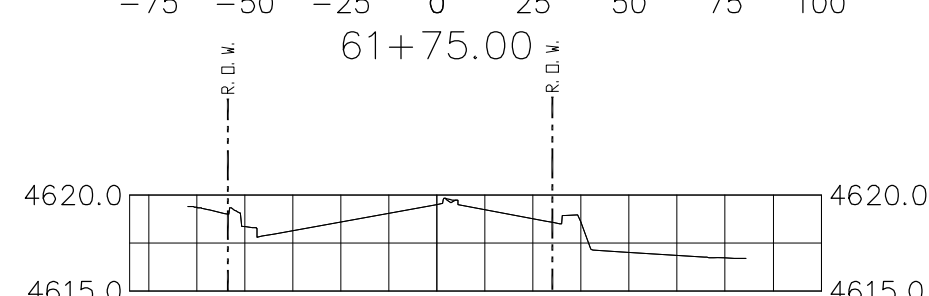
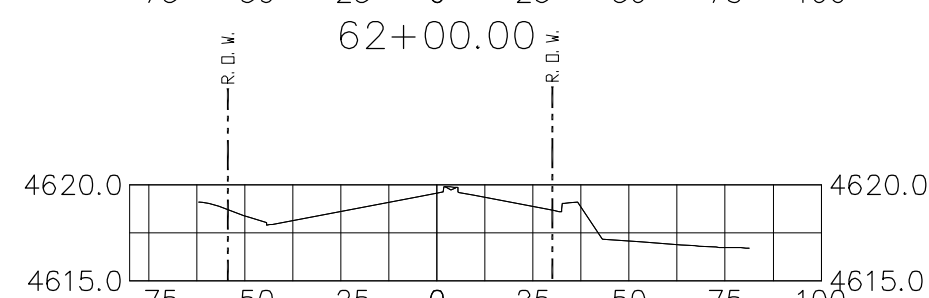
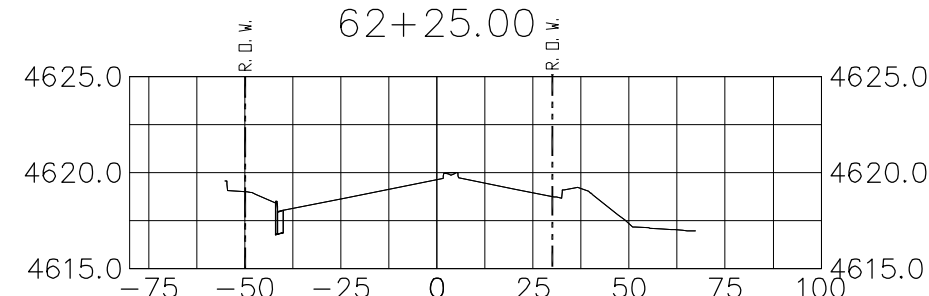
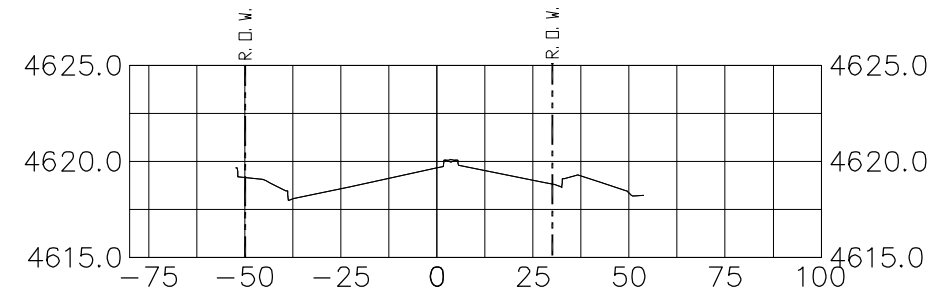
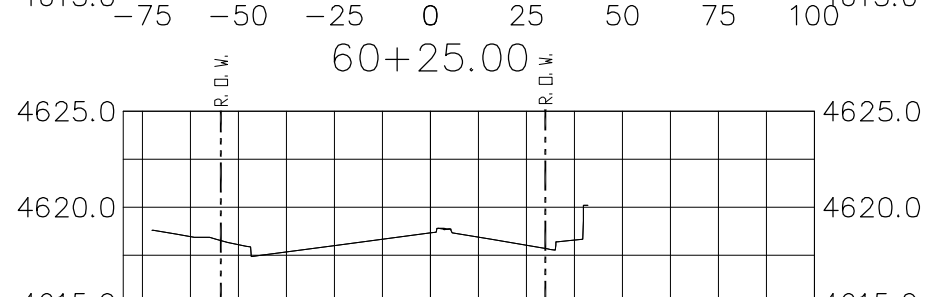
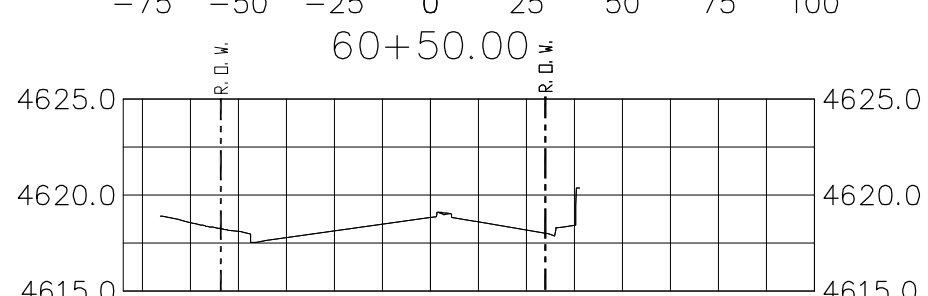
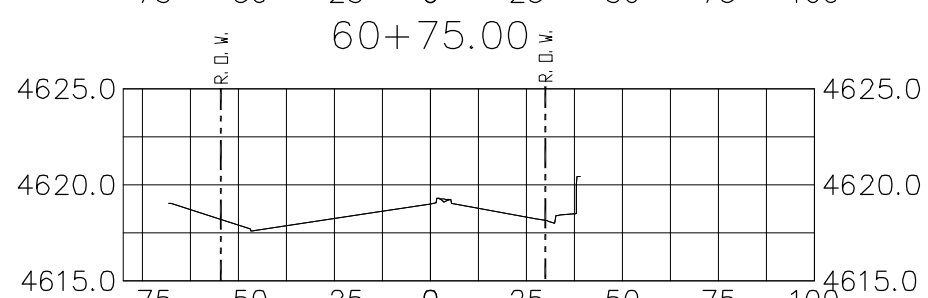
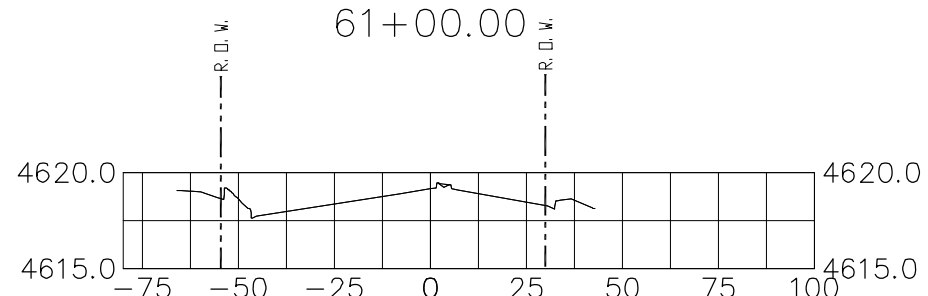
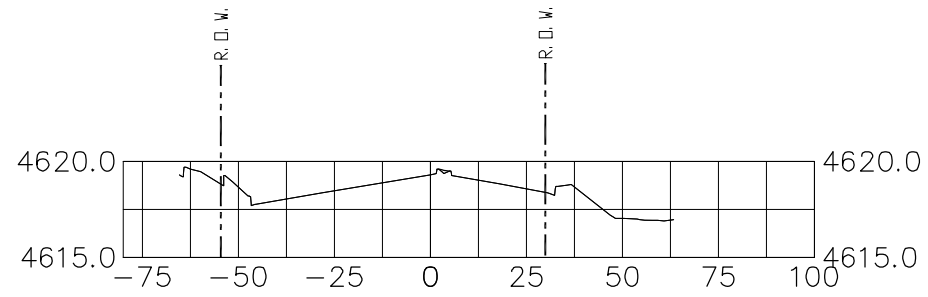
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| Date: | Comments | Init. |
| 10/16/15 | Addendum on 10/16/15 | JE |

Colorado Department of Transportation
 606 South 9th Street
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 Region 3 RBB

| AS CONSTRUCTED | LIGHTING DETAILS, SCHEDULES | |
|----------------|-----------------------------|------------------------|
| No Revisions: | Designer: AJM | Structure Numbers |
| Revised: | Detailer: AJM | Sheet Subset: LIGHTING |
| Void: | Subset Sheets: LE12 of 12 | |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **264**

N:\Cadd\John Smith\Projects\NORTH AVE\ACAD Drawings\roadway plans with city std dwy cuts.dwg, 8/20/2015 4:10:49 PM



Print Date: AT LEFT
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 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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Colorado Department of Transportation

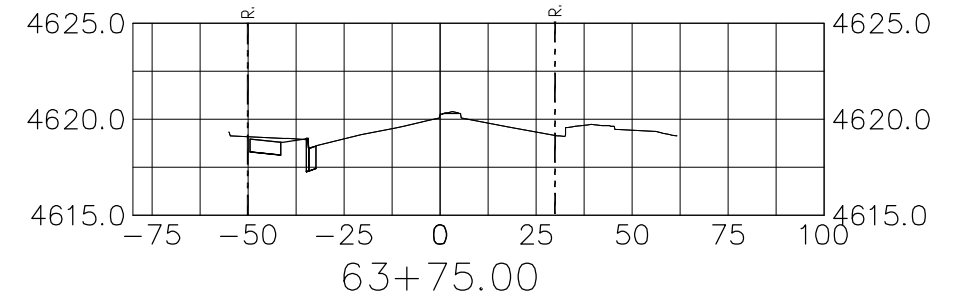
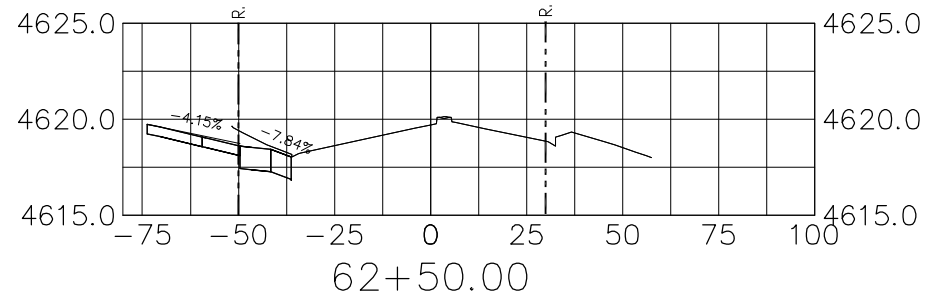
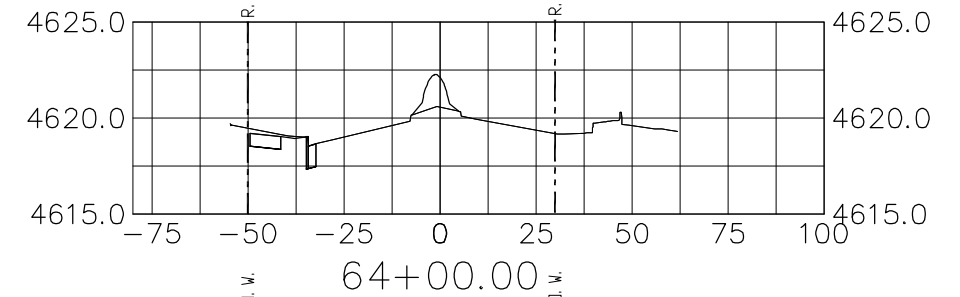
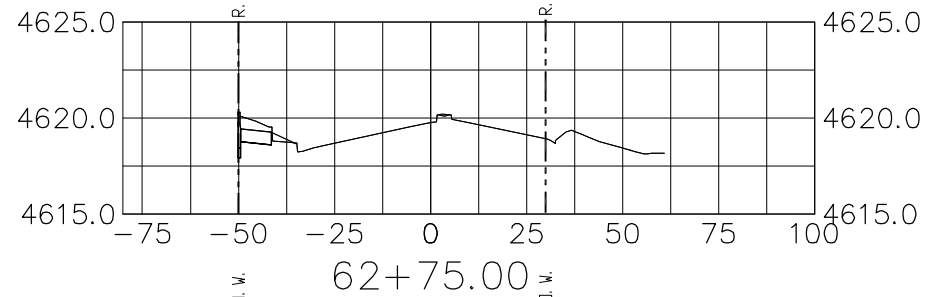
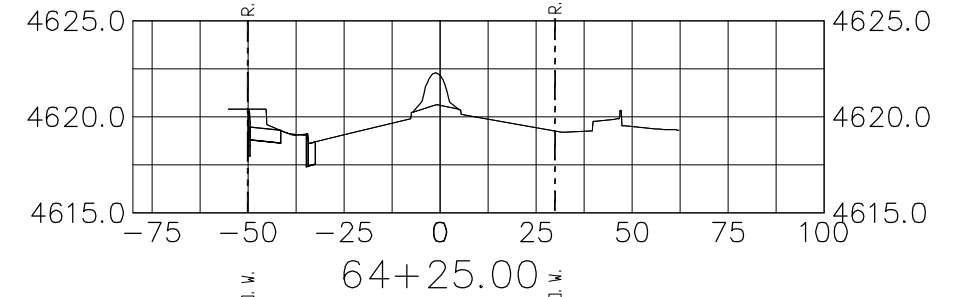
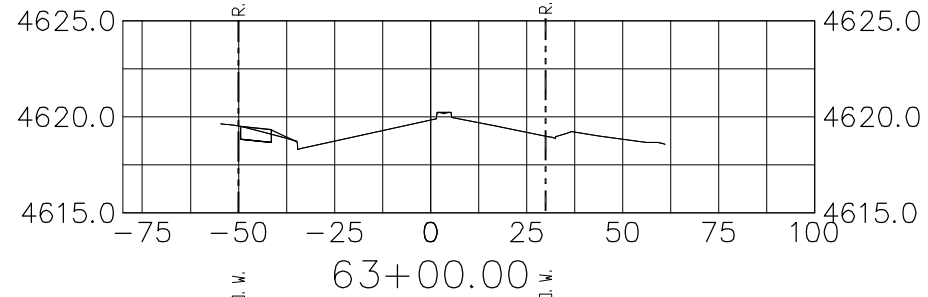
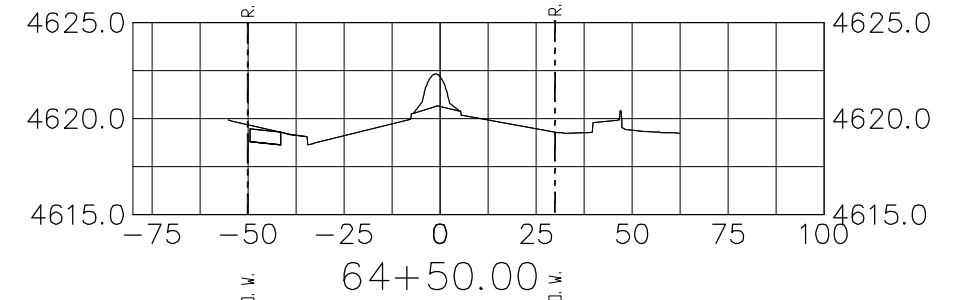
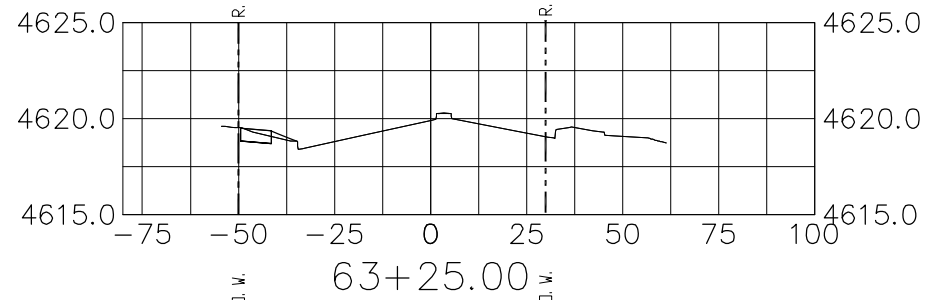
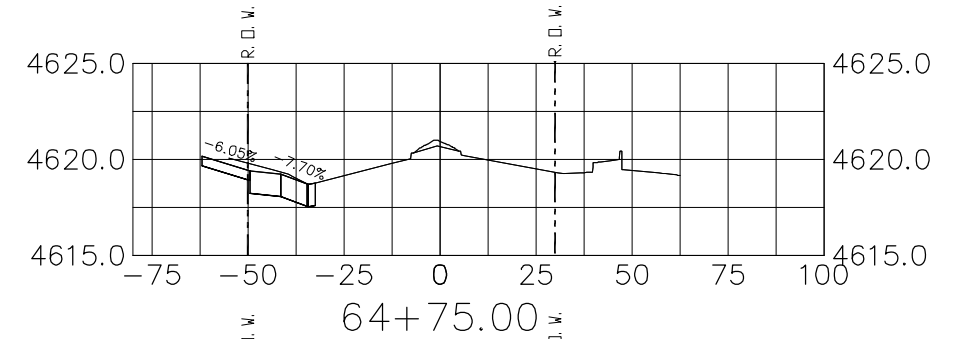
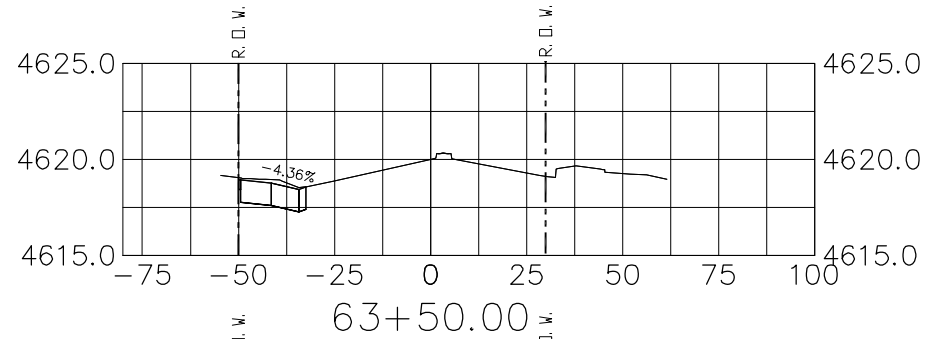
 606 South 9th Street
 Grand Junction, CO, 81501
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Roadway Cross Sections
 Designer: John Smith Structure Numbers
 Detailer: John Smith
 Sheet Subset: Subset Sheets: 1 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 265

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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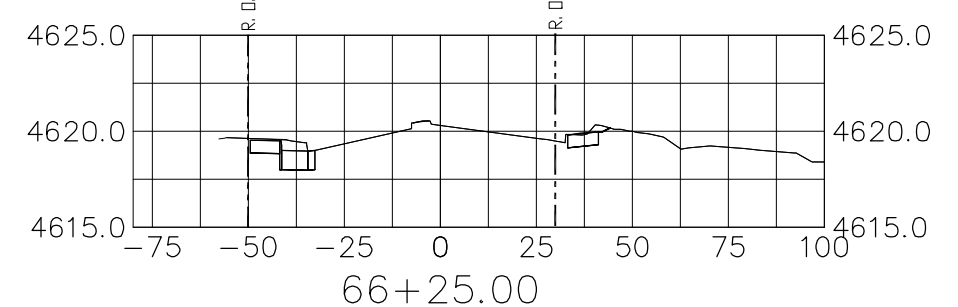
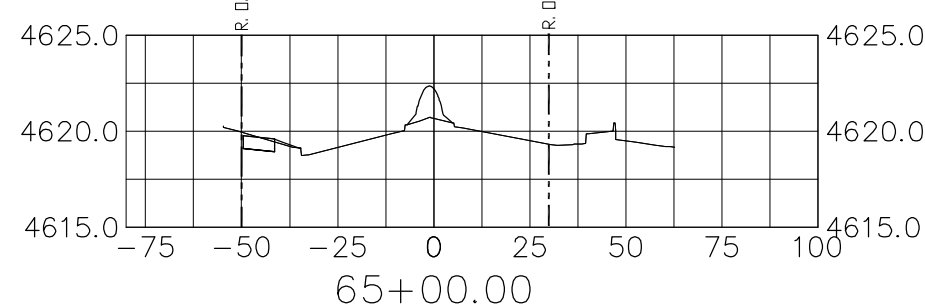
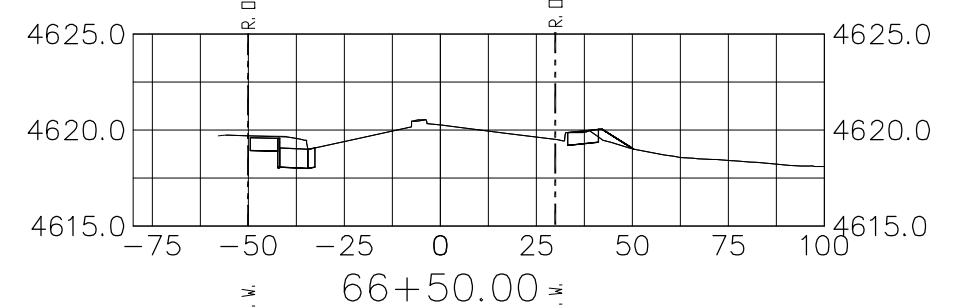
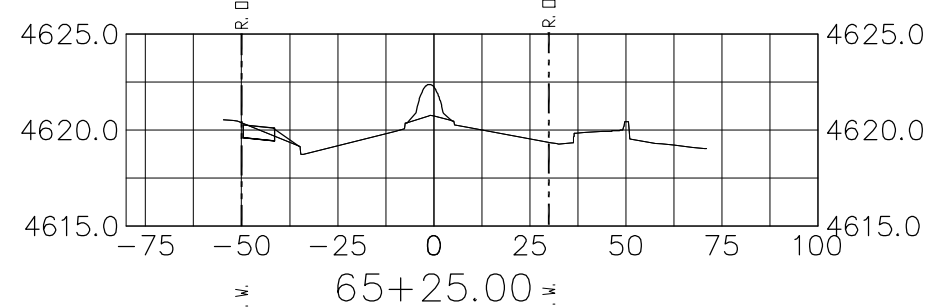
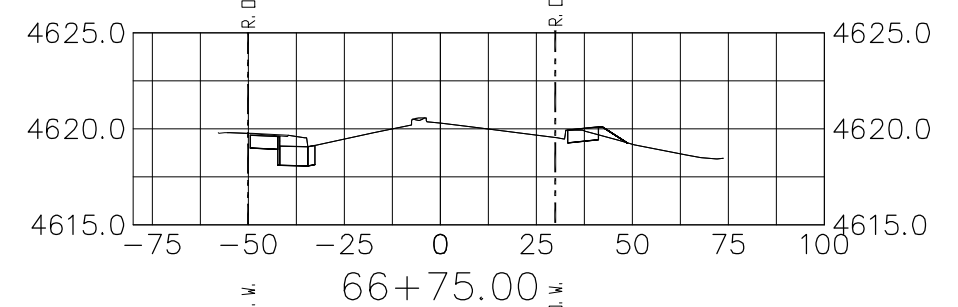
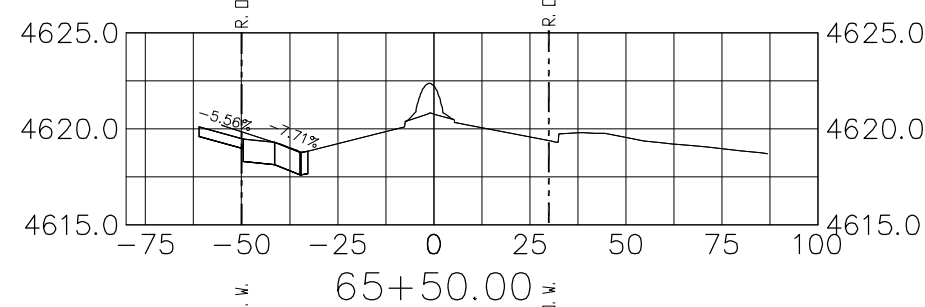
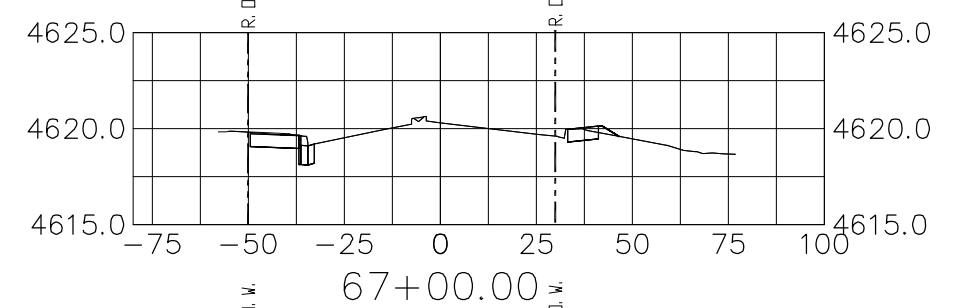
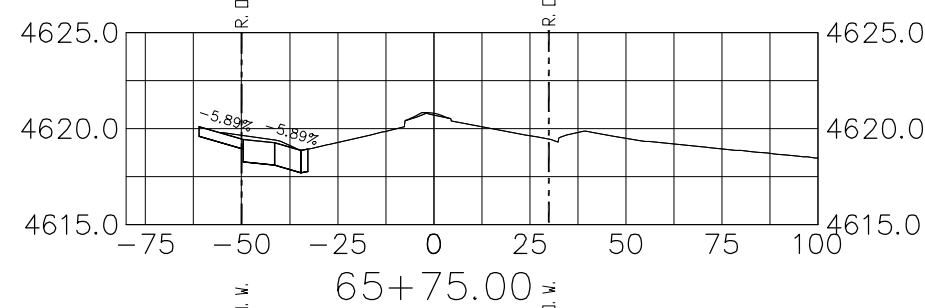
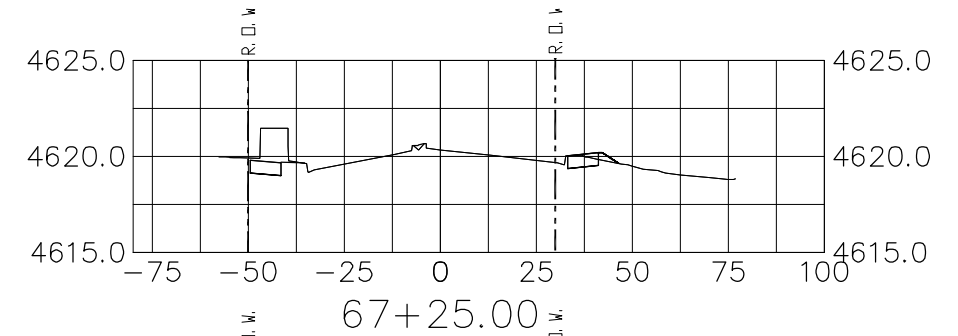
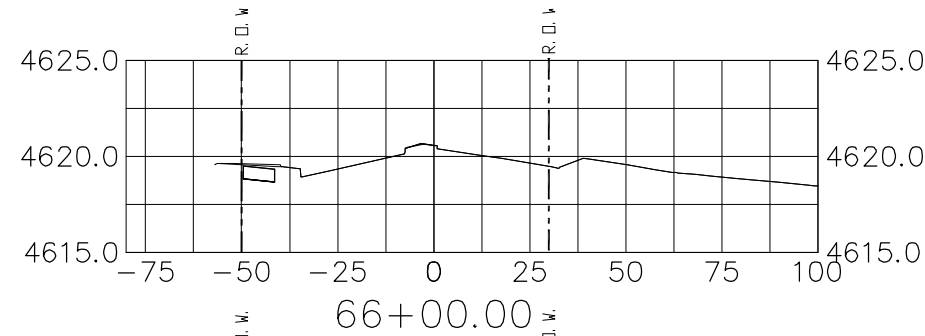
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

| As Constructed |
|----------------|
| No Revisions: |
| Revised: |
| Void: |

| Roadway Cross Sections | | |
|------------------------|-------------------|---------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 2 of 16 |

| Project No./Code |
|-------------------------|
| TCSP M555-029 |
| 19365 |
| Sheet Number 266 |

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Print Date: AT LEFT
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 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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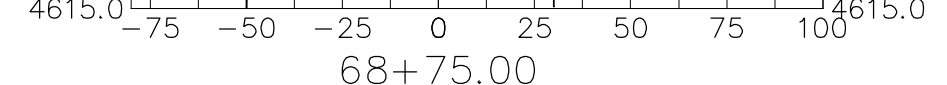
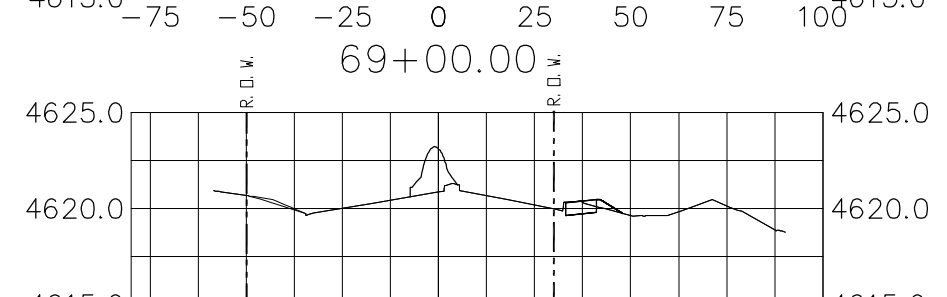
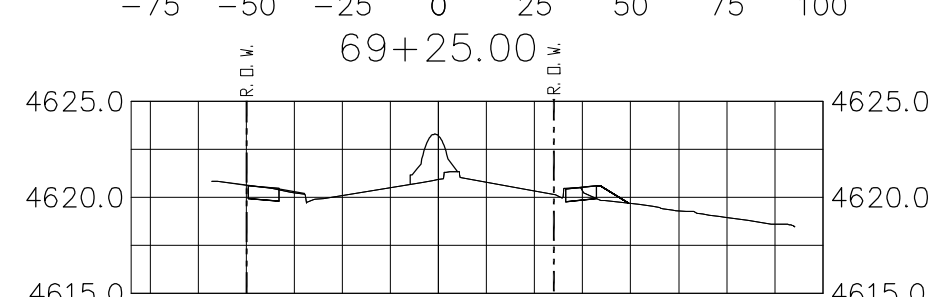
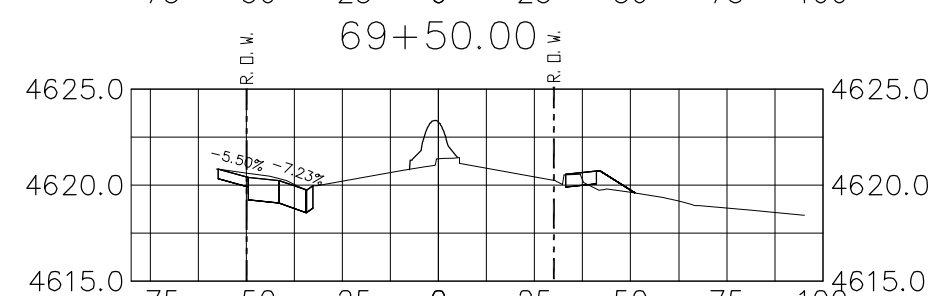
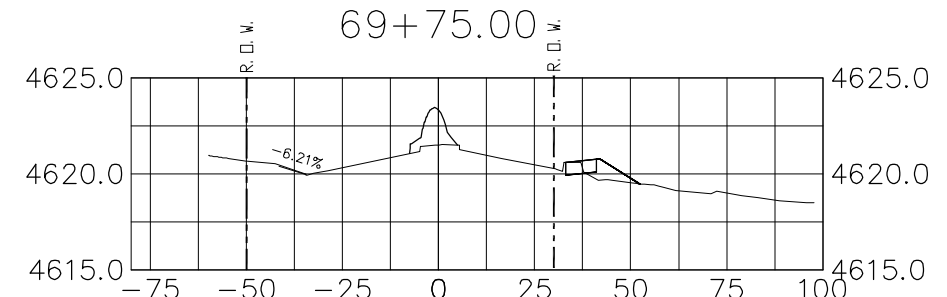
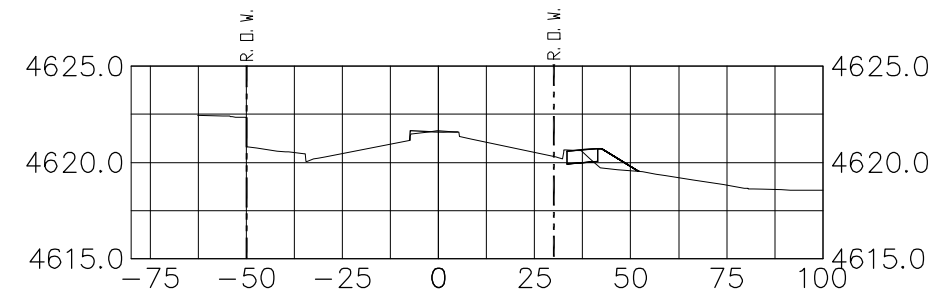
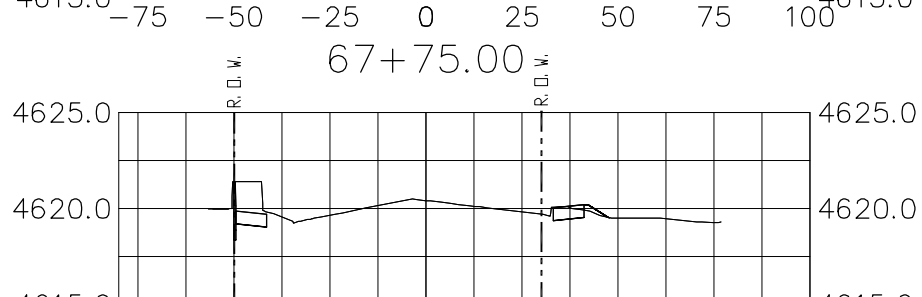
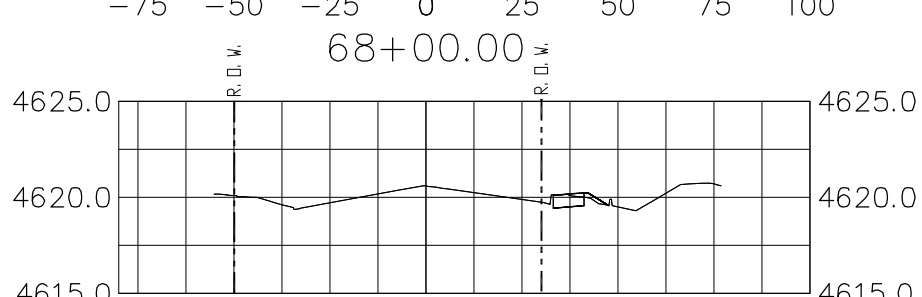
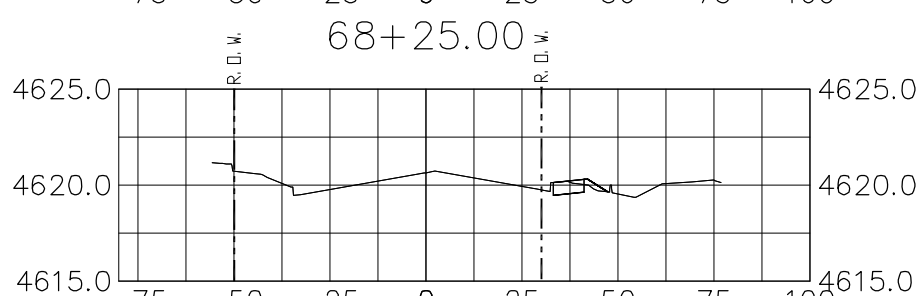
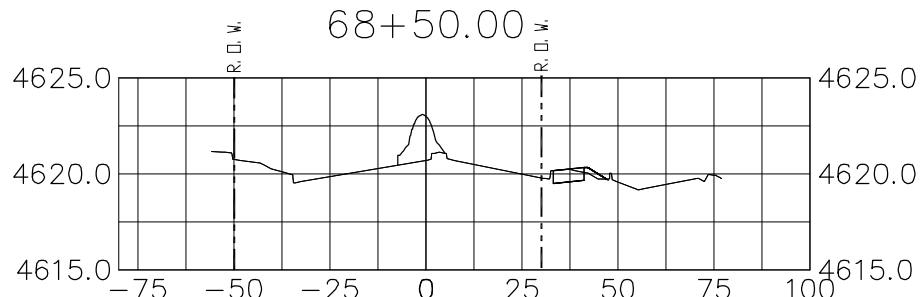
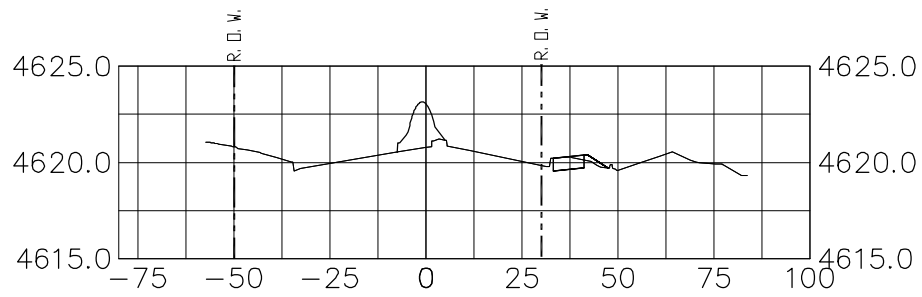
Colorado Department of Transportation
 606 South 9th Street
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 Region 3 RBB

| As Constructed |
|----------------|
| No Revisions: |
| Revised: |
| Void: |

| Roadway Cross Sections | | |
|------------------------|-------------------|---------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 3 of 16 |

| Project No./Code |
|-------------------------|
| TCSP M555-029 |
| 19365 |
| Sheet Number 267 |


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 Unit Information: City of GJ Unit Leader Initials: DPJ

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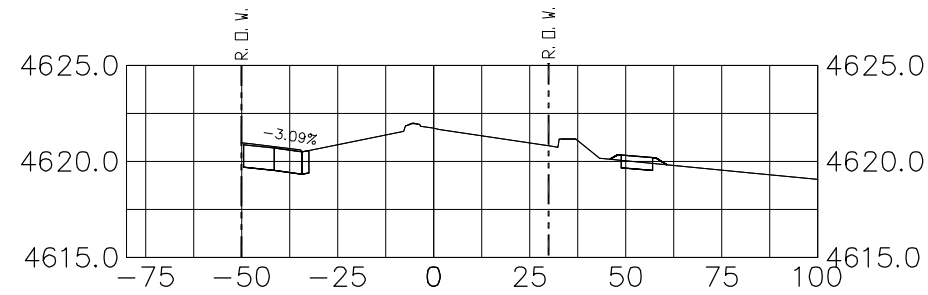
Colorado Department of Transportation

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 Grand Junction, CO, 81501
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 Region 3 RBB

As Constructed
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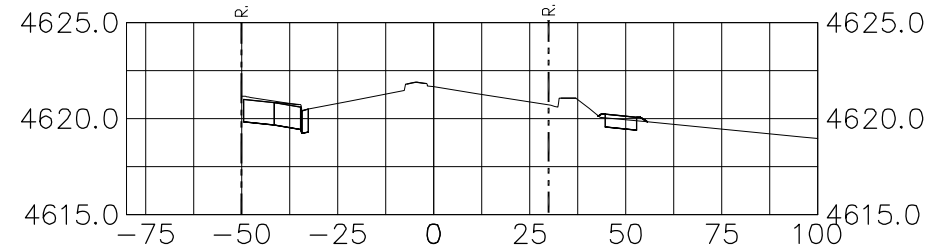
Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 4 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **268**

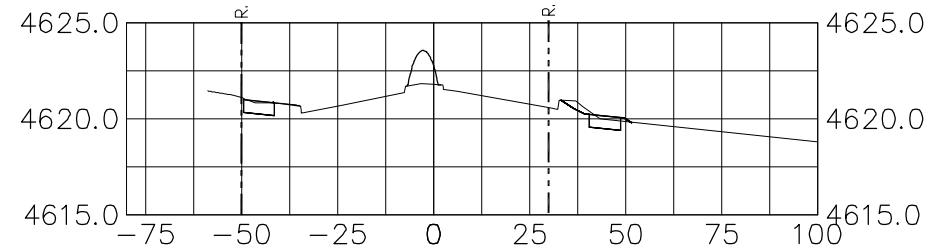
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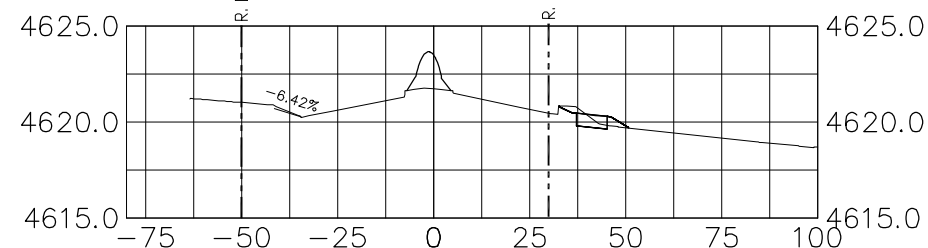
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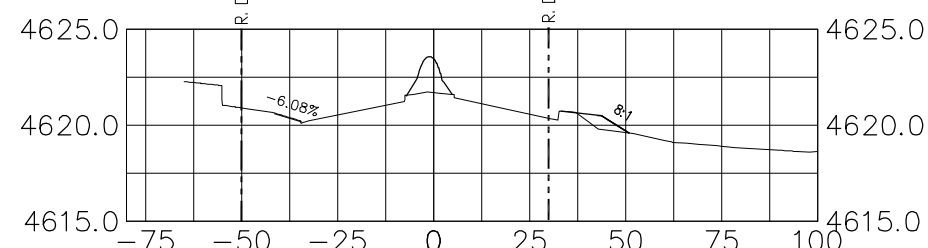
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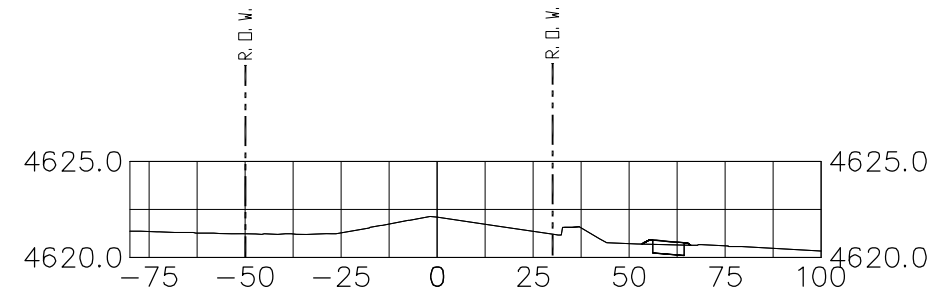
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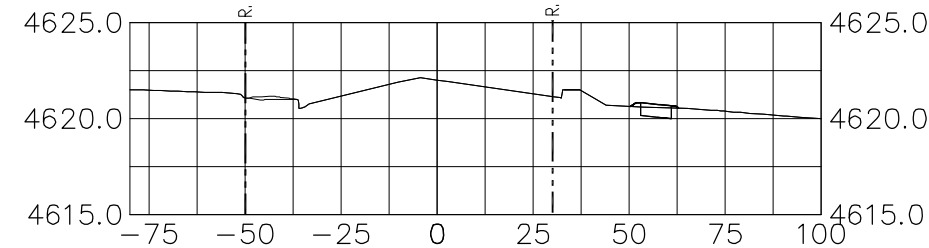
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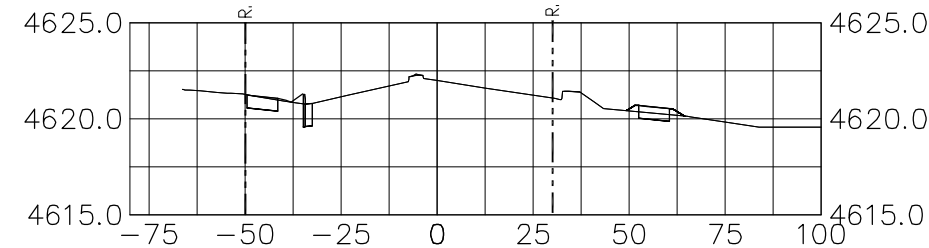
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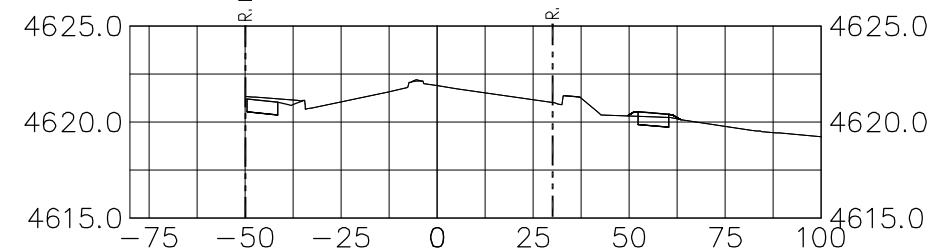
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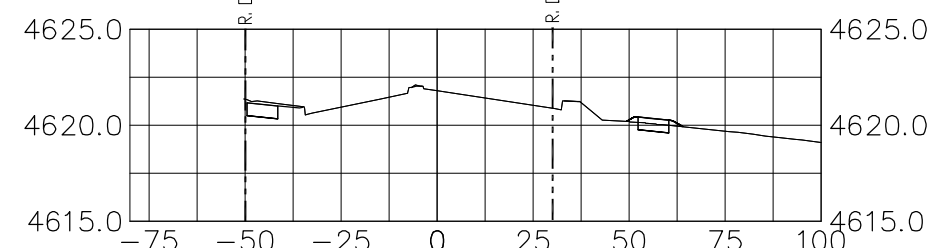
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71+75.00



71+50.00



71+25.00

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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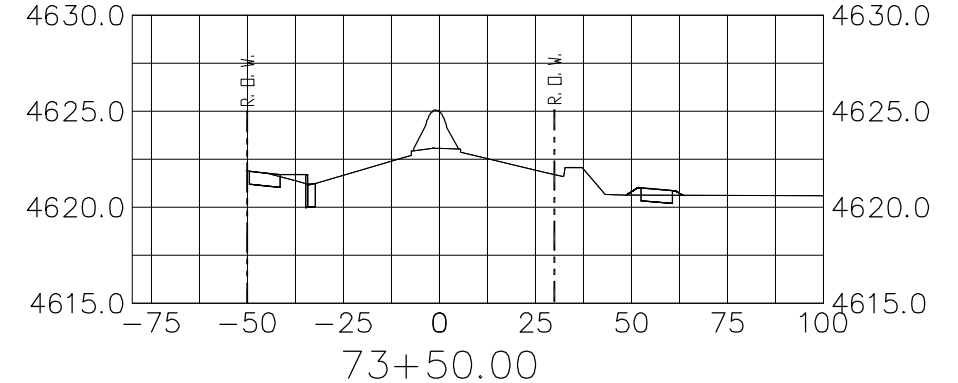
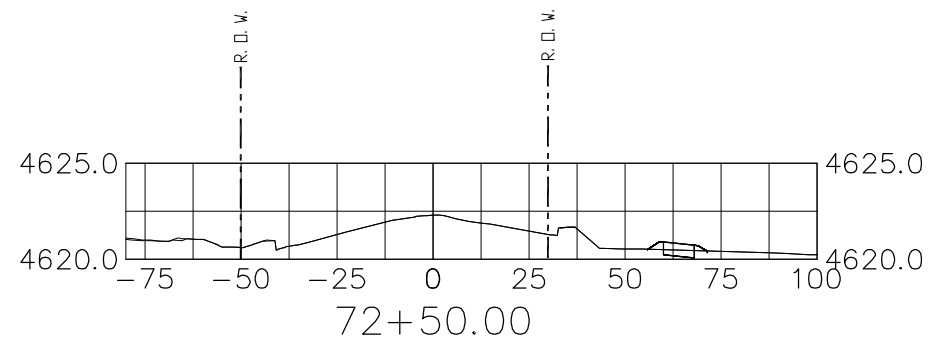
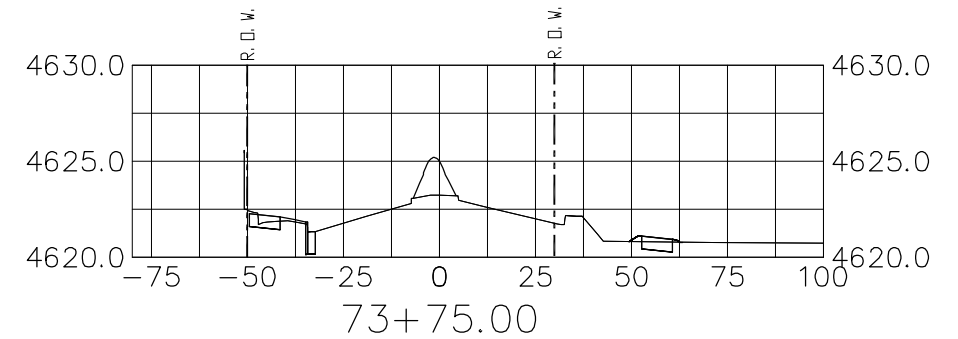
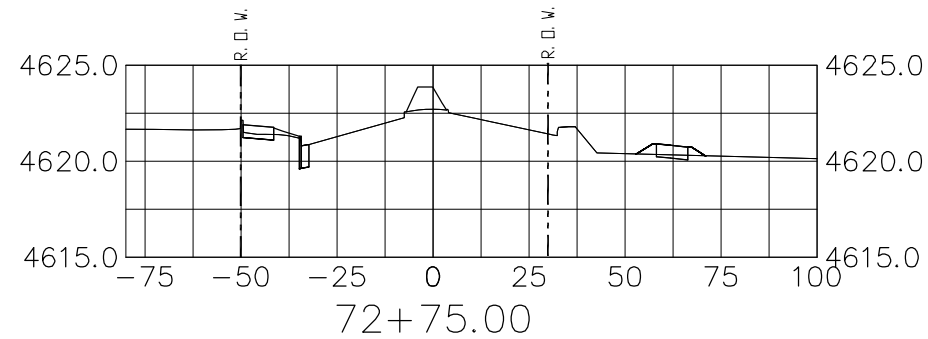
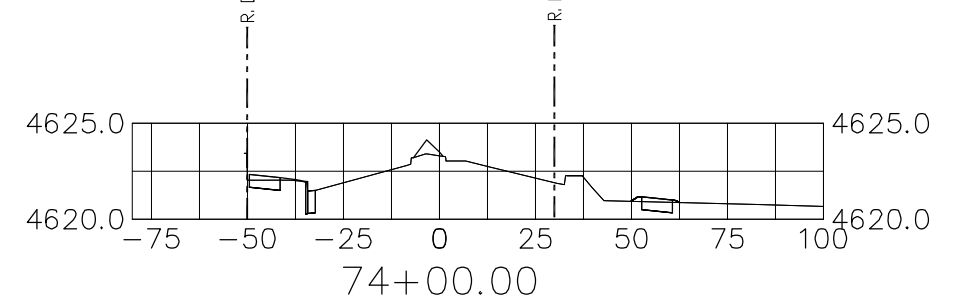
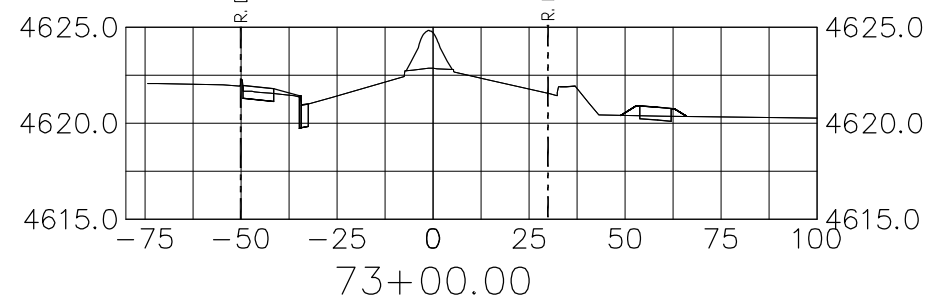
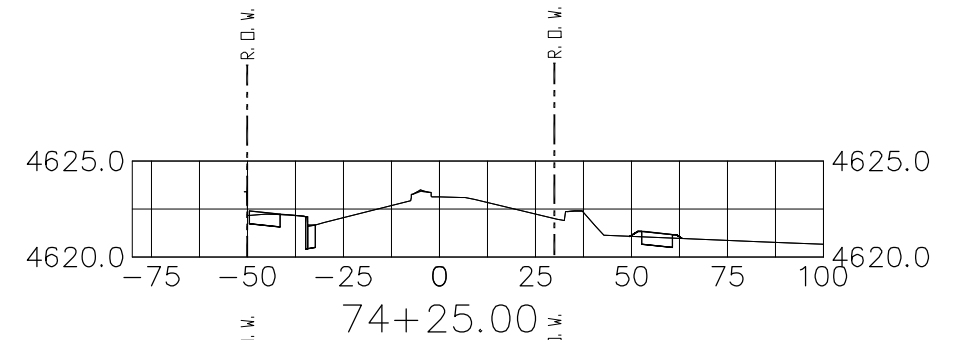
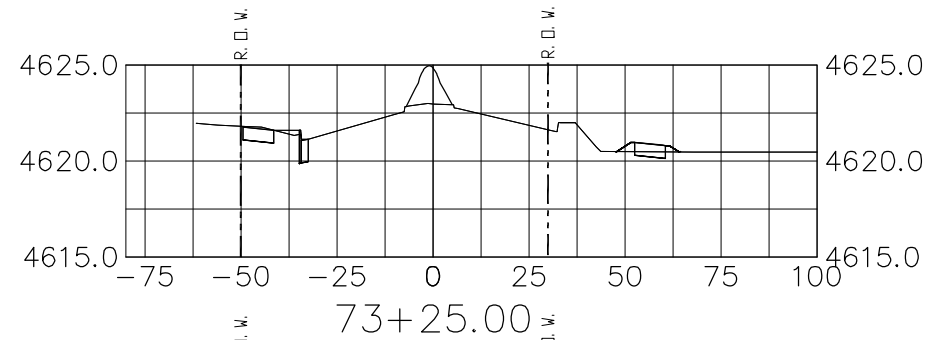
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 5 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 269


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 Unit Information: City of GJ Unit Leader Initials: DPJ

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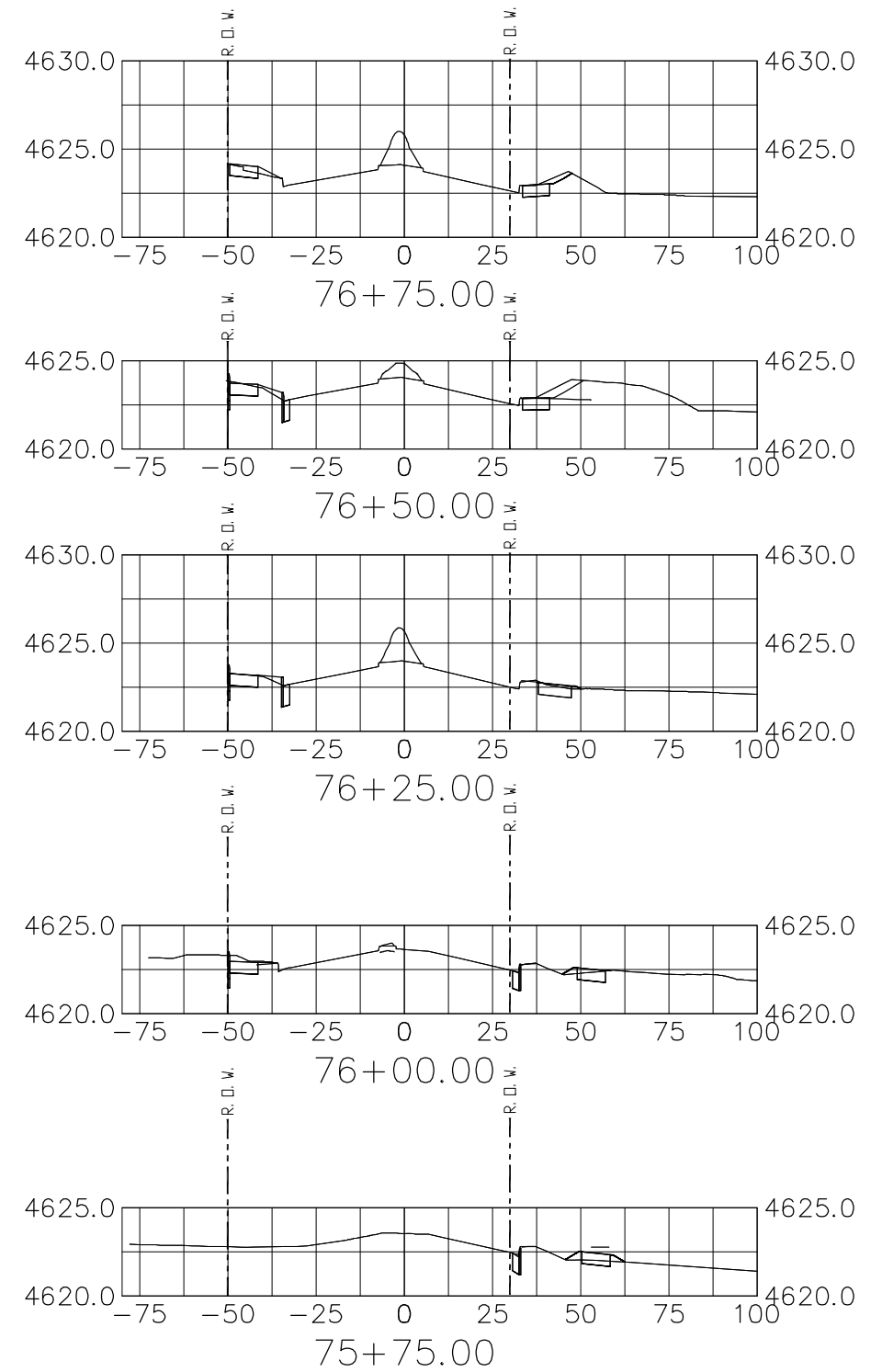
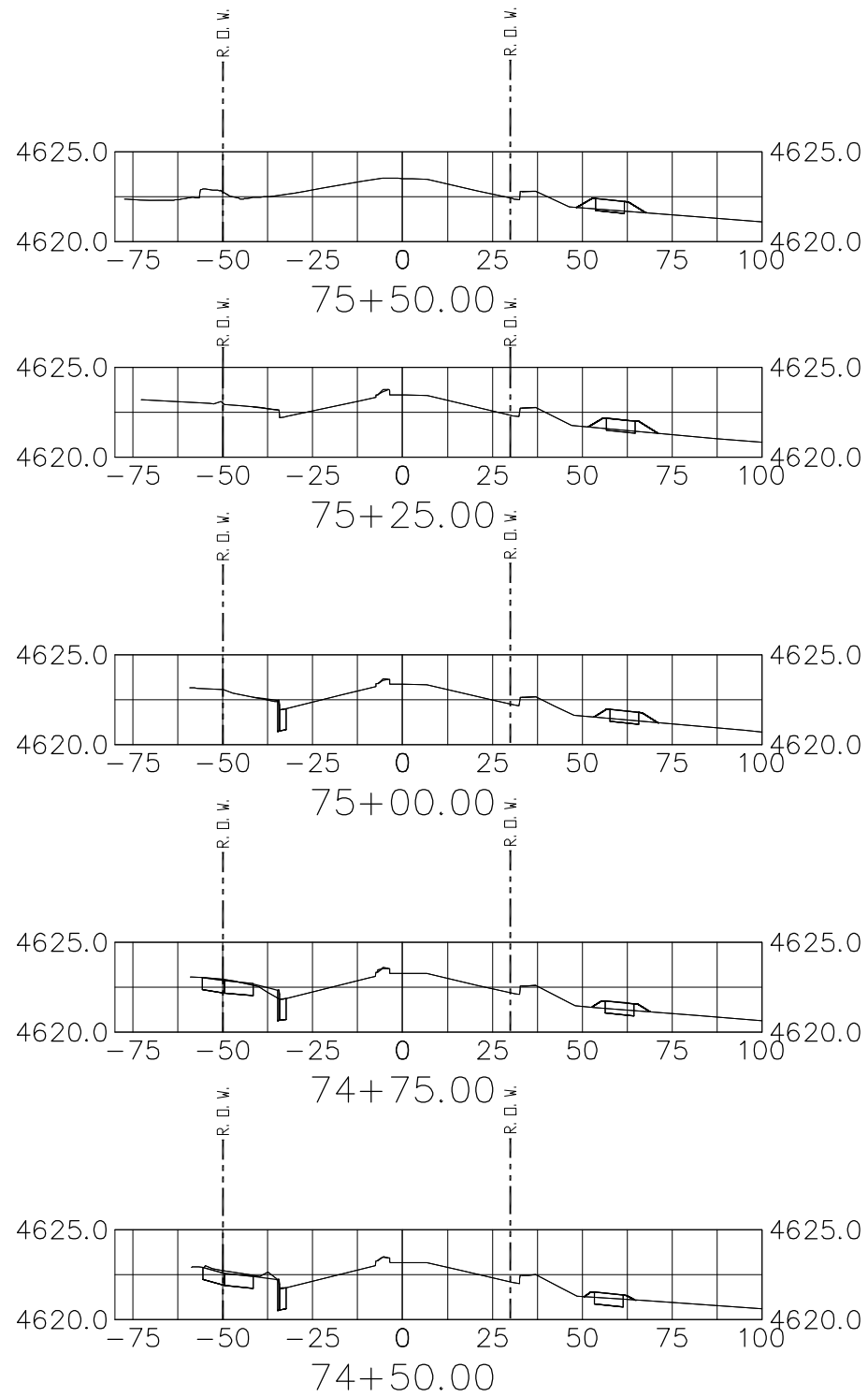
Colorado Department of Transportation

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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 6 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 270


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 Unit Information: City of GJ Unit Leader Initials: DPJ

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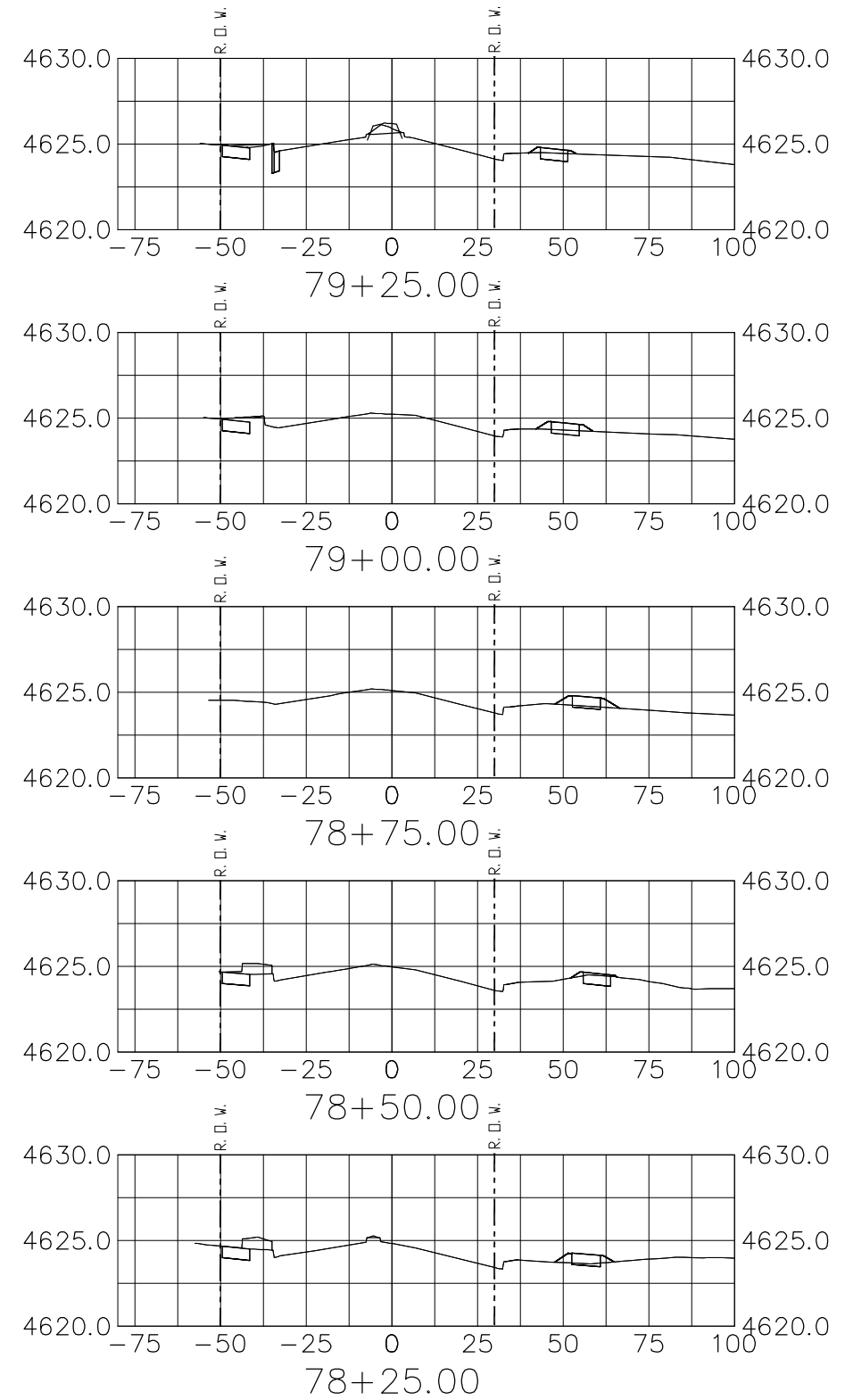
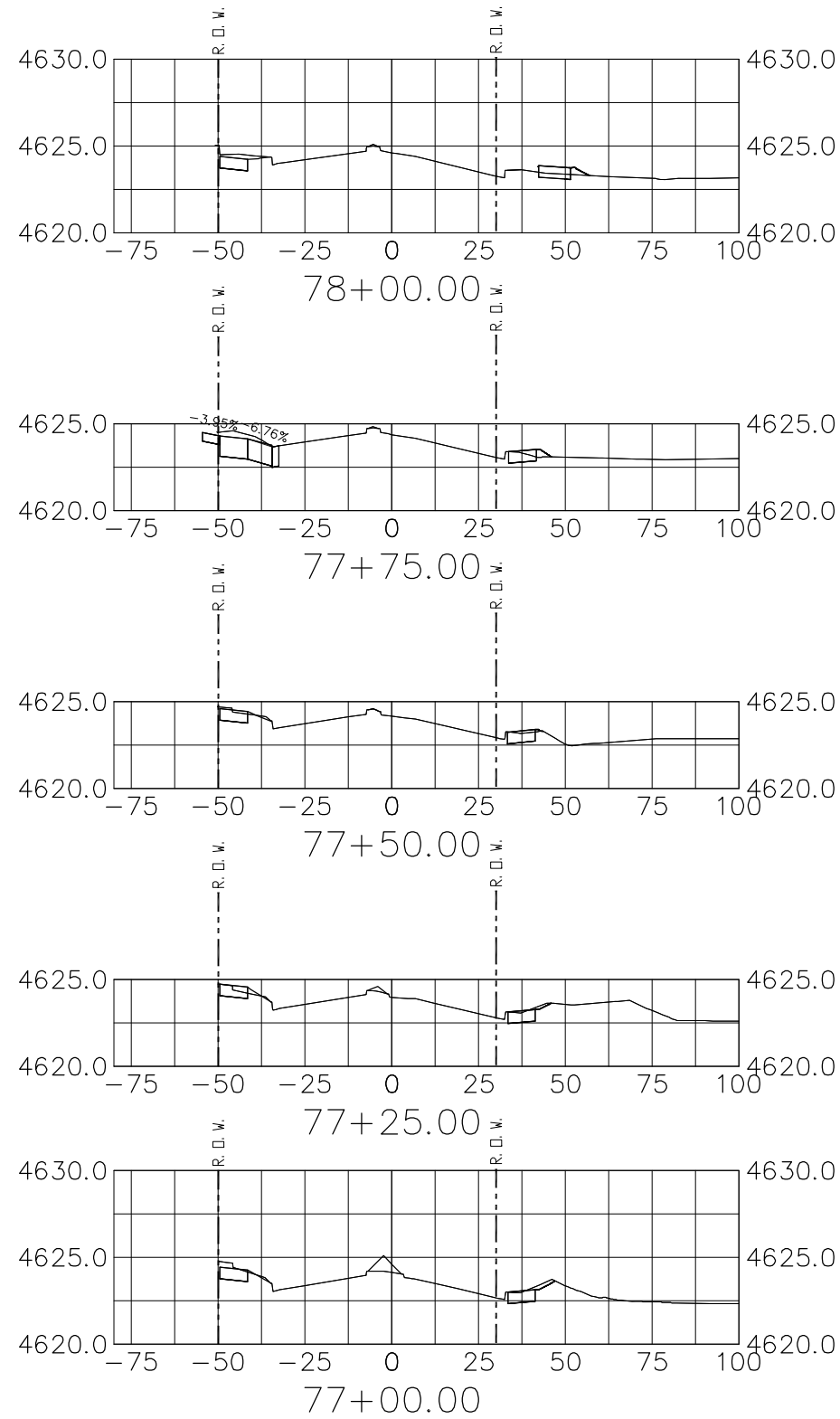
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

| As Constructed |
|----------------|
| No Revisions: |
| Revised: |
| Void: |

| Roadway Cross Sections | | |
|------------------------|-------------------|---------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 7 of 16 |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 271 |

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 Horiz. Scale: 1:50 Vert. Scale: 1:10
 Unit Information: City of GJ Unit Leader Initials: DPJ

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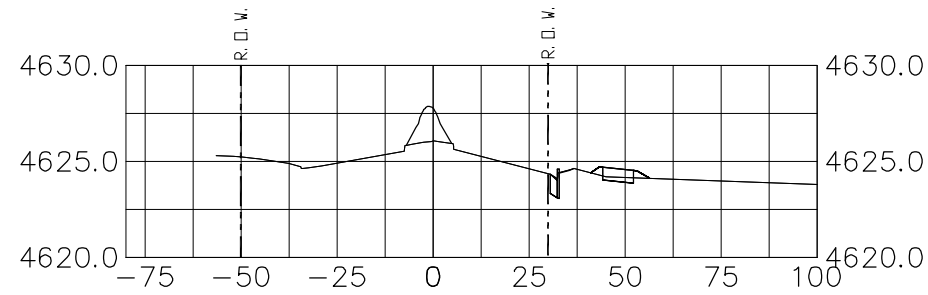
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

| As Constructed |
|----------------|
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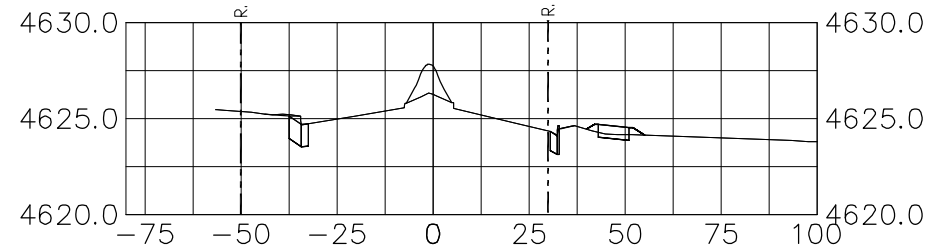
| Roadway Cross Sections | | |
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| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
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| Project No./Code |
|-------------------------|
| TCSP M555-029 |
| 19365 |
| Sheet Number 272 |

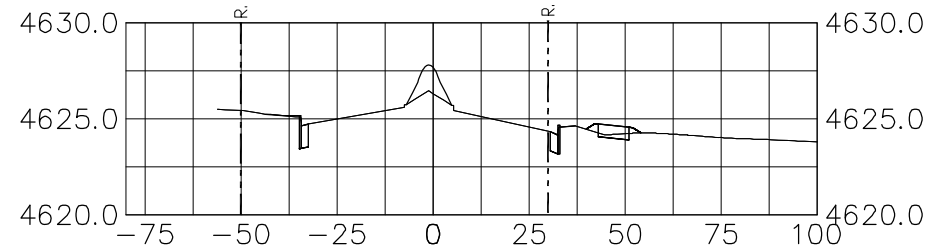
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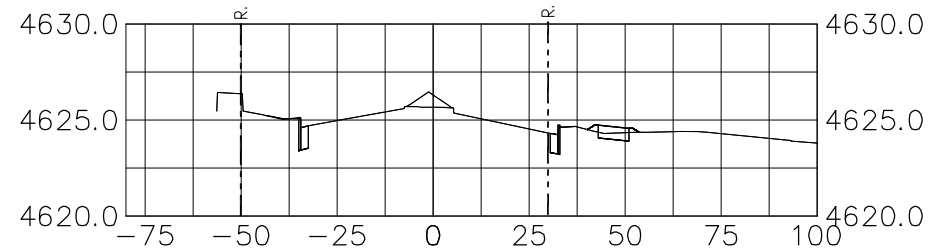
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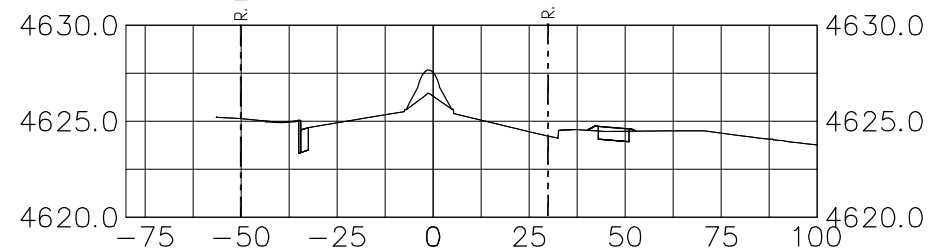
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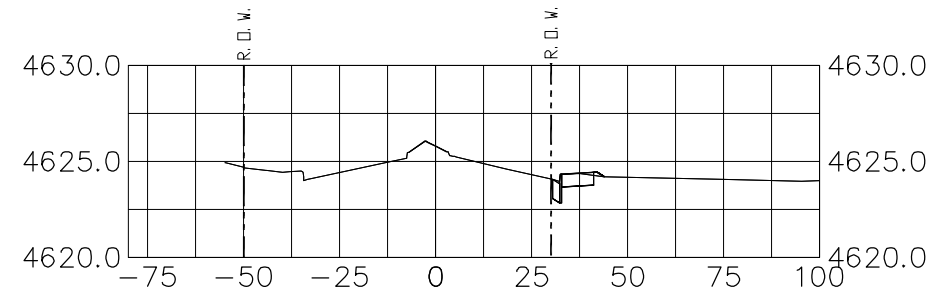
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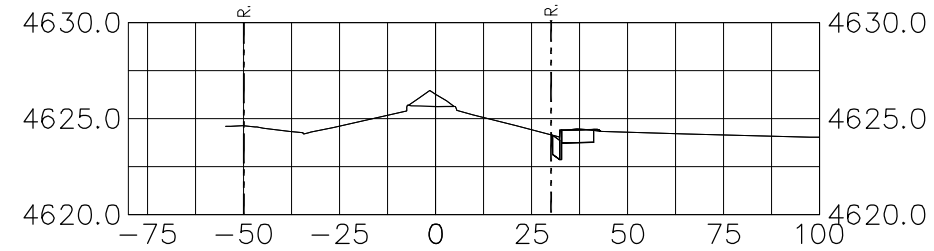
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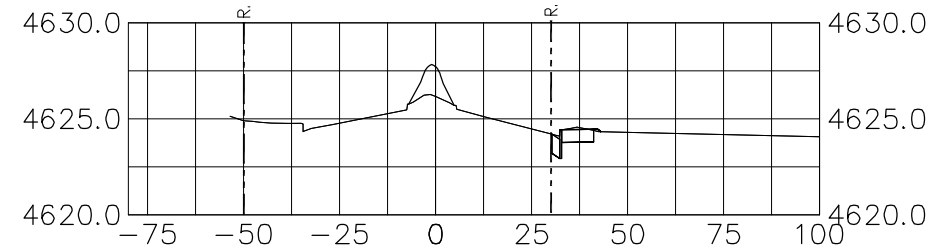
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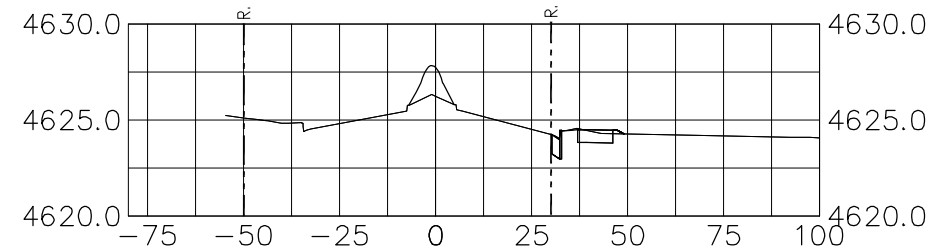
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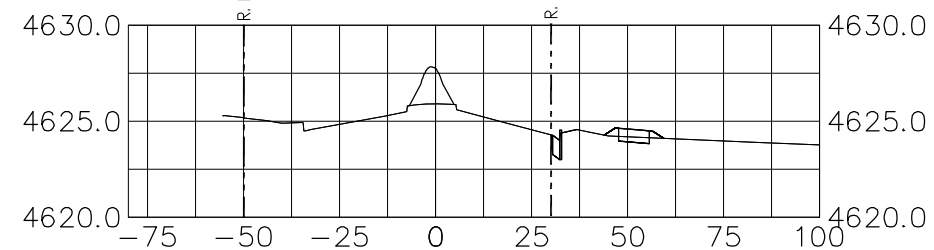
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 Unit Information: City of GJ Unit Leader Initials: DPJ

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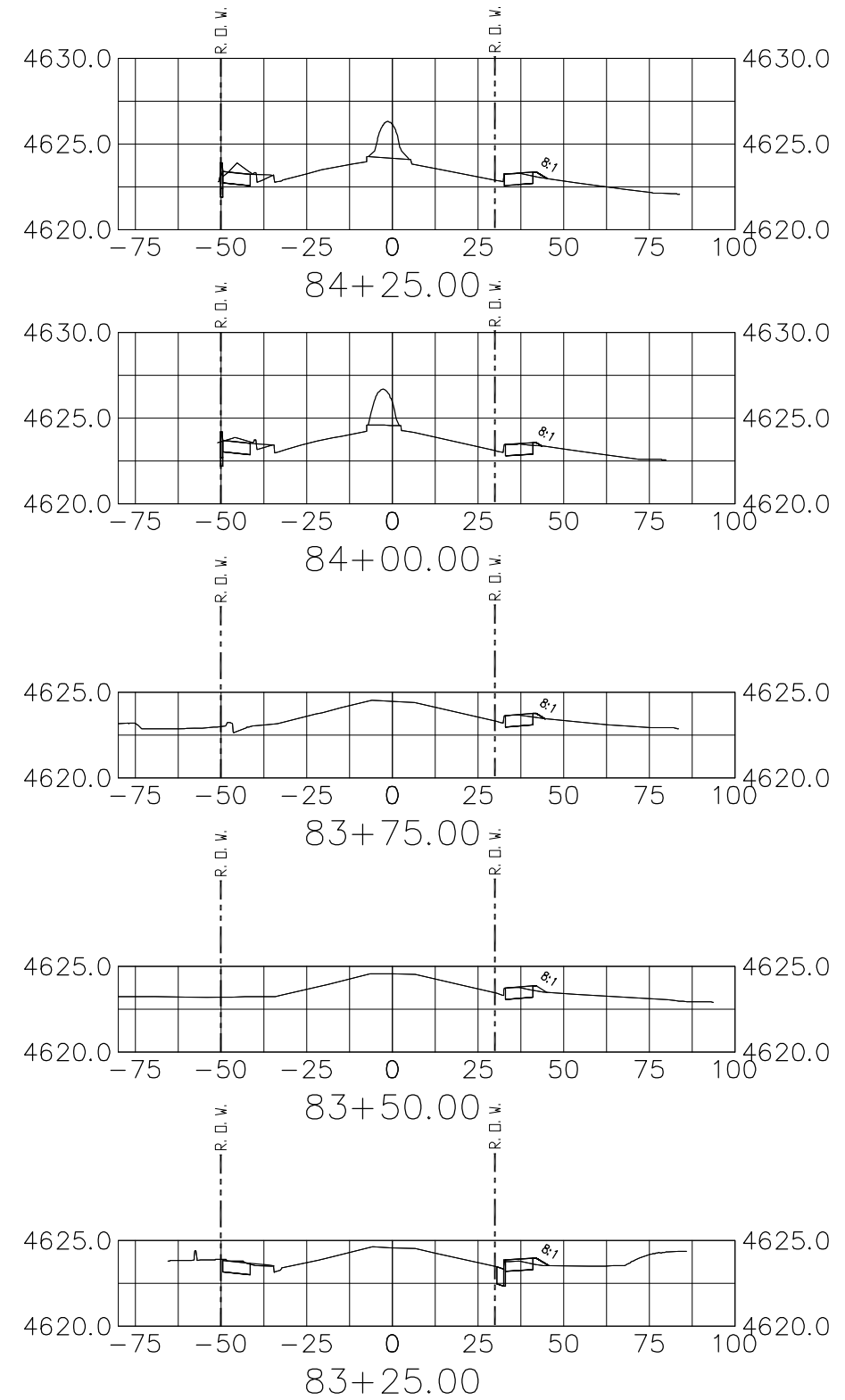
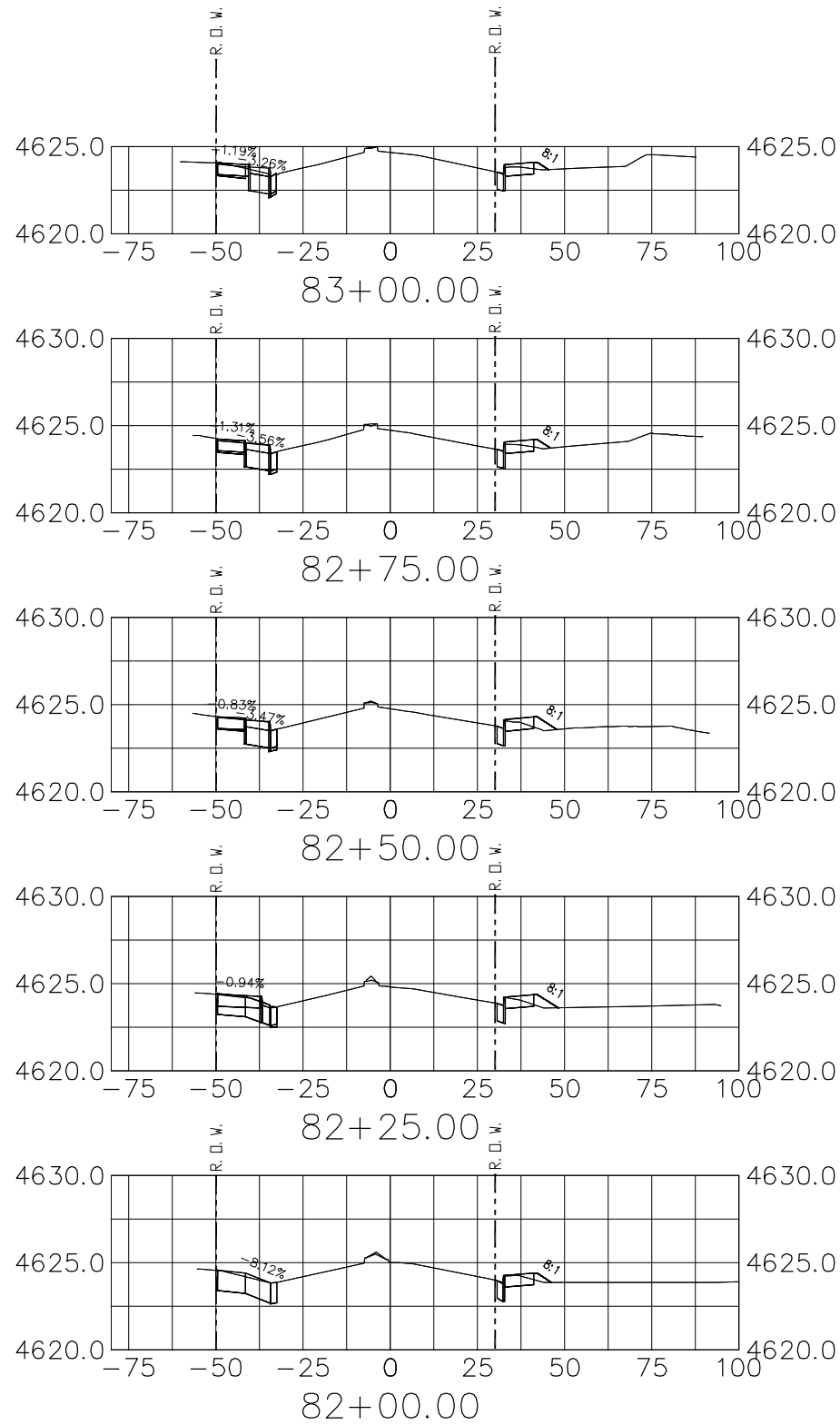
Colorado Department of Transportation

 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 9 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **273**


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 Horiz. Scale: 1:50 Vert. Scale: 1:10
 Unit Information: City of GJ Unit Leader Initials: DPJ

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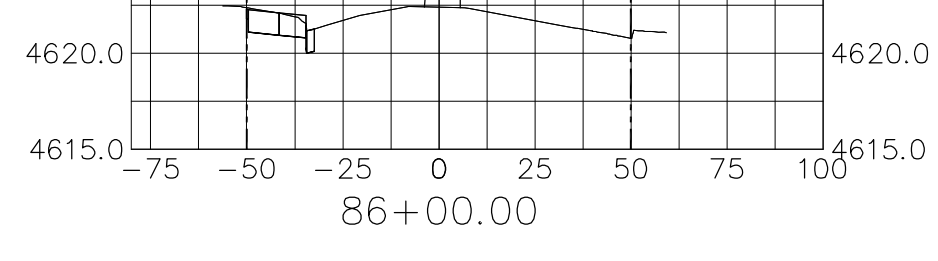
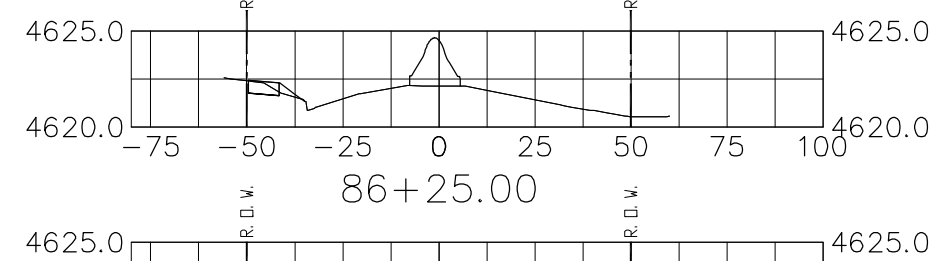
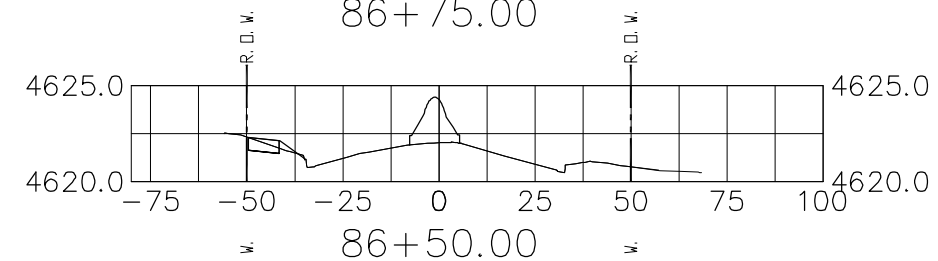
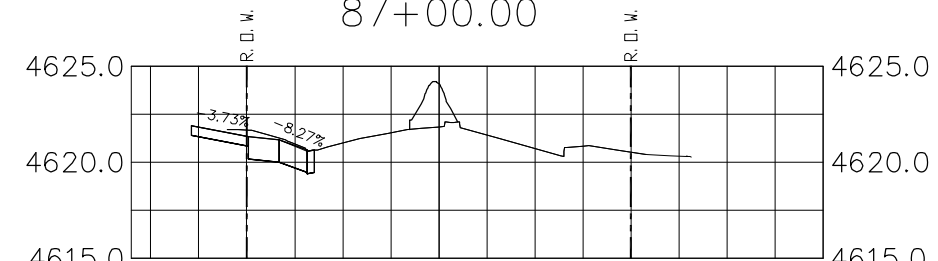
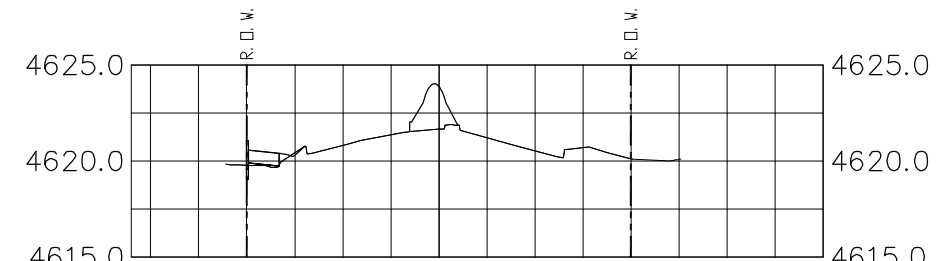
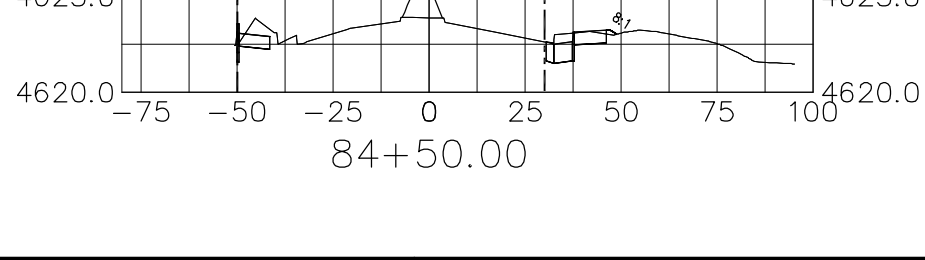
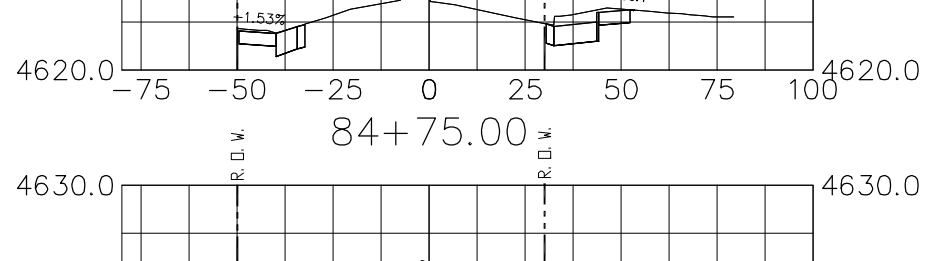
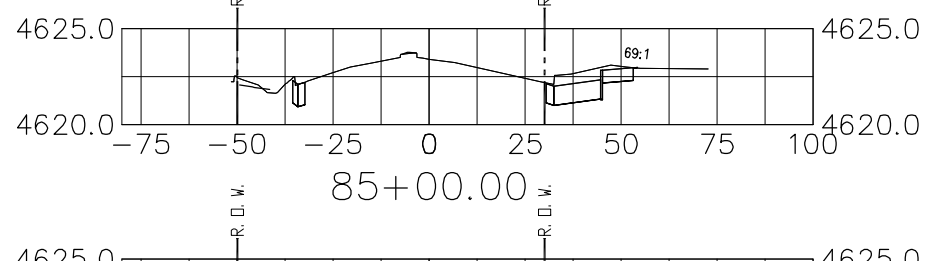
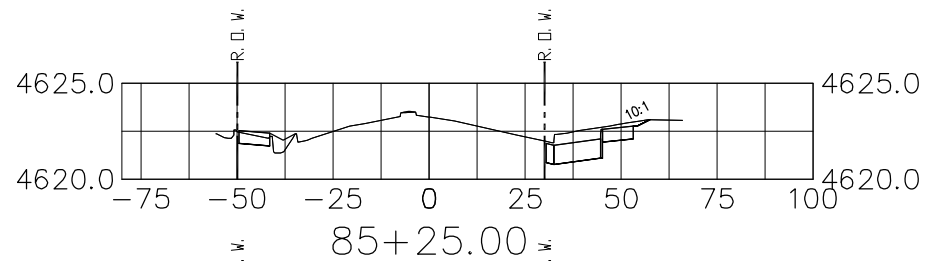
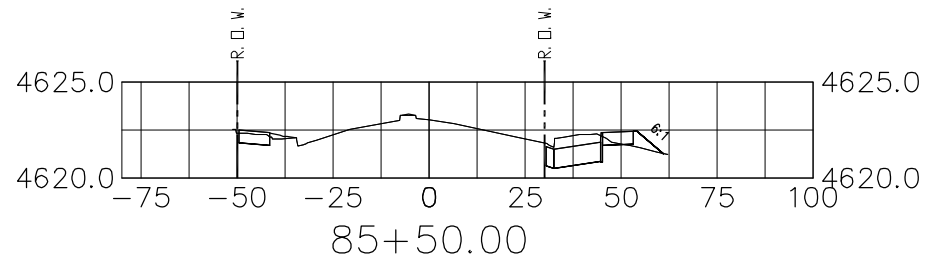
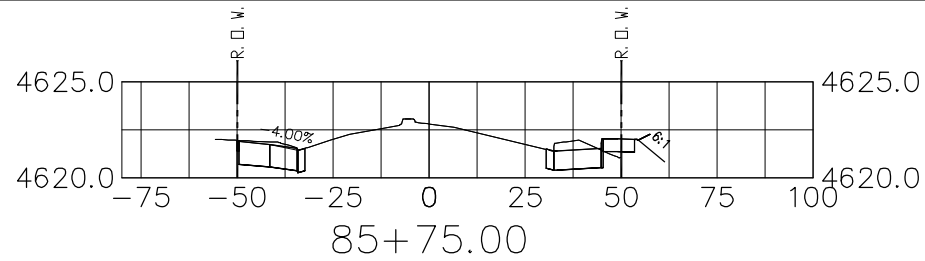
Colorado Department of Transportation
 606 South 9th Street
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 10 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 274

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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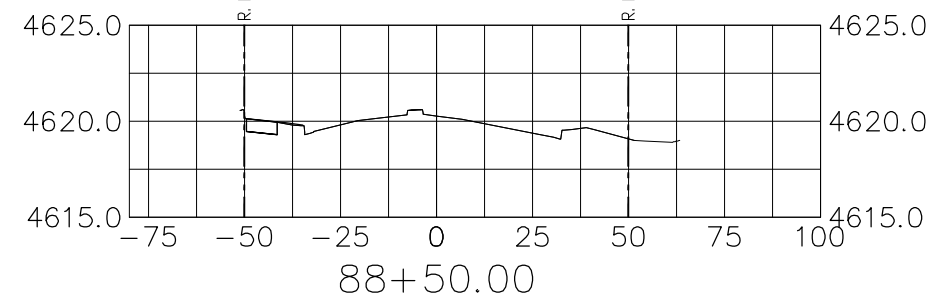
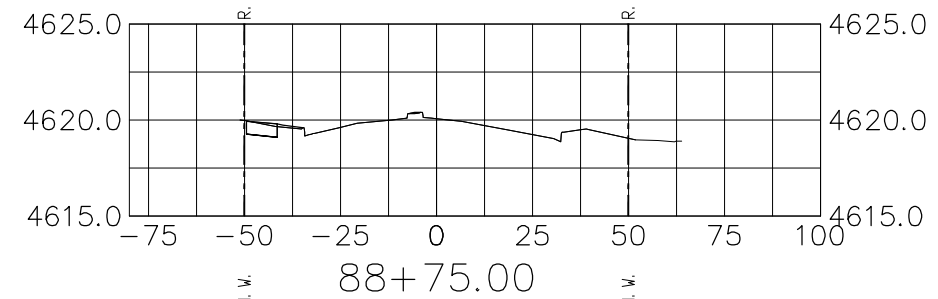
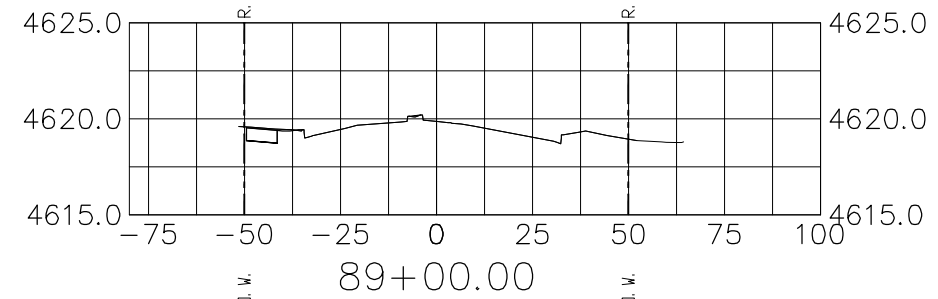
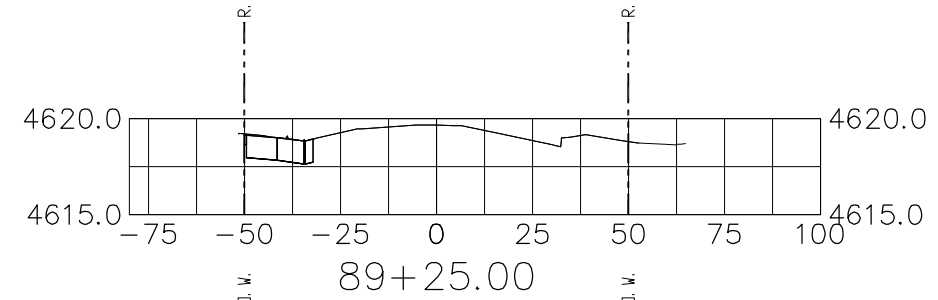
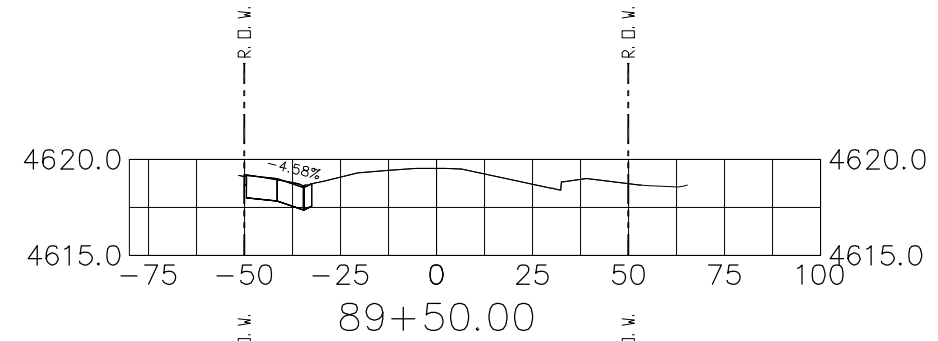
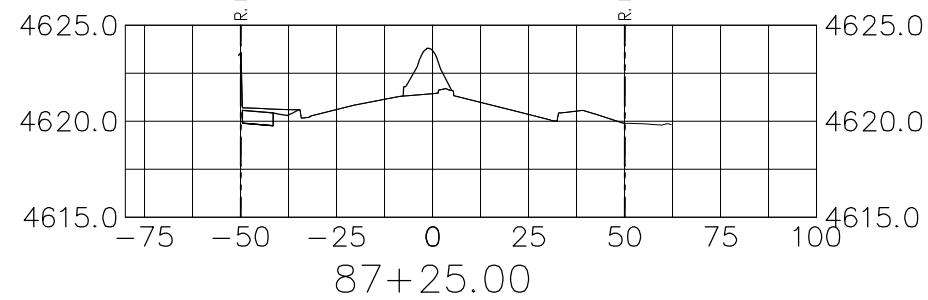
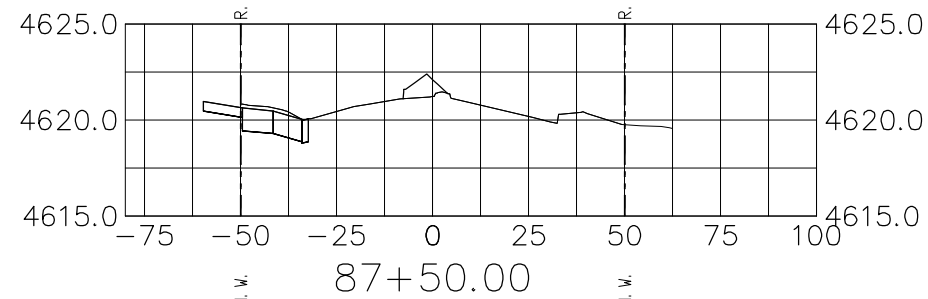
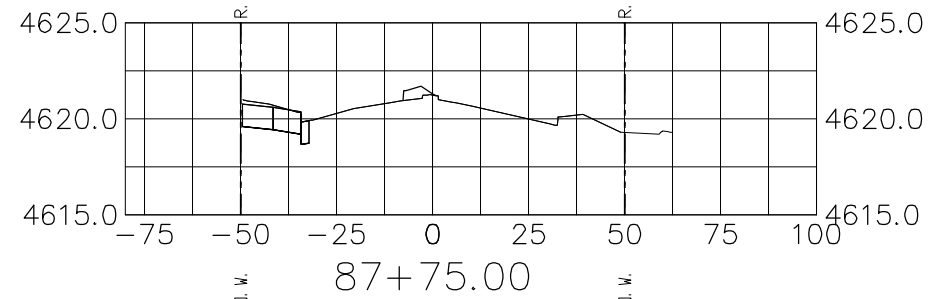
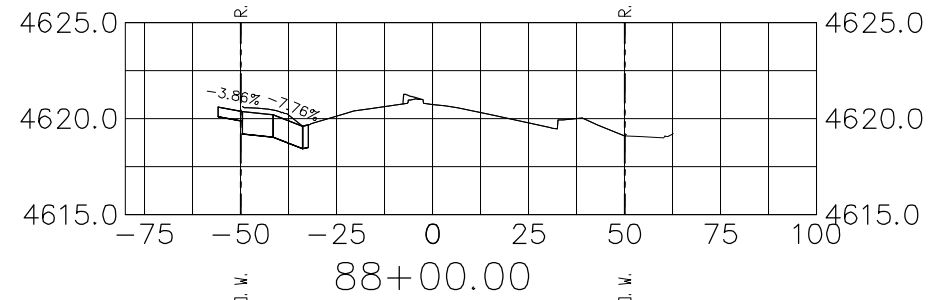
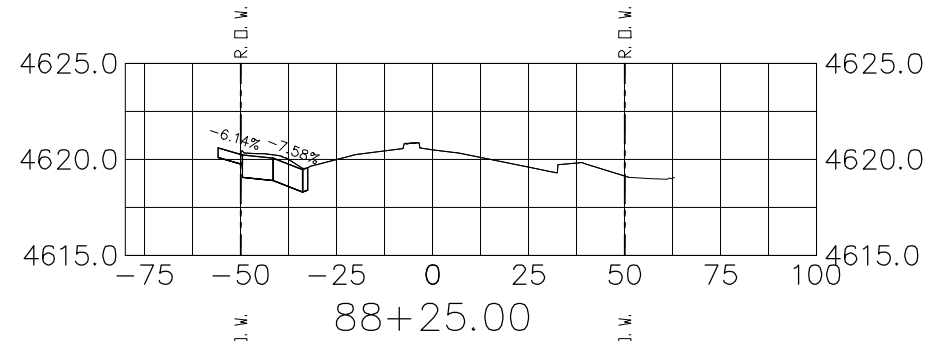
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| As Constructed |
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| Roadway Cross Sections | | |
|------------------------|-------------------|----------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 11 of 16 |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 275 |

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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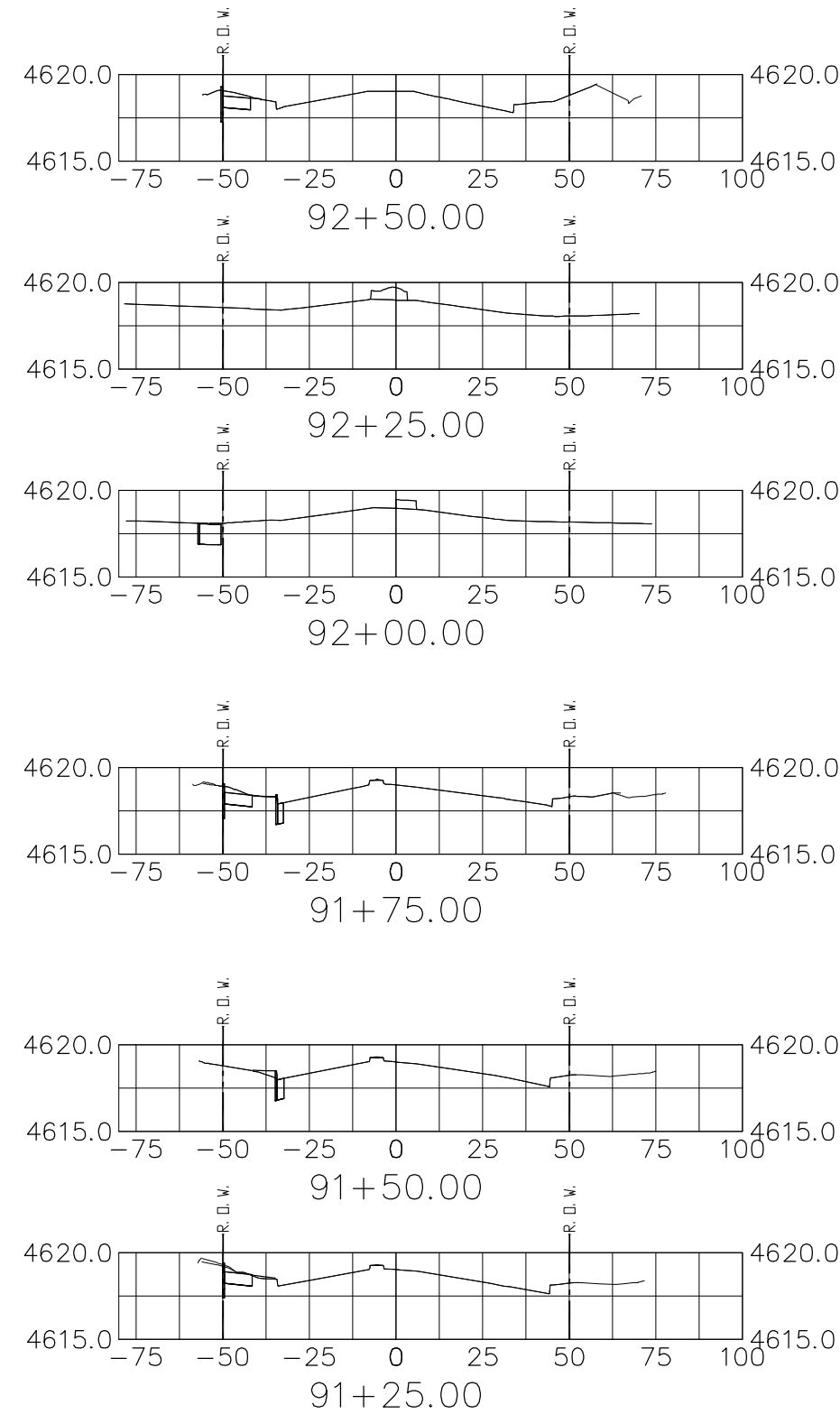
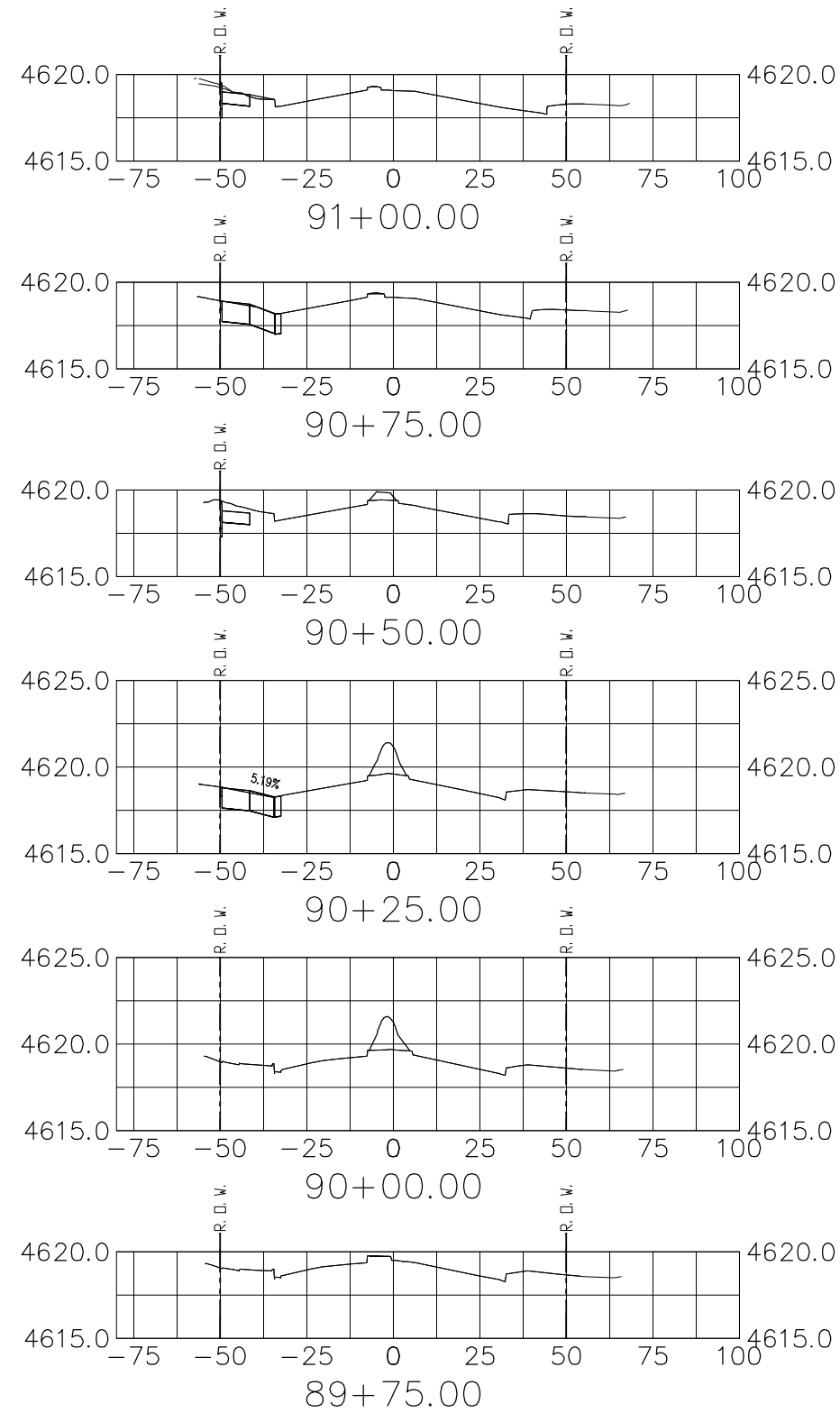
Colorado Department of Transportation
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 Grand Junction, CO, 81501
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 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
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Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 12 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 276

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 Horiz. Scale: 1:50 Vert. Scale: 1:10
 Unit Information: City of GJ Unit Leader Initials: DPJ

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Colorado Department of Transportation



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Region 3 RBB

As Constructed

No Revisions:

Revised:

Void:

| Roadway Cross Sections | | |
|------------------------|-------------------|----------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 13 of 16 |

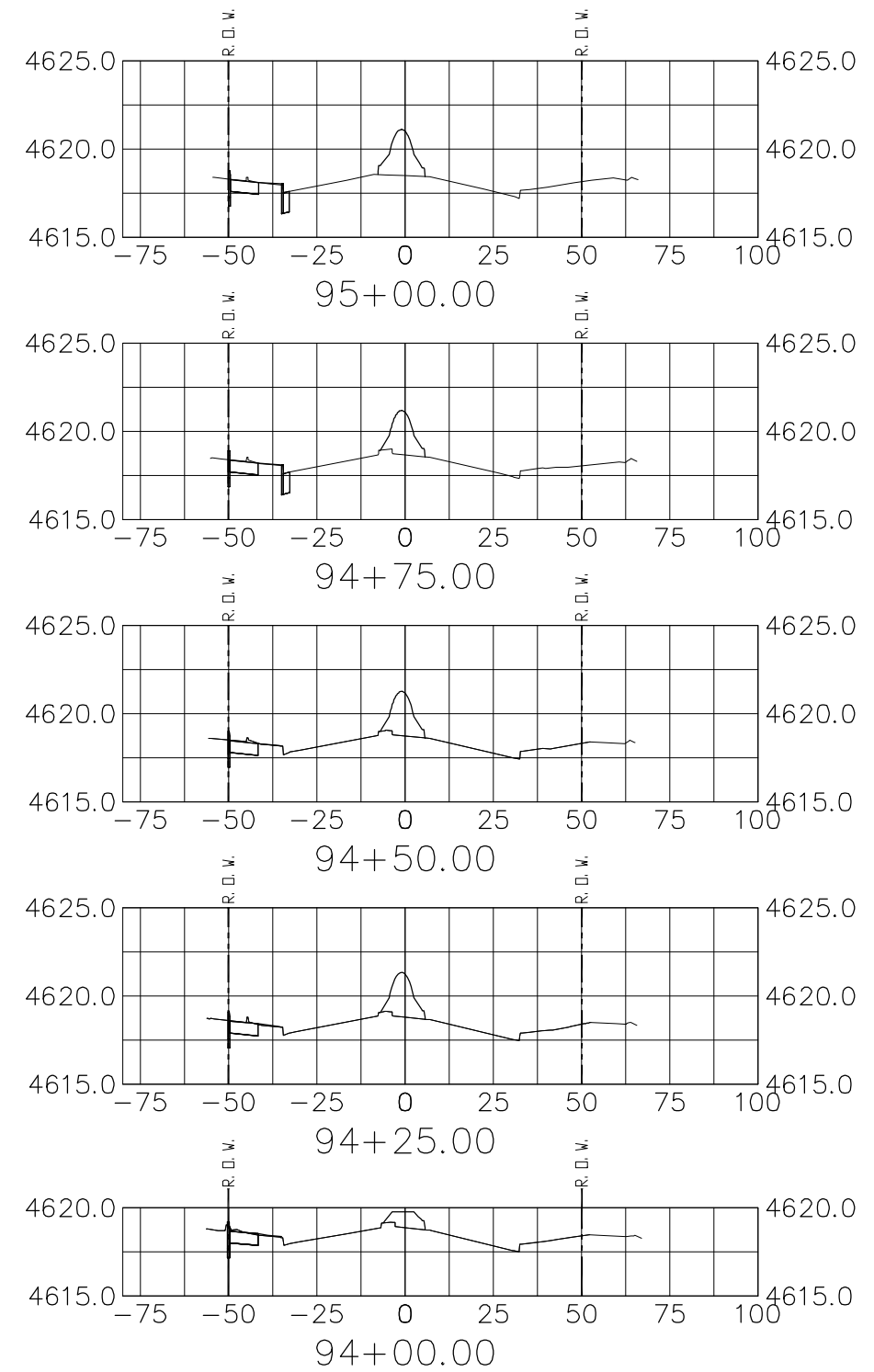
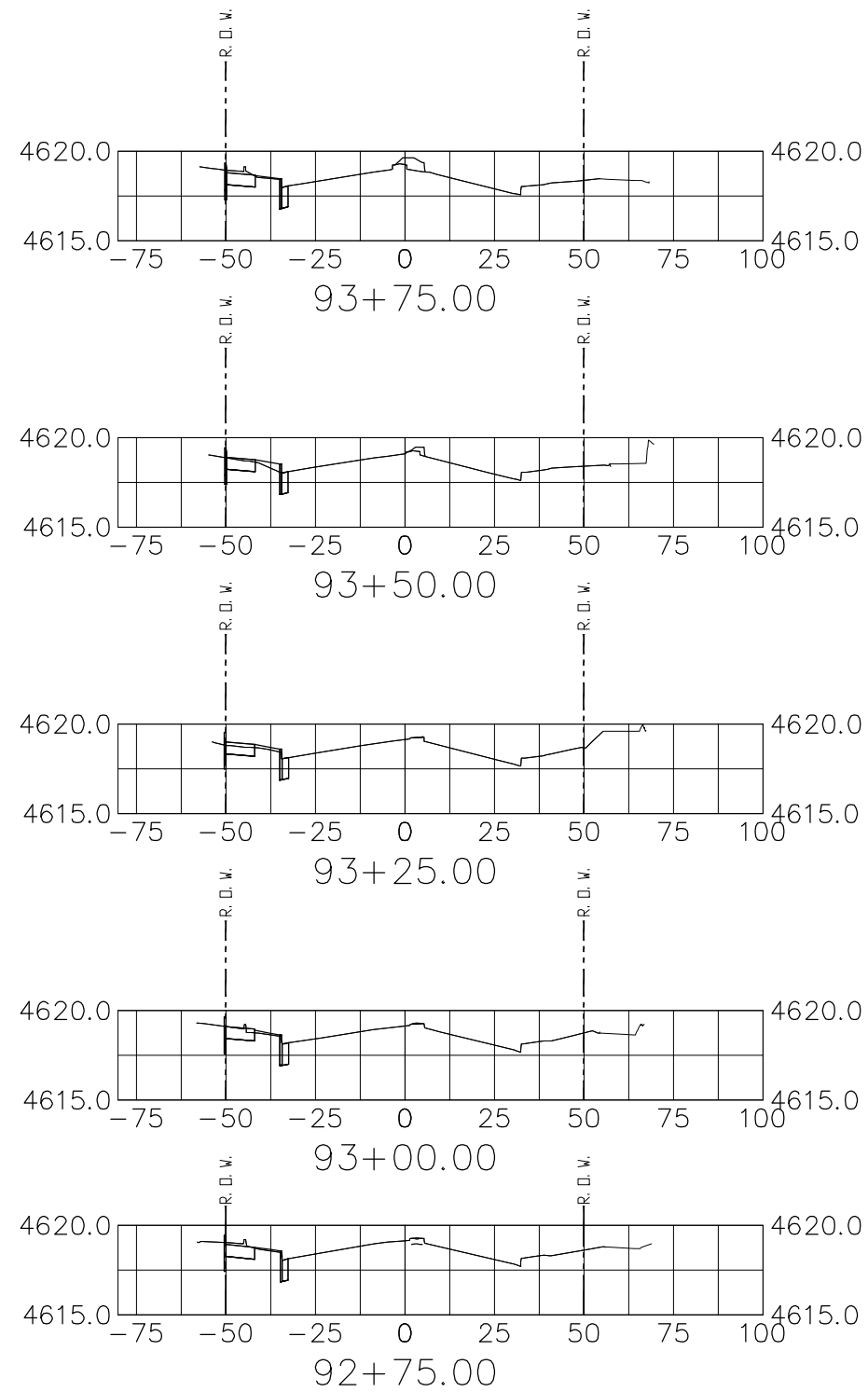
Project No./Code

TCSP M555-029

19365

Sheet Number **277**

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 Horiz. Scale: 1:50 Vert. Scale: 1:10
 Unit Information: City of GJ Unit Leader Initials: DPJ

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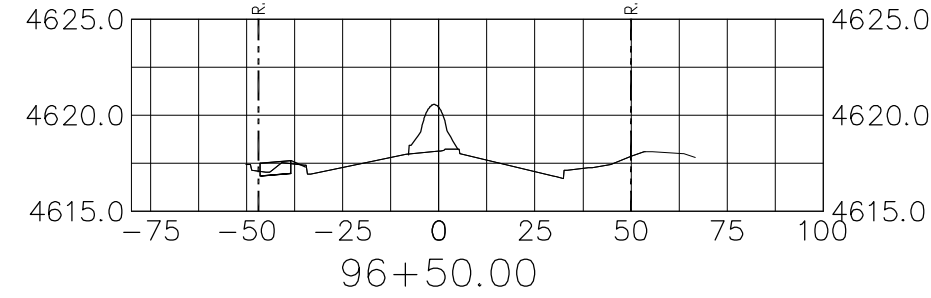
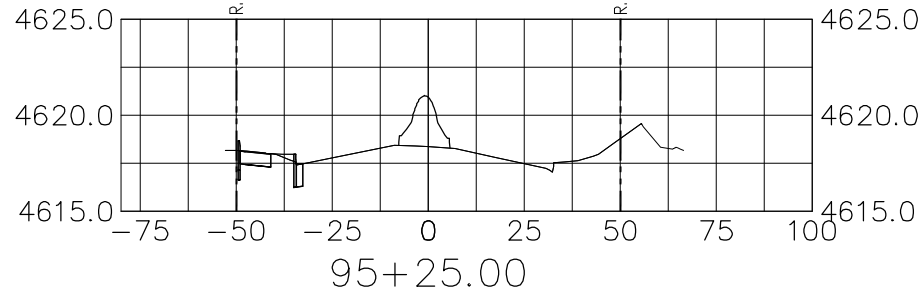
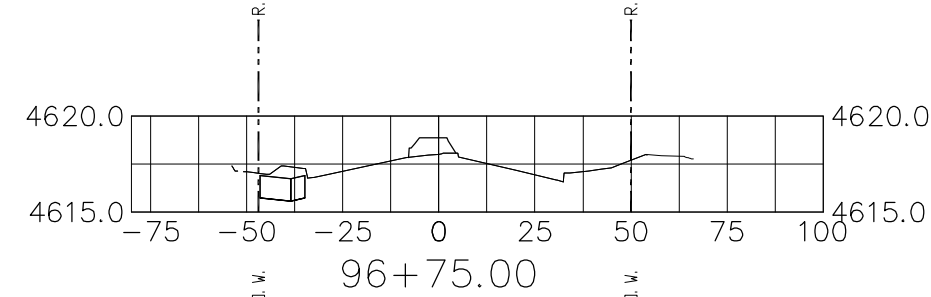
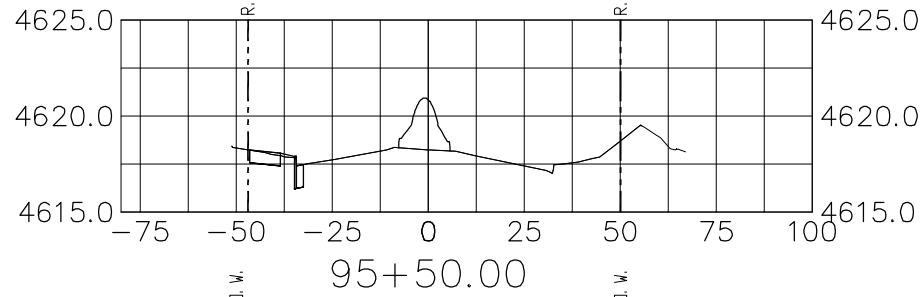
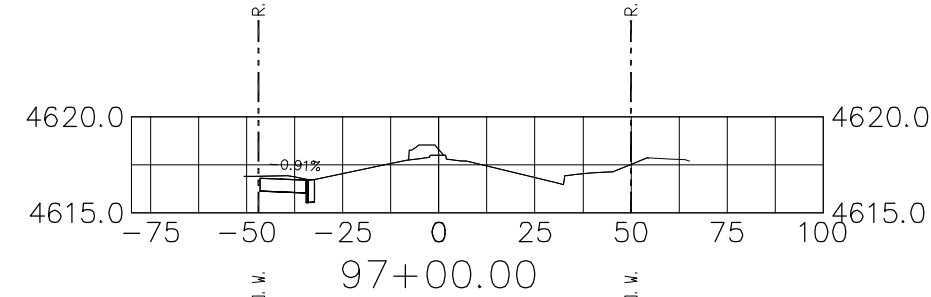
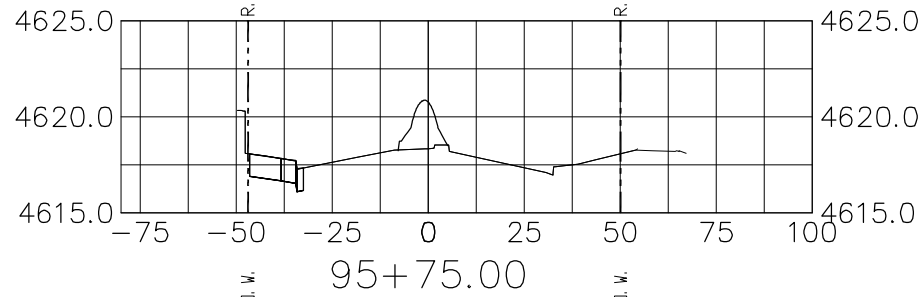
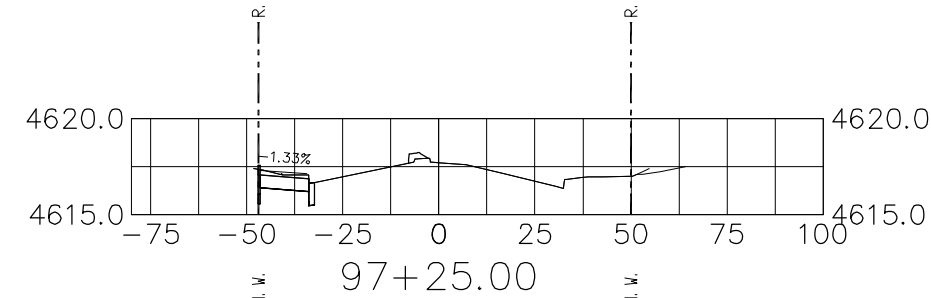
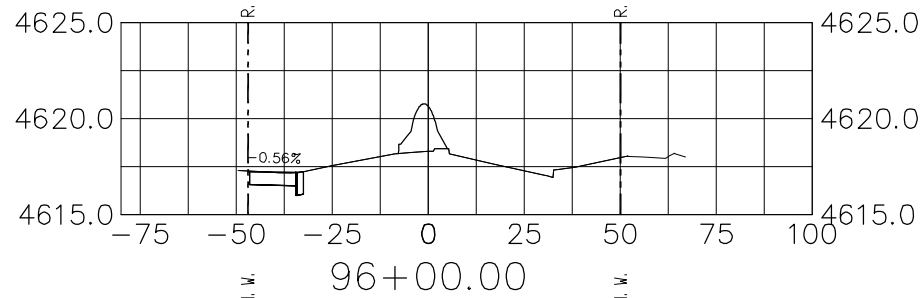
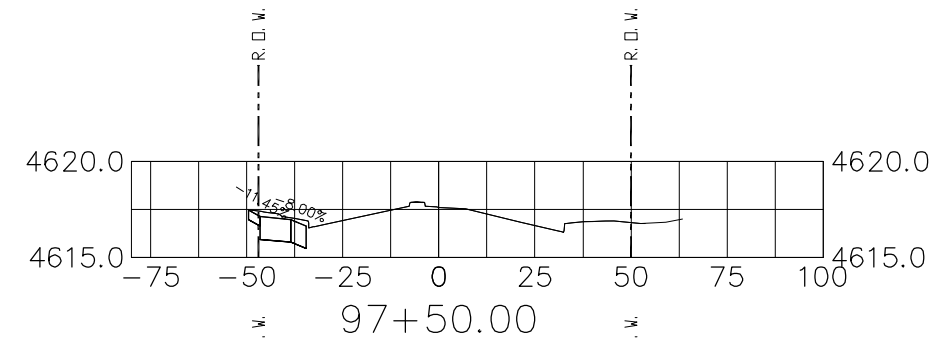
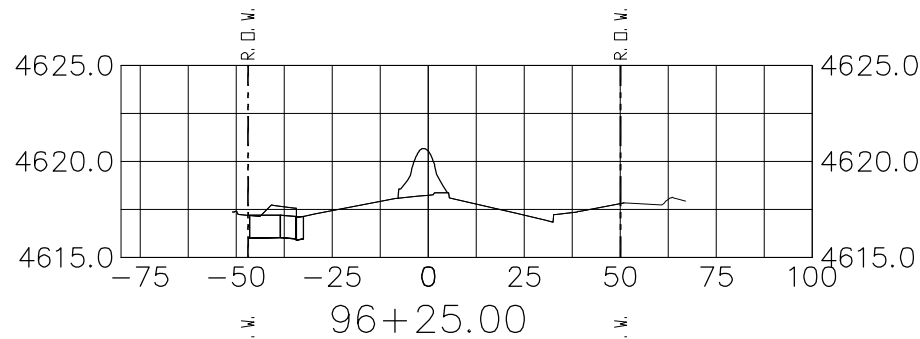
Colorado Department of Transportation
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 Region 3 RBB

As Constructed
 No Revisions:
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| Roadway Cross Sections | | |
|------------------------|-------------------|----------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 14 of 16 |

Project No./Code
 TCSP M555-029
 19365
 Sheet Number **278**

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 Unit Information: City of GJ Unit Leader Initials: DPJ

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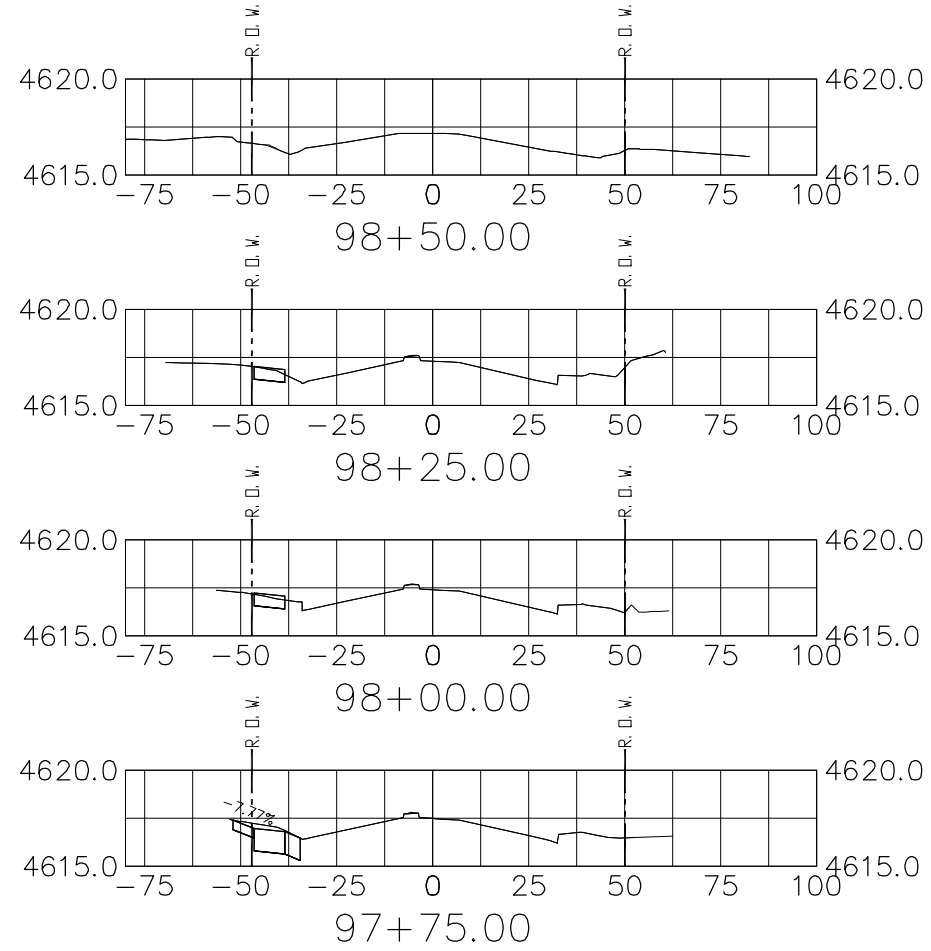
Colorado Department of Transportation
 606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

As Constructed
 No Revisions:
 Revised:
 Void:

Roadway Cross Sections
 Designer: John Smith
 Detailer: John Smith
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 15 of 16

Project No./Code
 TCSP M555-029
 19365
 Sheet Number 279

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 Region 3 RBB

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| No Revisions: |
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| Roadway Cross Sections | | |
|------------------------|-------------------|----------|
| Designer: John Smith | Structure Numbers | |
| Detailer: John Smith | | |
| Sheet Subset: | Subset Sheets: | 16 of 16 |

| Project No./Code |
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| TCSP M555-029 |
| 19365 |
| Sheet Number 280 |

GENERAL NOTES

1. ALL CONSTRUCTION ZONE TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNS, ARROW PANELS, FLASHING BEACON (PORTABLE), AND CHANNELIZING DEVICES, SHALL BE FURNISHED, INSTALLED, MAINTAINED (INCLUDING WASHING), REPLACED IF DAMAGED, REMOVED WHEN TEMPORARILY NOT IN USE AND RETURNED WHEN REQUIRED, RESET AS NECESSARY DURING THE PROGRESS OF CONSTRUCTION, AND REMOVED ENTIRELY WHEN THE PROJECT IS COMPLETED. ALL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE ATSSA "QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES & FEATURES".
2. WORK ON THE PROJECT SHALL NOT BE STARTED UNTIL ALL REQUIRED TRAFFIC CONTROL DEVICES ARE IN PLACE, AND APPROVED BY THE ENGINEER.
3. WHEN SPEED LIMIT REDUCTION IS REQUIRED, SUCH REDUCTION SHALL BE IN ACCORDANCE WITH CDDT FORM 568, "AUTHORIZATION AND DECLARATION OF TEMPORARY SPEED LIMITS."

WHEN A CHANGE IN AN EXISTING SPEED LIMIT IS REQUIRED, THE R2-1 SIGNS, SHOWN ON THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES, SHOULD BE INSTALLED AT THE LOCATIONS SHOWN ON THE TYPICAL CASES BY R2-1 (OPTIONAL) SIGNS.

AN ADVISORY SPEED PLATE (W13-1P) MAY BE USED WITH A WARNING SIGN WHEN THE MAXIMUM RECOMMENDED SPEED FOR CONDITION NAMED IS LOWER THAN THE POSTED SPEED LIMIT.

THE REGULATORY OR ADVISORY SPEED REDUCTION DISPLAYED SHALL NOT EXCEED 15 MPH PER SIGN INSTALLATION.
4. ANY TRAFFIC CONTROL DEVICE THAT IS DAMAGED, WEATHERED, WORN, OR OTHERWISE DEEMED UNACCEPTABLE BY THE ENGINEER, SHALL BE REPLACED.
5. CONTRACTOR AND PERSONAL VEHICLE PARKING IS PROHIBITED WITHIN THE RIGHT-OF-WAY UNLESS DESIGNATED ON THE PLANS, OR APPROVED BY THE ENGINEER.
6. CONSTRUCTION TRAFFIC SIGNS SHALL BE MEASURED BY THE FOLLOWING SIZES AND DESCRIPTIONS:

PANEL SIZE A 0.01 TO 9.00 SQ. FT. (INCLUDING TYPE 1 AND TYPE 2 BARRICADES).
PANEL SIZE B 9.01 TO 16.00 SQ. FT.
PANEL SIZE C GREATER THAN 16 SQ. FT.

CONSTRUCTION TRAFFIC SIGN (SPECIAL), SQ. FT., MAY BE USED FOR SOME PROJECT SPECIFIC INFORMATION SIGNS.

FOR DETAILED DIMENSIONS OF SIGNS WITH SIGN CODE NUMBERS, SEE "STANDARD HIGHWAY SIGNS" AND THE "COLORADO SUPPLEMENT" THERETO. SIGN LAYOUTS FOR OTHER SIGNS WILL BE FURNISHED IN THE PLANS, TRANSMITTED TO THE ENGINEER AFTER AWARD, OR MAY BE AVAILABLE UPON REQUEST.

W20-5 WARNING SIGNS SHALL BE FURNISHED WITH EXCHANGEABLE PLAQUES READING "RIGHT", "LEFT", "CENTER", "RIGHT 2", ETC. AT NO ADDITIONAL COST.
7. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF THE ROADWAY ON DIVIDED HIGHWAYS, MULTI-LANE RAMPS, ONE-WAY STREETS, AND AS DIRECTED BY THE ENGINEER, EXCEPT WHERE ONLY ONE SHOULDER IS CLOSED (EX: CASE 11 ON SHEET 7).
8. ADDITIONAL TRAFFIC CONTROL DEVICES ADDRESSING FLAGGING, SPEED REDUCTION, ETC. WILL BE NECESSARY FOR SET-UP AND TAKE-DOWN OF MOST CASE APPLICATIONS; DAILY WORK SITE ACCESS; AND PAVEMENT MARKING REMOVAL AND INSTALLATION OPERATIONS.
9. BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS, THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
10. IF CONSTRUCTION RELATED TRAFFIC CONGESTION BACKS UP BEYOND THE INSTALLED ADVANCE SIGN SEQUENCE, ADDITIONAL ADVANCE SIGNING SHALL BE PLACED BEYOND THE CONGESTION.
11. ALL SIGN MATERIAL SHALL BE SOUND AND DURABLE TO THE DEGREE NECESSARY FOR MAINTAINING EFFECTIVE AND NEAT APPEARING TRAFFIC CONTROLS, AND:
 - a. SIGN PANELS MAY BE FABRICATED FROM PLYWOOD, STEEL, ALUMINUM, OR OTHER SUITABLE MATERIAL.
 - b. REFLECTIVE SHEETING SHALL CONFORM TO ASTM D4956. THE TYPE SHALL BE AS DESCRIBED IN THE STANDARD SPECIFICATIONS AND/OR AS SHOWN ON THE PLANS.
 - c. SYMBOLS AND LEGEND SHALL BE OF GOOD WORKMANSHIP (UNEVEN OR HAND LETTERING WILL NOT BE ACCEPTED).
 - d. PORTABLE OR TEMPORARY MOUNTING SHALL NOT BE CONSTRUCTED OR WEIGHTED BY ANY METHOD OR MATERIAL THAT MAKES THEM HAZARDOUS TO TRAFFIC.
 - e. CERTAIN POST SIZES AND SHAPES REQUIRE A "BREAK-AWAY" DEVICE. SEE THE APPLICABLE STANDARD PLAN. OTHER POST DESIGNS OR SYSTEMS REQUIRE THE SUBMITTAL OF AN FHWA LETTER OF ACCEPTANCE TO THE ENGINEER, AND MUST BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
12. ALL CONSTRUCTION SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH STANDARD PLAN "TYPICAL GROUND SIGN PLACEMENT" UNLESS OTHERWISE APPROVED.

SIGNS APPROVED TO BE MOUNTED ON PORTABLE SUPPORTS, OR APPROPRIATE SIGNS MOUNTED ON BARRICADES, MAY BE AT LOWER HEIGHTS, BUT THE BOTTOM OF THE SIGNS SHALL NOT BE LESS THAN ONE FOOT ABOVE THE PAVEMENT ELEVATION.
13. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. IF THE BRACKET ALLOWS THE SIGN PANEL TO BE TURNED PARALLEL TO THE ROADWAY, THE SIGN MAY REMAIN IN PLACE WHEN NOT APPLICABLE, BUT LAYING THE SIGN PANEL DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
14. TRAFFIC CONES SHALL BE AT LEAST 28 INCHES IN HEIGHT. HOWEVER, THE MINIMUM SIZE SHALL BE 36 INCHES WHEN THEY ARE USED ON FREEWAYS AND EXPRESSWAYS, OR DURING NIGHT TIME WORKING HOURS. THEY SHOULD ALSO BE 36 INCHES WHEN USED ON OTHER HIGH SPEED ROADWAYS (45 MPH OR MORE) WITH AN ADT OF 6,000 OR MORE.
15. TYPE 1 BARRICADES SHALL NOT BE USED ON FREEWAYS, EXPRESSWAYS, OR OTHER HIGH SPEED ROADWAYS (55 MPH OR MORE).
16. WHEN TWO-WAY TRAFFIC IS PLACED ON ONE ROADWAY OF A NORMALLY DIVIDED HIGHWAY, OPPOSING TRAFFIC SHALL BE SEPARATED EITHER WITH CONCRETE BARRIER (TEMPORARY), OR WITH CHANNELIZING DEVICES APPROVED FOR THIS APPLICATION, THROUGHOUT THE LENGTH OF TWO-WAY OPERATION. THE TRANSITION ZONES SHALL HAVE CONCRETE BARRIER (TEMPORARY). THE BARRIER SHALL BE TIED TO AN EXISTING STRUCTURE OR GUARD RAIL, FLARED OR EXTENDED, TO MEET CLEAR ZONE REQUIREMENTS, OR FITTED WITH AN IMPACT ATTENUATION DEVICE.
17. CHANNELIZING DEVICE SPACING, IN FEET, SHALL BE AS FOLLOWS:
 - a. FOR TAPERS AND TRANSITIONS, SPACING EQUALS THE NUMERICAL VALUE OF THE SPEED LIMIT. (e.g. 45 MPH = 45 FEET)
 - b. FOR TANGENTS ALONG THE BUFFER SPACE OR WORK AREA, SPACING MAY NOT BE GREATER THAN TWO TIMES THE SPEED LIMIT. (e.g. 50 MPH = 50 FEET TO 100 FEET MAXIMUM)
18. FOR DETAILS ON BARRICADES, CONCRETE BARRIER (TEMPORARY), VERTICAL PANELS, AND FLASHING BEACON (PORTABLE), SEE THE APPLICABLE STANDARD PLANS.
19. FLOOD LIGHTS SHALL BE USED TO ILLUMINATE FLAGGER STATIONS DURING THE HOURS OF DARKNESS UNLESS OTHERWISE APPROVED. A TYPICAL LIGHT SHOULD PROVIDE THE FOLLOWING: A FULLY DIRECTIONAL SWIVEL MOUNT QUARTZ LIGHT SOURCE (500 WATT MINIMUM), SELF-SUPPORTING STAND WITH VARIABLE LIGHT HEIGHT FROM A MINIMUM OF EIGHT FEET ABOVE THE ROADWAY, AND A POWER SOURCE. IT SHALL ILLUMINATE THE STATION AREA AND A FLAGGER ESCAPE PATH, BUT SHALL NOT PRESENT ANY GLARE TO TRAFFIC.
20. FOR TEMPORARY PAVEMENT MARKINGS AND CONTROL POINTS FOR INSTALLING THOSE PAVEMENT MARKINGS FOR UNDIVIDED ROADWAYS THAT ARE BEING CONSTRUCTED UNDER TRAFFIC, FULL COMPLIANCE CENTER LINE, LANE LINE, AND EDGE LINE TEMPORARY MARKINGS SHALL BE IN PLACE AT THE END OF EACH WORK DAY IN ACCORDANCE WITH SECTION 627.03(d)2.

FOR ADDITIONAL PAVEMENT MARKING DETAILS, SEE STANDARD PLAN "TYPICAL PAVEMENT MARKINGS".
21. BUFFER SPACE IS OPTIONAL. NEED MUST BE DETERMINED ON A PROJECT OR SITE SPECIFIC BASIS AS DIRECTED BY THE ENGINEER. WHEN A BUFFER SPACE IS USED, DIMENSIONS AND/OR DEVICES USED ARE TO BE INCORPORATED IN THE TRAFFIC CONTROL PLAN (TCP) OR THE CONTRACTOR'S METHOD OF HANDLING TRAFFIC (MHT).
22. ADDITIONAL VMS SIGNAGE SHOULD BE CONSIDERED AT LEAST A MILE IN ADVANCE OF THE SIGNING SHOWN IN THE DETAIL FOR ANY LANE CLOSURES ON INTERSTATE AND OTHER HIGH SPEED FACILITIES ESPECIALLY WHEN THE LEVEL OF SERVICE IS SIGNIFICANTLY REDUCED AS A RESULT OF CONSTRUCTION. THE LEGENDS SHOULD BE CHANGED TO ADVISE MOTORISTS OF UPCOMING TRAFFIC CONDITIONS AND TO ALERT THEM OF UPCOMING LANE USAGE.

ADDITIONAL ADVANCE WARNING SIGNAGE IS ENCOURAGED IN ALL CASES WHERE TRAFFIC VOLUMES AND SPEEDS ARE HIGH AND/OR WHERE THERE ARE INFREQUENT EXITS. ADDITIONAL SIGNAGE IS ALSO ENCOURAGED IN LOCATIONS WHERE DRIVERS' LINE OF SIGHT TO ADVANCE WARNING SIGNS IS OBSTRUCTED.
23. WHEN ARROW BOARDS ARE USED TO CLOSE MULTIPLE LANES, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

IF ARROW BOARDS ARE USED FOR SHOULDER WORK, BLOCKING THE SHOULDER, FOR ROADSIDE WORK NEAR THE SHOULDER, OR FOR TEMPORARILY CLOSING ONE LANE ON A TWO-LANE, TWO-WAY ROADWAY, USE THE ARROW BOARDS ONLY IN THE CAUTION MODE.
24. RAISED PAVEMENT MARKERS MAY BE USED TO SUPPLEMENT TEMPORARY STRIPING DURING NON-SNOW PERIODS. THEIR USE IS ENCOURAGED ON HIGHER SPEED FACILITIES WHEN TRAFFIC IS BEING DIVERTED FROM ITS USUAL COURSE.
25. THE TYPICAL CASES DEPICTED IN THIS STANDARD REFLECT THE MINIMUM REQUIREMENTS, UNLESS AS OTHERWISE DIRECTED BY THE PROJECT PLANS AND SPECIFICATIONS, AND/OR THE PROJECT ENGINEER.
26. A SIGNIFICANT PROJECT IS DEFINED AS ONE THAT, ALONE OR IN COMBINATION WITH OTHER CONCURRENT PROJECTS NEARBY, IS ANTICIPATED TO CAUSE SUSTAINED WORK ZONE IMPACTS AT A LOCATION FOR THREE OR MORE CONSECUTIVE DAYS WITH EITHER INTERMITTENT OR CONTINUOUS LANE CLOSURES.

(281)

| Sheet Revisions | |
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| Date: | Comments |
| (R-1) 02/06/13 | SHEET 13 - UPDATE TO 2009 MUTCD STD |
| (R-2) 02/26/13 | SHEET 1 - UPDATE TO NOTE 1 |
| (R-3) 02/27/13 | SHEET 4 - UPDATE TAPER TO MUTCD STD |
| (R-4) 07/26/13 | SHTS 9, 10, 15 & 20 - CORRECTED SIGN CODE DESIGNATION |
| (R-5) 03/27/14 | SHTS 17 & 18 - UPDATED SIGNS AND TMA'S |
| (R-6) 07/22/14 | SHEET 1 - UPDATE TO NOTE 20 |
| (R-7) 12/8/14 | SHEETS 17 TO 24 - ADDED AND RENUMBERED SHEET 22 - SIGN CODE UPDATE, W5-40 & W21-50 |

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Safety & Traffic Engineering Branch KCM/KEN

**TRAFFIC CONTROLS
FOR HIGHWAY
CONSTRUCTION**

Issued By: Safety & Traffic Engineering Branch July 4, 2012

STANDARD PLAN NO.

S-630-1

Sheet No. 1 of 24

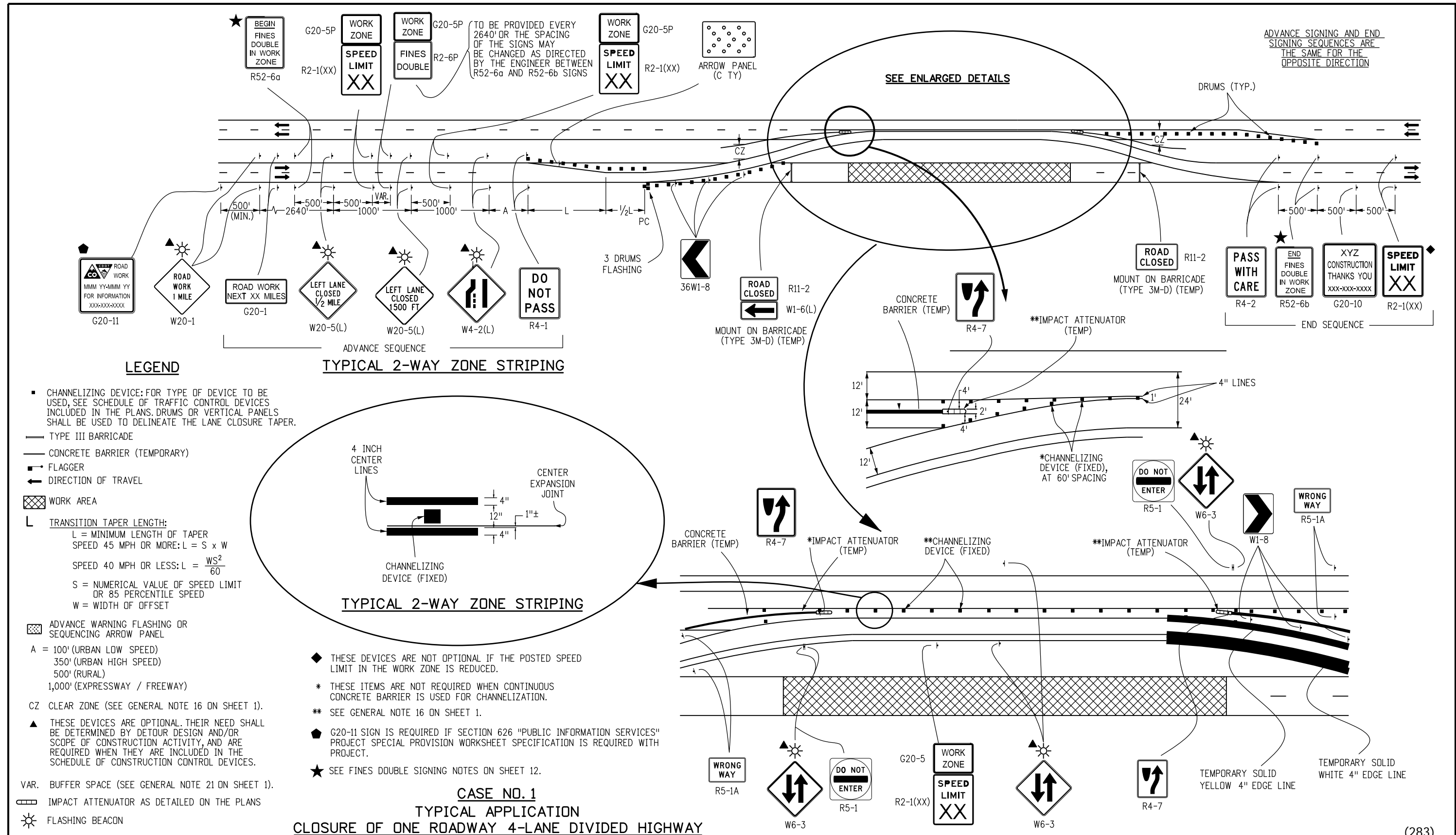
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| CLOSURE OF HALF OF 4-LANE UNDIVIDED HIGHWAY | 2 | 4 |
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| ROAD CLOSURE, BYPASS DETOUR PROVIDED | 4 | 5 |
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|---|----------|-----------|
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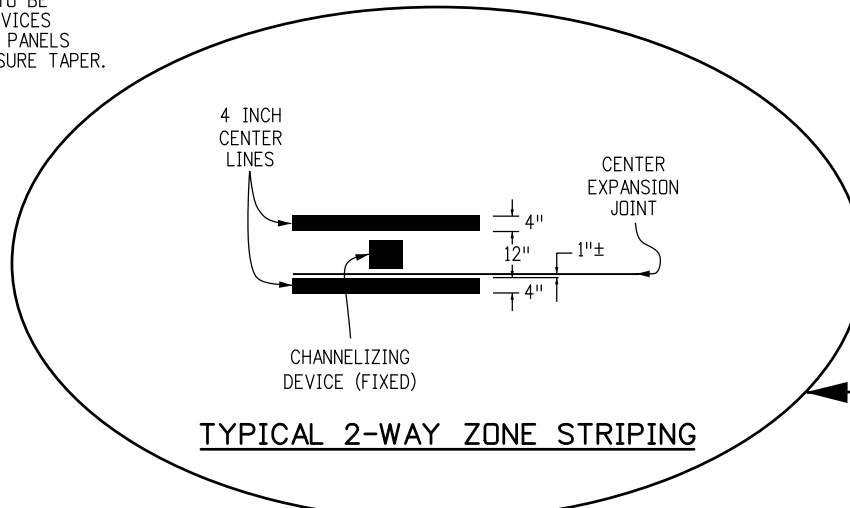
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| Computer File Information | | Sheet Revisions | |  <p>Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219</p> | <p>TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION</p> | STANDARD PLAN NO. |
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LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
- TYPE III BARRICADE
- CONCRETE BARRIER (TEMPORARY)
- FLAGGER
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- L TRANSITION TAPER LENGTH:
 L = MINIMUM LENGTH OF TAPER
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
- ▨ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL
- A = 100' (URBAN LOW SPEED)
 350' (URBAN HIGH SPEED)
 500' (RURAL)
 1,000' (EXPRESSWAY / FREEWAY)
- CZ CLEAR ZONE (SEE GENERAL NOTE 16 ON SHEET 1).
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- VAR. BUFFER SPACE (SEE GENERAL NOTE 21 ON SHEET 1).
- ▨ IMPACT ATTENUATOR AS DETAILED ON THE PLANS
- ☀ FLASHING BEACON



TYPICAL 2-WAY ZONE STRIPING

- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- * THESE ITEMS ARE NOT REQUIRED WHEN CONTINUOUS CONCRETE BARRIER IS USED FOR CHANNELIZATION.
- ** SEE GENERAL NOTE 16 ON SHEET 1.
- G20-11 SIGN IS REQUIRED IF SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

**CASE NO. 1
TYPICAL APPLICATION
CLOSURE OF ONE ROADWAY 4-LANE DIVIDED HIGHWAY**

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|--|---------------|
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TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

STANDARD PLAN NO.
 S-630-1
 Sheet No. 3 of 24

LEGEND

■ CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.

- TYPE III BARRICADE
- FLAGGER
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA

L TRANSITION TAPER LENGTH:
 L = MINIMUM LENGTH OF TAPER
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
 SHOULDER TAPER = 1/3 L

▨ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.

A = 100' (URBAN LOW SPEED)
 350' (URBAN HIGH SPEED)
 500' (RURAL)
 1,000' (EXPRESSWAY / FREEWAY)

CZ CLEAR ZONE (SEE GENERAL NOTE 16 ON SHEET 1)

▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.

◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.

VAR. BUFFER SPACE (SEE GENERAL NOTE 21 ON SHEET 1).

● REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.

◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.

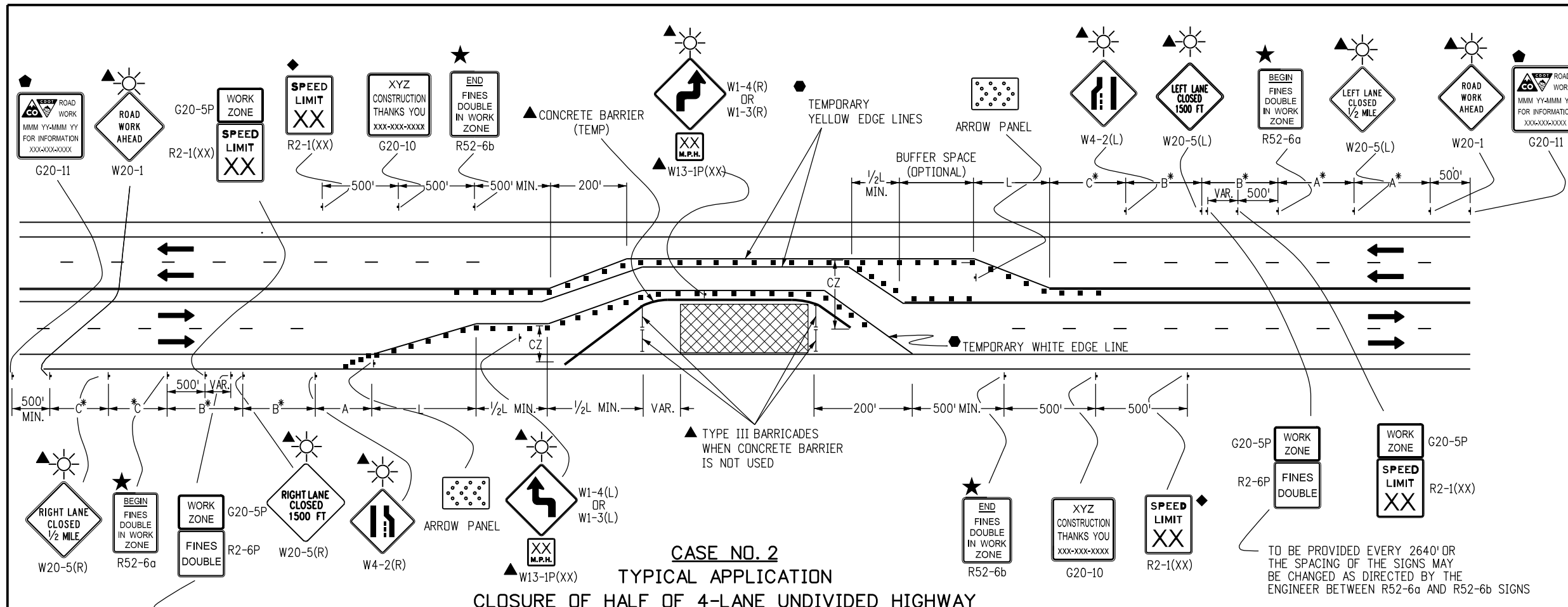
☀ FLASHING BEACON

★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

*** KEY TO ADVANCE SIGNING DISTANCES**

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<=40 MPH) | 100 | 100 | 100 |
| URBAN (>=45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

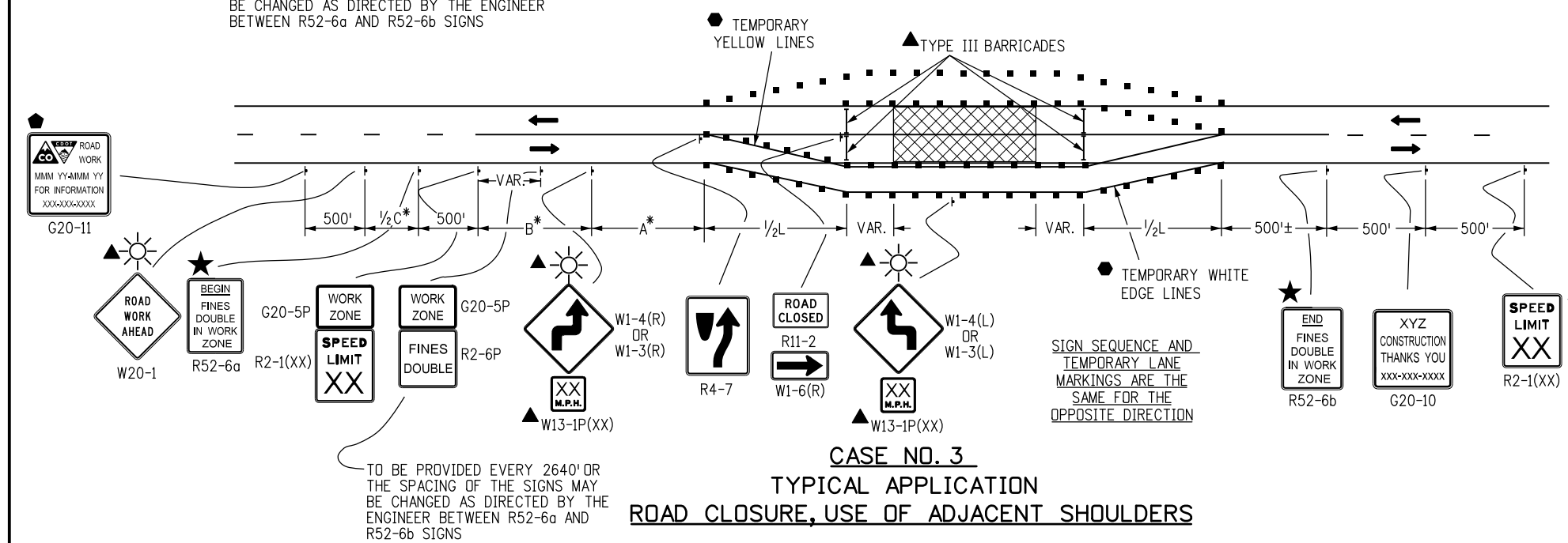
(284)



CASE NO. 2
TYPICAL APPLICATION
CLOSURE OF HALF OF 4-LANE UNDIVIDED HIGHWAY

TO BE PROVIDED EVERY 2640' OR THE SPACING OF THE SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER BETWEEN R52-6a AND R52-6b SIGNS

TO BE PROVIDED EVERY 2640' OR THE SPACING OF THE SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER BETWEEN R52-6a AND R52-6b SIGNS



CASE NO. 3
TYPICAL APPLICATION
ROAD CLOSURE, USE OF ADJACENT SHOULDERS

TO BE PROVIDED EVERY 2640' OR THE SPACING OF THE SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER BETWEEN R52-6a AND R52-6b SIGNS

SIGN SEQUENCE AND TEMPORARY LANE MARKINGS ARE THE SAME FOR THE OPPOSITE DIRECTION

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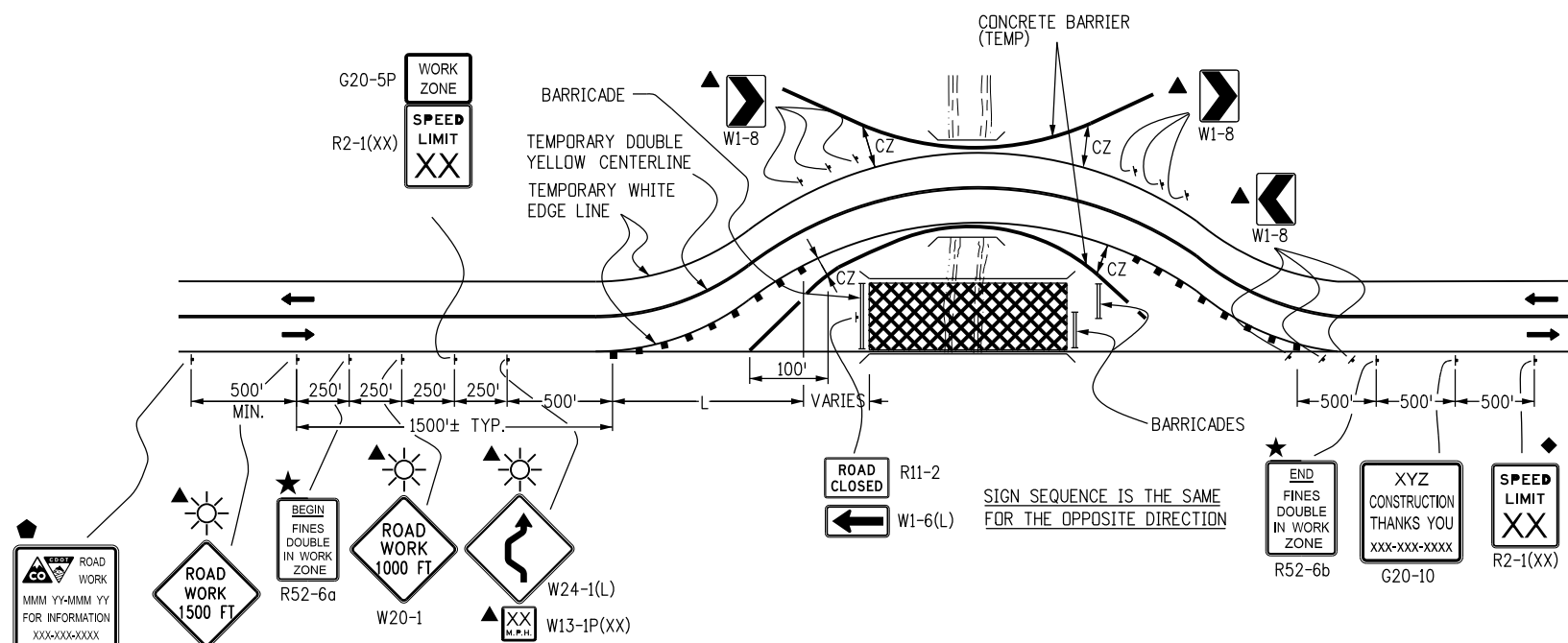
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TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

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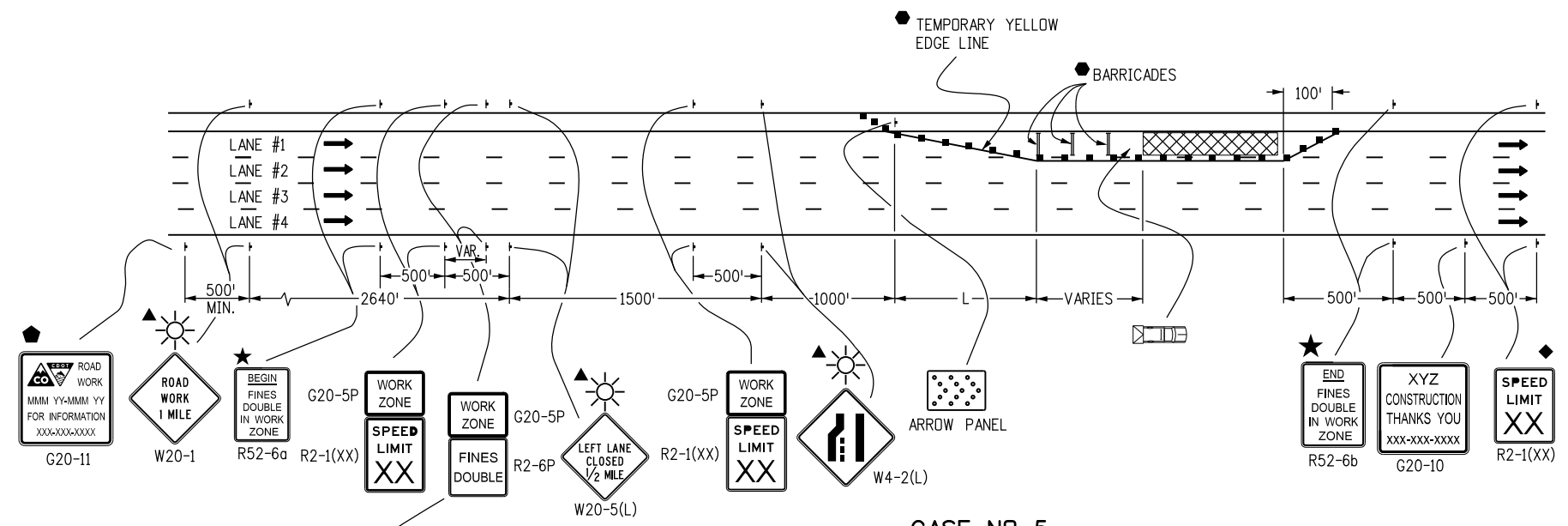
STANDARD PLAN NO.
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Sheet No. 4 of 24



CASE NO. 4
TYPICAL APPLICATION
ROAD CLOSURE, BYPASS DETOUR PROVIDED

LEGEND

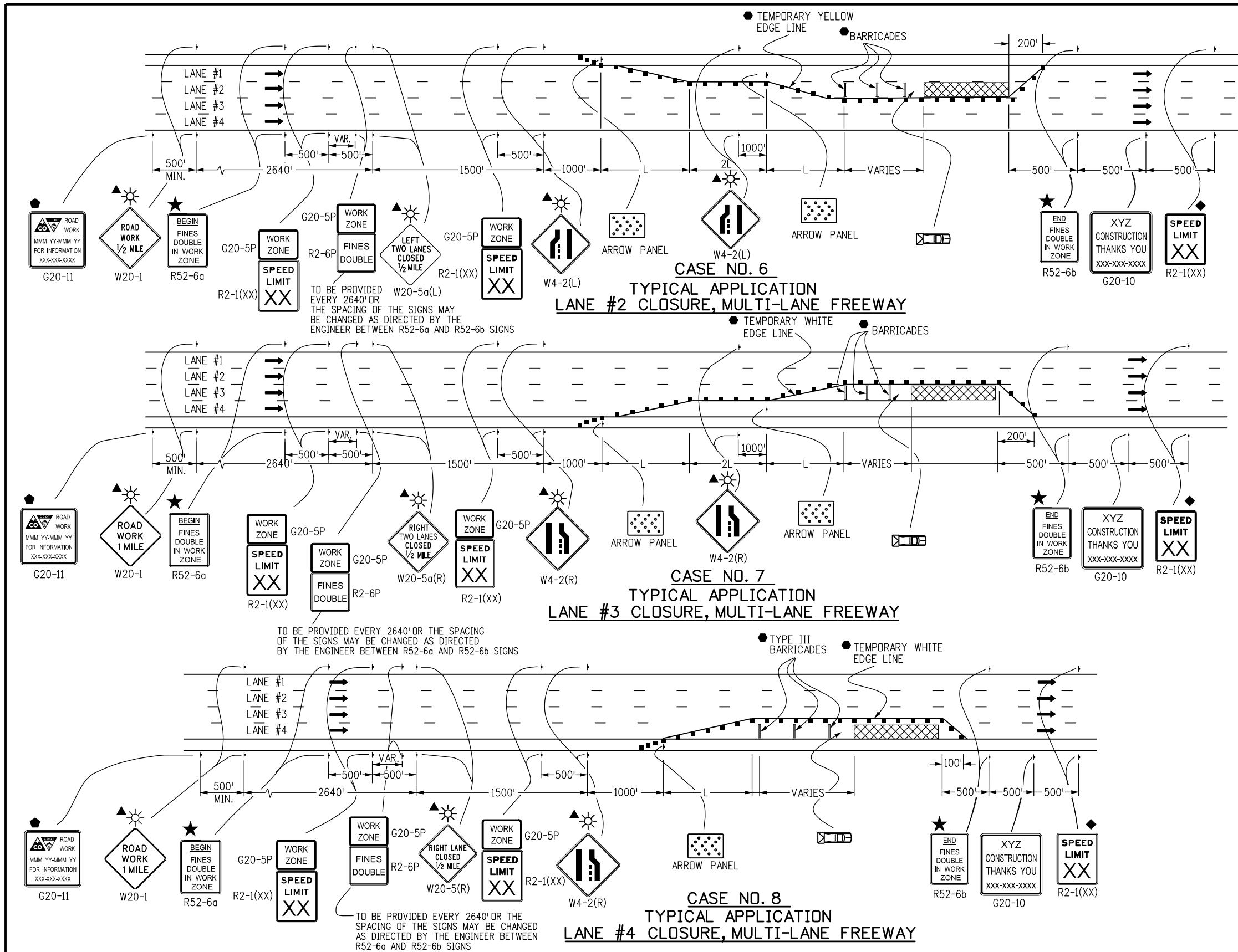
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- TYPE III BARRICADE
- CONCRETE BARRIER (TEMPORARY)
- FLAGGER
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- L TRANSITION TAPER LENGTH:
 L = MINIMUM LENGTH OF TAPER
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
 SHOULDER TAPER = 1/3 L
- ▨ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL
- CZ CLEAR ZONE (SEE GENERAL NOTE 16 ON SHEET 1).
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- VARIES BUFFER SPACE (SEE GENERAL NOTE 21 ON SHEET 1).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ▨ TRUCK MOUNTED ATTENUATOR (TMA)
- ☀ FLASHING BEACON
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.



CASE NO. 5
TYPICAL APPLICATION
LANE #1 CLOSURE, MULTI-LANE FREEWAY

(285)

| | | | | | | |
|--|---------------------|------------------------|-----------|--|--|--------------------------|
| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION | STANDARD PLAN NO. |
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LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
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- ◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ▨ TRUCK MOUNTED ATTENUATOR (TMA)
- ☀ FLASHING BEACON
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

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| (R-X) | |
| (R-X) | |

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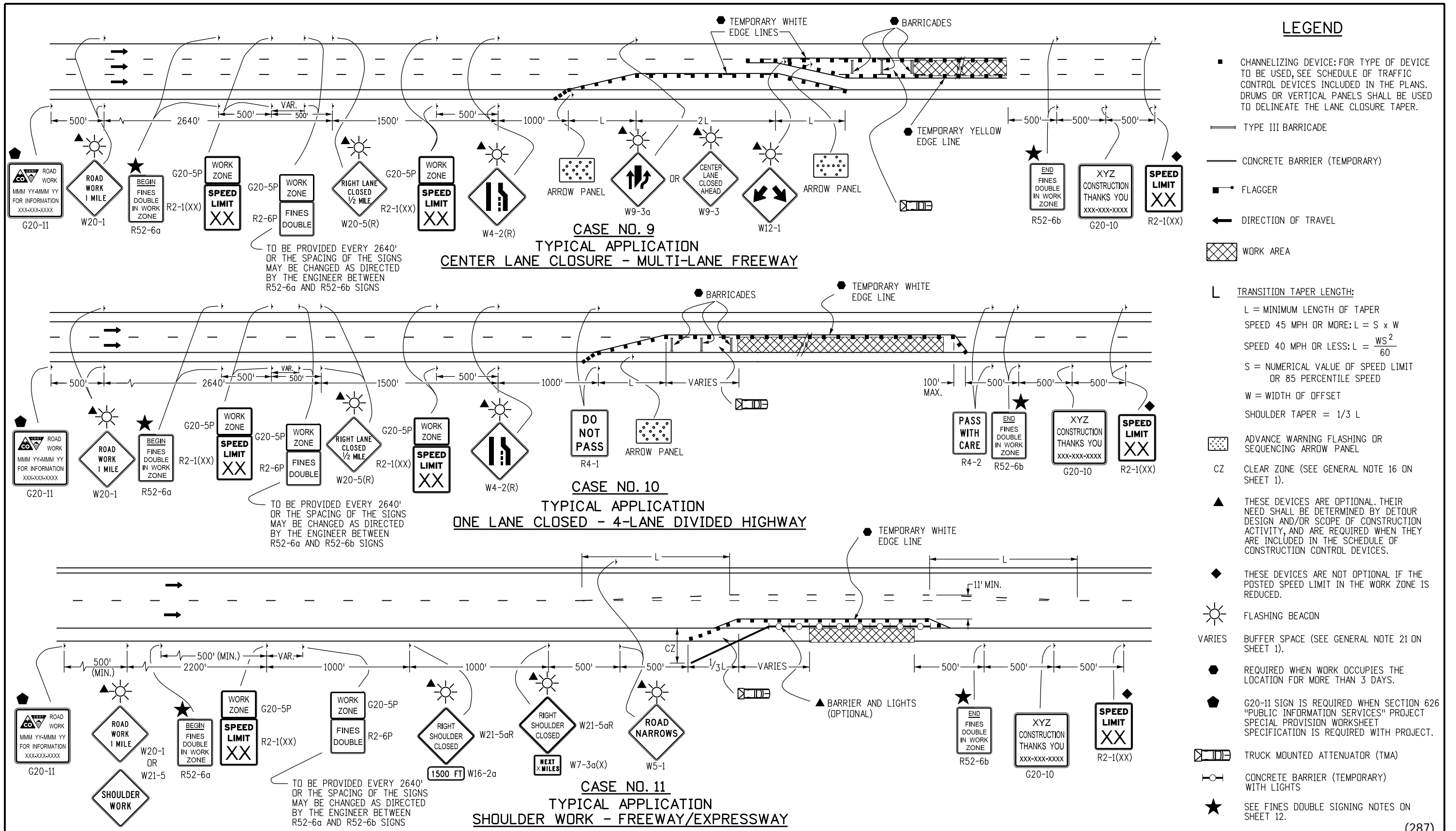
TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

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STANDARD PLAN NO.

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Sheet No. 6 of 24

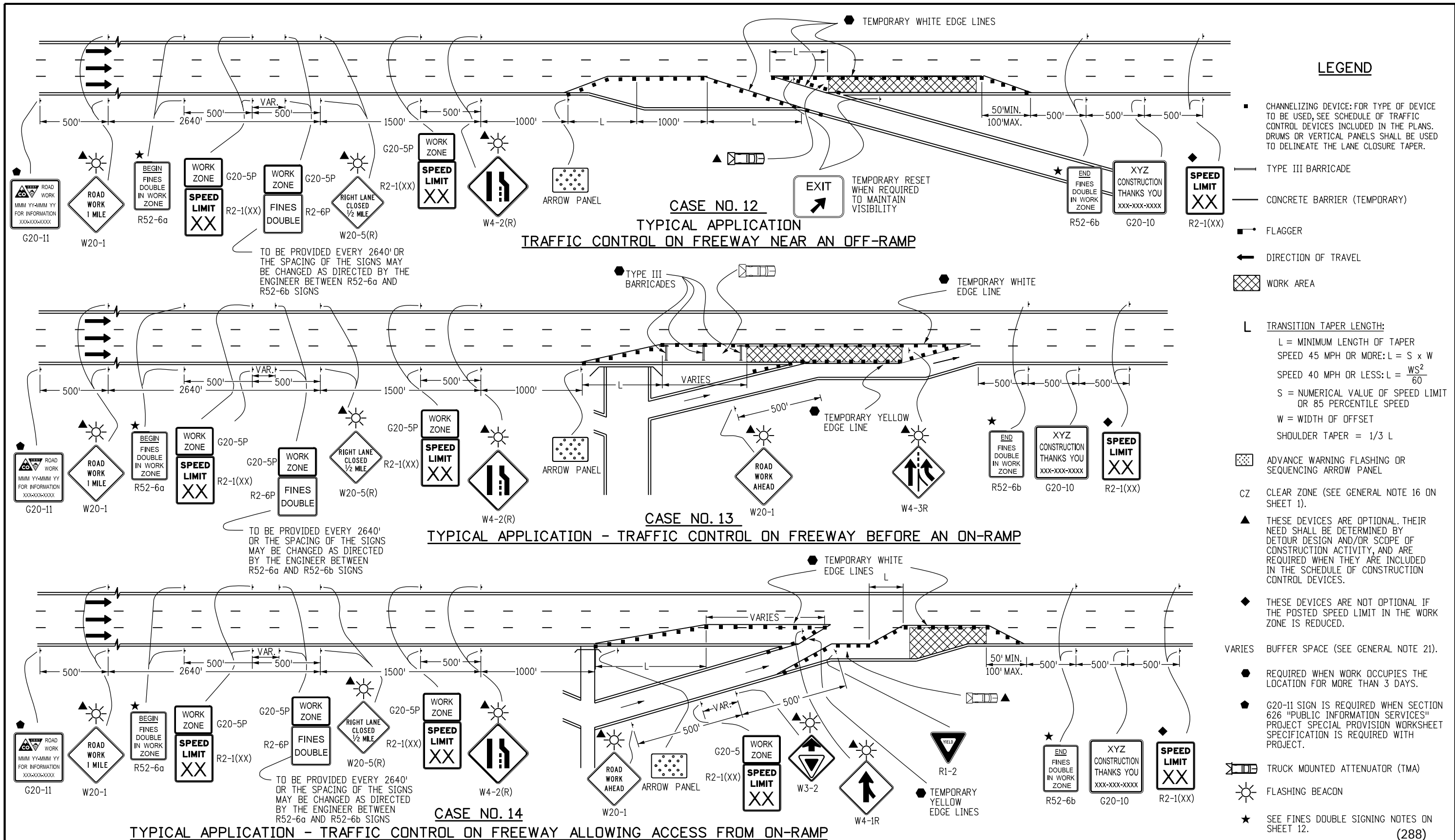


LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
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- VARIES BUFFER SPACE (SEE GENERAL NOTE 21 ON SHEET 1).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ▤ TRUCK MOUNTED ATTENUATOR (TMA)
- CONCRETE BARRIER (TEMPORARY) WITH LIGHTS
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

(287)

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| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | STANDARD PLAN NO. | |
| Creation Date: 07/04/12 | Initials: RRR | Date: | Comments: | | | S-630-1 | |
| Last Modification Date: | Initials: | | | | | Sheet No. 7 of 24 | |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | | | | | | | |
| Drawing File Name: S-630-01_7of24.dgn | | | | | | | |
| CAD Ver.: MicroStation V8 | Scale: Not to Scale | Units: English | | | | | |



LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
- TYPE III BARRICADE
- CONCRETE BARRIER (TEMPORARY)
- FLAGGER
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- L TRANSITION TAPER LENGTH:
L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET
SHOULDER TAPER = 1/3 L
- ▨ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL
- CZ CLEAR ZONE (SEE GENERAL NOTE 16 ON SHEET 1).
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- VARIES BUFFER SPACE (SEE GENERAL NOTE 21).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ▨ TRUCK MOUNTED ATTENUATOR (TMA)
- ☀ FLASHING BEACON
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

Computer File Information

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| Creation Date: 07/04/12 | Initials: KEN |
| Last Modification Date: | Initials: |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | |
| Drawing File Name: S-630-01_8of24.dgn | |
| CAD Ver.: MicroStation V8 | Scale: Not to Scale Units: English |

Sheet Revisions

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Safety & Traffic Engineering Branch KCM/KEN

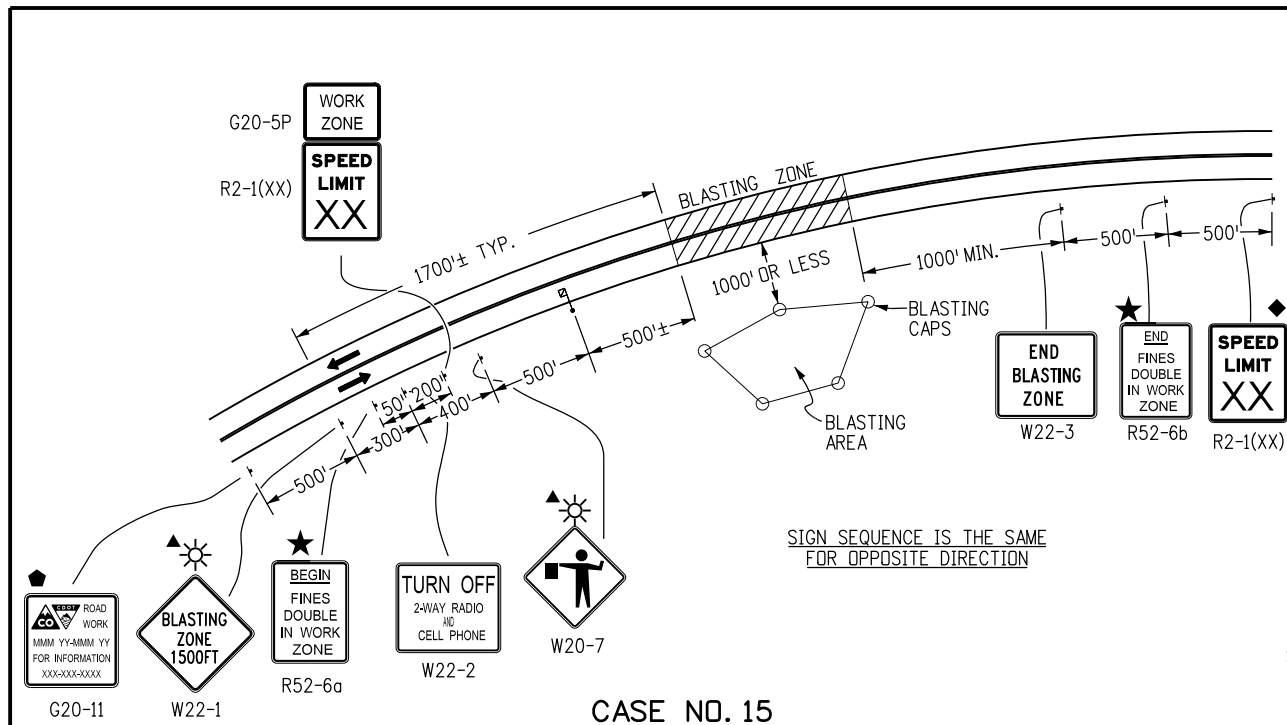
TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

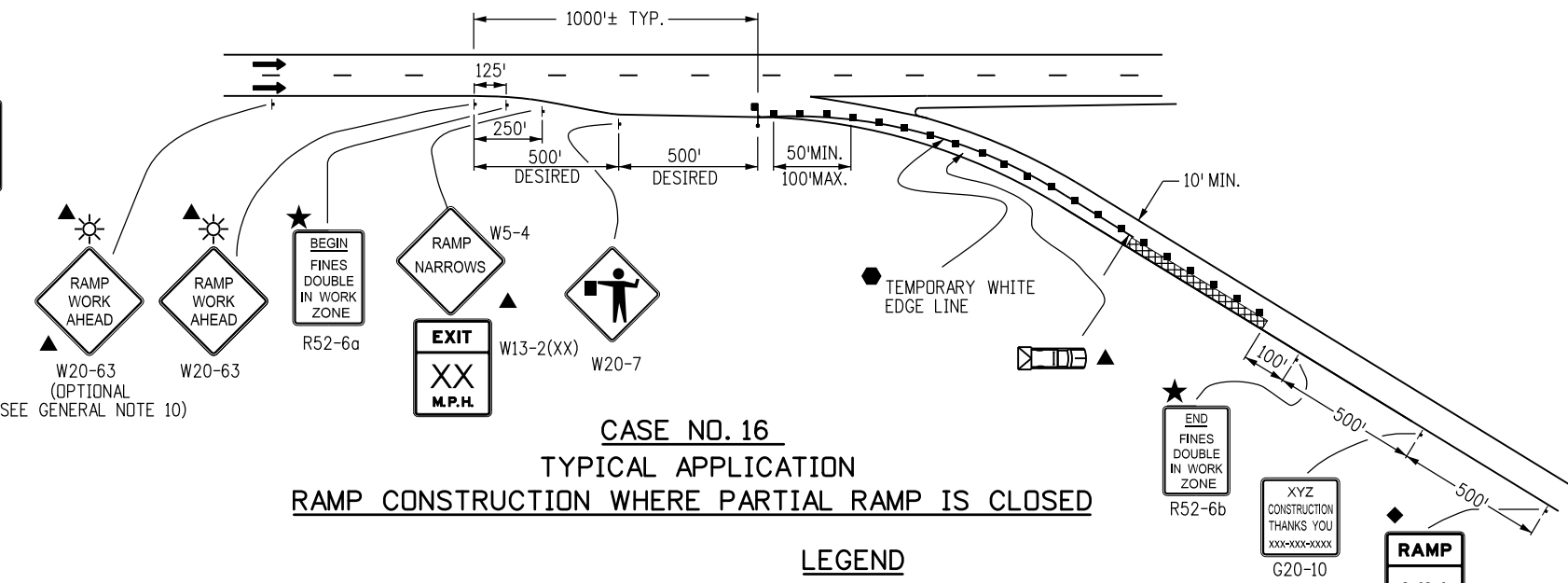
STANDARD PLAN NO.

S-630-1

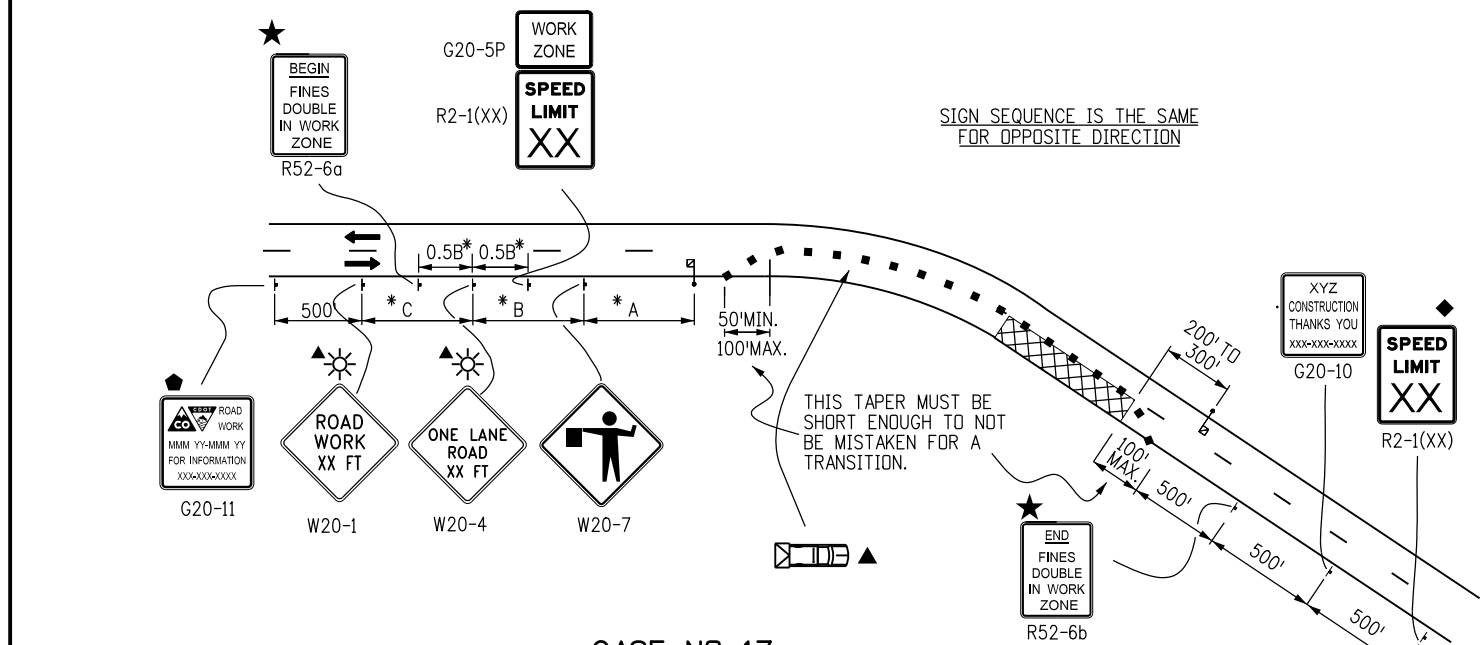
Sheet No. 8 of 24



CASE NO. 15
TYPICAL APPLICATION
BLASTING ZONE



CASE NO. 16
TYPICAL APPLICATION
RAMP CONSTRUCTION WHERE PARTIAL RAMP IS CLOSED



CASE NO. 17
TYPICAL APPLICATION
LANE CLOSURE, 2-LANE HIGHWAY, AT CURVE

LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
- TYPE III BARRICADE
- CONCRETE BARRIER (TEMPORARY)
- FLAGGER
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- L TRANSITION TAPER LENGTH:
L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET
SHOULDER TAPER = 1/3 L
- ▩ TRUCK MOUNTED ATTENUATOR (TMA)
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12
- ▩ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL
- CZ CLEAR ZONE (SEE GENERAL NOTE 16 ON SHEET 1).
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- ☀ FLASHING BEACON
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.

***KEY TO ADVANCE SIGNING DISTANCES**

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<= 40 MPH) | 100 | 100 | 100 |
| URBAN (>= 45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

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| Last Modification Date: 07/26/13 | Initials: KEN |
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| Drawing File Name: S-630-01_9of24.dgn | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | |

Sheet Revisions

| Date: | Comments |
|----------|--|
| 07/26/13 | CORRECTED SIGN CODE DESIGNATION FOR FLAGGER (SYMBOL) SIGN TO W20-7 |
| | |
| | |

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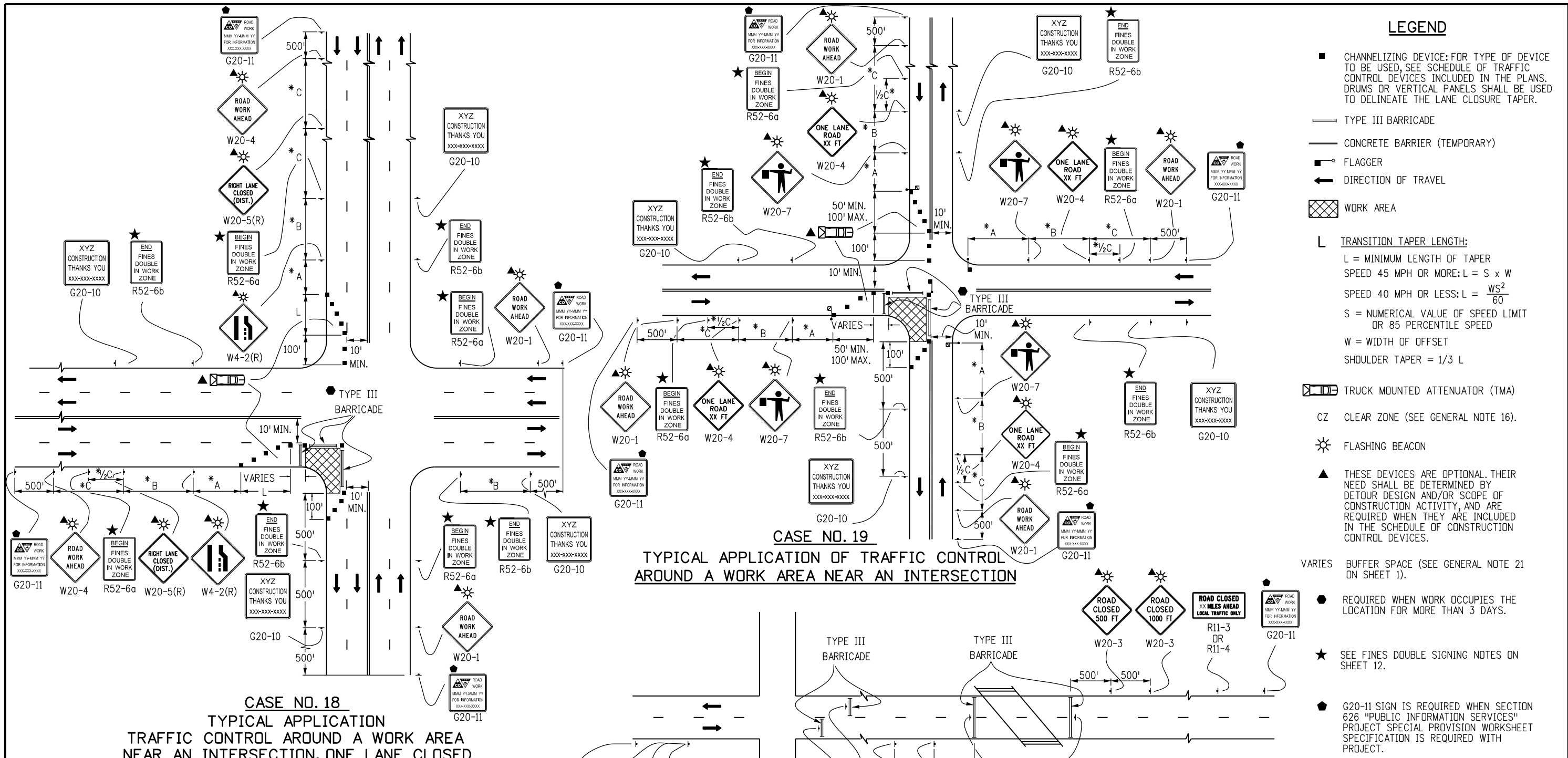
TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

STANDARD PLAN NO.

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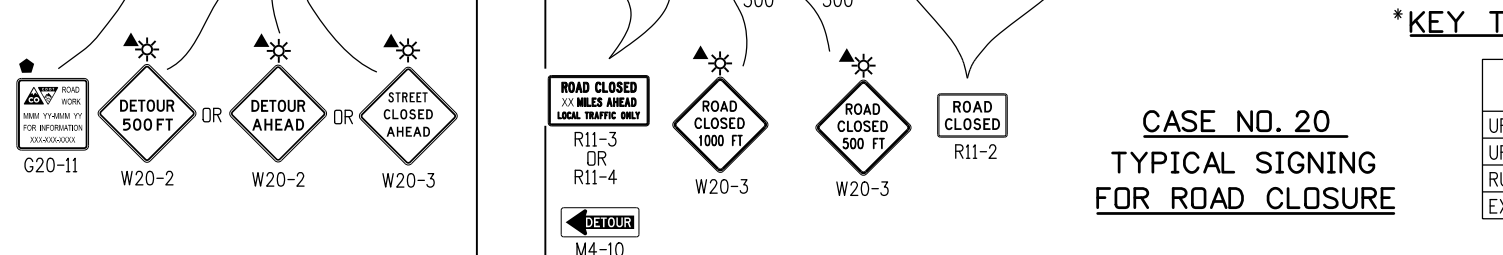
LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
- TYPE III BARRICADE
- CONCRETE BARRIER (TEMPORARY)
- FLAGGER
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- L TRANSITION TAPER LENGTH:
L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET
SHOULDER TAPER = 1/3 L
- ▭ TRUCK MOUNTED ATTENUATOR (TMA)
- CZ CLEAR ZONE (SEE GENERAL NOTE 16).
- ☀ FLASHING BEACON
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- VARIES BUFFER SPACE (SEE GENERAL NOTE 21 ON SHEET 1).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
- G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.

CASE NO. 18
TYPICAL APPLICATION
TRAFFIC CONTROL AROUND A WORK AREA
NEAR AN INTERSECTION, ONE LANE CLOSED

CASE NO. 19
TYPICAL APPLICATION OF TRAFFIC CONTROL
AROUND A WORK AREA NEAR AN INTERSECTION

- NOTES:**
- SIGN PLACEMENT SHOWN ON CASES 18 AND 19 TYPIFIES RURAL APPLICATIONS. URBAN APPLICATIONS REQUIRE THE SIGNS TO BE PLACED WITHIN ONE, OR PERHAPS TWO, BLOCKS.
 - TRUCK-MOUNTED ATTENUATORS (TMA) OPTIONAL FOR ALL CASES AS DETERMINED BY THE ENGINEER.



CASE NO. 20
TYPICAL SIGNING
FOR ROAD CLOSURE

***KEY TO ADVANCE SIGNING DISTANCES**

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<= 40 MPH) | 100 | 100 | 100 |
| URBAN (> 45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

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| Drawing File Name: S-630-01_10of24.dgn | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | |

Sheet Revisions

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| 07/26/13 | CORRECTED SIGN CODE DESIGNATION FOR FLAGGER (SYMBOL) SIGN TO W20-7 |

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TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

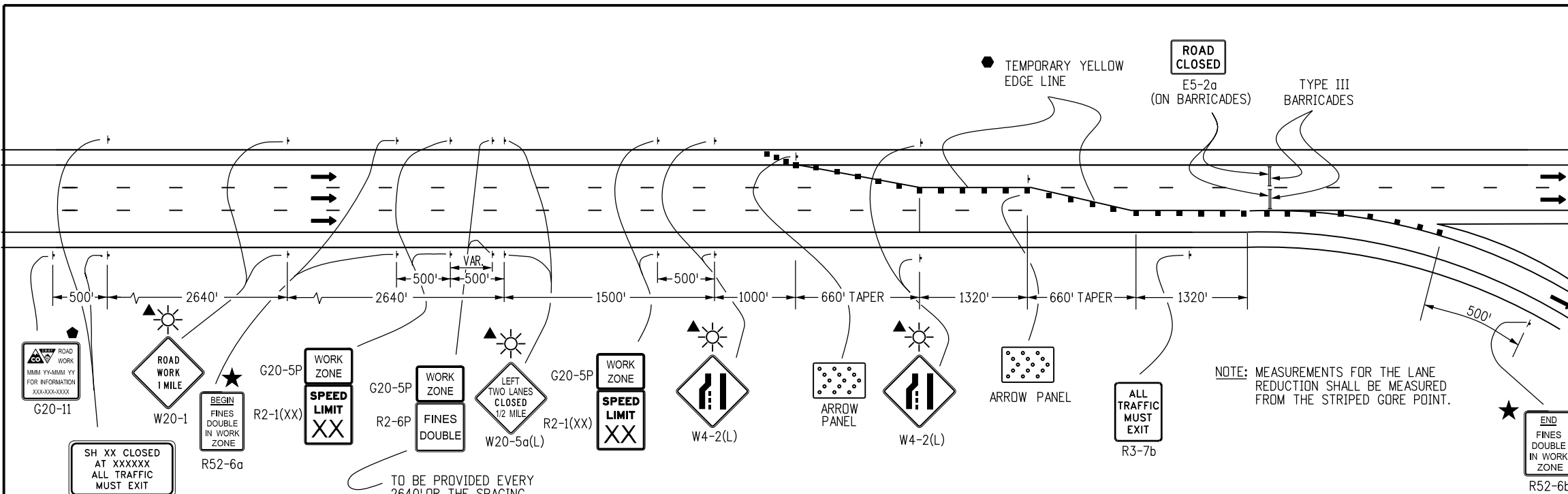
STANDARD PLAN NO.

S-630-1

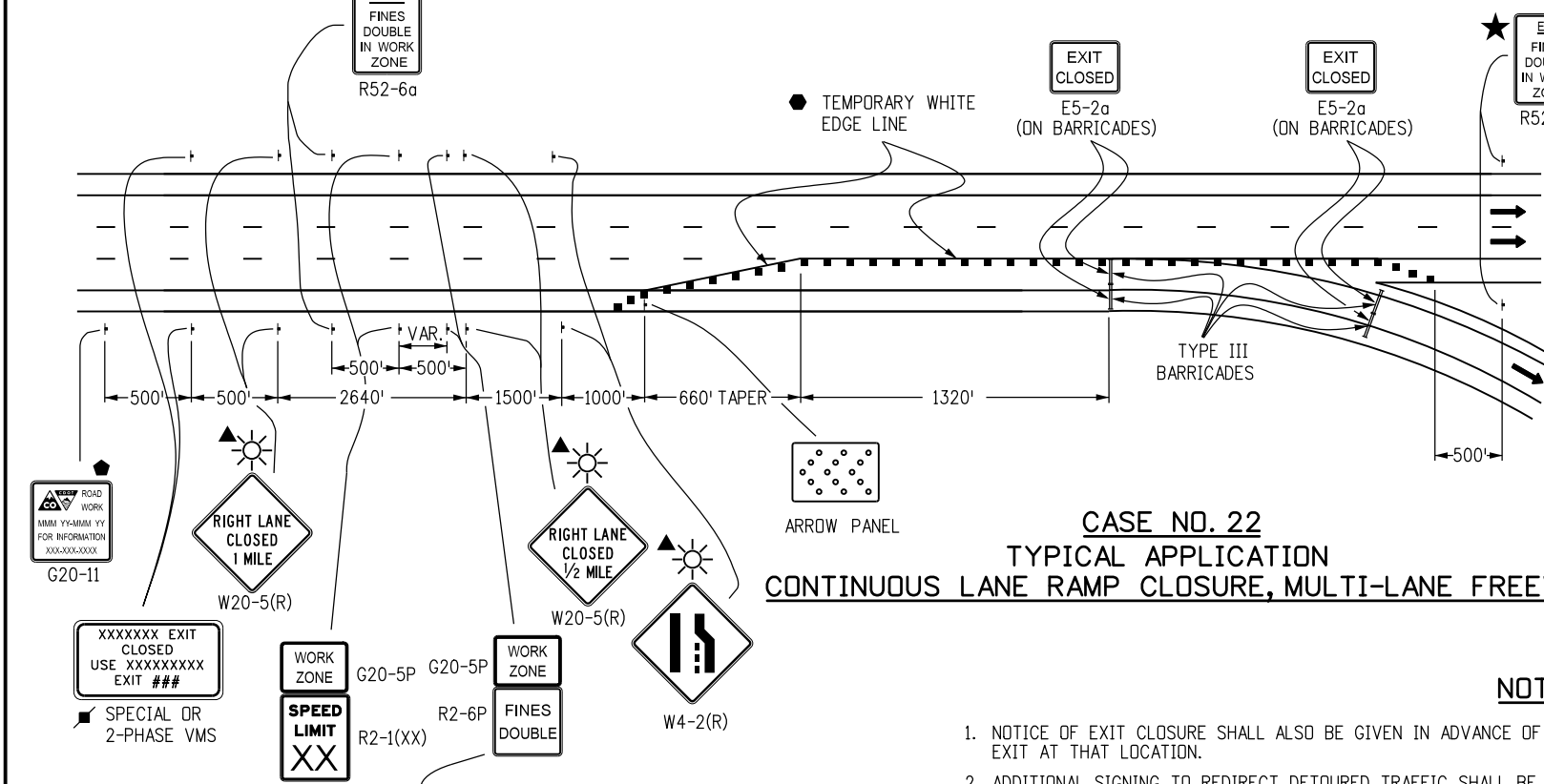
Sheet No. 10 of 24

LEGEND

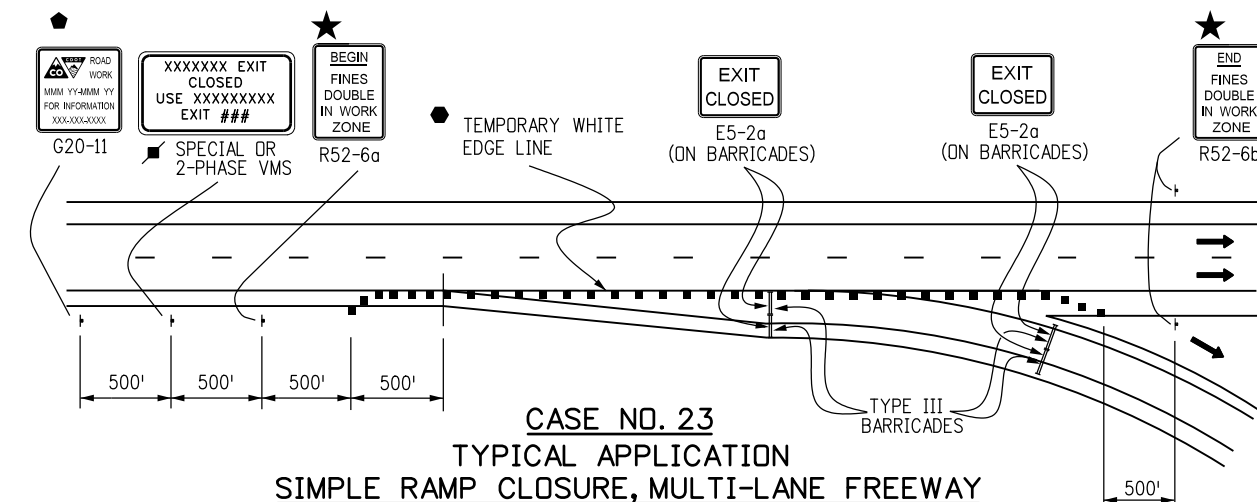
- ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL
- THESE DEVICES ARE OPTIONAL. THEIR NEED WILL BE DETERMINED BY THE DESIGNER BASED ON DETOUR DESIGN AND/OR SCOPE OF THE CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE PLANS.
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- TRANSITION TAPER LENGTH:
 $L = \text{MINIMUM LENGTH OF TAPER}$
 $\text{SPEED 45 MPH OR MORE: } L = S \times W$
 $\text{SPEED 40 MPH OR LESS: } L = \frac{WS^2}{60}$
 $S = \text{NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED}$
 $W = \text{WIDTH OF OFFSET}$
 $\text{SHOULDER TAPER} = 1/3 L$
- CLOSURE AND EXIT MESSAGES ON SIGN LEGEND(S) SHOULD BE MODIFIED TO FIT THE SITUATION.
- FLASHING BEACON
- SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.



CASE NO. 21
TYPICAL APPLICATION
FULL CLOSURE, MULTI-LANE FREEWAY



CASE NO. 22
TYPICAL APPLICATION
CONTINUOUS LANE RAMP CLOSURE, MULTI-LANE FREEWAY



CASE NO. 23
TYPICAL APPLICATION
SIMPLE RAMP CLOSURE, MULTI-LANE FREEWAY

NOTES

1. NOTICE OF EXIT CLOSURE SHALL ALSO BE GIVEN IN ADVANCE OF THE PREVIOUS EXIT TO PROVIDE MOTORISTS WITH THE OPTION TO EXIT AT THAT LOCATION.
2. ADDITIONAL SIGNING TO REDIRECT DETOURED TRAFFIC SHALL BE PROVIDED FOR IN THE PROJECT'S METHOD OF HANDLING TRAFFIC.
3. FOR LONG TERM SETUPS, A BLACK ON ORANGE "EXIT CLOSED" (E5-2a) PANEL SHALL BE MOUNTED DIAGONALLY ACROSS ALL EXISTING GUIDE SIGNS THAT PERTAIN TO THE CLOSED EXIT.

(291)

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| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | STANDARD PLAN NO. | |
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| Last Modification Date: | Initials: | | | | | Sheet No. 11 of 24 | |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | | | | | | | |
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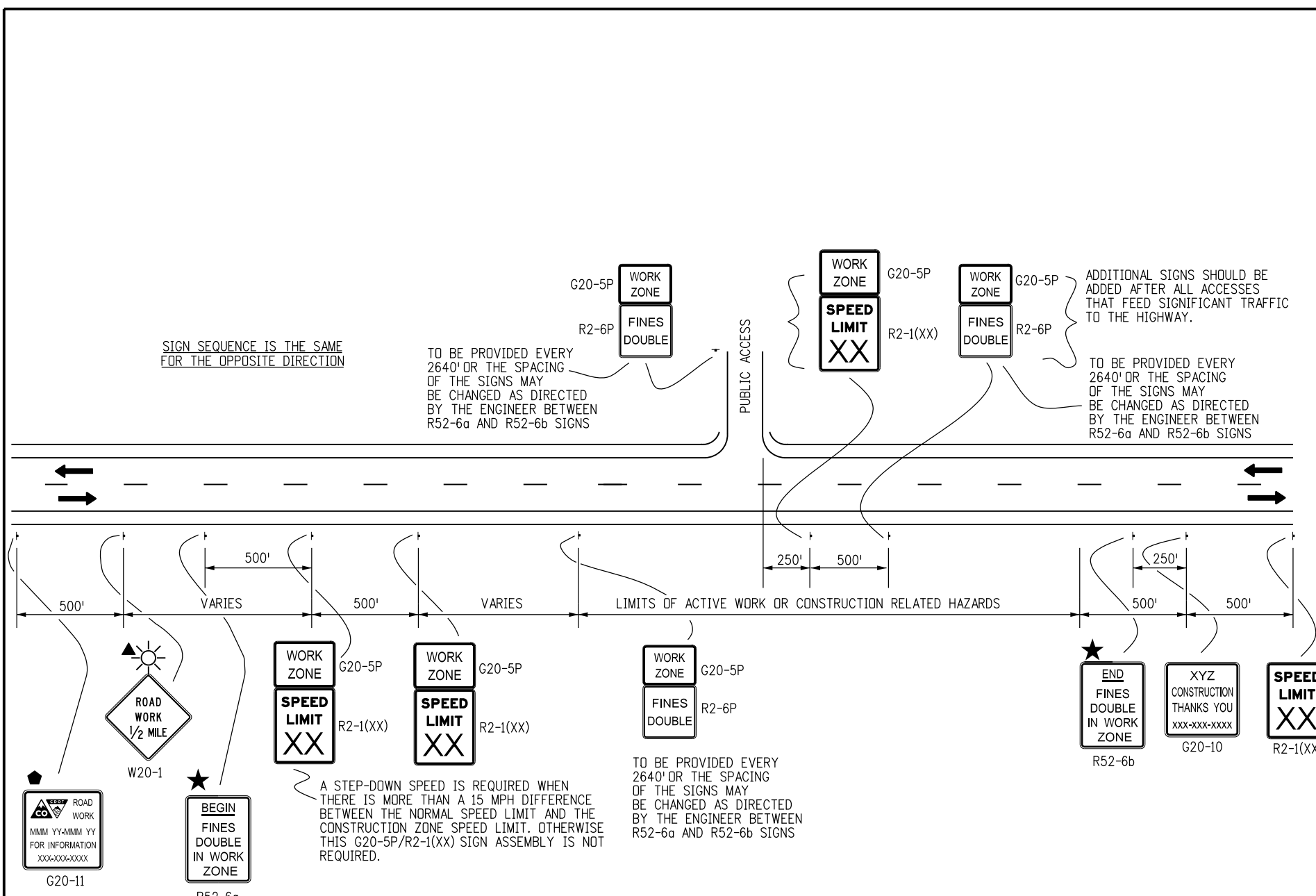
LEGEND

- ← DIRECTION OF TRAVEL
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED WILL BE DETERMINED BY THE DESIGNER BASED ON DETOUR DESIGN AND/OR SCOPE OF THE CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE PLANS.
- ◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ☀ FLASHING BEACON
- ★ FINES DOUBLE SIGNING NOTES, SEE BELOW

FINES DOUBLE SIGNING NOTES:

1. SIGNS SHALL NOT BE PLACED SOONER THAN FOUR HOURS BEFORE WORK IS TO BEGIN AND SHALL BE REMOVED AS SOON AS WORK ACTIVITIES ARE CONCLUDED, UNLESS POTENTIAL HAZARDS INTRODUCED AS A RESULT OF THE WORK ARE STILL PRESENT AT THE END OF THE WORK DAY. IF SIGNS ARE LEFT IN PLACE AFTER WORK ACTIVITIES, THE TRAFFIC CONTROL SUPERVISOR SHALL MAKE AN ENTRY IN THEIR DAILY DIARY THAT JUSTIFIES THEIR USE.

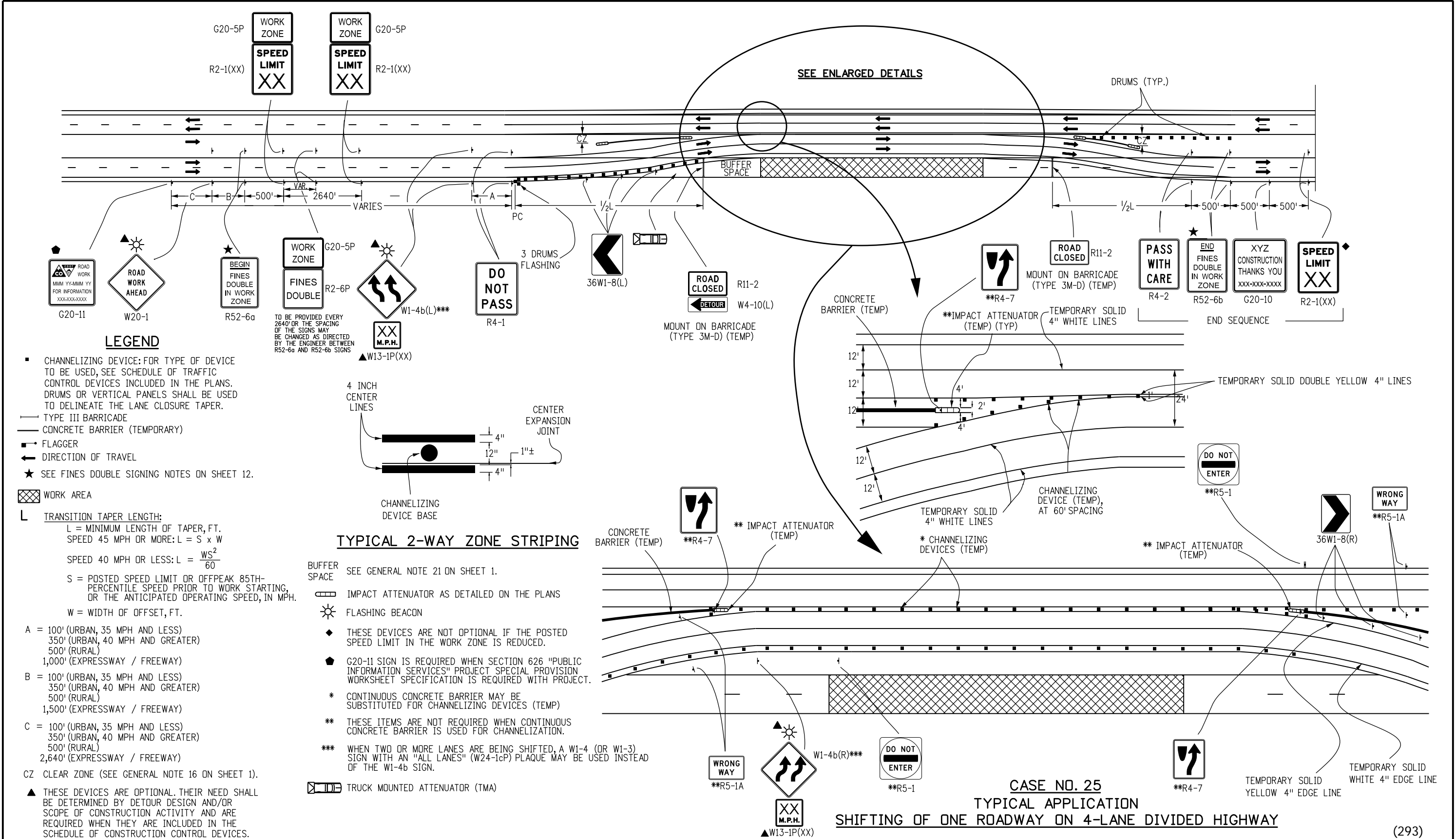
"HAZARDS" INCLUDE BUT ARE NOT LIMITED TO:
EDGE DROP OFFS
EQUIPMENT, WORKERS OR NON-SHIELDED OBJECTS IN THE CLEAR ZONE
ROUGH PAVEMENT
MAJOR CHANGE IN ALIGNMENT
REDUCED SHOULDER WIDTH
TEMPORARY GUARD RAIL OR BARRIER
LANE CLOSURE
2. SIGNS SHALL ONLY BE PLACED WHERE WORKERS ARE PRESENT IN THE ROADWAY OR CLEAR ZONE OR ARE AT RISK, OR WHERE THERE ARE HAZARDS IN THE TRAVELWAY, SHOULDERS OR CLEAR ZONE.
3. SIGNS SHOULD BE PLACED SO THAT MOTORISTS IMMEDIATELY ASSOCIATE THE SIGNS WITH PRESENT WORK ACTIVITIES. IF THE ZONE OF WORK ACTIVITY MOVES, THE SIGNS SHOULD BE MOVED ACCORDINGLY.
4. SIGNING SHOWN IS REQUIRED TO ENFORCE DOUBLE FINES IN A WORK ZONE. ADDITIONAL SIGNING SHALL BE IN ACCORDANCE WITH THAT NORMALLY REQUIRED FOR THE PARTICULAR WORK ZONE. PLACEMENT OF "FINES DOUBLE" SIGNING MAY BE ADJUSTED AS NEEDED TO PROVIDE A MINIMUM 250' SPACING BETWEEN OTHER SIGNING REQUIRED FOR THE SPECIFIC WORK ZONE SETUP.



**CASE NO. 24
TYPICAL APPLICATION
"FINES DOUBLE IN WORK ZONE" SIGNING
(WITH SPEED REDUCTION)**

(292)

| Computer File Information Creation Date: 07/04/12 Initials: RRR Last Modification Date: Initials: Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans Drawing File Name: S-630-01_12of24.dgn CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | | Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> | | Date: | Comments | | | | | | | | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | | STANDARD PLAN NO. S-630-1 Sheet No. 12 of 24 | |
|--|----------|---|--|-------|----------|--|--|--|--|--|--|--|--|---|--|---|--|---|--|
| Date: | Comments | | | | | | | | | | | | | | | | | | |
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LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
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- CONCRETE BARRIER (TEMPORARY)
- FLAGGER
- ← DIRECTION OF TRAVEL
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
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 $L = \text{MINIMUM LENGTH OF TAPER, FT.}$
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 $S = \text{POSTED SPEED LIMIT OR OFFPEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED, IN MPH.}$
 $W = \text{WIDTH OF OFFSET, FT.}$
- A = 100' (URBAN, 35 MPH AND LESS)
 350' (URBAN, 40 MPH AND GREATER)
 500' (RURAL)
 1,000' (EXPRESSWAY / FREEWAY)
- B = 100' (URBAN, 35 MPH AND LESS)
 350' (URBAN, 40 MPH AND GREATER)
 500' (RURAL)
 1,500' (EXPRESSWAY / FREEWAY)
- C = 100' (URBAN, 35 MPH AND LESS)
 350' (URBAN, 40 MPH AND GREATER)
 500' (RURAL)
 2,640' (EXPRESSWAY / FREEWAY)
- CZ CLEAR ZONE (SEE GENERAL NOTE 16 ON SHEET 1).
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.

TYPICAL 2-WAY ZONE STRIPING

- SEE GENERAL NOTE 21 ON SHEET 1.
- IMPACT ATTENUATOR AS DETAILED ON THE PLANS
- FLASHING BEACON
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- ◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- * CONTINUOUS CONCRETE BARRIER MAY BE SUBSTITUTED FOR CHANNELIZING DEVICES (TEMP)
- ** THESE ITEMS ARE NOT REQUIRED WHEN CONTINUOUS CONCRETE BARRIER IS USED FOR CHANNELIZATION.
- *** WHEN TWO OR MORE LANES ARE BEING SHIFTED, A W1-4 (OR W1-3) SIGN WITH AN "ALL LANES" (W24-1cP) PLAQUE MAY BE USED INSTEAD OF THE W1-4b SIGN.
- TRUCK MOUNTED ATTENUATOR (TMA)

CASE NO. 25
TYPICAL APPLICATION
SHIFTING OF ONE ROADWAY ON 4-LANE DIVIDED HIGHWAY

(293)

| Computer File Information | |
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| 02/06/13 | UPDATE TO 2009 MUTCD STANDARD |
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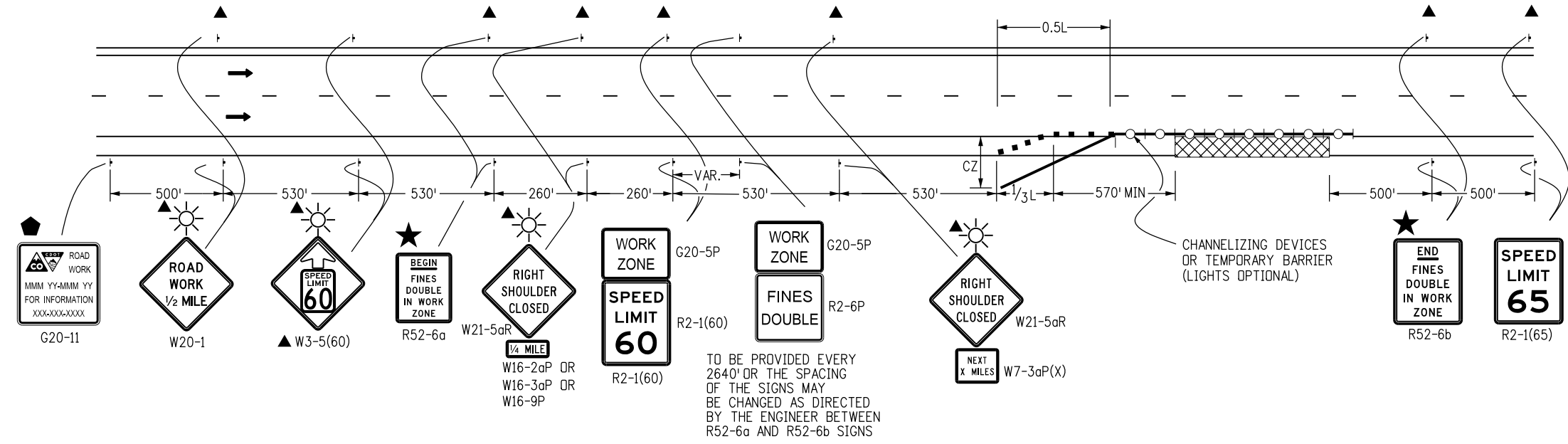
TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

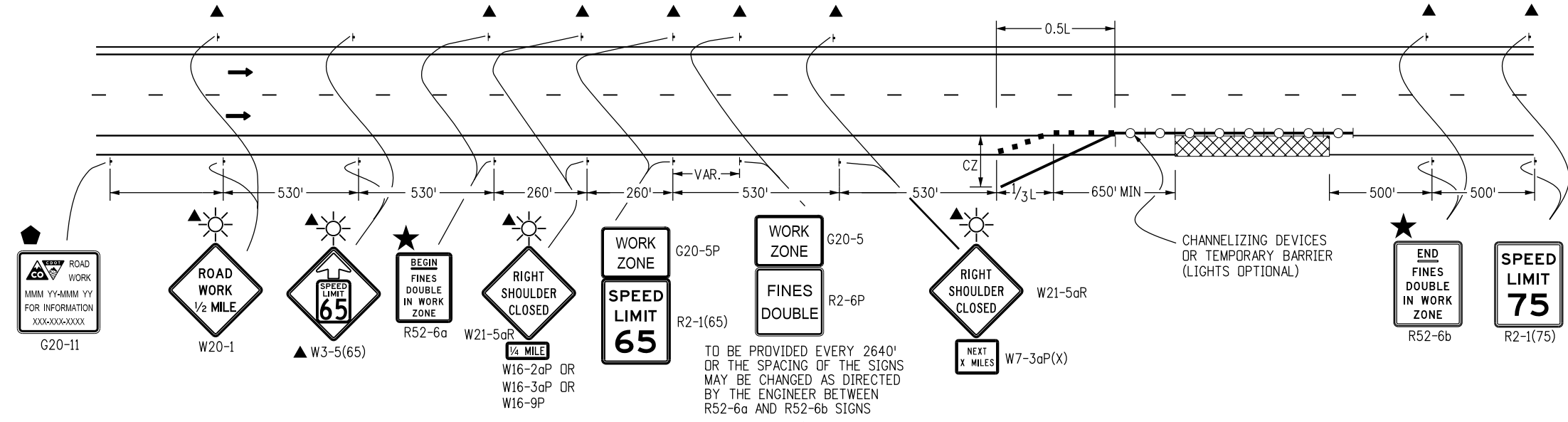
| STANDARD PLAN NO. |
|--------------------|
| S-630-1 |
| Sheet No. 13 of 24 |

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- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ▩ TRUCK MOUNTED ATTENUATOR
- ☀ FLASHING BEACON
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.



CASE NO. 26
TYPICAL APPLICATION
SHOULDER WORK - FREEWAY/EXPRESSWAY w/ 65 MPH SPEED LIMIT
 WHEN HAZARDS (WORKERS, EQUIPMENT, OR TEMPORARY BARRIER) ARE WITHIN 8 FT OF TRAVEL WAY



CASE NO. 27
TYPICAL APPLICATION
SHOULDER WORK - FREEWAY/EXPRESSWAY w/ 75 MPH SPEED LIMIT
 WHEN HAZARDS (WORKERS, EQUIPMENT, OR TEMPORARY BARRIER) ARE WITHIN 10 FT OF TRAVEL WAY

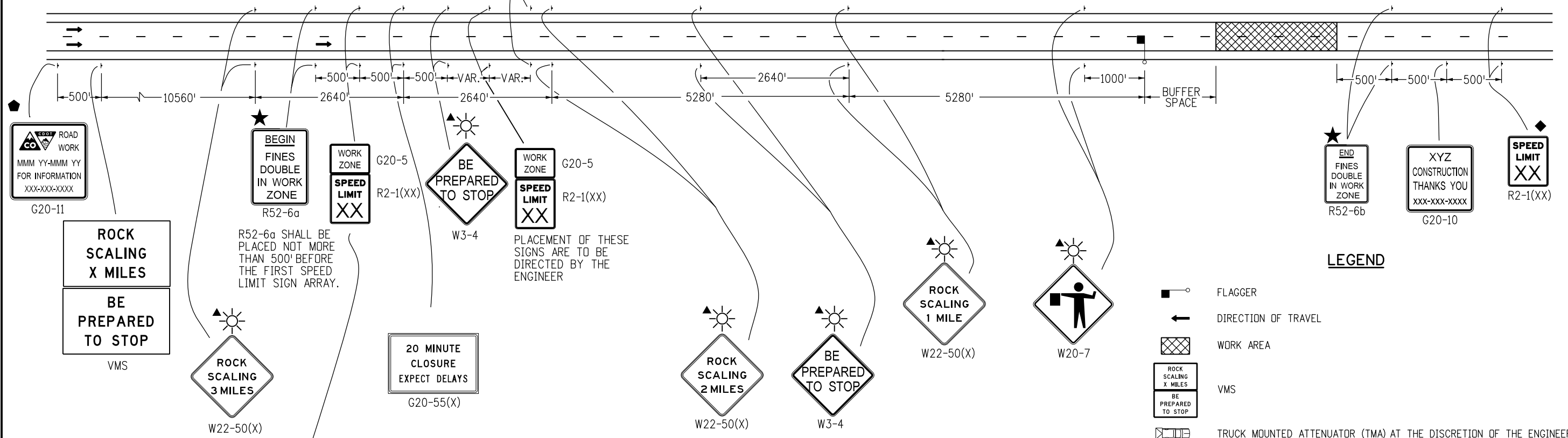
(294)

| Computer File Information Creation Date: 07/04/12 Initials: RRR Last Modification Date: Initials: Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans Drawing File Name: S-630-01_14of24.dgn CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | | Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> | | Date: | Comments | | | | | | | | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | | STANDARD PLAN NO. S-630-1 Sheet No. 14 of 24 | |
|--|----------|---|--|-------|----------|--|--|--|--|--|--|--|--|--|--|---|--|---|--|
| Date: | Comments | | | | | | | | | | | | | | | | | | |
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SIGN SEQUENCE IS THE SAME FOR THE OPPOSITE DIRECTION

TO BE PROVIDED EVERY 2640' OR THE SPACING OF THE SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER BETWEEN R52-6a AND R52-6b SIGNS

WORK ZONE G20-5
FINES DOUBLE R2-6



R52-6a SHALL BE PLACED NOT MORE THAN 500' BEFORE THE FIRST SPEED LIMIT SIGN ARRAY.

PLACEMENT OF THESE SIGNS ARE TO BE DIRECTED BY THE ENGINEER

A STEP-DOWN SPEED LIMIT IS REQUIRED WHEN THERE IS MORE THAN A 15 MPH DIFFERENCE BETWEEN THE NORMAL SPEED LIMIT AND THE CONSTRUCTION ZONE SPEED LIMIT. OTHERWISE THIS G20-5P/R2-1(XX) SIGN ASSEMBLY IS NOT REQUIRED.

LEGEND

- FLAGGER
- DIRECTION OF TRAVEL
- WORK AREA
- ROCK SCALING X MILES
- BE PREPARED TO STOP
- TRUCK MOUNTED ATTENUATOR (TMA) AT THE DISCRETION OF THE ENGINEER
- THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- BUFFER SPACE SEE GENERAL NOTE 21 ON SHEET 1.
- FLASHING BEACON
- SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

CASE NO. 28
TYPICAL APPLICATION
ROCK SCALING - ROAD CLOSURE, 4-LANE DIVIDED HIGHWAY

(295)

| Computer File Information | |
|--|---------------|
| Creation Date: 07/04/12 | Initials: RRR |
| Last Modification Date: 07/26/13 | Initials: KEN |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | |
| Drawing File Name: S-630-01_15of24.dgn | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | |

| Sheet Revisions | |
|-----------------|--|
| Date: | Comments |
| 07/26/13 | CORRECTED SIGN CODE DESIGNATION FOR FLAGGER (SYMBOL) SIGN TO W20-7 |
| | |
| | |
| | |

Colorado Department of Transportation
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DEPARTMENT OF TRANSPORTATION

Safety & Traffic Engineering Branch KCM/KEN

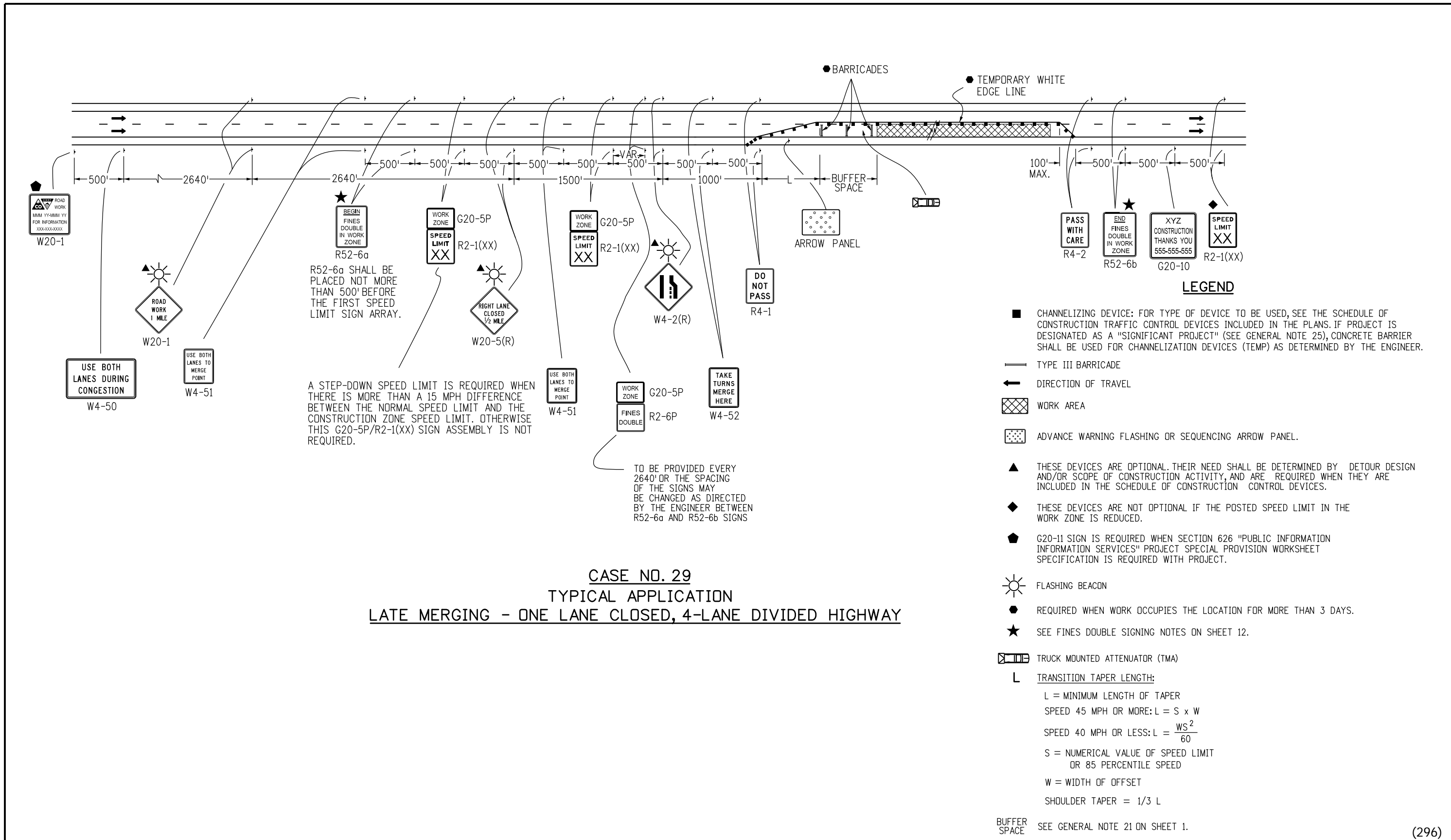
TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

STANDARD PLAN NO.

S-630-1

Sheet No. 15 of 24



(296)

| Computer File Information | |
|--|------------------------------------|
| Creation Date: 07/04/12 | Initials: RRR |
| Last Modification Date: | Initials: |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | |
| Drawing File Name: S-630-01_16of24.dgn | |
| CAD Ver.: MicroStation V8 | Scale: Not to Scale Units: English |

| Sheet Revisions | |
|-----------------|----------|
| Date: | Comments |
| (R-X) | |
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| (R-X) | |
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Safety & Traffic Engineering Branch **KCM/KEN**

**TRAFFIC CONTROLS
FOR HIGHWAY
CONSTRUCTION**

Issued By: Safety & Traffic Engineering Branch July 4, 2012

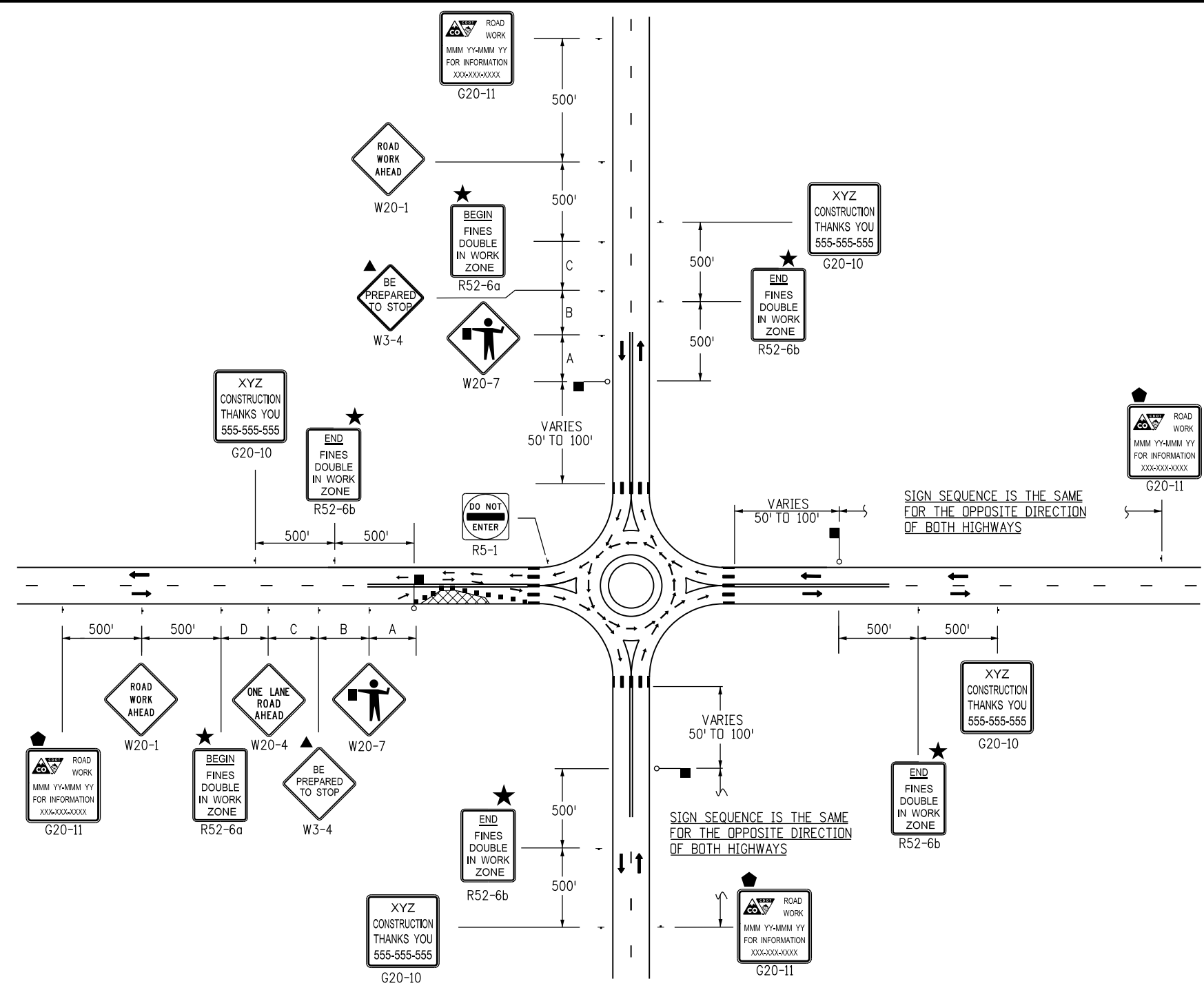
STANDARD PLAN NO.

S-630-1

Sheet No. 16 of 24

LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 25), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
- TYPE III BARRICADE
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ☀ FLASHING BEACON
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
- ▤ TRUCK MOUNTED ATTENUATOR (TMA)
- L TRANSITION TAPER LENGTH:
 L = MINIMUM LENGTH OF TAPER
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
 SHOULDER TAPER = 1/3 L
- ▭ BUFFER SPACE SEE GENERAL NOTE 21 ON SHEET 1.
- FLAGGER

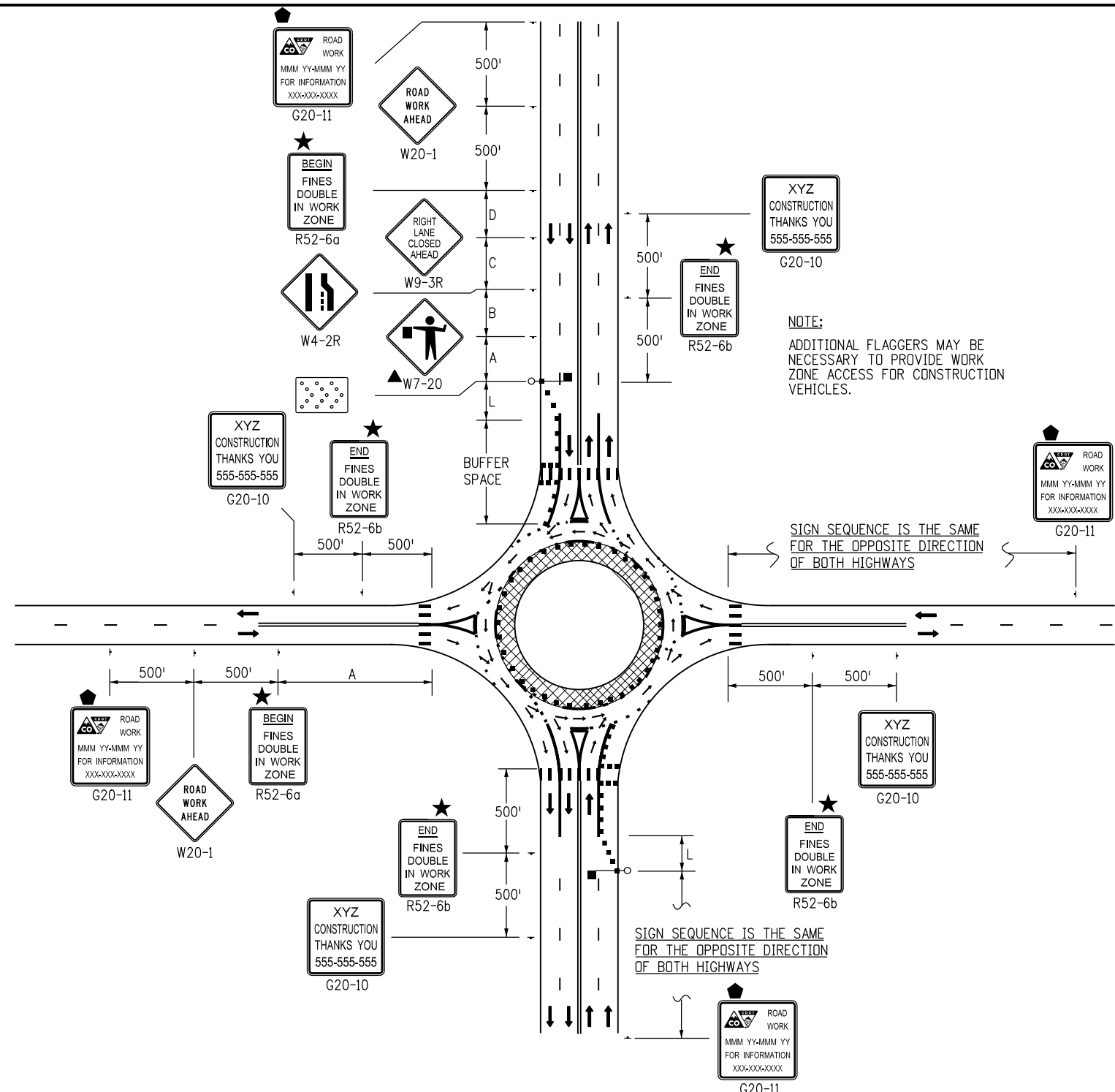


CASE NO. 30
TYPICAL APPLICATION
ROUNDBOUT - PARTIAL CLOSURE NEAR ONE-LANE ROUNDBOUT

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<= 40 MPH) | 100 | 100 | 100 |
| URBAN (>= 45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

(297)

| Computer File Information Creation Date: 07/04/12 Initials: KEN Last Modification Date: 12/08/14 Initials: KEN Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans Drawing File Name: S-630-01_17of24.dgn CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Date:</th> <th>Comments</th> </tr> <tr> <td>12/08/14</td> <td>NEW SHEET 17. OLD SHEET 17 NOW SHEET 21</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> | Date: | Comments | 12/08/14 | NEW SHEET 17. OLD SHEET 17 NOW SHEET 21 | | | | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | STANDARD PLAN NO. S-630-1 Sheet No. 17 of 24 |
|---|---|-------|----------|----------|---|--|--|--|--|---|---|---|
| Date: | Comments | | | | | | | | | | | |
| 12/08/14 | NEW SHEET 17. OLD SHEET 17 NOW SHEET 21 | | | | | | | | | | | |
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LEGEND

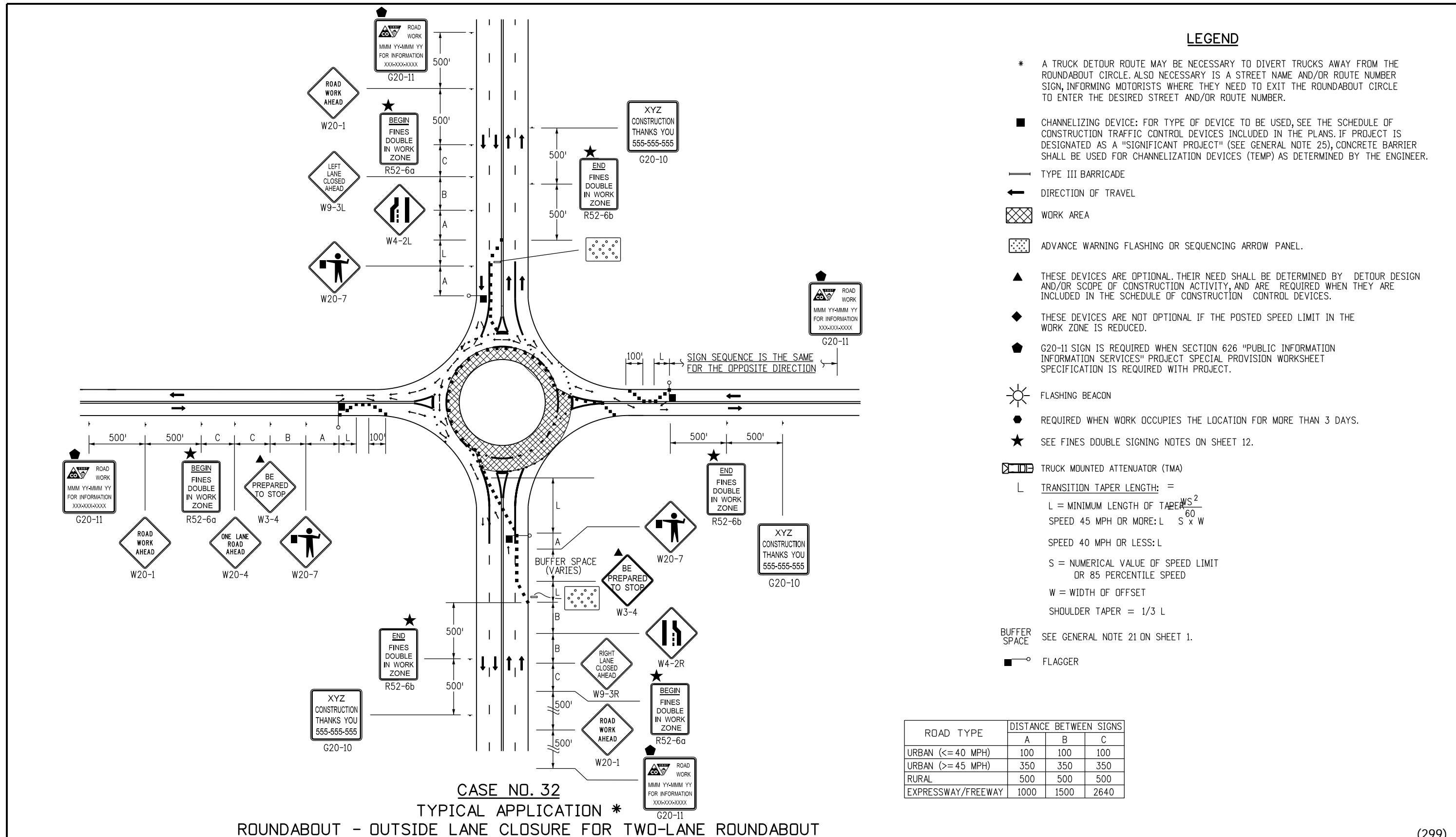
- * A TRUCK DETOUR ROUTE MAY BE NECESSARY TO DIVERT TRUCKS AWAY FROM THE ROUNDABOUT CIRCLE. ALSO NECESSARY IS A STREET NAME AND/OR ROUTE NUMBER SIGN, INFORMING MOTORISTS WHERE THEY NEED TO EXIT THE ROUNDABOUT CIRCLE TO ENTER THE DESIRED STREET AND/OR ROUTE NUMBER.
- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 25), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
- TYPE III BARRICADE
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- ◆ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
- ☀ FLASHING BEACON
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
- ▤ TRUCK MOUNTED ATTENUATOR (TMA)
- L TRANSITION TAPER LENGTH:
 $L = \text{MINIMUM LENGTH OF TAPER}$
 SPEED 45 MPH OR MORE: $L = S^2 W$
 SPEED 40 MPH OR LESS: $L = \text{---}$
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
 SHOULDER TAPER = $1/3 L$
- ▭ BUFFER SPACE SEE GENERAL NOTE 21 ON SHEET 1.
- FLAGGER

CASE NO. 31
TYPICAL APPLICATION *
ROUNDABOUT - INSIDE LANE CLOSURE FOR TWO-LANE ROUNDABOUT

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<= 40 MPH) | 100 | 100 | 100 |
| URBAN (>= 45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

(298)

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|--|--|---|--|---|--|---|--|---------------------------|--|
| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation | | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION | | STANDARD PLAN NO. | |
| Creation Date: 07/04/12 Initials: KEN | | Date: 12/08/14 | | 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 | | S-630-1 Issued By: Safety & Traffic Engineering Branch July 4, 2012 | | Sheet No. 18 of 24 | |
| Last Modification Date: 12/08/14 Initials: KEN | | Comments: NEW SHEET 18. OLD SHEET 18 NOW SHEET 22 | | | | | | | |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | | | | | | | | | |
| Drawing File Name: S-630-01_18of24.dgn | | | | | | | | | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | | | | Safety & Traffic Engineering Branch KCM/KEN | | | | | |



CASE NO. 32
TYPICAL APPLICATION *
ROUNDABOUT - OUTSIDE LANE CLOSURE FOR TWO-LANE ROUNDABOUT

- LEGEND**
- * A TRUCK DETOUR ROUTE MAY BE NECESSARY TO DIVERT TRUCKS AWAY FROM THE ROUNDABOUT CIRCLE. ALSO NECESSARY IS A STREET NAME AND/OR ROUTE NUMBER SIGN, INFORMING MOTORISTS WHERE THEY NEED TO EXIT THE ROUNDABOUT CIRCLE TO ENTER THE DESIRED STREET AND/OR ROUTE NUMBER.
 - CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 25), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
 - TYPE III BARRICADE
 - ← DIRECTION OF TRAVEL
 - ▨ WORK AREA
 - ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
 - ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
 - ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
 - G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
 - ☀ FLASHING BEACON
 - REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
 - ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
 - ▤ TRUCK MOUNTED ATTENUATOR (TMA)
 - L TRANSITION TAPER LENGTH: = $L = \text{MINIMUM LENGTH OF TAPER} \frac{WS^2}{60S \times W}$
 SPEED 45 MPH OR MORE: $L = \frac{WS^2}{60S \times W}$
 SPEED 40 MPH OR LESS: L
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
 SHOULDER TAPER = 1/3 L
 - ▤ BUFFER SPACE SEE GENERAL NOTE 21 ON SHEET 1.
 - ▤ FLAGGER

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<= 40 MPH) | 100 | 100 | 100 |
| URBAN (>= 45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

Computer File Information

| | |
|--|---------------|
| Creation Date: 07/04/12 | Initials: KEN |
| Last Modification Date: 12/08/14 | Initials: KEN |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | |
| Drawing File Name: S-630-01_19of24.dgn | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | |

Sheet Revisions

| Date: | Comments |
|----------|---|
| 12/08/14 | NEW SHEET 19. OLD SHEET 19 NOW SHEET 23 |
| | |
| | |

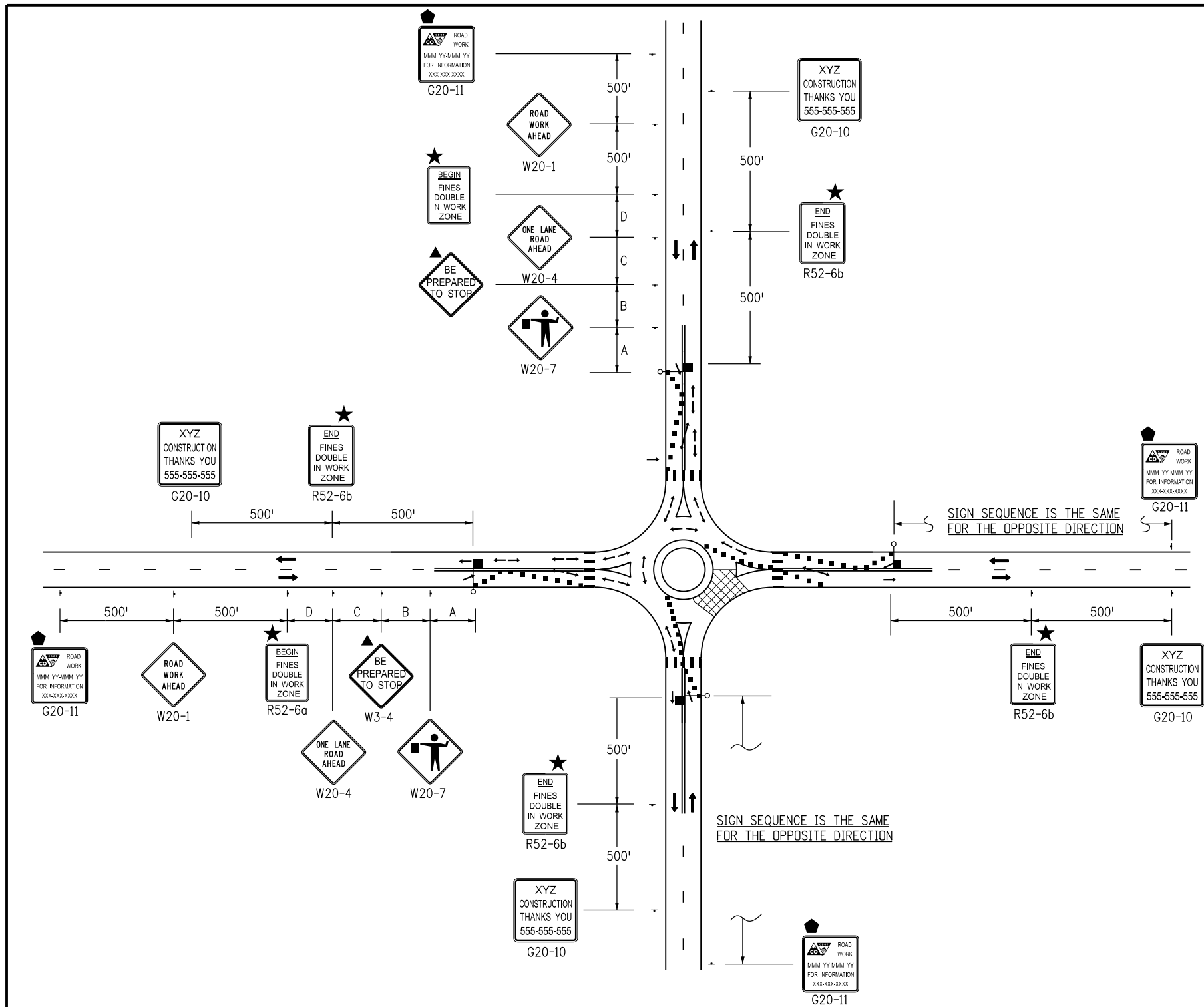
Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9543
 Fax: (303) 757-9219

Safety & Traffic Engineering Branch **KCM/KEN**

**TRAFFIC CONTROLS
 FOR HIGHWAY
 CONSTRUCTION**

Issued By: Safety & Traffic Engineering Branch July 4, 2012

STANDARD PLAN NO.
S-630-1
Sheet No. 19 of 24



- ### LEGEND
- * A TRUCK DETOUR ROUTE MAY BE NECESSARY TO DIVERT TRUCKS AWAY FROM THE ROUNDABOUT CIRCLE. ALSO NECESSARY IS A STREET NAME AND/OR ROUTE NUMBER SIGN, INFORMING MOTORISTS WHERE THEY NEED TO EXIT THE ROUNDABOUT CIRCLE TO ENTER THE DESIRED STREET AND/OR ROUTE NUMBER.
 - CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 25), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
 - TYPE III BARRICADE
 - ← DIRECTION OF TRAVEL
 - ▨ WORK AREA
 - ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
 - ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
 - ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
 - ⬠ G20-11 SIGN IS REQUIRED WHEN SECTION 626 "PUBLIC INFORMATION SERVICES" PROJECT SPECIAL PROVISION WORKSHEET SPECIFICATION IS REQUIRED WITH PROJECT.
 - ☀ FLASHING BEACON
 - REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
 - ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
 - ▧ TRUCK MOUNTED ATTENUATOR (TMA)
 - L TRANSITION TAPER LENGTH: =
 - L = MINIMUM LENGTH OF TAPER $L = \frac{WS^2}{S^2}$
 - SPEED 45 MPH OR MORE: $L = \frac{WS^2}{S^2}$
 - SPEED 40 MPH OR LESS: L
 - S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 - W = WIDTH OF OFFSET
 - SHOULDER TAPER = 1/3 L
 - BUFFER SPACE SEE GENERAL NOTE 21 ON SHEET 1.
 - ⚡ FLAGGER

CASE NO. 33
TYPICAL APPLICATION *
ROUNDABOUT - PARTIAL CLOSURE FOR ONE-LANE ROUNDABOUT

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|--------------------|------------------------|------|------|
| | A | B | C |
| URBAN (<= 40 MPH) | 100 | 100 | 100 |
| URBAN (>= 45 MPH) | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1500 | 2640 |

(300)

| Computer File Information | |
|--|---------------|
| Creation Date: 07/04/12 | Initials: KEN |
| Last Modification Date: 12/08/14 | Initials: KEN |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | |
| Drawing File Name: S-630-01_20of24.dgn | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | |

| Sheet Revisions | |
|-----------------|---|
| Date: | Comments |
| 12/08/14 | NEW SHEET 20. OLD SHEET 20 NOW SHEET 24 |
| | |
| | |

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Safety & Traffic Engineering Branch **KCM/KEN**

TRAFFIC CONTROLS
FOR HIGHWAY
CONSTRUCTION

Issued By: Safety & Traffic Engineering Branch July 4, 2012

STANDARD PLAN NO.
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Sheet No. 20 of 24

LEGEND

VEHICLE WITH TRUCK-MOUNTED ATTENUATORS (TMA), TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.

VARIABLE MESSAGE SIGN (VMS).

WHEN VMS IS USED, THE "SHOULDER CLOSED" SIGN BECOMES OPTIONAL.

THE "PICK-UP VEHICLES" OR "WARNING VEHICLE" MAY ENCRDACH INTO THE TRAFFIC LANE WHEN THE SHOULDER IS TOO NARROW TO DRIVE ON.

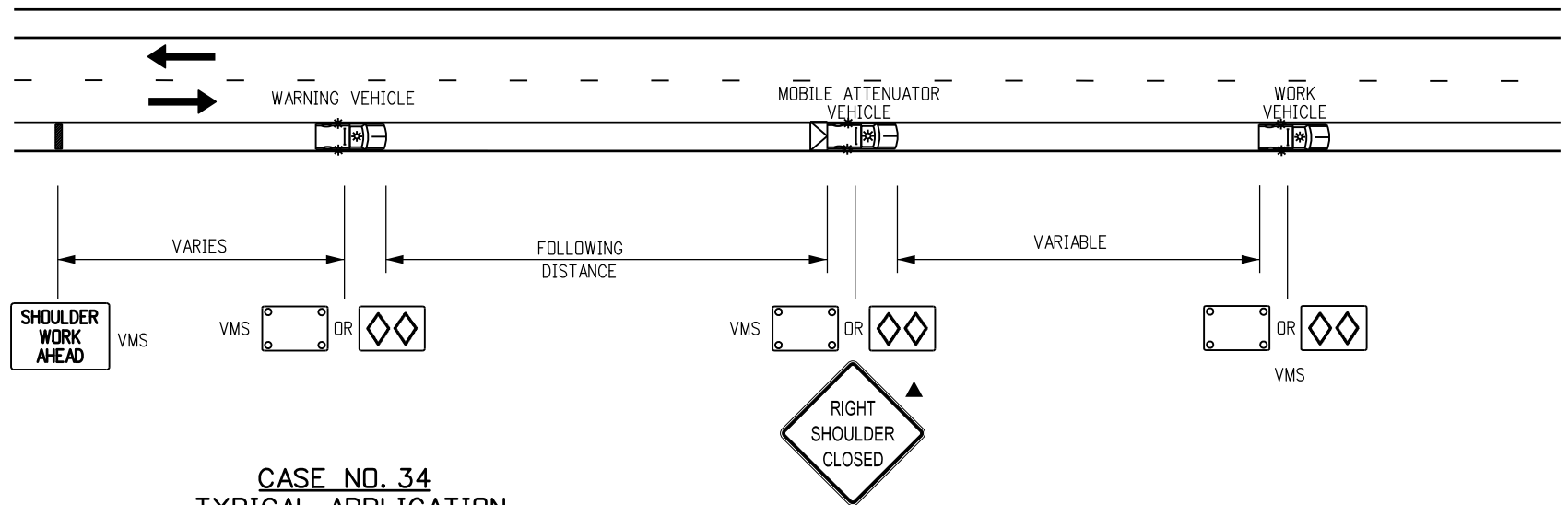
IF TRACKING OF THE WET PAINT IS ANTICIPATED, THE USE OF CONES OR STATIONARY "WET PAINT" SIGNS SHALL BE POSTED.

THE VARIABLE SEPARATION DISTANCE BETWEEN THE "CONE PLACEMENT VEHICLE" AND "CONE PICKUP VEHICLE" SHALL BE DETERMINED BY THE TRACK DRYING TIME OF THE PAVEMENT MARKING MATERIAL.

OPTIONAL

FOLLOWING DISTANCE CHART FOR WARNING AND MOBILE ATTENUATOR (OR CONE PICKUP) VEHICLE

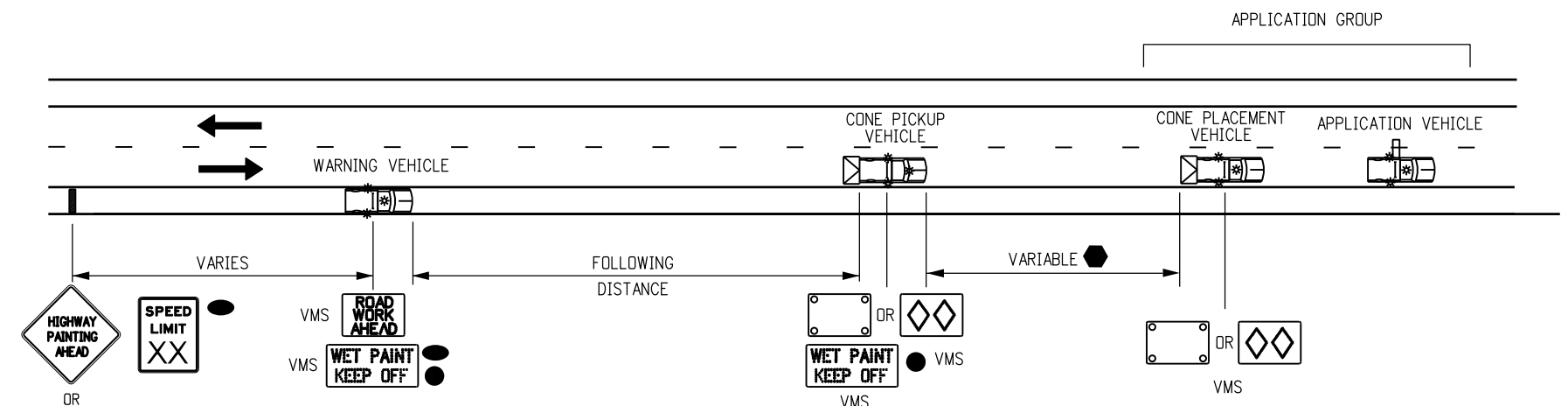
| POSTED WZ SPEED LIMIT (MPH) | FOLLOWING DISTANCE (FEET) |
|-----------------------------|---------------------------|
| 0 - 30 | 250 - 550 |
| 35 - 40 | 325 - 700 |
| 45 - 50 | 600 - 900 |
| 55 | 750 - 1200 |
| 60 - 65 | 1000 - 1400 |
| 70 - 75 | 1200 - 1600 |



CASE NO. 34
TYPICAL APPLICATION
MOBILE WORK ZONE
MOBILE SHOULDER CLOSURE ON 2-LANE UNDIVIDED HIGHWAY

NOTE

THE VARIABLE SEPARATION DISTANCE BETWEEN THE "CONE PLACEMENT VEHICLE" AND "CONE PICKUP VEHICLE" SHALL BE DETERMINED BY THE TRACK DRYING TIME OF THE PAVEMENT MARKING MATERIAL.



CASE NO. 35
TYPICAL APPLICATION*
MOBILE PAVEMENT MARKING ZONE
CENTERLINE STRIPING ON 2-LANE UNDIVIDED HIGHWAY

* USE CASE 31 IF SHOULDER IN CASE 30 IS TOO NARROW FOR GROUP VEHICLE USE.

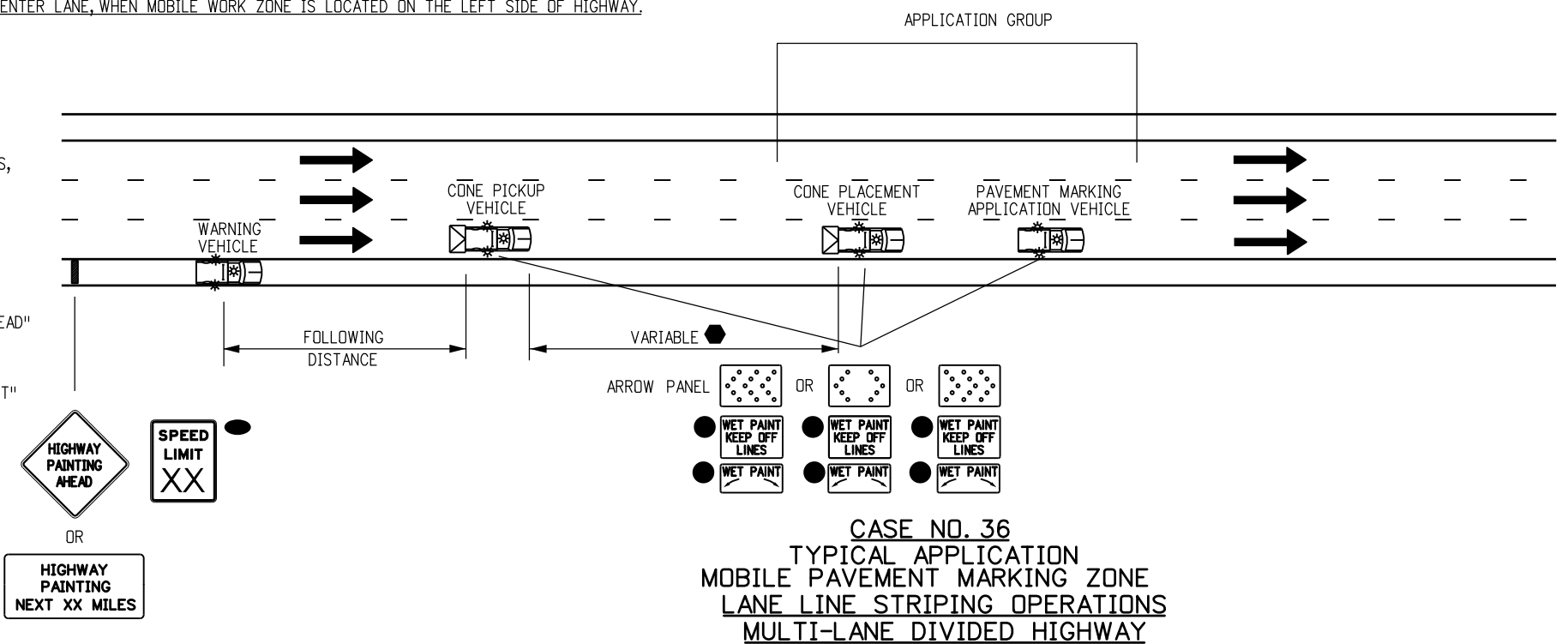
(301)

| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | STANDARD PLAN NO. |
|--|---------------------|-----------------|---|---|--|-------------------|
| Creation Date: 07/04/12 | Initials: KEN | Date: | Comments | | | S-630-1 |
| Last Modification Date: 12/8/14 | Initials: KEN | 3/27/14 | REDUCED NUMBER OF TMA VEHICLES, REVISE VMS AND ADD STATIONARY SIGNS | Sheet No. 21 of 24 | | |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | | 12/8/14 | FORMERLY SHEET 17. | | | |
| Drawing File Name: S-630-1_21of24.dgn | | | | | | |
| CAD Ver.: MicroStation V8 | Scale: Not to Scale | Units: English | | | | |

FOR CASE #32, VEHICLE/SIGN SEQUENCE IS THE SAME FOR THE LEFT SIDE OF HIGHWAY, WHILE TAPER IS MIRRORED ABOUT THE CENTER LANE, WHEN MOBILE WORK ZONE IS LOCATED ON THE LEFT SIDE OF HIGHWAY.

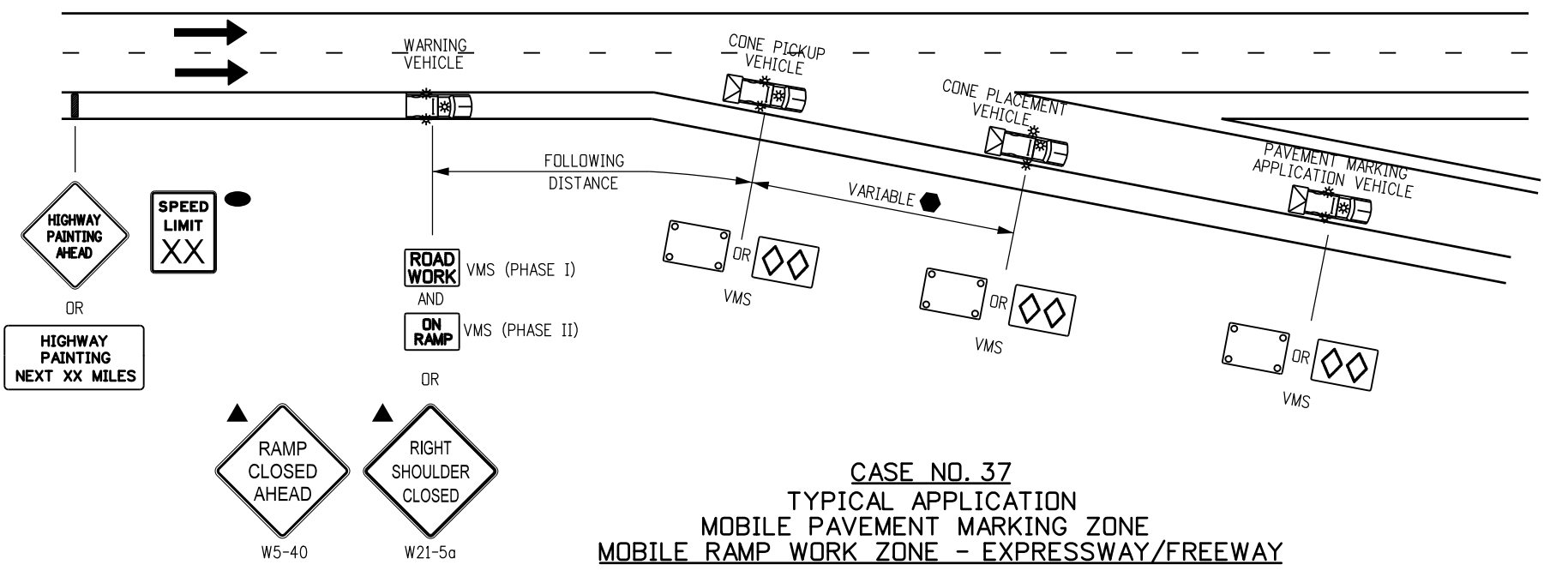
LEGEND

- VEHICLE WITH TRUCK-MOUNTED ATTENUATORS (TMA), TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.
- ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- PORTABLE VARIABLE MESSAGE SIGN (VMS).
- WHEN THE VMS IS USED, THE "SHOULDER CLOSED" (W21-5aX) OR W21-5bX), AND "RAMP CLOSED AHEAD" SIGNS BECOME OPTIONAL.
- IF TRACKING OF THE WET PAINT IS ANTICIPATED, THE USE OF CONES OR STATIONARY "WET PAINT" SIGNS SHALL BE POSTED.
- THE VARIABLE SEPARATION DISTANCE BETWEEN THE "CONE PLACEMENT VEHICLE" AND "CONE PICKUP VEHICLE" SHALL BE DETERMINED BY THE TRACK DRYING TIME OF THE PAVEMENT MARKING MATERIAL.
- OPTIONAL



FOLLOWING DISTANCE CHART FOR WARNING VEHICLE AND CONE PICKUP VEHICLES

| POSTED WZ SPEED LIMIT (MPH) | FOLLOWING DISTANCE (FEET) |
|-----------------------------|---------------------------|
| 0 - 30 | 250 - 550 |
| 35 - 40 | 325 - 700 |
| 45 - 50 | 600 - 900 |
| 55 | 750 - 1200 |
| 60 - 65 | 1000 - 1400 |
| 70 - 75 | 1200 - 1600 |



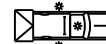




NOTES

1. THE SIGNING VEHICLES MAY ENCRDACH INTO THE TRAFFIC LANE WHEN THE SHOULDER IS TOO NARROW TO DRIVE ON.
2. IF THE RAMP CANNOT BE REOPENED WITHIN 15 MINUTES, USE CASE NO. 22 OF THE S-630-1 STANDARD PLAN.

(302)

| | | | | | | | |
|--|---------------------|------------------------|--|---|--|---------------------------|--|
| Computer File Information | | Sheet Revisions | | <p>Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219</p> <p>Safety & Traffic Engineering Branch KCM/KEN</p> | <p>TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION</p> <p>Issued By: Safety & Traffic Engineering Branch July 4, 2012</p> | STANDARD PLAN NO. | |
| Creation Date: 07/04/12 | Initials: KEN | Date: | Comments | | | S-630-1 | |
| Last Modification Date: 12/8/14 | Initials: KEN | 3/27/14 | REDUCE NUMBER OF TMA VEHICLES, REVISE VMS, AND ADD STATIONARY SIGNS FORMERLY SHEET 18. | | | Sheet No. 22 of 24 | |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | | 12/8/14 | SIGN CODE UPDATE, W5-40 & W21-5a. | | | | |
| Drawing File Name: S-630-1_22of24.dgn | | | | | | | |
| CAD Ver.: MicroStation V8 | Scale: Not to Scale | Units: English | | | | | |

LEGEND

-  VEHICLE WITH TRUCK-MOUNTED ATTENUATORS (TMA), TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.
-  ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
-  PORTABLE VARIABLE MESSAGE SIGN (VMS).
-  WHEN THE VMS IS USED, THE "RIGHT LANE CLOSED AHEAD" (W9-3X) SIGN BECOMES OPTIONAL.
-  THE "CONE PICK-UP VEHICLE" OR "WARNING VEHICLE" MAY ENCRDACH INTO THE TRAFFIC LANE WHEN THE SHOULDER IS TOO NARROW TO DRIVE ON.

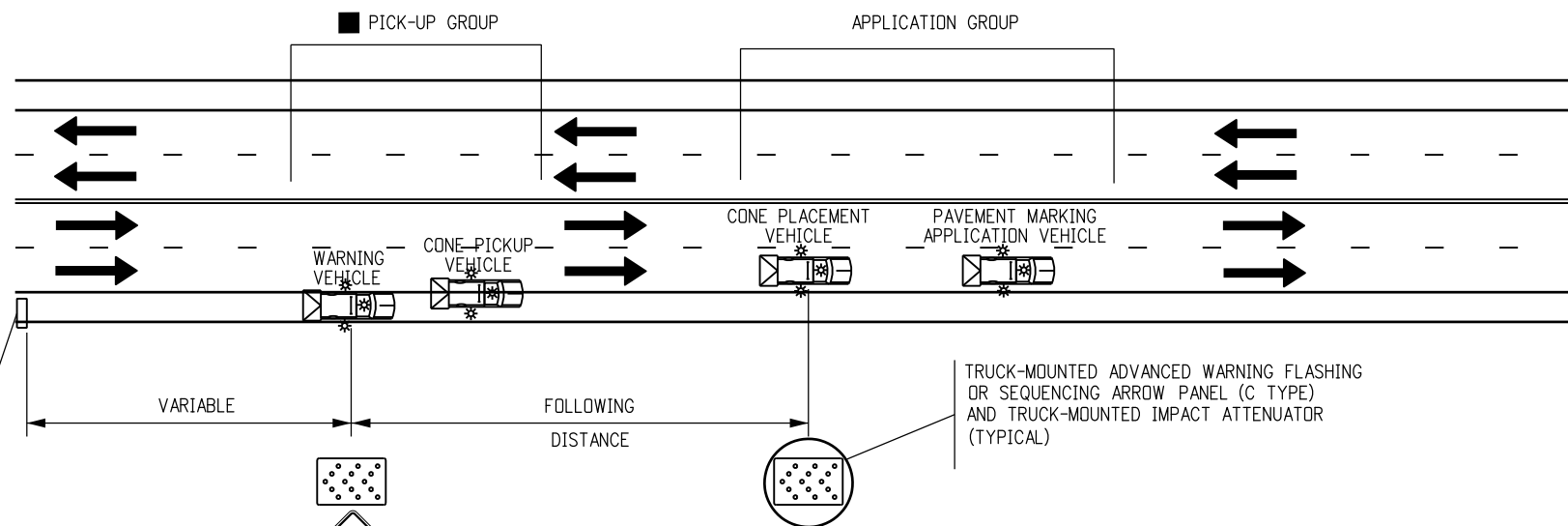
NOTES

1. IN ROADWAY WHERE THE AADT IS 2,000 OR LESS, A SINGLE WORK VEHICLE WITH APPROPRIATE WARNING DEVICES ON THE VEHICLE MAY BE USED.
2. RADIO COMMUNICATIONS BETWEEN THE WORKCREW AND THE MOVING BLOCKADE ARE REQUIRED TO ADJUST THE BLOCKADE TO INCREASE OR DECREASE THE CLOSURE TIME. RELEASE TRAFFIC ONLY AFTER CONFIRMATION THAT ALL WORKERS AND THEIR VEHICLES ARE CLEAR OF THE ROADWAY.
3. IF APPLICABLE, ALL RAMP AND ACCESS BETWEEN THE MOVING BLOCKADE AND WORK OPERATION AREA SHALL BE TEMPORARILY CLOSED USING TRAFFIC CONTROL EQUIPMENT AND PERSONNEL. EACH RAMP MUST REMAIN CLOSED UNTIL THE CREW DOING THE WORK GIVES THE "ALL CLEAR" SIGNAL OR UNTIL THE FRONT OF THE MOVING BLOCKADE PASSES THE CLOSED RAMP(S).

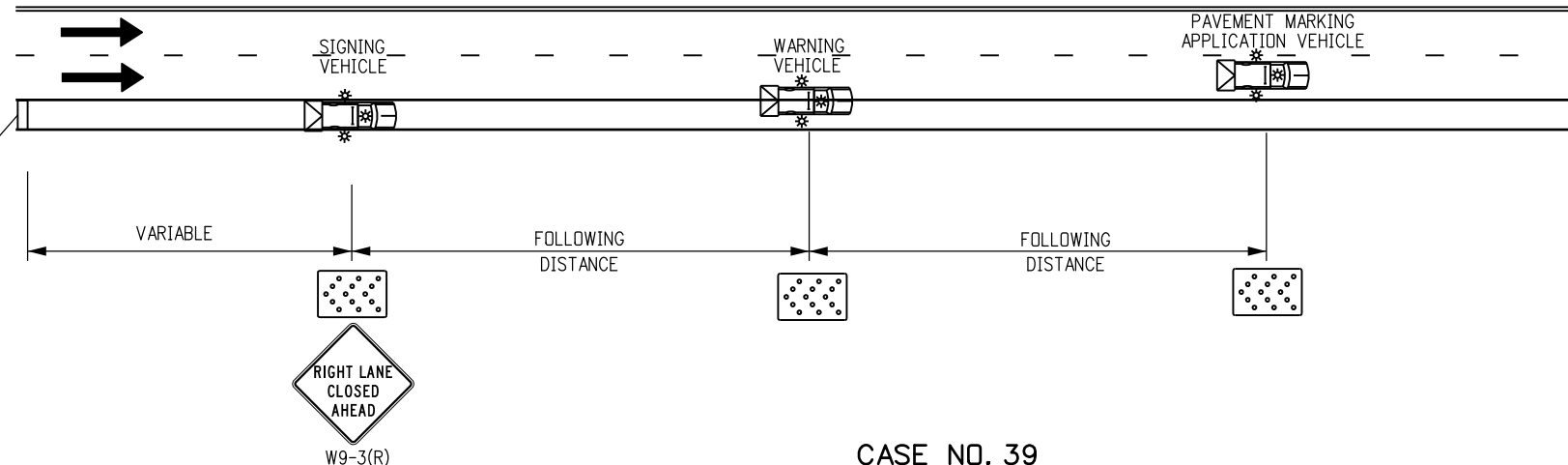
FOLLOWING DISTANCE CHART FOR WARNING VEHICLE AND SIGNING VEHICLES

| POSTED WZ SPEED LIMIT (MPH) | FOLLOWING DISTANCE (FEET) |
|-----------------------------|---------------------------|
| 0 - 30 | 250 - 550 |
| 35 - 40 | 325 - 700 |
| 45 - 50 | 600 - 900 |
| 55 | 750 - 1200 |
| 60 - 65 | 1000 - 1400 |
| 70 - 75 | 1200 - 1600 |

**CASE NO. 38
TYPICAL APPLICATION
MOBILE OPERATION OF LANE CLOSURE OF MULTI-LANE HIGHWAY
(NOT FOR USE ON FREEWAYS)**



**CASE NO. 39
TYPICAL APPLICATION
MOBILE OPERATION OF LANE CLOSURE OF MULTI-LANE HIGHWAY**



(303)

| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 Safety & Traffic Engineering Branch KCM/KEN | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Safety & Traffic Engineering Branch July 4, 2012 | STANDARD PLAN NO. |
|--|---------------|-----------------|--------------------|---|--|-------------------|
| Creation Date: 07/04/12 | Initials: KEN | Date: | Comments | | | S-630-1 |
| Last Modification Date: 12/8/14 | Initials: KEN | 12/8/14 | FORMERLY SHEET 19. | Sheet No. 23 of 24 | | |
| Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans | (R-7) | | | | | |
| Drawing File Name: S-630-1_23of24.dgn | (R-X) | | | | | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | (R-X) | | | | | |

TYPICAL CONSTRUCTION ZONE SIGNS

THESE SIGNING NOTES ARE INTENDED AS A QUICK REFERENCE FOR TYPICAL SIGN USE AND PLACEMENT IN CONSTRUCTION ZONES.

| | | |
|--|---|---|
| <p>G20-1 "ROAD/WORK/NEXT XX MILES" - THIS SIGN SHALL BE ERECTED AT THE LIMITS OF ANY ROAD CONSTRUCTION OR MAINTENANCE PROJECT OF MORE THAN TWO (2) MILES IN LENGTH WHERE TRAFFIC IS MAINTAINED THROUGH THE PROJECT.</p> <p>G20-4 "PILOT CAR/FOLLOW ME" - THIS SIGN SHALL BE MOUNTED IN A CONSPICUOUS POSITION ON THE REAR OF A VEHICLE USED FOR GUIDING ONE-WAY TRAFFIC THROUGH OR AROUND THE PROJECT.</p> <p>G20-5P "WORK ZONE" - THIS PLAQUE SHALL BE MOUNTED JUST ABOVE THE WORK ZONE SPEED LIMIT SIGNS PRIOR TO THE WORK ZONE AREA.</p> <p>G20-10 THANK YOU SIGN - THIS SIGN SHOULD BE ERECTED APPROXIMATELY 500 FEET BEYOND THE END OF THE PROJECT.</p> <p>G20-11 CONSTRUCTION PROJECT INFORMATION SIGN - THIS SIGN SHOULD BE ERECTED AS DESCRIBED IN THE SECTION 626 STANDARD SPECIFICATION.</p> <p>G20-55(X) "X MINUTE CLOSURE. EXPECT DELAYS" - THIS SIGN IS INTENDED FOR USE 500 FEET PAST THE "WORK ZONE"/SPEED LIMIT SIGN.</p> <p>M4-9() "DETOUR/⟨⟨⟨" - THIS SIGN IS USED FOR UNNUMBERED ROUTES; FOR USE IN EMERGENCY SITUATIONS; FOR PERIODS OF SHORT DURATION; OR WHERE, OVER RELATIVELY SHORT DISTANCES, IT IS NOT NECESSARY TO SHOW ROUTE MARKERS TO GUIDE TRAFFIC ALONG THE DETOUR AND BACK TO ITS AUTHORIZED ROUTE.</p> <p>M4-10() "DETOUR ARROW" - THIS SIGN SHOULD BE MOUNTED JUST BELOW THE ROAD CLOSED SIGN AT THE POINT WHERE THE DETOUR ROADWAY OR ROUTE HAS BEEN ESTABLISHED DUE TO THE CLOSURE OF THE STREET OR HIGHWAY TO THROUGH TRAFFIC.</p> <p>R2-1() "SPEED/LIMIT/XX" - THESE SIGNS ARE INTENDED TO REDUCE TRAFFIC SPEED IN ADVANCE OF THE DAILY WORK AREA WITHIN THE OVERALL PROJECT LIMITS.</p> <p>R2-1(XX) "SPEED/LIMIT/XX" - THIS SIGN IS INTENDED FOR USE 500 FEET PAST THE "THANK YOU" SIGN TO BRING TRAFFIC BACK TO ORIGINAL POSTED SPEED.</p> <p>R2-6P "FINES DOUBLE" - THIS SIGN IS INTENDED FOR USE WITHIN WORK ZONES TO PROVIDE NOTICE OF INCREASED FINES FOR TRAFFIC VIOLATIONS WITHIN WORK ZONES.</p> <p>R4-1 "DO NOT PASS" - THIS SIGN SHOULD BE PLACED AT TRANSITION TAPER POINT.</p> <p>R4-2 "PASS WITH CARE" - THIS SIGN SHOULD BE PLACED AT TRANSITION TAPER POINT.</p> <p>R11-2 "ROAD/CLOSED" - THIS SIGN IS TO BE MOUNTED ON THE BARRICADE THAT IS PLACED BEFORE THE WORK ZONE ENTRANCE TO PROHIBIT TRAFFIC FROM ENTERING THE WORK ZONE.</p> <p>R11-3 "ROAD CLOSED/X MILES AHEAD/L.T.O." - THIS SIGN SHOULD BE PLACED WHERE THROUGH TRAFFIC MUST DETOUR TO AVOID THE CLOSURE OF THE ROAD SOME DISTANCE BEYOND, BUT WHERE THE ROAD IS OPEN TO LOCAL TRAFFIC UP TO THE POINT OF CLOSURE.</p> <p>R11-4 "ROAD CLOSED/TO/THRU TRAFFIC" FOR URBAN USE - THIS SIGN SHOULD BE PLACED WHERE THROUGH TRAFFIC MUST DETOUR TO AVOID THE CLOSURE OF THE ROAD SOME DISTANCE BEYOND, BUT WHERE THE ROAD IS OPEN TO LOCAL TRAFFIC UP TO THE POINT OF CLOSURE.</p> <p>R52-6a "BEGIN FINES DOUBLE IN WORK ZONE" SIGN IS PLACED AT THE BEGINNING OF THE ADVANCED WARNING AREA OF THE TRAFFIC CONTROL ZONE.</p> <p>R52-6b "END FINES DOUBLE IN WORK ZONE" SIGN IS PLACED AFTER WORK ZONE AREA, PAST DOWNSTREAM TAPER SECTION.</p> <p>W1-1() "TURN ARROW" - THIS SIGN IS INTENDED FOR USE WHERE ENGINEERING INVESTIGATIONS OF ROADWAY CONDITIONS SHOW THE RECOMMENDED SPEED ON THE TURN TO BE 30 MPH OR LESS.*</p> <p>W1-2() "CURVE ARROW" - THIS SIGN IS INTENDED FOR USE WHERE ENGINEERING INVESTIGATIONS OF ROADWAY CONDITIONS SHOW THE RECOMMENDED SPEED ON THE CURVE TO BE IN THE RANGE BETWEEN 30 AND 60 MILES PER HOUR.*</p> <p>W1-3() "REVERSE TURN ARROW" - THIS SIGN IS INTENDED FOR USE WHERE TWO TURNS OR THE CURVE AND A TURN IN OPPOSITE DIRECTIONS ARE SEPARATED BY A TANGENT OF LESS THAN 600 FEET.*</p> <p>W1-4() "REVERSE CURVE ARROW" - THIS SIGN IS INTENDED FOR USE WHERE TWO CURVES IN OPPOSITE DIRECTIONS ARE SEPARATED BY A TANGENT OF LESS THAN 600 FEET.*</p> <p>W1-6() "ARROW" - THIS SIGN SHOULD BE MOUNTED JUST BELOW THE ROAD CLOSED SIGN AT THE POINT WHERE THE DIVERSION HAS BEEN ESTABLISHED DUE TO THE LANE CLOSURE.</p> <p>W3-2 "YIELD AHEAD" - THIS SIGN IS INTENDED FOR USE AT THE APPROACH TO THE YIELD SIGN THAT IS NOT VISIBLE FOR A SUFFICIENT DISTANCE TO PERMIT THE DRIVER TO BRING HIS VEHICLE TO A STOP AT THE YIELD SIGN.*</p> <p>W3-4 "BE PREPARED TO STOP" - THIS SIGN TO BE PLACED 1.5 MILES IN ADVANCED OF A FLAGGER.</p> <p>W4-2(X) "LEFT (RIGHT) LANE TRANSITION SYMBOL" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE REDUCTION IN THE NUMBER OF TRAFFIC LANES IN THE DIRECTION OF TRAVEL ON THE MULTILANE HIGHWAY.*</p> <p>W4-50 "USE BOTH LANES DURING CONGESTION" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE "ROAD WORK X MILE" ADVANCED WARNING SIGN.</p> <p>W4-51 "USE BOTH LANES TO MERGE POINT" - THIS SIGN IS INTENDED TO DIRECT MOTORISTS TO USE BOTH TRAVEL LANES UNTIL THE LANES ARE REDUCED TO ONE LANE.</p> <p>W4-52 "TAKE TURNS MERGE HERE" - THIS SIGN IS INTENDED TO WARN MOTORISTS IN ADVANCED TO MOVE FROM THE CLOSED TRAVEL LANE TO THE OPEN TRAVEL LANE, USUALLY 500 FEET IN ADVANCED OF THE START OF THE TRANSITION TAPER.</p> <p>W5-1 "ROAD NARROWS" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE TRANSITION ON THE ROAD WHERE THE PAVEMENT WIDTH IS REDUCED ABRUPTLY TO A WIDTH SUCH THAT TWO CARS CANNOT PASS WITHOUT REDUCING SPEED.*</p> | <p>W5-2a "NARROW BRIDGE SYMBOL" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A BRIDGE OR CULVERT HAVING A CLEAR TWO-WAY ROADWAY WIDTH OF 16 TO 18 FEET OR ANY BRIDGE OR CULVERT HAVING A ROADWAY CLEARANCE LESS THAN THE WIDTH OF THE APPROACH PAVEMENT.*</p> <p>W5-3 "ONE LANE/BRIDGE" - THIS SIGN SHOULD BE PLACED ON TWO-WAY ROADWAYS IN ADVANCE OF THE BRIDGES OR CULVERTS WHERE THE ROADWAY WIDTH IS LESS THAN 16 FEET (18 FEET FOR COMMERCIAL VEHICLES) OR WHEN THE ALIGNMENT IS POOR ON THE APPROACH TO THE STRUCTURE HAVING A CLEAR ROADWAY WIDTH OF 18 FEET OR LESS.*</p> <p>W6-1 "DIVIDED HIGHWAY SYMBOL" - THIS SIGN SHOULD BE PLACED ON THE APPROACHES TO THE SECTION OF HIGHWAY WHERE OPPOSING FLOWS OF TRAFFIC ARE SEPARATED BY A PHYSICAL MEDIAN.</p> <p>W6-2 "DIVIDED HIGHWAY ENDS SYMBOL" - THIS SIGN SHOULD BE PLACED AT THE END OF THE SECTION OF PHYSICALLY DIVIDED HIGHWAY AS A WARNING OF TWO-WAY TRAFFIC AHEAD.</p> <p>W6-3 "TWO-WAY TRAFFIC SYMBOL" - THIS SIGN IS INTENDED FOR USE TO GIVE WARNING OF TRANSITION FROM A SEPARATED ONE-WAY ROADWAY TO A TWO-WAY ROADWAY.*</p> <p>W7-1 "HILL SYMBOL" - THIS SIGN SHOULD BE PLACED AT A POINT IN ADVANCE OF THE DOWNGRADE WHERE THE LENGTH, PERCENT OF GRADE, HORIZONTAL CURVATURE, OR OTHER PHYSICAL FEATURES REQUIRE SPECIAL CONSIDERATION ON THE PART OF DRIVERS.*</p> <p>W8-1,W8-2 "BUMP"/"DIP" - THESE SIGNS ARE INTENDED FOR USE TO GIVE WARNING OF A SHARP RISE OR DEPRESSION IN THE PROFILE OF THE ROAD THAT IS SUFFICIENTLY ABRUPT TO AFFECT VEHICLE OPERATION OR CAUSE CONSIDERABLE DISCOMFORT TO PASSENGERS.*</p> <p>W8-3a "PAVEMENT ENDS SYMBOL" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A POINT WHERE THE PAVEMENT SURFACE CHANGES FROM A HARD-SURFACED PAVEMENT TO THE LOW-TYPE SURFACE OR EARTH ROAD.*</p> <p>W8-4 "SOFT SHOULDER" - THIS SIGN IS INTENDED FOR USE TO WARN OF A SOFT SHOULDER CONDITION THAT COULD PRESENT A PROBLEM TO VEHICLES THAT MAY GET OFF THE PAVEMENT.*</p> <p>W8-5 "SLIPPERY WHEN WET SYMBOL" - THIS SIGN SHOULD BE PLACED IN ADVANCE OF THE CONDITION WHERE THE HIGHWAY SURFACE IS SLIPPERY BEYOND WHAT IS ORDINARY WHEN WET.*</p> <p>W8-9a "SHOULDER DROP-OFF" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A SHOULDER DROP-OFF THAT EXCEEDS THREE INCHES IN HEIGHT.*</p> <p>W8-11 "UNEVEN LANES" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF AN UNEVEN ADJACENT LANE SITUATION THAT EXCEEDS ONE INCH IN HEIGHT.*</p> <p>W9-1() "LEFT (RIGHT) LANE ENDS" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE PAVEMENT WIDTH TRANSITION SIGN (W4-2).</p> <p>W9-2() "LANE ENDS/MERGE LEFT (RIGHT)" - THIS SIGN IS INTENDED FOR USE AS A SUPPLEMENT TO THE PAVEMENT WIDTH TRANSITION SIGN (W4-2).</p> <p>W9-3 OR W9-3a() "CENTER LANE CLOSED AHEAD" - THIS SIGN SHOULD BE USED IN ADVANCE OF THE POINT WHERE WORK OCCUPIES THE CENTER LANE AND TRAFFIC IS DIRECTED TO THE RIGHT OR LEFT OF THE WORK ZONE.*</p> <p>W12-1 "DOUBLE ARROW SYMBOL" - THIS SIGN SHOULD BE PLACED AT THE POINT OF THE OBSTRUCTION IN THE ROADWAY, WHERE TRAFFIC IS PERMITTED TO PASS ON EITHER SIDE OF THE OBSTRUCTION.</p> <p>W12-2 "LOW CLEARANCE SYMBOL" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF AN OBSTRUCTION TO WARN VEHICLE OPERATORS OF CLEARANCES LESS THAN THE MAXIMUM VEHICLE HEIGHT PERMITTED PLUS 12 INCHES.*</p> <p>W13-1P() "ADVISORY SPEED PLAQUE" - THIS PLAQUE IS INTENDED TO SUPPLEMENT WARNING SIGNS ONLY AND SHALL NOT BE MOUNTED ALONE. IT IS USED TO INDICATE THE MAXIMUM RECOMMENDED SPEED FOR THE INDICATED CONDITION.</p> <p>W13-3 "ADVISORY RAMP SPEED" - THIS SIGN IS TO BE POSTED TO INFORM MOTORISTS WHAT THE SUGGESTED SPEED LIMIT IS ON A RAMP.</p> <p>W20-1 "ROAD/WORK/AHEAD" - THIS SIGN IS TO BE LOCATED IN ADVANCE OF THE INITIAL ACTIVITY OR DETOUR A DRIVER MAY ENCOUNTER, AND IS INTENDED TO BE USED AS A WARNING OF OBSTRUCTIONS OR RESTRICTIONS.</p> <p>W20-2 "DETOUR/(DIST.)" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE POINT AT WHICH TRAFFIC IS DIVERTED OVER A TEMPORARY ROADWAY OR ROUTE.</p> <p>W20-3 "ROAD/CLOSED/(DIST.)" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A POINT AT WHICH A ROADWAY IS CLOSED TO ALL TRAFFIC OR TO ALL BUT LOCAL TRAFFIC.</p> <p>W20-4 "ONE LANE/ROAD/(DIST.)" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A POINT WHERE TRAFFIC IN BOTH DIRECTIONS MUST USE A SINGLE LANE.</p> <p>W20-5() "XXX LANE/CLOSED/(DIST.)" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A POINT WHERE ONE LANE OF A MULTIPLE-LANE ROADWAY IS CLOSED. IT SHOULD BE PROVIDED WITH INTERCHANGEABLE PLAQUES READING "RIGHT", "LEFT", AND "CENTER" AT NO ADDITIONAL COST TO THE PROJECT.</p> <p>W20-7 "FLAGGER SYMBOL" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF ANY POINT AT WHICH A FLAGGER HAS BEEN STATIONED TO CONTROL TRAFFIC THROUGH OR AROUND THE PROJECT.*</p> <p>W20-52 "GROOVED/PAVEMENT/AHEAD" - THIS SIGN IS INTENDED TO BE USED IN ADVANCE OF A ROADWAY THAT HAS BEEN GROOVED AND/OR ROTO MILLED.</p> <p>W21-1a "WORKER SYMBOL" - THIS SIGN IS INTENDED FOR USE IN CONJUNCTION WITH MINOR MAINTENANCE AND PUBLIC UTILITY OPERATIONS FOR THE PROTECTION OF MEN WORKING IN OR NEAR THE ROADWAY.</p> | <p>W21-2 "FRESH/OIL" - THIS SIGN IS INTENDED FOR USE WHERE RE-SURFACING OPERATIONS HAVE RENDERED THE SURFACE OF THE PAVEMENT TEMPORARILY WET, AND OBJECTIONABLE SPLASHING ON VEHICLES MAY OCCUR.*</p> <p>W21-3 "ROAD/MACHINERY/AHEAD" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE AREAS WHERE HEAVY EQUIPMENT IS OPERATING IN OR ADJACENT TO THE ROADWAY.*</p> <p>W21-4 "ROAD/WORK/(DIST.)" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF MAINTENANCE FOR MINOR RECONSTRUCTION OPERATIONS IN THE ROADWAY.</p> <p>W21-5 "SHOULDER/WORK" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF THE PROJECT INVOLVING THE SHOULDER, WHERE THE TRAVELED WAY REMAINS UNOBSTRUCTED.</p> <p>W21-6 "SURVEY/CREW" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF A POINT WHERE A SURVEYING CREW IS WORKING IN OR ADJACENT TO THE ROADWAY.*</p> <p>W22-1 "BLASTING/ZONE/(DIST.)" - THIS SIGN IS INTENDED FOR USE IN ADVANCE OF ANY POINT OR WORK SITE WHERE THERE ARE EXPLOSIVES BEING USED. THE W22-2 AND W22-3 SIGNS MUST BE USED IN SEQUENCE WITH THIS SIGN.</p> <p>W22-2 "TURN OFF/2-WAY RADIOS/AND/CELLULAR/PHONES" - THIS SIGN IS TO BE USED IN SEQUENCE WITH THE W22-1 AND W22-3 SIGNS AND PLACED AT LEAST 1000 FEET FROM THE BEGINNING OF THE BLASTING ZONE.</p> <p>W22-3 "END/BLASTING/ZONE" - THIS SIGN IS TO BE USED TO DENOTE THE END OF THE RADIO INFLUENCE AREA AND SHALL BE PLACED A MINIMUM OF 1000 FEET FROM THE BLASTING ZONE, EITHER WITH OR PRECEDING THE END CONSTRUCTION SIGN.</p> <p>W22-50(X) "ROCK SCALING X MILE(S)" - THIS SIGN IS INTENDED TO BE USED IN ADVANCE OF A FLAGGER IN ADVANCED OF THE WORK ZONE AREA.</p> |
|--|---|---|

ADVANCE PLACEMENT OF WARNING SIGNS

| POSTED OR 85TH PERCENTILE SPEED | ADVANCE PLACEMENT DISTANCE (FEET) | | | | | | | | |
|---------------------------------|-----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|
| | CONDITION A | CONDITION B: DECLARATION TO THE LISTED ADVISORY SPEED (MPH) FOR THE CONDITION | | | | | | | |
| | | MPH | | | | | | | |
| | + | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
| 20 | 225 | ● | ● | — | — | — | — | — | — |
| 25 | 325 | ● | ● | ● | — | — | — | — | — |
| 30 | 450 | ● | ● | ● | ● | — | — | — | — |
| 35 | 550 | ● | ● | ● | ● | — | — | — | — |
| 40 | 650 | 125 | ● | ● | ● | — | — | — | — |
| 45 | 750 | 175 | 125 | ● | ● | ● | — | — | — |
| 50 | 850 | 250 | 200 | 150 | 100 | ● | — | — | — |
| 55 | 950 | 325 | 275 | 225 | 175 | 100 | ● | — | — |
| 60 | 1100 | 400 | 350 | 300 | 250 | 175 | ● | — | — |
| 65 | 1200 | 475 | 425 | 400 | 350 | 275 | 175 | ● | — |
| 70 | 1250 | 550 | 525 | 500 | 425 | 350 | 250 | 150 | — |
| 75 | 1350 | 650 | 625 | 600 | 525 | 450 | 350 | 250 | 100 |

- + CONDITION A: SPEED REDUCTION AND LANE CHANGING IN HEAVY TRAFFIC. TYPICAL SIGNS ARE "MERGE" AND "RIGHT LANE ENDS".
- ++ CONDITION B: TYPICAL CONDITIONS ARE THE WARNING OF A POTENTIAL STOP SITUATION AND LOCATIONS WHERE THE ROAD USER MUST DECREASE SPEED TO MANEUVER THROUGH THE WARNED CONDITION. TYPICAL SIGNS ARE "STOP AHEAD", "SIGNAL AHEAD", "YIELD AHEAD", "CURVE", "REVERSE CURVE", "TURN".
- NO SUGGESTED DISTANCES ARE PROVIDED AT THESE SPEEDS, AS THE PLACEMENT IS DEPENDENT ON SITE CONDITIONS AND OTHER SIGNING.

A SUPPLEMENTAL PLAQUE MAY BE USED WITH WARNING SIGNS SPECIFYING THE DISTANCE TO THE CONDITION IF THERE IS AN IN-BETWEEN INTERSECTION THAT MIGHT CONFUSE THE MOTORIST.

* PLACEMENT SHOULD BE IN ACCORDANCE WITH WARNING SIGN PLACEMENT TABLE.

| <p align="center">Computer File Information</p> <p>Creation Date: 07/04/12 Initials: KEN</p> <p>Last Modification Date: 12/8/14 Initials: KEN</p> <p>Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans</p> <p>Drawing File Name: S-630-01_24of24.dgn</p> <p>CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English</p> | | <p align="center">Sheet Revisions</p> <table border="1"> <tr> <th>Date:</th> <th>Comments</th> </tr> <tr> <td>07/26/13</td> <td>CHANGE W20-7a SIGN CODE TO W20-7</td> </tr> <tr> <td>12/8/14</td> <td>FORMERLY SHEET 20.</td> </tr> </table> | | Date: | Comments | 07/26/13 | CHANGE W20-7a SIGN CODE TO W20-7 | 12/8/14 | FORMERLY SHEET 20. | <p align="center">Colorado Department of Transportation</p> <p align="center">  4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219 </p> <p align="center">Safety & Traffic Engineering Branch KCM/KEN</p> | | <p align="center"> TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION </p> <p align="center">Issued By: Safety & Traffic Engineering Branch July 4, 2012</p> | | <p align="center">STANDARD PLAN NO.</p> <p align="center">S-630-1</p> <p align="center">Sheet No. 24 of 24</p> | |
|--|----------------------------------|---|--|-------|----------|----------|----------------------------------|---------|--------------------|---|--|--|--|---|--|
| Date: | Comments | | | | | | | | | | | | | | |
| 07/26/13 | CHANGE W20-7a SIGN CODE TO W20-7 | | | | | | | | | | | | | | |
| 12/8/14 | FORMERLY SHEET 20. | | | | | | | | | | | | | | |