

TABULATION OF LENGTH & DESIGN DATA	
STATION	LINEAR FEET
	ROADWAY
APPROACH TO PROJECT	
STA. 1071+23.00 TO STA. 1076+63.00	540
BEGIN PROJECT 37TH STREET =	
STA. 1076+63.00	1484
END PROJECT 37TH STREET =	
STA. 1091+47.00	
APPROACH TO PROJECT	
STA. 1091+47.00 TO STA. 1098+75.00	728
TOTAL	2752
BEGIN PROJECT 47TH AVENUE	
STA. 3001+17.00	717
END PROJECT 47TH AVENUE	
STA. 3008+34.00	
TOTAL	717
SUMMARY OF PROJECT LENGTH	
PROJECT GROSS LENGTH	3469

DESIGN DATA	37TH STREET (40 MPH)	47TH AVENUE ARROWHEAD DRIVE (40 MPH)
MAXIMUM RADIUS OF CURVE	N/A	450 FT.
MAXIMUM GRADE	2.29%	6.00%
MINIMUM S.S.D. HORIZONTAL	550 FT.	550 FT.
MINIMUM S.S.D. VERTICAL	305 FT.	305 FT.
MAXIMUM DESIGN SPEED	40 MPH	40 MPH
2040 DESIGN TRAFFIC	ADT 23,000	ADT 14,000
DHV TRUCK %	2%	2%
CLEAR ZONE DISTANCE (TANGENT)	26-32 FT.	26-32 FT.

CITY OF EVANS, COLORADO

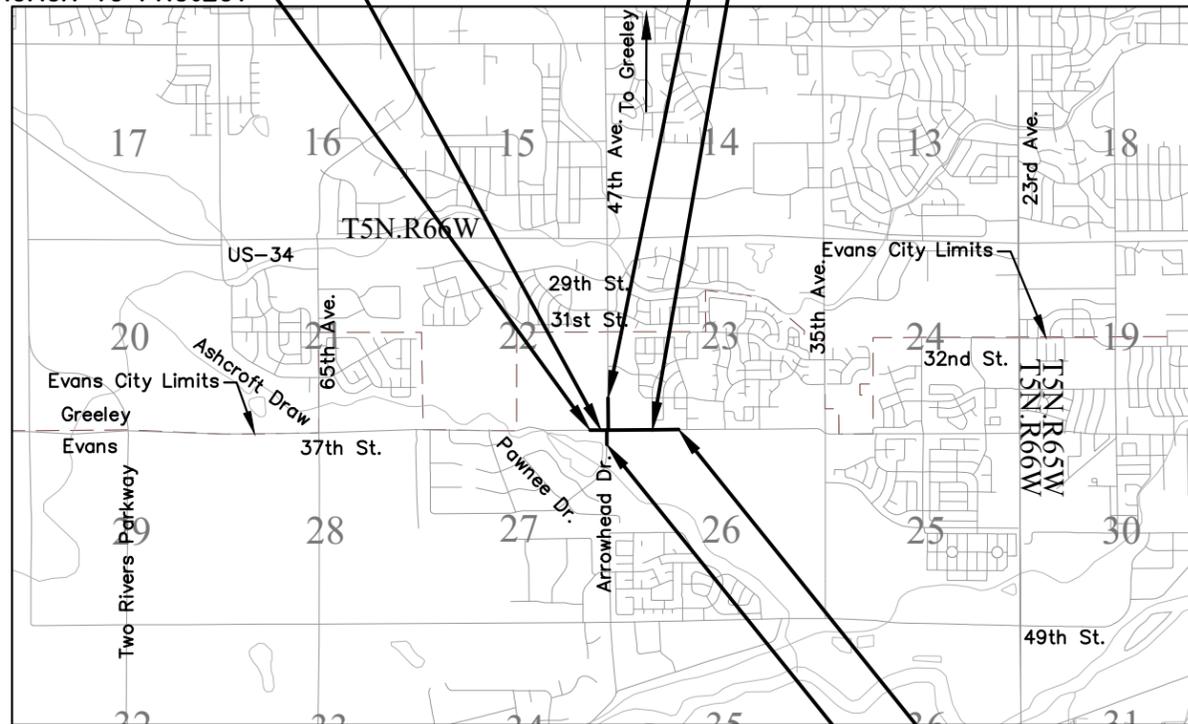
CONSTRUCTION BID PLANS OF PROPOSED 37TH STREET WIDENING PHASE 1 WELD COUNTY

PROJECT NO. AQC M415-021
SUB ACCOUNT NO. 23049

PoDI / NHS	
FHWA PROJECTS OF DIVISION INTEREST (PoDI)?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
NATIONAL HIGHWAY SYSTEM?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST
3	SURVEY CONTROL SHEET
4	SURVEY CONTROL TABULATION
5-11	TYPICAL SECTIONS
12-14	GENERAL NOTES
15-18	SUMMARY OF APPROXIMATE QUANTITIES
19-22	TABULATION SHEETS
23-34	DETAIL SHEETS
35-39	ROUNDAABOUT MEDIAN DETAIL SHEETS
40	CONCRETE JOINT DETAIL SHEET
41-47	ROADWAY PLANS
48-51	ROADWAY PROFILES
52-55	ROUNDAABOUT GUTTER PLAN AND PROFILES
56-57	ROAD APPROACHES
58-61	STORM SEWER PLAN AND PROFILES
62-64	WATERLINE PLAN AND PROFILES
65-66	UTILITY INFORMATION
67-73	UTILITY PLANS
74-100	STORM WATER MANAGEMENT PLANS
101-122	LANDSCAPING PLANS
123-142	IRRIGATION PLANS
143-148	CONSTRUCTION PHASING PLANS
149	DETOUR PLAN
150-154	SIGNING AND STRIPING TABULATION
155-162	SIGNING AND STRIPING PLANS
200-208	CROSS SECTIONS

STA. 1071+23.00 TO 1076+63.00 APPROACH TO PROJECT
 STA. 1076+63.00 BEGIN PROJECT 37TH STREET
 STA. 3001+17.00 BEGIN PROJECT 47TH AVENUE
 STA. 3008+34.00 END PROJECT 47TH AVENUE
 STA. 1091+47.00 END PROJECT 37TH STREET
 STA. 1091+47.00 TO STA. 1098+75.00 APPROACH TO PROJECT



PROJECT LOCATION MAP



Know what's below.
Call before you dig.

PROJECT LIST OF CONTACTS		
City of Evans	Mark Oberschmidt	970-475-1110
Utilities	See Utility Plans	

Plot Date: 11/21/2022 1:05 PM. Plotted By: Sarah Hemler. C:\PROJETS\ACTIVE PROJECTS\33000 LEWIS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\11802-SHEET FILES\ROUNDABOUT\GN P1-001 TITLE SHEET.DWG

Print Date: 11/21/2022
 File Name: GN P1-001 TITLE SHEET.DWG
 Horiz. Scale: As Noted Vert. Scale: N/A

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Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 TITLE SHEET	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: GENERAL	Subset Sheets: 1 of 2

Project No.
AQC M415-021
Drawing Number GN-001
Sheet Number 1

ADVERTISEMENT SET 12/1/2022

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3
<input checked="" type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7
<input type="checkbox"/> M-203-1	APPROACH ROADS	8
<input type="checkbox"/> M-203-2	DITCH TYPES	9
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14
<input checked="" type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18
<input checked="" type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-29
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS	32
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34
<input checked="" type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (5 SHEETS)	35-39
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (4 SHEETS) <i>(NEW, ISSUED ON OCTOBER 7, 2019)</i>	
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	41-42
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	43-44
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	45-46
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES	47
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51
<input checked="" type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS)	52-55
<input checked="" type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	56
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT <i>(REVISED ON SEPTEMBER 10, 2020)</i>	57
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND POLYPROPYLENE PIPE (AASHTO M330)	58
<input checked="" type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	59
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS	61
<input type="checkbox"/> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS)	62-64
<input type="checkbox"/> M-604-10	INLET, TYPE C	65
<input checked="" type="checkbox"/> M-604-11	INLET, TYPE D	66
<input checked="" type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68
<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13	69
<input checked="" type="checkbox"/> M-604-20	MANHOLES (3 SHEETS)	70-72
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS)	73-77
<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS	78

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	79-97
<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101
<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) <i>(REVISED ON AUGUST 21, 2020)</i>	102-104
<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	105-115
<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118
<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121
<input type="checkbox"/> M-607-3	BARRIER FENCE	122
<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS) <i>(REVISED ON JULY 13, 2020)</i>	123-127
<input type="checkbox"/> M-607-10	PICKET SNOW FENCE	128
<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137
<input checked="" type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS)	138-147
<input checked="" type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151
<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS)	152-153
<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS)	154-155
<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS)	156-158
<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS)	159-160
<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3	161
<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5	162
<input type="checkbox"/> M-616-1	INVERTED SIPHON	163
<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1	164
<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166
<input type="checkbox"/> M-620-11	FIELD OFFICE CLASS 1	167
<input type="checkbox"/> M-620-12	FIELD OFFICE CLASS 2	168
<input checked="" type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170

PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)	171-178
<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS) <i>(REVISED ON SEPTEMBER 30, 2020)</i>	179-186
<input type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) <i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</i>	
<input checked="" type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	187-188
<input checked="" type="checkbox"/> S-614-2	CLASS I SIGNS	189
<input type="checkbox"/> S-614-3	CLASS II SIGNS	190
<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS)	191-193
<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	194-195
<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	196-197
<input type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS) <i>(REVISED ON DECEMBER 31, 2020)</i>	198-204
<input type="checkbox"/> S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) <i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i>	205-206
<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS	207
<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	208
<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	209-210
<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS)	211-214
<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS	215
<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS) <i>(REVISED ON SEPTEMBER 21, 2020)</i>	216-217
<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)	219-223
<input type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS)	224-227
<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)	228-240
<input type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)	241-244
<input type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS)	245-252
<input type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)	253-254
<input type="checkbox"/> S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS) <i>(REVISED ON DECEMBER 3, 2020)</i>	
<input type="checkbox"/> S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)	255-266
<input type="checkbox"/> S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)	267-280
<input checked="" type="checkbox"/> S-627-1	PAVEMENT MARKINGS (9 SHEETS) <i>(REVISED ON FEBRUARY 16, 2021)</i>	281-289
<input checked="" type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (24 SHEETS)	290-313
<input checked="" type="checkbox"/> S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP.) AND VERTICAL PANELS	314
<input type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS	315
<input type="checkbox"/> S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	316-317
<input type="checkbox"/> S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)	318-319
<input type="checkbox"/> S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)	320
<input type="checkbox"/> S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	321-323

COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
July 31, 2019
Revised on February 16, 2021

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

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX , AND WILL BE ATTACHED TO THE PLANS. ALL THE OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
C:\PROJECTS\ACTIVE PROJECTS\33001\LEWIS 37TH ST AND 47TH AVE PLANS\10-COMPUTER DESIGN FILES\11-NOV-2021-SHEET FILES\ROUNDABOUT\GN P1-002 STANDARD PLANS LIST.DWG

Print Date: 11/21/2022
File Name: GN P1-002 STANDARD PLANS LIST.DWG
Horiz. Scale: N/A Vert. Scale: N/A



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Sheet Revisions		
Date	Comments	Initials





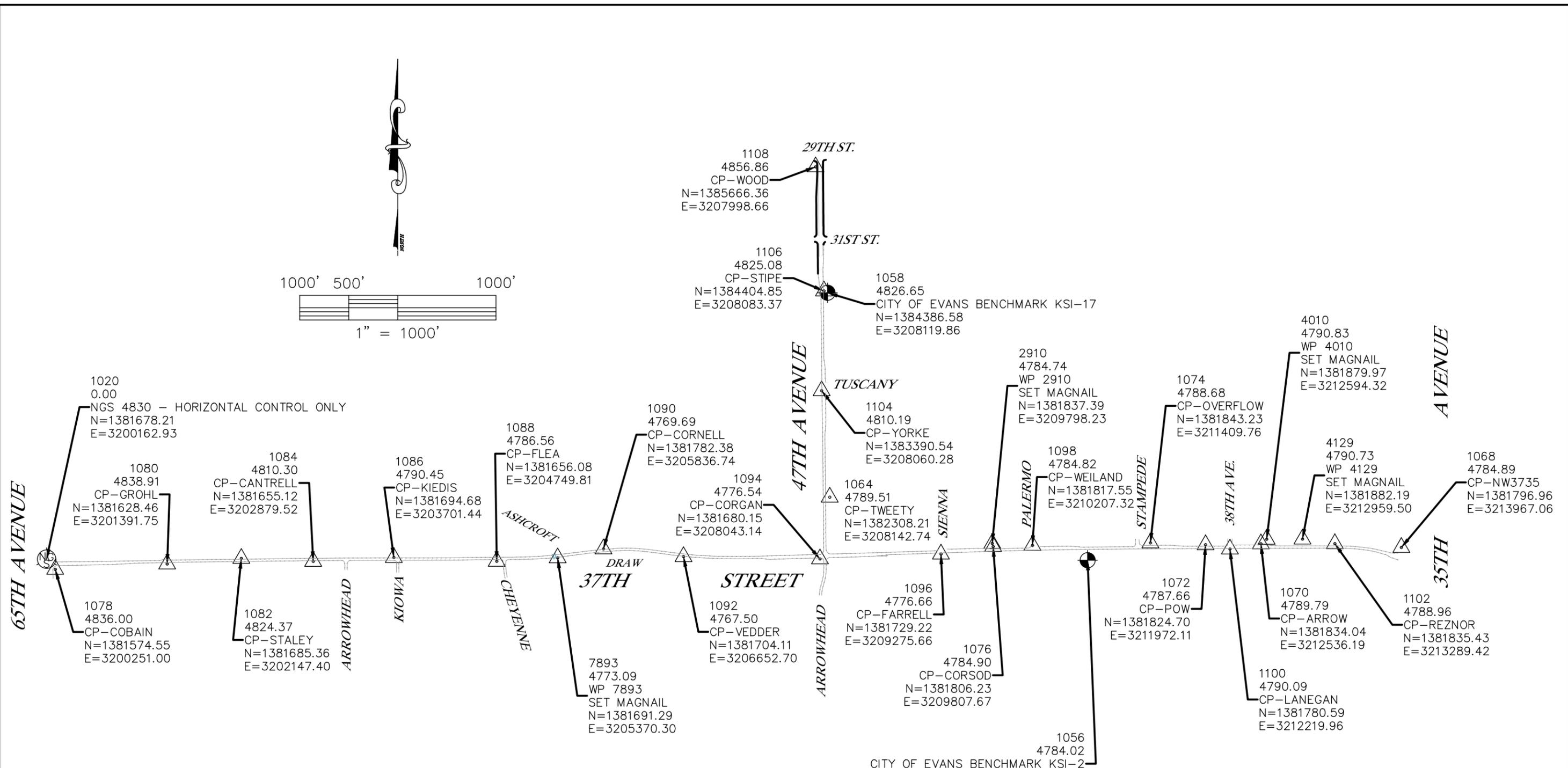
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 STANDARD PLANS LIST	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: GENERAL	Subset Sheets: 2 of 2

Project No.
AQC M415-021
Drawing Number GN-002
Sheet Number 2

ADVERTISEMENT SET 12/1/2022

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hentler
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HORIZONTAL DATUM

Project coordinates are Colorado State Plane, North Zone, NAD 83/2011 coordinates that have been scaled to ground using a combined factor of 1.00026824 about an origin of 0,0.
 Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing x 1.00026824).
 Scale about an origin of 0,0.
 Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting x 1.00026824).
 Scale about an origin of 0,0.

VERTICAL DATUM

Project elevations are based on City of Evans Benchmarks (NAVD88).

Print Date: 11/21/2022
 File Name: SC P1-001 SURVEY CONTROL SHEET.DWG
 Horiz. Scale: As Noted Vert. Scale: N/A

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Sheet Revisions		
Date	Comments	Initials

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No Revisions:
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Void:

37TH STREET WIDENING PHASE 1 SURVEY CONTROL DIAGRAM	
Designer: AD	Structure Numbers
Detailer: MCD	
Sheet Subset: SURVCON	Subset Sheets: 1 of 1

Project No.
AQC M415-021
Drawing Number SC-001
Sheet Number 3

ADVERTISEMENT SET 12/1/2022

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

- Format *
- 3D Design Modeling Electronic Files _____
 - Horizontal Control _____
 - Vertical Control _____
 - Roadway Alignment _____
 - Original Terrain Data _____
 - Other: _____

* Specify the information format, i.e., 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
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: _____

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

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

- A complete passing Base Line report (completed within 6 months prior to the start of the project)
- An instrument calibration Certification (completed within 6 months prior to the start of the project)
- 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
- 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 (See General Notes)

- 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
Excavation	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	-	Y	-	-
	-	-	-	-
	-	Y	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- 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: _____

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

- 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: _____

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

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

- 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: _____

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

- 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 CDDT 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 _____ days prior to the Presurvey Conference - Construction Survey.
- 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.
- The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- 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): _____
- The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
 - All required Instrument Calibrations

Print Date: 11/21/2022
 File Name: SCT P1-001 SURVEY CONTROL TABULATION.DWG
 Horiz. Scale: N/A Vert. Scale: N/A

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 12076 Grant Street
 Thornton, CO 80241
 Ph: (303) 962-9300
 Fax: (303) 962-9350

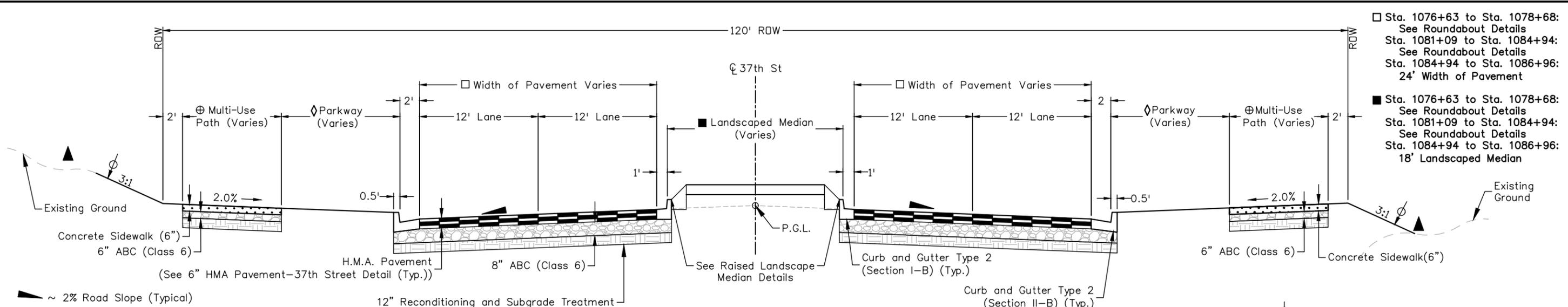
Sheet Revisions		
Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 1 SURVEY CONTROL TABULATION		Project No.
No Revisions:			AQC M415-021
Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number SCT-001
Void:	Detailer: S. Hemler	Sheet Subset: SURVCON TAB	Sheet Number 4
	Subset Sheets: 1 of 1		

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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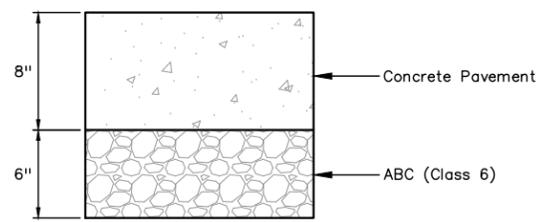
TYPICAL SECTION ROADWAY 37TH STREET

Sta. 1076+63.00 to 1078+68.00
Sta. 1081+09.00 to 1086+96.00

- ◊ Sta. 1076+63 to Sta. 1078+77 Lt. and Rt.: 0'
- ◊ Sta. 1081+09 to Sta. 1082+35 Lt. and Rt.: 0'
- ◊ Sta. 1082+35 to Sta. 1082+75 Rt.: 0'-12'
- ◊ Sta. 1082+75 to Sta. 1086+96 Rt.: 12'
- ◊ Sta. 1084+24 to Sta. 1084+74 Lt.: 0'-12'
- ◊ Sta. 1084+74 to Sta. 1086+96 Lt.: 12'
- ⊕ Sta. 1076+63 to Sta. 1077+65 Lt.: 8'
- ⊕ Sta. 1077+65 to Sta. 1078+15 Lt.: 8'-10'
- ⊕ Sta. 1078+15 to Sta. 1078+68 Lt.: 10'
- ⊕ Sta. 1081+09 to Sta. 1086+96 Lt.: 10'
- ⊕ Sta. 1076+63 to Sta. 1078+68 Rt.: 10'
- ⊕ Sta. 1081+09 to Sta. 1084+24 Rt.: 9'
- ⊕ Sta. 1084+24 to Sta. 1086+96 Rt.: 10'

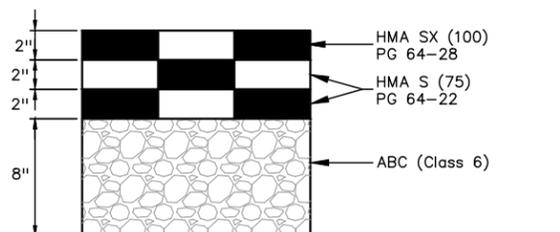
6" HMA PAVEMENT SECTION- 47TH AVENUE

Sta. 3001+17.00 to Sta. 3002+88.00
Sta. 3005+12.00 to Sta. 3008+34.00



CONCRETE PAVEMENT SECTION INTERSECTION 37TH ST & 47TH AVE

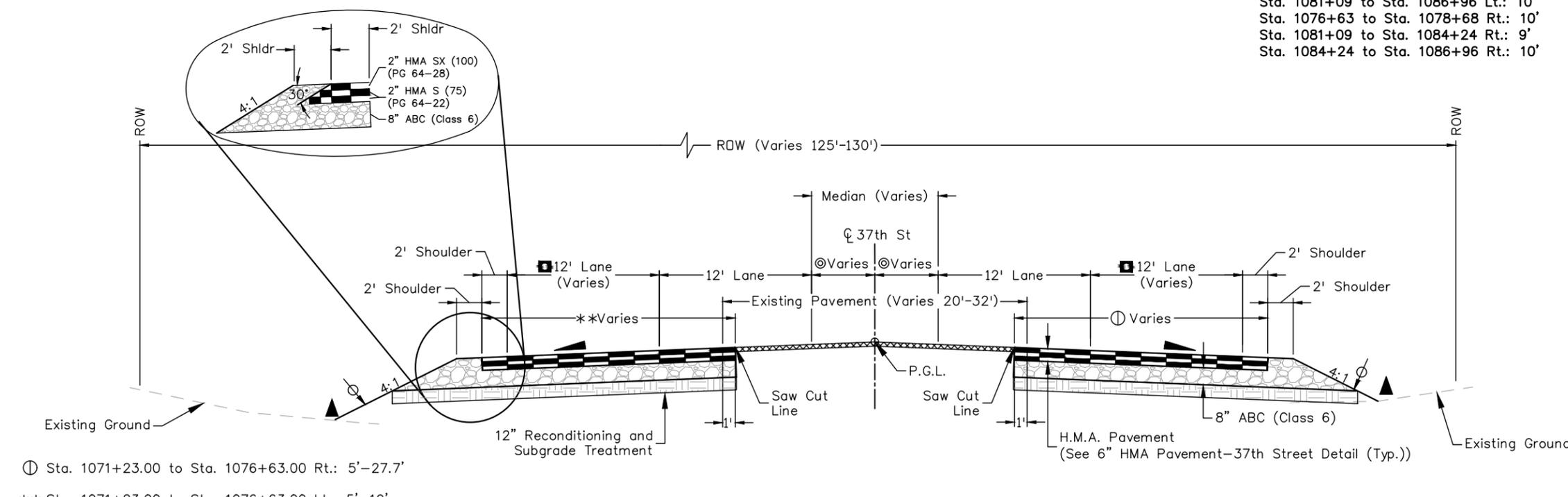
Sta. 1078+68.00 to Sta. 1081+09.00
Sta. 3002+83.00 to Sta. 3005+12.00



6" HMA PAVEMENT SECTION- 37TH STREET

Sta. 1071+23.00 to Sta. 1078+68.00
Sta. 1081+09.00 to Sta. 1098+75.00

~ 2% Road Slope (Typical)
~ Limits of topsoil placement
~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage
The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



TYPICAL SECTION ROADWAY 37TH STREET - APPROACH TO PROJECT

Sta. 1071+23.00 to 1076+63.00

- ⊕ Sta. 1071+23.00 to Sta. 1076+63.00 Rt.: 5'-27.7'
- ** Sta. 1071+23.00 to Sta. 1076+63.00 Lt.: 5'-19'
- Sta. 1071+23.00 to Sta. 1076+63.00 Lt. and Rt.: 0'-12'
- ⊙ Sta. 1071+23.00 to Sta. 1076+63.00 Lt.: 0'-8.1'
- ⊙ Sta. 1071+23.00 to Sta. 1076+63.00 Rt.: 0'-14.2'

■ Sta. 1071+23.00 to Sta. 1076+63.00: 2" Mill and Overlay Hot Mix Asphalt (Grading SX)(100)(PG 64-28)

Plot Date: 12/12/2022 9:02 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

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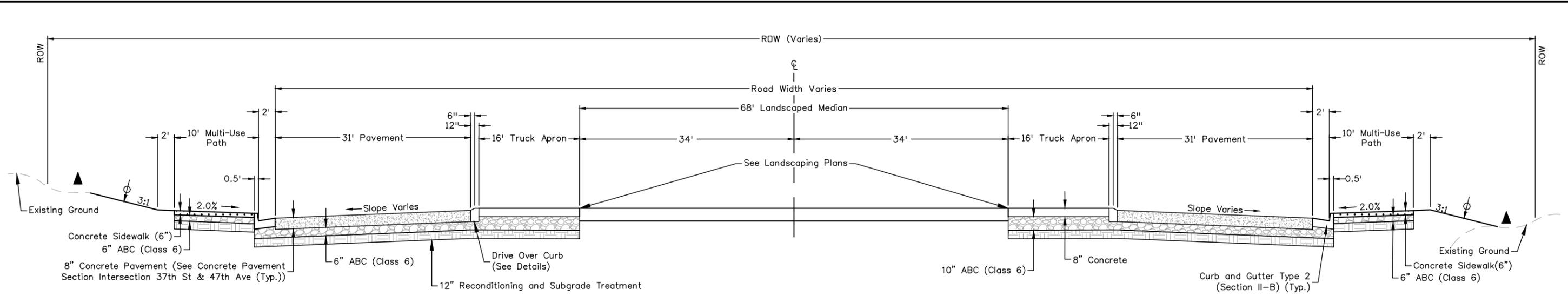
12076 Grant Street
Thornton, CO 80241
Ph: (303) 962-9300
Fax: (303) 962-9350

Sheet Revisions		
Date:	Comments	Init.

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Void:

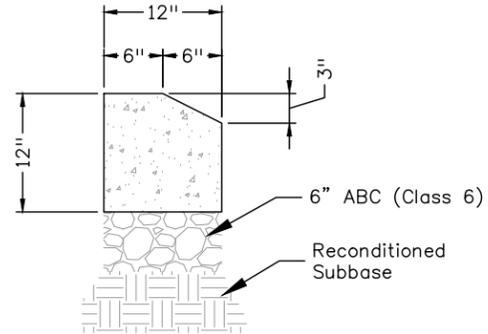
37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS	
Designer:	T. Tuttle
Detailer:	S. Hemler
Sheet Subset:	TYPICALS
Structure Numbers	Subset Sheets: 1 of 7

Project No.
AQC M415-021
Drawing Number TYP-001
Sheet Number 5

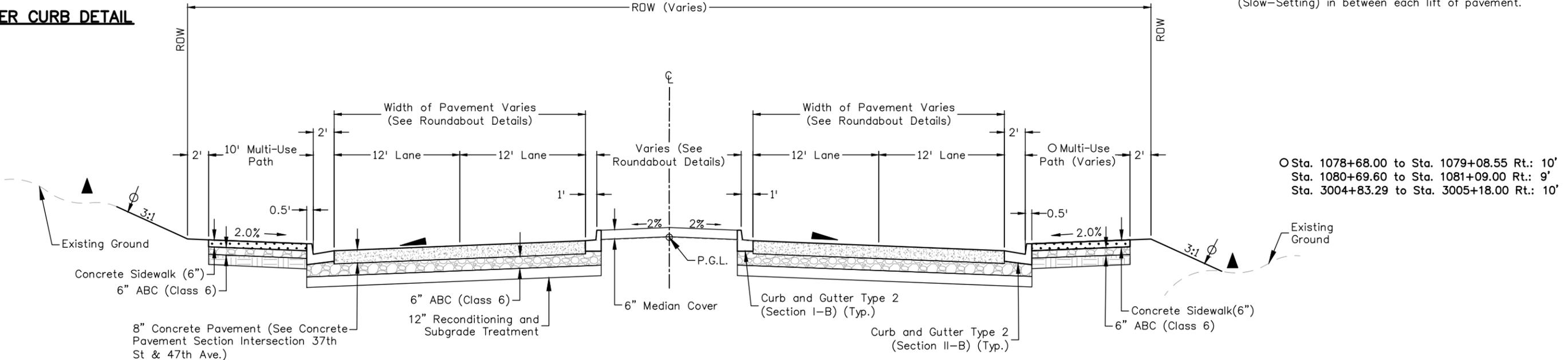


TYPICAL SECTION CIRCULATING ROADWAY

Sta. 1079+08.55 to 1080+69.60
Sta. 3003+16.71 to 3004+83.29



DRIVE-OVER CURB DETAIL



TYPICAL SECTION ROADWAY 37TH STREET AND 47TH AVENUE

Sta. 1078+68.00 to Sta. 1079+08.55
Sta. 1080+69.60 to Sta. 1081+09.00
Sta. 3004+83.29 to Sta. 3005+18.00

○ Sta. 1078+68.00 to Sta. 1079+08.55 Rt.: 10'
Sta. 1080+69.60 to Sta. 1081+09.00 Rt.: 9'
Sta. 3004+83.29 to Sta. 3005+18.00 Rt.: 10'

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022
File Name: TYP P1-001-37TH.DWG
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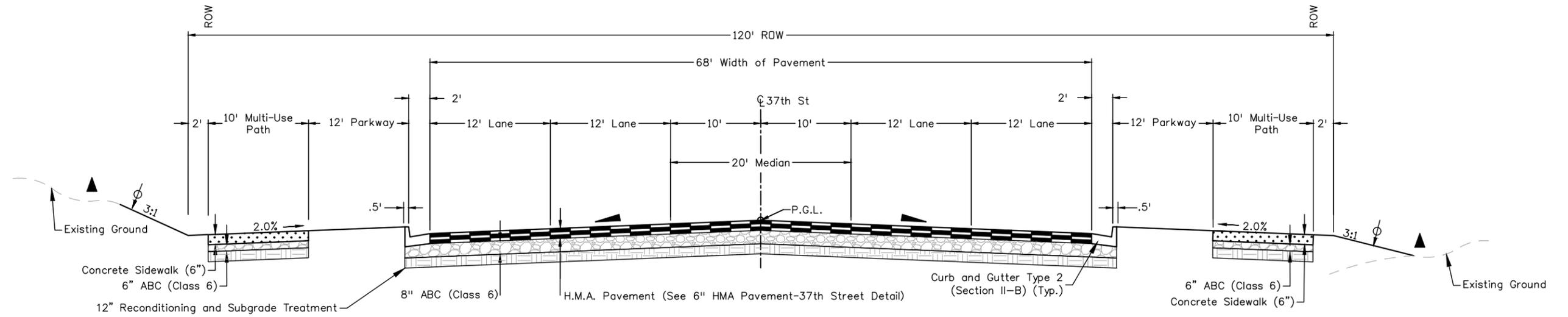
Sheet Revisions		
Date:	Comments	Init.

As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: TYPICALS	Subset Sheets: 2 of 7

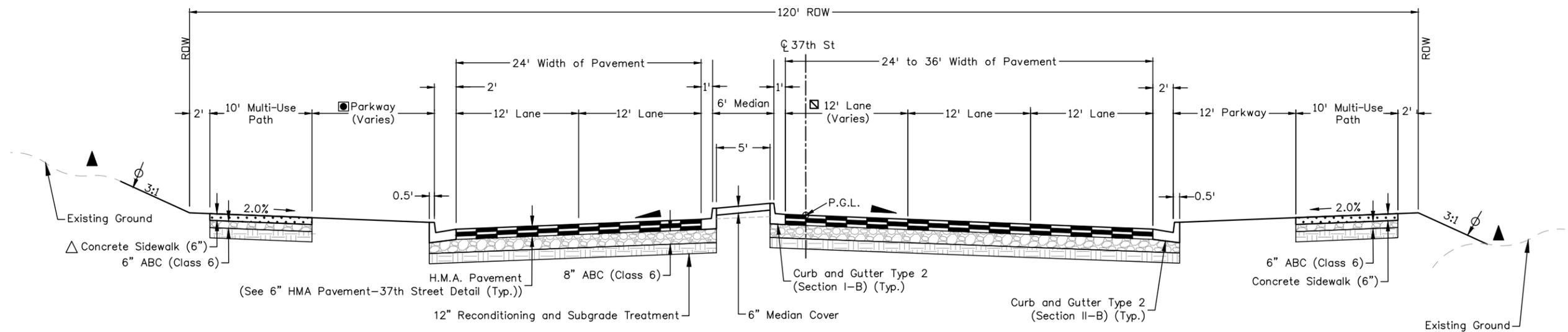
Project No.
AQC M415-021
Drawing Number TYP-002
Sheet Number 6

ADVERTISEMENT SET 12/1/2022



TYPICAL SECTION ROADWAY 37TH STREET
Sta. 1089+97.00 to 1090+57.00

- ~ 2% Road Slope (Typical)
 - ⊕ ~ Limits of topsoil placement
 - ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage
- The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



TYPICAL SECTION ROADWAY 37TH STREET
Sta. 1086+96.00 to 1089+97.00
Sta. 1090+57.00 to 1091+33.00

- △ Sta. 1086+96 to Sta. 1088+58 Rt.: 0'-12'
- Sta. 1088+58 to Sta. 1089+97 Rt.: 12'
- Sta. 1090+57 to Sta. 1091+33 Rt.: 12'
- Sta. 1086+96 to Sta. 1089+97 Lt.: 12'
- Sta. 1090+57 to Sta. 1090+70 Lt.: 12'
- Sta. 1090+70 to Sta. 1090+90 Lt.: 12'-7'
- Sta. 1090+90 to Sta. 1091+05 Lt.: 7'
- Sta. 1091+05 to Sta. 1091+25 Lt.: 7'-12'
- Sta. 1091+25 to Sta. 1091+33 Lt.: 12'

△ 8" Concrete Sidewalk: Sta. 1089+18 to Sta. 1089+38

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022
 File Name: TYP P1-001-37TH.DWG
 Horiz. Scale: NTS Vert. Scale: NTS

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 Thornton, CO 80241
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 Fax: (303) 962-9350

Sheet Revisions		
Date:	Comments	Init.

City of **Evans, Colorado**

FREEDOM Parkway

CDOT

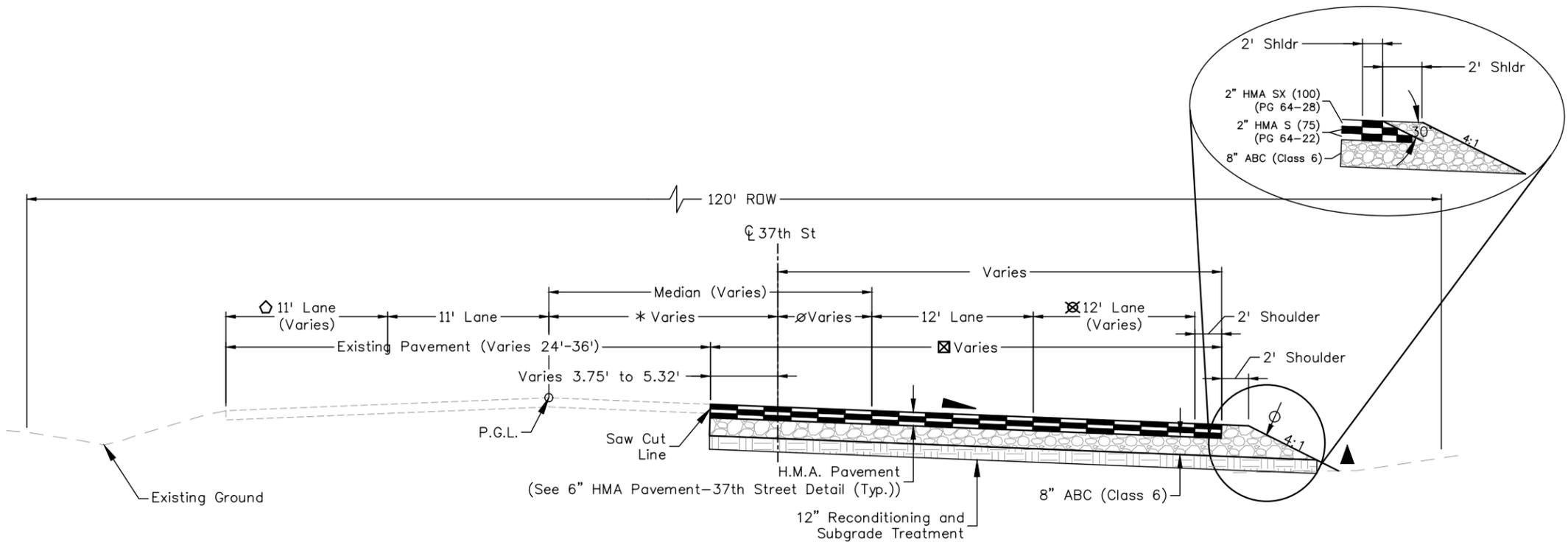
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: TYPICALS	Subset Sheets: 3 of 7

Project No.
AQC M415-021
Drawing Number TYP-003
Sheet Number 7

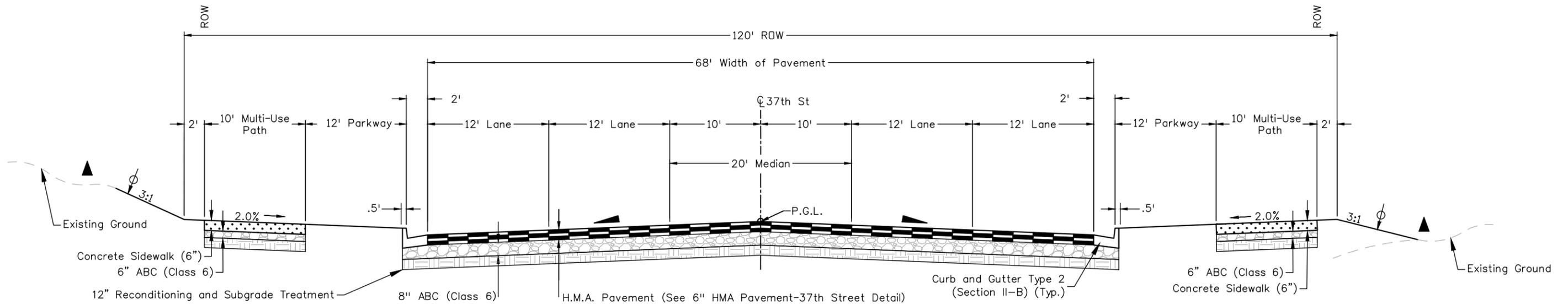
ADVERTISEMENT SET 12/1/2022

- ⊗ Sta. 1091+47 to Sta. 1093+35 Rt.: 12'
Sta. 1093+35 to Sta. 1098+75 Rt.: 12'-0'
- ◇ Sta. 1092+37 to Sta. 1094+83 Lt.: 12'
Sta. 1094+83 to Sta. 1096+77 Lt.: 12'-0'
Sta. 1096+77 to Sta. 1098+75 Lt.: 0'
- ⊗ Sta. 1091+47 to Sta. 1093+35 Rt.: 40'
Sta. 1093+35 to Sta. 1098+75 Rt.: 40'-2'
- ∅ Sta. 1091+47 to Sta. 1093+35 Rt.: 10'
Sta. 1093+35 to Sta. 1095+37 Rt.: 10'-0'
Sta. 1095+37 to Sta. 1098+75 Rt.: 0'
- * Sta. 1091+47 to Sta. 1095+37 Lt.: 16'
Sta. 1095+37 to Sta. 1098+75 Lt.: 16'-0'



TYPICAL SECTION ROADWAY 37TH STREET – APPROACH TO PROJECT
Sta. 1091+47.00 to 1098+75.00

- ▲ ~ 2% Road Slope (Typical)
 - ⊕ ~ Limits of topsoil placement
 - ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage
- The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



TYPICAL SECTION ROADWAY 37T STREET
Sta. 1091+33.00 to 1091+47.00

Print Date: 11/21/2022	File Name: TYP P1-001-37TH.DWG
Horiz. Scale: NTS	Vert. Scale: NTS
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Sheet Revisions		
Date:	Comments	Init.



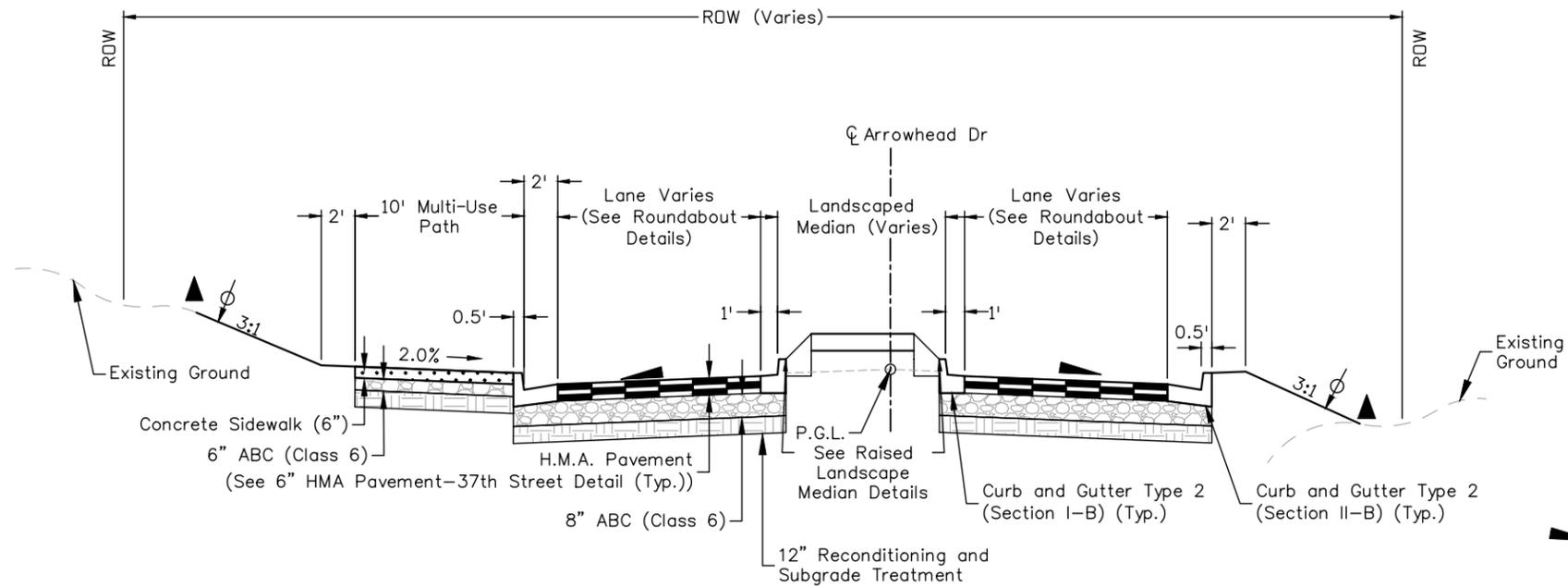
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	Structure Numbers
Sheet Subset: TYPICALS	Subset Sheets: 4 of 7

Project No.
AQC M415-021
Drawing Number TYP-004
Sheet Number 8

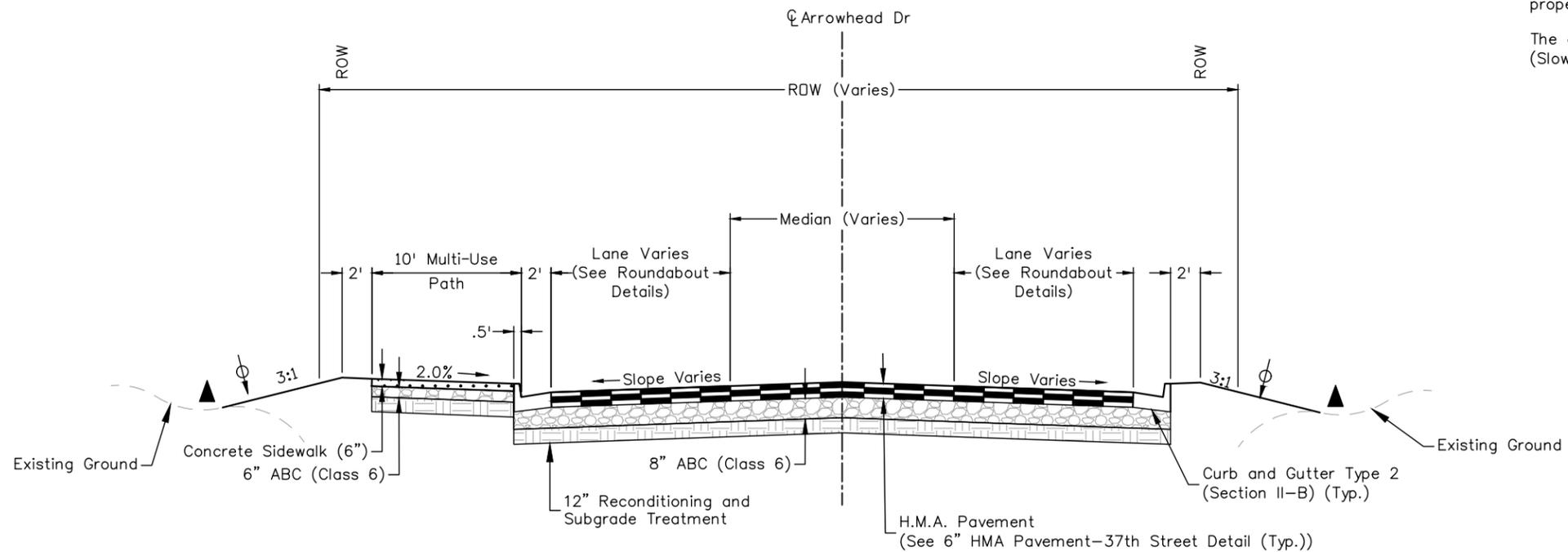
Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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TYPICAL SECTION ROADWAY ARROWHEAD DRIVE
Sta. 3002+14.00 to 3002+83.00

- ~ 2% Road Slope (Typical)
 - ~ Limits of topsoil placement
 - ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage
- The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



TYPICAL SECTION ROADWAY ARROWHEAD DRIVE
Sta. 3001+17.00 to 3002+14.00

Print Date: 11/21/2022	
File Name: TYP P1-001-37TH.DWG	
Horiz. Scale: NTS	Vert. Scale: NTS
	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date:	Comments	Init.



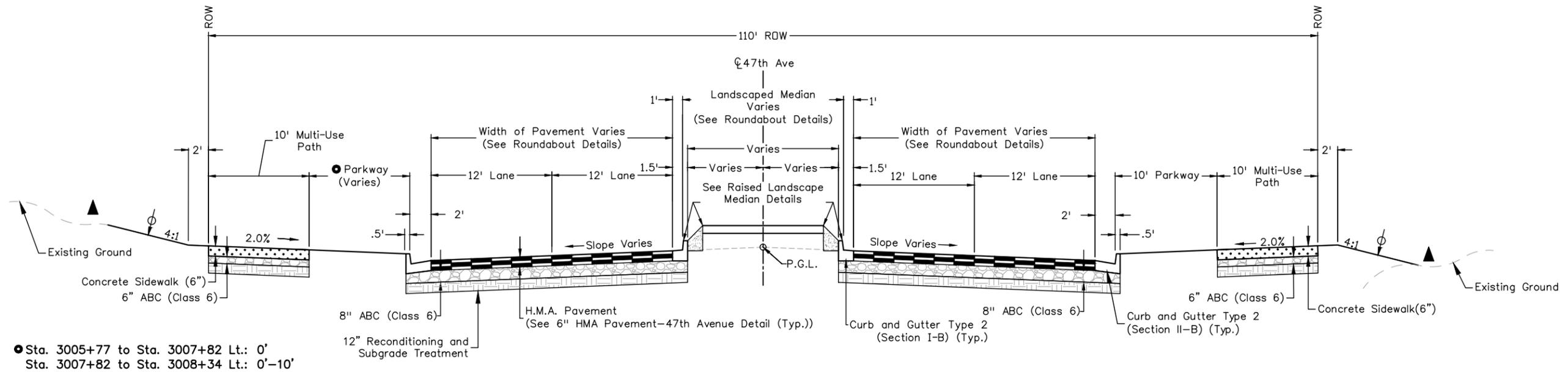
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	TYPICALS	Subset Sheets: 5 of 7

Project No.
AQC M415-021
Drawing Number TYP-005
Sheet Number 9

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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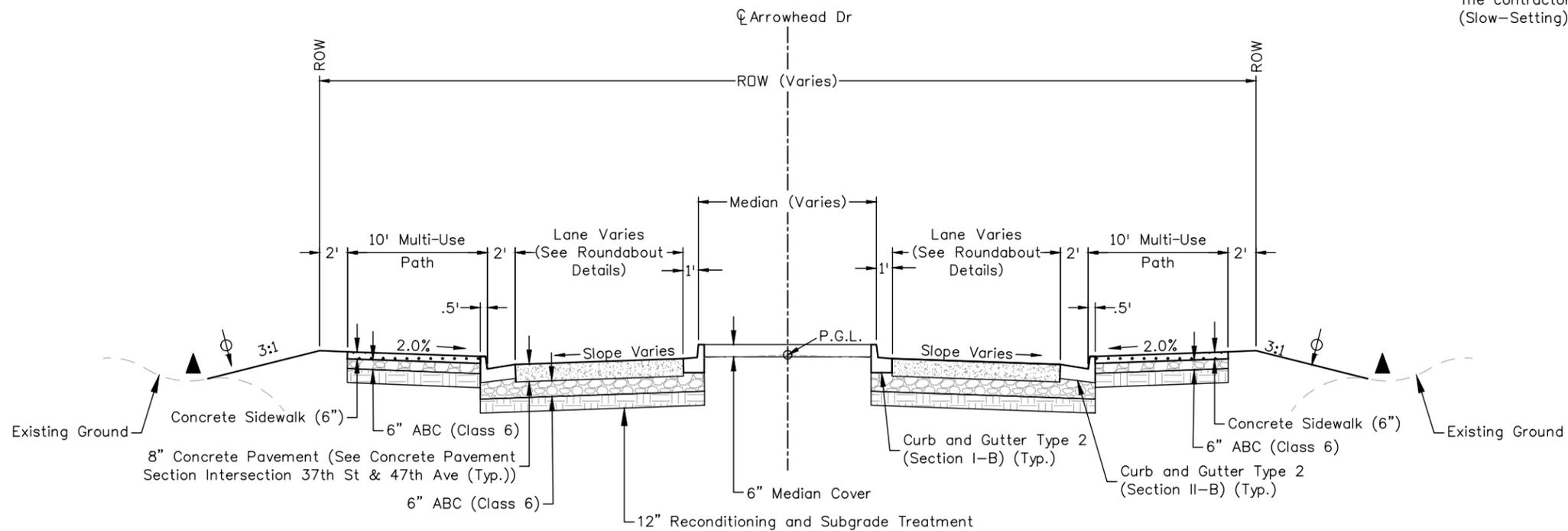


● Sta. 3005+77 to Sta. 3007+82 Lt.: 0'
 Sta. 3007+82 to Sta. 3008+34 Lt.: 0'-10'

TYPICAL SECTION ROADWAY 47TH AVENUE
 Sta. 3005+18.00 to 3008+34.00

- ~ 2% Road Slope (Typical)
- ~ Limits of topsoil placement
- ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage

The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.

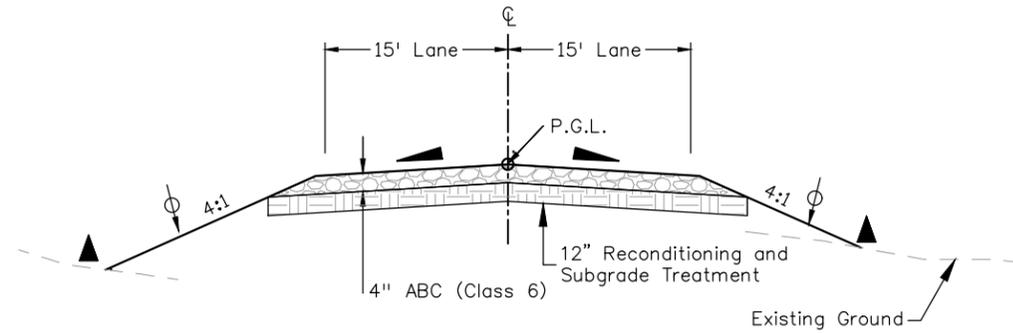


TYPICAL SECTION ROADWAY ARROWHEAD DRIVE
 Sta. 3002+83.00 to 3003+16.71

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	Sheet Revisions				As Constructed	37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS		Project No.
File Name: TYP P1-001-37TH.DWG	Date:	Comments	Init.		No Revisions:	Designer: T. Tuttle	Structure Numbers	AQC M415-021
Horiz. Scale: NTS	Vert. Scale: NTS			Revised:	Detailer: S. Hemler		Drawing Number TYP-006	
	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350			Void:	Sheet Subset: TYPICALS	Subset Sheets: 6 of 7	Sheet Number 10	

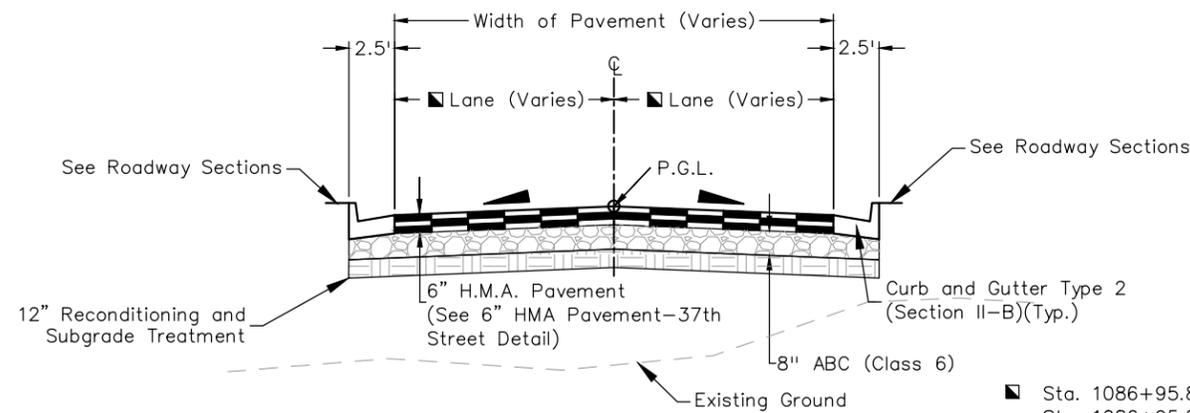
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TYPICAL SECTION – AGRICULTURAL ACCESS
Sta. 1091+90.08

- ▲ ~ 2% Road Slope (Typical)
- ⊕ ~ Limits of topsoil placement
- ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage

The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



TYPICAL SECTION – STREETS
Sta. 1086+95.89 Lt. Tuscan Way
Sta. 1086+95.89 Rt.

■ Sta. 1086+95.89 Lt. Tuscan Way – 17' Lanes
Sta. 1086+95.89 Rt. – 12' Lanes

Plot Date: 11/21/2022 9:36 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: TYP P1-001-37TH.DWG	
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Sheet Revisions		
Date:	Comments	Init.



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 TYPICAL SECTIONS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	TYPICALS	Subset Sheets: 7 of 7

Project No.
AQC M415-021
Drawing Number TYP-007
Sheet Number 11

ADVERTISEMENT SET 12/1/2022

GENERAL CONSTRUCTION NOTES

1. The general contractor shall give the City of Evans at least 48 hours advance notice before beginning construction. A pre-construction meeting with the City of Evans is the required method of notifying the City of construction activity.
2. All contractors and subcontractors shall have a set of approved construction documents on site at all times.
3. The general contractor shall call the utility notification center of Colorado (UNCC) at 1-(800)-922-1987, or the nationwide utility contact number (811), to request locates of all underground utilities at least 48 hours prior to commencement of any land disturbing activity.
4. All vertical and horizontal datum information should be obtained using the Evans geodetic survey conducted by Albers, Drexel & Pohly, Inc. January 9, 1998. A copy of final coordinates, elevations, and monument descriptions can be obtained by contacting the City of Evans engineering division at (970) 475 1160.
5. The general contractor shall be responsible for the locations and protection of all existing utilities shown, all existing utilities not shown, and all proposed utilities on these plans.
6. The Contractor shall limit construction activities to those areas within the limits of disturbance and/or toes of slopes shown on plans. Any disturbance beyond these limits shall be restored to original condition by the Contractor at the Contractor's expense. Construction activities in addition to normal construction procedure shall include the parking of vehicles or equipment, disposal of litter, and any other action which would alter existing conditions.
7. The general contractor shall obtain all necessary permits to complete work, and shall comply with all local, state, and federal regulations.
8. Identifying the need for a permit, preparing the application, and paying the submittal and review fees necessary to secure permits will be the total responsibility of the general contractor. A copy of all permits must be on site at all times.
9. All construction activities must comply with the State of Colorado permitting process for storm water discharge, associated with construction activity. For information, contact the Colorado Department of Public Health, and Environment, Water Quality Control Division, SQCD-PE-B2, 4300 Cherry Creek Drive South, Denver, Colorado 80246-1530, attention permits and enforcement section. (303) 692-3500. The water quality permitting page can be accessed at www.cdphe.state.co.us/wq/permitsunit/wqcdpmt.html.
10. If dewatering is to be used, then a state construction dewatering discharge permit is required if discharge is into a storm sewer, channel, irrigation ditch, or any waters of the United States.
11. All work shall be performed in accordance with the recommendations of the geotechnical soils report and pavement design report, produced, or referenced for this project.
12. The general contractor shall perform the work according to all city, county, state, and federal safety and health regulations. In particular, the "trenching" and "open excavation" operations shall comply with all current O.S.H.A. Regulatory requirements.
13. All water line, sanitary sewer, and storm water construction shall conform to the City of Evans standards and specifications latest revision thereof. A current copy can be downloaded from the City of Evans website at www.evanscolorado.gov.
14. All materials and construction shall conform to the City of Evans standards and specifications latest revision thereof. A current copy can be downloaded from the City of Evans website at www.evanscolorado.gov.
15. The City of Evans follows all traffic control standards set forth in the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD).
16. A traffic control plan must be submitted and approved for any and all utility work performed within the City of Evans right-of-way. Traffic control plans can be emailed to the engineering division attention Mark Oberschmidt at moberschmidt@evanscolorado.gov
17. All street lighting shall conform to the standards and specifications set forth in the City of Evans residential neighborhood design standards.
18. All plantings shall utilize the City of Evans parks and recreation approved landscaping planting list.
19. All seeding shall utilize the City of Evans irrigation design guidelines and the lawn and grass specifications section 02930.

20. There shall be no work performed on the weekends, or holidays except by approval of the City of Evans with a minimum of 24 hours notice.
21. The general contractor shall notify all residents in writing prior to any disruption in service. The notices must have the general contractors phone number and the name of a contact person, and emergency phone number for after hour calls. Notices shall not be left in mailboxes unless properly sent through the U.S. Post office.
22. The general contractor shall be responsible for obtaining their own disposal site for all disposed materials.
23. The engineer who has prepared these plans, by execution and/ or seal hereof does hereby affirm responsibility to the City of Evans, as a beneficiary of said engineer's work, for any errors or omissions contained in these plans. Acceptance of these plans by the City of Evans shall not relieve the engineer who has prepared these plans of such responsibility.
24. It is estimated that 1 sanitary facility will be required on this project.
25. It is estimated that 30 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 specification for additional requirements.

EROSION CONTROL NOTES

1. Erosion control measures must be in place prior to any land disturbing activity commences.
2. A 20' x 20' concrete wash out area or approved equal shall be established near the exit to the site. The area shall be fenced with orange safety fencing on three sides and have an earthen berm, or depression cut into the grade to contain water and concrete from leaving the area. A sign directing all concrete trucks to the washout must be erected at all entrances to the site. The general contractor is responsible for removing all debris from the washout area prior to leaving the site once initial site construction is complete. Burying of the debris is strictly prohibited.
3. Silt fence or approved equal shall be placed along the downgradient perimeter of site.
4. Once final grading is complete, all areas disturbed by construction activities shall be ripped by a grader in corn furrow fashion, or seeded. The furrows shall be perpendicular to the grade of the land.
5. All areas disturbed by construction activities that will remain as outlots, open space, detention ponds, forebays, or trails shall receive 4 inches of top soil and shall be seeded. Soil preparation, fertilizer, compost, seeding, and mulching will be required. Seed tags will be collected by the City of Evans.
6. All seeding required by either the City of Evans engineering division, or planning division shall utilize the City of Evans irrigation design guidelines, lawn and grass specifications section 02930.
7. Grass seed shall be planted with a grass seed drill (not a grain drill) at a depth of 1/2" to 3/4". Broadcast seeding of grass seed is not acceptable. Straw mulch shall be spread and crimped into the soil at a rate of 4,000 lbs/acre. Hydroseeding and hydromulching is acceptable in lieu of drill seeding and crimping of mulch straw, only in areas that are inaccessible to landscaping equipment, and must be approved by the City of Evans prior to use.
8. The developer/owner is responsible for hiring a contractor to remove all temporary erosion control measures once construction is complete and all open space areas, outlots, detention ponds, forebays, and trail corridors are stabilized with at least 80 percent growth of seeded ground cover.
9. A vehicle tracking control strip 25' x 50'x 6" with 1 1/2" to 3" rock is to be placed and maintained by the general contractor at all access points into the construction site.
10. The general contractor shall be responsible for maintaining all erosion control measures and shall be responsible for any and all fines associated with the discharge of sediments, erosion, or pollutants leaving the site as a result of construction activity.
11. No soil stockpile shall exceed 10 feet in height. All soil stockpiles shall be protected from sediment transport by surface roughening, watering, and perimeter silt fencing or earthen berm. Any soil stockpiles remaining after three months from the commencement of construction activities shall be seeded with a temporary cover crop, or removed from the site.

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

Print Date: 11/21/2022		Sheet Revisions			  	As Constructed		37TH STREET WIDENING PHASE 1 GENERAL NOTES		Project No.	
File Name: NT P1-001 GENERAL NOTES.DWG		Date	Comments	Initials		No Revisions:				AQC M415-021	
Horiz. Scale: N/A Vert. Scale: N/A					Revised:		Designer: T. Tuttle		Structure Numbers		Drawing Number NT-001
 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350					Void:		Detailer: J. Jensen		Sheet Subset: NOTES		Subset Sheets: 1 of 3
											Sheet Number 12

GRADING NOTES

- Grades shown on plans are finished grades. For subgrade elevations, refer to the paving sections and details.
- All work shall be performed in accordance with the recommendations of the geotechnical report produced, or referenced for this project.
- All work shall be performed in accordance with the storm water discharge permit issued for this project.
- Erosion control measures outlined on the erosion control/grading plan must be in place prior to commencement of any land disturbing activity. (stockpiling, stripping, grading, etc.).
- All work shall be performed in accordance with the standards and specifications of the City of Evans, and the approved project construction documents.
- The general contractor is responsible for verifying the plan alignment and grade in all roadways, parcels/lots, open spaces, ditches, swales, detention ponds, and forebays so that all drainage is directed in a positive flow to all drainage structures indicated on the construction plans at the completion of construction.
- All utilities (non-potable water lines, potable water lines, sanitary sewer lines, storm drainage, dry utility crossings (gas, electric, telephone, and cable t.v.), manholes, and inlets) within the road right-of-way shall be installed prior to roadway subgrade preparation.
- Subgrade shall be ripped, compacted, and shaped per City standards and specifications. The City of Evans engineering division shall be notified 24 hours in advance to schedule a proof roll of all subgrade where roadways, sidewalks, pans, aprons, curb and gutter, and other public improvements will be placed.
- All parkways, and properties adjacent to sidewalks, shall be backfilled and compacted in a timely manner to prevent weather related standing water from entering the roadway subgrade. The general contractor shall be held liable for any and all damage caused by failure to backfill these areas in a timely manner.
- Testing data by a third party testing company for compaction of all utility trenches, subgrade, and base material is to be submitted to the City of Evans in a timely manner. Email reports to the engineering division attention Mark Oberschmidt at moberschmidt@evanscolorado.gov
- Moisture Density control will be required for the full depth of those embankments on this project. The base of fill areas should be scarified to a depth of not less than 6 inches and compacted to not less than 95% of maximum density $\pm 2\%$ of optimum moisture content as determined by AASHTO T99 or as recommended by a geotechnical engineer, prior to placement of embankment material.
- The minimum thickness of topsoil shall be 4 inches.

ROADWAY IMPROVEMENT NOTES

- All work shall be performed in accordance with the standards and specifications of the City of Evans, and the approved project documents.
- Improvement projects which do not have a developer's agreement shall be required by the City of Evans to execute an application and permit for excavation / construction in public right of way.
- Concrete and asphaltic mix design shall be submitted by the supplier and approved by the City of Evans prior to roadway construction.
- All existing curb and gutter, sidewalk, and ADA ramps damaged during construction shall be repaired at the general contractor's expense, prior to acceptance of completed improvements.
- When an existing street is to be cut, the street must be restored to a condition equal to or better than its original condition. Saw cuts should be a clean straight vertical line parallel or perpendicular to the flow of traffic. Patches shall be 1 inch greater in depth than the existing asphalt material that was removed or as directed by City.
- All large patches (greater than 10' wide and 20' long) shall be paved with by an asphalt lay-down machine. In streets where more than one cut is made, an overlay of the entire street width, including the patched area may be required.

- Street subgrades shall be scarified the top 12 inches and recompact prior to sub-base installation. No base material shall be laid until the subgrade has been inspected by scheduling a proof roll with the City of Evans, and approved by the City of Evans engineering division.
- Prior to pavement installation base material shall be inspected by a proof roll scheduled with the City of Evans, and approved by the City of Evans engineering division.
- Prior to paving an herbicide treatment shall be applied for all new paved areas. It is estimated that 4.0 acres of herbicide treatment will be needed.
- Valve boxes, manholes, cleanouts, and survey monument boxes are required to be brought up to the subgrade level prior to pavement installation. All locations and distances of the valve boxes and manholes should be clearly labeled on the curb and gutter in white paint. Once the pavement is installed all valve boxes, manholes, cleanouts, and survey monument boxes shall be raised to 1/4" below asphalt grade and have a one foot concrete collar installed around the outer diameter of the fittings.
- Nuclear gauge testing data by a third party testing company for compaction and moisture content of all utility trenches, subgrade, and base material is to be submitted to the City of Evans in a timely manner. Email reports to moberschmidt@evanscolorado.gov. Engineering division.
- Concrete curb and gutter, sidewalks, and street paving shall not begin until all testing data has been received by the City of Evans, and subgrade proof rolls accepted by the City of Evans engineering division has been completed.
- It is estimated that 50 hours of proof rolling will be required on this project.
- The general contractor shall maintain all necessary barricades, permanent signs, temporary signs, pavement markings, and other traffic control devices daily during construction and between phases of construction.
- The roadway and related work areas shall be left with a clean and finished appearance. In no case shall material removed from the right-of-way be stockpiled and left in such a manner as to pose a hazard to the public. The general contractor shall remove all debris from the sidewalks, curb and gutters, pans, and driveways at the construction site and dispose of the debris in an appropriate location.
- For preliminary plan quantities of pavement materials, the following rates of application were used:
 Tack Coat Diluted Emulsified Asphalt.....@ 0.1 Gals./Sq. Yd.(Diluted)
 Hot Mix Asphalt.....@ 110 Lbs./Sq. Yd./Inch
 Aggregate Base Course.....@ 133 Lbs./Cu. Ft.
- Diluted emulsified asphalt for tack coat shall consist of 1 part emulsified asphalt and 1 part water.
- Water shall be used as a dust palliative where required. Locations shall be as directed by the Engineer.
- The Contractor shall not park any vehicles or equipment in, or disturb any areas not approved by the Engineer.
- Prior to placing bituminous pavement, the paved surface shall be swept and cleaned. This will not be paid for separately but shall be included in the cost of the Hot Mix Asphalt item.
- The Contractor shall coordinate the shouldering operation such that full compliance to existing grades (3:1 or flatter slopes) is obtained on a daily basis following the paving operation for the affected area prior to opening the pavement to normal traffic operations unless otherwise approved by the Engineer.
- Excavation required for compaction of bases of cuts and fills will be considered subsidiary to that operation and will not be paid for separately.
- Where new pavement is to abut existing pavement, the existing pavement shall be removed to a neat vertical line using a cutting saw or other methods as approved by the Engineer, Saw cutting asphalt will not be paid for separately but shall be included in the cost of Removal of Asphalt Mat.
- The Contractor shall protect all existing survey monumentation designated to remain from damage during construction operations. Any monuments disturbed by the Contractor that are not designated for relocation shall be reset at the Contractor's expense. The Contractor and Engineer shall note those monuments in the field prior to construction.

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: NT P1-001 GENERAL NOTES.DWG	
Horiz. Scale: N/A	Vert. Scale: N/A
 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date	Comments	Initials



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Void:

37TH STREET WIDENING PHASE 1 GENERAL NOTES		
Designer: T. Tuttle	Structure Numbers	
Detailer: J. Jensen		
Sheet Subset: NOTES	Subset Sheets: 2 of 3	

Project No.
AQC M415-021
Drawing Number NT-002
Sheet Number 13

ADVERTISEMENT SET 12/1/2022

1. The following shall be furnished with each bituminous paver:
 - a. A ski type device at least 30 feet in length
 - b. Short ski or shoe
 - c. 1500 feet of control line and stakes
2. Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed
3. Millings shall become the property of the City of Evans and be delivered to 1800 40th Street.

TRAFFIC SIGNING & PAVEMENT MARKING NOTES

1. The City of Evans follows all traffic signage standards set forth in the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD) and CDOT's M&S standards.
2. Locations of existing signs are approximate. The general contractor shall coordinate with the City of Evans to determine if existing signs not shown on the construction plans shall be reset or removed.
3. All signs and pavement markings shall be furnished and installed in accordance with MUTCD standards.
4. The contractor installing the signs shall be responsible for locating and protecting all underground utilities.
5. Street and avenue signs shall be extruded aluminum 6" x 30" minimum, City of Evans standard reflective green background with white block lettering, city logo, and numbering.
6. All signs shall be mounted with vandal-proof bolts.
7. All signs shall be installed on perforated posts with anchors at the proper height as per current MUTCD standards.
8. Sign posts shall meet or exceed the following:
 - A. Posts – 1 3/4" x 1 3/4", 12 gauge, ASTM specification number A4446, grade A, drilled on 1" centers.
 - B. Anchors – 2" x 2", 12 gauge, ASTM specification number A4446, drilled on 1" centers.
 - C. All posts and anchors shall be galvanized to ASTM specification A52 coating designation G90.
9. The City of Evans follows all pavement marking standards set forth in the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD) and CDOT's M&S Standards.
10. All surfaces shall be thoroughly cleaned prior to installation of striping or markings to prepare the pavement surface for proper adhesion. All symbols, including arrows, onlays, crosswalks, stop bars, etc. shall be pre-formed thermoplastic per the City of Evans standards.
11. All pavement marking shall be retroreflective regardless of lighting.
12. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the surface or texture of the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. Under no circumstances shall black paint be used to cover existing markings, or mistakes in striping.

ENVIRONMENTAL NOTES:

1. CDPS Stormwater Construction Permit
 This project has more than one acre of disturbance, therefore a CDPS-SCP permit is required. The contractor shall not commence permit-related work until the permit is received. Work performed must be consistent with that detailed in the stormwater management plan.
2. Burrowing Owls
 Burrowing owls are a state threatened species and are protected under the migratory bird treaty act. No human encroachment or disturbance within 150 feet of the nest site from March 15 through October 31. If project activities are to take place between these times, a burrowing owl survey must be completed by the contractor's biologist before construction activities take place. If burrowing owls are identified on or adjacent to the project, avoidance measures shall be followed as outlined above.

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Print Date: 11/21/2022	
File Name: NT P1-001 GENERAL NOTES.DWG	
Horiz. Scale: N/A	Vert. Scale: N/A
 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date	Comments	Initials



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No Revisions:
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Void:

37TH STREET WIDENING PHASE 1 GENERAL NOTES		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: 3 of 3
Detailer: J. Jensen		
Sheet Subset: NOTES		

Project No.
AQC M415-021
Drawing Number NT-003
Sheet Number 14

ADVERTISEMENT SET 12/1/2022

Plot Date: 11/21/2022 9:02 AM Plotted By: Sarah Hemler
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			201-00000	Clearing and Grubbing	LS	1			1	
			202-00010	Removal of Tree	EACH	16			16	
			202-00015	Removal of Headwall	EACH	4			4	
			202-00025	Removal of Ditch Lining	LF	5			5	
			202-00035	Removal of Pipe	LF	118			118	
			202-00200	Removal of Sidewalk	SY	14			14	
			202-00220	Removal of Asphalt Mat	SY	8,848			8,848	
			202-00240	Removal of Asphalt Mat (Planing)	SY	1,442			1,442	
			202-00250	Removal of Pavement Marking	SF	837			837	
			202-00810	Removal of Ground Sign	EACH	8			8	
			202-00828	Removal of Traffic Signal Equipment	LS	1			1	
			203-00060	Embankment Material (Complete In Place) (Minimum R45)	CY	14,498			14,498	
			203-01100	Proof Rolling	HOUR	50			50	
			203-01500	Blading	HOUR	10			10	
			203-01550	Dozing	HOUR	10			10	
			203-01597	Potholing	HOUR	30			30	
			206-10000	DCP Midstream Trenching	LS	1			0	
			207-00205	Topsoil	CY	1,115			1,115	
			207-00405	Topsoil (Special)	CY	1,137			1,137	
			208-00002	Erosion Log Type 1 (12 Inch)	LF	7,500			7,500	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			208-00035	Aggregate Bag	LF	500			500	
			208-00046	Pre-fabricated Concrete Washout Structure (Type I)	EACH	2			2	
			208-00053	Storm Drain Inlet Protection (Type I) (84 Inch)	EACH	4			4	
			208-00054	Storm Drain Inlet Protection (Type II)	EACH	1			1	
			208-00075	Pre-fabricated Vehicle Tracking Pad	EACH	4			4	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	20			20	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	20			20	
			208-00106	Sweeping (Sediment Removal)	HOUR	300			300	
			208-00107	Removal of Trash	HOUR	8			8	
			208-00207	Erosion Control Management (ECM)	DAY	60			60	
			210-00050	Reset Fire Hydrant	EACH	1			1	
			210-00810	Reset Ground Sign	EACH	3			3	
			210-01710	Reset Valve	EACH	2			2	
			210-04010	Adjust Manhole	EACH	2			2	
			210-04015	Modify Manhole	EACH	2			2	
			212-00006	Seeding (Type I)	ACRE	1.6			2	
			212-00022	Seeding (Type II)	ACRE	0.6			1	
			212-00032	Soil Conditioning	ACRE	2.2			2	
			213-00004	Mulching (Weed Free Straw)	ACRE	2			2	
			213-00005	Wood (Organic) Mulch (Brown Western Red Cedar)(4" Depth)	CF	1,458.0			1,458	

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Sheet Revisions		
Date:	Comments	Init.



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37TH STREET WIDENING PHASE 1 SUMMARY OF APPROXIMATE QUANTITIES
 Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: SAQ
 Structure Numbers
 Subset Sheets: 1 of 4

Project No.
 AQC M415-021
 Drawing Number SAQ-001
 Sheet Number 15

ADVERTISEMENT SET 12/1/2022

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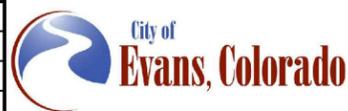
INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			213-00012	Spray-on Mulch Blanket	ACRE	1			1	
			213-00061	Mulch Tackifier	LB	440			440	
			213-00067	Inorganic Mulch (1.5" to 3" Tan River Rock)(3" Depth)(Special)	SF	5,648			5,648	
			213-00318	18 Inch Root Barrier	LF	1,200			1,200	
			213-00440	Metal Landscape Border (1/8" x 4")	LF	1,280			1,280	
			213-00705	Landscape Boulder A (Siloam)(4'l. x 2'w. x 2'h.)(Special)	EACH	73			73	
			213-00705	Landscape Boulder B (Siloam)(3'l. x 2'w. x 2'h.)(Special)	EACH	51			51	
			213-00705	Landscape Boulder C (Siloam)(2'l. x 2'w. x 2'h.)(Special)	EACH	56			56	
			214-00220	Deciduous Tree (2" Cal.) - test	EACH	24			24	
			214-00230	Deciduous Ornamental Tree (1.5" Cal.)	EACH	16			16	
			214-00350	Deciduous Shrub (5 Gal.)	EACH	177			177	
			214-00650	Evergreen Shrub (5 Gal.)	EACH	45			45	
			214-00908	Ornamental Grasses and Perennials (1 Gal.)	EACH	161			161	
			216-00201	Soil Retention Blanket (Straw-Coconut) (Biodegradable Class 1)	SY	137			137	
			217-00000	Herbicide Treatment	ACRE	4			4	
			304-06007	Aggregate Base Course (Class 6)	CY	5,123			5,123	
			403-33741	Hot Mix Asphalt (Grading S)(75)(PG 64-22)	TON	3,435			3,435	
			403-34851	Hot Mix Asphalt (Grading SX)(100)(PG 64-28)	TON	1,900			1,900	
			411-10255	Emulsified Asphalt (Slow Setting)	GAL	1,561			1,561	
			412-00800	Concrete Pavement (8 Inch)	SY	2,956			2,956	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			412-00801	Concrete Pavement (8 Inch) (Special)	SY	540			540	
			506-00209	Riprap (9 Inch)	CY	56			56	
			506-00212	Riprap (12 Inch)(Complete In Place)	CY	17			17	
			603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	LF	617			617	
			603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF	337			337	
			603-01605	60 Inch Reinforced Concrete Pipe (Complete In Place)	LF	46			46	
			603-05018	18 Inch Reinforced Concrete End Section	EACH	2			2	
			603-05060	60 Inch Reinforced Concrete End Section	EACH	1			1	
			604-00515	Inlet Type D (15 Foot)	EACH	1			1	
			604-19105	Inlet Type R L 5 (5 Foot)	EACH	2			2	
			604-19110	Inlet Type R L 5 (10 Foot)	EACH	2			2	
			604-19205	Inlet Type R L 10 (5 Foot)	EACH	1			1	
			604-19210	Inlet Type R L 10 (10 Foot)	EACH	1			1	
			604-19310	Inlet Type R L 15 (10 Foot)	EACH	4			4	
			604-196XX	Inlet (Filter System)	EACH	2			2	
			604-30010	Manhole Slab Base (10 Foot)	EACH	1			1	
			604-31015	Manhole Box Base (15 Foot)	EACH	1			1	
			607-11525	Fence (Plastic)	LF	150			150	
			608-000001	Concrete Sidewalk (8 Inch)	SY	22			22	
			608-00006	Concrete Sidewalk (6 Inch)	SY	3,681			3,681	

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**37TH STREET WIDENING PHASE 1
 SUMMARY OF APPROXIMATE
 QUANTITIES**
 Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: SAQ

Project No.
 AQC M415-021
 Drawing Number SAQ-002
 Sheet Number 16

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			608-00010	Concrete Curb Ramp	SY	439			439	
			608-01500	Aggregate Walkways (dark-grey crusher fines) (3" d.)	SY	34			34	
			609-20012	Curb Type 2 (Section M) (Special)	LF	320			320	
			609-21010	Curb and Gutter Type 2 (Section I-B)	LF	3,623			3,623	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	4,011			4,011	
			609-24008	Gutter Type 2 (8 Foot)	LF	58			58	
			610-00026	Median Cover Material (6 Inch Patterned Concrete)	SF	7,581.0			7,581	
			614-00011	Sign Panel (Class 1)	SF	363			363	
			614-00037	Sign Panel (Corten)(Special)	EACH	3			3	
			614-00041	Sign Posts and Sign Structures (Gabion Wall)(Special)	EACH	13.0			13	
			614-00214	Steel Sign Post (1.75x1.75 Inch Tubing)	LF	506			506	
			614-80321	Barricade (Type 3M-A)	EACH	3			3	
			614-80322	Barricade (Type 3M-B)	EACH	1			1	
			614-80323	Barricade (Type 3M-C)	EACH	1			1	
			619-00007	Connect to Existing Waterline	EACH	1			1	
			619-10240	24 Inch Welded Steel Casing Pipe	LF	197			197	
			619-50480	6 Inch PVC C900 DR18	LF	109			109	
			619-50962	12 Inch PVC C900 DR18	LF	657			657	
			619-50962	12 Inch FPVC C900 DR18	LF	425			425	
			619-71516	2 Inch Air and Vacuum Valve	EACH	1			1	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			619-75048	6 Inch Gate Valve	EACH	2			2	
			619-75096	12 Inch Gate Valve	EACH	5			5	
			619-78048	Fire Hydrant Assembly	EACH	2			2	
			620-00020	Sanitary Facility	EACH	1			1	
			623-09900	Irrigation System	LS	1			1	
			625-00000	Construction Surveying	LS	1			1	
			626-00000	Mobilization	LS	1			1	
			626-01104	Public Information Services (Tier IV)	LS	1			1	
			627-00008	Modified Epoxy Pavement Marking	GAL	52			52	
			627-30405	Preformed Thermoplastic Pavement Marking (Word-Symbol)	SF	565			565	
			627-30410	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line)	SF	672			672	
			629-01004	Survey Monument (Type 4)	EACH	7			7	
			629-01031	Survey Monument (Type 3A)	EACH	1			1	
			630-00000	Flagging	HOUR	800			800	
			630-00007	Traffic Control Inspection	DAY	36			36	
			630-00012	Traffic Control Management	DAY	90			90	
			630-80335	Barricade (Type 3M-A) (Temporary)	EACH	3			3	
			630-80337	Barricade (Type 3M-C) (Temporary)	EACH	4			4	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	92			92	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	7			7	

Print Date: 11/21/2022
 File Name: SAQ_P1-003.DWG
 Horiz. Scale: N/A Vert. Scale: N/A

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Sheet Revisions		
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 Void:

**37TH STREET WIDENING PHASE 1
 SUMMARY OF APPROXIMATE
 QUANTITIES**
 Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: SAQ

Project No.
 AQC M415-021
 Drawing Number SAQ-003
 Sheet Number 17

ADVERTISEMENT SET 12/1/2022

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.
			630-80350	Vertical Panel	EACH	40		40	
			630-80355	Portable Message Sign Panel	EACH	11		11	
			630-80360	Drum Channelizing Device	EACH	175		175	
			630-80380	Traffic Cone	EACH	200		200	
			700-	F/A Irrigation	F A	1		1	
			700-	F/A Detour Maintenance	F A	1		1	

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37TH STREET WIDENING PHASE 1
SUMMARY OF APPROXIMATE QUANTITIES

Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: SAQ	Subset Sheets: 4 of 4

Project No.
AQC M415-021
Drawing Number SAQ-004
Sheet Number 18

ADVERTISEMENT SET 12/1/2022

SUMMARY OF EARTHWORK QUANTITIES

EMBANKMENT MATERIAL (COMPLETE IN PLACE) (NET)	CUBIC YARDS
FOR ROADWAY	13,580
FOR MANHOLES/INLETS/PIPES	768
FOR ROAD APPROACHES	150
TOTAL	14,498 *
FOR INFORMATION ONLY	
UNCLASSIFIED EXCAVATION	CUBIC YARDS
FOR ROADWAY	7,822
FOR MANHOLES/INLETS/PIPES	512
FOR ROAD APPROACHES	35
TOTAL	8,369 *
EARTHWORK QUANTITIES BALANCE	
UNCLASSIFIED EXCAVATION	CUBIC YARDS
TOTAL UNCLASSIFIED EXCAVATION	8,369
TOTAL	8,369 *
EMBANKMENT (NET)	
TOTAL	14,498 *
TOTAL FROM CONTRACTOR'S SOURCE	6,129 *

A minimum R-value for all imported embankment will be 45.
 *Quantity unadjusted for shrinkage or swell.

TABULATION OF PAVEMENT ITEMS

STATION	HOT MIX ASPHALT PAVING		EMULSIFIED ASPHALT (SLOW-SETTING)	CONCRETE PAVEMENT (8 INCH)	CONCRETE PAVEMENT (8 INCH) (SPECIAL)	AGGREGATE BASE COURSE (CLASS 6)
	HOT MIX ASPHALT (GRADING SX) (100) (PG 64-28)	HOT MIX ASPHALT (GRADING S) (75) (PG 64-22)				
	TONS	TONS	GAL	SY	SY	CY
Approach to Project 37th Street						
1071+23.00 - 1076+60.00			170			432
1st Lift	187					
2nd Lift		187				
3rd Lift		187				
Mill and Overlay	159					
37th Street						
1076+60.00 - 1078+80.00			120			374
1st Lift	132					
2nd Lift		132				
3rd Lift		132				
Roundabout						
1078+80.00 - 1081+60.00				2,532	469	595
Arrowhead Drive						
3001+10.00 - 3002+90.00			54			174
1st Lift	60					
2nd Lift		60				
3rd Lift		60				
47th Avenue						
3005+10.00 - 3008+50.00			174			564
1st Lift	192					
2nd Lift		192				
3rd Lift		192				
37th Street						
1081+00.00 - 1098+80.00			828			2,445
1st Lift	911					
2nd Lift		911				
3rd Lift		911				
Road Approaches						
1087+00.00 Lt. & Rt.	12	24	11	38		24
1091+50.00 Rt.						50
SUBTOTAL	1,652	2,987	1,358	2,570	469	4,657
Irregularities (15%)	248	448	204	386	70	
Irregularities (10%)						466
TOTAL	1,900	3,435	1,561	2,956	540	5,123

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ADVERTISEMENT SET 12/1/2022

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Sheet Revisions																				
Date		Comments	Initials																	
File Name: TAB P1-001 TABULATION.DWG																				
Horiz. Scale: N/A Vert. Scale: N/A  12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350																				

TABULATION OF REMOVALS, RESETS, AND ADJUSTMENTS

STATION	SIDE	RESET VALVE	ADJUST MANHOLE	* REMOVAL OF ASPHALT MAT	REMOVAL OF ASPHALT MAT (PLANING)	REMOVAL OF PAVEMENT MARKING	RESET FIRE HYDRANT	REMOVAL OF HEADWALL	REMOVAL OF TREE	REMOVAL OF PIPE	REMOVAL OF DITCH LINING	REMOVAL OF SIDEWALK	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	REMARKS
		EA	EA	SY	SY	SF	EA	EA	EA	LF	LF	SY	L S	
1071+79.00 _ 1077+09.00	Lt.					525								
1071+79.00 _ 1076+63.00					1,442									
1076+63.00 _ 1096+76.00				8,848										
1079+20.00 _ 1080+60.00													1	Two Signal Poles, Traffic Signal Controller Cabinet
1080+08.62	45.42 Rt.		1											Sanitary Manhole
1080+72.02	32.97 Rt.		1											Sanitary Manhole
1087+00.53	1.58 Lt.	1												Water Valve
1087+39.82	29.96 Rt.							1						Pipes Attached Included in Work
1087+82.73	11.31 Rt.										5			5.5 SF of Irrigation Structure
1088+69.70	11.94 Rt.							1						Pipes Attached Included in Work
1090+24.00	90.00 Rt.								15					Trees in channel for pipe extension
1090+48.31	13.8 Lt.									59				18" CMP
1091+43.06 _ 1091+61.67	Lt.											14		
1094+66.81	11.54 Rt.									44				12" RCP
1094+98.06	21.78 Rt.								1					
1095+94.37	32.11 Rt.									15				12" ADS
1096+47.71	16.36 Rt.							2						Irrigation Structure
1096+59.37	07.45 Lt.	1												Water Valve
1096+59.40	03.70 Rt.						1							
1096+76.00 _ 1099+88.00						312								
TOTALS		2	2	8,848	1,442	837	1	4	16	118	5	14	1	

*Asphalt millings to Become the Property of the City of Evans, to be delivered to 1800 40th St.

TABULATION OF WATER ITEMS

STATION	SIDE	FIRE HYDRANT ASSEMBLY	CONNECT TO EXISTING WATERLINE	24 INCH WELDED STEEL CASING PIPE	6 INCH PVC C900 DR18	8 INCH PVC C900 DR18	12 INCH PVC C900 DR18	12 INCH FPVC C900 DR18	2 INCH AIR AND VACUUM VALVE	6 INCH GATE VALVE	8 INCH GATE VALVE	12 INCH GATE VALVE	REMARKS
		EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	
1076+47.88	Rt.	1			44								PVC supplied, cost of water main includes installation and incidental items only
1076+45.30	Rt.						120			1		1	PVC supplied, cost of water main includes installation and incidental items only
1077+45.01	Rt.							425	1				PVC supplied, cost of water main includes installation and incidental items only
1078+50.02	Rt.			197									
1081+69.84	Lt.						537			1		2	PVC supplied, cost of water main includes installation and incidental items only
1081+20.73	Rt.	1			65								PVC supplied, cost of water main includes installation and incidental items only
1087+00.60	Lt.		1								2	1	
1087+00.52	Rt.					62							PVC supplied, cost of water main includes installation and incidental items only
TOTALS		2	1	197	109	62	657	425	1	2	2	4	

Note: For removal of valve, reset valve, reset of fire hydrant, and adjust manhole, see Tabulation of Removals, Resets, and Adjustments.

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Horiz. Scale: N/A Vert. Scale: N/A					Revised:		Designer: T. Tuttle	Structure Numbers	Drawing Number TAB-002	
 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350					  		Detailer: G. Garramone		Sheet Number 20	
					Void:		Sheet Subset: TABS	Subset Sheets: 2 of 4		

TABULATION OF CONCRETE ITEMS

STATION	SIDE	CONCRETE SIDEWALK (6 INCH)	CONCRETE SIDEWALK (8 INCH)	CONCRETE CURB RAMP	CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB AND GUTTER TYPE 2 (SECTION II-B)	MEDIAN COVER MATERIAL (6 INCH PATTERNED CONCRETE)	CURB TYPE 2 (SECTION M) (SPECIAL)	GUTTER TYPE 2 (8 FOOT)	REMARKS
		SY	SY	SY	LF	LF	SF	LF	LF	
Approach to Project 37th St.										
1071+23.00 - 1076+60.00	Lt.									
	Rt.									
	Total									
37th St.										
1076+00.00 - 1078+80.00	Lt.	185				210				
	Rt.	210				208				
	Total				458		675			
Roundabout										
1078+80.00 - 1081+00.00	Lt.	161		162		242				
	Rt.	170		199		258				
	Total				351		1,651	320		
Arrowhead Dr.										
3001+10.00 - 3002+90.00	Lt.	158				161				
	Rt.					171				
	Total				174		248			
47th Ave.										
3005+50.00 - 3008+34.00	Lt.	328				318				
	Rt.	354				320				
	Total				670		1,171			
37th St.										
1081+00.00 - 1098+80.00	Lt.	1,046	22	32		1,080				
	Rt.	1,069				1,042				
	Total				1,970		3,836			
Road Approaches										
1087+00.00	Lt. & Rt.			46					58	
Total		3,681	22	439	3,623	4,011	7,581	320	58	

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**37TH STREET WIDENING PHASE 1
TABULATIONS**

Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: TABS	Subset Sheets: 3 of 4

Project No.
AQC M415-021
Drawing Number TAB-003
Sheet Number 21

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TABULATION OF STRUCTURE QUANTITIES

NOTE NO.	STATION AND OFFSET	*STRUCTURE EXCAVATION	**UNCLASSIFIED EXCAVATION	*STRUCTURE BACKFILL (SQUEEGEE SAND)	*STRUCTURE BACKFILL (NATIVE MATERIAL)	**EMBANKMENT (NATIVE MATERIAL)	***TOPSOIL	*BED COURSE MATERIAL	RIPRAP (9 INCH)	RIPRAP (12 INCH) (CIP)	REINFORCED CONCRETE PIPE (CIP)			REINFORCED CONCRETE END SECTION (CIP)	INLET TYPE R L 5 (5 FOOT)	INLET TYPE R L 5 (10 FOOT)	INLET TYPE R L 10 (5 FOOT)	INLET TYPE R L 10 (10 FOOT)	INLET TYPE R L 15 (10 FOOT)	INLET TYPE D (15 FOOT)	INLET (FLTER SYSTEM)	MANHOLE SLAB BASE (10 FOOT)	MANHOLE BOX BASE (15 FOOT)	MODIFY MANHOLE	REMARKS	
		CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	LF			EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		EACH
												18''	24''	60''	18''	60''										
IN H1	1076+68.30, 36.71' Lt.						4	4	11							1										Place riprap pad west of IN H1 with 6'' topsoil and 6'' bed course
P23		52.76	72.96	17.99	25.71	93.25					82															
IN H2	1076+68.34, 40.73' Rt.						4	4	11							1										Place riprap pad west of IN H2 with 6'' topsoil and 6'' bed course.
P22		149.13	81.30	50.93	72.75	135.25			2		237		1													Place riprap pad at P22 outlet.
Ex MH-1	1079+57.76, 22.20' Rt.																							1		Modify manhole to set rim at proposed grade.
P21		243.79	230.99	79.46	109.94	347.24					296															
MH-10	1082+53.63, 25.15' Rt.																					1				5' Diameter
IN 5A	1082+51.14, 47.23' Lt.																	1								
P19		48.28	44.87	16.46	23.53	35.39					74.6															
P20		12.05	0.82	4.11	5.87	7.62					16.4															
IN 5B	1082+54.13, 39.31' Rt.																1									
IN 4C	1089+71.59, 79.65' Lt.																			1						Remove approximately 3' from Ex 54'' RCP before attaching inlet.
IN 4A	1090+27.26, 36.00 Lt.																		1		1					
P27		49.34	19.49	16.82	24.04	28.27					76.3															
IN 4B	1090+27.26, 36.00' Rt.																		1		1					
P26		13.26	0.00	11.53	15.95	21.44					40.4															
MBB-1	1089+96.10, 65.76' Rt.																						1			CDOT Manhole Box Base
P28		48.92	0.00	31.51	39.68	47.76				16.7		46	1													Place riprap pad at P28 outlet. Riprap complete-in-place includes topsoil & 6'' bed course material. 60 Inch Reinforced Concrete End Section (CIP) includes cutoff wall as shown on the details.
P24		55.44	38.13	18.90	27.01	33.24			2		86.1		1													Place riprap pad at P24 outlet.
IN H3	3001+22.68, 14.77 Lt.						4	4	18					1												Place riprap pad south of IN H3 with 6'' topsoil and 6'' bed course.
P25		22.27	7.95	7.59	10.85	7.53					32.8															
IN H4	3001+22.69, 13.65' Rt.						4	4	11					1												Place riprap pad south of IN H4 with 6'' topsoil and 6'' bed course.
IN G1	3005+86.00, 38.32' Lt.																		1							
P10		9.46	15.26	3.22	4.61	11.14					12.2															
Ex MH-2	3005+86.00, 29.00' Lt.																							1		Modify manhole to set rim at proposed grade.
IN G2	3005+86.00, 30.93' Rt.																		1							Remove approximately 4' from Ex 18'' RCP before attaching inlet.
TOTALS		705	512	259	360	768	15	15	56	17	617	337	46	2	1	2	2	1	1	4	1	2	1	1	2	

* For Information Only
 ** Carried to Summary of Earthwork
 *** Carried to Tabulation of Stormwater Quantities
 # Irrigation detail

Notes: Structure excavation is from 6'' below the pipe to 1 foot above the pipe.
 Unclassified excavation is from 1 foot above the pipe to existing ground.
 Structure Backfill (Native Material) is material from half of the pipe to 1 foot above the pipe.
 Structure Backfill (Squeegie Sand) is material from 6'' below the pipe to half of the pipe.
 Embankment is material from 1 foot above the pipe to the proposed ground.

Print Date: 11/21/2022
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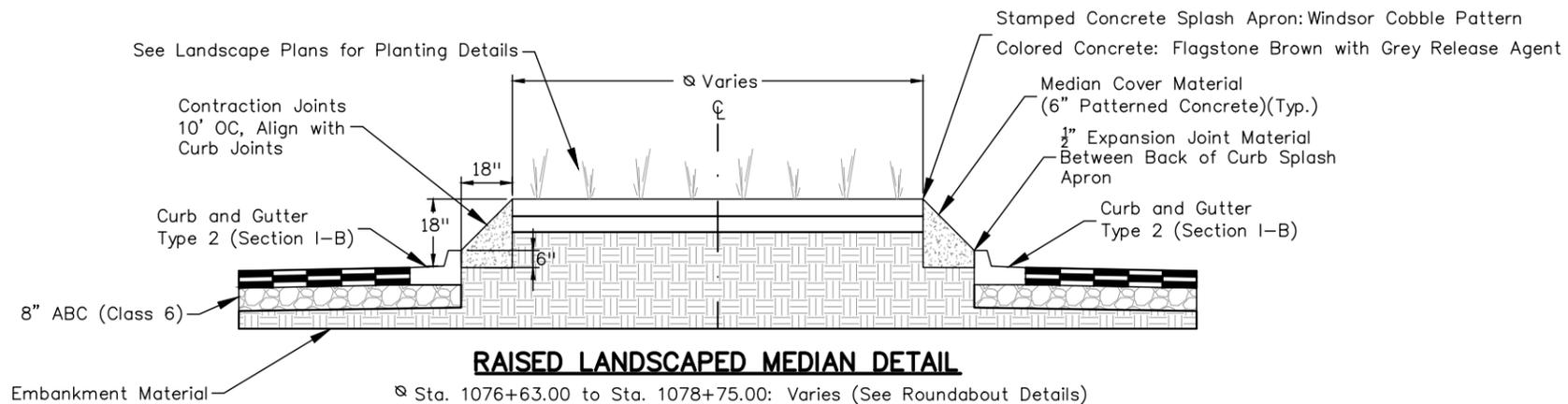
 12076 Grant Street
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Sheet Revisions		
Date	Comments	Initials



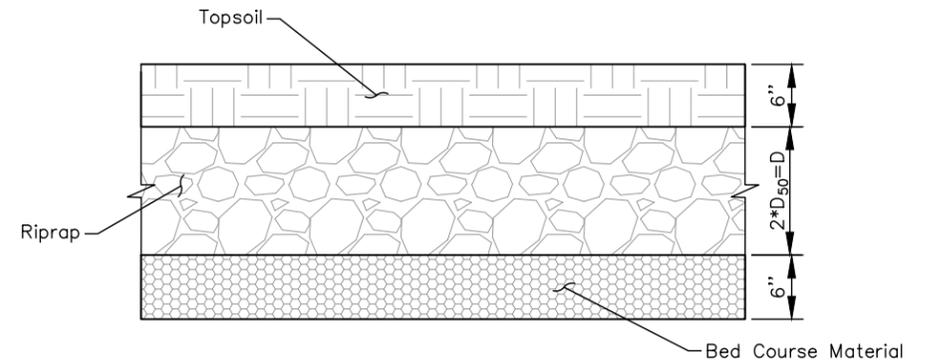
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			Drawing Number TAB-004	
	Designer: T. Tuttle Detailer: J. Jensen	Structure Numbers	Sheet Subset: TABS Subset Sheets: 4 of 4	

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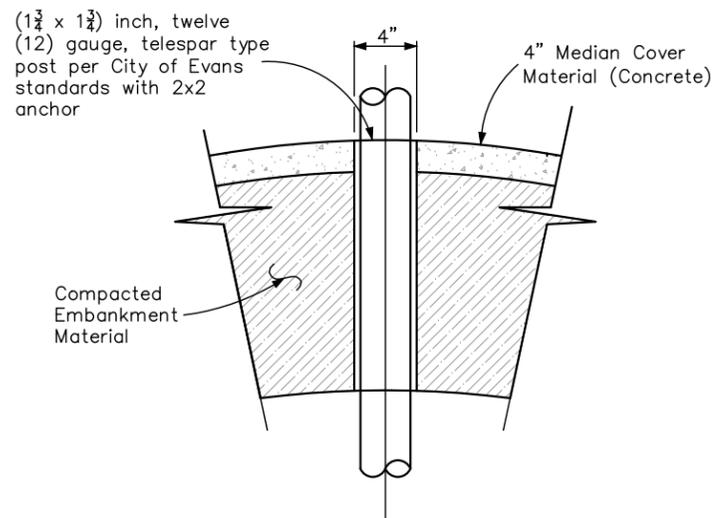
RAISED LANDSCAPED MEDIAN DETAIL

- Sta. 1076+63.00 to Sta. 1078+75.00: Varies (See Roundabout Details)
- Sta. 1081+03.00 to Sta. 1084+74.00: Varies (See Roundabout Details)
- Sta. 1084+74.00 to Sta. 1086+86.00: 14'
- Sta. 1086+86.00 to Sta. 1087+68.00: Varies 14'-9'
- Sta. 3002+16.00 to Sta. 3002+86.00: Varies (See Roundabout Details)
- Sta. 3005+79.00 to Sta. 3007+75.00: Varies (See Roundabout Details)
- Sta. 3007+75.00 to Sta. 3008+43.00: 12'



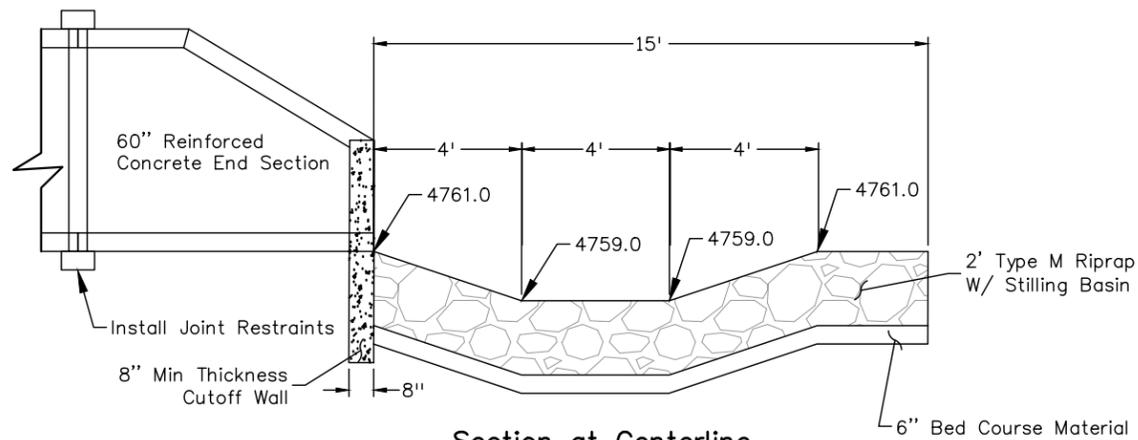
RIPRAP PAD DETAIL

- Sta 3000+91 Lt.
- Sta 3001+20 Rt. & Lt.
- Sta 1076+50 Rt. & Lt.
- Sta 1077+68 Rt.

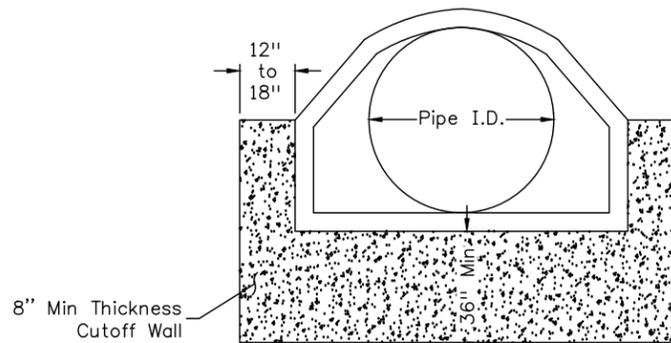


SLEEVE FOR DESIGN POST OR DELINEATOR POST IN CONCRETE DETAIL

Cost of sleeve will not be paid for separately, but will be included in the cost of Median Cover Material (Concrete). Location of posts are as shown on tabulation of signs and delineator tabulation.



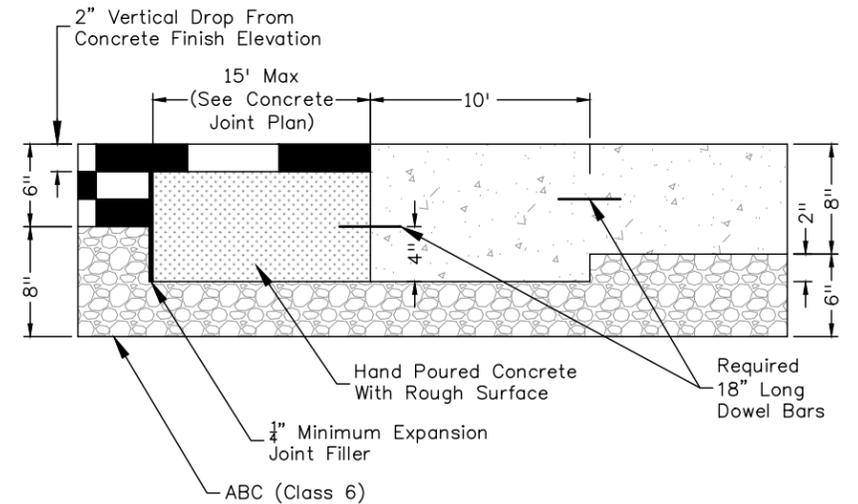
Section at Centerline



End View

60" REINFORCED CONCRETE END SECTION DETAIL

Sta 1090+06 Rt.



ASPHALT TO CONCRETE TRANSITION DETAIL

Note: Refer to CDOT Standard M-412-1 for dowel size and spacing.

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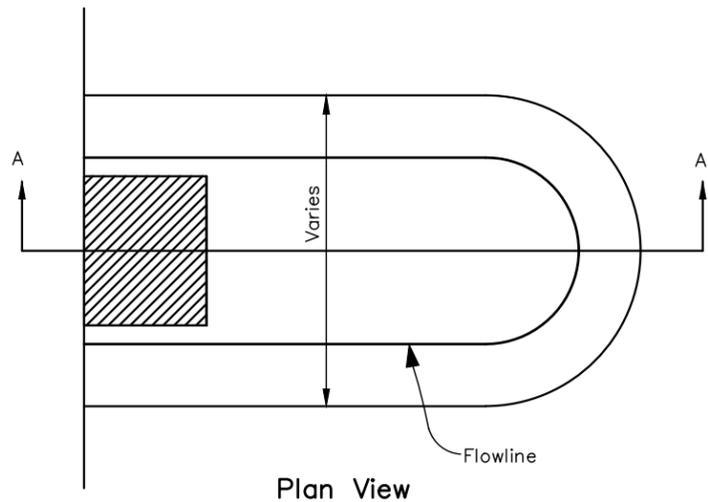


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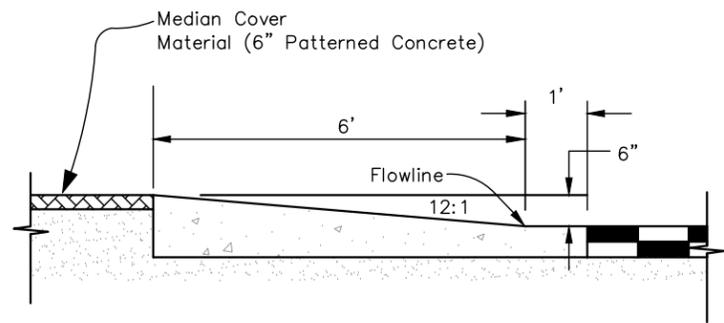
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Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: DETAILS	Subset Sheets: 1 of 12

Project No.
AQC M415-021
Drawing Number DT-001
Sheet Number 23

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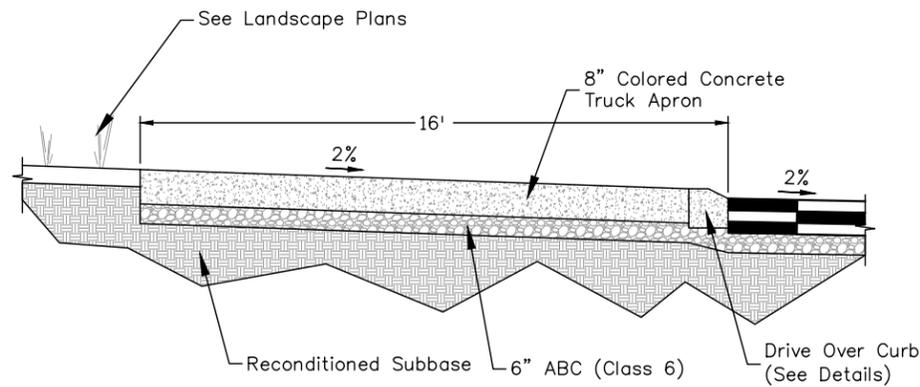


Plan View

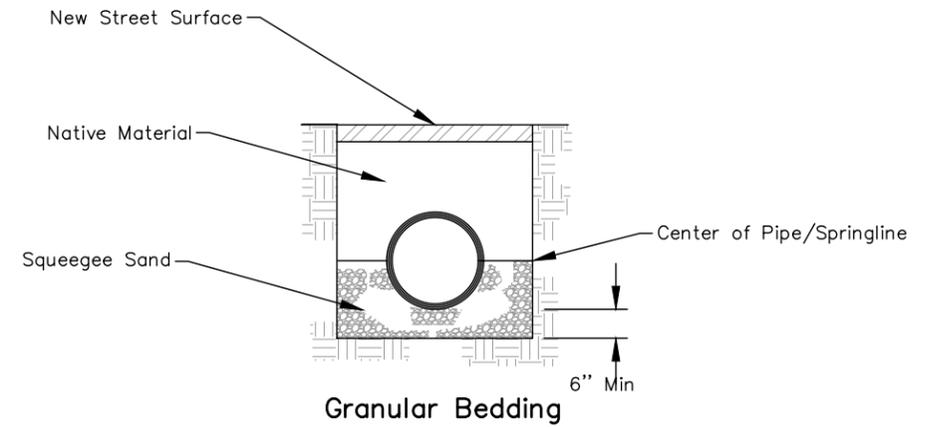


Section A-A
MEDIAN ISLAND NOSE DETAIL

Median nose detail will be included in the cost of curb and gutter.



TRUCK APRON DETAIL



NOTES:

1. Native material as backfill up to grade compacted to 95% ± 2%.
2. Squeegee from 6" below the pipe and up to the springline of the pipe.
3. Squeegee sand is defined as material in which 100% passes through a 3/8" sieve and only 0% to 5% passes through a #200 sieve.
4. All trenching shall meet OSHA requirements, including trench boxes and/or shoring when appropriate.
5. An over-excavated trench shall be refilled and thoroughly compacted under the direction of the public works department.
6. Under no circumstances will pipe be laid in a proposed fill area prior to it being completely filled. The fill will be placed first to proposed grade and compacted as required. A trench then will be excavated and the pipe installed per City of Evans Standards.

STORM SEWER BACKFILL DETAIL
NTS

Plot Date: 11/21/2022 9:06 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: DT P1-001 DETAILS.DWG	
Horiz. Scale: NTS	Vert. Scale: NTS
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Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 DETAILS		
Designer: T. Tuttle	Structure Numbers	Drawing Number DT-002
Detailer: S. Hemler		
Sheet Subset: DETAILS	Subset Sheets: 2 of 12	

Project No.
AQC M415-021
Sheet Number 24

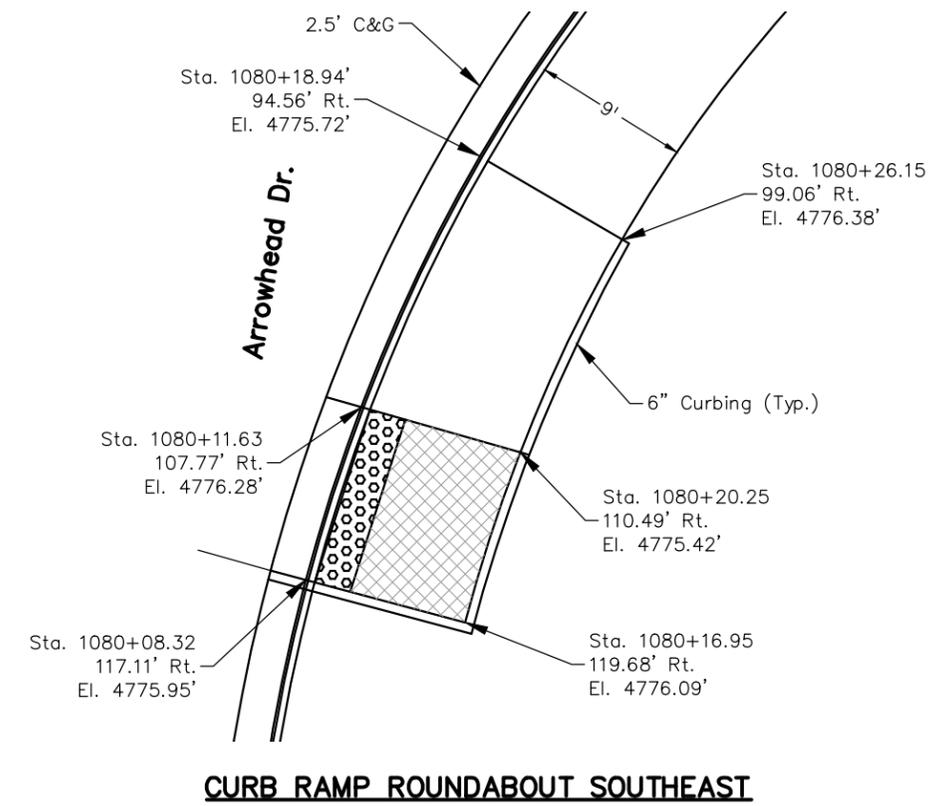
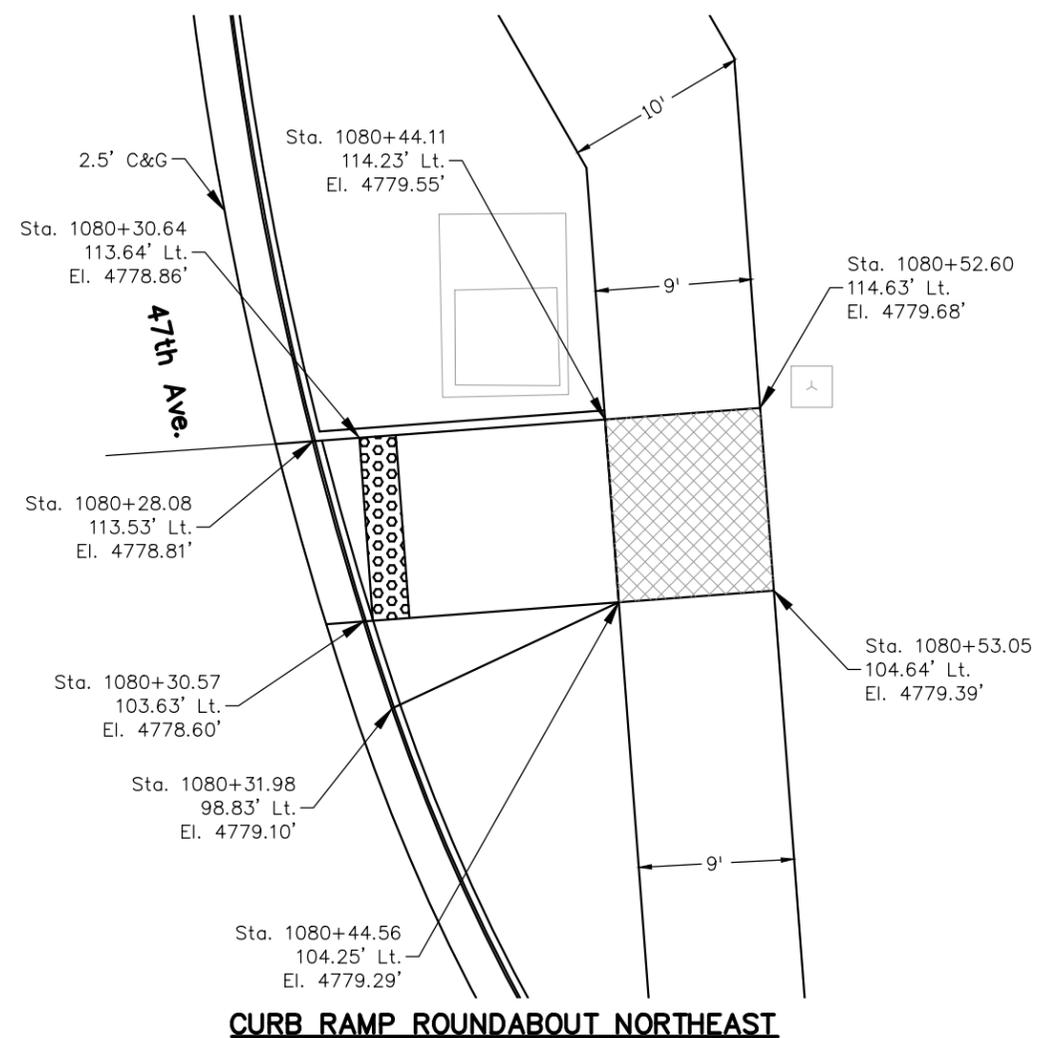
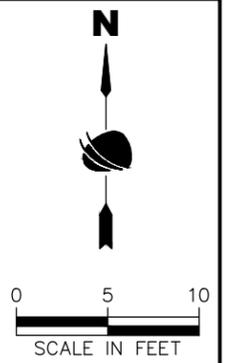
ADVERTISEMENT SET 12/1/2022

LEGEND

 Turning Space

NOTES:

1. If any field adjustments for ADA Ramps are required, ramp design must adhere to the latest CDOT M-608-1 standard.
2. Detectable warnings shall be cast iron.
3. All callouts are to the FL of the curb.



Plot Date: 11/21/2022 12:04 PM Plotted By: Sarah Hemler
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Date	Comments	Initials



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Revised:
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37TH STREET WIDENING PHASE 1 DETAILS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	K. Schultz	
Sheet Subset:	DETAILS	Subset Sheets: 3 of 12

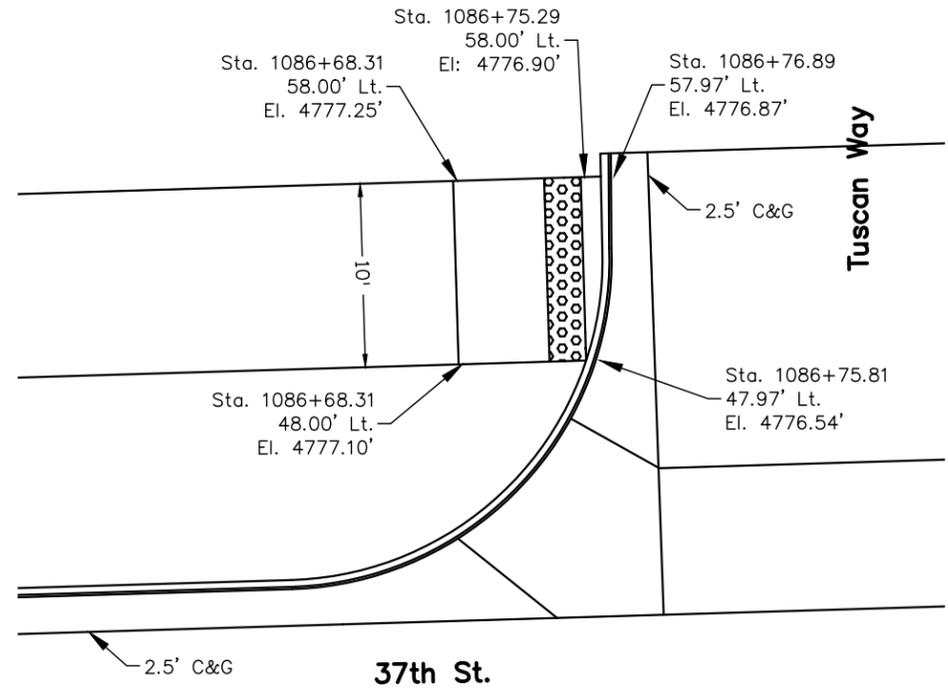
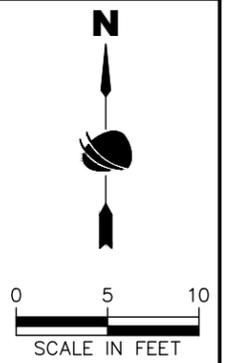
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AQC M415-021
Drawing Number DT-003
Sheet Number 25

LEGEND

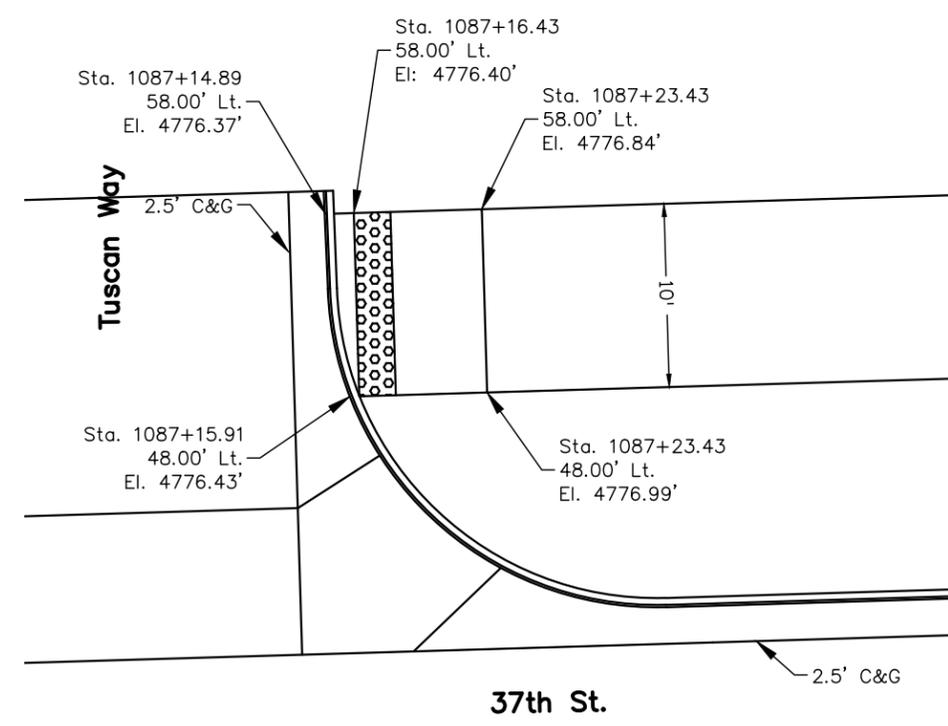
 Turning Space

NOTES:

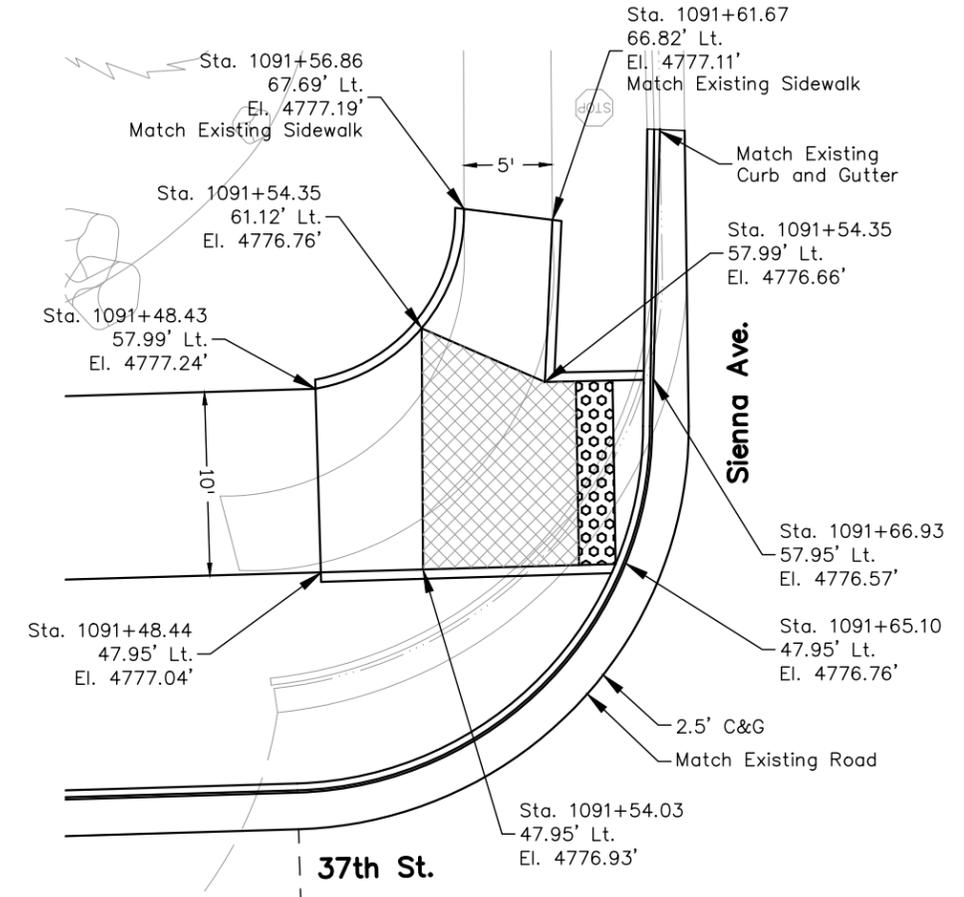
1. If any field adjustments for ADA Ramps are required, ramp design must adhere to the latest CDOT M-608-1 standard.
2. Detectable warnings shall be cast iron.
3. All callouts are to the FL of the curb.



CURB RAMP TUSCAN WAY WEST



CURB RAMP TUSCAN WAY EAST



CURB RAMP SIENNA AVENUE



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Date	Comments	Initials

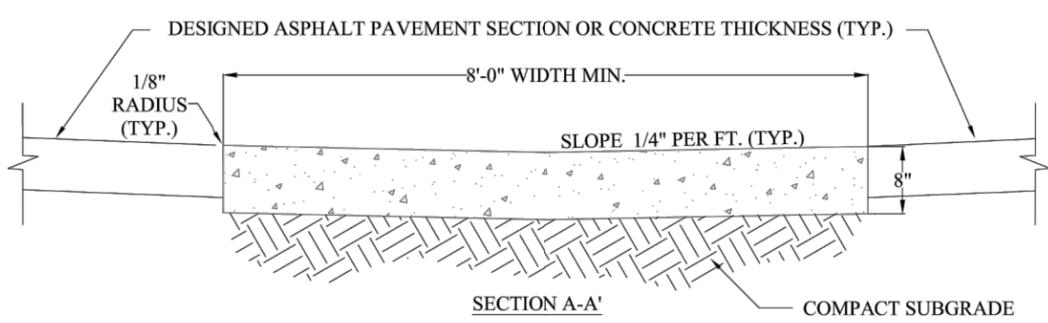
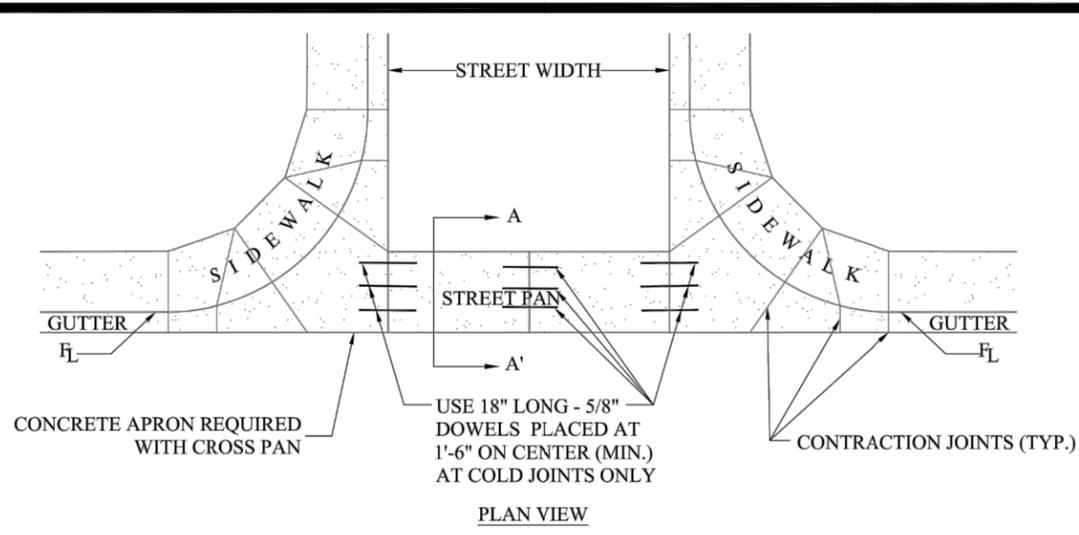


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Designer:	T. Tuttle	Structure Numbers
Detailer:	K. Schultz	
Sheet Subset:	DETAILS	Subset Sheets: 4 of 12

Project No.
AQC M415-021
Drawing Number DT-004
Sheet Number 26

ADVERTISEMENT SET 12/1/2022

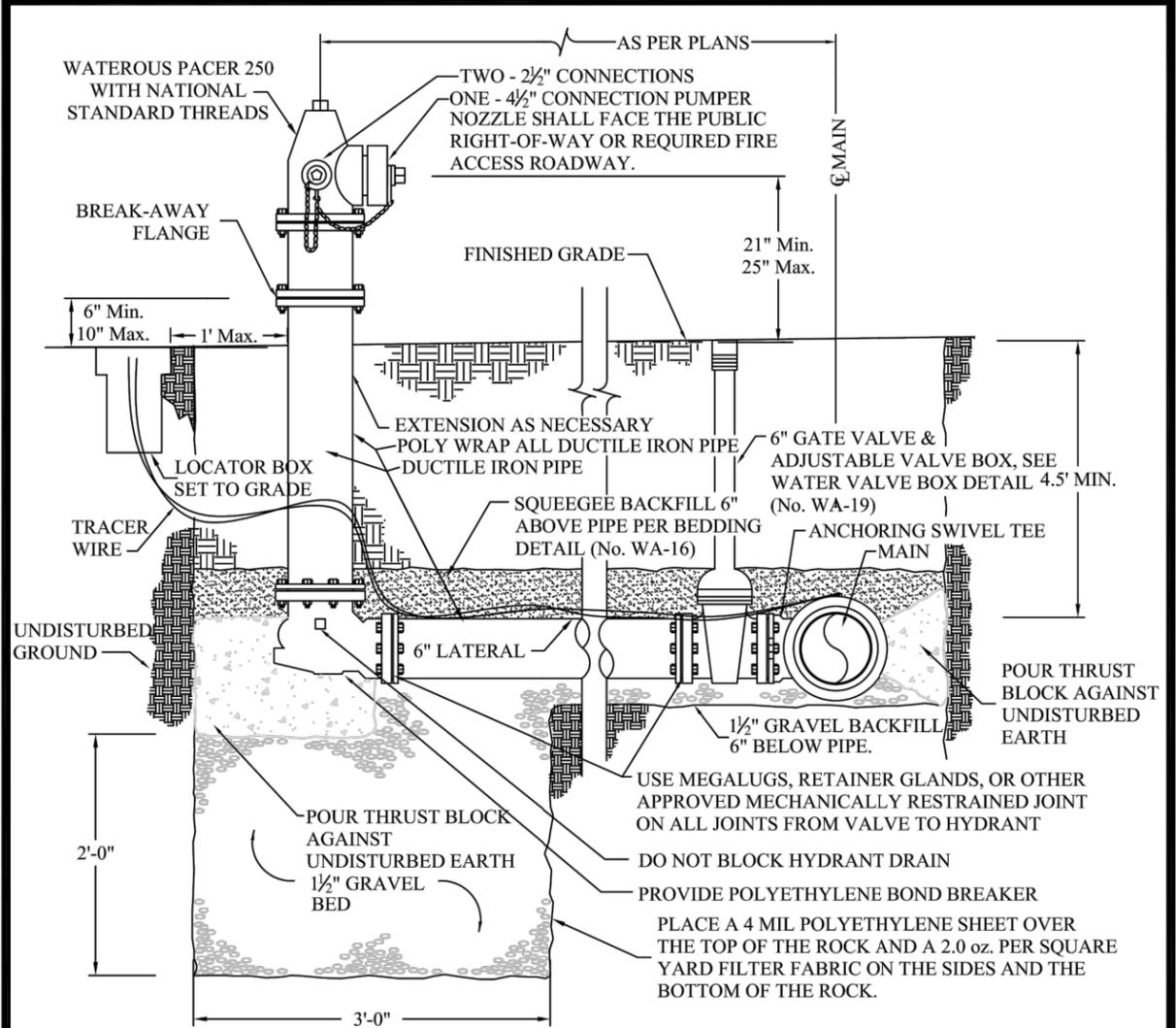


- NOTES:
1. MINIMUM OF 0.6% LONGITUDINAL SLOPE FOR CROSS PANS.
 2. MAXIMUM SPACING OF CONTRACTION JOINTS IS 10'.
 3. CONCRETE APRON SHALL BE POURED MONOLITHICALLY WITH CURB/WALK AND SHALL BE 8" THICK (SEE DETAILS No. S-11 THROUGH S-14).
 4. CROSS PAN AND APRON MAY BE POURED MONOLITHICALLY.
 5. SEE THE SPECIFICATIONS FOR STREET DESIGN AND CONSTRUCTION FOR PERMISSIBLE LOCATIONS OF CROSS PANS.
 6. MID-BLOCK CROSS PANS SHALL BE A MINIMUM OF 10' WIDE.
 7. LARGER CROSS PAN WIDTH MAY BE REQUIRED BY THE CITY.
 8. DOWELING MAY BE REQUIRED AT COLD JOINTS AT THE CITY'S DIRECTION.
 9. CONCRETE SHALL BE 4500 PSI.

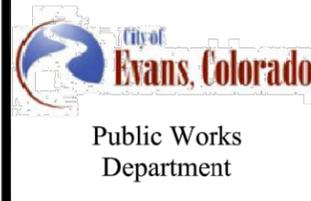


CROSS PAN DETAIL

Scale: N.T.S. Detail No. S-5 May 2019



- NOTES:
1. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS
 2. STANDARD COLOR WILL BE DES MOINES SAFETY YELLOW PRODUCT #6162
 3. HEIGHT TO CENTER OF STEAMER - 21" MIN. to 25" MAX
 4. PROVIDE 5' RADIUS CLEAR ZONE AROUND ALL HYDRANTS
 5. DO NOT PLACE ANY HYDRANTS AT THE END OF CUL-DE-SACS
 6. 4.5' MIN. DEPTH OF COVER FROM FINISHED GRADE TO TOP OF PIPE
 7. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE MECHANICALLY RESTRAINED
 8. ALL PIPE AND FITTINGS FROM MAIN TO FIRE HYDRANT SHALL BE PVC PIPE
 9. TRACER WIRE TO TERMINATE @ LOCATOR BOX LOCATED AT REAR OF HYDRANT
 10. LOCATOR BOX TO BE SETBACK A MAX. OF 1' FROM THE REAR OF THE HYDRANT
 11. ENSURE THAT THRUST BLOCK DOES NOT BLOCK WEEP HOLE FOR DRAINAGE
 12. SEE THRUST BLOCK DETAIL (No. WA-14)



FIRE HYDRANT DETAIL
WATEROUS PACER 250
WITH NATIONAL STANDARD THREADS

Scale: N.T.S. WA-6 May 2019

Plot Date: 11/21/2022 9:06 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022
 File Name: DT P1-001 DETAILS.DWG
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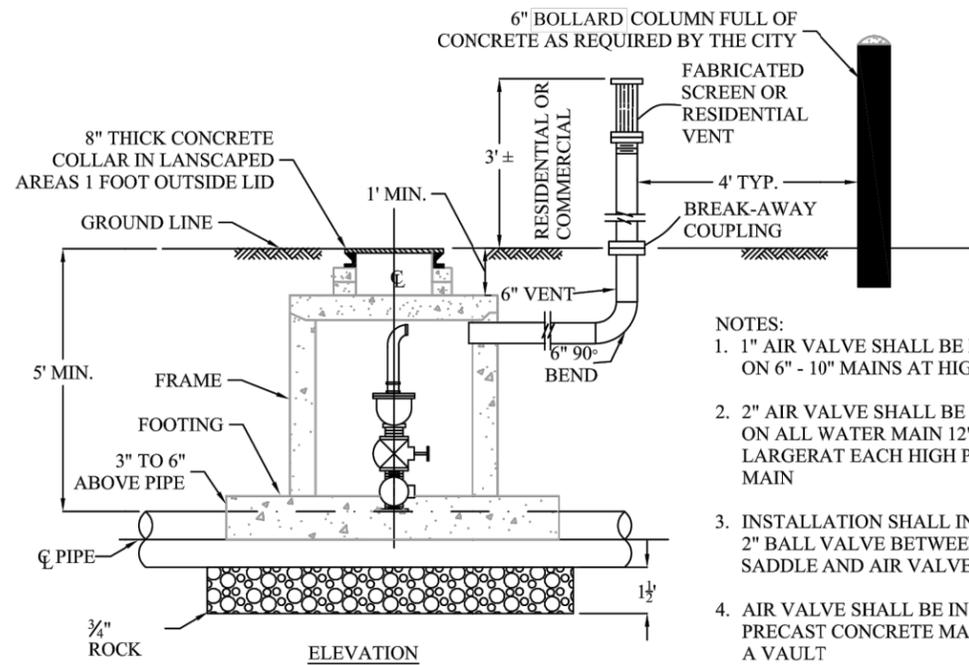


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No Revisions:
Revised:
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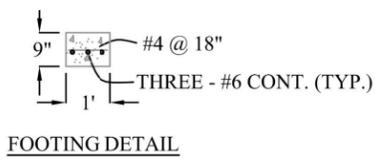
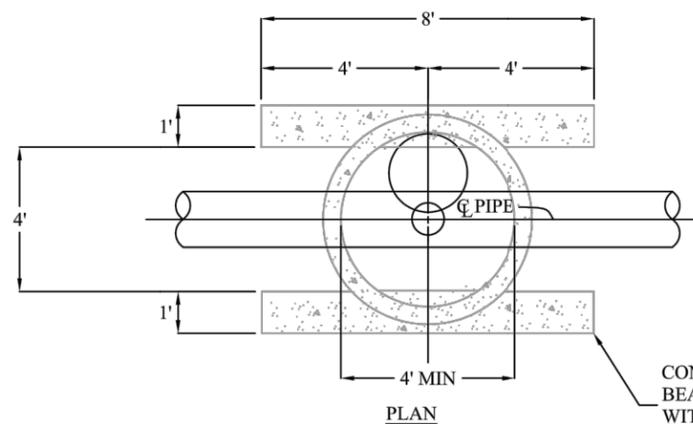
37TH STREET WIDENING PHASE 1 DETAILS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	DETAILS	Subset Sheets: 5 of 12

Project No.
AQC M415-021
Drawing Number DT-005
Sheet Number 27

ADVERTISEMENT SET 12/1/2022



- NOTES:
1. 1" AIR VALVE SHALL BE INSTALLED ON 6" - 10" MAINS AT HIGH POINTS
 2. 2" AIR VALVE SHALL BE INSTALLED ON ALL WATER MAIN 12" AND LARGER AT EACH HIGH POINT ON THE MAIN
 3. INSTALLATION SHALL INCLUDE 1" OR 2" BALL VALVE BETWEEN THE SADDLE AND AIR VALVE
 4. AIR VALVE SHALL BE INSTALLED IN PRECAST CONCRETE MANHOLE OR A VAULT
 5. VENT AND BOLLARD ABOVE GRADE SHALL BE PAINTED SAFETY YELLOW



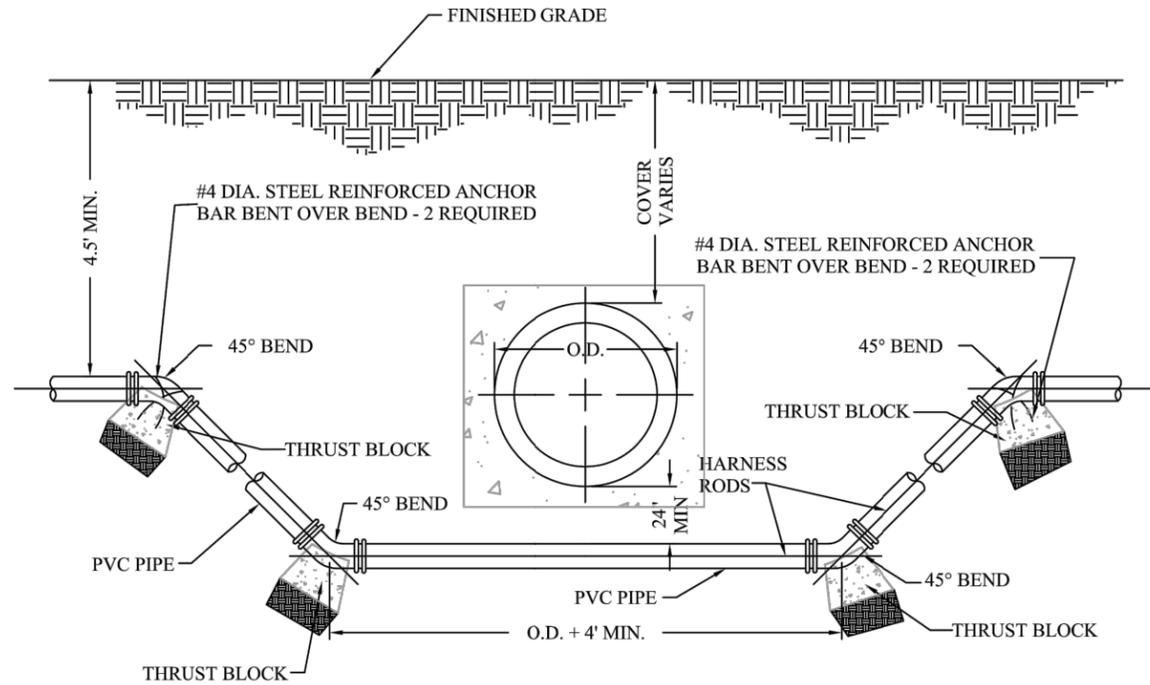
CONCRETE MANHOLE BASE BEAMS 9"x 1'-0"x 8'-0" REINF. WITH BAR STEEL AS SHOWN IN THE FOOTING DETAIL



Public Works Department

AIR & VACUUM RELIEF VALVE DETAIL

Scale: N.T.S. WA-1 May 2019



NOTES:

1. THE WATER LINE SHALL BE INSTALLED BELOW ANY SEWER UNDERDRAINS
2. LENGTH OF EXTENSION OF PIPE AND HARNESS RODS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS. MEGA-LUG RESTRAINTS MAY BE USED FOR JOINT RESTRAINT IN PLACE OF HARNESS RODS
3. CATHODIC PROTECTION SHALL BE AS REQUIRED IN ACCORDANCE WITH THESE ENGINEERING STANDARDS
4. A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER. TUNNELING UNDER EXISTING CURB GUTTER, SIDEWALK OR CROSS PANS WILL NOT BE ALLOWED
5. INSTALL THRUST BLOCKING AS PER THRUST BLOCK DETAIL (No. WA-14)



Public Works Department

CONDUIT & SEWER CROSSING DETAIL

Scale: N.T.S. WA-4 May 2019

Plot Date: 11/21/2022 9:06 AM Plotted By: Sarah Hemler C:\PROJ\37TH STREET WIDENING\PROJECTS\37TH ST AND 47TH AVE\PLAN\01-COMPUTER DESIGN FILES\PI\001-SHEET FILES\ROUNDABOUT\DT P1-001-DETAILS.DWG

Print Date: 11/21/2022
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37TH STREET WIDENING PHASE 1 DETAILS

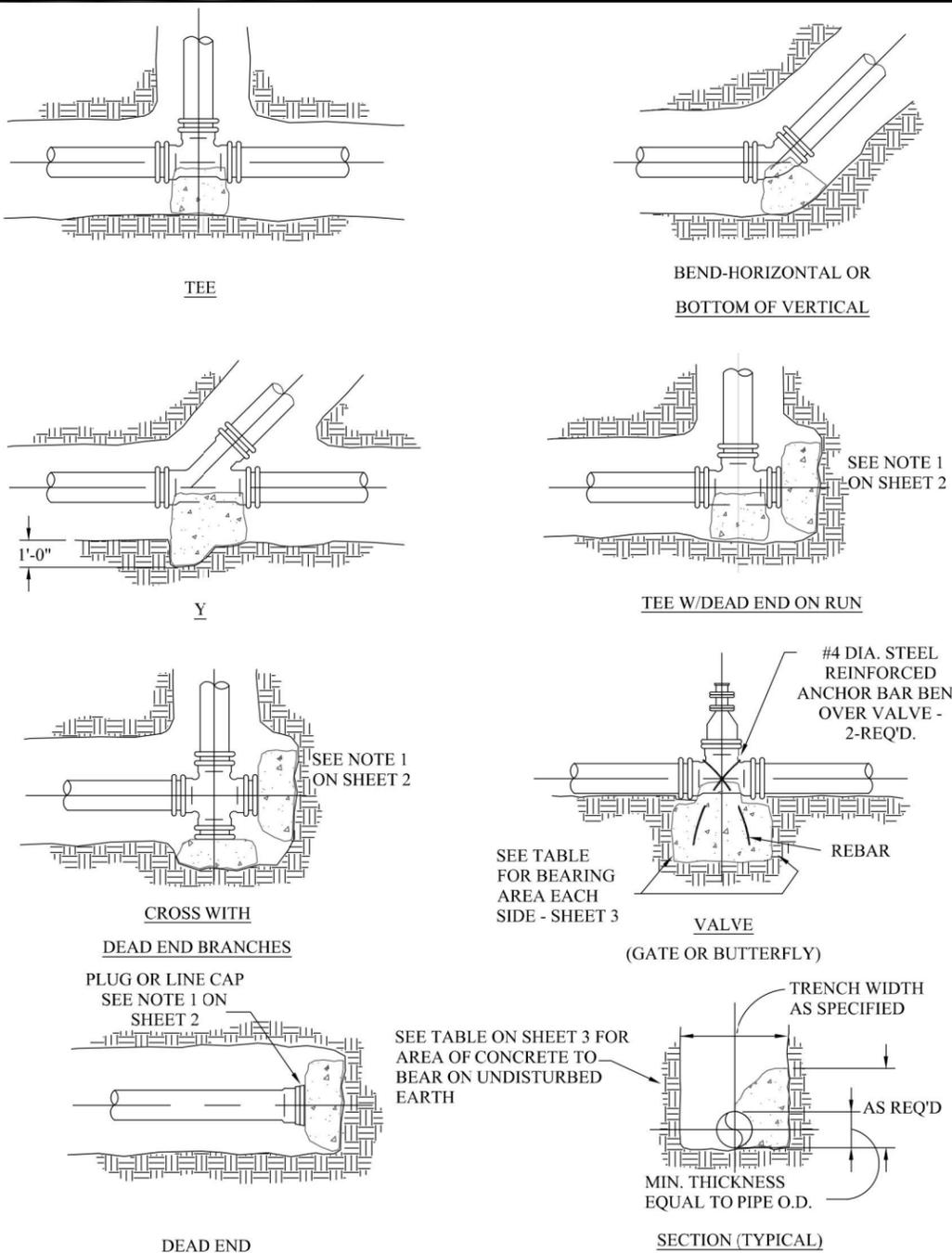
Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	DETAILS	Subset Sheets:	6 of 12

Project No. AQC M415-021

Drawing Number DT-006

Sheet Number 28

ADVERTISEMENT SET 12/1/2022



City of Evans, Colorado
Public Works Department

THRUST BLOCK DETAIL
SHEET 1 OF 3

Scale: N.T.S. WA-14A May 2019

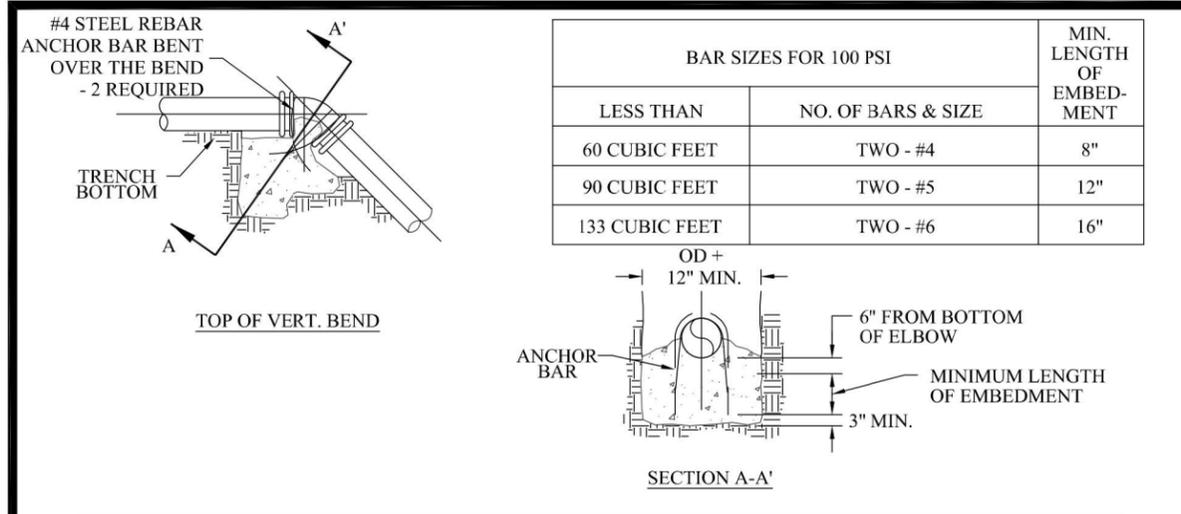


TABLE OF VOLUMES OF CONCRETE (IN CU. FT.)

REQ'D FOR VERT. BEND ANCHOR BLOCKS FOR 100 P.S.I. PRESSURE
ADJUST VOLUMES BY MULTIPLYING TABULATED VALUES BY A CORRECTION FACTOR "F".

F= ACTUAL SPECIFIED TEST PRESSURE / 100

PIPE SIZE (INCHES)	BENDS		
	45°	22 1/2°	11 1/4°
3	3.7	1.9	1.4
4	6.5	3.3	1.7
6	14.6	7.5	3.7
8	26.0	13.2	6.6
10	40.5	20.7	10.3
12	58.5	30.0	14.8
14	79.5	40.7	20.2
15	91.0	46.6	23.2
16	104.0	53.0	26.5
18	SPECIAL DESIGN REQ'D.	67.3	33.4
20		83.0	41.0
21	SPECIAL DESIGN REQ'D.	AS REQ'D.	45.5
22			50.0
24			59.5
30	SPECIAL DESIGN REQ'D.	AS REQ'D.	AS REQ'D.
36			

NOTES FOR DRAWINGS:

- AT DEAD ENDS, WRAP FITTINGS WITH TAR PAPER, FELT, OR HEAVY KRAFT PAPER TO PROVIDE BOND BREAK BETWEEN CONCRETE AND FITTINGS
- ALL THRUST BLOCKING SHALL BE CAST-IN-PLACE CONCRETE HAVING A MINIMUM YIELD STRENGTH OF 3000 P.S.I. NO HAND MIXING OF CONCRETE ALLOWED
- THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED EARTH. FORMS SHALL BE USED AS REQUIRED TO OBTAIN ADEQUATE BEARING AREA AND TO CONFINE THE CONCRETE. THRUST BLOCKING SHALL BEAR ON THE FITTING OR END CAP ONLY AND SHOULD NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE
- MEGA-LUGS OR OTHER JOINT RESTRAINT MAY BE USED ALONG WITH OR IN PLACE OF CONCRETE THRUST BLOCKS WITH DESIGN SUBMITTED BY PROFESSIONAL ENGINEER AND APPROVED BY PUBLIC WORKS DEPARTMENT
- PIPE INSTALLED UNDER CONDITIONS DIFFERENT FROM THOSE NORMALLY ENCOUNTERED SHALL REQUIRE THRUST BLOCKS DESIGNED FOR THOSE PARTICULAR CONDITIONS

City of Evans, Colorado
Public Works Department

THRUST BLOCK DETAIL
SHEET 2 OF 3

Scale: N.T.S. WA-14B May 2019

Plot Date: 11/21/2022 9:06 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

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Date		Comments	Initials													
File Name: DT P1-001 DETAILS.DWG Horiz. Scale: NTS Vert. Scale: NTS RockSol Consulting Group, Inc. 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350		Drawing Number DT-007 Sheet Number 29														

TABLE OF BEARING AREAS IN SQ. FT. FOR CONCRETE
THRUST BLOCKING

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1000 LBS. PER SQ. FT. SOIL BEARING CAPACITY

PIPE SIZE (INCHES)	BENDS				TEES*	GATE VALVES	DEADENDS AND CROSSES WITH ONE OR TWO BRANCHES PLUGGED
	90°	45°	22 1/2°	11 1/4°			
3	1.0	0.6	0.3	0	0.7	0.5	0.7
4	1.8	1.0	0.5	0	1.3	0.5	1.3
6	4.0	2.2	1.1	0	2.8	0.7	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4
15	25.0	13.5	7.0	3.5	17.6		17.6
16	28.4	15.3	8.0	4.0	20.0		20.0
18			10.0	5.0	25.4		25.4
20			12.2	6.1	31.4		31.4
21				6.8	34.6		34.6
22				7.4	38.0		38.0
24				8.8	45.0		45.0
30							71.0
36							102.0

* PIPE SIZES ARE THE SIZE OF THE BRANCH SIZE

BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F"

$$F = \frac{\text{ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS./SQ. IN.}}{\text{ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.}}$$

EXAMPLE:

- TO FIND BEARING AREA FOR 8"-90° BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I. AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.

$$- F = \frac{1.5}{3} = 0.5$$

- TABULATED VALUE = 7.1 SQ. FT.

$$- 0.5 * 7.1 = 3.56 \text{ OR } - 4 \text{ SQ. FT. OR } 2 \text{ FT. LONG BY } 2 \text{ FT. HIGH}$$

IN THE ABSENCE OF SOIL BEARING CAPACITY INFORMATION, USE ABOVE TABLE



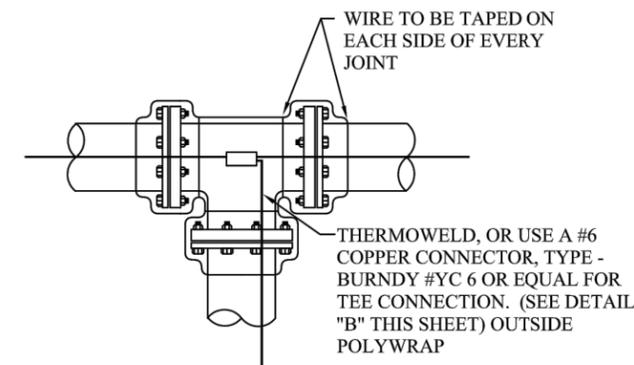
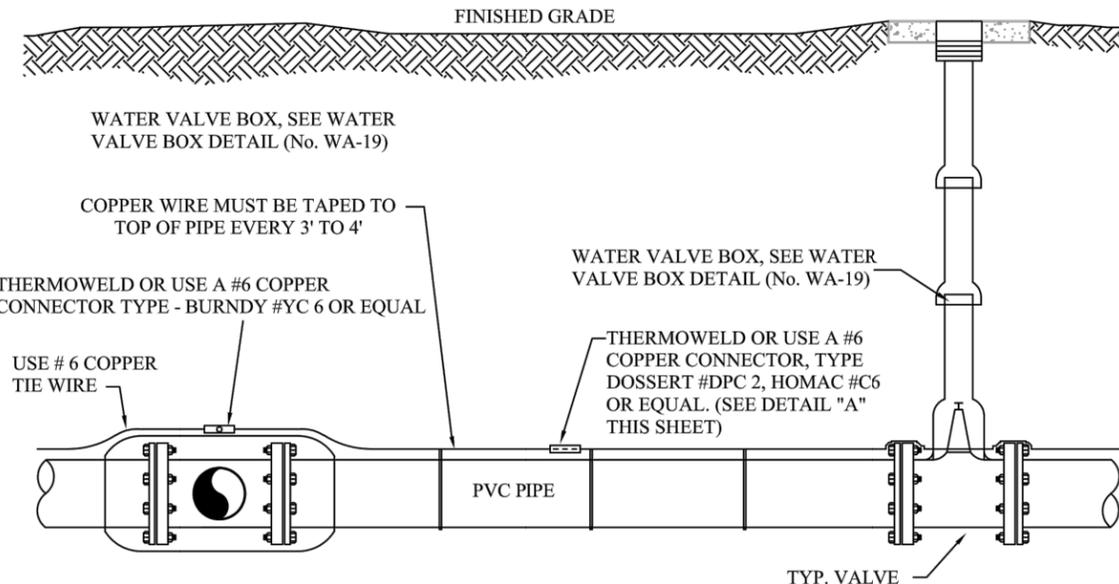
Public Works
Department

THRUST BLOCK DETAIL
SHEET 3 OF 3

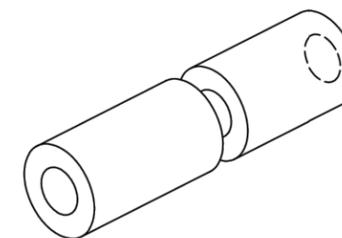
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WA-14C

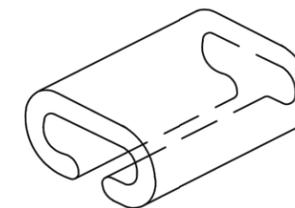
May 2019



- NOTE:
1. STRIP WIRE CASING TO EXPOSE WIRE FOR PROPER CONDUCTION
 2. 12 GAUGE SOLID OR STRANDED WITH 3M DBY CONNECTORS
 3. DAYLIGHT TRACER WIRE IN TEST BOXES BEHIND NEAREST FIRE HYDRANT (SEE DETAIL WA-6)



DETAIL "A"



DETAIL "B"



Public Works
Department

COPPER TRACER
WIRE DETAIL
ON PVC PIPE

Scale: N.T.S.

WA-5

May 2019

Print Date: 11/21/2022

File Name: DT P1-001 DETAILS.DWG

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37TH STREET WIDENING PHASE 1
DETAILS

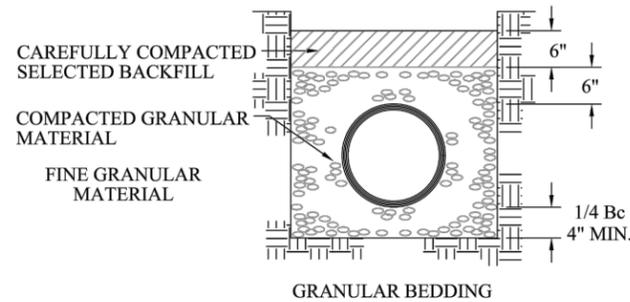
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Detailer:	J. Jensen	Structure Numbers	
Sheet Subset:	DETAILS	Subset Sheets:	8 of 12

Project No.

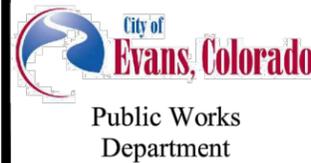
AQC M415-021

Drawing Number DT-008

Sheet Number 30

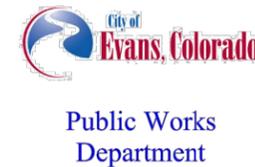
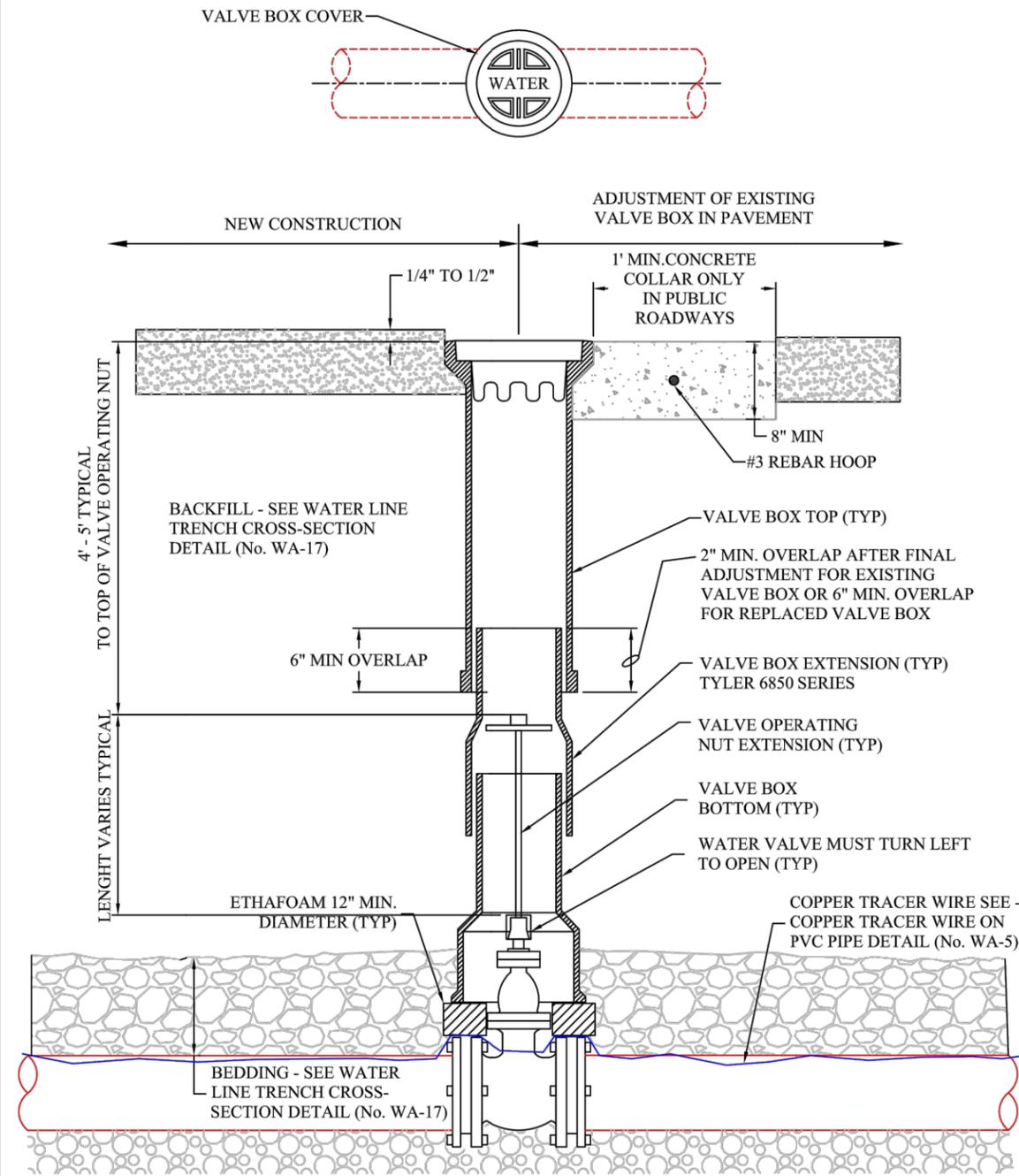


- NOTES:
1. MINIMUM DENSITY FOR CAREFULLY COMPACTED SELECT BACKFILL SHALL BE 95% OF MAXIMUM OR AS SPECIFIED FOR THE TRENCH BACKFILL - WHICHEVER IS GREATER
 2. COMPACT GRANULAR MATERIAL BY SLICING WITH A SHOVEL AROUND PIPE. WHEN BEDDING IS 6" OVER PIPE, COMPACT WITH VIBRATING COMPACTOR



**WATER LINE
BEDDING DETAIL**

Scale: N.T.S. WA-16 May 2019



**WATER VALVE
BOX DETAIL**

Scale: N.T.S. WA-19 August 2019

Print Date: 11/21/2022

File Name: DT P1-001 DETAILS.DWG

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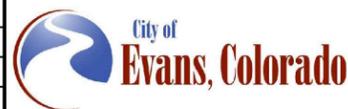


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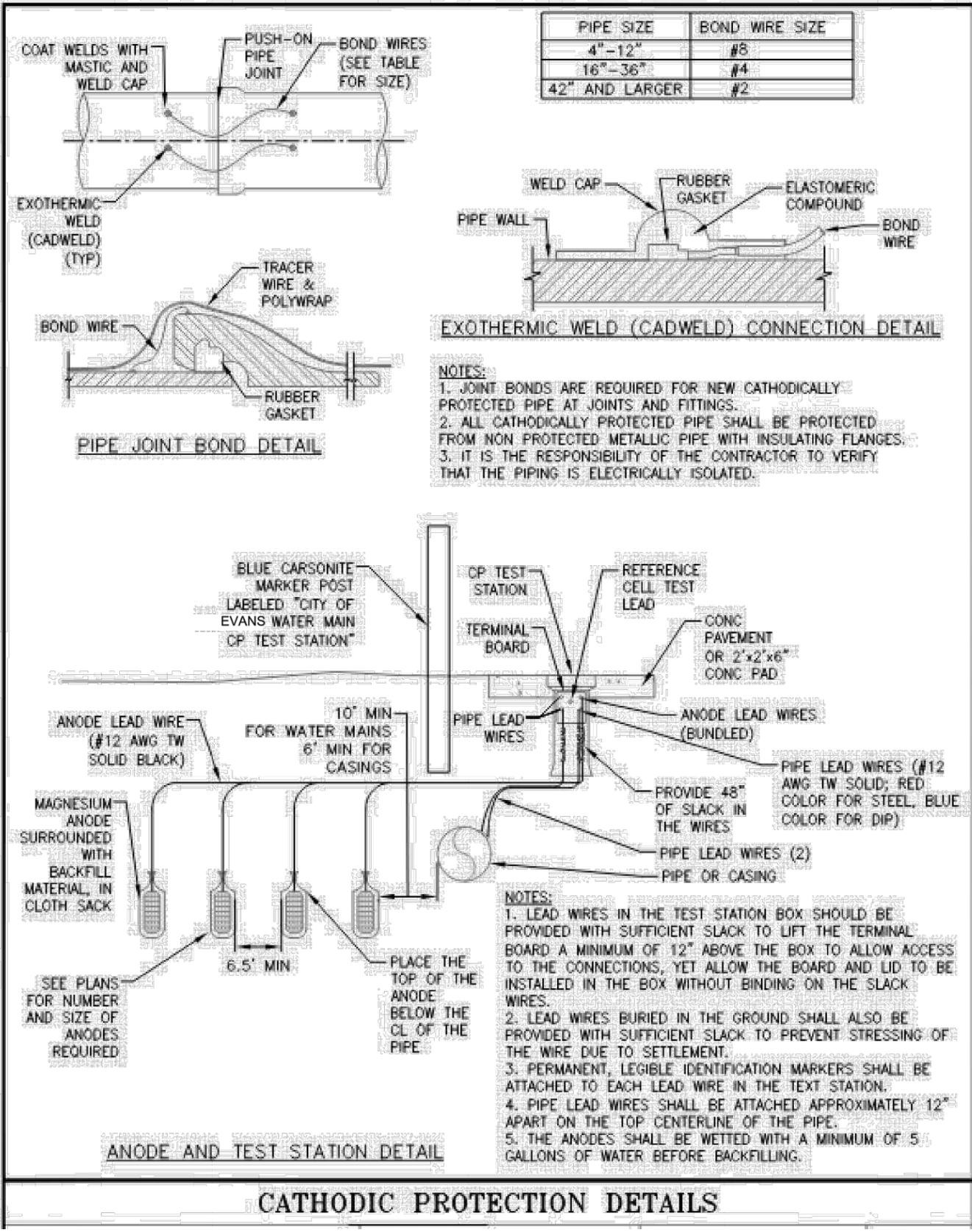
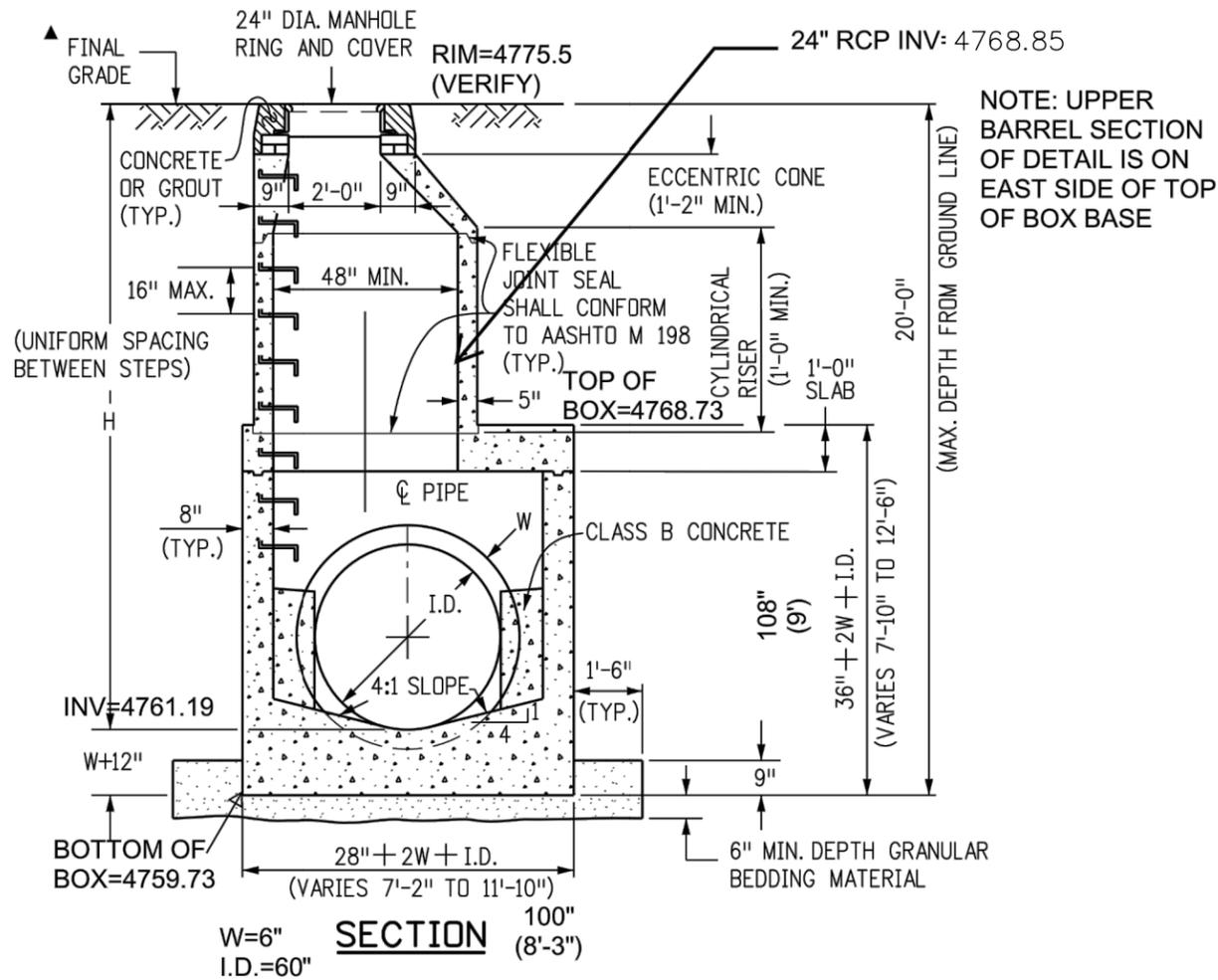
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DETAILS**

Designer:	T. Tuttle	Structure Numbers	
Detailer:	J. Jensen		
Sheet Subset:	DETAILS	Subset Sheets:	9 of 12

Project No.

AQC M415-021
Drawing Number DT-009
Sheet Number 31

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37TH STREET WIDENING PHASE 1 DETAILS	
Designer: T. Tuttle	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: DETAILS	Subset Sheets: 10 of 12

Project No.
AQC M415-021
Drawing Number DT-010
Sheet Number 32

ADVERTISEMENT SET 12/1/2022

STEEL CASING PIPE

Casing Seals

Advance Products & Systems, Inc	Model AC or Innerlynx
Cascade Waterworks Mfg	CCES
Canusa	Seal Kit CSK
CCI	ESC, ESW
Pipeline Seal and Insulator, Inc	Model C, W, S & Link-Seal

Casing Spacers

<i>Restrained Spacers</i>	
Cascade Waterworks Manufacturing	Model CCS-JR
Ford Meter Box Co.	Uni-Flange

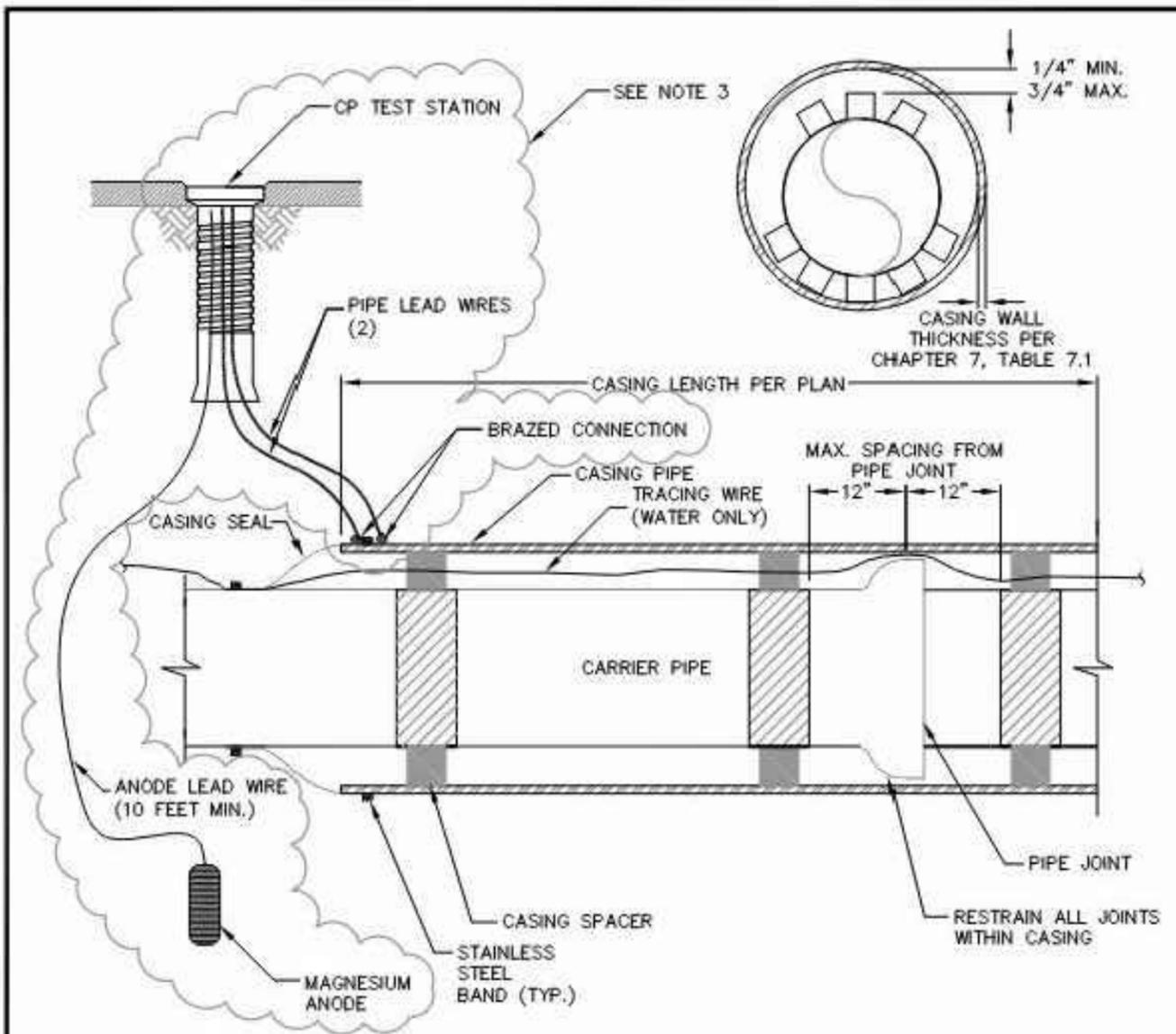
<i>Standard Spacers</i>	
Advance Products & Systems, Inc.	Model SS1
Cascade Waterworks Manufacturing	Model CCS
CCI	Model CSS
Pipeline Seal and Insulator, Inc.	Model S

Test Stations

<i>for cathodic protection</i>	Brooks Products	1-RT
	Farwest Corrosion	1-RT

Table 7.1-Casing pipe minimum wall thickness

Nominal Diameter (inches)	Minimum Thickness (non-coated) (inches)	Minimum Thickness (coated) (inches)
14 and under	0.188	0.188
16	0.281	0.219
18	0.312	0.250
20 and 22	0.344	0.281
24	0.375	0.312
26	0.406	0.344
28	0.138	0.375



NOTES:

1. EACH SECTION OF PIPE WITHIN CASING SHALL HAVE A MINIMUM OF (3) CASING SPACERS/SKIDS. THE MIDDLE SPACER/SKID SHALL BE CENTERED BETWEEN PIPE JOINTS.
2. EACH PIPE JOINT WITHIN THE CASING SHALL BE RESTRAINED.
3. ANODES AND TEST STATIONS ARE REQUIRED BY THE DEPARTMENT FOR MAJOR CROSSINGS (RAILROADS/RIVERS/DITCHES) AND LARGE STORMWATER CULVERTS. THE SIZE OF THE ANODES AND THE LOCATIONS OF THE CP TEST STATIONS SHALL BE SHOWN ON THE PLANS.
4. EXTEND TRACING WIRE THROUGH CASING (WATER APPLICATIONS ONLY).
5. SEE ADDITIONAL CATHODIC PROTECTION INFORMATION ON DETAIL W-105.

STEEL CASING DRAWING

Print Date: 11/21/2022
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City of Evans, Colorado

FREEDOM Parkway

CDOT

As Constructed No Revisions: Revised: Void:	37TH STREET WIDENING PHASE 1 DETAILS		Project No. AQC M415-021
	Designer: T. Tuttle	Structure Numbers	Drawing Number DT-011
	Detailer: J. Jensen	Sheet Subset: DETAILS	Subset Sheets: 11 of 12
			Sheet Number 33

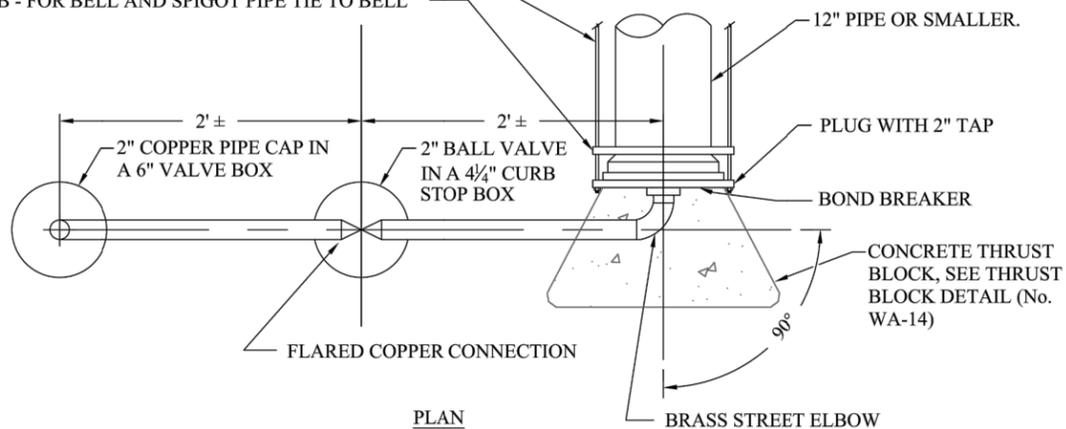
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ADVERTISEMENT SET 12/1/2022

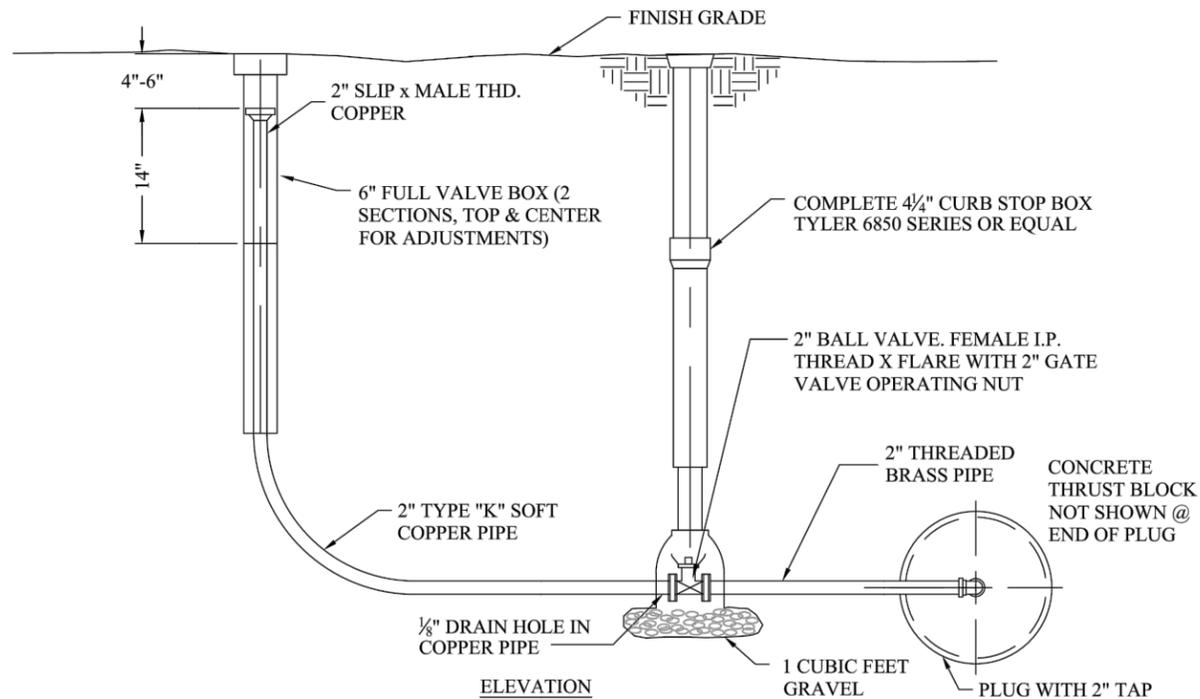
NOTE:

PLUG SHALL BE MECHANICALLY RESTRAINED:
 A - FOR SLEEVE TYPE MACHINED COUPLING PIPE TIE BACK TO NEXT COUPLING

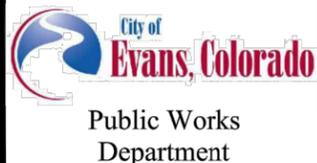
B - FOR BELL AND SPIGOT PIPE TIE TO BELL



PLAN



ELEVATION



**BLOWOFF ASSEMBLY
 INSTALLATION DETAIL
 FOR 12" & SMALLER PIPE**

Scale: N.T.S.

WA-2

May 2019

Print Date: 11/21/2022

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**37TH STREET WIDENING PHASE 1
 DETAILS**

Designer:	T. Tuttle	Structure Numbers	
Detailer:	J. Jensen		
Sheet Subset:	DETAILS	Subset Sheets:	12 of 12

Project No.

AQC M415-021

Drawing Number DT-012

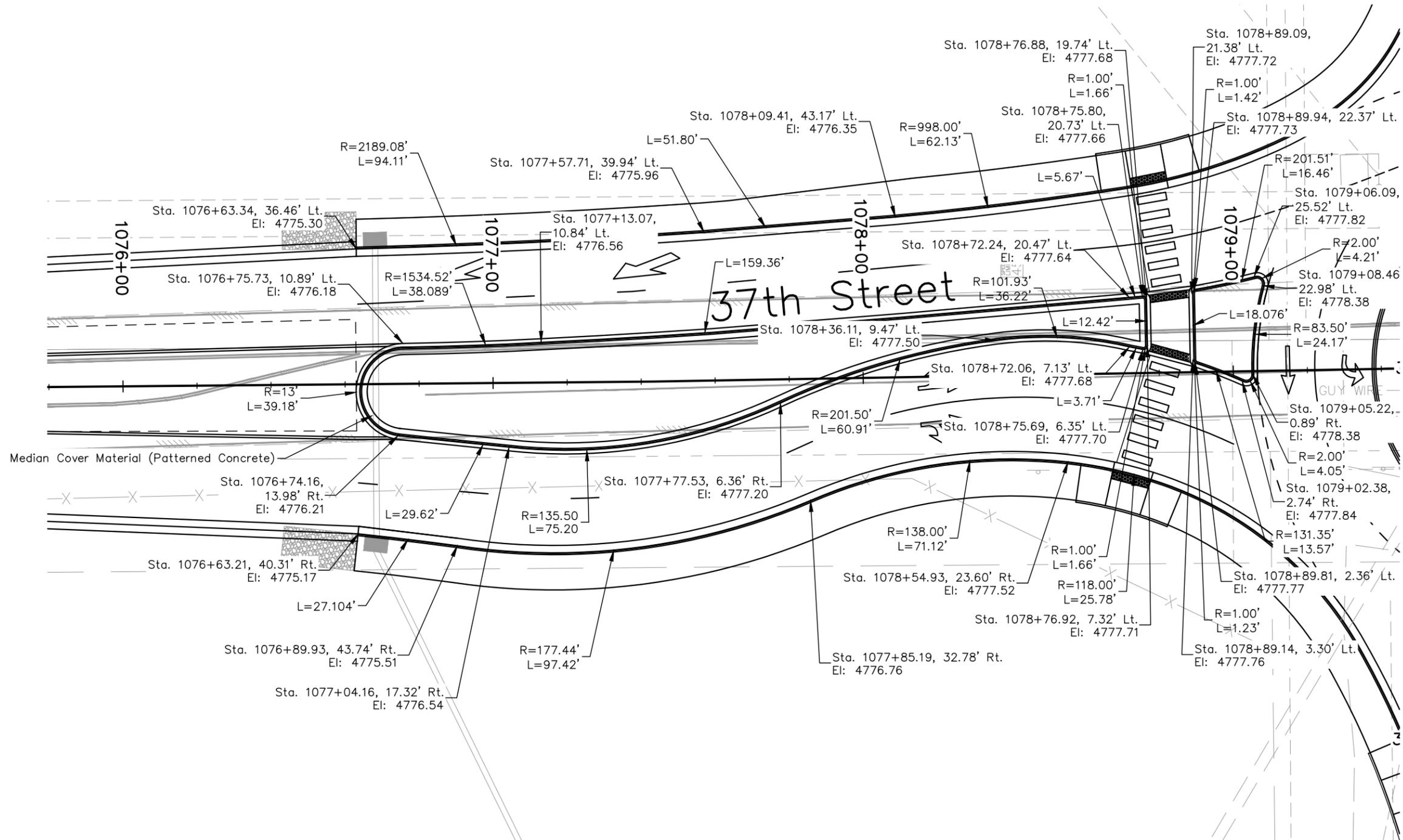
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NOTE: All curb and gutter call outs are to FL of gutter.



Plot Date: 12/1/2022 9:07 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

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Sheet Revisions		
Date	Comments	Initials

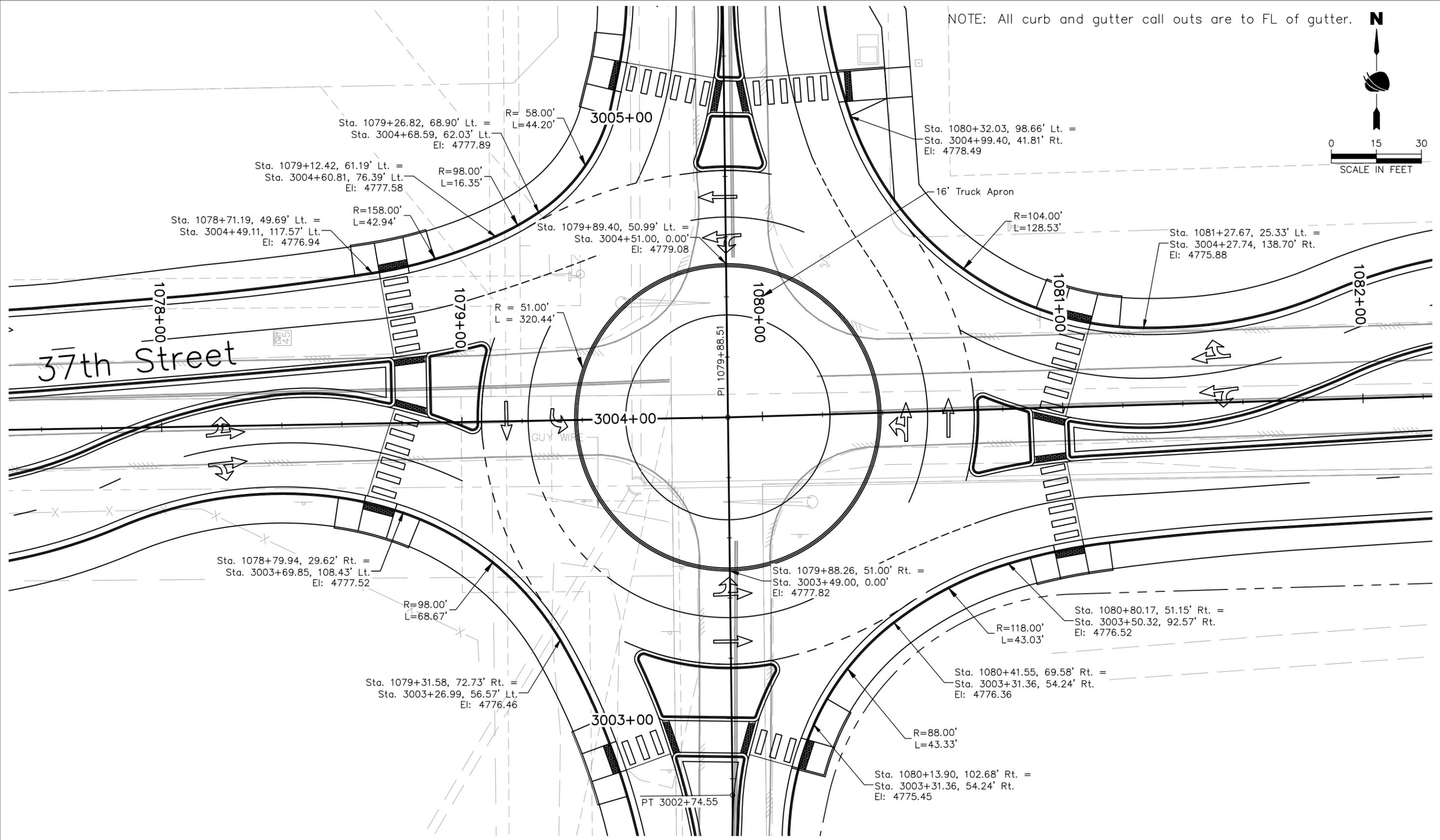


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No Revisions:
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37TH STREET WIDENING PHASE 1 ROUNDABOUT MEDIAN DETAILS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	H. Pugh	
Sheet Subset:	MEDIAN	Subset Sheets: 1 of 5

Project No.
AQC M415-021
Drawing Number MED-001
Sheet Number 35

NOTE: All curb and gutter call outs are to FL of gutter.



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Date	Comments	Initials

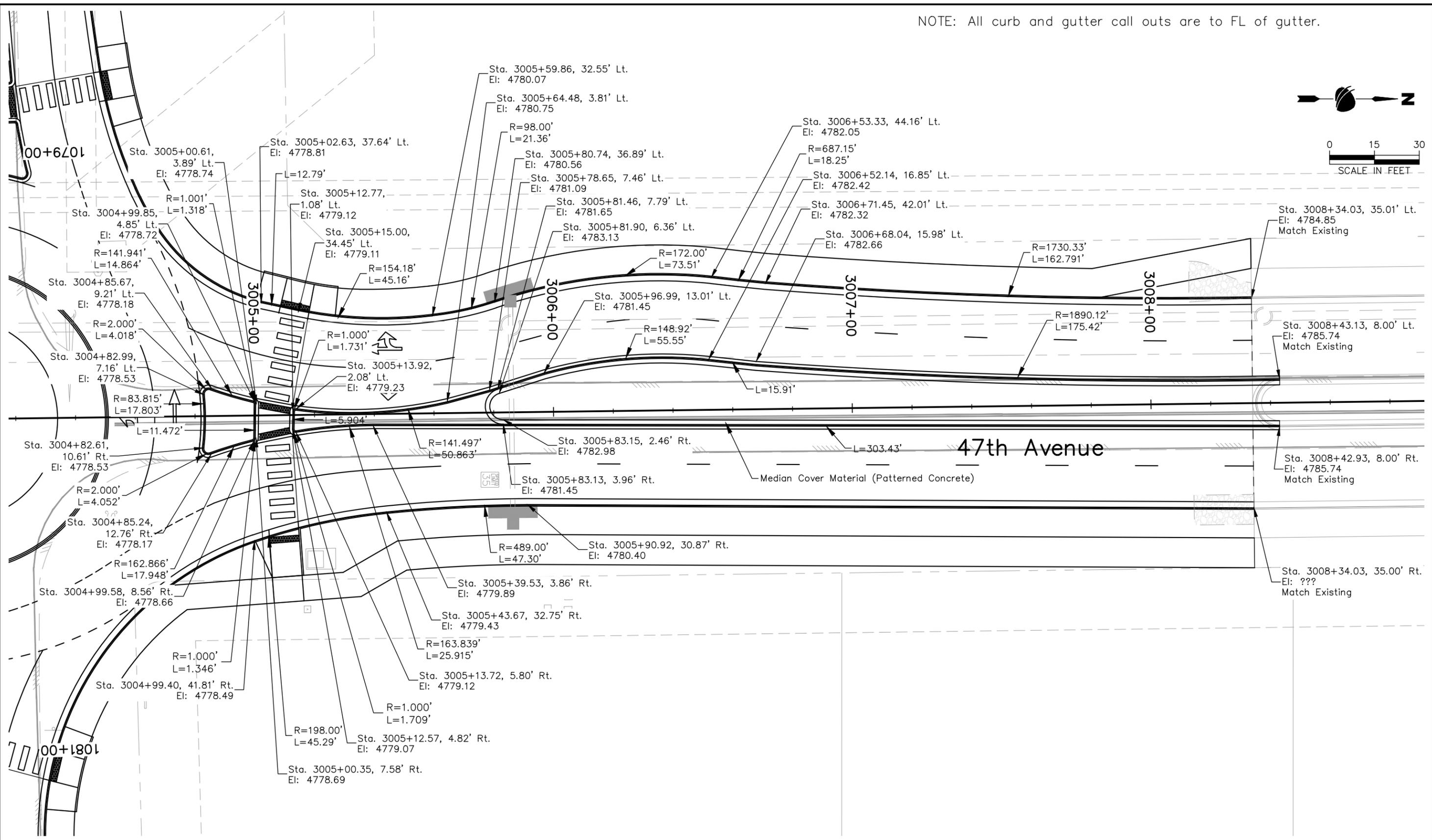
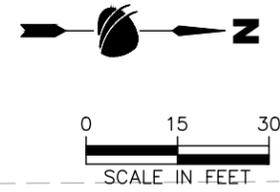


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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 ROUNDABOUT MEDIAN DETAILS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	H. Pugh	
Sheet Subset:	MEDIAN	Subset Sheets: 2 of 5

Project No.
AQC M415-021
Drawing Number MED-002
Sheet Number 36

NOTE: All curb and gutter call outs are to FL of gutter.



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Sheet Revisions		
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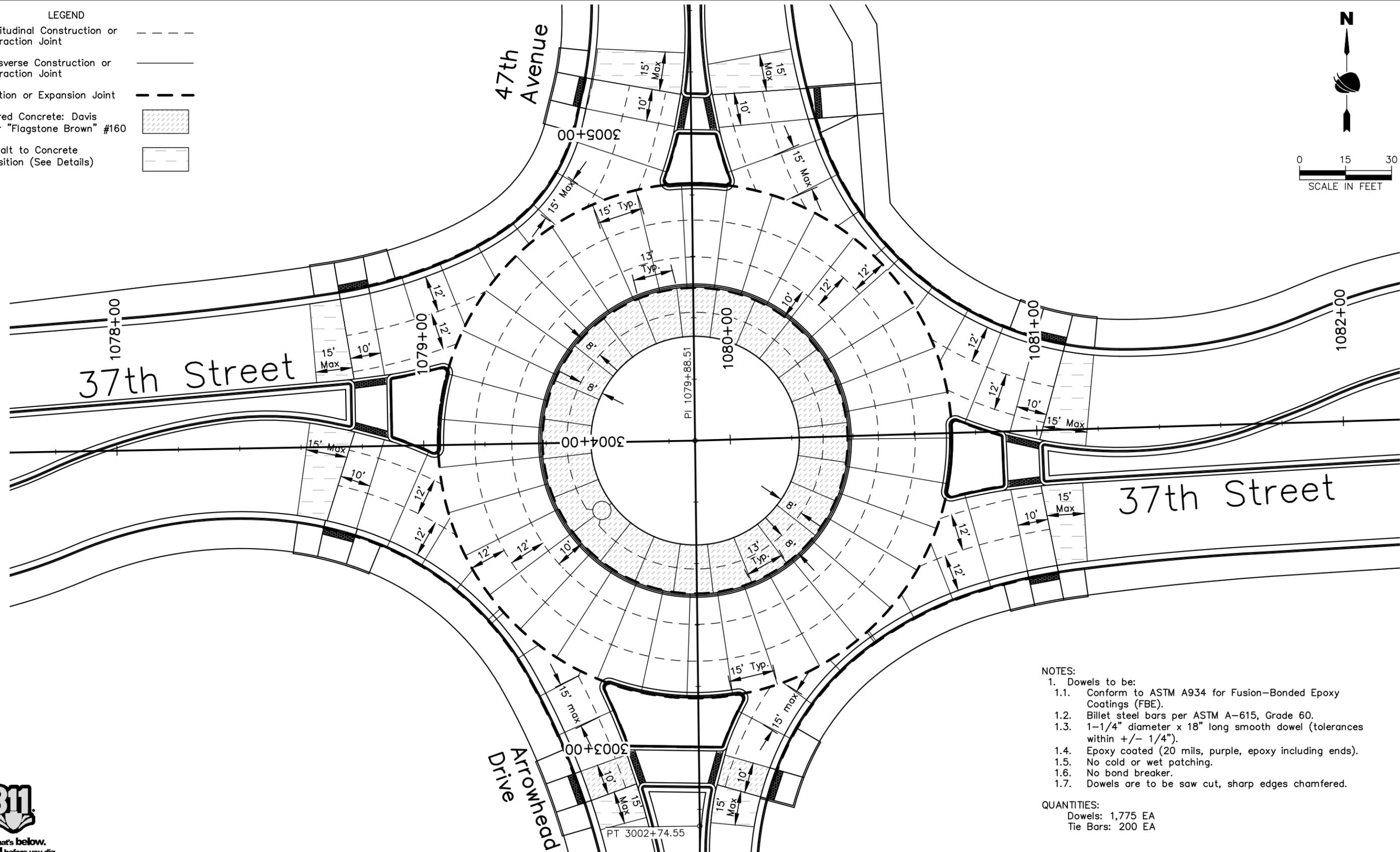
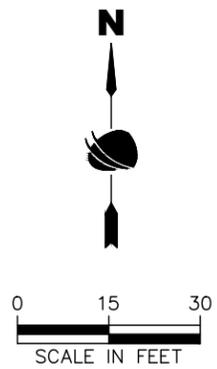
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37TH STREET WIDENING PHASE 1 ROUNDABOUT MEDIAN DETAILS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	H. Pugh	
Sheet Subset:	MEDIAN	Subset Sheets: 5 of 5

Project No.
AQC M415-021
Drawing Number MED-005
Sheet Number 39

LEGEND

Longitudinal Construction or Contraction Joint	---
Transverse Construction or Contraction Joint	—
Isolation or Expansion Joint	- - -
Colored Concrete: Davis Color "Flagstone Brown" #160	
Asphalt to Concrete Transition (See Details)	



- NOTES:**
- Dowels to be:
 - Conform to ASTM A934 for Fusion-Bonded Epoxy Coatings (FBE).
 - Billet steel bars per ASTM A-615, Grade 60.
 - 1-1/4" diameter x 18" long smooth dowel (tolerances within +/- 1/4").
 - Epoxy coated (20 mils, purple, epoxy including ends).
 - No cold or wet patching.
 - No bond breaker.
 - Dowels are to be saw cut, sharp edges chamfered.

QUANTITIES:
 Dowels: 1,775 EA
 Tie Bars: 200 EA



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37TH STREET WIDENING PHASE 1 CONCRETE JOINT PLAN	
Designer: T. Tuttle	Structure Numbers
Detailer: K. Schultz	
Sheet Subset: JOINT	Subset Sheets: 1 of 1

Project No.
AQC M415-021
Drawing Number INT-001
Sheet Number 40

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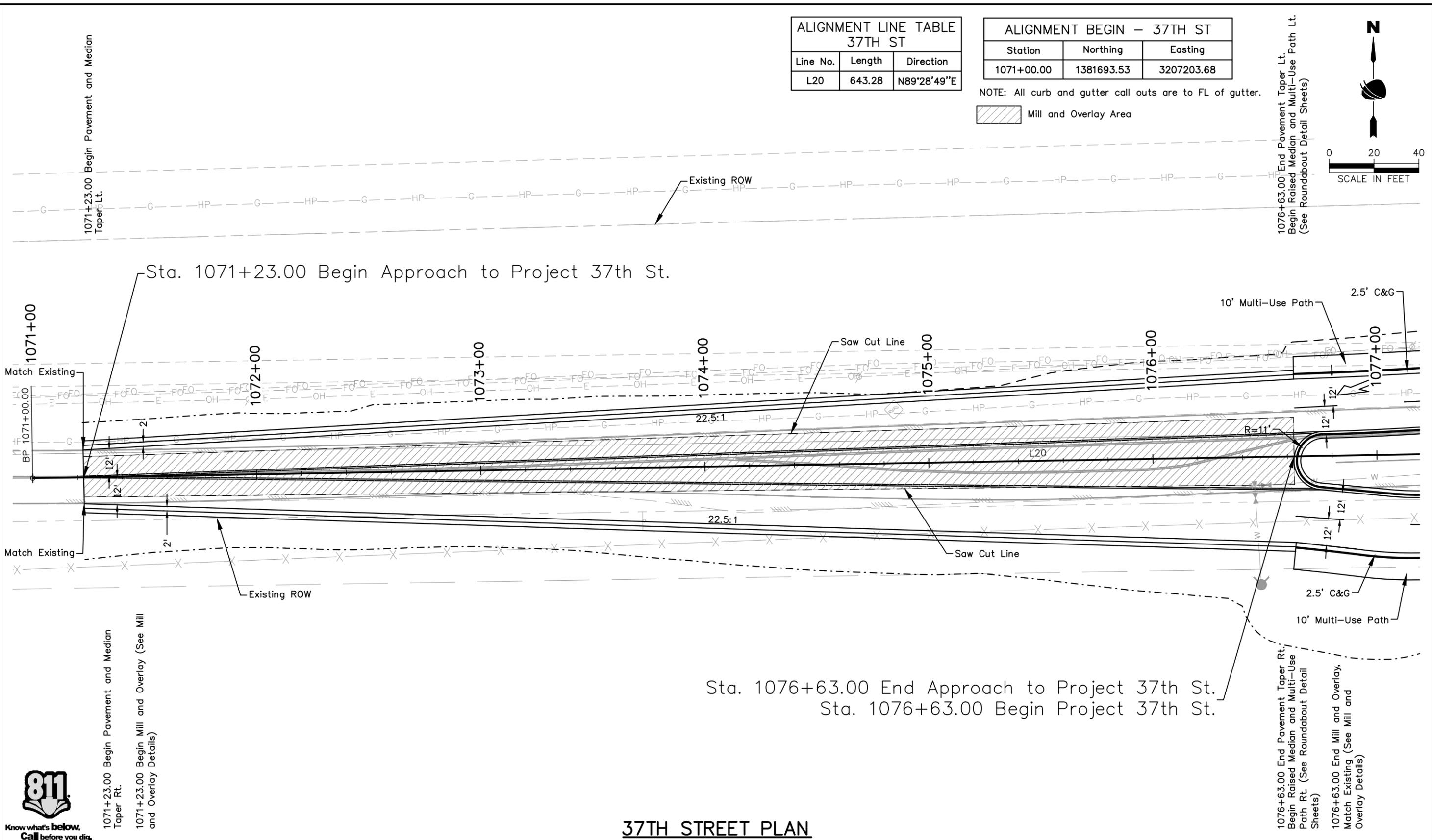
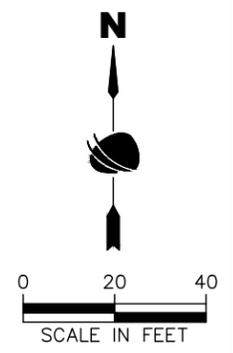
ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L20	643.28	N89°28'49"E

ALIGNMENT BEGIN - 37TH ST		
Station	Northing	Easting
1071+00.00	1381693.53	3207203.68

NOTE: All curb and gutter call outs are to FL of gutter.

 Mill and Overlay Area

1071+23.00 Begin Pavement and Median Taper Lt.
1076+63.00 End Pavement Taper Rt. Begin Raised Median and Multi-Use Path Lt. (See Roundabout Detail Sheets)



37TH STREET PLAN

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1071+23.00 Begin Pavement and Median Taper Rt.
1071+23.00 Begin Mill and Overlay (See Mill and Overlay Details)

1076+63.00 End Pavement Taper Rt. Begin Raised Median and Multi-Use Path Rt. (See Roundabout Detail Sheets)
1076+63.00 End Mill and Overlay, Match Existing (See Mill and Overlay Details)

Print Date: 11/21/2022	
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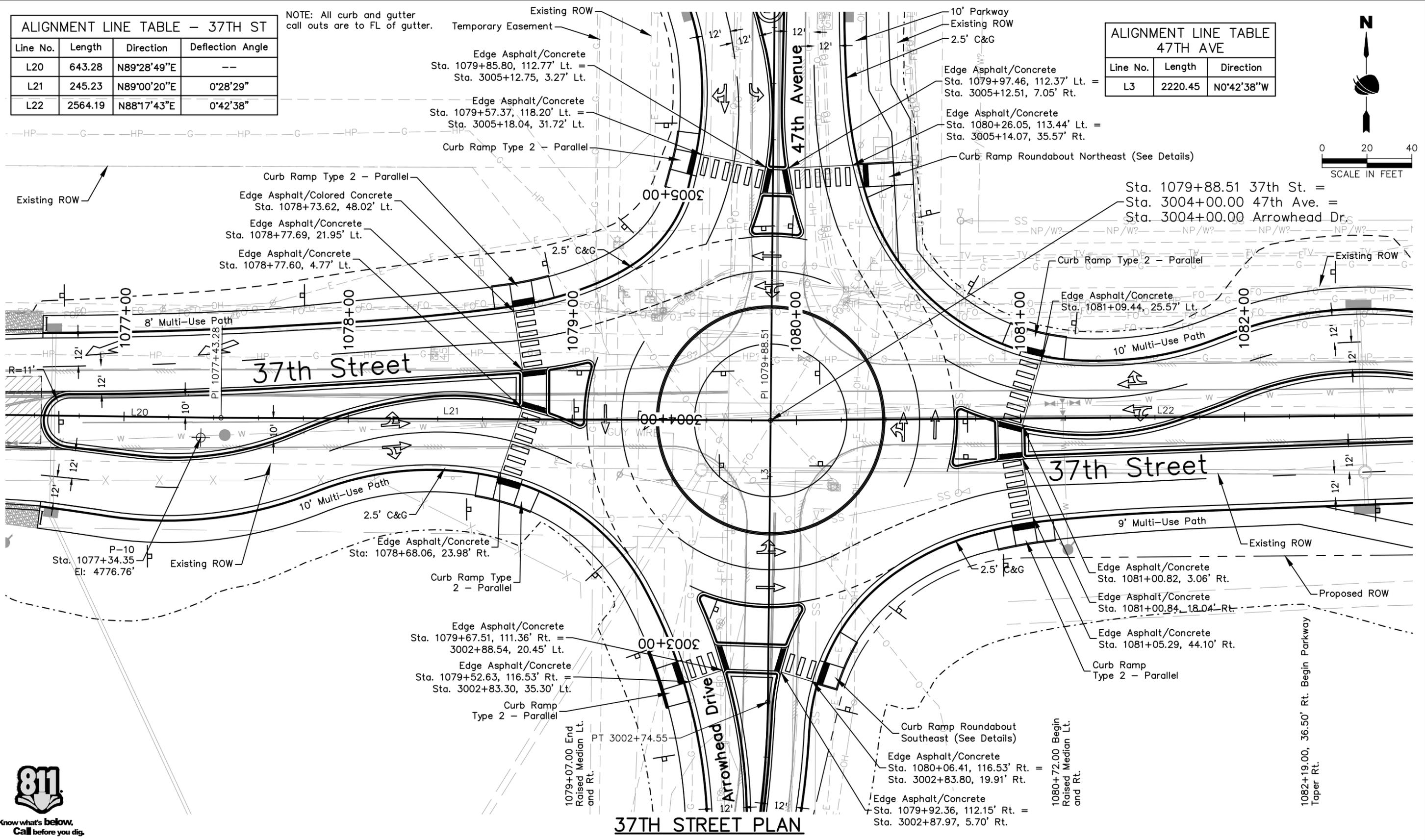
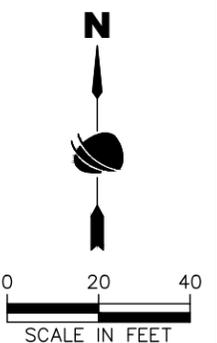
37TH STREET WIDENING PHASE 1 ROADWAY PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 1 of 7

Project No.
AQC M415-021
Drawing Number PLAN-001
Sheet Number 41

ALIGNMENT LINE TABLE - 37TH ST			
Line No.	Length	Direction	Deflection Angle
L20	643.28	N89°28'49"E	--
L21	245.23	N89°00'20"E	0°28'29"
L22	2564.19	N88°17'43"E	0°42'38"

NOTE: All curb and gutter call outs are to FL of gutter.

ALIGNMENT LINE TABLE 47TH AVE		
Line No.	Length	Direction
L3	2220.45	N0°42'38"W



37TH STREET PLAN



Plot Date: 11/21/2022 12:56 PM. Plotted By: Sarah Hemler
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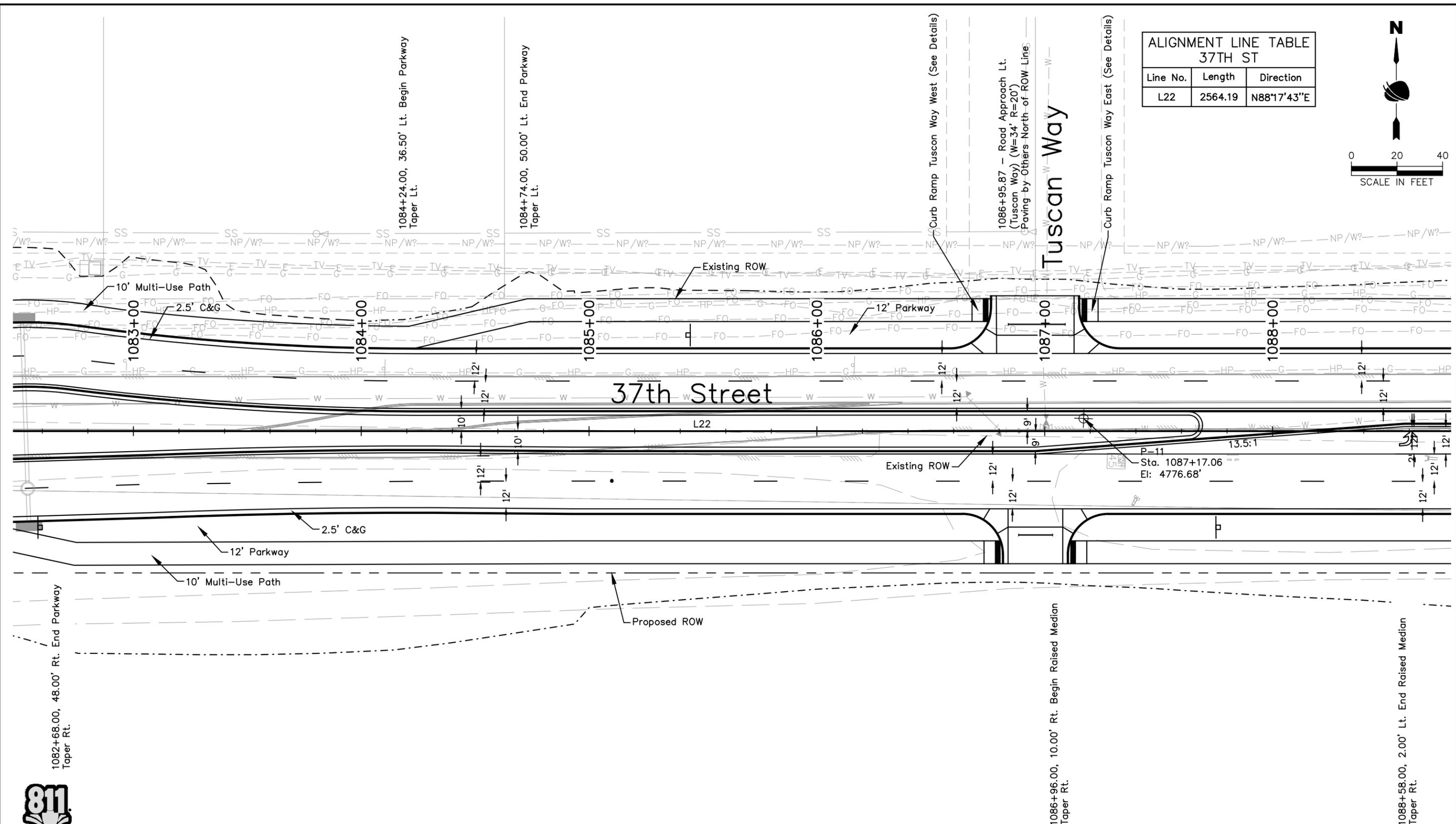
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37TH STREET WIDENING PHASE 1 ROADWAY PLAN	
Designer:	T. Tuttle
Detailer:	S. Hemler
Sheet Subset:	PLAN
Structure Numbers:	
Subset Sheets:	2 of 7

Project No.
AQC M415-021
Drawing Number PLAN-002
Sheet Number 42



ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L22	2564.19	N88°17'43"E



37th Street

37TH STREET PLAN

Plot Date: 11/21/2022 12:56 PM. Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
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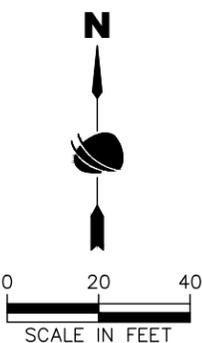
37TH STREET WIDENING PHASE 1 ROADWAY PLANS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 3 of 7

Project No.
AQC M415-021
Drawing Number PLAN-003
Sheet Number 43

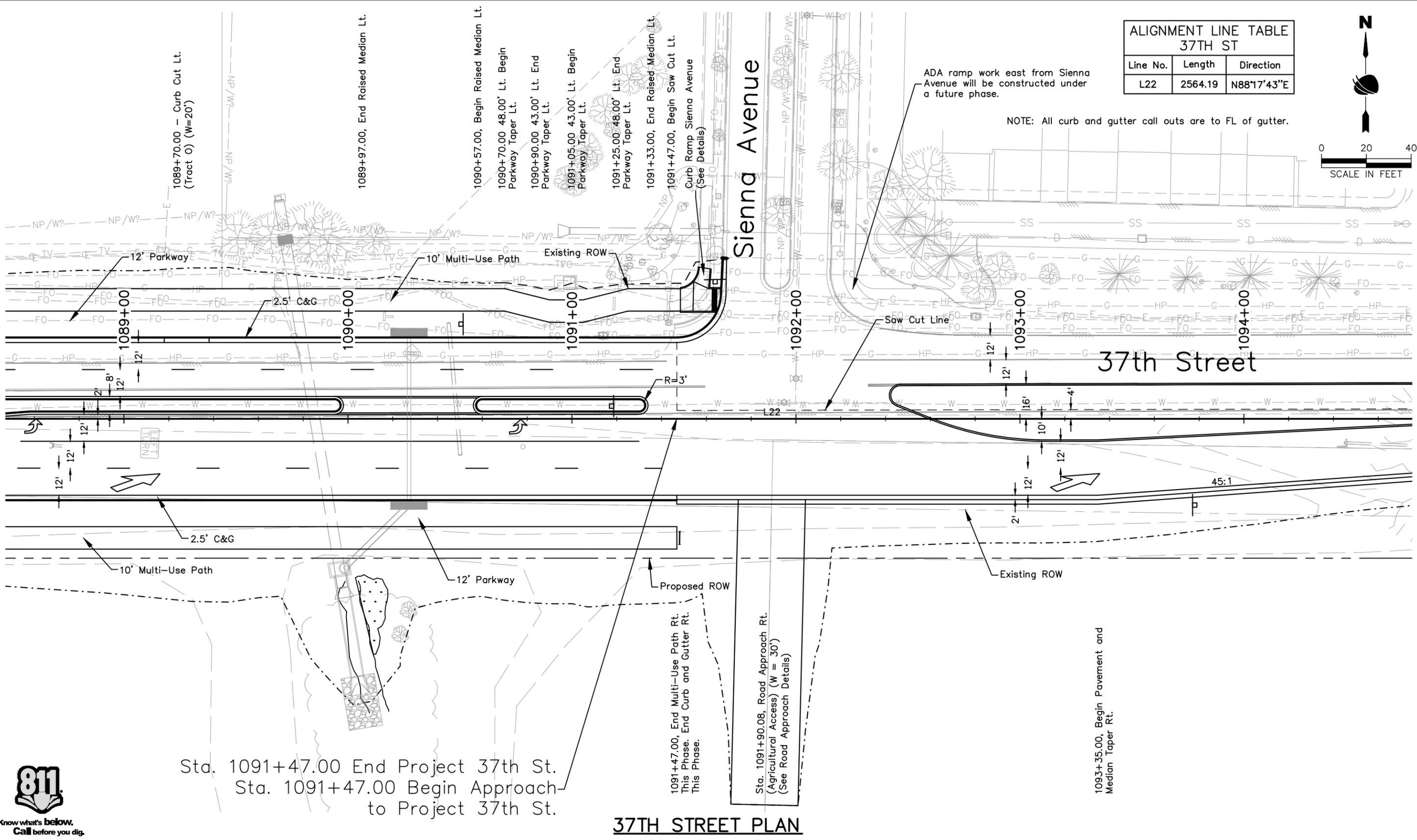
ADVERTISEMENT SET 12/1/2022

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ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L22	2564.19	N88°17'43"E



NOTE: All curb and gutter call outs are to FL of gutter.



Sta. 1091+47.00 End Project 37th St.
 Sta. 1091+47.00 Begin Approach
 to Project 37th St.

37TH STREET PLAN



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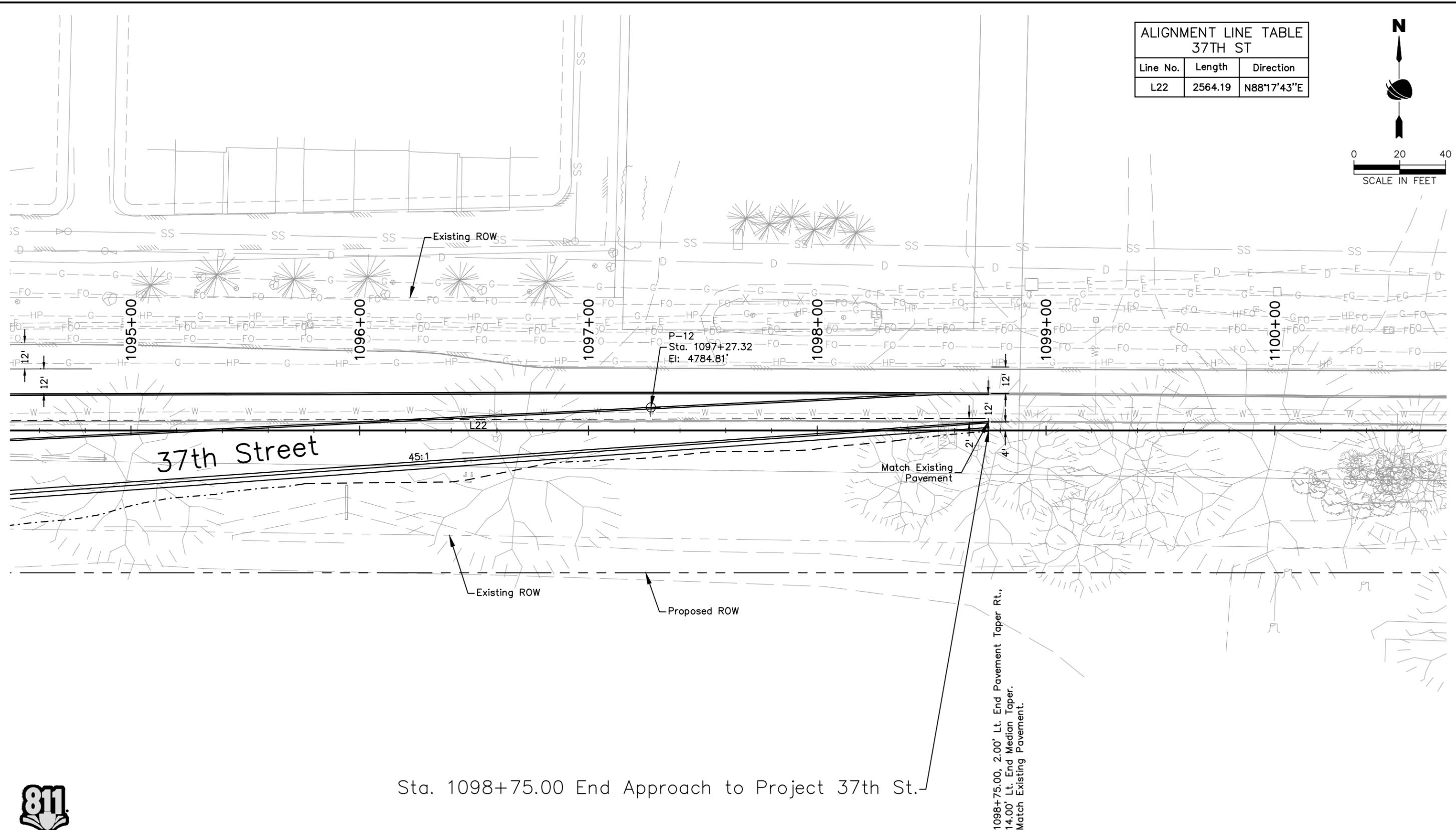
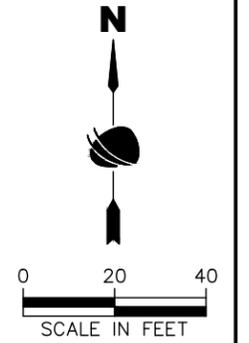
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37TH STREET WIDENING PHASE 1 ROADWAY PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 4 of 7

Project No.
AQC M415-021
Drawing Number PLAN-004
Sheet Number 44

ADVERTISEMENT SET 12/1/2022

ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L22	2564.19	N88°17'43"E



Sta. 1098+75.00 End Approach to Project 37th St.

37TH STREET PLAN



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Call before you dig.

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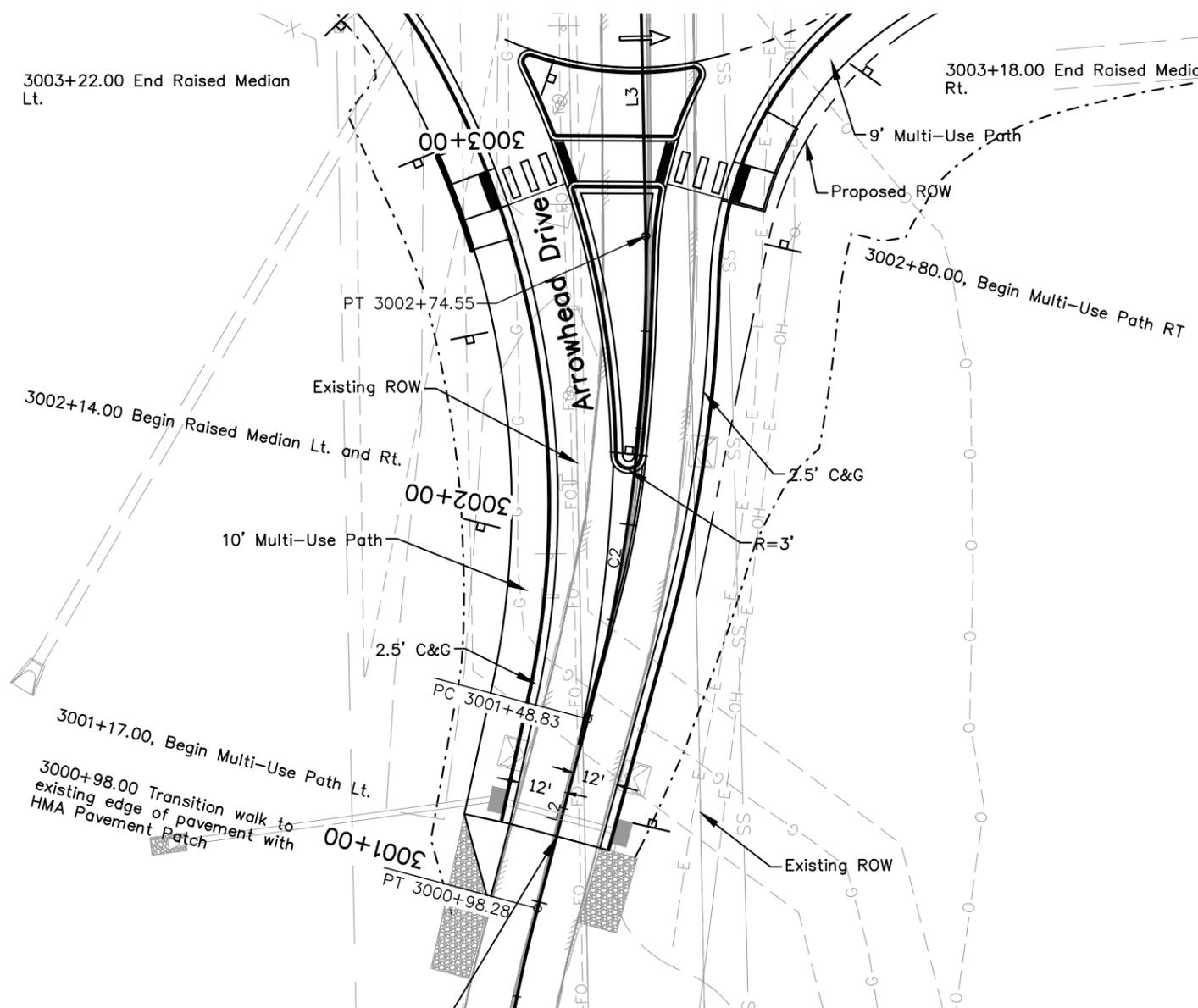
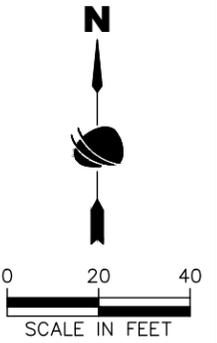
As Constructed
No Revisions:
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37TH STREET WIDENING PHASE 1 ROADWAY PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 5 of 7

Project No.
AQC M415-021
Drawing Number PLAN-005
Sheet Number 45

Plot Date: 11/21/2022 12:56 PM. Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022



Sta. 3001+17.00 Begin Project 47th Ave.

NOTE: All curb and gutter call outs are to FL of gutter.

Curve No.	PC Sta.	PI Sta.	PT Sta.	Delta	L	T	R	Dc	MDS
C1	3000+04.11	3000+51.43	3000+98.28	13°50'06" Rt.	94.17	47.32	390.00	14°43'54" Rt.	35 MPH
C2	3001+48.83	3002+12.11	3002+74.55	16°04'12" Lt.	125.72	63.27	448.23	12°48'34" Lt.	35 MPH

Station	Northing	Easting
2999+00.00	1381208.15	3208047.75

Line No.	Length	Direction
L1	104.11	N1°31'28"E
L2	50.55	N15°21'34"E
L3	2220.45	N0°42'38"W

ARROWHEAD DRIVE PLAN



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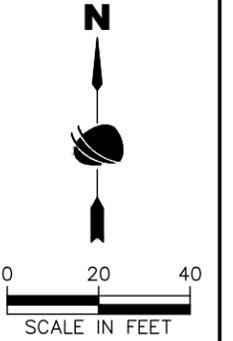
37TH STREET WIDENING PHASE 1 ROADWAY PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 6 of 7

Project No.
AQC M415-021
Drawing Number PLAN-006
Sheet Number 46

ADVERTISEMENT SET 12/1/2022

Sta. 3008+34.00 End Project 47th Ave.

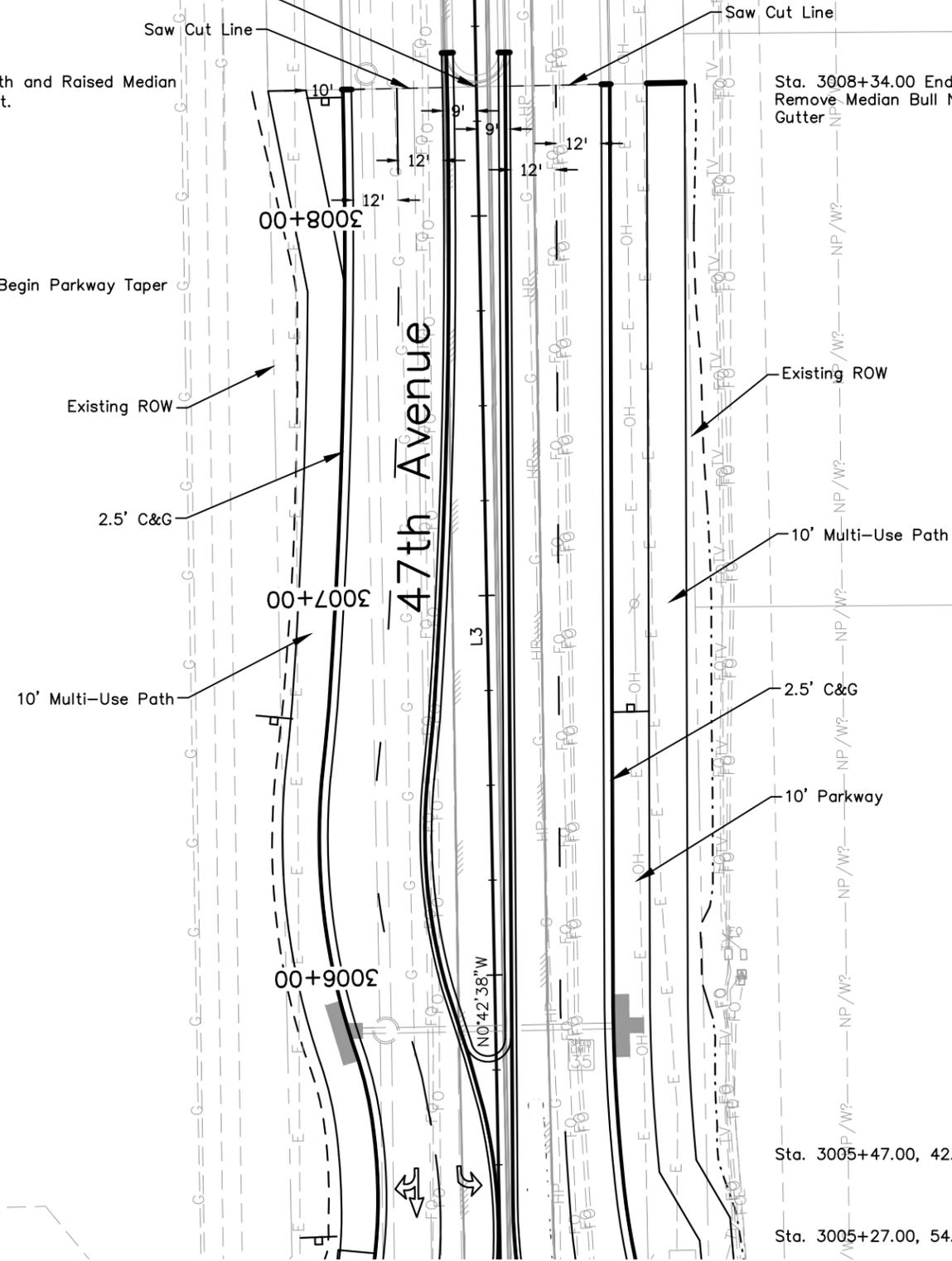
ALIGNMENT LINE TABLE 47TH AVE		
Line No.	Length	Direction
L3	2220.45	N0°42'38"W



Sta. 3008+34.00 End Multi-Use Path and Raised Median Lt., 44.00' Lt. End Parkway Taper Lt.

Sta. 3008+34.00 End Multi-Use Path and Raised Median Rt. Remove Median Bull Nose Tie into Existing Median Curb and Gutter

Sta. 3005+52.00, 35.50' LT, Begin Parkway Taper



Sta. 3005+47.00, 42.50' Rt., End Parkway Taper Rt.

Sta. 3005+27.00, 54.00' Rt., Begin Parkway Taper Rt.

47TH AVENUE PLAN



Know what's below.
Call before you dig.

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Horiz. Scale: As Noted Vert. Scale: N/A



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**37TH STREET WIDENING PHASE 1
ROADWAY PLAN**

Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	PLAN	Subset Sheets:	7 of 7

Project No.

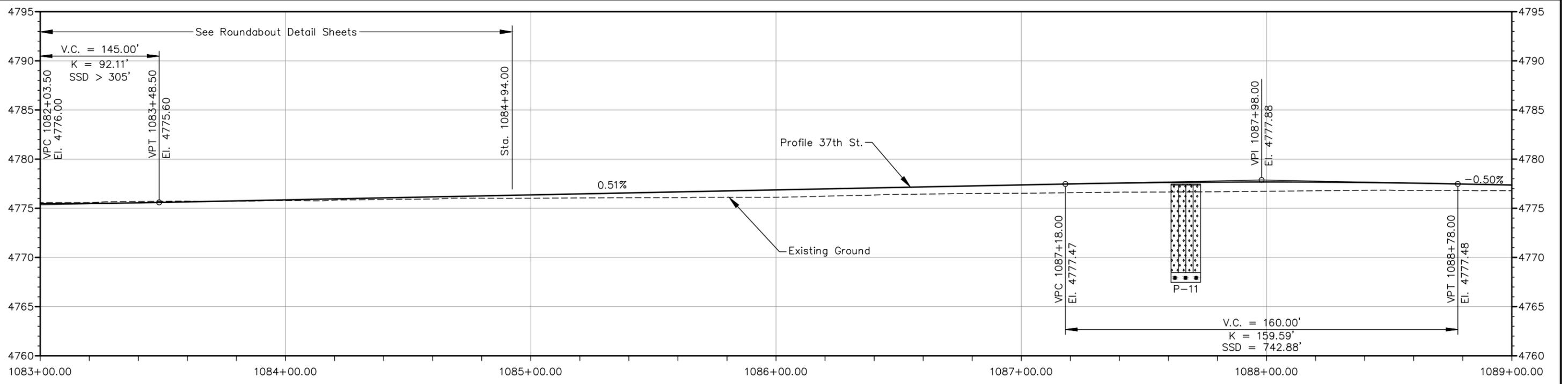
AQC M415-021

Drawing Number PLAN-007

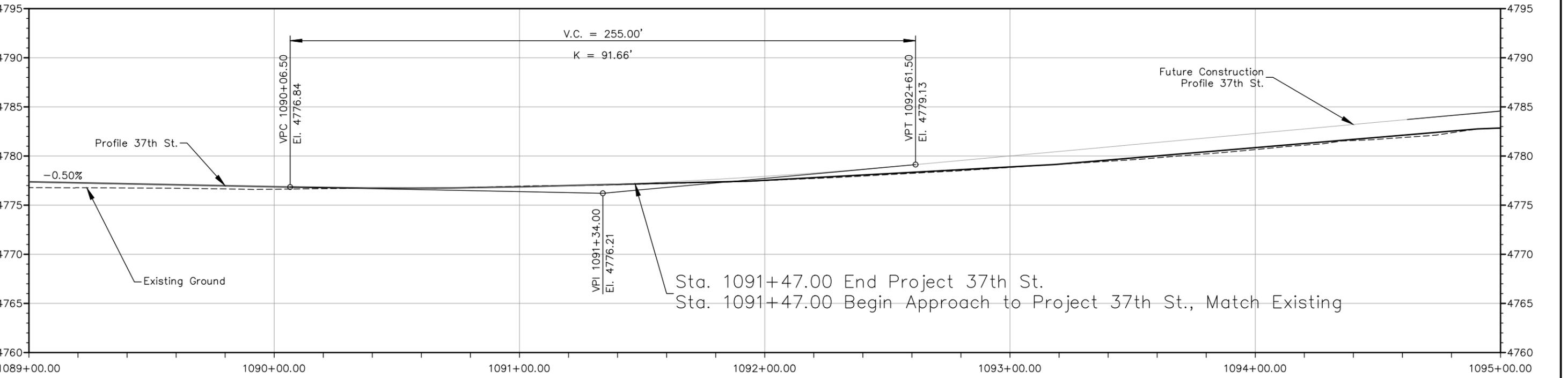
Sheet Number 47

ADVERTISEMENT SET 12/1/2022

Plot Date: 11/21/2022 12:56 PM, Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\33001 LEVANS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\11\802-SHEET FILES\ROADABOUT\PLAN P1-001 ROADWAY PLAN.DWG



37TH STREET PROFILE



37TH STREET PROFILE

- LITHOLOGY**
- TOPSOIL
 - Native - SAND, silty
 - Bedrock - SANDSTONE



Print Date: 11/21/2022
 File Name: PR P1-001 ROADWAY PROFILE.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted
 12076 Grant Street
 Thornton, CO 80241
 Ph: (303) 962-9300
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



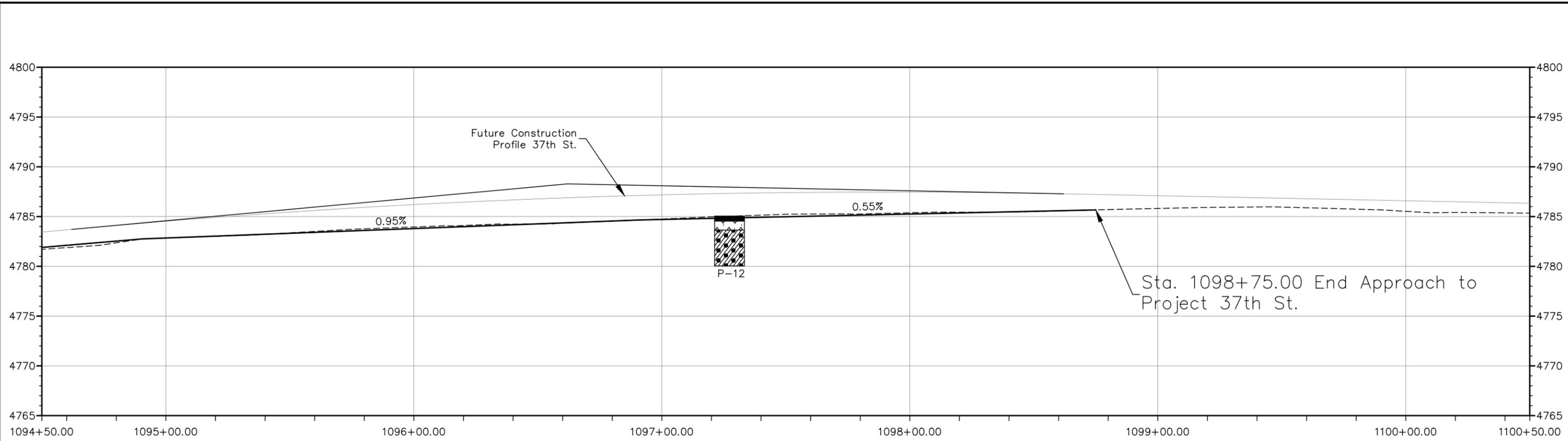
As Constructed
 No Revisions:
 Revised:
 Void:

37TH STREET WIDENING PHASE 1 ROADWAY PROFILE
 Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: PROFILE
 Structure Numbers:
 Subset Sheets: 2 of 4

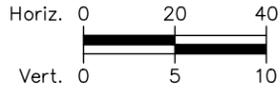
Project No.
 AQC M415-021
 Drawing Number PR-002
 Sheet Number 49

Plot Date: 11/21/2022 9:10 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022



37TH STREET PROFILE



- LITHOLOGY**
- Asphalt Pavement
 - Fill - SAND, clayey to silty
 - Native - CLAY, sandy



Plot Date: 11/21/2022 9:10 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\33000 LEWIS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\1\802-SHEET FILES\ROUNDABOUT\PR P1-001 ROADWAY PROFILE.DWG

ADVERTISEMENT SET 12/1/2022

Print Date: 11/21/2022	
File Name: PR P1-001 ROADWAY PROFILE.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

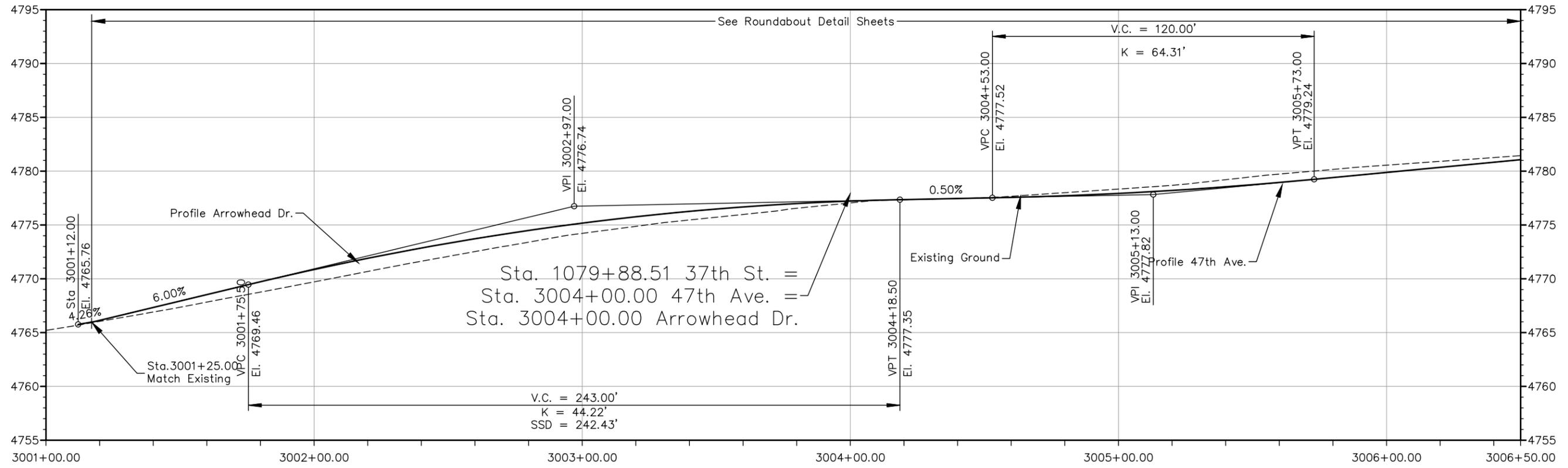
Sheet Revisions		
Date	Comments	Initials



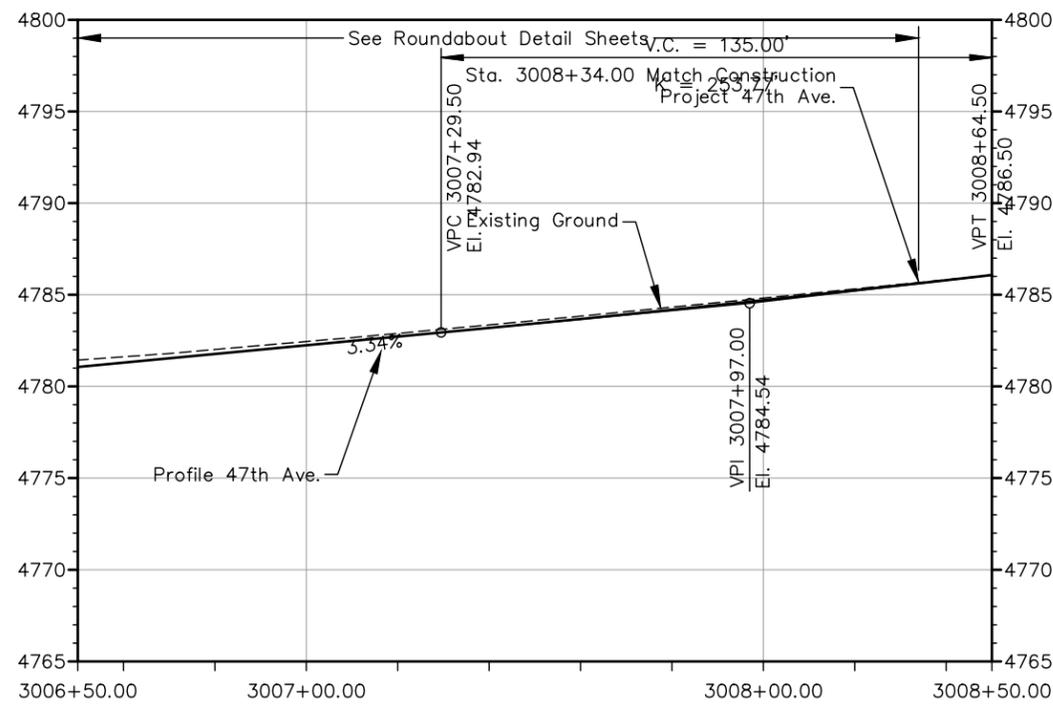
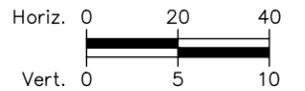
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 ROADWAY PROFILE		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: PROFILE Subset Sheets: 3 of 4
Detailer: S. Hemler		

Project No.
AQC M415-021
Drawing Number PR-003
Sheet Number 50



ARROWHEAD DRIVE & 47TH AVENUE PROFILE



47TH AVENUE PROFILE



Know what's below.
Call before you dig.

Print Date: 11/21/2022	
File Name: PR P1-001 ROADWAY PROFILE.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



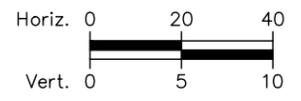
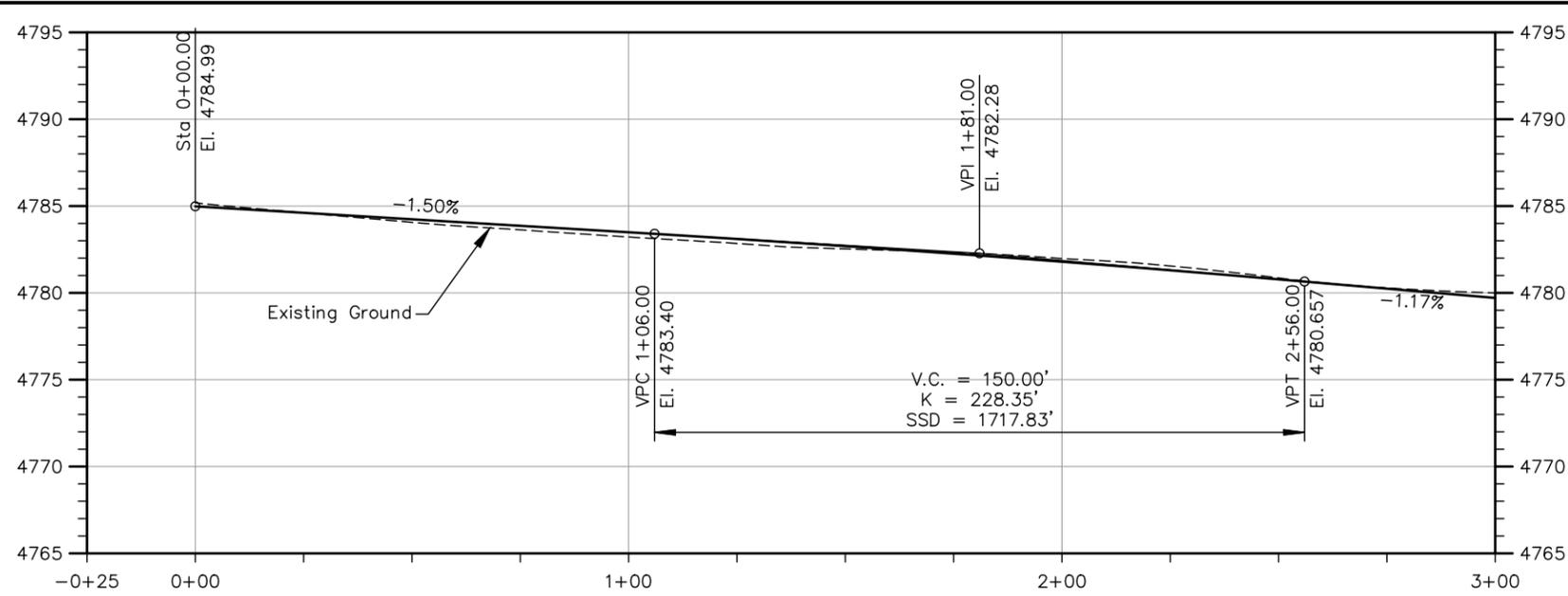
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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 ROADWAY PROFILE	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: PROFILE	Subset Sheets: 4 of 4

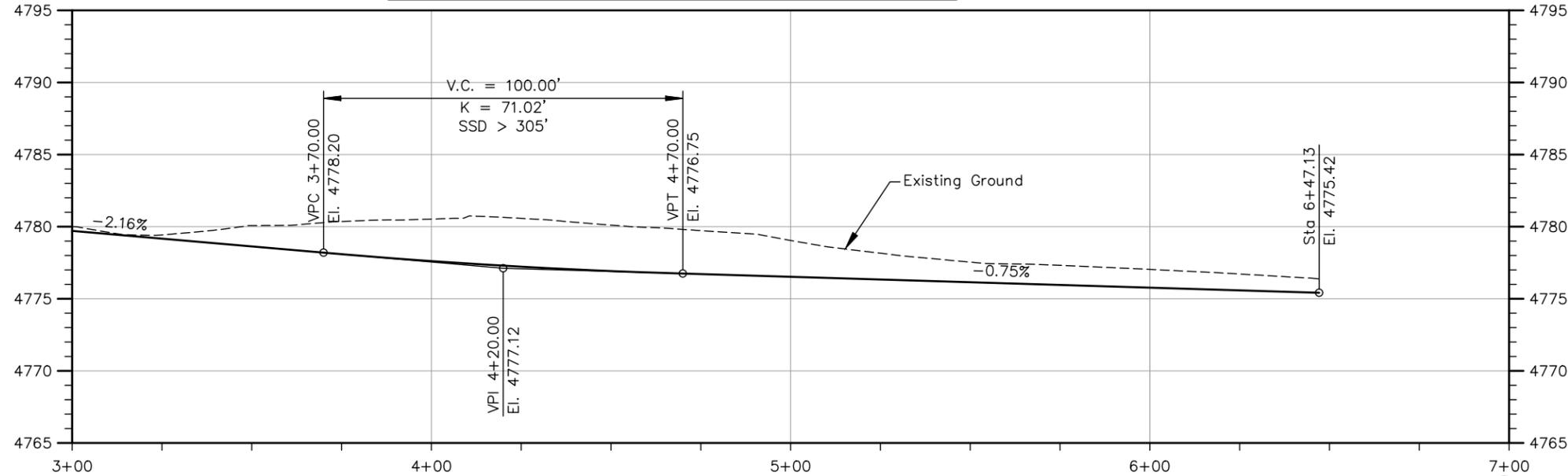
Project No.
AQC M415-021
Drawing Number PR-004
Sheet Number 51

Plot Date: 11/21/2022 9:10 AM Plotted By: Sarah Hemler
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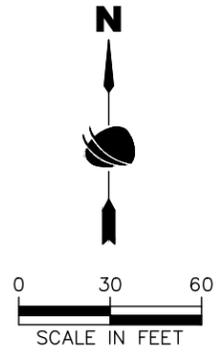
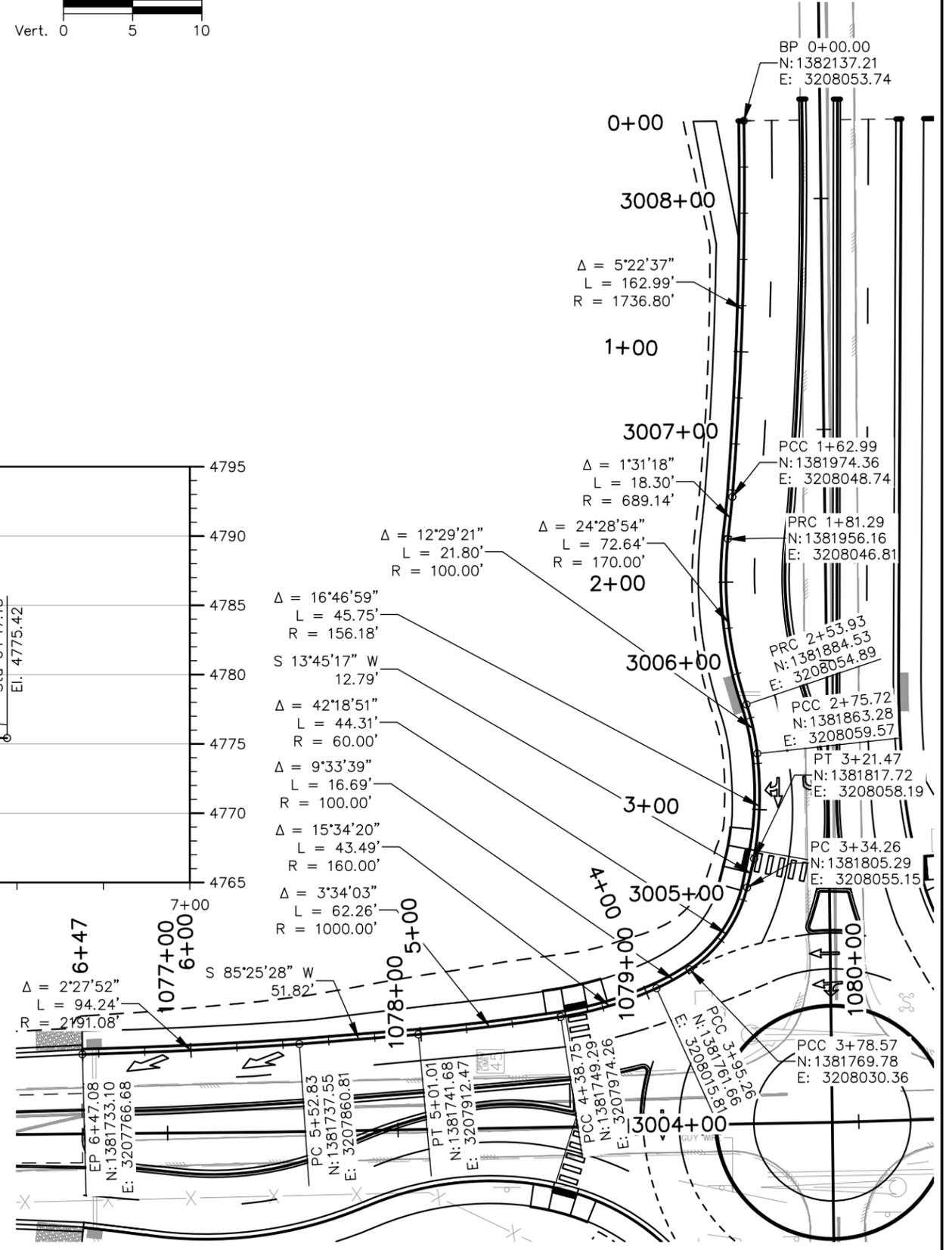
ADVERTISEMENT SET 12/1/2022



NORTHWEST LIP OF GUTTER PROFILE



NORTHWEST LIP OF GUTTER PROFILE



Plot Date: 11/21/2022 9:11 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: GUT-001 GUTTER PLAN & PROFILE.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date:	Comments	Init.

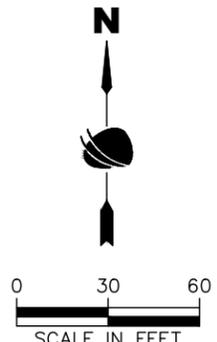
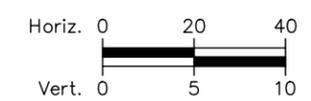
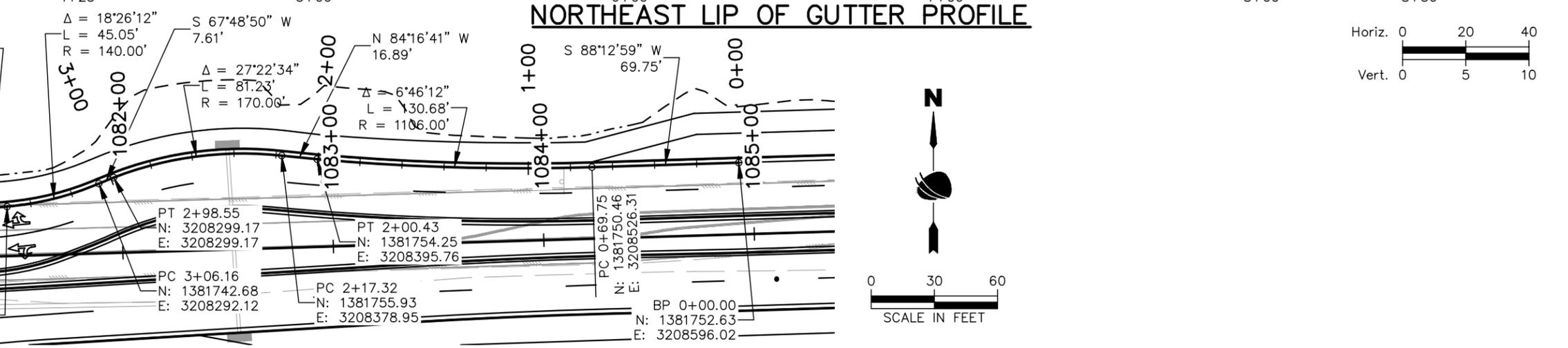
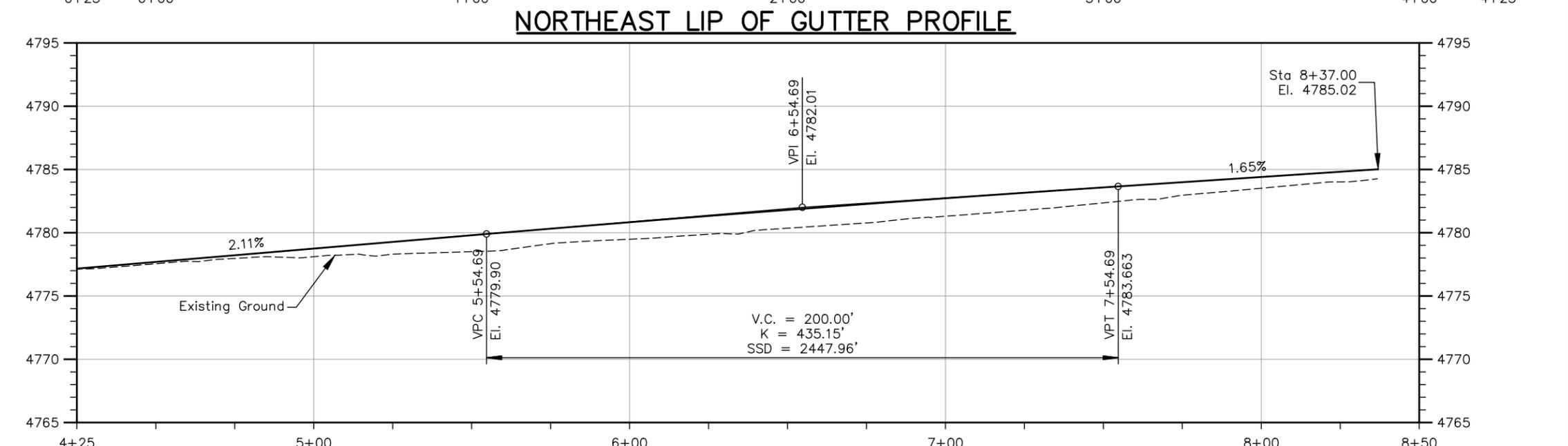
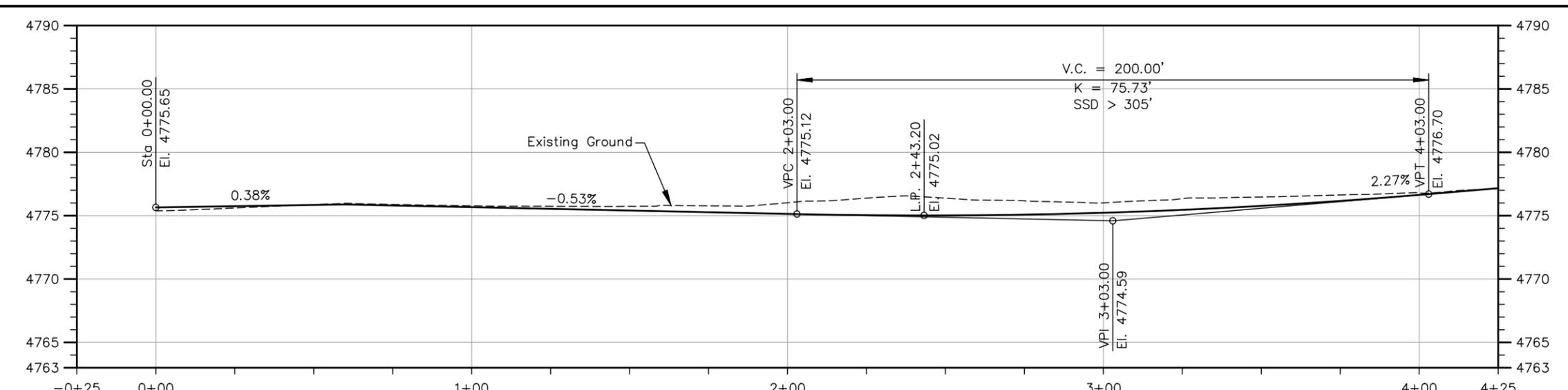
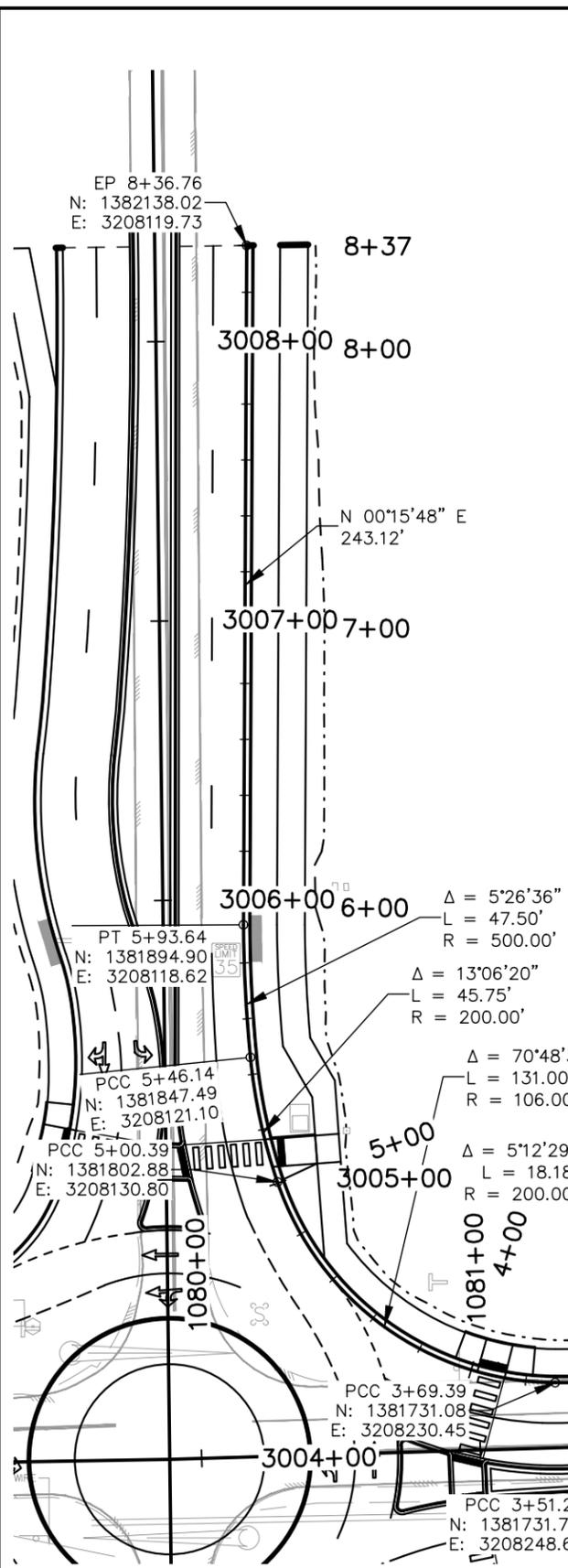


As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 ROUNDABOUT GUTTER PLAN AND PROFILES		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	GUTTER	Subset Sheets: 1 of 4

Project No.
AQC M415-021
Drawing Number GUT-001
Sheet Number 52

Plot Date: 11/21/2022 9:11 AM Plotted By: Sarah Hemler
 C:\UPROJECTS\ACTIVE PROJECTS\33000\LEWIS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\1002-SHEET FILES\ROUNDABOUT\GUT-001 GUTTER PLAN & PROFILE.DWG



Print Date: 11/21/2022
 File Name: GUT-001 GUTTER PLAN & PROFILE.DWG
 Horiz. Scale: As Noted
 Vert. Scale: As Noted

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Sheet Revisions		
Date:	Comments	Init.

City of Evans, Colorado
 FREEDOM Parkway
 CDOT

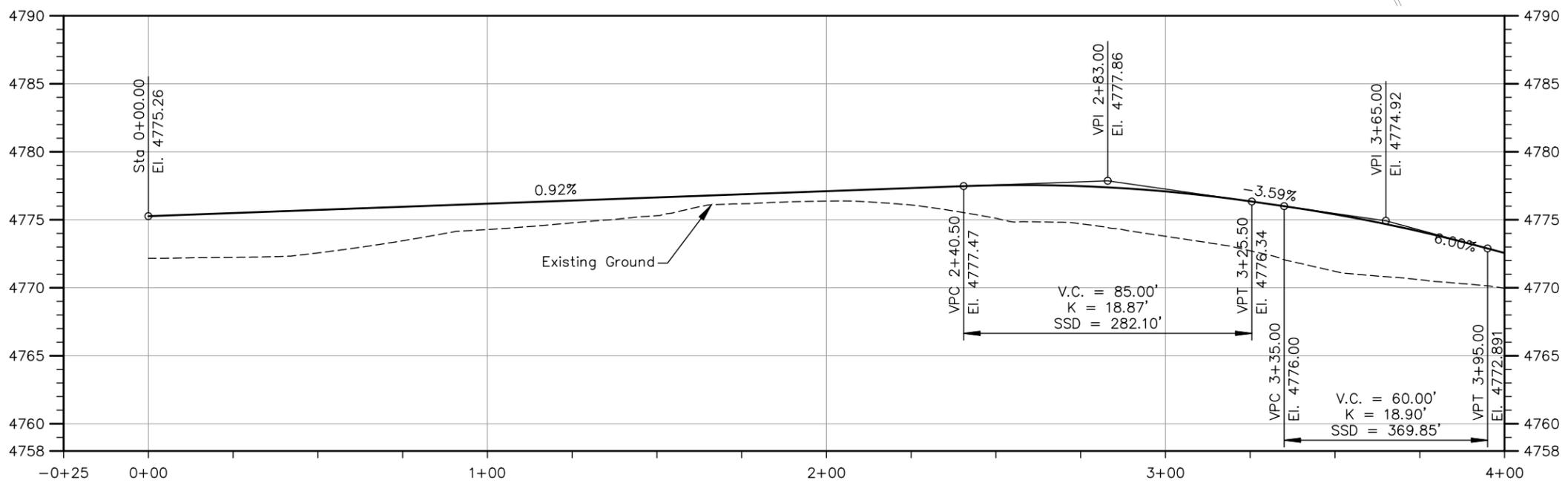
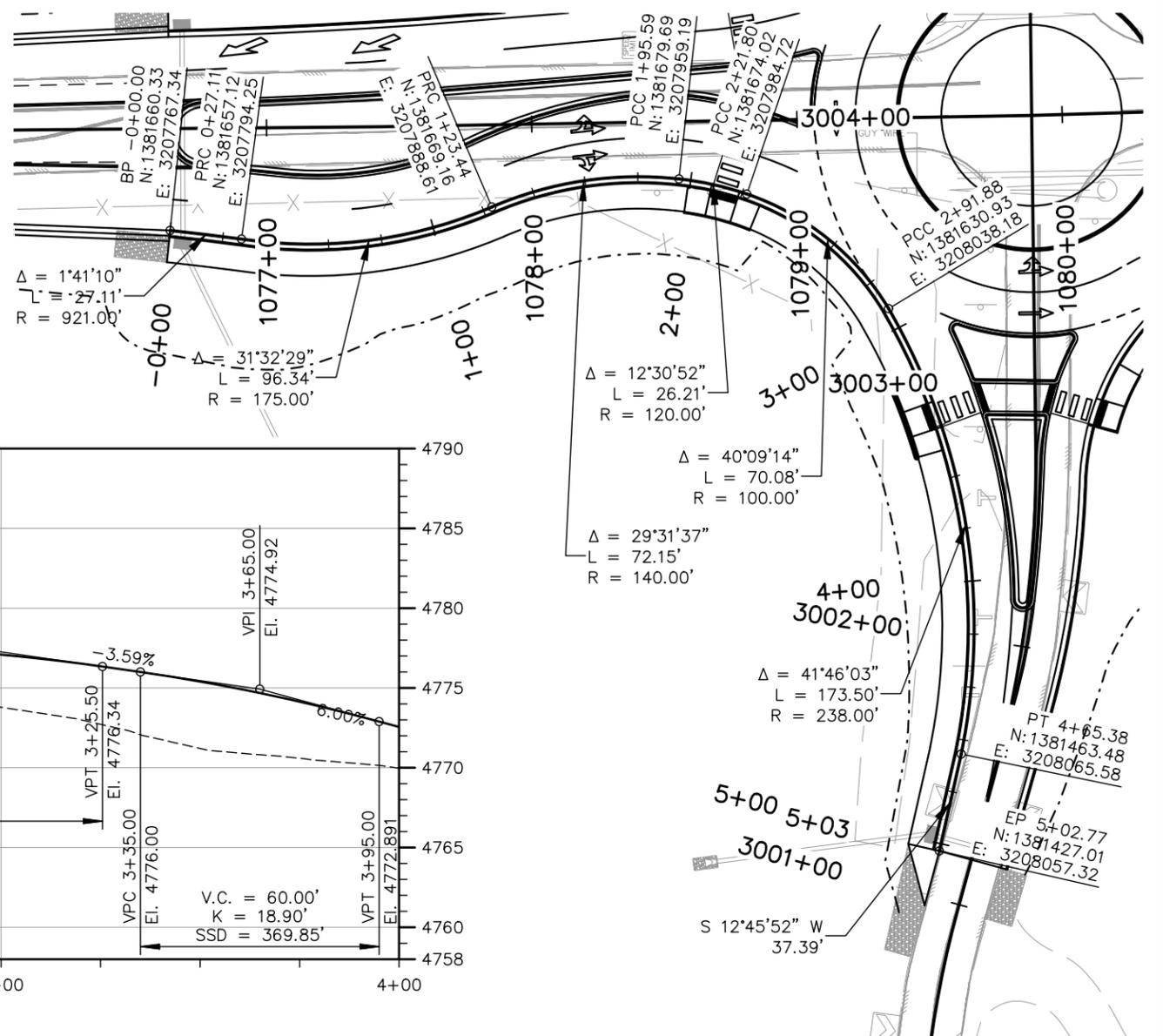
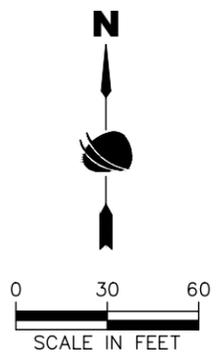
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No Revisions:
Revised:
Void:

**37TH STREET WIDENING PHASE 1
 ROUNDABOUT GUTTER
 PLAN AND PROFILES**

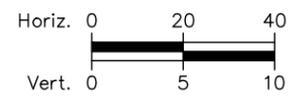
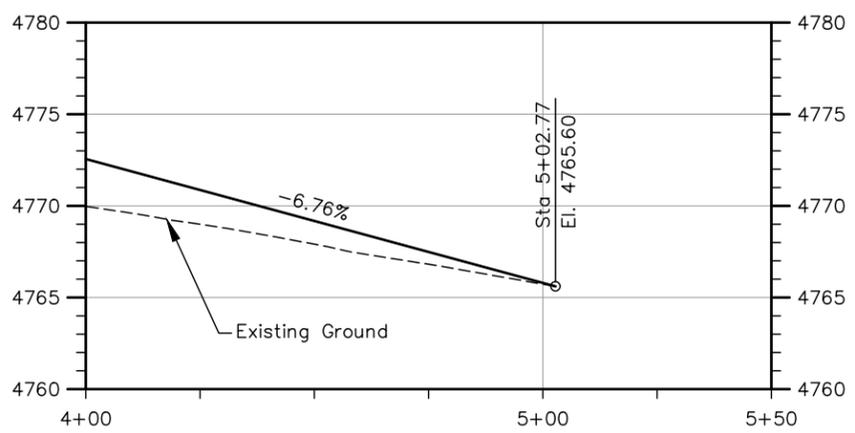
Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: GUTTER

Structure Numbers
 Subset Sheets: 2 of 4

Project No.
AQC M415-021
Drawing Number GUT-002
Sheet Number 53



SOUTHWEST LIP OF GUTTER PROFILE



SOUTHWEST LIP OF GUTTER PROFILE

Plot Date: 11/21/2022 9:11 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\33001 LEWIS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\1\802-SHEET FILES\ROUNDABOUT\GUT-001 GUTTER PLAN & PROFILE.DWG

Print Date: 11/21/2022	
File Name: GUT-001 GUTTER PLAN & PROFILE.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

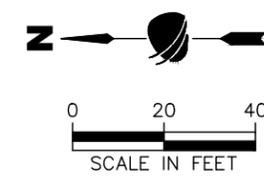
Sheet Revisions		
Date:	Comments	Init.



As Constructed
No Revisions:
Revised:
Void:

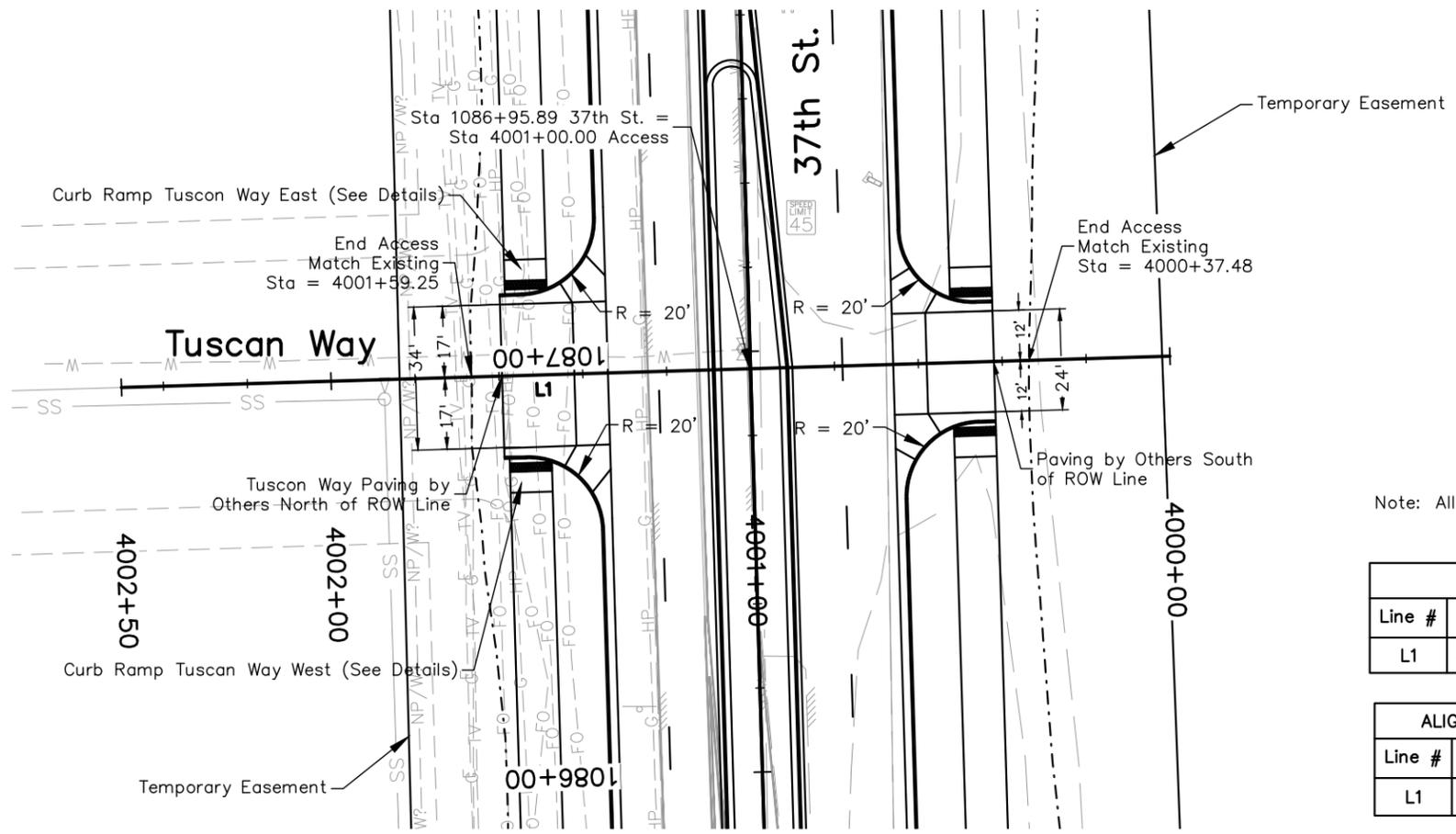
37TH STREET WIDENING PHASE 1 ROUNDBOUT GUTTER PLAN AND PROFILES	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: GUTTER	Subset Sheets: 4 of 4

Project No.
AQC M415-021
Drawing Number GUT-004
Sheet Number 55



ROAD APPROACH (Tuscan Way)
1086+95.89 LT.
(W = 34', R = 20')

ROAD APPROACH
1086+95.89 RT.
(W = 24', R = 20')



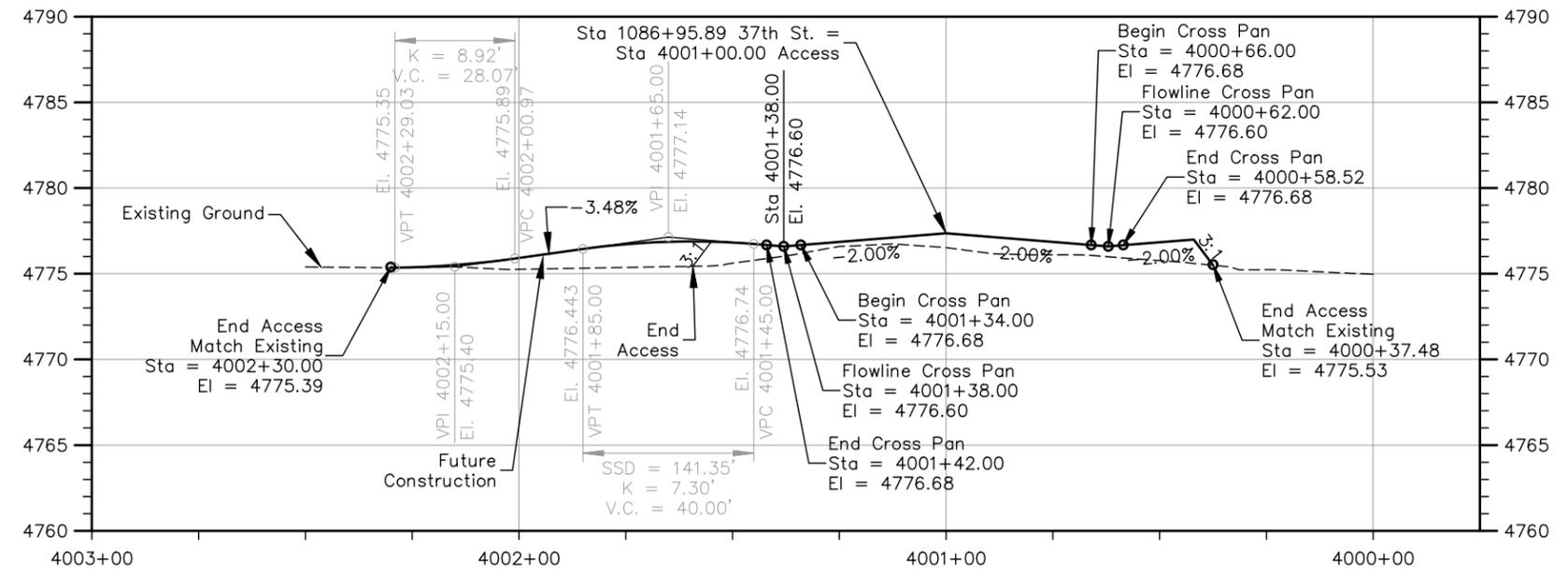
Note: All curb and gutter call outs are to FL of gutter.

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4000+00.00	1381624.71	3208802.16

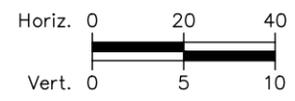
ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	250.00'	N1° 42' 18"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L1	4002+50.00	1381874.59	3208794.72

PLAN VIEW ACCESS STA 1086+95.89 LT. & RT.



- HMA SX (100) (PG 64-28): 12 TONS
- HMA S (75) (PG 64-22): 24 TONS
- Emulsified Asphalt (Slow-Setting): 11 GAL
- Concrete Pavement (8 Inch): 38 SY
- Aggregate Base Course (Class 6): 24 CY
- Concrete Curb Ramp: 46 SY
- Gutter Type 2 (8 Foot): 58 LF



PROFILE VIEW ACCESS STA 1086+95.89 LT. & RT.



Print Date: 11/21/2022
 File Name: RA-001 ROAD APPROACH.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted

RockSol Consulting Group, Inc.
 12076 Grant Street
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Sheet Revisions		
Date	Comments	Initials

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 No Revisions:
 Revised:
 Void:

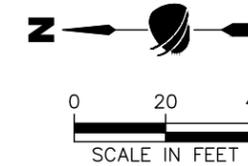
37TH STREET WIDENING PHASE 1 ROAD APPROACH 1086+95.89 LT. & RT.	
Designer: T. Tuttle	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: APPROACH	Subset Sheets: 1 of 2

Project No.
AQC M415-021
Drawing Number RA-001
Sheet Number 56

Plot Date: 11/21/2022 9:12 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

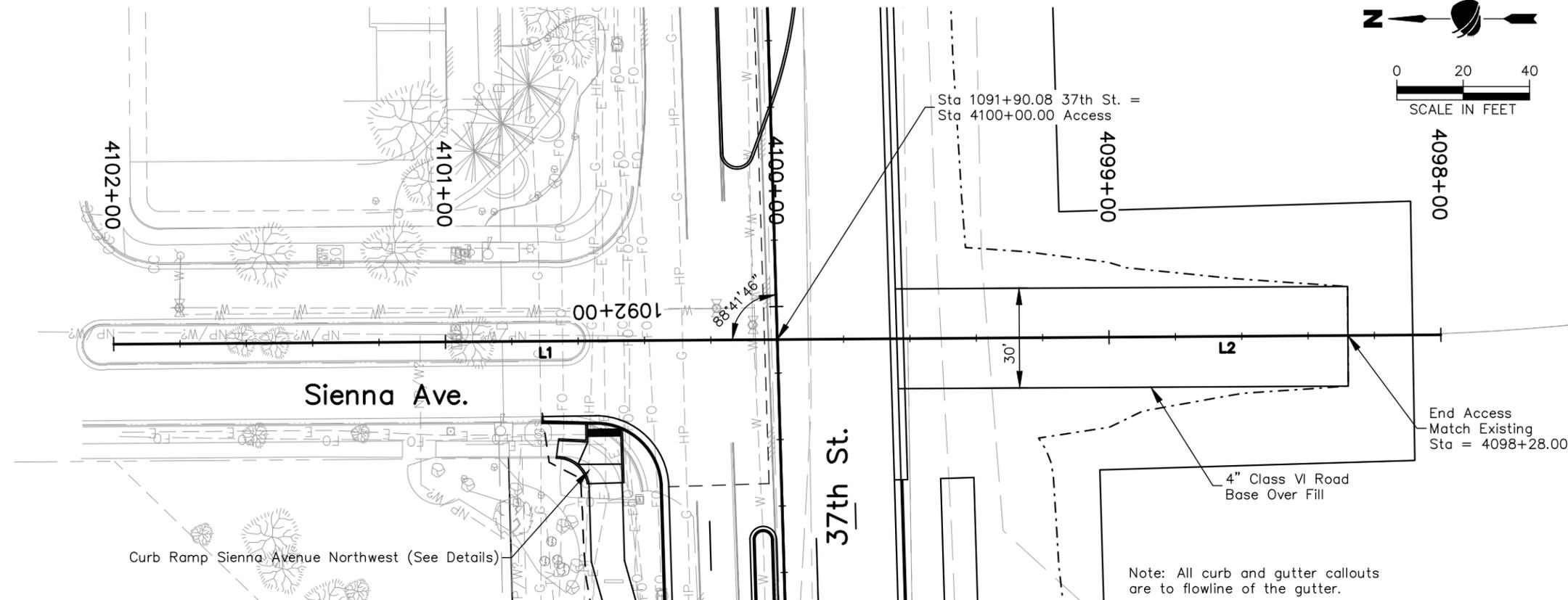
ROAD APPROACH (Agricultural-Driveway)
1091+90.08 RT.
(W = 30')



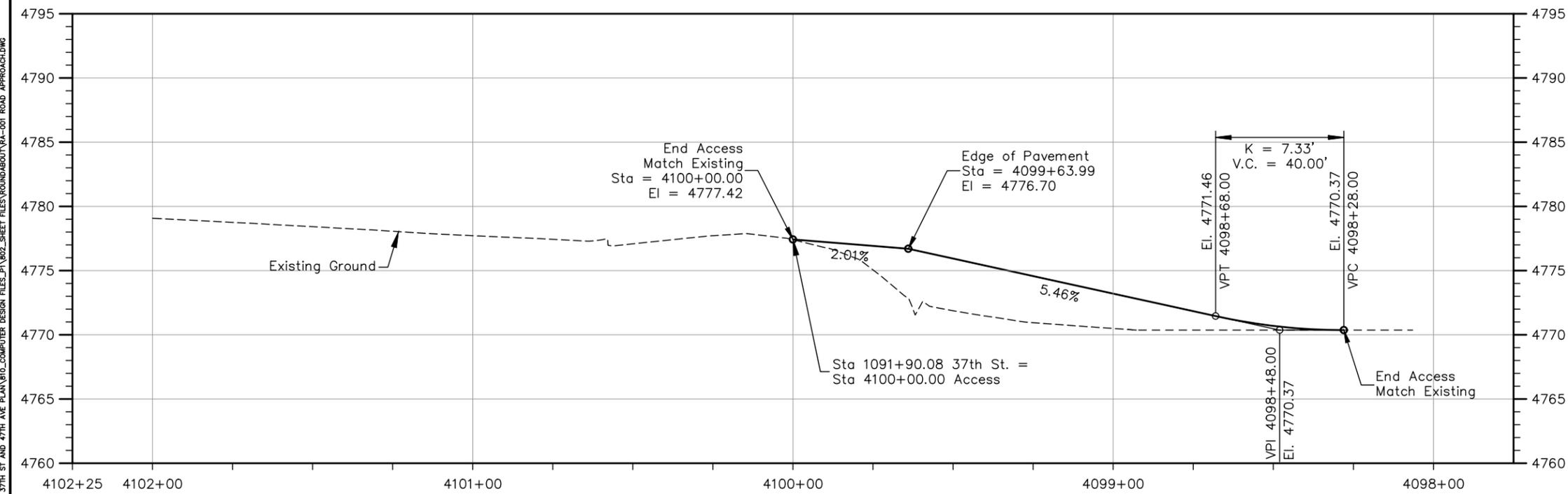
ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4098+00.00	1381739.37	3209293.16

ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	200.00'	N0° 24' 18"W
L2	200.00'	N0° 24' 18"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L2	4100+00.00	1381739.37	3209293.16



PLAN VIEW ACCESS STA 1091+90.08 RT.



PROFILE VIEW ACCESS STA 1091+90.08 RT.



Aggregate Base Course (Class 6): 53 CY



Print Date: 11/21/2022
 File Name: RA-001 ROAD APPROACH.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted
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Sheet Revisions		
Date	Comments	Initials

As Constructed
 No Revisions:
 Revised:
 Void:

**37TH STREET WIDENING PHASE 1
ROAD APPROACH
1091+90.08 RT.**

Designer: T. Tuttle
 Detailer: J. Jensen
 Sheet Subset: APPROACH

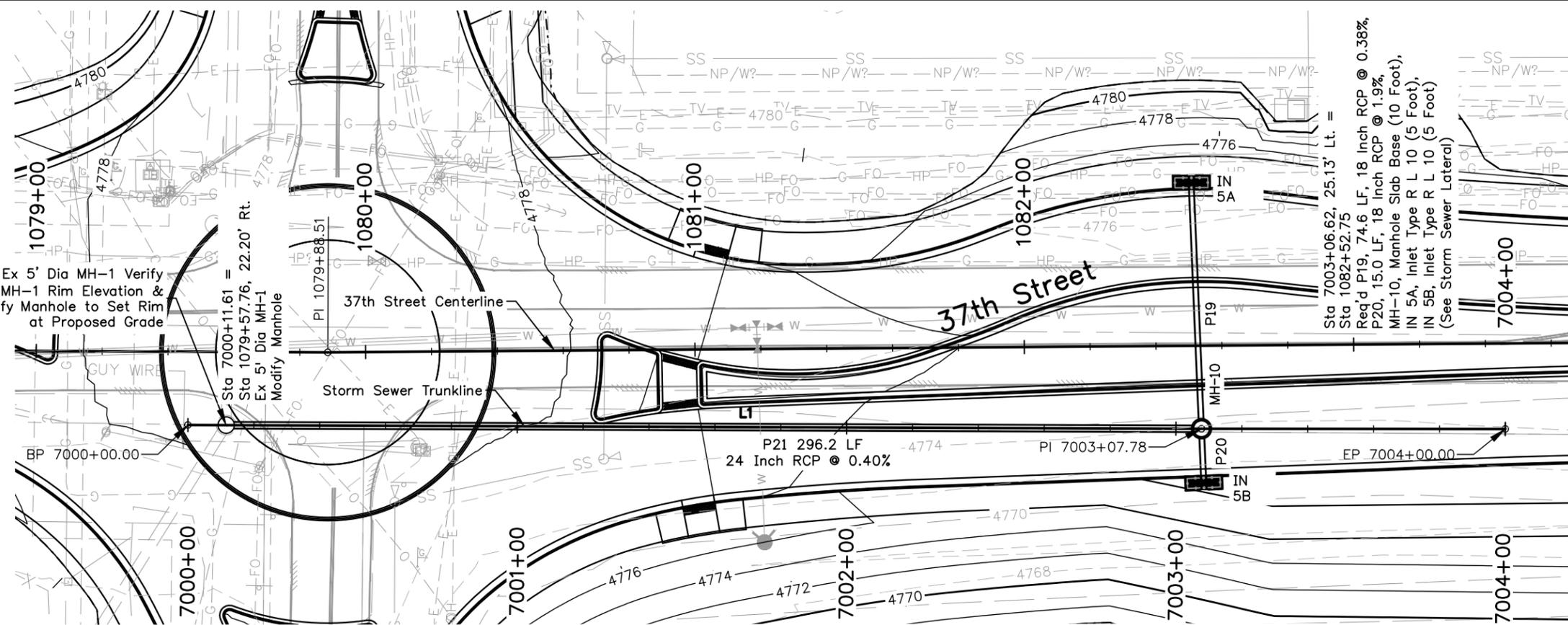
Project No.
AQC M415-021

Drawing Number RA-002
 Sheet Number 57

Plot Date: 11/21/2022 9:12 AM Plotted By: Sarah Hemler
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Plot Date: 11/21/2022 9:13 AM Plotted By: Sarah Hemler
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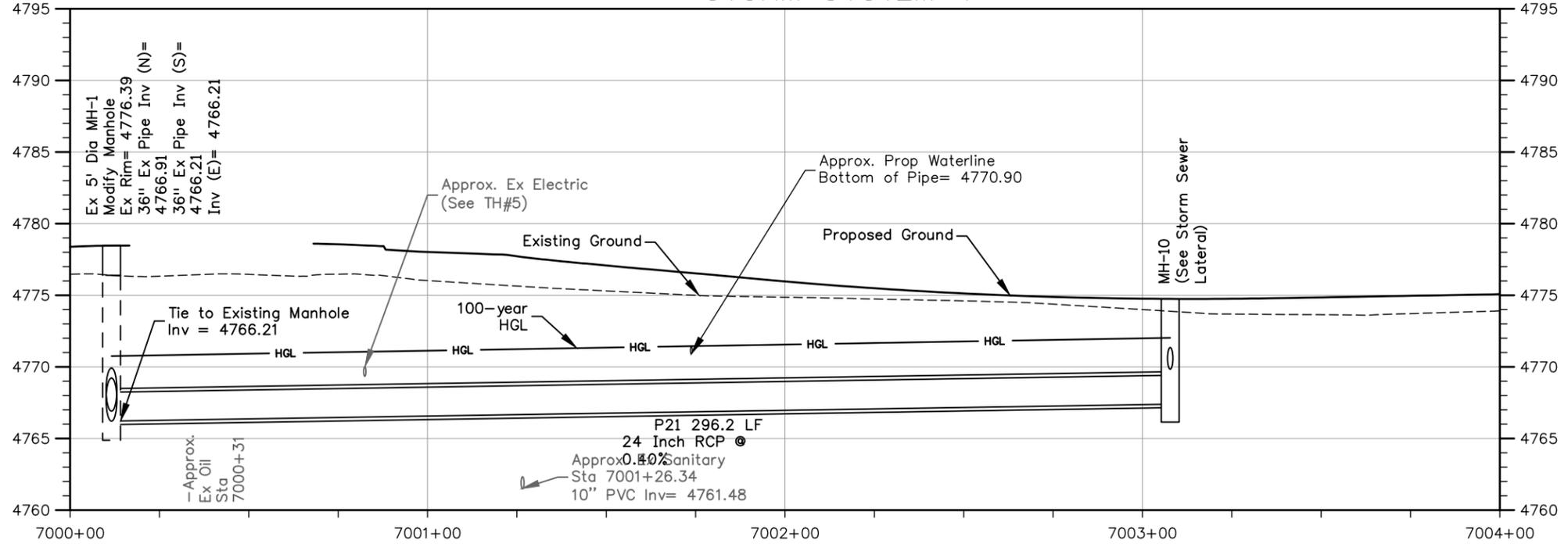


Tie P21 to Ex 5' Dia MH-1 Verify
 Ex 5' Dia MH-1 Rim Elevation &
 Modify Manhole to Set Rim
 at Proposed Grade

Sta 7000+11.61 =
 Sta 1079+57.76, 22.20' Rt.
 Ex 5' Dia MH-1
 Modify Manhole
 PI 1079+88.51

Sta 7003+06.62, 25.13' Lt. =
 Sta 1082+52.75
 Reg'd P19, 74.6 LF, 18 Inch RCP @ 0.38%,
 P20, 15.0 LF, 18 Inch RCP @ 1.9%,
 MH-10, Manhole Slab Base (10 Foot),
 IN 5A, Inlet Type R L 10 (5 Foot),
 IN 5B, Inlet Type R L 10 (5 Foot)
 (See Storm Sewer Lateral)

**STA 7000+00 to STA 7004+00 STORM SEWER PLAN TRUNKLINE
STORM SYSTEM 4**

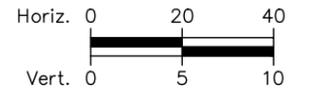
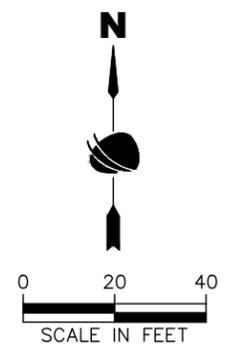


STA 7000+00 to STA 7004+00 STORM SEWER PROFILE TRUNKLINE

STORM SEWER TRUNKLINE

ALIGNMENT LINE TABLE		
Line No.	Start Northing	Start Easting
L1	1381680.67	3208050.15

ALIGNMENT LINE TABLE		
Line No.	Length	Direction
L1	307.78	N88° 56' 21"E



Print Date: 11/21/2022
 File Name: STRM P1-001 STORM SEWER PLAN & PROFILE.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted

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Sheet Revisions		
Date	Comments	Initials



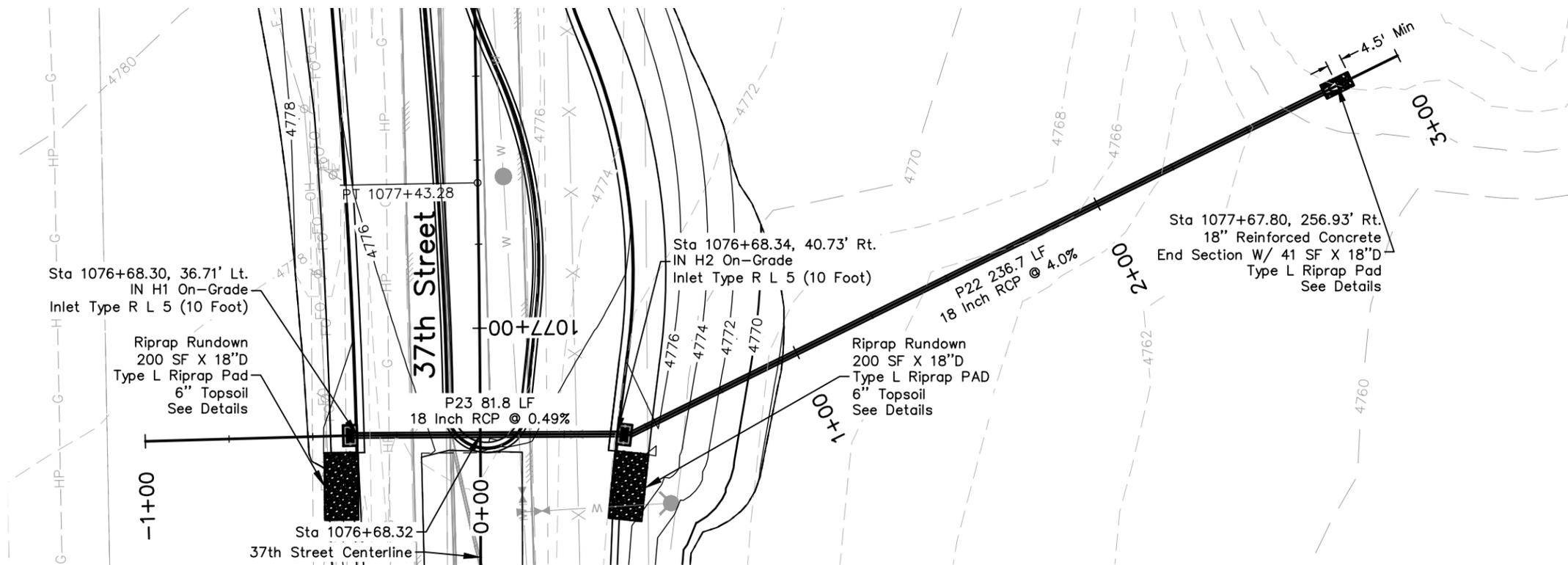
As Constructed
 No Revisions:
 Revised:
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**37TH STREET WIDENING PHASE 1
STORM SEWER PLAN & PROFILE
TRUNKLINE**

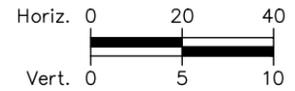
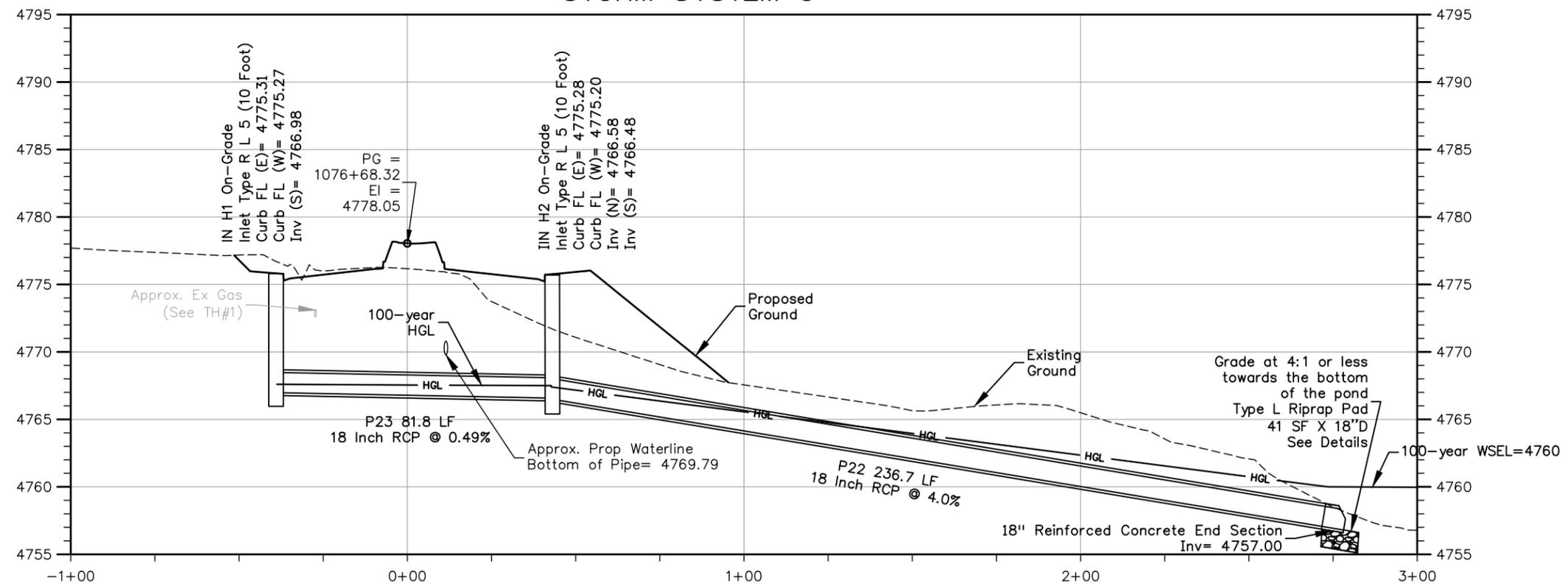
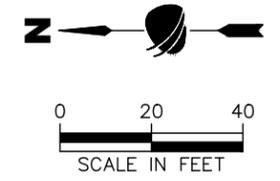
Designer: E. Schneider	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: STRM P&P	Subset Sheets: 1 of 4

Project No.
 AQC M415-021
 Drawing Number STRM-001
 Sheet Number 58

ADVERTISEMENT SET 12/1/2022



**STA 1076+68.32 STORM SEWER PLAN LATERAL
STORM SYSTEM 5**



STA 1076+68.32 STORM SEWER PROFILE LATERAL



Plot Date: 11/21/2022 9:15 AM Plotted By: Sarah Hamler
 C:\P-PROJECTS\ACTIVE PROJECTS\33001\LEWIS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\11\802-SHEET FILES\ROUNDABOUT\STRM P1-005 STORM SEWER PLAN & PROFILE_LAT.DWG

Print Date: 11/21/2022
 File Name: STRM P1-005 STORM SEWER PLAN & PROFILE_LAT.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted

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Sheet Revisions		
Date	Comments	Initials

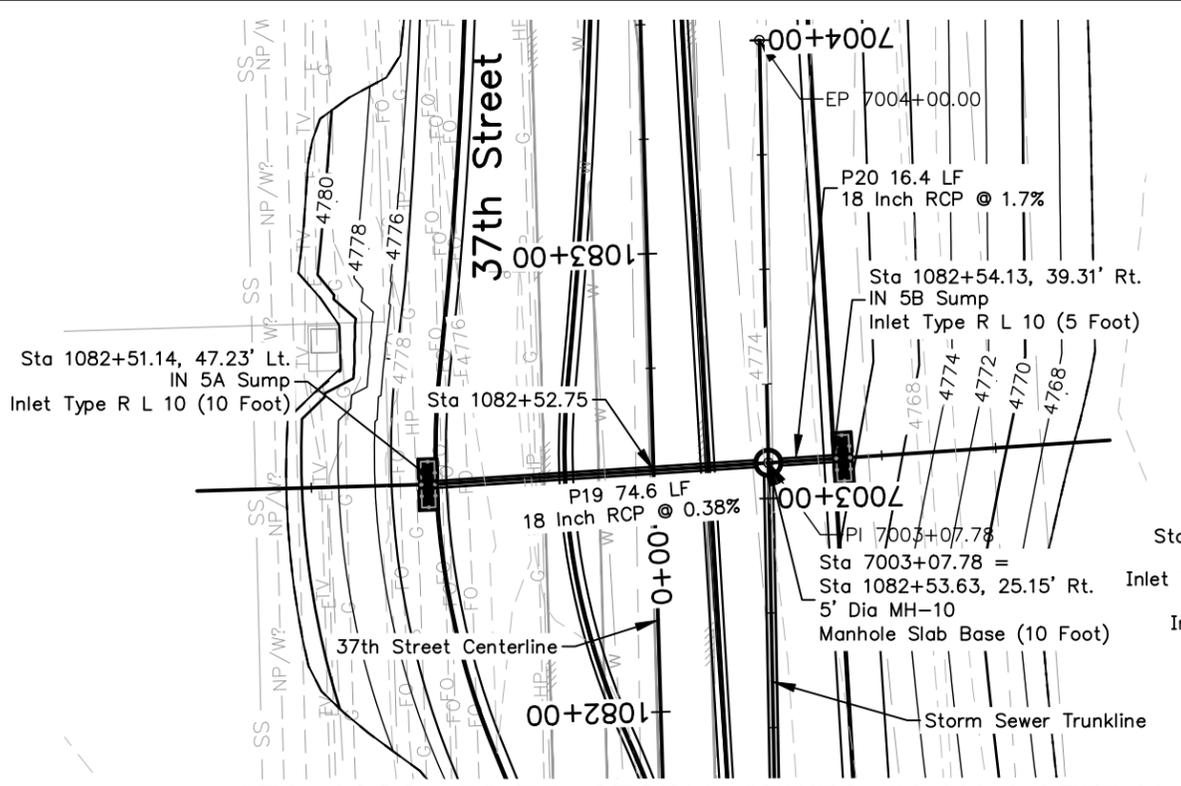


As Constructed
No Revisions:
Revised:
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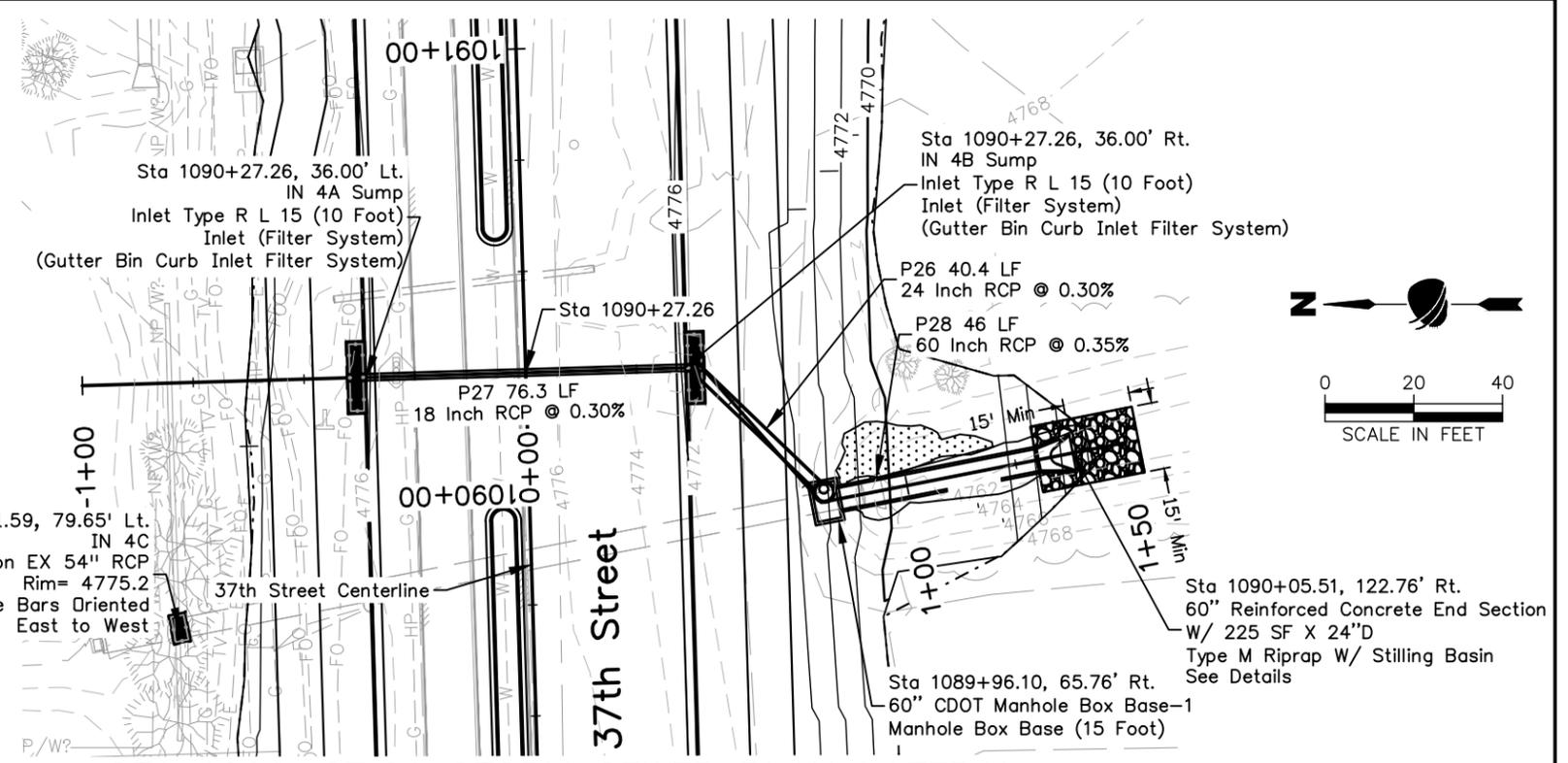
37TH STREET WIDENING PHASE 1 STORM SEWER PLAN & PROFILE LATERAL	
Designer: E. Schneider	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: STRM P&P	Subset Sheets: 2 of 4

Project No.
AQC M415-021
Drawing Number STRM-002
Sheet Number 59

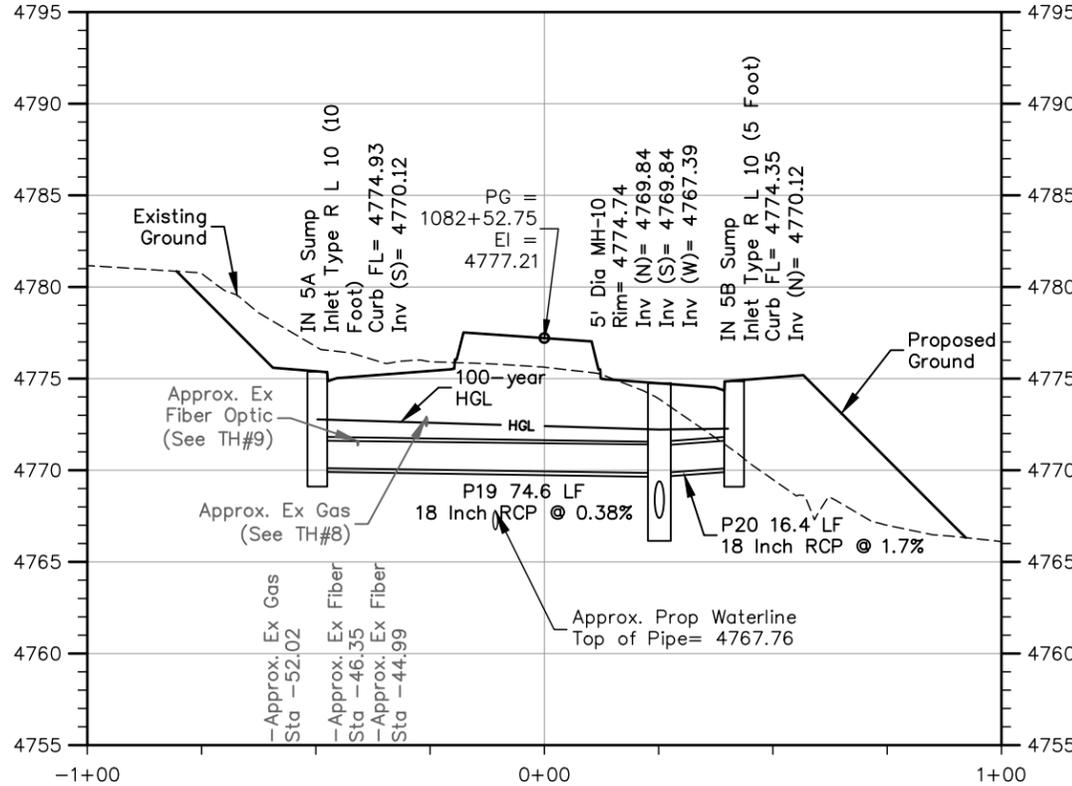
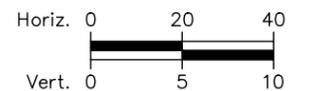
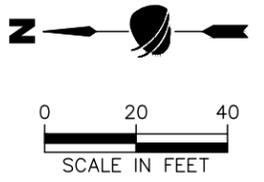
ADVERTISEMENT SET 12/1/2022



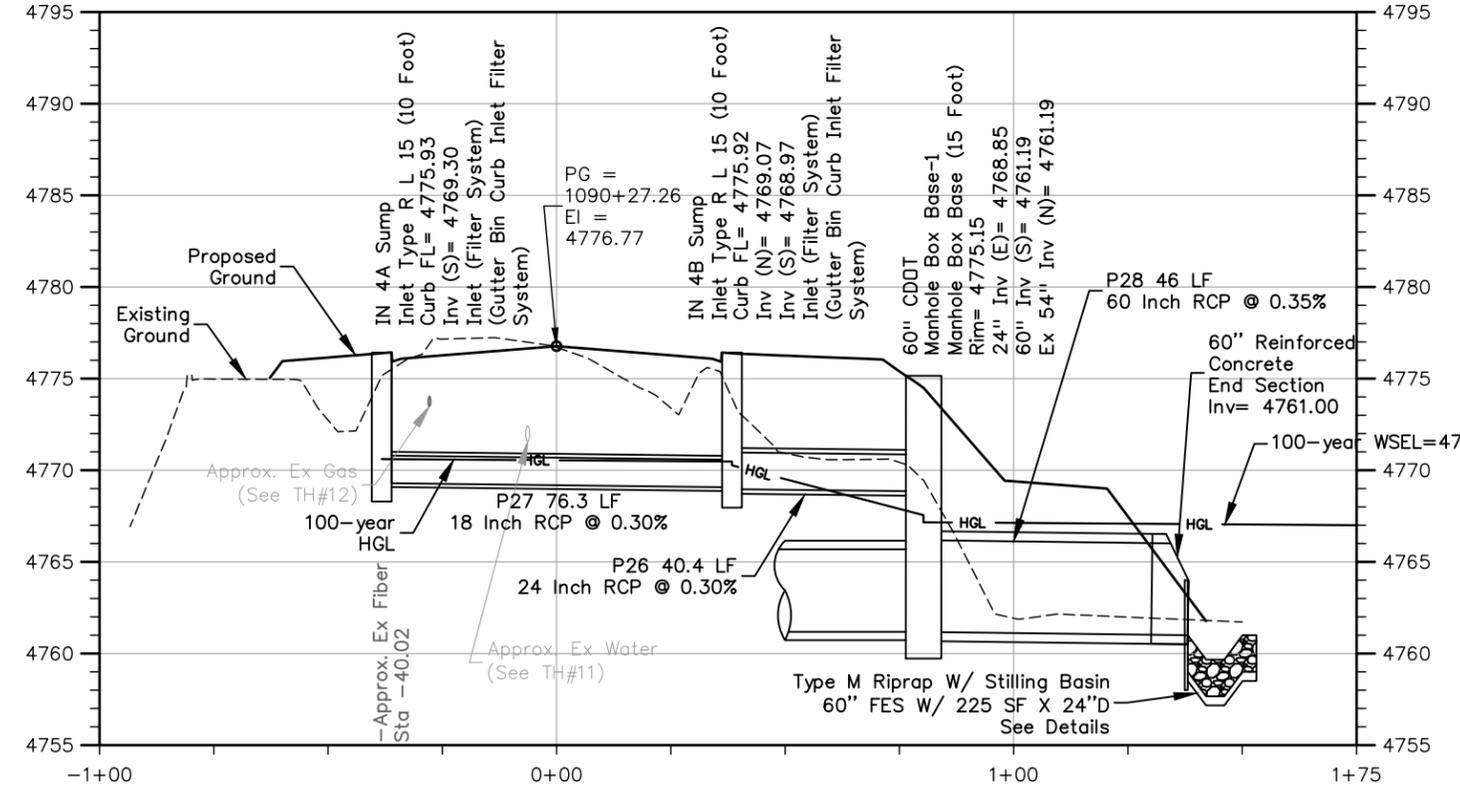
**STA 1082+52.75 STORM SEWER PLAN LATERAL
STORM SYSTEM 4 LATERAL**



**STA 1090+27.26 STORM SEWER PLAN LATERAL
STORM SYSTEM 3**



STA 1082+52.75 STORM SEWER PROFILE LATERAL



STA 1090+27.26 STORM SEWER PROFILE LATERAL



Plot Date: 11/21/2022 9:15 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\33001_LEWIS 37TH ST AND 47TH AVE PLAN\10_COMPUTER DESIGN FILES\1\002_SHEET FILES\ROUNDABOUT\STRM P1-005 STORM SEWER PLAN & PROFILE_LAT.DWG

Print Date: 11/21/2022
 File Name: STRM P1-005 STORM SEWER PLAN & PROFILE_LAT.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted

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Sheet Revisions		
Date	Comments	Initials

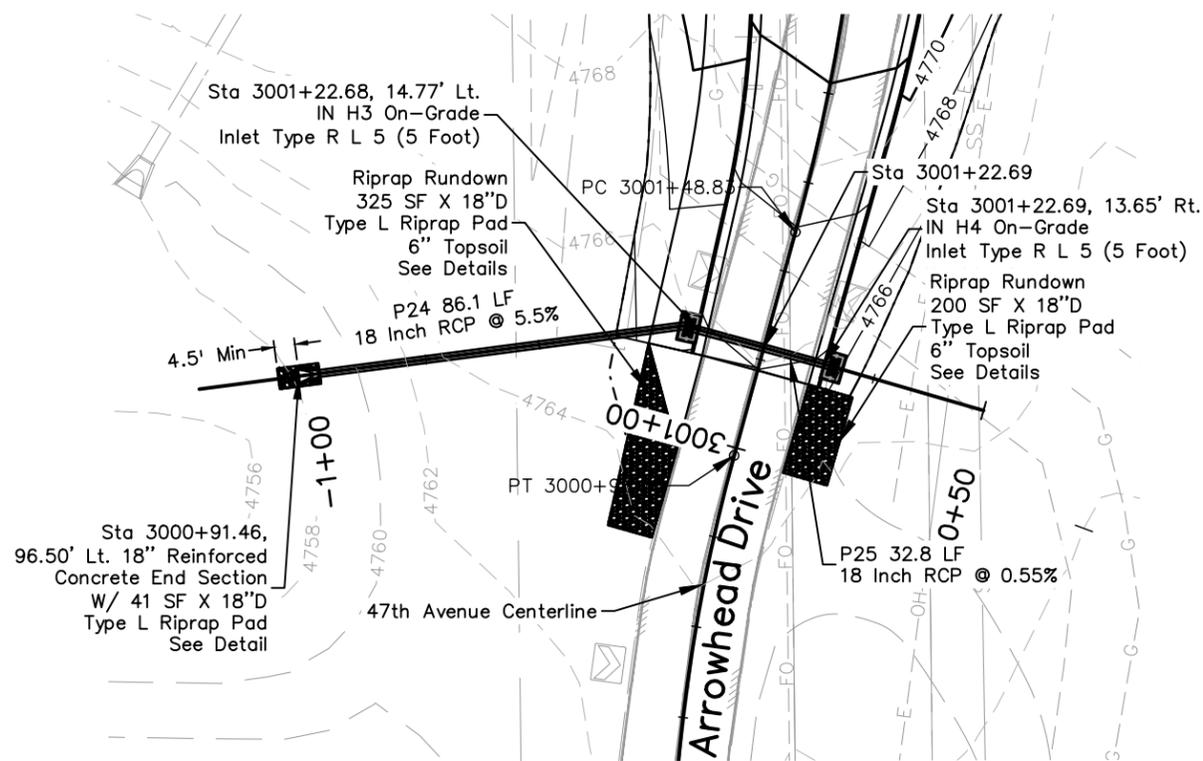


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No Revisions:
Revised:
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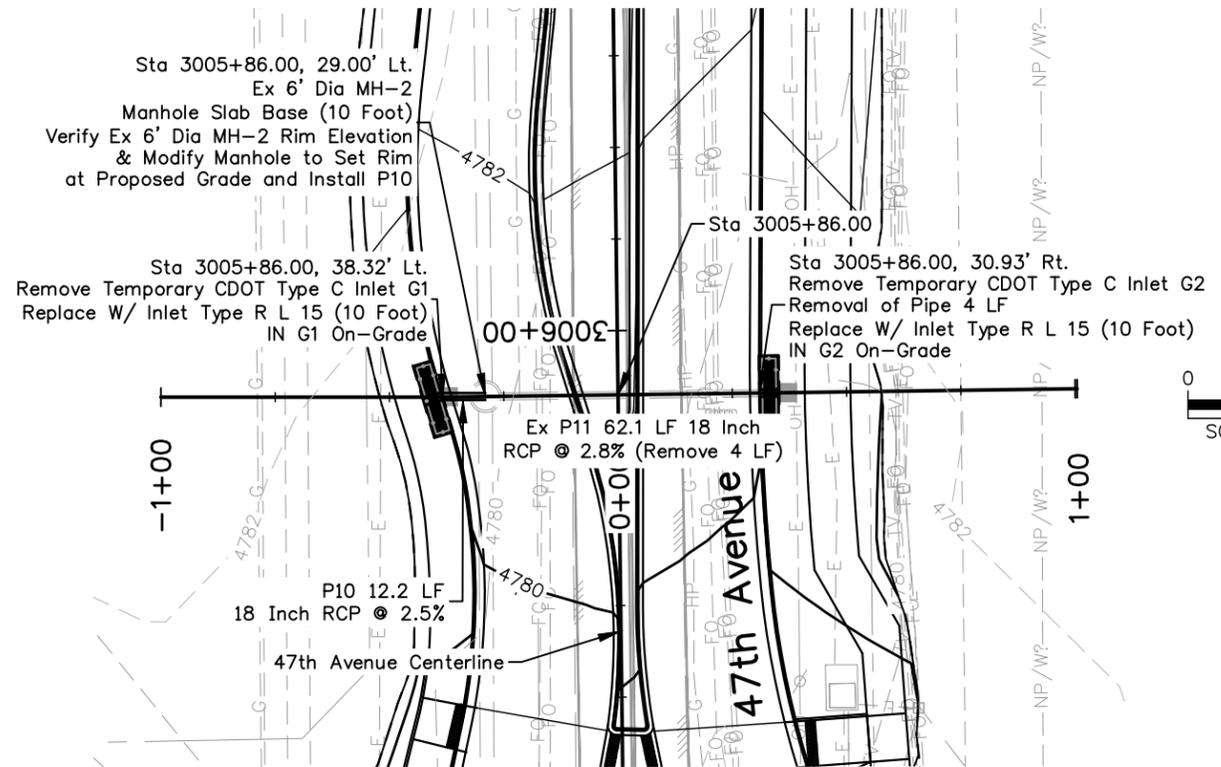
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Designer: E. Schneider	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: STRM P&P	Subset Sheets: 3 of 4

Project No.
AQC M415-021
Drawing Number STRM-003
Sheet Number 60

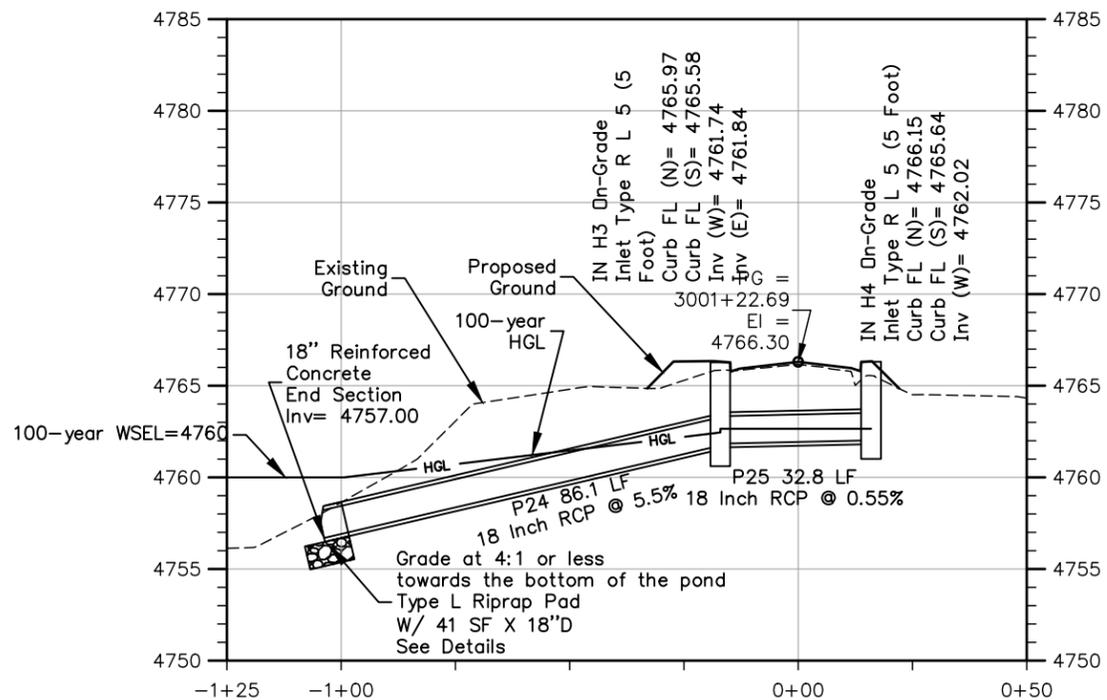
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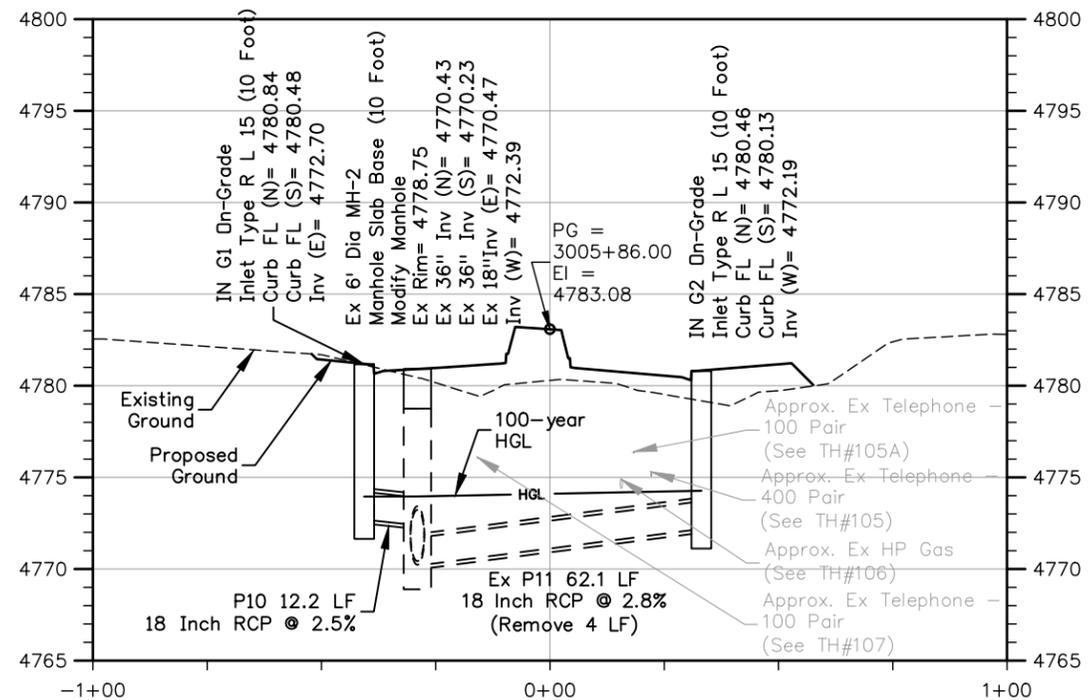
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STORM SYSTEM 6**



**STA 3005+86.00 STORM SEWER PLAN LATERAL
STORM SYSTEM 7**



STA 3001+22.69 STORM SEWER PROFILE LATERAL



STA 3005+86.00 STORM SEWER PROFILE LATERAL

Plot Date: 11/21/2022 9:15 AM Plotted By: Sarah Hemmer
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Print Date: 11/21/2022
 File Name: STRM P1-005 STORM SEWER PLAN & PROFILE_LAT.DWG
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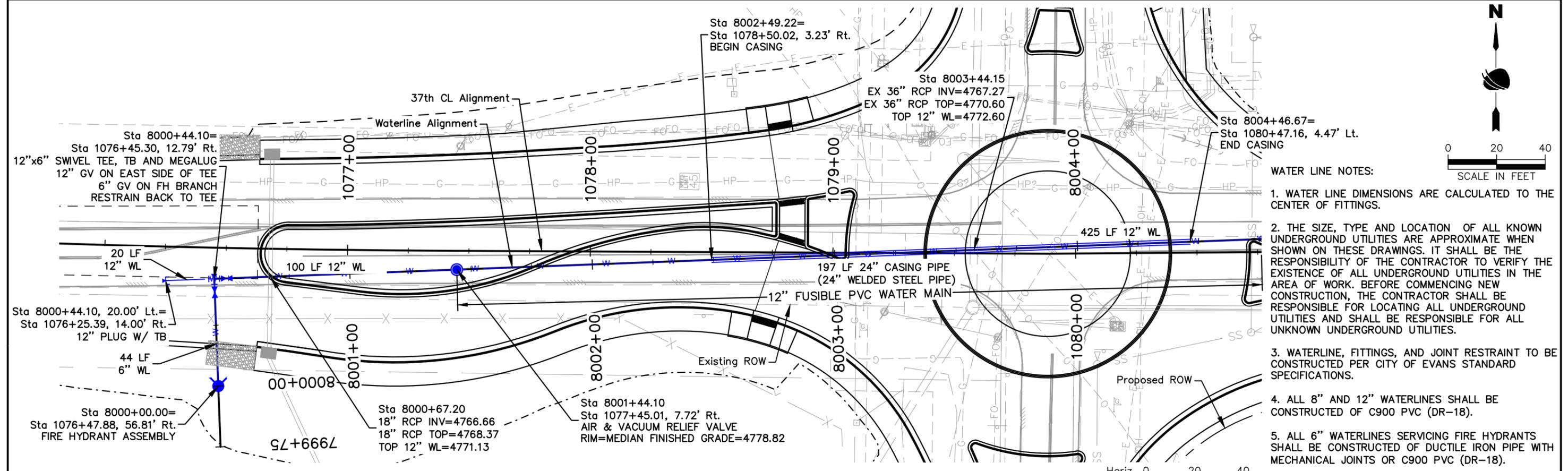
**37TH STREET WIDENING PHASE 1
STORM SEWER PLAN & PROFILE
LATERAL**

Designer: E. Schneider	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: STRM P&P	Subset Sheets: 4 of 4

Project No.
AQC M415-021
Drawing Number STRM-004
Sheet Number 61

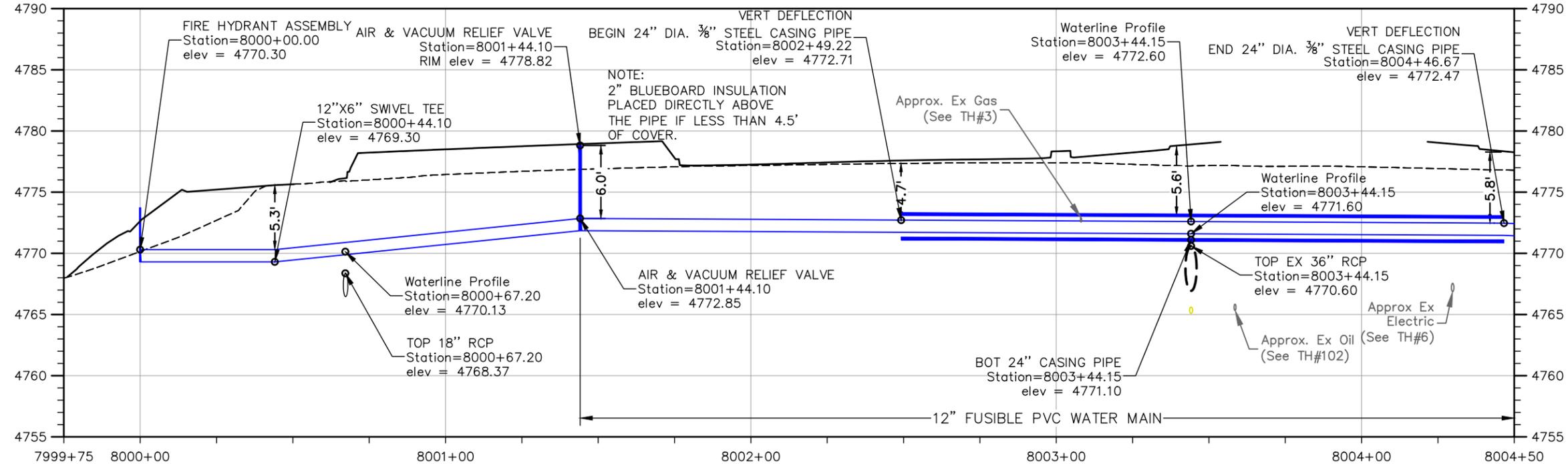


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STA 7999+75 to STA 8004+50 WATERLINE PLAN

- WATER LINE NOTES:**
1. WATER LINE DIMENSIONS ARE CALCULATED TO THE CENTER OF FITTINGS.
 2. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
 3. WATERLINE, FITTINGS, AND JOINT RESTRAINT TO BE CONSTRUCTED PER CITY OF EVANS STANDARD SPECIFICATIONS.
 4. ALL 8" AND 12" WATERLINES SHALL BE CONSTRUCTED OF C900 PVC (DR-18).
 5. ALL 6" WATERLINES SERVICING FIRE HYDRANTS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR C900 PVC (DR-18).
 6. MECHANICAL JOINT RESTRAINT DEVICES FOR PVC PIPE SHALL BE EITHER MEGALUG 2000 PV SERIES OR APPROVED EQUAL AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 7. ALL PIPE SHALL BE INSTALLED WITH A MINIMUM OF FOUR (4) FEET SIX (6) INCHES OF COVER FROM FINISHED GRADE OF STREET TO THE TOP OF THE PIPE BARREL. 2" BLUEBOARD INSULATION SHALL BE PLACED DIRECTLY ABOVE THE PIPE IF LESS THAN FOUR (4) FEET SIX (6) INCHES OF COVER.
 8. FITTINGS, TEES, THRUST BLOCKS AND MEGALUGS ARE INCIDENTAL TO THE WATER MAIN.
 9. BLUEBOARD INSULATION IS INCIDENTAL TO THE PROJECT.
 10. TRACING WIRE, WATER MAIN CP TEST STATIONS, AND CATHODIC PROTECTION SHALL BE INCIDENTAL TO THE WATER MAIN. TRACER WIRE SHALL BE INSTALLED ON ALL PVC WATERLINES.
 11. CASING PIPE SPACERS SHALL BE CONSTRUCTED OF STAINLESS STEEL WITH POLYMER OR PLASTIC RUNNERS. CASING PIPE SPACERS AND END SEALS ARE INCIDENTAL TO THE WATER MAIN.
 12. CITY OF EVANS WILL SUPPLY THE PVC PIPE AND COST OF WATER MAIN INCLUDES INSTALLATION AND INCIDENTAL ITEMS ONLY.



STA 7999+75 to STA 8004+50 WATERLINE PROFILE

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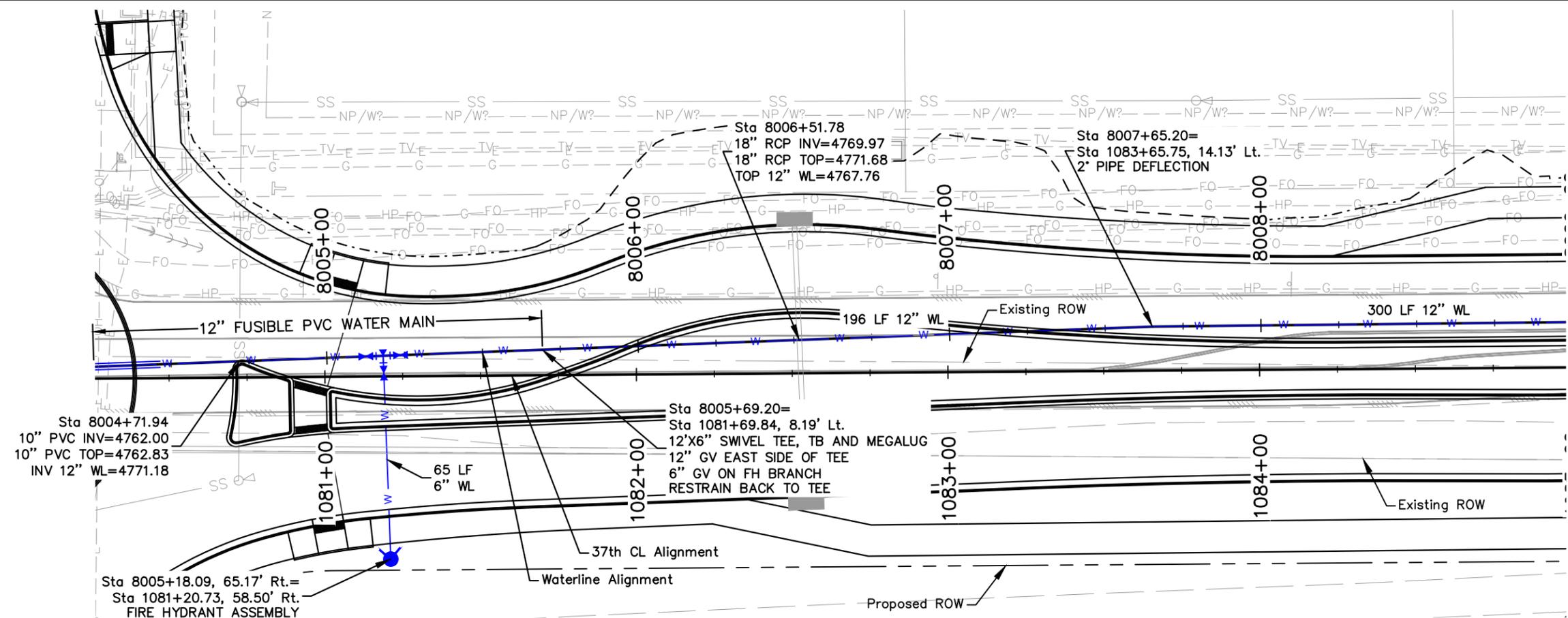
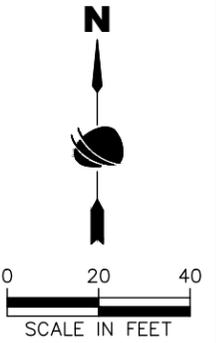
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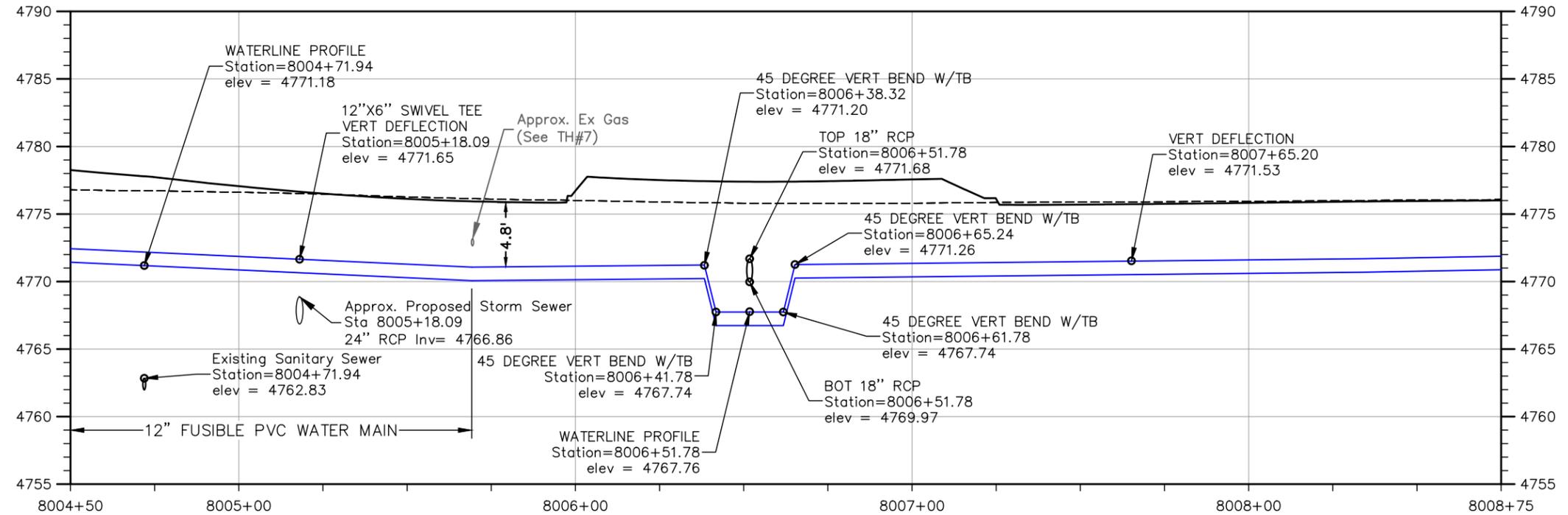
37TH STREET WIDENING PHASE 1 WATERLINE PLAN & PROFILE	
Designer: E. Schneider	Structure Numbers
Detailer: J. Lofton	
Sheet Subset: WTR P&P	Subset Sheets: 1 of 3

Project No.
AQC M415-021
Drawing Number WTR-001
Sheet Number 62

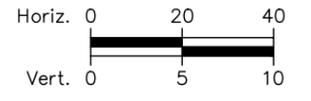




STA 8004+50 to STA 8008+75 WATERLINE PLAN



STA 8004+50 to STA 8008+75 WATERLINE PROFILE



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File Name: WTR P1-001 WATERLINE PLAN & PROFILE.DWG	
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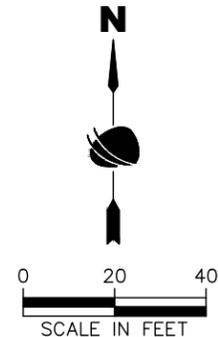
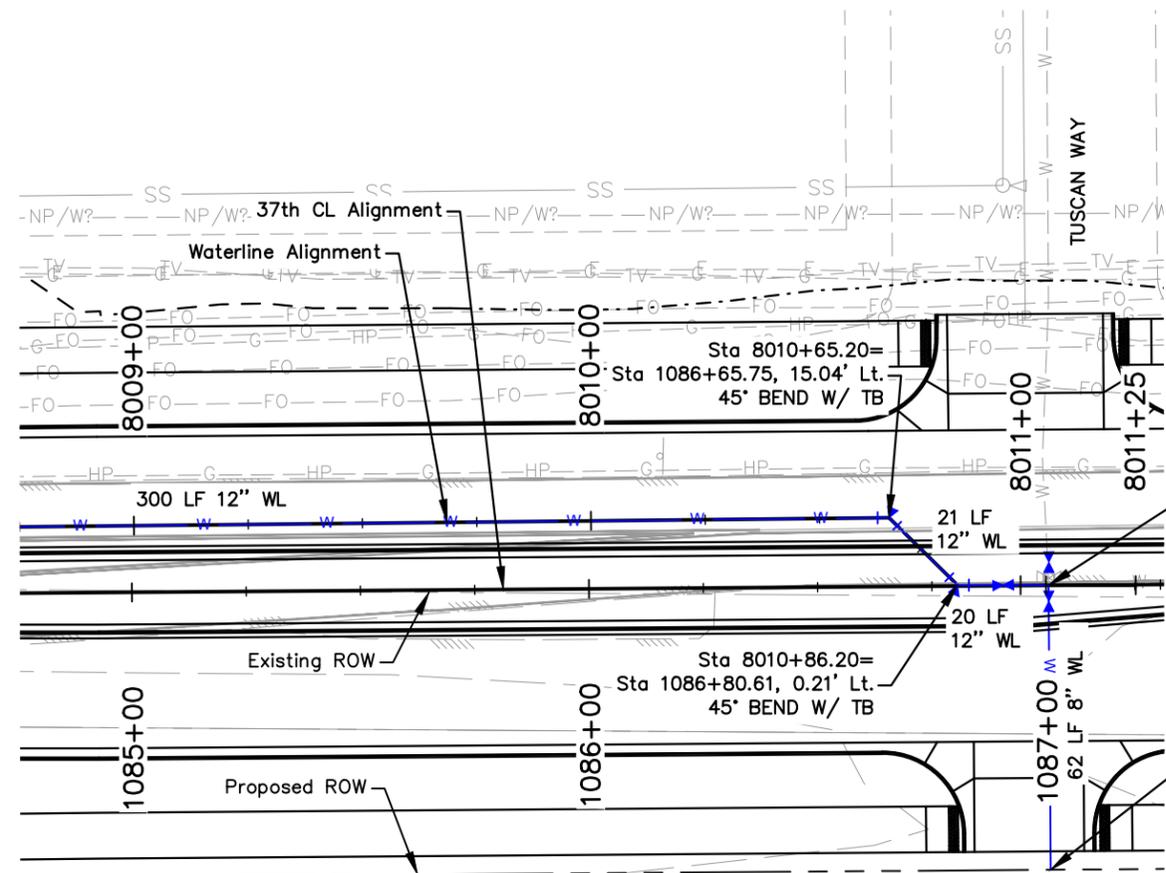
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Date	Comments	Initials



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Void:

37TH STREET WIDENING PHASE 1 WATERLINE PLAN & PROFILE	
Designer: E. Schneider	Structure Numbers
Detailer: J. Lofton	
Sheet Subset: WTR P&P	Subset Sheets: 2 of 3

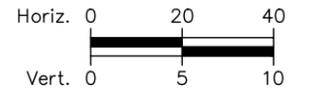
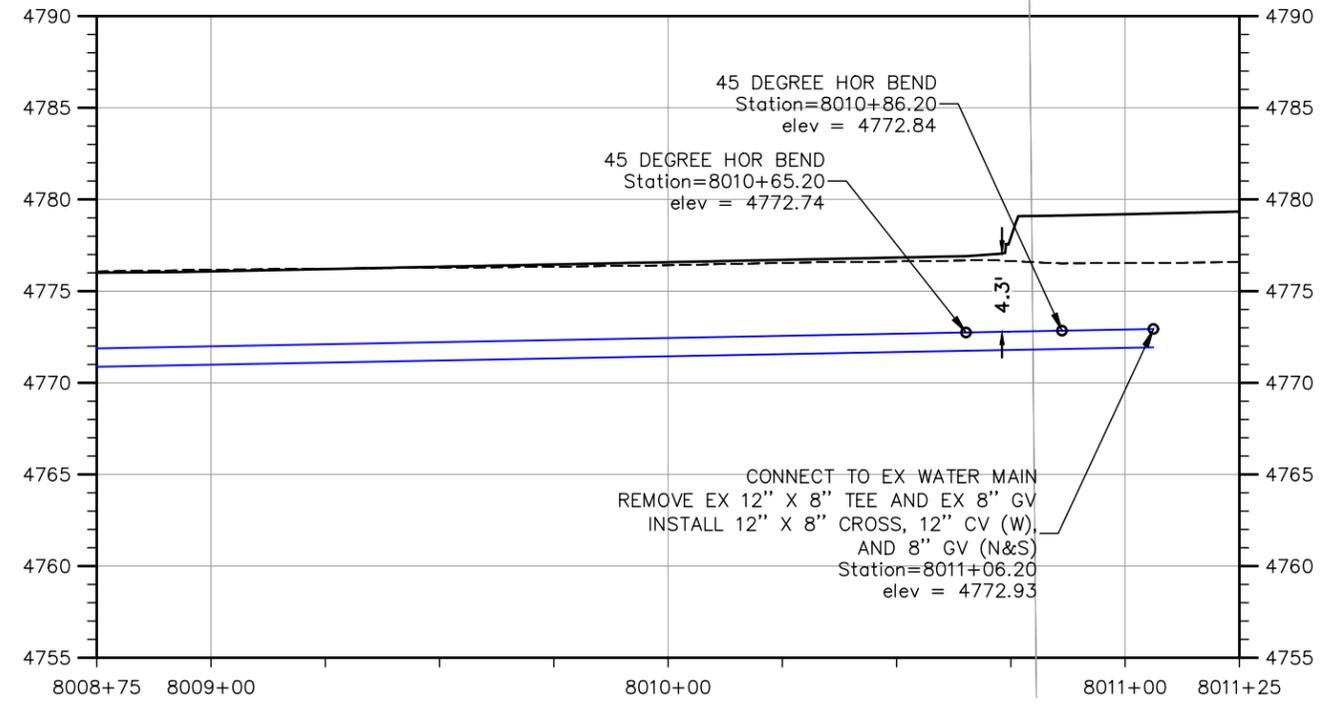
Project No.
AQC M415-021
Drawing Number WTR-002
Sheet Number 63



Sta 8011+06.20=
Sta 1087+00.60, 0.03' Lt.
CONNECT TO EX WATER MAIN
REMOVE EX 12" X 8" TEE AND EX 8" GV
INSTALL 12" X 8" CROSS, 12" GV (W),
AND 8" GV (N&S)

Sta 8011+06.61, 62.10' Rt.=
Sta 1087+00.52, 62.06' Rt.
8" PLUG, TB AND
BLOWOFF ASSEMBLY

STA 8008+75 to STA 8011+25 WATERLINE PLAN



STA 8008+75 to STA 8011+25 WATERLINE PROFILE



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Print Date: 11/21/2022	
File Name: WTR P1-001 WATERLINE PLAN & PROFILE.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted

Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 WATERLINE PLAN & PROFILE	
Designer: E. Schneider	Structure Numbers
Detailer: J. Lofton	
Sheet Subset: WTR P&P	Subset Sheets: 3 of 3

Project No.
AQC M415-021
Drawing Number WTR-003
Sheet Number 64

ADVERTISEMENT SET 12/1/2022

PROJECT LIST OF UTILITY CONTACTS

NO.	COMPANY	ABBREVIATION	UTILITY TYPE	CONTACT NAME	EMAIL	PHONE
1	Atmos Energy	ATMOS	Gas	Jerry Adams	jerry.adams@atmosenergy.com	970-304-2075
2	CenturyLink	CTL	Fiber Optic	Gary Crispe	gcrispe@terratechllc.net	303-995-1456
3	City of Evans	City of Evans	Water and Sewer	Leon Blasco	lblasco@evanscolorado.gov	970-371-9089
4	DCP Midstream	DCP	Gas	Ivan Ansel	iansel@dcpmidstream.cpm	970-539-1806
5	Level 3 Communications	Level 3	Fiber Optic	Thomas Longan	thomas.longan@centurylink.com	720-878-6311
6	Noble Energy Inc.	Noble	Gas	TJ Mansfield	tj.mansfield@nblenergy.com	970-631-2343
7	Noble Midstream Services / Black Diamond	Noble	Oil and Gas	TJ Mansfield	tj.mansfield@nblenergy.com	970-631-2343
8	XCEL Energy Distribution	XCEL	Overhead and Underground Electric	Shayla Montano	shayla.a.montano@xcelenergy.com	970-381-9734
9	XCEL Energy Transmission	XCEL	Overhead and Underground Electric	William Braasch	william.braasch@xcelenergy.com	303-571-7082

UTILITY GENERAL NOTES

- UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS' DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." LOCATION OF EXISTING UTILITIES IS DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION AND REPRESENT CONDITIONS AT THE TIME OF DATA COLLECTION. THESE PLANS DO NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES AND PROCEDURES DURING EXCAVATION. PRIOR TO CONSTRUCTION, CONTRACTOR VERIFICATION OF LOCATION AND DEPTHS OF UTILITIES FOR DAMAGE PREVENTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULING. SHOULD ANY CONFLICTS, RECONSTRUCTION, OR INTERRUPTIONS IN SERVICE BE REQUIRED, THE CONTRACTOR SHALL COORDINATE UTILITY SCHEDULING.
- THE CONTRACTOR SHALL CORRECTLY SHOW ON SUBMITTED DRAWINGS THE LOCATIONS OF ALL UTILITIES IN THE VICINITY WHERE THE CONTRACTOR MAY BORE, TRENCH, EXCAVATE, AND INSTALL CONDUIT, FIBER, FIBER ENCLOSURES, VAULTS, AND HANDHOLDS. IN THE EVENT THAT THE CONDUIT RUN, FIBER ENCLOSURES, VAULTS, OR HANDHOLDS ARE LOCATED WITHIN THE VICINITY OF ANY UTILITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION THAT WILL PREVENT DAMAGE TO THE INSTALLATION UNDER NORMAL UTILITY OPERATING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN INFORMATION ON EACH OF THE UTILITIES AS APPLICABLE SUCH AS GAS PRESSURE, STEAM, AND WATER PRESSURES, TEMPERATURES, ETC.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE FOR EVIDENCE OF FAILURES OF OR DEFICIENCIES IN UTILITY COMPANY FACILITIES (I.E. XCEL, CENTURYLINK, ETC) AND TO IMMEDIATELY CALL ANY SUCH EVIDENCE OF PRE-EXISTING DAMAGE TO THE ATTENTION OF THE UTILITY COMPANY ALONG WITH PROPER DOCUMENTATION. THE CONTRACTOR HEREBY AGREES THAT THE REPAIR OF ANY AND ALL DAMAGES (DIRECT AND INDIRECT), THAT MAY BE SUBSEQUENTLY DISCOVERED AND PROVEN TO HAVE BEEN CAUSED BY THE CONSTRUCTION ACTIVITIES, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR WITHOUT SUCH EVIDENCE OF PRE-EXISTING DAMAGE. THE CONTRACTOR HEREBY AGREES THAT ANY AND ALL DAMAGES (DIRECT OR INDIRECT) TO UTILITY COMPANY FACILITIES, WHICH ANY BE SUBSEQUENTLY DISCOVERED WITHIN THOSE AREAS WHERE CONSTRUCTION OCCURRED WITHIN SIX FEET OF UTILITY COMPANY FACILITIES (DIRECT OR INDIRECT), AND WITHIN A PERIOD OF THREE YEARS FROM THE DATE OF CONSTRUCTION, WERE CAUSED BY THE CONSTRUCTION ACTIVITIES. FURTHERMORE, THE REPAIR IS AGREED TO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITY COMPANY FACILITIES WITHIN THE AREA OF CONSTRUCTION. THIS INCLUDES ALL STEPS NECESSARY TO PREVENT SUBSIDENCE OF THE SOIL ADJACENT TO OR NEAR UTILITY COMPANY FACILITIES.
- IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ANY TEMPORARY ROADWAY PATCHES THAT MAY OCCUR IN ORDER TO REOPEN A ROADWAY WHILE CONSTRUCTION ACTIVITY PROGRESSES, UNTIL SUCH TIME A PERMANENT PATCH CAN BE INSTALLED.
- DURING CONSTRUCTION WHENEVER ANY PIPELINE IS LEFT UNATTENDED, TEMPORARY PLUGS SHALL BE INSTALLED AT ALL OPENINGS. TEMPORARY PLUGS SHALL BE WATERTIGHT, AND OF SUCH DESIGN AS TO PREVENT CHILDREN AND ANIMALS FROM ENTERING THE PIPE.
- THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING PRIOR TO ANY DISTURBANCE IN SERVICE. THE NOTICES MUST HAVE THE CONTRACTORS PHONE NUMBER, THE NAME OF A CONTACT PERSON, AND AN EMERGENCY PHONE NUMBER FOR AFTER HOURS CALLS. NOTICES SHALL BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.
- COMPACTION OF ALL UTILITY TRENCHES INCLUDING DRY UTILITIES SHALL BE PERFORMED TO 95% DENSITY OF THE STANDARD PROCTOR +/- 2%.
- ALL POTABLE WATER, NON-POTABLE WATER, AND SANITARY SEWER SERVICES SHALL HAVE THEIR APPROXIMATE LOCATIONS STAMPED IN THE CONCRETE CURB AND GUTTER WITH THE INITIALS "W", "NP", AND "S" RESPECTIVELY. ADDITIONAL STAMPS FOR GAS "G" AND ELECTRIC "E" MAY ALSO BE NECESSARY AND ARE AT THE DISCRETION OF THE CONTRACTOR TO PERFORM.

UTILITY LEGEND

EXISTING	PROPOSED
OIL LINE (EXISTING QLB)	NON-POTABLE WATER LINE (PROPOSED)
OIL LINE (EXISTING QLD)	WATER LINE (PROPOSED)
GAS LINE LOW PRESSURE (EXISTING QLB)	STORM SEWER PIPE (PROPOSED)
GAS LINE LOW PRESSURE (EXISTING QLD)	IRRIGATION LINE (PROPOSED)
GAS LINE HIGH PRESSURE (EXISTING QLB)	FIRE HYDRANT
GAS LINE HIGH PRESSURE (EXISTING QLD)	WATER METER
NON-POTABLE WATER LINE (EXISTING QLB)	WATER VALVE
WATER LINE (EXISTING QLB)	WATER MANHOLE
WATER LINE (EXISTING QLD)	FIRE HYDRANT
WATER LINE (EXISTING QLD)	WATER METER
WATER LINE (EXISTING QLD)	WATER VALVE
WATER LINE (EXISTING QLD)	WATER MANHOLE
SANITARY SEWER PIPE (EXISTING QLB)	FIBER OPTIC PULLBOX
SANITARY SEWER PIPE (EXISTING QLD)	FIBER OPTIC MANHOLE
SANITARY SEWER PIPE (EXISTING QLD)	FIBER OPTIC PEDESTAL
IRRIGATION LINE (EXISTING QLB)	FIBER OPTIC MARKER
IRRIGATION LINE (EXISTING QLD)	GAS MARKER
IRRIGATION LINE (EXISTING QLD)	OIL MARKER
IRRIGATION LINE (EXISTING QLD)	IRRIGATION VALVE BOX
FIBER OPTIC UNDERGROUND CABLE (EXISTING QLB)	
FIBER OPTIC UNDERGROUND CABLE (EXISTING QLD)	

QLA = QUALITY LEVEL A
 QLB = QUALITY LEVEL B
 QLD = QUALITY LEVEL D

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 File Name: UTGN P1-001 UTILITY GENERAL NOTES.DWG
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Sheet Revisions		
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As Constructed	37TH STREET WIDENING PHASE 1 UTILITY INFORMATION GENERAL NOTES		Project No.
No Revisions:			AQC M415-021
Revised:	Designer: M. Wessell	Structure Numbers	Drawing Number UTGN-001
Void:	Detailer: R. Parks	Sheet Subset: UTILITY INFO	Sheet Number 65
		Subset Sheets: 1 of 2	

Plot Date: 11/21/2022 9:16 AM Plotted By: Sarah Hemler
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TEST HOLE TABLE (QUALITY LEVEL A)

POTHOLE NUMBER	UTILITY TYPE	UTILITY OWNER	UTILITY SIZE	UTILITY MATERIAL	SURFACE ELEVATION	DEPTH TO UTILITY (IN.)	DEPTH TO UTILITY (FT.)	UTILITY TOP OF PIPE (TOP) ELEV.	NOTES
1	GAS	ATMOS	6-INCH	STEEL	4776.1	36.5	3.04	4773.1	
2	GAS	ATMOS	4-INCH	STEEL	4780.6	100	8.33	4772.3	
3	GAS	DCP	4-INCH	STEEL	4777.3	54	4.50	4772.8	
4	OIL	NOBLE			4776.4				DID NOT LOCATE
5	ELECTRIC	XCEL	8-INCH	PVC	4776.6	79	6.58	4770.0	
6	ELECTRIC	XCEL	8-INCH	PVC	4776.8	111	9.25	4767.6	
7	GAS	ATMOS	6-INCH	STEEL	4776.3	36	3.00	4773.3	
8	GAS	ATMOS	6-INCH	STEEL	4775.9	36	3.00	4772.9	
9	FIBER OPTIC	LEVEL 3	3-INCH	PVC	4776.0	53	4.42	4771.6	
10	GAS	ATMOS	4-INCH	STEEL	4777.4	71	5.92	4771.5	
10A	FIBER OPTIC	CENTURY LINK	3-INCH	PVC	4777.4	85	7.08	4770.3	
11	WATER	CITY OF EVANS	10-INCH	PVC	4777.2	58	4.83	4772.4	
12	GAS	ATMOS	6-INCH	STEEL	4777.3	40	3.33	4774.0	
13	ELECTRIC	XCEL	3-INCH	PVC	4782.4	53.5	4.46	4777.9	
101	GAS	DCP	6-INCH	STEEL	4775.3	60	5.00	4770.3	
101A	HIGH PRESSURE GAS	ATMOS	6-INCH	MILWRAPPED STEEL	4779.2	33.5	2.79	4776.4	
102	OIL	NOBLE	6-INCH	STEEL	4776.9	136	11.33	4765.6	ESTIMATED, PIPE WAS OFF TO NW
103	GAS	ATMOS	4-INCH	PVC	4779.2	69	5.75	4773.5	
103A	TELEPHONE AND FIBER OPTIC	CENTURY LINK	4-INCH BOTH	PVC	4779.2	65	5.42	4773.8	
104	TELEPHONE	CENTURY LINK	2-INCH	GRAY PVC	4779.1	30	2.50	4776.6	
105	TELEPHONE - 400 PAIR	CENTURY LINK	3-INCH	GRAY PVC	4779.5	50	4.17	4775.3	
105A	TELEPHONE - 100 PAIR	CENTURY LINK	1-INCH	BLACK PVC	4779.6	38	3.17	4776.4	1-INCH BLACK CONDUIT LOCATED BETWEEN 3-INCH GRAY AND 6-INCH HP GAS
106	HIGH PRESSURE GAS	ATMOS	6-INCH	MILWRAPPED STEEL	4779.8	59	4.92	4774.9	
107	TELEPHONE - 100 PAIR	CENTURY LINK	1-INCH	BLACK PVC	4779.3	38	3.17	4776.1	
109	GAS - ABANDONED	DCP	3-INCH	STEEL	4781.4	50	4.17	4777.2	

Note: Potholes 1 – 13 performed on October 7, 8, 12, 2021.
Potholes 101 – 109 performed on February 17–26, 2020 for the 47th Ave Widening Project.



Know what's below.
Call before you dig.

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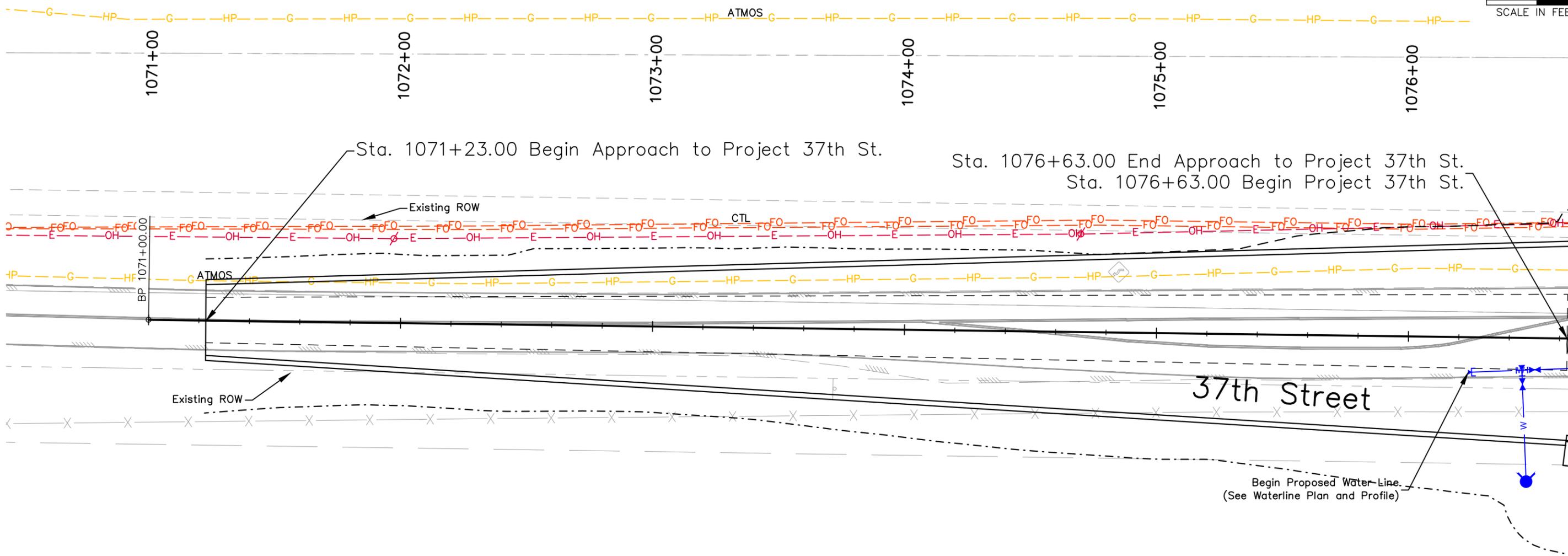
**37TH STREET WIDENING PHASE 1
UTILITY INFORMATION
TEST HOLE TABLE**

Designer: M. Wessell	Structure Numbers
Detailer: R. Parks	
Sheet Subset: UTILITY INFO	Subset Sheets: 2 of 2

Project No.
AQC M415-021
Drawing Number UTGN-002
Sheet Number 66

Plot Date: 11/21/2022 9:17 AM Plotted By: Sarah Hemler
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File Name: UTIL P1-001 UTILITY PLAN.DWG	
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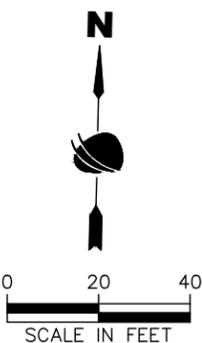
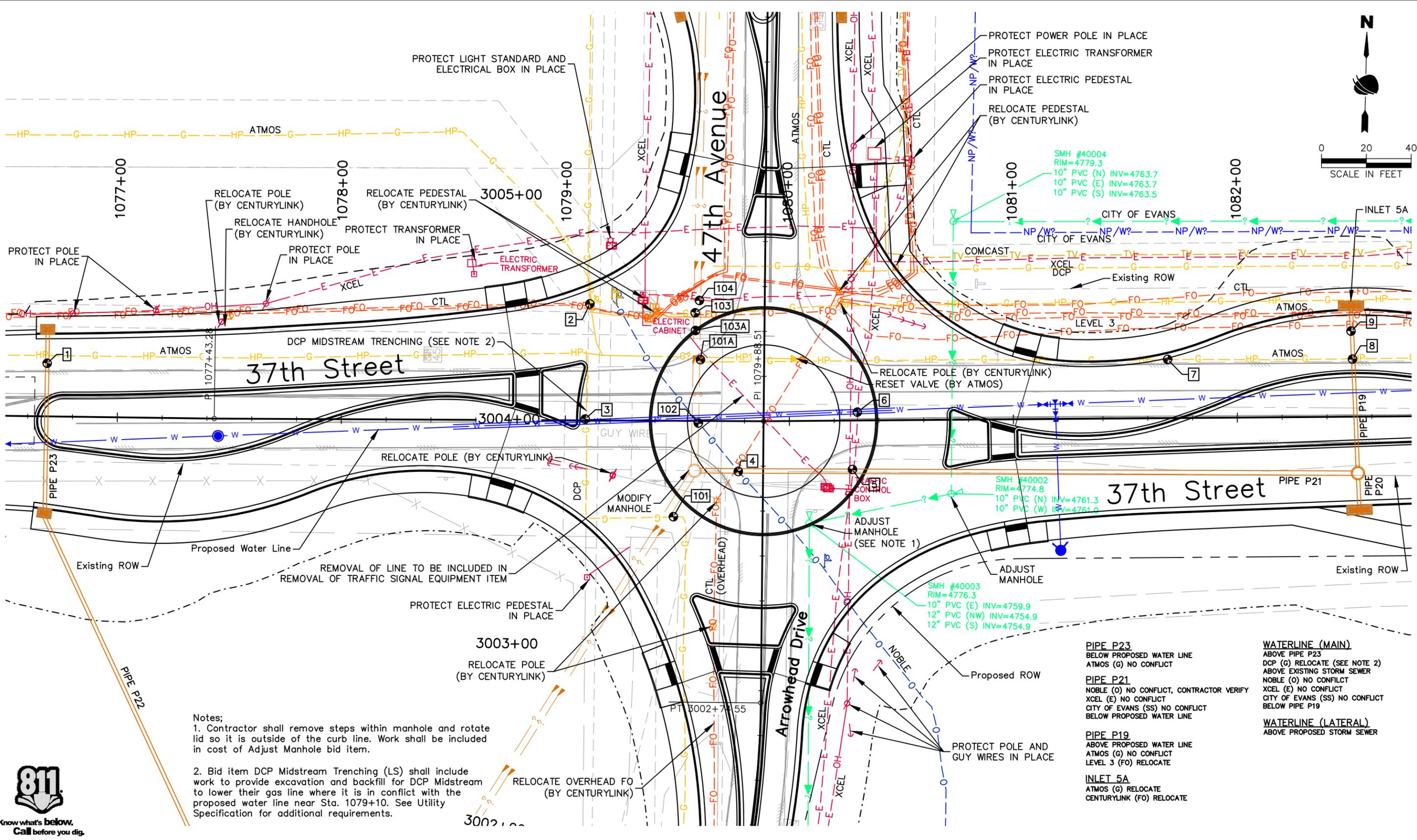


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37TH STREET WIDENING PHASE 1 UTILITY PLANS		
Designer: M. Wessell	Structure Numbers	
Detailer: R. Parks		
Sheet Subset: UTILITIES	Subset Sheets: 1 of 7	

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Notes:
 1. Contractor shall remove steps within manhole and rotate lid so it is outside of the curb line. Work shall be included in cost of Adjust Manhole bid item.
 2. Bid item DCP Midstream Trenching (LS) shall include work to provide excavation and backfill for DCP Midstream to lower their gas line where it is in conflict with the proposed water line near Sta. 1079+10. See Utility Specification for additional requirements.

PIPE P23
 BELOW PROPOSED WATER LINE
 ATMOS (G) NO CONFLICT

PIPE P21
 NOBLE (O) NO CONFLICT, CONTRACTOR VERIFY
 XCEL (E) NO CONFLICT
 CITY OF EVANS (SS) NO CONFLICT
 BELOW PROPOSED WATER LINE

PIPE P19
 ABOVE PROPOSED WATER LINE
 ATMOS (G) NO CONFLICT
 LEVEL 3 (FO) RELOCATE

INLET 5A
 ATMOS (G) RELOCATE
 CENTURYLINK (FO) RELOCATE

WATERLINE (MAIN)
 ABOVE PIPE P23
 DCP (G) RELOCATE (SEE NOTE 2)
 ABOVE EXISTING STORM SEWER
 NOBLE (O) NO CONFLICT
 XCEL (E) NO CONFLICT
 CITY OF EVANS (SS) NO CONFLICT
 BELOW PIPE P19

WATERLINE (LATERAL)
 ABOVE PROPOSED STORM SEWER



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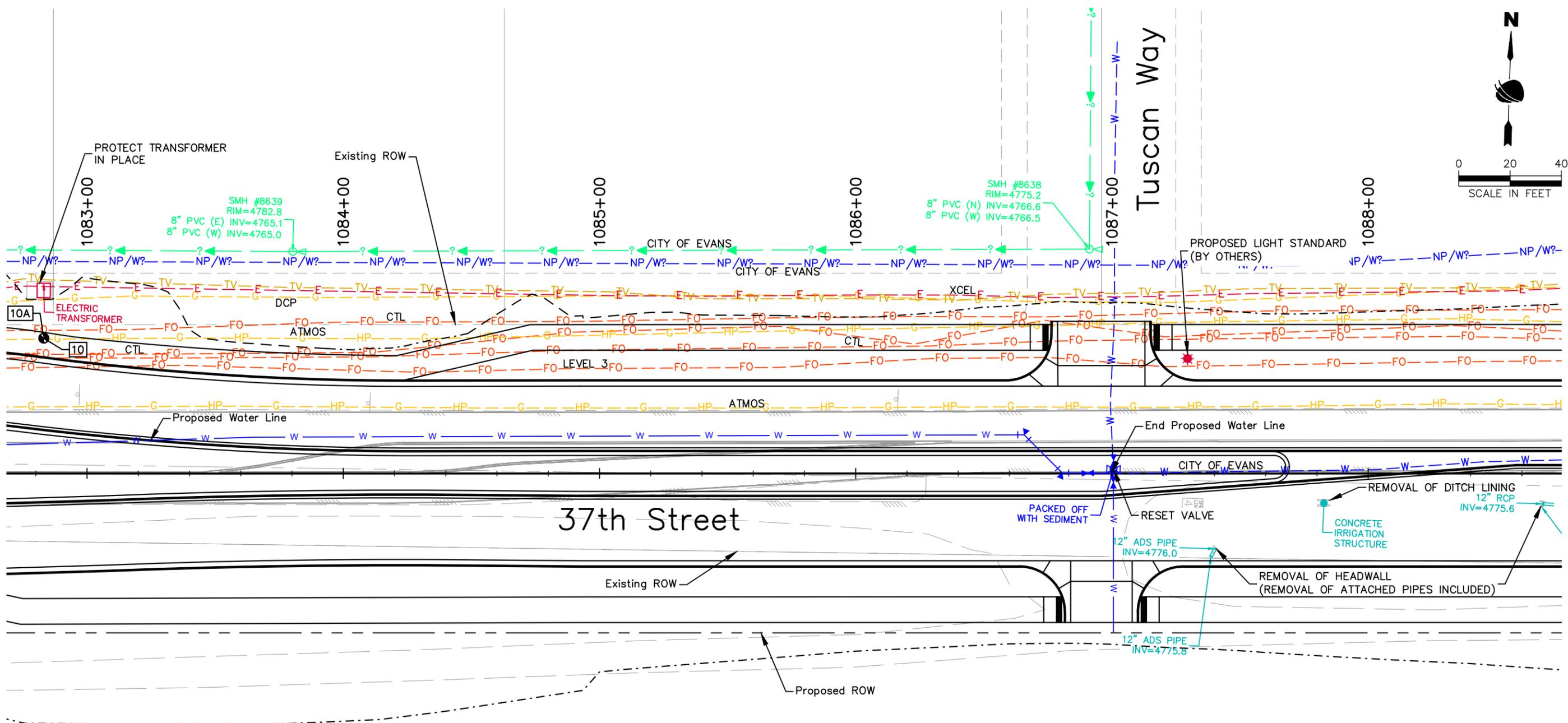
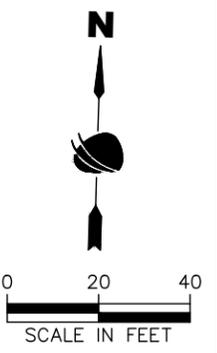
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37TH STREET WIDENING PHASE 1 UTILITY PLANS	
Designer:	M. Wessell
Detailer:	R. Parks
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Structure Numbers	
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Drawing Number UTIL-002
Sheet Number 68

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**37TH STREET WIDENING PHASE 1
 UTILITY PLANS**

Designer: M. Wessell
 Detailer: R. Parks
 Sheet Subset: UTILITIES

Structure Numbers
 Subset Sheets: 3 of 7

Project No.
 AQC M415-021

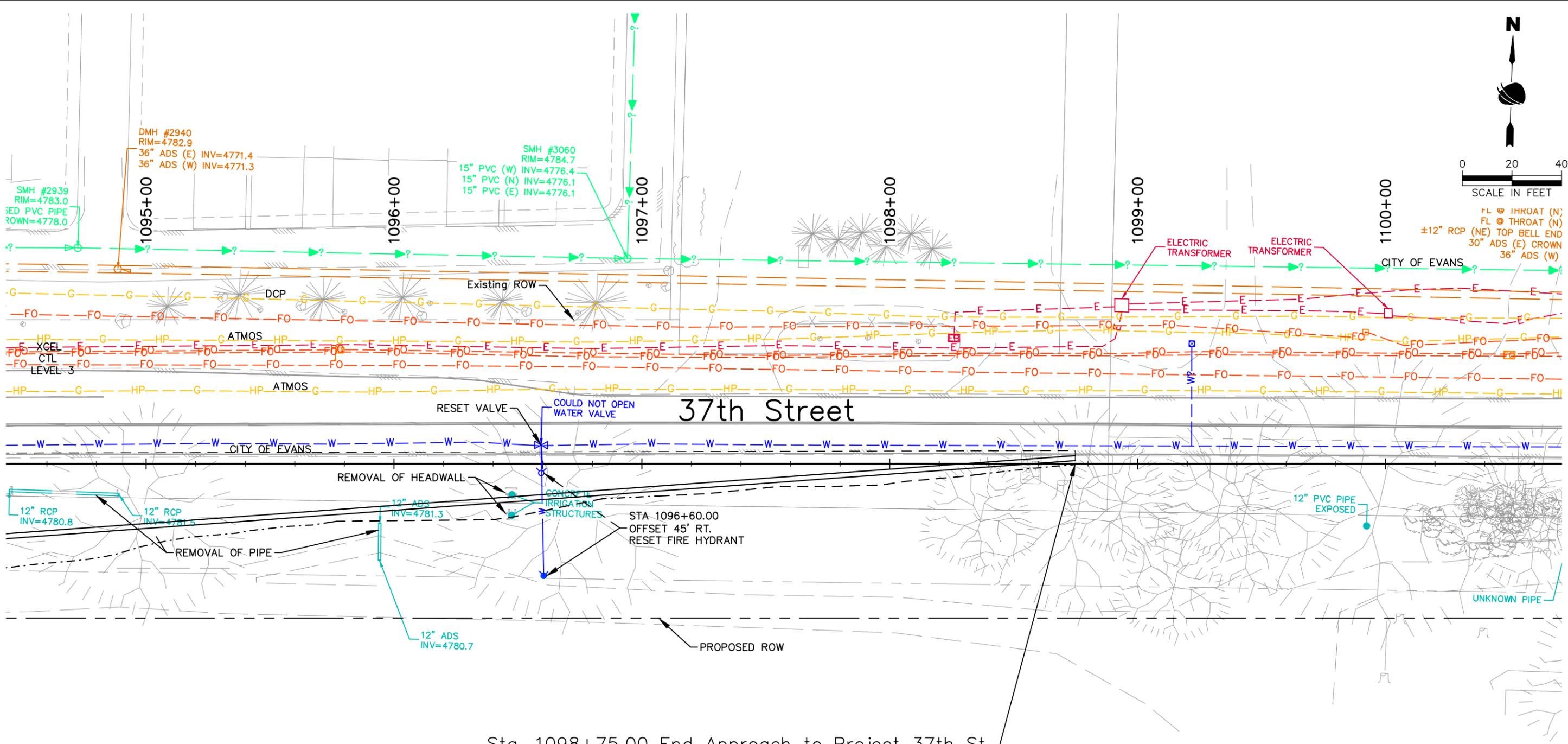
Drawing Number UTIL-003
 Sheet Number 69

Plot Date: 11/21/2022 9:18 AM Plotted By: Sarah Hemler
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FL @ IHROAT (N)
 FL @ THROAT (N)
 ±12" RCP (NE) TOP BELL END
 30" ADS (E) CROWN
 36" ADS (W)



Sta. 1098+75.00 End Approach to Project 37th St.

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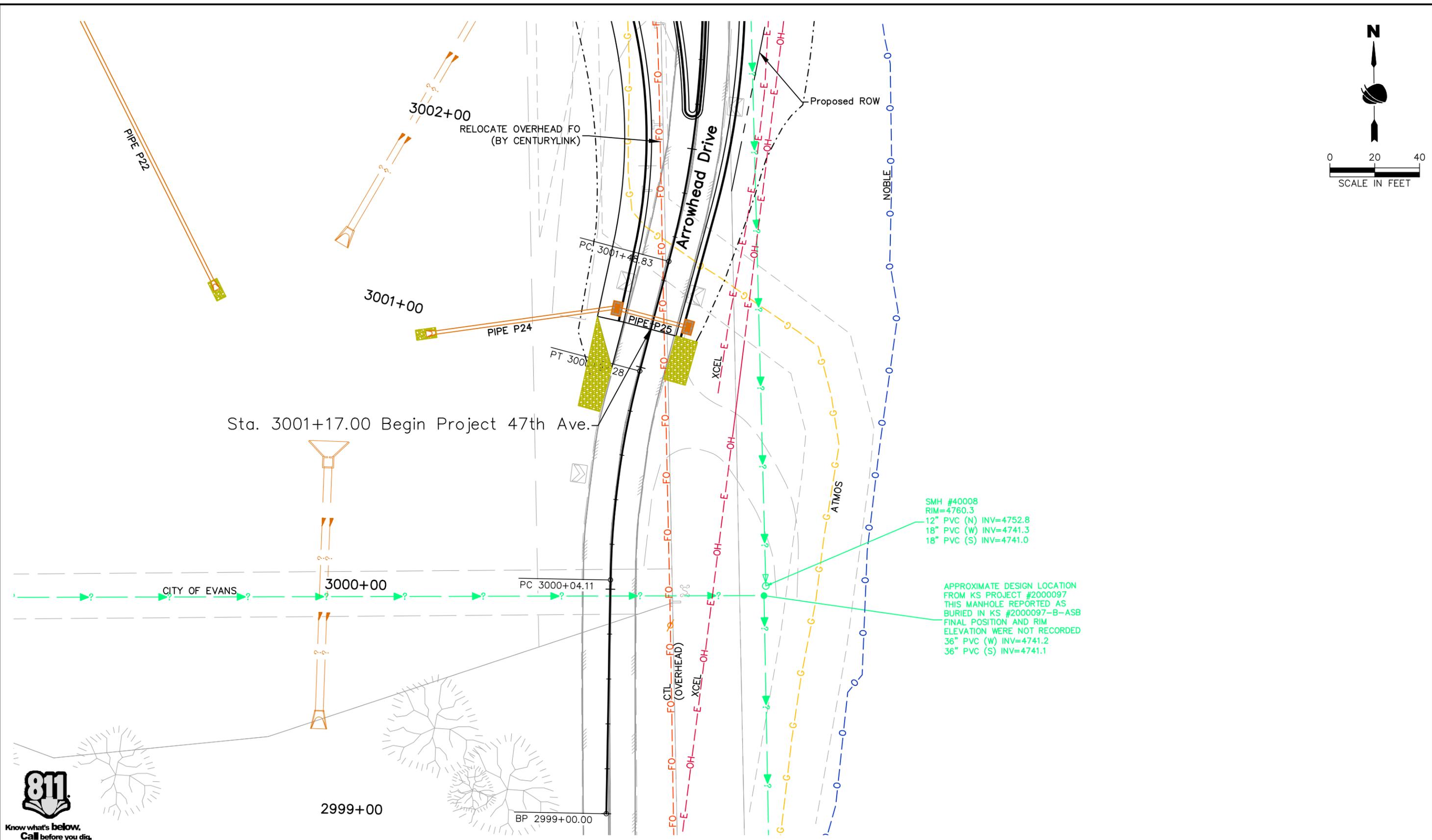
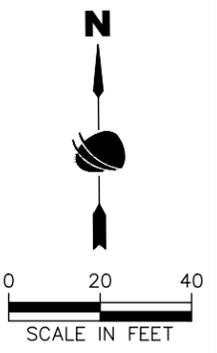


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37TH STREET WIDENING PHASE 1 UTILITY PLANS		
Designer: M. Wessell	Structure Numbers	Sheet Subset: UTILITIES Subset Sheets: 5 of 7
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Sheet Number 71

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SMH #40008
 RIM=4760.3
 12" PVC (N) INV=4752.8
 18" PVC (W) INV=4741.3
 18" PVC (S) INV=4741.0

APPROXIMATE DESIGN LOCATION
 FROM KS PROJECT #2000097
 THIS MANHOLE REPORTED AS
 BURIED IN KS #2000097-B-ASB
 FINAL POSITION AND RIM
 ELEVATION WERE NOT RECORDED
 36" PVC (W) INV=4741.2
 36" PVC (S) INV=4741.1

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Drawing Number UTIL-006
Sheet Number 72

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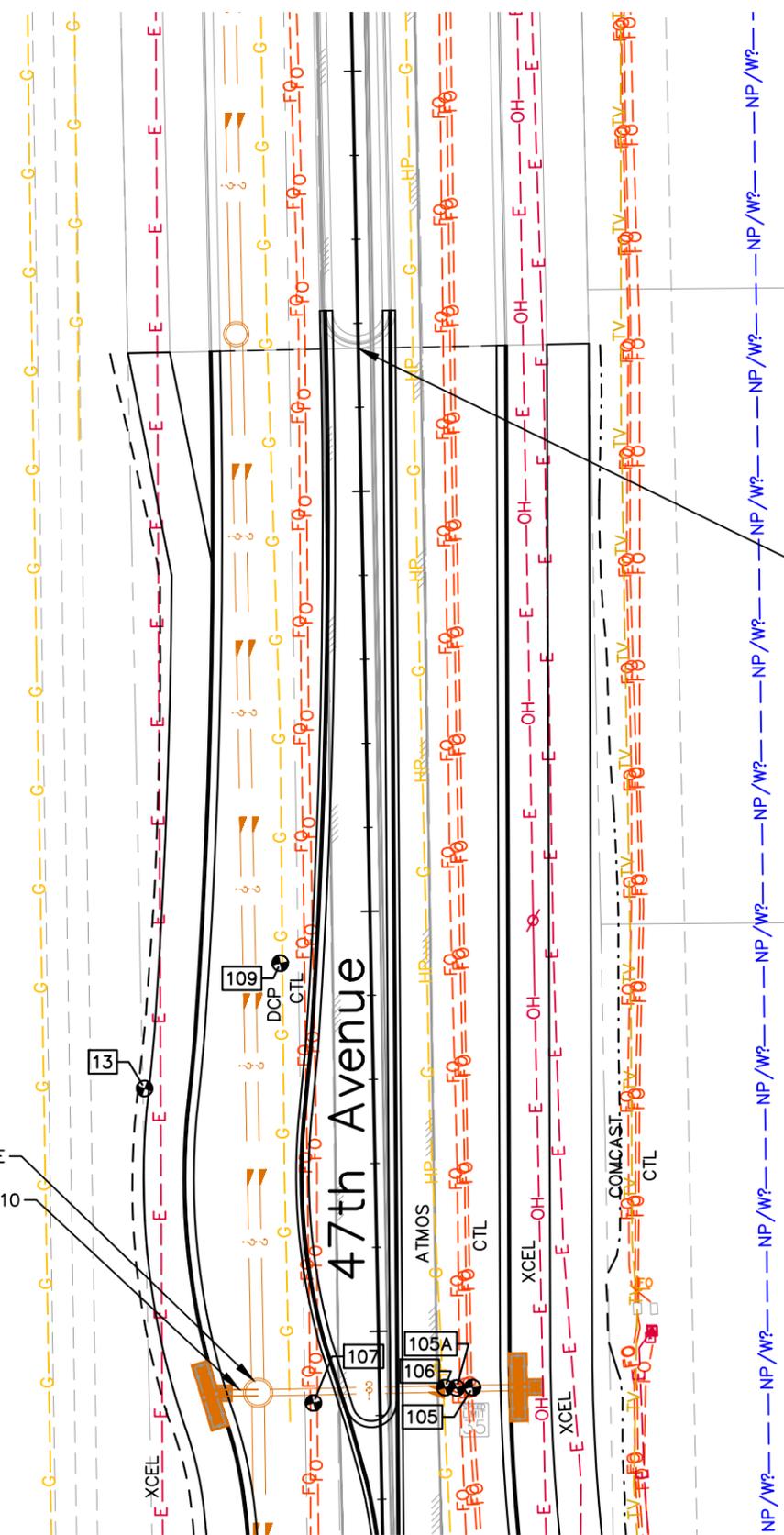


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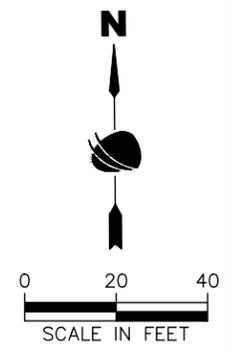
37TH STREET WIDENING PHASE 1 UTILITY PLANS		
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Detailer: R. Parks		
Sheet Subset: UTILITIES Subset Sheets: 7 of 7		

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Sheet Number 73

3009+00
3008+00
3007+00
3006+00



Sta. 3008+34.00 End Project 47th Ave.



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STORMWATER MANAGEMENT PLAN

1. SITE DESCRIPTION

The Contractor shall comply with all contractual requirements and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update to reflect current project site conditions.

- A. **PROJECT SITE LOCATION:** The project is located at the intersection of 47th Avenue and 37th Street to Sienna Avenue.
- B. **PROJECT SITE DESCRIPTION:** The project will include improvements to replace a signalized intersection with a roundabout, roadway widening from two lanes to four lanes, raised medians, landscaping, extended sidewalks, and will taper back into the existing roadway of 37th east of Sienna Avenue.
- C. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:** Construction activities include, clearing and grubbing, grading, drainage improvements, and landscaping. Construction will begin with installation of initial control measures before clearing and grubbing. Followed by grading activities, paving, signing and striping, median landscaping, and permanent revegetation.
- D. **ACRES OF DISTURBANCE:**
 - 1. Total area of construction site (LOC (PERMITTED AREA)): 14.2 acres
 - 2. Total area of proposed disturbance (LDA): 9.9 acres
 - 3. Total area of seeding: 2.2 acres
- E. **EXISTING SOIL DATA:** Site soils consist of Vona loamy sand, Otero sandy loam, and Loup-Boel loamy sands. Vona and Otero soil types consist of Hydrologic Soil Group A, with a very low surface runoff potential. Loup-Boel soil type consists of Hydrologic Soil Groups A/D, with Group A in drained areas and Group D in undrained areas having a high surface runoff potential when thoroughly wet.
Data Source: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>
- F. **EXISTING VEGETATION, INCLUDING PERCENT COVER:**
A survey including general description of existing vegetation shall be conducted by the SWMP Administrator for Construction prior to any ground disturbance on the project. The SWMP Administrator shall photo-document existing vegetation where all work will be occurring.
- G. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25 of CDOT Standards and Specifications.
- H. **RECEIVING WATER:**
 - 1. Outfall locations: This project outfalls to the City of Evans MS4
 - 2. Names of immediate receiving water(s) on site: Unnamed roadside ditches
 - 3. Ultimate receiving water(s): Ashcroft Draw, South Platte River
 - 4. Horizontal distance to nearest ultimate receiving water from project: Approximately 0.2 miles to Ashcroft Draw and approximately 1.6 miles to South Platte River
 - 5. Description of all stream crossings located within the Construction Site Boundary: Not applicable
- I. **NON-STORMWATER DISCHARGES:** SWMP Administrator for Construction shall provide a method statement of how discharge will be handled.

Discharge Description	Location (Site Map #)	Method Statement (Location)
Dewatering*		
Uncontaminated Spring		
Concrete Wash Water (in-ground washout structure)		
Landscape Irrigation Return Flows		
Emergency Fire Fighting		
Concrete Saw Water		

ALLOWABLE: Refer to CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land.
<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

*If ground water does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25 of CDOT Standards and Specifications.

2. SITE MAP COMPONENTS:

Pre-construction

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES** – See SWMP Site Maps
- B. **ALL AREAS OF GROUND SURFACE DISTURBANCE** – See SWMP Site Maps
- C. **AREAS OF CUT AND FILL** – See SWMP Site Maps
- D. **LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP** – See SWMP Site Maps
- E. **LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP** – See SWMP Site Maps
- F. **STREAMS, SPRINGS, WETLANDS AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER** – Not applicable
- G. **PROTECTION OF TREES, SHRUBS AND CULTURAL RESOURCES** – See Landscape Plans and Tree Protection Notes in Landscape Plans
- H. **FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE AND RUNOFF DIRECTION** – See SWMP Site Maps
- I. **AREAS USED FOR STORING AND STOCKPILING MATERIALS, STAGING AREAS (field trailer, fueling, etc.) WASTE ACCUMULATION AND BATCH PLANTS INCLUDING MASONRY MIXING STATIONS** – See SWMP Site Maps
- J. **LOCATIONS OF ALL STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY** – See SWMP Site Maps

3. QUALIFIED STORMWATER MANAGERS:

A. **SWMP ADMINISTRATOR FOR DESIGN:**

Name/Title	Contact Information	CDOT SWMP Preparer Certification #
Jovonna Kirkling/Environmental Specialist	kirkling@rocksol.com/303-913-2193	2FE4F476

B. **SWMP Administrator for Construction:** (As defined in Section 208 of CDOT Standards and Specifications) The Contractor shall designate a SWMP Administrator for Construction upon co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to subsection 208.03 of the CDOT Standards and Specifications. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction).

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No Revisions:			AQC M415-021
Revised:	Designer: J. Kirkling	Structure Numbers	Drawing Number ENVI-001
Void:	Detailer: J. Kirkling		Sheet Number 74
	Sheet Subset: ENVI	Subset Sheets: 1 of 27	

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Name/Title	Contact Information (phone & email)	CDOT TECS Certification #	Start Date	Engineer Approval

C. **EROSION CONTROL INSPECTOR:** (As defined in Section 208 of CDOT Standards and Specifications) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03(c) of CDOT Standards and Specifications.

Name/Title	Contact Information (phone & email)	CDOT TECS Certification #	Start Date	Engineer Approval

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. **POTENTIAL POLLUTANT SOURCES**

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25 of CDOT Standards and Specifications, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

B. **OFFSITE DRAINAGE (RUN ON WATER)**

1. Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03 of CDOT Standards and Specifications.

C. **VEHICLE TRACKING CONTROL STRIP**

1. Control measures shall be implemented in accordance with Section 2.01.10 of City of Evans Standards and Specifications.

D. **PERIMETER CONTROL**

1. 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 shall be in accordance with subsection 208.04 of CDOT Standards and Specifications.
 2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP Administrator for Construction

The SWMP is a "living document" that is continuously reviewed and modified throughout the construction phasing. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator for Construction in accordance with subsection 208.03 of CDOT Standards and Specifications. During construction, indicate how items that have not been addressed during design are being handled in construction.

A. **STOCKPILE MANAGEMENT:** Shall be done in accordance with Section 2.01.10 of City of Evans Standards and Specifications.

B. **CONCRETE WASHOUT:** Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05 of CDOT Standards and Specifications.

C. **SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, and 208.05 of CDOT Standards and Specifications.

D. **STREET SWEEPING:** Shall be done in accordance with subsection 208.04 of CDOT Standards and Specifications.

6. INSPECTIONS

A. Inspections shall be in accordance with Section 2.01.06 of City of Evans Standards and Specifications and subsection 208.03(c) of CDOT Standards and Specifications.

7. CONTROL MEASURE MAINTENANCE

A. Maintenance shall be in accordance with Section 2.01.10 of City of Evans Standards and Specifications and subsection 208.04(f) of CDOT Standards and Specifications.

8. RECORD KEEPING

A. Records shall be kept in accordance with subsection 208.03(d) of CDOT Standards and Specifications.

9. INTERIM, PERMANENT STABILIZATION, and LONG-TERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with Section 2.01.11 of City of Evans Standards and Specifications.

A. **SEEDING PLAN**

Seeding will be required for an estimated total of 2.2 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

Type I Seed Mix: For use in ground surface disturbance between curb and sidewalk, areas shown on site maps.

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
buffalograss	<i>Buchloe dactyloides</i>	13.2
blue grama grass	<i>Bouteloua gracilis</i>	8.8
TOTAL		22.0

Type II Seed Mix: Short grass for use in all other ground surface disturbances including, from sidewalk to edge of cut/fill areas. Areas shown on site maps. Refer to Landscaping Plans for ornamental tree/shrub plantings within these areas.

COMMON NAME	BOTANICAL NAME	% LBS. PLS PER ACRE (11 LBS. PER ACRE)
blue grama grass	<i>Bouteloua gracilis</i>	3.0
Sideoats grama	<i>Bouteloua curtipendula</i>	3.0
little bluestem (Pastura, Blaze)	<i>Schizachyrium scoparium</i>	2.8
sand dropseed	<i>Sporobolus cryptandrus</i>	1.1
sand lovegrass (Nebraska 27)	<i>Eragrostis trichoides</i>	1.1
TOTAL		11.0

B. **SEEDING APPLICATION:** Drill seed 0.25 inch to 0.75 inch into the soil at the specified PLS per acre rate with a mechanical grass drill with depth bands and an agitator in the seed box. Rows shall be spaced not more than seven inches apart in accordance with Section 2.01.11 of City of Evans Standards and Specifications. In small areas not accessible to a drill, hand broadcast or hydroseed at double the PLS rate per acre and rake 0.25 inch to 0.5 inch into the soil per Section 212 of CDOT Standards and Specifications.

C. **MULCHING APPLICATION:** Apply a minimum of 4,000 pounds of certified weed free straw per acre and in accordance with Chapter 2 of City of Evans Standards and Specifications, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

1. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free straw) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213 of CDOT Standards and Specifications.

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Detailer:	J. Kirkling	
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D. SPECIAL REQUIREMENTS:

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

E. SOIL AMENDMENTS REQUIREMENTS: Minimum amendment material requirements for all disturbances to receive seeding.

1. Compost shall be applied at 4 CY per 1000 SF over the designated areas in accordance with Section 2.01.11 of City of Evans Standards and Specifications.

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

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:

Prior to partial acceptance.

1. 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.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- A. Partial Acceptance shall be in accordance with Section 2.01.10 of City of Evans Standards and Specifications and subsections 107.25 (d), 208.10 and 214.04 of CDOT Standards and Specifications. At the Partial Acceptance of the project, it shall be determined by the SWMP Administrator for Construction and the Engineer which temporary control measures shall remain until 80% revegetation is established or which shall be removed.
- B. At the end of the project, all ditch checks shall either consist of temporary erosion logs (or equivalent) or permanent riprap.

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Detailer:	J. Kirkling	
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11. NARRATIVES:

Control Measure Matrixes During Construction:

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be added to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column In Use on-site when the control measure has been installed.
- A "P" in the Initial Activities Column indicates that the control measure shall be installed before construction activity starts. Locations and quantities will be discussed during the Environmental Pre-construction Conference with the Regional Water Pollution Control Manager.

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

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS <i>Fence (plastic) and erosion logs</i>	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.			P	X	
PROTECTION OF EXISTING TREES/LANDSCAPING <i>Fence (plastic)</i>	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.			P or X	X	
CHECK DAM/DITCH CHECK <i>Erosion log, silt berm, silt dike, rock check dam</i>	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.	M-208		X	X	
STORM DRAIN INLET PROTECTION IN PAVED ROADWAYS <i>(Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)</i>	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		P or X	X	X
STORM DRAIN INLET PROTECTION IN NATIVE SEED AREAS <i>(M-604 Standard Inlets Type C and D)</i>	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208		P or X		
CULVERT INLET/OUTLET PROTECTION <i>Erosion logs, aggregate bags</i>	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.	M-208		P	X	X
TYPE C, TYPE D, AND TYPE 13 PROTECTION <i>Erosion logs, aggregate bags, erosion bales</i>	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances.	M-208		P	X	X
STOCKPILE PROTECTION <i>Temporary berm, erosion logs, aggregate bags*</i>	Placed within specified distance, in accordance with subsection 208.06, 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 stockpile, increase control as stockpile increases size.	M-208			X	
TOE OF FILL PROTECTION <i>Erosion logs, temporary berm, silt fence, topsoil windrow*</i>	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL <i>Erosion logs, silt fence, temporary berm, topsoil windrow*</i>	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		P or X	X	
SEDIMENT CONTROL/SLOPE CONTROL <i>Silt fence, erosion logs</i>	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208		X	X	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208		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.	M-208			X	X
OUTLET PROTECTION <i>Riprap, or approved other</i>	Material placed as energy dissipator to prevent erosion at outlet structure.	M-601-12			X	X
CONCRETE WASHOUT <i>In-ground or fabricated</i>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.	M-208		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.	M-208		P	X	

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37TH STREET WIDENING PHASE 1 SWMP NARRATIVE

Designer: J. Kirkling
 Detailer: J. Kirkling
 Sheet Subset: ENVI

Project No.	AQC M415-021
Drawing Number	ENVI-004
Sheet Number	77

ENGINEERED SEDIMENT BASIN	Constructed early in project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible			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.					
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff.					
OTHER						

NON-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to: 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 control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

*** Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD"	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP Fence (plastic)	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure 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. Area to be identified on SWMP prior to construction starting.	M-208		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth four inches, or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of four inches or as specified.	M-208		X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES SEEDING (TEMPORARY)	Temporary stabilization of disturbance and to minimize wind and erosion. Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
STRAW or HAY MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				X	X
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim 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
SEEDING PERMANENT (NATIVE) SOIL RETENTION BLANKET (SRB)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				X
TURF REINFORCEMENT MAT (TRM)	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.	M-216				
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X

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37TH STREET WIDENING PHASE 1 SWMP NARRATIVE

Designer: J. Kirkling	Structure Numbers
Detailer: J. Kirkling	
Sheet Subset: ENVI	Subset Sheets: 5 of 27

Project No.
AQC M415-021
Drawing Number ENVI-005
Sheet Number 78

12. TABULATION OF STORMWATER QUANTITIES

- A. Control Measure 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 control measure maintenance shall be included in the cost of the control measure.
- B. Establishment of seeded areas from Substantial Landscape Completion shall be included in the price of the work. This shall include mowing, weed control, reseeding/mulch/tackifier.

Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
203-01500	Blading	Hour		10		10
203-01550	Dozing	Hour		10		10
207-00205	Topsoil	CY			1115	1115
208-00002	Erosion Log (Type I)(12 inch)	LF	7000	500		7500
208-00035	Aggregate Bag	LF	500			500
208-00046	Pre-fabricated Concrete Washout Structure (Type I)	Each		2		2
208-00053	Storm Drain Inlet Protection (Type I) (84 Inch)	Each	4	12		4
208-00054	Storm Drain Inlet Protection (Type II)	Each		1		1
208-00075	Pre-fabricated Vehicle Tracking Pad	Each	4	2		4
208-00103	Removal and Disposal of Sediment (Labor)	Hour		10	10	20

208-00105	Removal and Disposal of Sediment (Equipment)	Hour			10	10	20
208-00106	Sweeping (Sediment Removal)	Hour			200	100	300
208-00107	Removal of Trash	Hour			8		8
208-00207	Erosion Control Management (ECM)	Day			50	10	60
212-00006	**Seeding (Type I)	Acre				1.6	1.6
212-00022	**Seeding (Type II)	Acre				0.6	0.6
212-00032	**Soil Conditioning	Acre				2.2	2.2
213-00004	**Mulching (Weed Free Straw)	Acre				2.2	2.2
213-00012	Spray-on Mulch Blanket	Acre				1	1
213-00061	**Mulch Tackifier	LB				440	440
216-00201	Soil Retention Blanket (Straw-Coconut)(Biodegradable Class 1)	SY				137	137
607-11525	Fence (Plastic)	LF	150				150

*It is anticipated that additional control measures and control measure 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 subsections 208.03 and 208.04 of CDOT Standards and Specifications. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** 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. **An additional 10% was added to account for use of broadcast seeding in confined areas where drill seeding cannot be achieved.

13. BIOLOGIC IMPACTS and DEWATERING

- A. ENVIRONMENTAL IMPACTS:
 1. Wetland Impacts: YES
 2. Stream Impacts: NO
 3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.
- B. DEWATERING (Not Covered Under the CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land):
 1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 of CDOT Standards and Specifications.

14. NOTES

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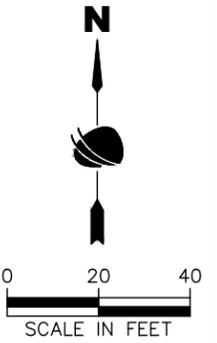
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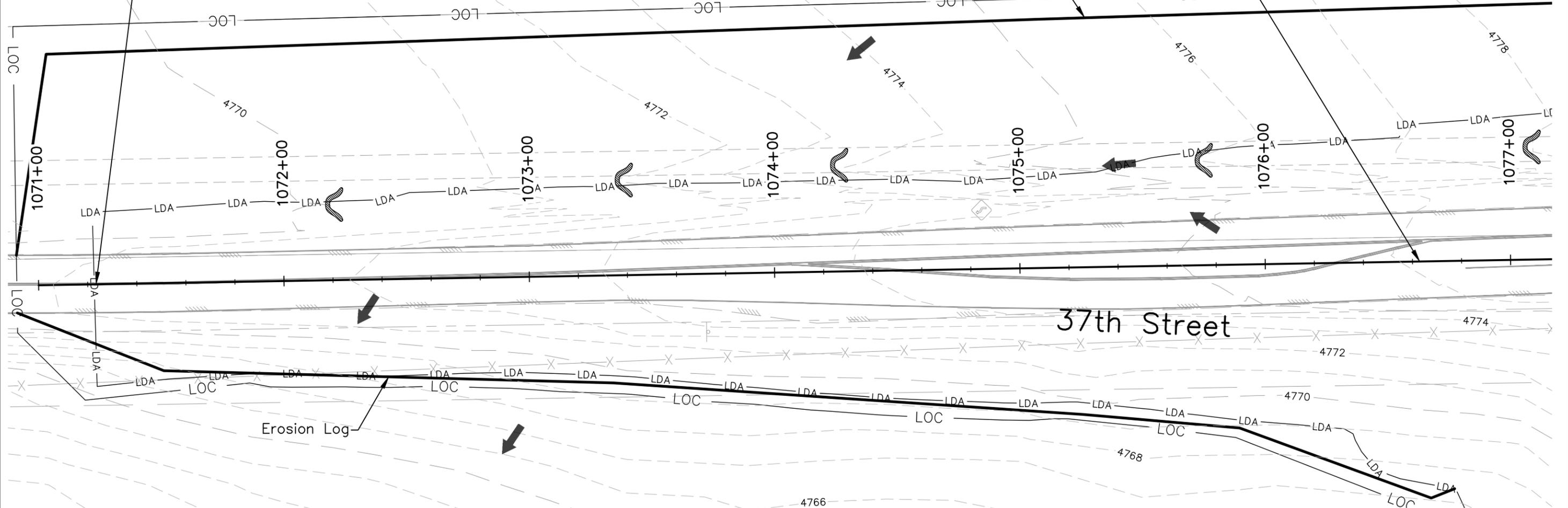
Notes:

1. Perimeter controls shall be installed prior to start of construction.
2. Vehicle Tracking Pads shall be located by the contractor.
3. Staging area(s) shall be located by the contractor with City of Evans approval.
4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
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Sta. 1076+63.00 End Approach to Project 37th St.
Sta. 1076+63.00 Begin Project 37th St.

Sta. 1071+23.00 Begin Approach to Project 37th St.



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SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
U	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
█	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▣	STORM DRAIN INLET PROTECTION (TYPE II)
▨	AGGREGATE BAG
⋈	EXISTING WETLANDS
—	WATERS OF THE U.S.
SF	SILT FENCE



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Designer: J. Kirkling	Structure Numbers
Detailer: J. Jensen	
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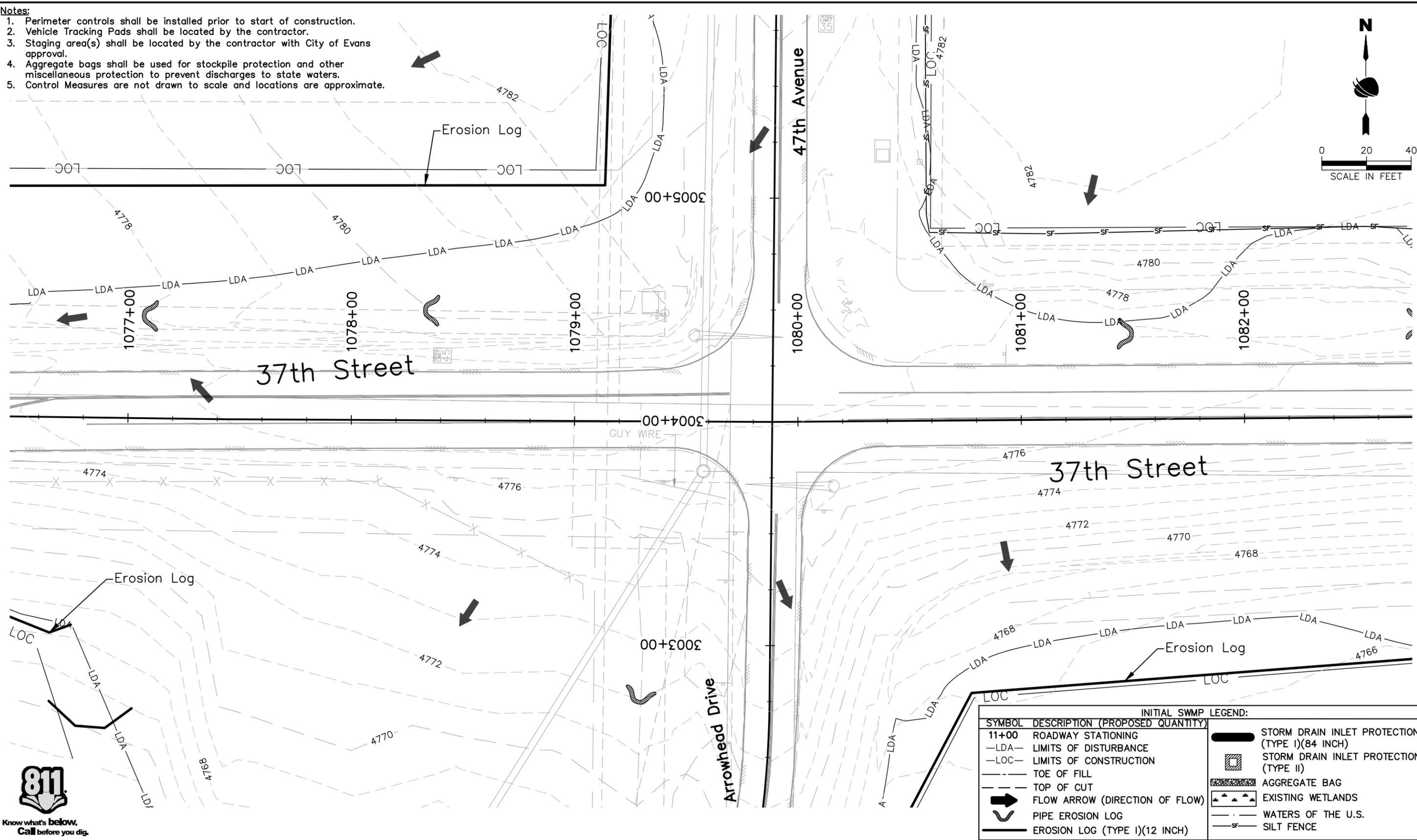
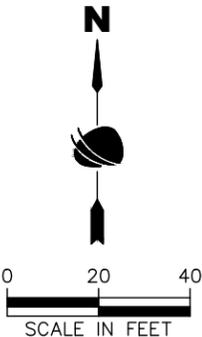
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-LOC-	LIMITS OF CONSTRUCTION
- - -	TOE OF FILL
- - -	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
~	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
█	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
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▨	AGGREGATE BAG
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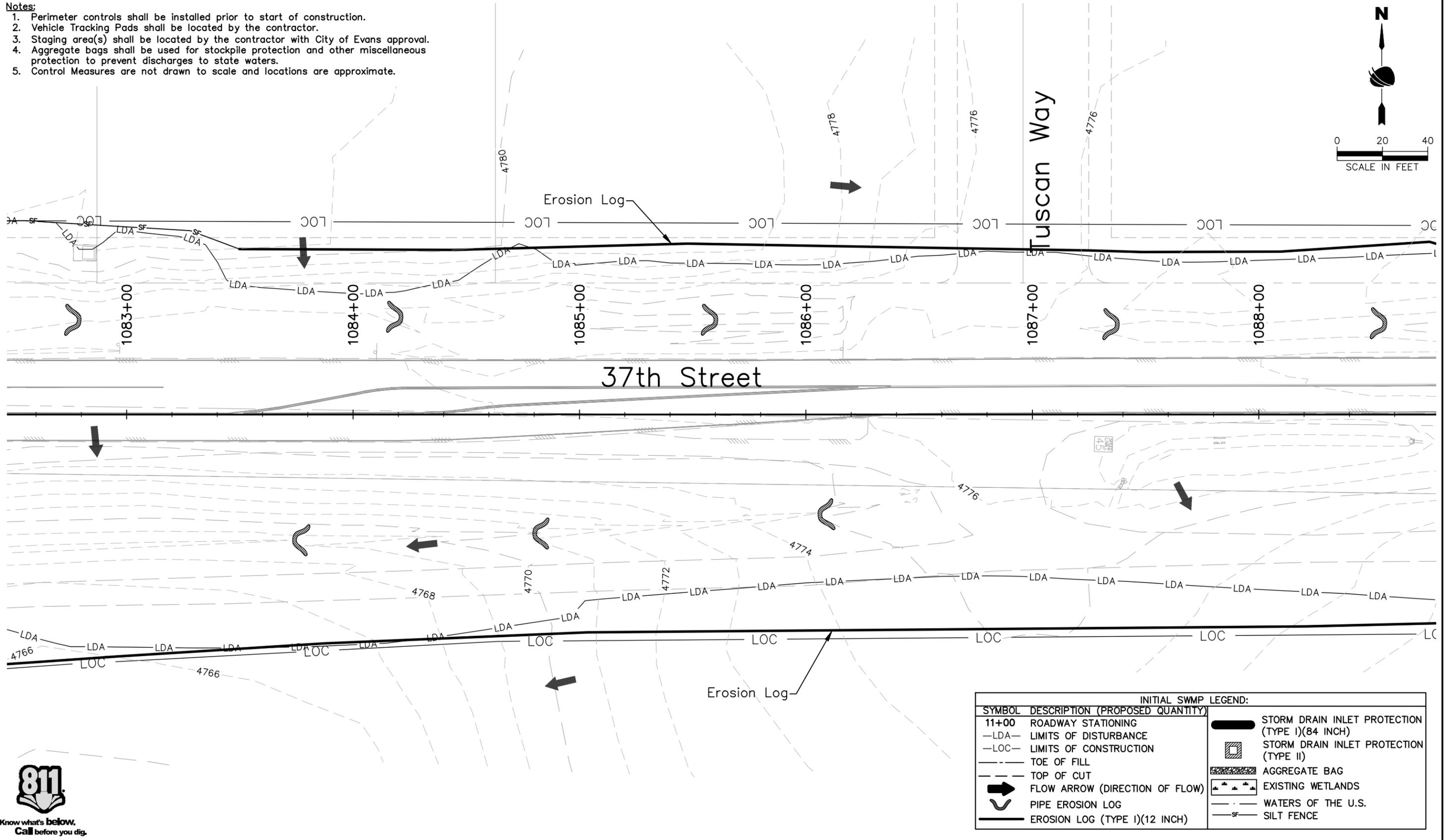
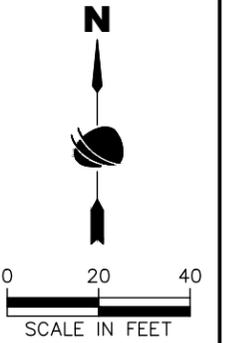
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---	TOE OF FILL
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⤿	PIPE EROSION LOG
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▨	AGGREGATE BAG
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---	WATERS OF THE U.S.
SF	SILT FENCE



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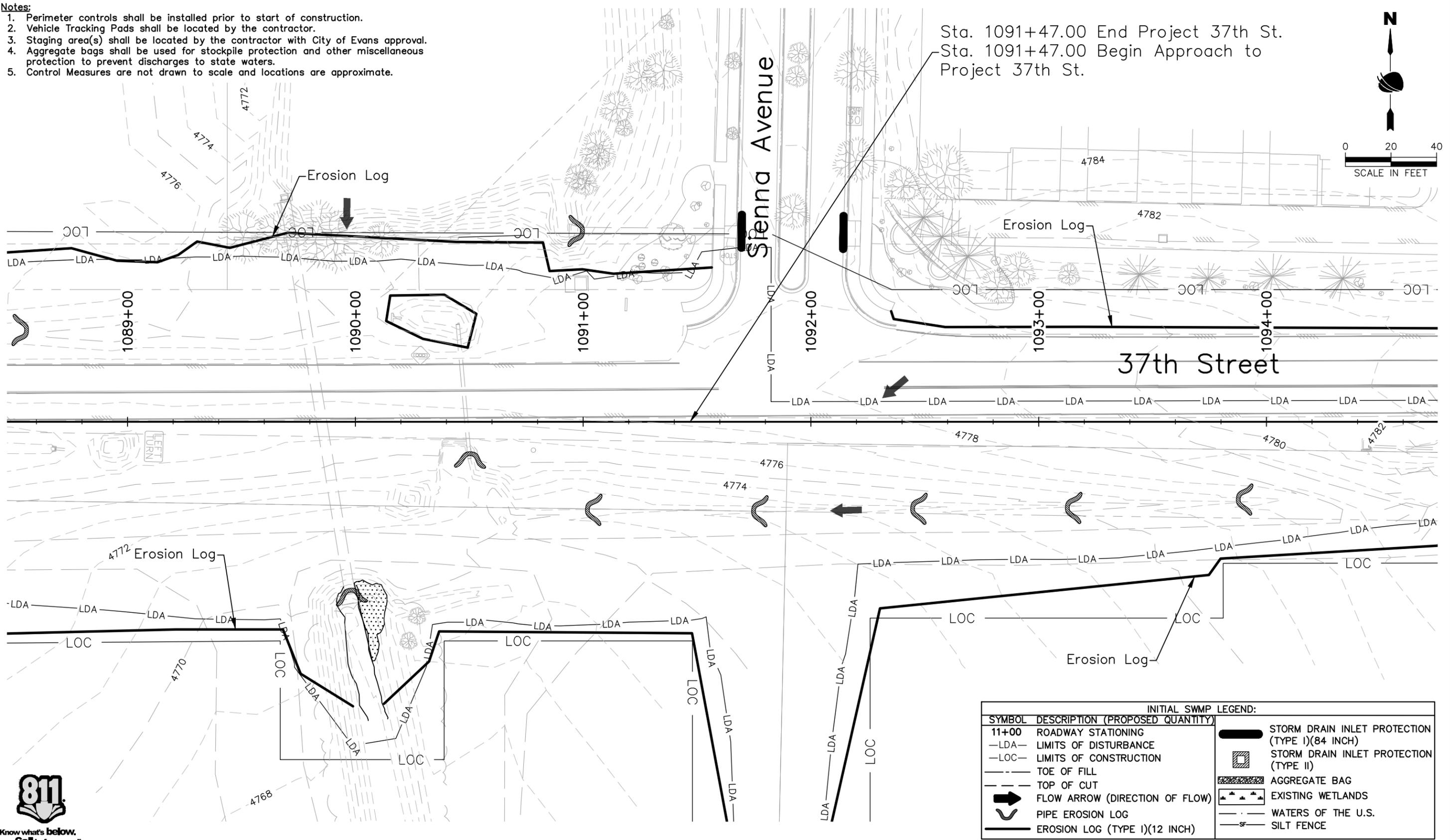
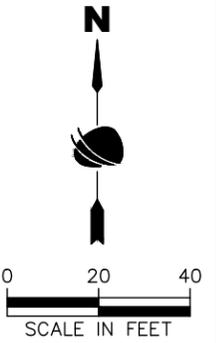
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 Sta. 1091+47.00 Begin Approach to Project 37th St.



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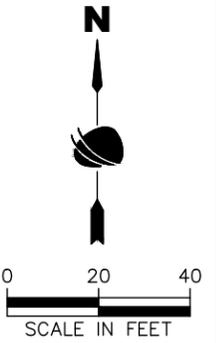
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Detailer: J. Jensen		

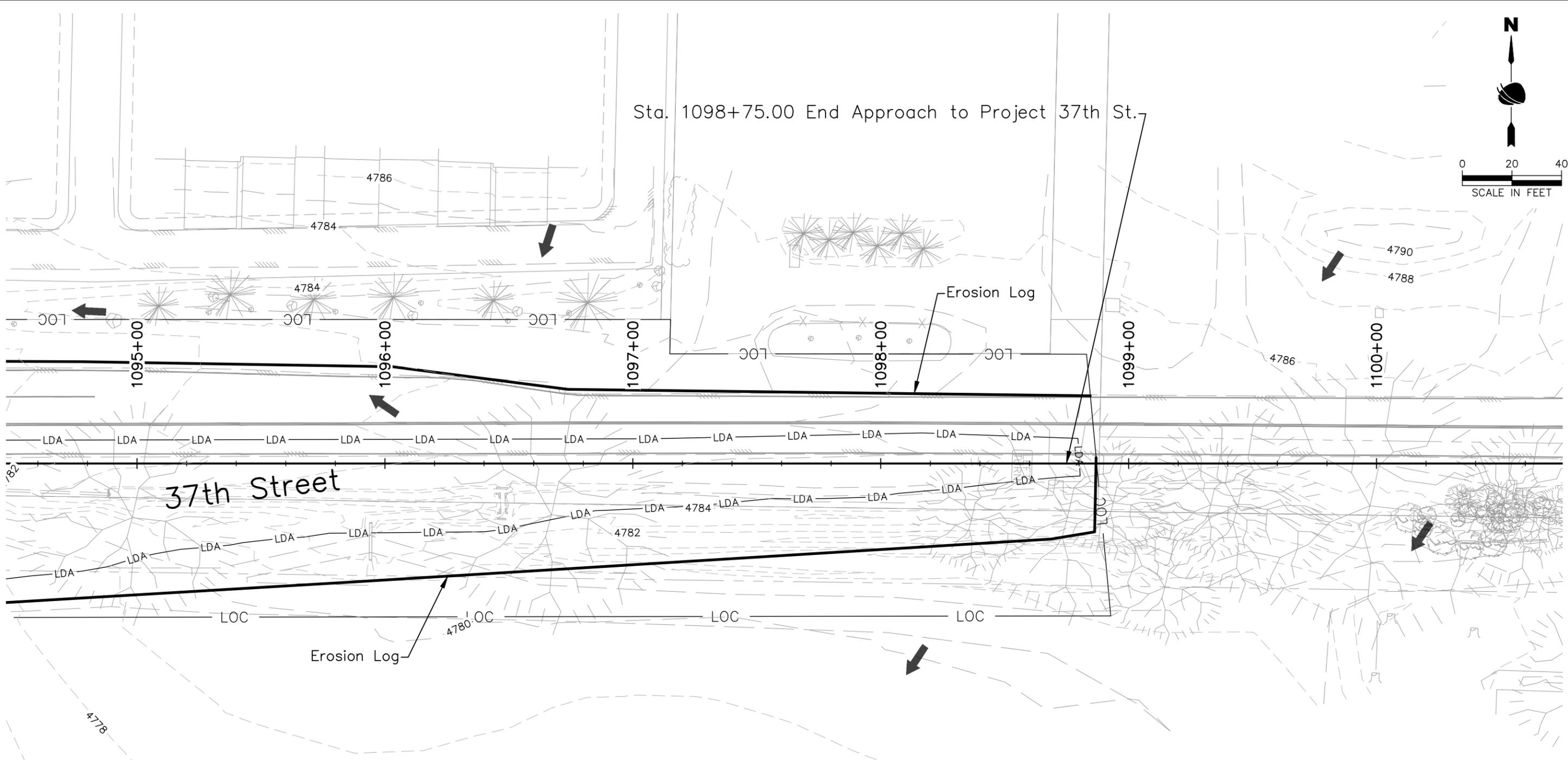
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⤵	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
▬	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▩	STORM DRAIN INLET PROTECTION (TYPE II)
▨	AGGREGATE BAG
⊛	EXISTING WETLANDS
—	WATERS OF THE U.S.
—SF—	SILT FENCE

Print Date: 11/21/2022	
File Name: ENVI P1-007 INITIAL SWMP SITE MAP.DWG	
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Sheet Revisions		
Date	Comments	Initials



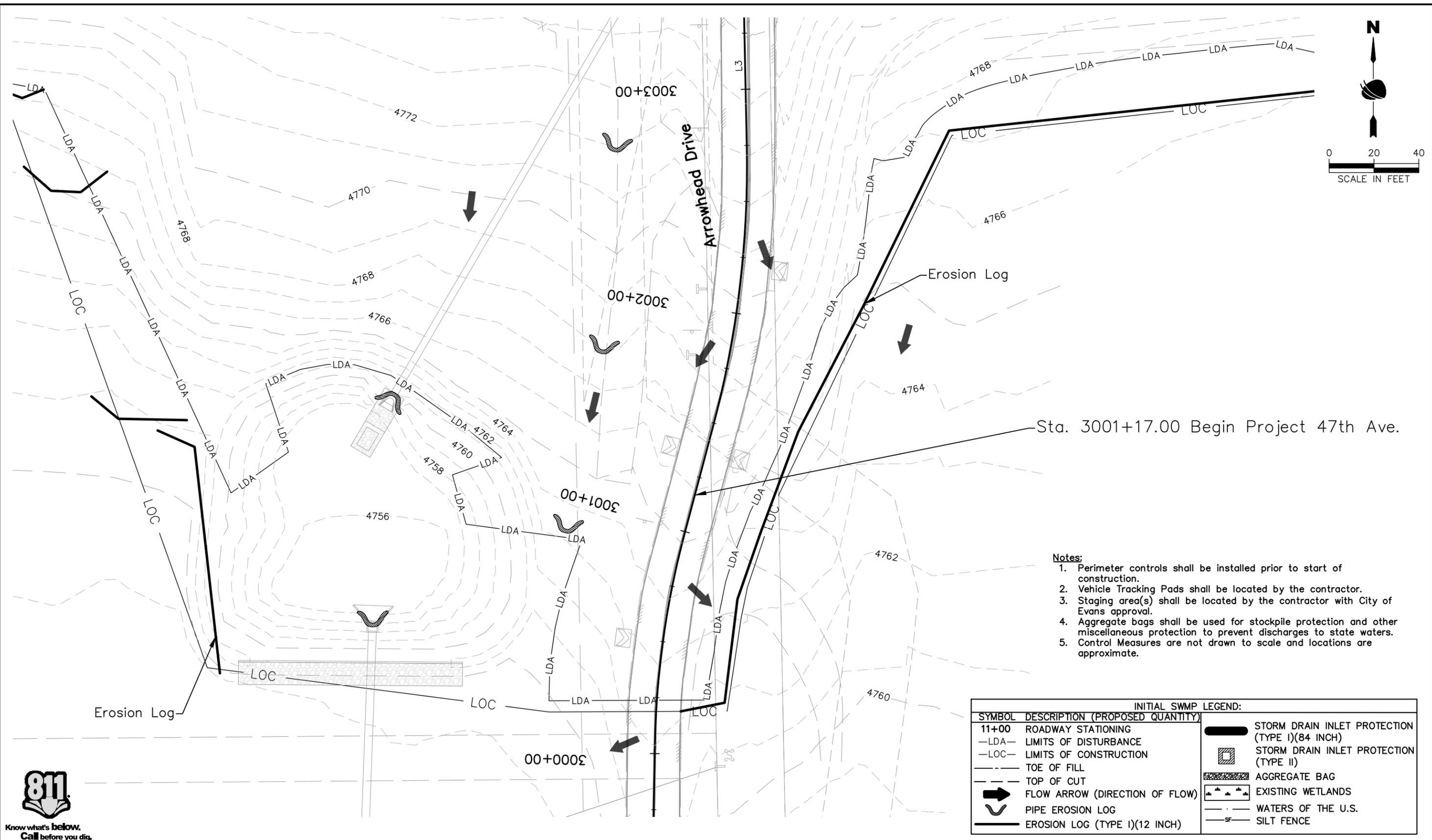
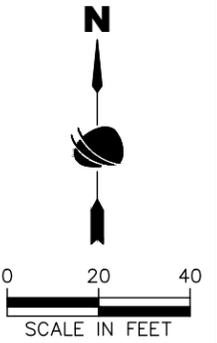
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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 INITIAL SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	Project No. AQC M415-021
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 11 of 27	

Project No. AQC M415-021
Drawing Number ENVI-011
Sheet Number 84

Plot Date: 11/21/2022 9:20 AM Plotted By: Sarah Hemler
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- Notes:**
1. Perimeter controls shall be installed prior to start of construction.
 2. Vehicle Tracking Pads shall be located by the contractor.
 3. Staging area(s) shall be located by the contractor with City of Evans approval.
 4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
 5. Control Measures are not drawn to scale and locations are approximate.

INITIAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
—LDA—	LIMITS OF DISTURBANCE
—LOC—	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
U	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
█	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▣	STORM DRAIN INLET PROTECTION (TYPE II)
▨	AGGREGATE BAG
⋆	EXISTING WETLANDS
---	WATERS OF THE U.S.
—SF—	SILT FENCE



Plot Date: 11/21/2022 9:20 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: ENVI P1-007 INITIAL SWMP SITE MAP.DWG	
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Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
Void:

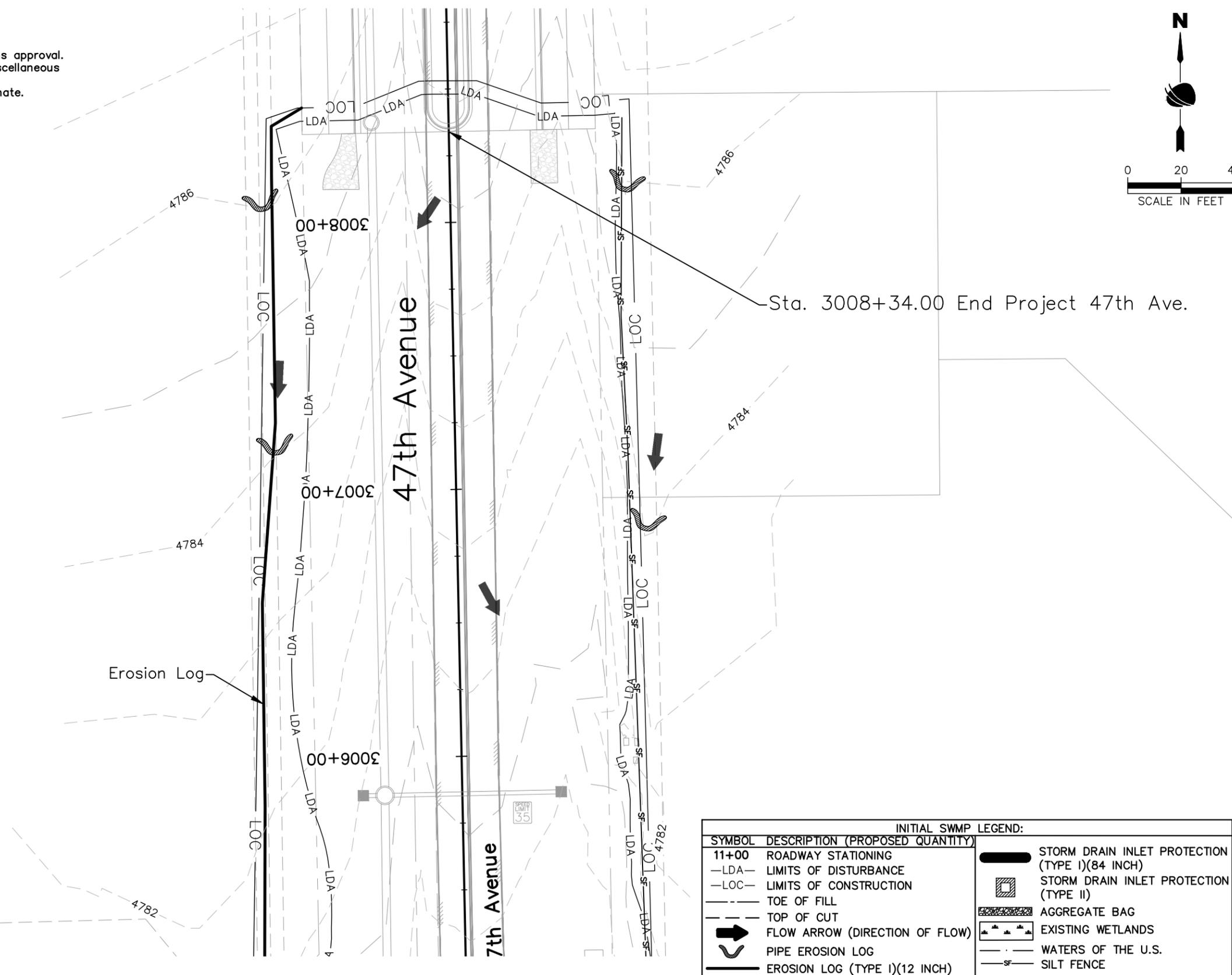
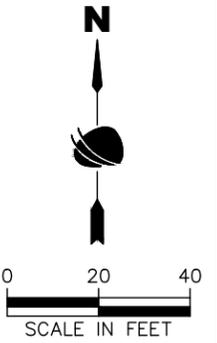
37TH STREET WIDENING PHASE 1 INITIAL SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	Project No. AQC M415-021
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 12 of 27	

Project No. AQC M415-021
Drawing Number ENVI-012
Sheet Number 85

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Notes:

1. Perimeter controls shall be installed prior to start of construction.
2. Vehicle Tracking Pads shall be located by the contractor.
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4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
5. Control Measures are not drawn to scale and locations are approximate.



INITIAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
—LDA—	LIMITS OF DISTURBANCE
—LOC—	LIMITS OF CONSTRUCTION
---	TOE OF FILL
- - -	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
⤿	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
▬	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▩	STORM DRAIN INLET PROTECTION (TYPE II)
▨	AGGREGATE BAG
⊛	EXISTING WETLANDS
—	WATERS OF THE U.S.
-SF-	SILT FENCE



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Print Date: 11/21/2022	
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Sheet Revisions		
Date	Comments	Initials



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Revised:
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37TH STREET WIDENING PHASE 1 INITIAL SWMP SITE MAP		
Designer:	J. Kirkling	Structure Numbers
Detailer:	J. Jensen	
Sheet Subset:	ENVI	Subset Sheets: 13 of 27

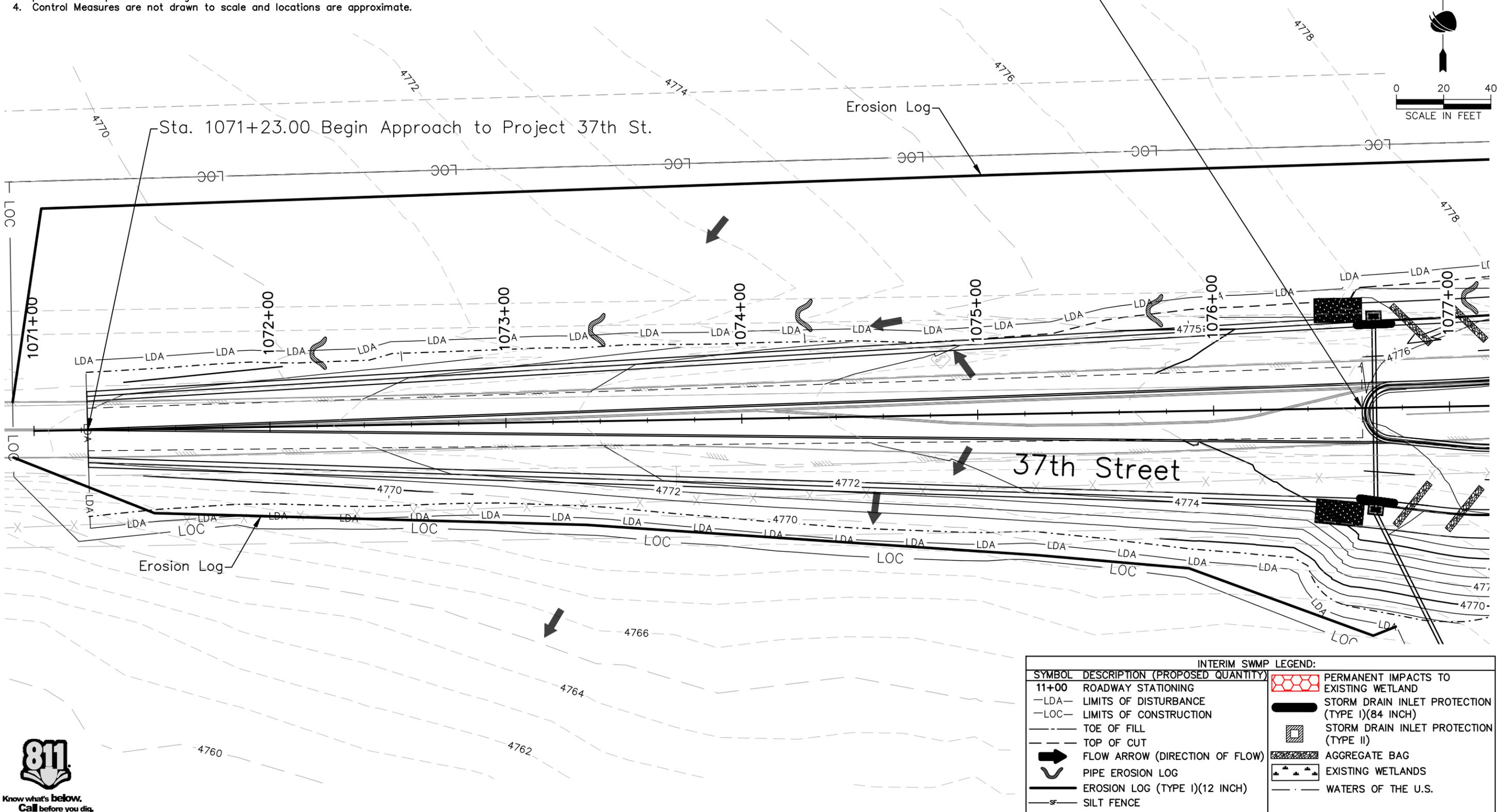
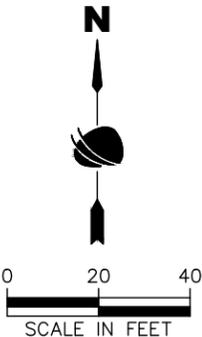
Project No.
AQC M415-021
Drawing Number ENVI-013
Sheet Number 86

ADVERTISEMENT SET 12/1/2022

Notes:

1. Vehicle Tracking Pads shall be located by the contractor.
2. Staging area(s) shall be located by the contractor with City of Evans approval.
3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
4. Control Measures are not drawn to scale and locations are approximate.

Sta. 1076+63.00 End Approach to Project 37th St.
 Sta. 1076+63.00 Begin Project 37th St.



INTERIM SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
~	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
—SF—	SILT FENCE
[Red hatched box]	PERMANENT IMPACTS TO EXISTING WETLAND
[Black rectangle]	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
[Hatched box]	STORM DRAIN INLET PROTECTION (TYPE II)
[Aggregate bag symbol]	AGGREGATE BAG
[Dotted area]	EXISTING WETLANDS
---	WATERS OF THE U.S.



Print Date: 11/21/2022
 File Name: ENVI P1-014 INTERIM SWMP SITE MAP.DWG
 Horiz. Scale: As Noted Vert. Scale: N/A

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Date	Comments	Initials



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 Revised:
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**37TH STREET WIDENING PHASE 1
 INTERIM SWMP SITE MAP**

Designer: J. Kirkling
 Detailer: J. Jensen
 Sheet Subset: ENVI

Structure Numbers
 Subset Sheets: 14 of 27

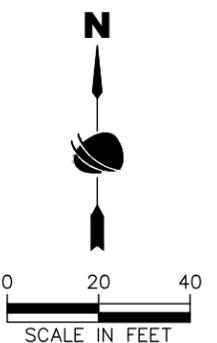
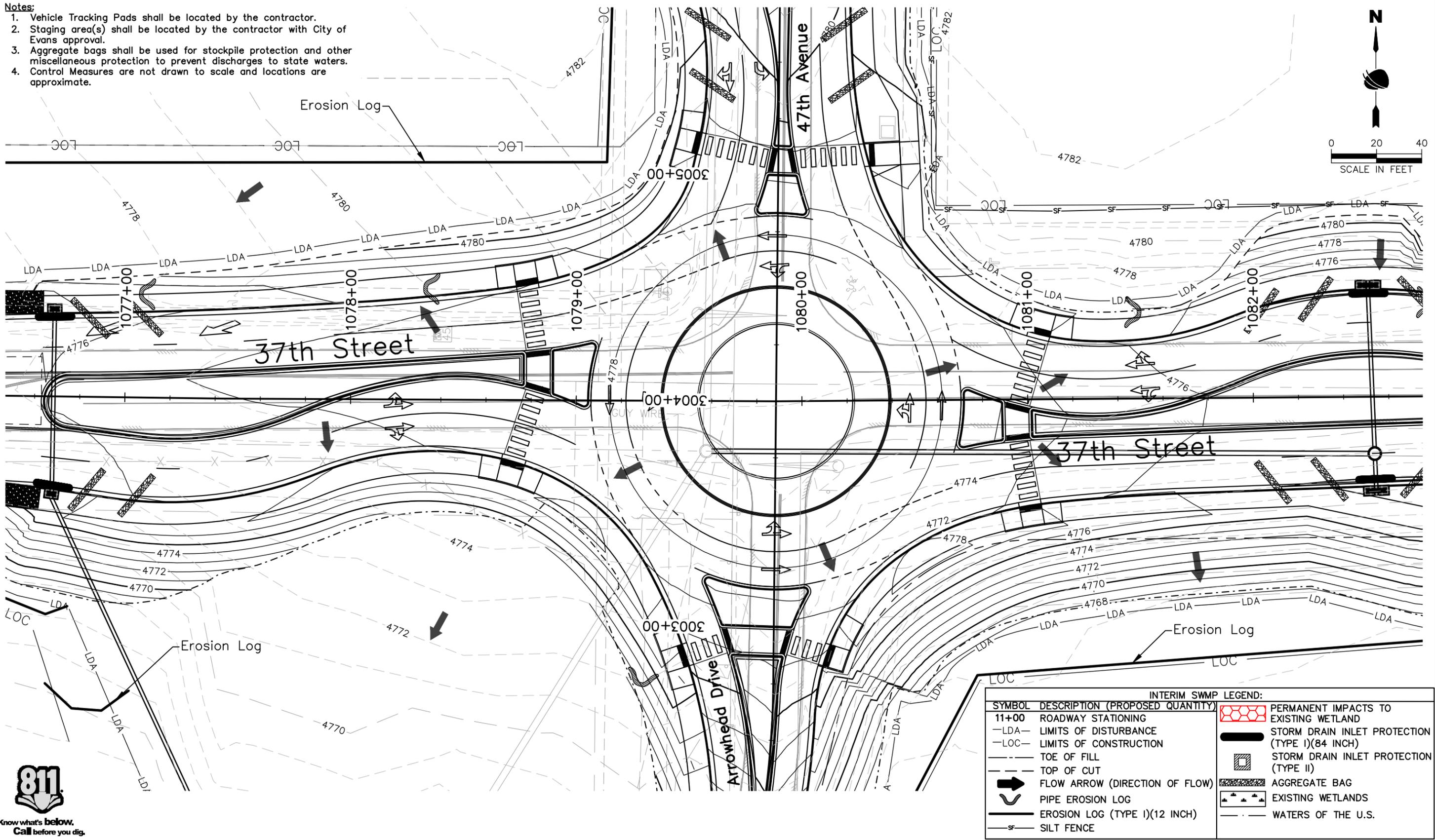
Project No.
 AQC M415-021

Drawing Number ENVI-014
 Sheet Number 87

Plot Date: 11/21/2022 9:21 AM Plotted By: Sarah Hemler
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- Notes:**
1. Vehicle Tracking Pads shall be located by the contractor.
 2. Staging area(s) shall be located by the contractor with City of Evans approval.
 3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
 4. Control Measures are not drawn to scale and locations are approximate.



INTERIM SWMP LEGEND:			
11+00	ROADWAY STATIONING		PERMANENT IMPACTS TO EXISTING WETLAND
-LDA-	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE II)
- - -	TOE OF FILL		AGGREGATE BAG
- - -	TOP OF CUT		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		WATERS OF THE U.S.
	PIPE EROSION LOG		
	EROSION LOG (TYPE I)(12 INCH)		
-SF-	SILT FENCE		



Print Date: 11/21/2022
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Date	Comments	Initials



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37TH STREET WIDENING PHASE 1 INTERIM SWMP SITE MAP

Designer: J. Kirkling
 Detailer: J. Jensen
 Sheet Subset: ENVI

Structure Numbers:
 Subset Sheets: 15 of 27

Project No.
 AQC M415-021

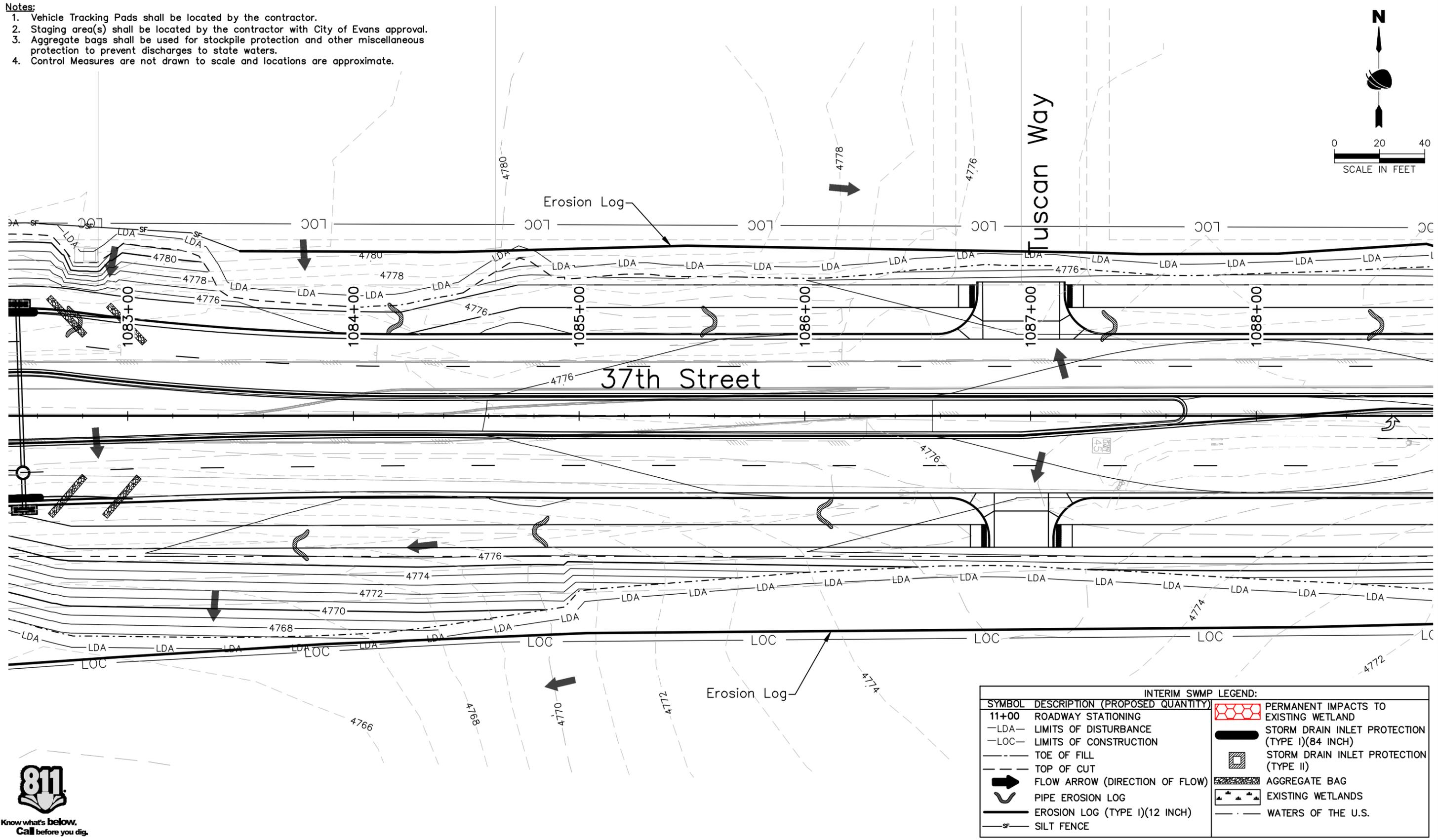
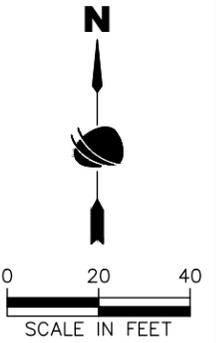
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Notes:

1. Vehicle Tracking Pads shall be located by the contractor.
2. Staging area(s) shall be located by the contractor with City of Evans approval.
3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
4. Control Measures are not drawn to scale and locations are approximate.



INTERIM SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
SF	SILT FENCE
	PERMANENT IMPACTS TO EXISTING WETLAND
	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
	STORM DRAIN INLET PROTECTION (TYPE II)
	AGGREGATE BAG
	EXISTING WETLANDS
	WATERS OF THE U.S.



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Sheet Revisions		
Date	Comments	Initials



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37TH STREET WIDENING PHASE 1 INTERIM SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 16 of 27	

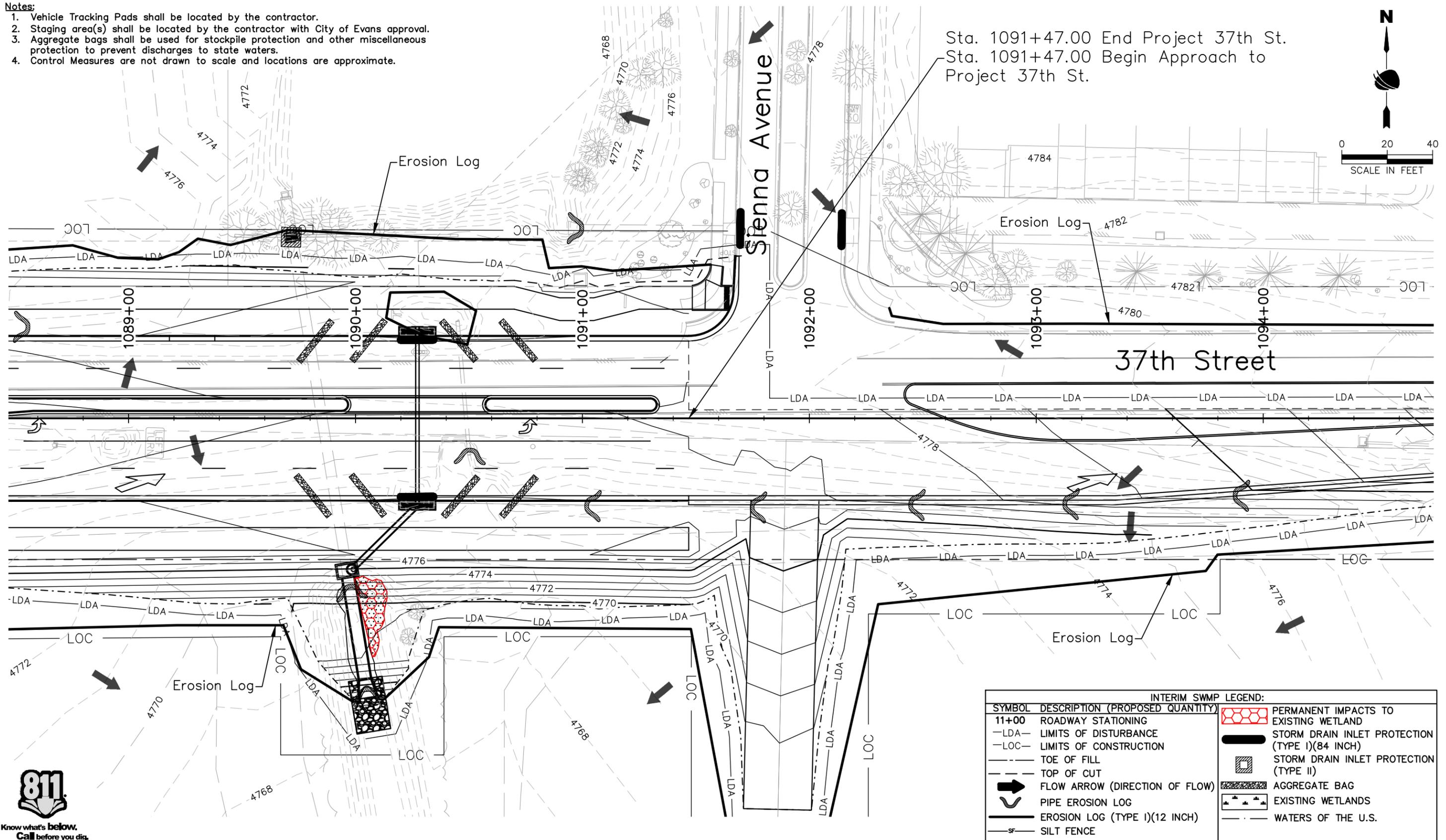
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AQC M415-021
Drawing Number ENVI-016
Sheet Number 89

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Notes:

1. Vehicle Tracking Pads shall be located by the contractor.
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3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
4. Control Measures are not drawn to scale and locations are approximate.



Sta. 1091+47.00 End Project 37th St.
 Sta. 1091+47.00 Begin Approach to Project 37th St.

INTERIM SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
~	PIPE EROSION LOG
---	EROSION LOG (TYPE I)(12 INCH)
SF	SILT FENCE
[Red Hatched Box]	PERMANENT IMPACTS TO EXISTING WETLAND
[Black Bar]	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
[Hatched Box]	STORM DRAIN INLET PROTECTION (TYPE II)
[Aggregate Bag]	AGGREGATE BAG
[Wavy Line]	EXISTING WETLANDS
[Dashed Line]	WATERS OF THE U.S.



Print Date: 11/21/2022
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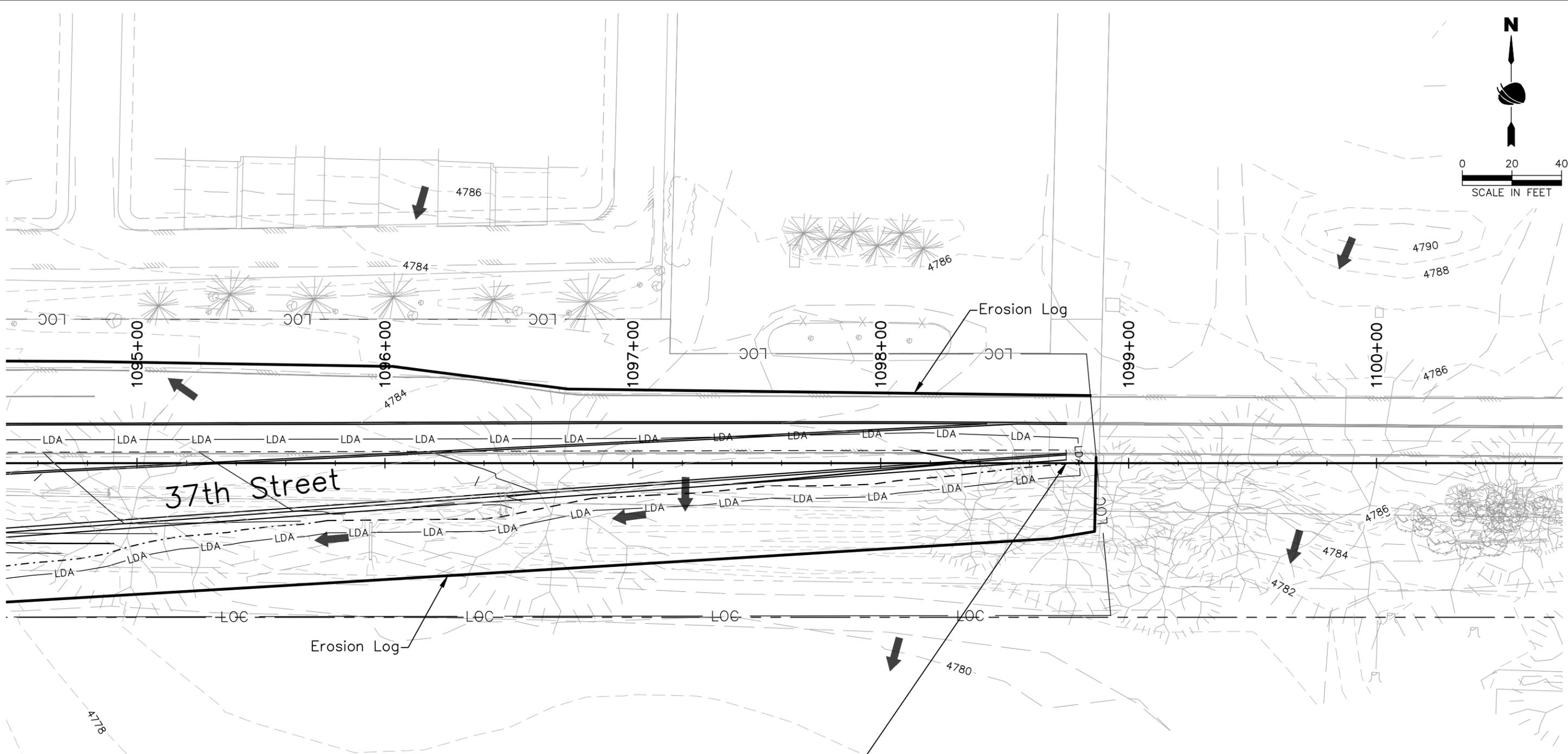
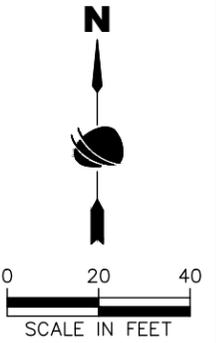
37TH STREET WIDENING PHASE 1 INTERIM SWMP SITE MAP

Designer: J. Kirkling
 Detailer: J. Jensen
 Sheet Subset: ENVI Subset Sheets: 17 of 27

Project No.
 AQC M415-021
 Drawing Number ENVI-017
 Sheet Number 90

Plot Date: 11/21/2022 9:21 AM Plotted By: Sarah Hamler
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Sta. 1098+75.00 End Approach to Project 37th St.

- Notes:**
1. Vehicle Tracking Pads shall be located by the contractor.
 2. Staging area(s) shall be located by the contractor with City of Evans approval.
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 4. Control Measures are not drawn to scale and locations are approximate.

INTERIM SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
—SF—	SILT FENCE
	PERMANENT IMPACTS TO EXISTING WETLAND
	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
	STORM DRAIN INLET PROTECTION (TYPE II)
	AGGREGATE BAG
	EXISTING WETLANDS
	WATERS OF THE U.S.



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Date	Comments	Initials



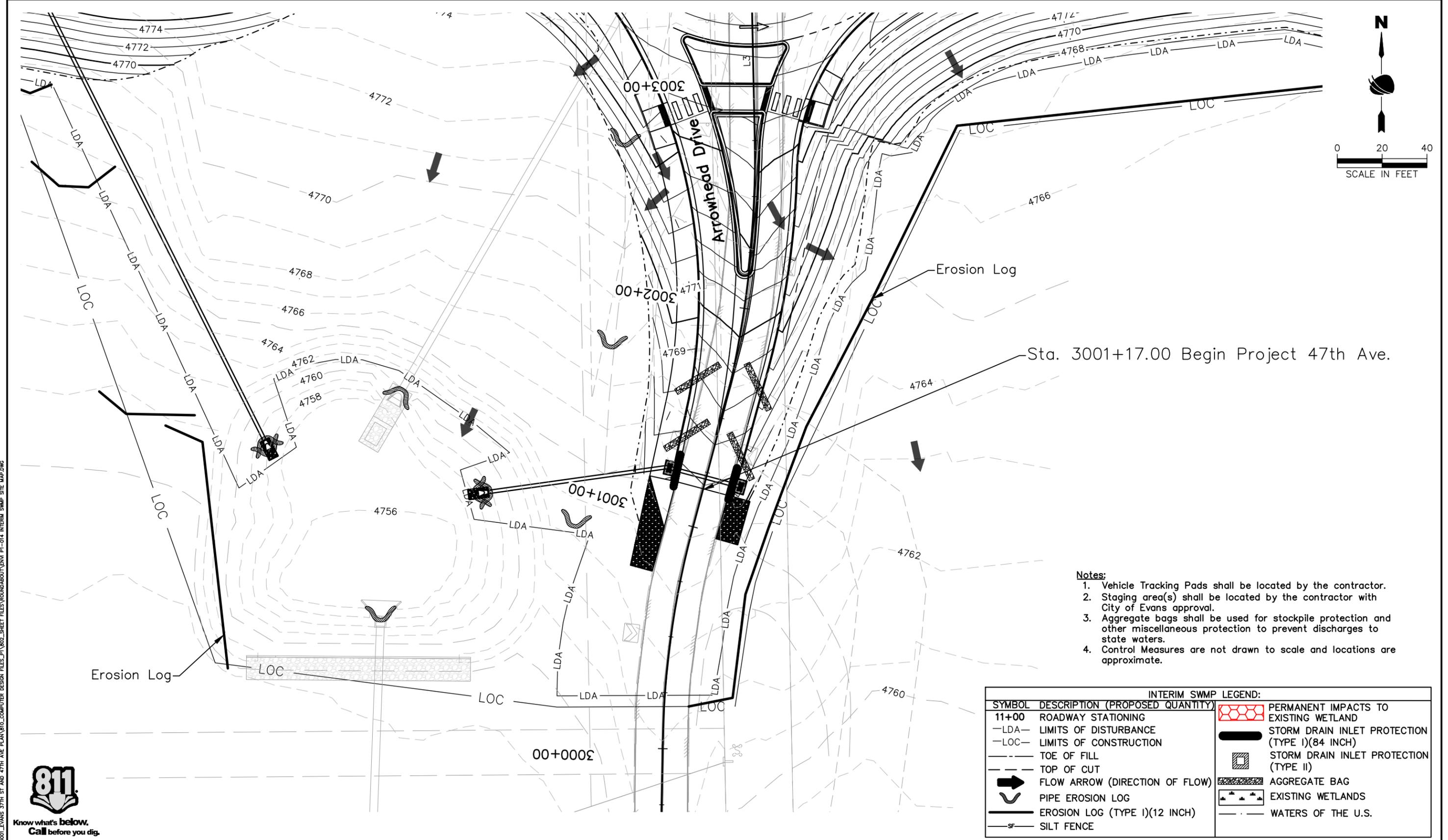
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Revised:
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37TH STREET WIDENING PHASE 1 INTERIM SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	Project No. AQC M415-021
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 18 of 27	

Project No. AQC M415-021
Drawing Number ENVI-018
Sheet Number 91

Plot Date: 11/21/2022 9:21 AM Plotted By: Sarah Hamler
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Sta. 3001+17.00 Begin Project 47th Ave.

- Notes:**
1. Vehicle Tracking Pads shall be located by the contractor.
 2. Staging area(s) shall be located by the contractor with City of Evans approval.
 3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
 4. Control Measures are not drawn to scale and locations are approximate.

INTERIM SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
—SF—	EROSION LOG (TYPE I)(12 INCH)
—SF—	SILT FENCE
	PERMANENT IMPACTS TO EXISTING WETLAND
	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
	STORM DRAIN INLET PROTECTION (TYPE II)
	AGGREGATE BAG
	EXISTING WETLANDS
	WATERS OF THE U.S.



Print Date: 11/21/2022	
File Name: ENVI P1-014 INTERIM SWMP SITE MAP.DWG	
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Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
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37TH STREET WIDENING PHASE 1 INTERIM SWMP SITE MAP		
Designer:	J. Kirkling	Structure Numbers
Detailer:	J. Jensen	Structure Numbers
Sheet Subset:	ENVI	Subset Sheets: 19 of 27

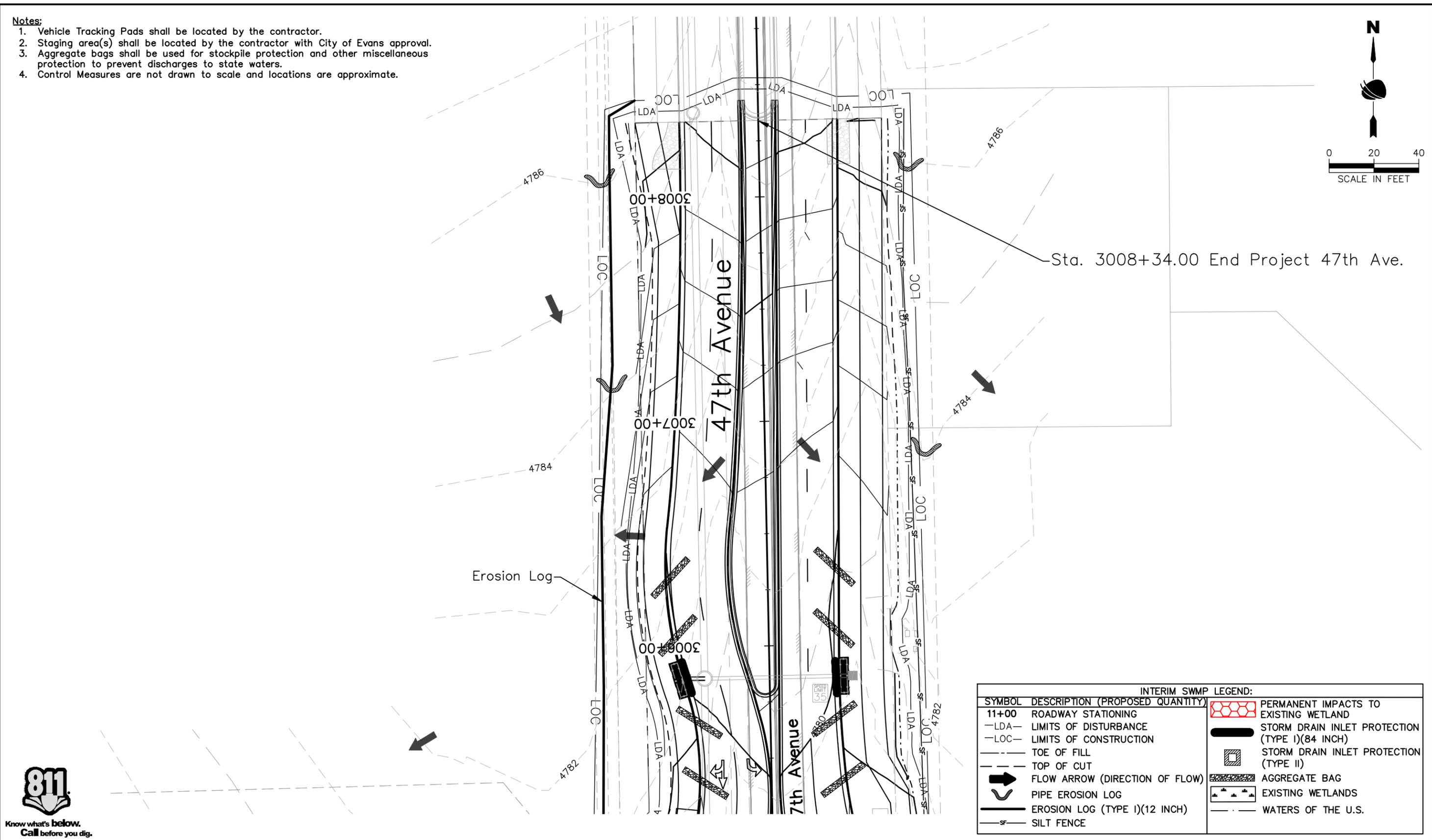
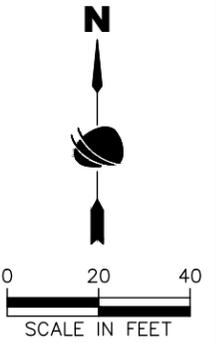
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Drawing Number ENVI-019
Sheet Number 92

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Notes:

1. Vehicle Tracking Pads shall be located by the contractor.
2. Staging area(s) shall be located by the contractor with City of Evans approval.
3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
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INTERIM SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
SF	SILT FENCE
	PERMANENT IMPACTS TO EXISTING WETLAND
	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
	STORM DRAIN INLET PROTECTION (TYPE II)
	AGGREGATE BAG
	EXISTING WETLANDS
	WATERS OF THE U.S.



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Print Date: 11/21/2022	
File Name: ENVI P1-014 INTERIM SWMP SITE MAP.DWG	
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Sheet Revisions		
Date	Comments	Initials



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Revised:
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37TH STREET WIDENING PHASE 1 INTERIM SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 20 of 27	

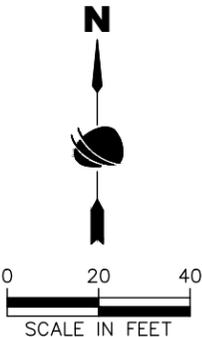
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Drawing Number ENVI-020
Sheet Number 93

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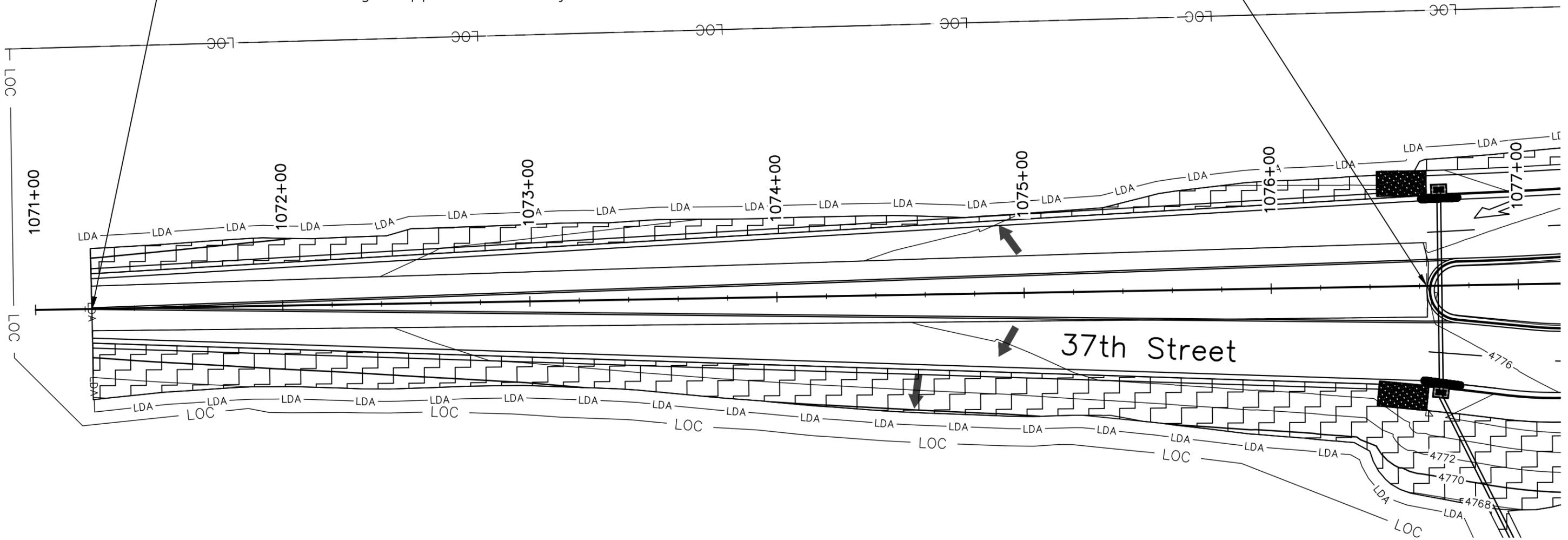
Notes:

1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
2. Control Measures are not drawn to scale and locations are approximate.

Sta. 1076+63.00 End Approach to Project 37th St.
 Sta. 1076+63.00 Begin Project 37th St.



Sta. 1071+23.00 Begin Approach to Project 37th St.



FINAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
⬮	PERMANENT IMPACTS TO EXISTING WETLAND
▬	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▩	STORM DRAIN INLET PROTECTION (TYPE II)
▨	NATIVE SEED MIX (TYPE I)
▩	NATIVE SEED MIX (TYPE II)



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Sheet Revisions		
Date	Comments	Initials



As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 FINAL SWMP SITE MAP	
Designer: J. Kirkling	Structure Numbers
Detailer: J. Jensen	
Sheet Subset: ENVI	Subset Sheets: 21 of 27

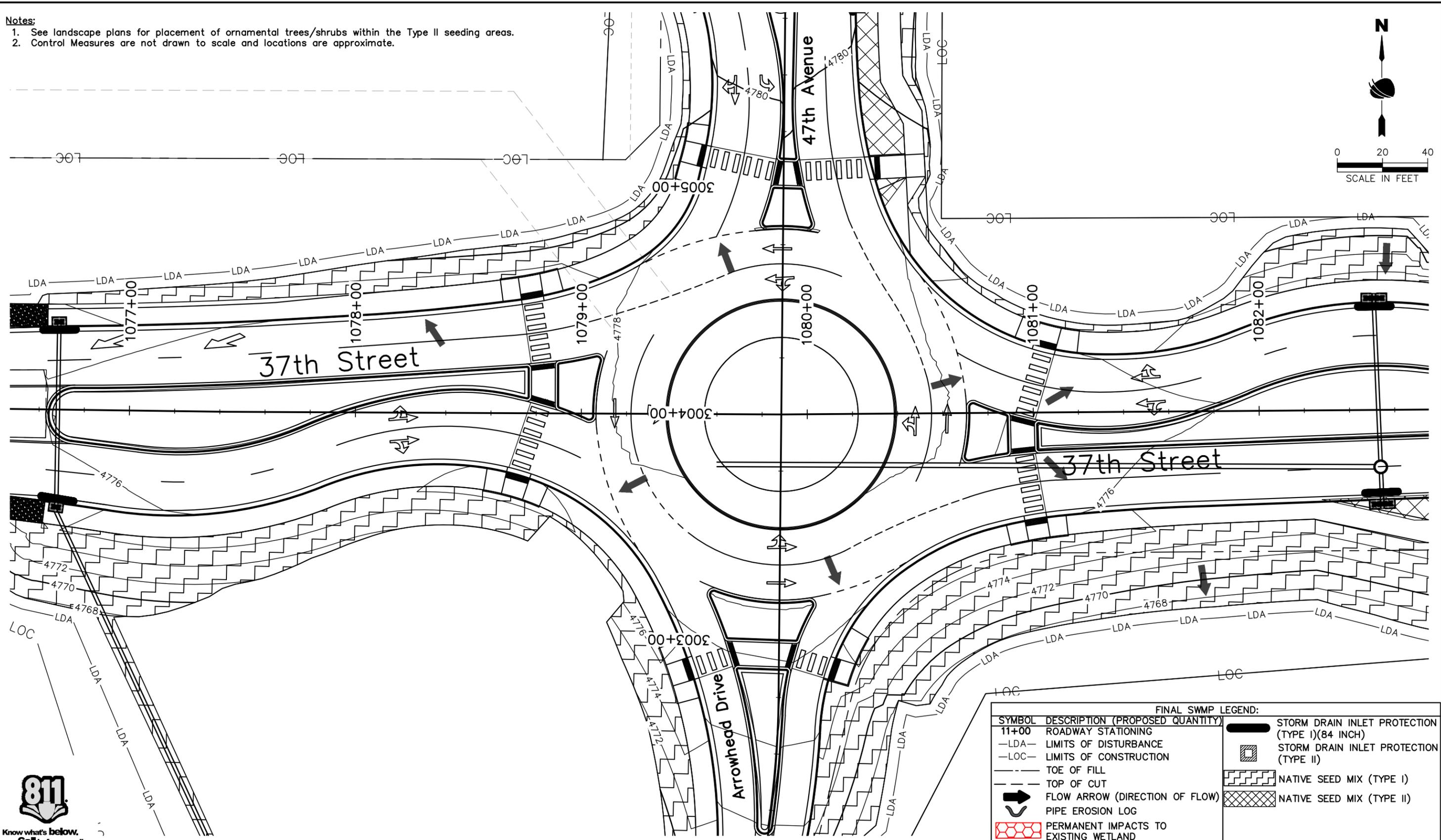
Project No.
AQC M415-021
Drawing Number ENVI-021
Sheet Number 94

Plot Date: 11/21/2022 9:22 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

Notes:

1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
2. Control Measures are not drawn to scale and locations are approximate.



FINAL SWMP LEGEND:			
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
-LDA-	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE II)
-LOC-	LIMITS OF CONSTRUCTION		NATIVE SEED MIX (TYPE I)
- - -	TOE OF FILL		NATIVE SEED MIX (TYPE II)
- - -	TOP OF CUT		PERMANENT IMPACTS TO EXISTING WETLAND
	FLOW ARROW (DIRECTION OF FLOW)		
	PIPE EROSION LOG		



Print Date: 11/21/2022
 File Name: ENVI P1-021 FINAL SWMP SITE MAP.DWG
 Horiz. Scale: As Noted Vert. Scale: N/A

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Sheet Revisions		
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**37TH STREET WIDENING PHASE 1
 FINAL SWMP SITE MAP**

Designer: J. Kirkling
 Detailer: J. Jensen
 Sheet Subset: ENVI Subset Sheets: 22 of 27

Project No.
 AQC M415-021
 Drawing Number ENVI-022
 Sheet Number 95

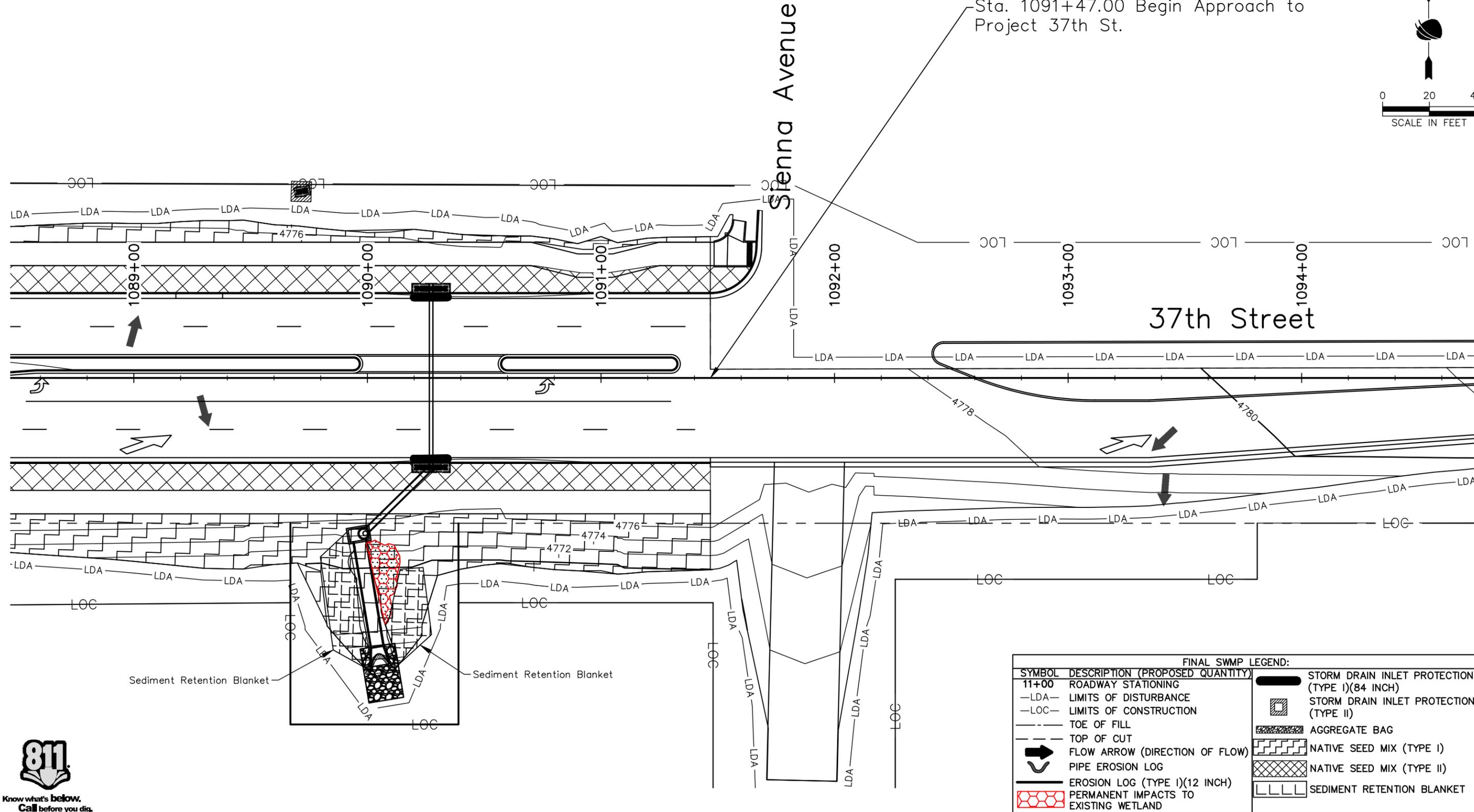
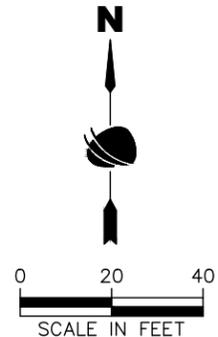
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ADVERTISEMENT SET 12/1/2022

Notes:

1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
2. Control Measures are not drawn to scale and locations are approximate.

Sta. 1091+47.00 End Project 37th St.
Sta. 1091+47.00 Begin Approach to Project 37th St.



FINAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
- - -	TOE OF FILL
- - -	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
—	EROSION LOG (TYPE I)(12 INCH)
⬠	PERMANENT IMPACTS TO EXISTING WETLAND
⬠	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
⬠	STORM DRAIN INLET PROTECTION (TYPE II)
⬠	AGGREGATE BAG
⬠	NATIVE SEED MIX (TYPE I)
⬠	NATIVE SEED MIX (TYPE II)
⬠	SEDIMENT RETENTION BLANKET



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Plot Date: 11/21/2022 9:22 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022
File Name: ENV P1-021 FINAL SWMP SITE MAP.DWG
Horiz. Scale: As Noted Vert. Scale: N/A
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



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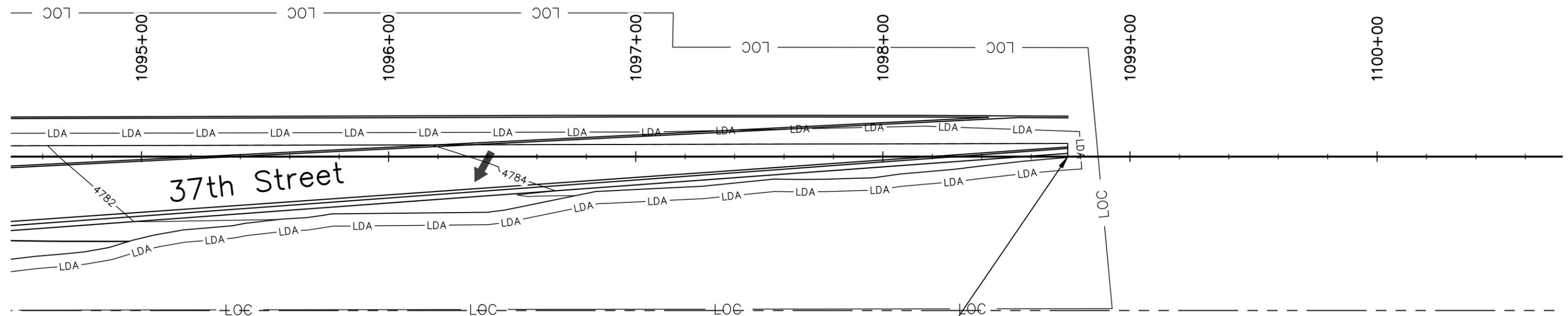
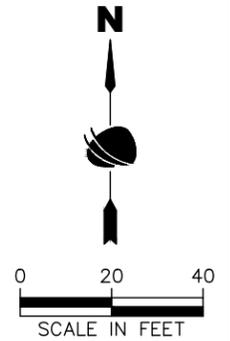
37TH STREET WIDENING PHASE 1 FINAL SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 24 of 27	

Project No.
AQC M415-021
Drawing Number ENVI-024
Sheet Number 97

ADVERTISEMENT SET 12/1/2022

Notes:

1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
2. Control Measures are not drawn to scale and locations are approximate.



Sta. 1098+75.00 End Approach to Project 37th St.

Notes:

1. Vehicle Tracking Pads shall be located by the contractor.
2. Staging area(s) shall be located by the contractor with City of Evans approval.
3. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
4. Control Measures are not drawn to scale and locations are approximate.
5. See landscape maintenance plans for detailed final stabilization.



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FINAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
---	TOE OF FILL
- - -	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
⌋	PIPE EROSION LOG
⊞	PERMANENT IMPACTS TO EXISTING WETLAND
▬	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▩	STORM DRAIN INLET PROTECTION (TYPE II)
▨	NATIVE SEED MIX (TYPE I)
▩	NATIVE SEED MIX (TYPE II)

Plot Date: 11/21/2022 9:22 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: ENVI P1-021 FINAL SWMP SITE MAP.DWG	
Horiz. Scale: As Noted	Vert. Scale: N/A
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Sheet Revisions		
Date	Comments	Initials

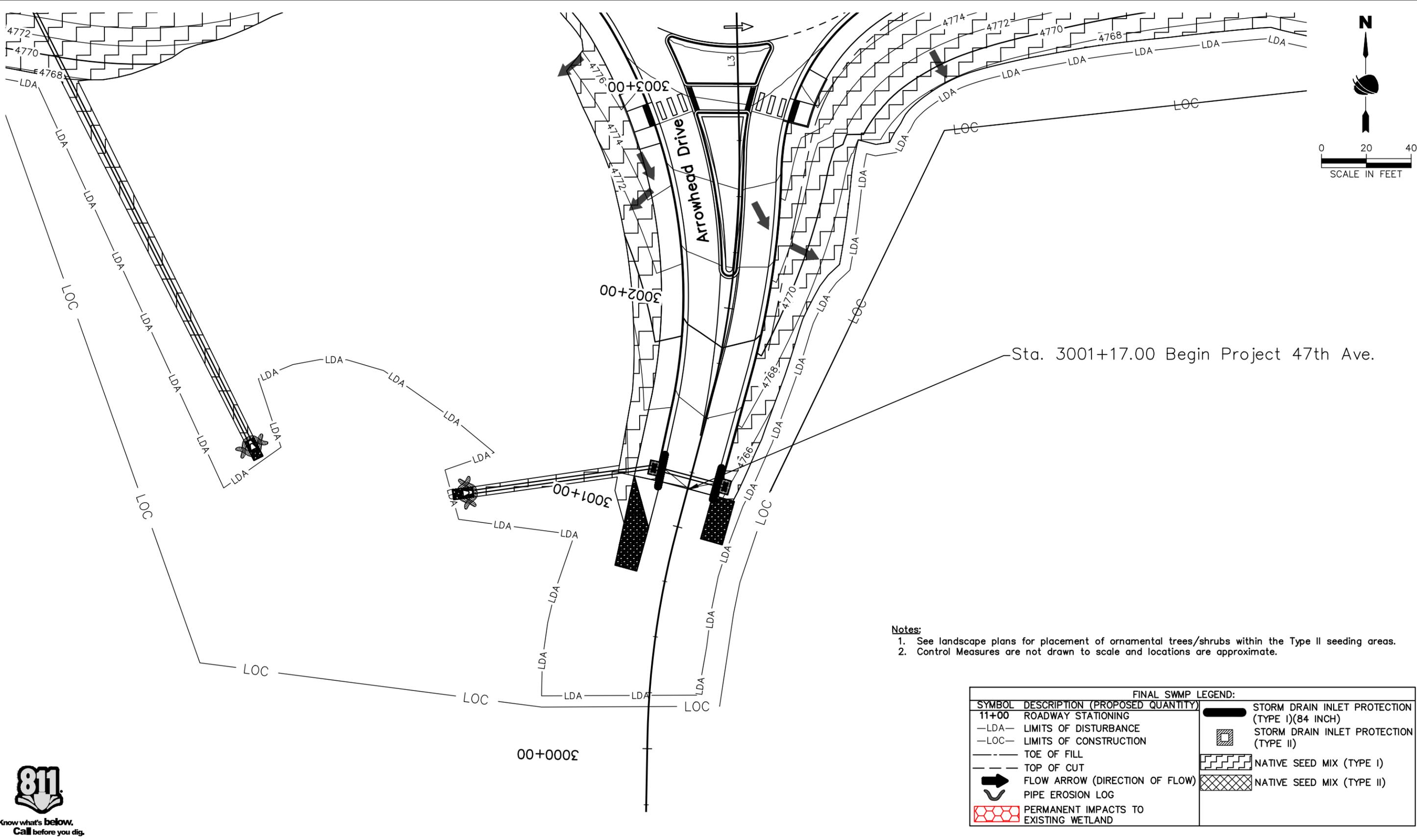


As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 FINAL SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 25 of 27	

Project No.
AQC M415-021
Drawing Number ENVI-025
Sheet Number 98

ADVERTISEMENT SET 12/1/2022



Sta. 3001+17.00 Begin Project 47th Ave.

Notes:

1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
2. Control Measures are not drawn to scale and locations are approximate.

FINAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
—LDA—	LIMITS OF DISTURBANCE
—LOC—	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
⬮	PERMANENT IMPACTS TO EXISTING WETLAND
▬	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▩	STORM DRAIN INLET PROTECTION (TYPE II)
▨	NATIVE SEED MIX (TYPE I)
▩	NATIVE SEED MIX (TYPE II)



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Print Date: 11/21/2022	
File Name: ENVI P1-021 FINAL SWMP SITE MAP.DWG	
Horiz. Scale: As Noted	Vert. Scale: N/A
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Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 FINAL SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	Project No. AQC M415-021
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 26 of 27	

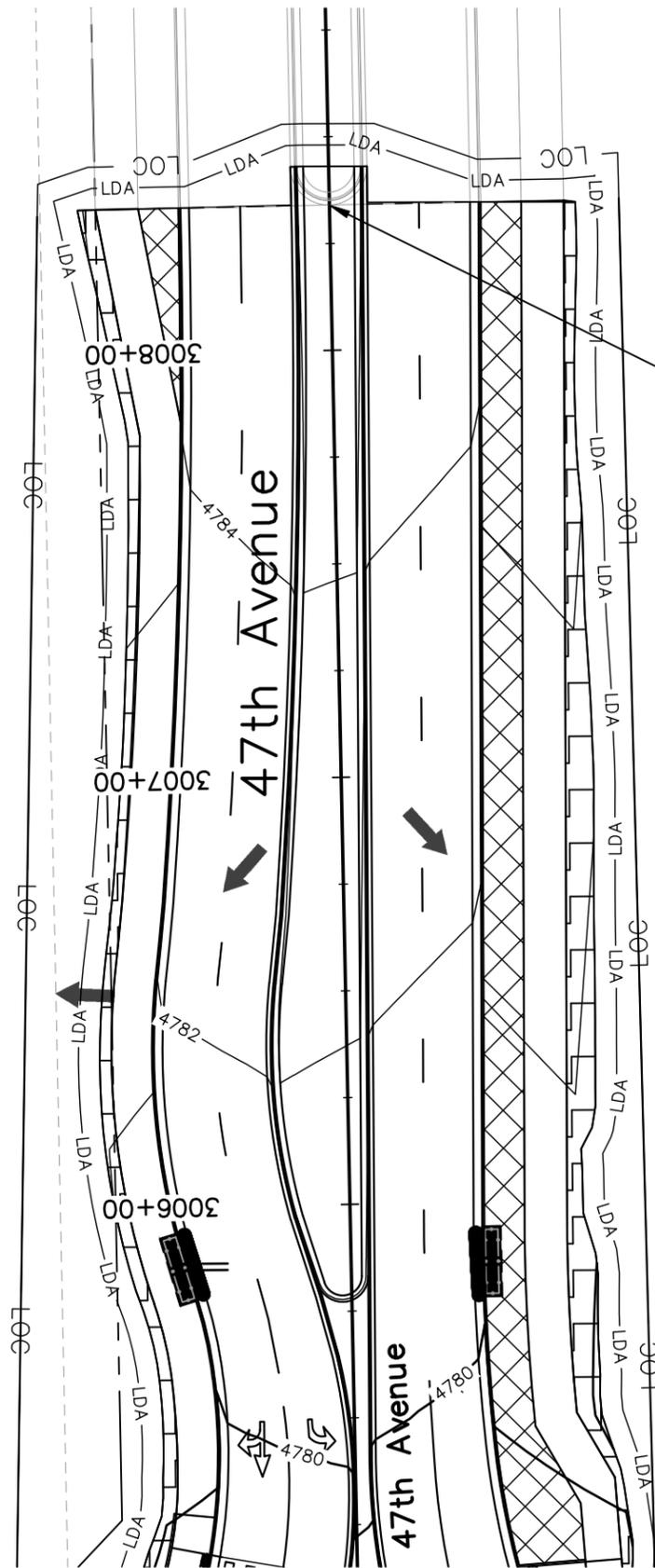
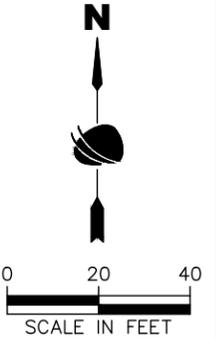
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Drawing Number ENVI-026
Sheet Number 99

Plot Date: 11/21/2022 9:22 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

Notes:

1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
2. Control Measures are not drawn to scale and locations are approximate.



Sta. 3008+34.00 End Project 47th Ave.

FINAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
- - -	TOE OF FILL
- - -	TOP OF CUT
→	FLOW ARROW (DIRECTION OF FLOW)
⤵	PIPE EROSION LOG
⬮	PERMANENT IMPACTS TO EXISTING WETLAND
▬	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
▩	STORM DRAIN INLET PROTECTION (TYPE II)
▨	NATIVE SEED MIX (TYPE I)
▩	NATIVE SEED MIX (TYPE II)



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Print Date: 11/21/2022	
File Name: ENVI P1-021 FINAL SWMP SITE MAP.DWG	
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12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date	Comments	Initials

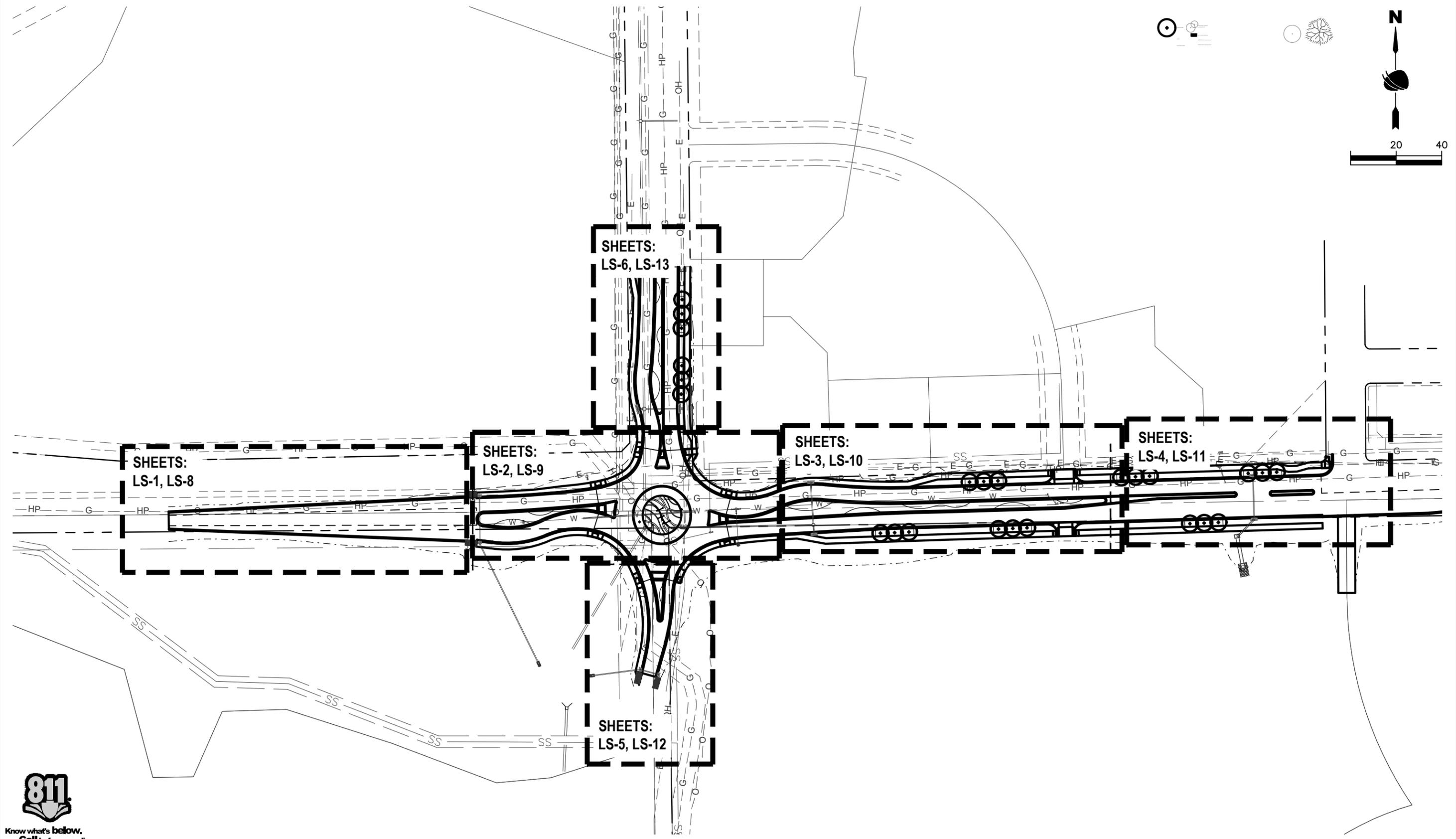


As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 FINAL SWMP SITE MAP		
Designer: J. Kirkling	Structure Numbers	
Detailer: J. Jensen		
Sheet Subset: ENVI	Subset Sheets: 27 of 27	

Project No.
AQC M415-021
Drawing Number ENVI-027
Sheet Number 100

ADVERTISEMENT SET 12/1/2022



Plot Date: 2/15/2022 8:01 AM Plotted By: David Elger
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 File Name:
 Horiz. Scale: As Noted Vert. Scale: As Noted




Sheet Revisions		
Date:	Comments	Init.



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 LANDSCAPE PLAN		
Designer:	DE	Structure
Detailer:	DE	Numbers
Sheet Subset: LANDSCAPE	Subset Sheets: 1 of 22	

Project No.
AQC M415-021
Drawing Number LS-C
Sheet Number 101

ADVERTISEMENT SET 12/1/2022

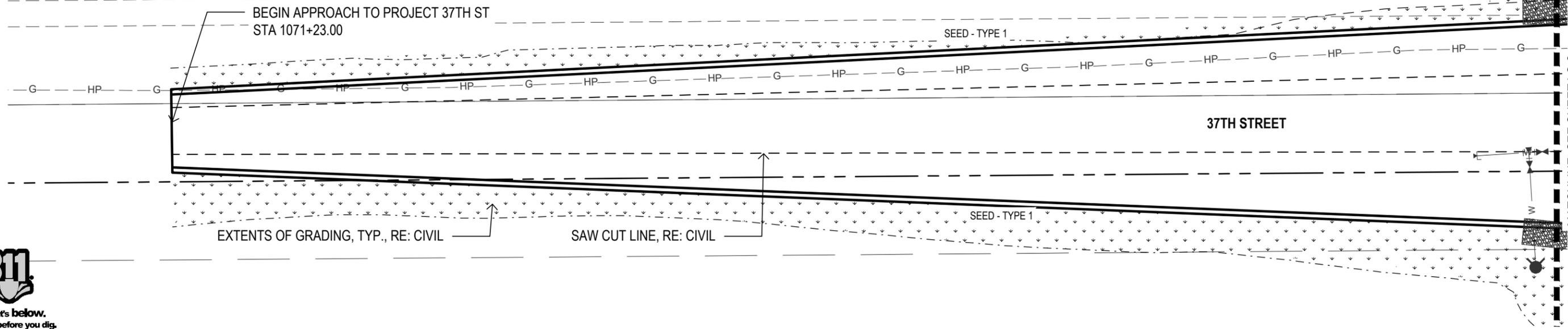
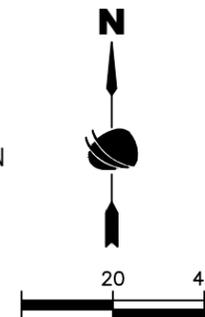
LEGEND

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUBS
-  ORNAMENTAL GRASS
-  PERENNIAL
-  SEED - TYPE 1, RE: SWMP
-  SEED - TYPE 2, RE: SWMP

SUMMARY OF QUANTITIES

ITEM #	ITEM DESC.	UNIT	QTY
207-00405	Topsoil (Special) - 4" at Sod and 6" Beds outside of Median, 18" In Median	CY	1137
213-00005	Wood (Organic) Mulch (Brown Western Cedar)(4" Depth)	CY	1458
213-00067	Inorganic Mulch (1.5" to 3" Tan River Rock)(3" Depth)(Special)	SF	5648
213-00440	Metal Landscape Border (1/8" x 4")	LF	1280
213-00318	18 Inch Root Barrier	LF	1200
213-00705	Landscape Boulder A (Siloam)(4'l. x 2'w. x 2'h.)(Special)	EACH	73
213-00705	Landscape Boulder B (Siloam) (3'l. x 2'w. x 2'h.)(Special)	EACH	51
213-00705	Landscape Boulder C (Siloam) (2'l. x 2'w. x 2'h.)(Special)	EACH	56
214-00220	Deciduous Tree (2" Cal.)	EACH	24
214-00230	Deciduous Ornamental Tree (1.5" Cal.)	EACH	16
214-00350	Deciduous Shrub (5 Gal.)	EACH	177
214-00650	Evergreen Shrub (5 Gal.)	EACH	45
214-00908	Ornamental Grasses and Perennials (1 Gal.)	EACH	161
608-01500	Aggregate Walkways (dark-grey crusher fines) (3" d.)	SY	34
614-00037	Sign Panel (Corten)(Special)	EACH	3
614-00041	Sign Posts and Sign Structures (Gabion Wall) (Special)	EACH	13
623-09900	Irrigation System	LS	1

NOTES:
 CONTRACTOR RESPONSIBLE FOR
 RESTORING AREAS AFFECTED BY
 GRADING OR CONSTRUCTION BEYOND
 THOSE AREAS INDICATED ON THIS PLAN



Plot Date: 2/15/2022 9:01 AM Plotted By: David Elger
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811
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Date:	Comments	Init.



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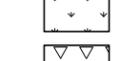
37TH STREET WIDENING PHASE 1
 LANDSCAPE PLAN

Designer: DE
 Detailer: DE
 Structure Numbers
 Sheet Subset: LANDSCAPE
 Subset Sheets: 2 of 22

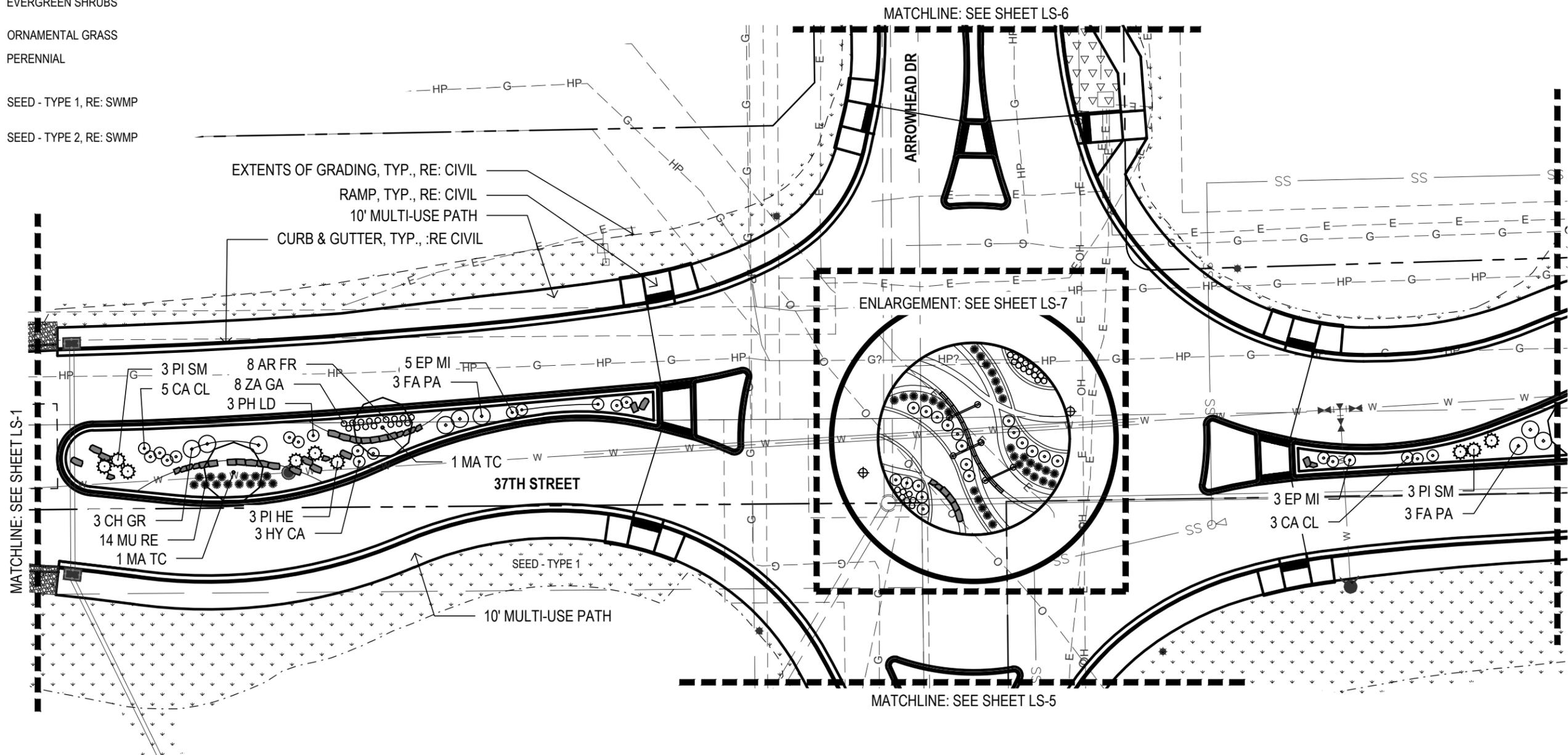
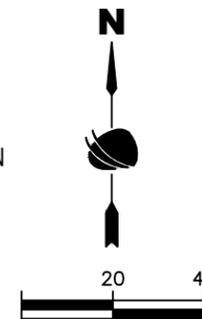
Project No.
 AQC M415-021
 Drawing Number LS-1
 Sheet Number 102

ADVERTISEMENT SET 12/1/2022

LEGEND

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUBS
-  ORNAMENTAL GRASS
-  PERENNIAL
-  SEED - TYPE 1, RE: SWMP
-  SEED - TYPE 2, RE: SWMP

NOTES:
 CONTRACTOR RESPONSIBLE FOR
 RESTORING AREAS AFFECTED BY
 GRADING OR CONSTRUCTION BEYOND
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 File Name:
 Horiz. Scale: As Noted Vert. Scale: As Noted



Sheet Revisions

Date:	Comments	Init.



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 No Revisions:
 Revised:
 Void:

37TH STREET WIDENING PHASE 1
 LANDSCAPE PLAN

Designer: DE
 Detailer: DE
 Sheet Subset: LANDSCAPE
 Structure Numbers
 Subset Sheets: 3 of 22

Project No.
 AQC M415-021
 Drawing Number LS-2
 Sheet Number 103

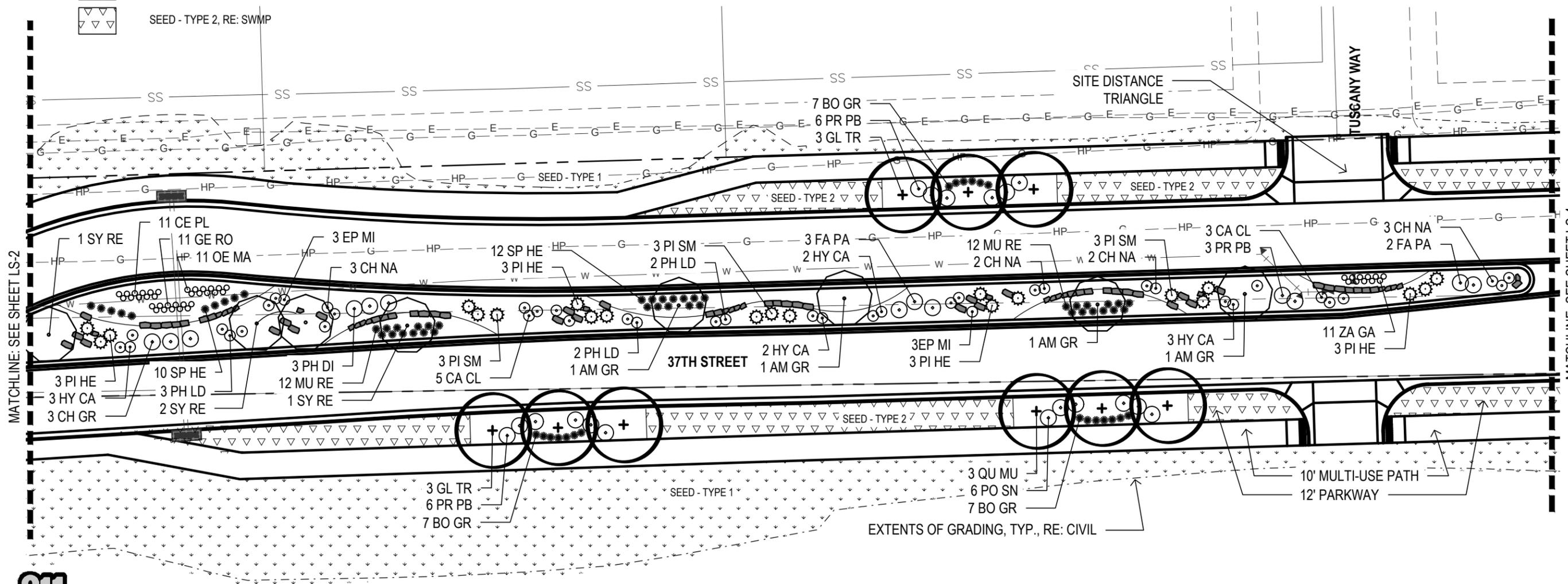
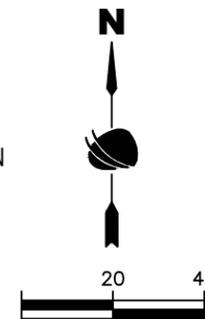
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ADVERTISEMENT SET 12/1/2022

LEGEND

- DECIDUOUS SHADE TREE
- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- EVERGREEN SHRUBS
- ORNAMENTAL GRASS
- PERENNIAL
- SEED - TYPE 1, RE: SWMP
- SEED - TYPE 2, RE: SWMP

NOTES:
 CONTRACTOR RESPONSIBLE FOR
 RESTORING AREAS AFFECTED BY
 GRADING OR CONSTRUCTION BEYOND
 THOSE AREAS INDICATED ON THIS PLAN



MATCHLINE: SEE SHEET LS-2

MATCHLINE: SEE SHEET LS-4



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 File Name:
 Horiz. Scale: As Noted Vert. Scale: As Noted

Sheet Revisions

Date:	Comments	Init.



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 No Revisions:
 Revised:
 Void:

37TH STREET WIDENING PHASE 1
 LANDSCAPE PLAN

Designer: DE
 Detailer: DE
 Sheet Subset: LANDSCAPE
 Structure Numbers
 Subset Sheets: 4 of 22

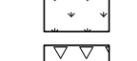
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 AQC M415-021
 Drawing Number LS-3
 Sheet Number 104

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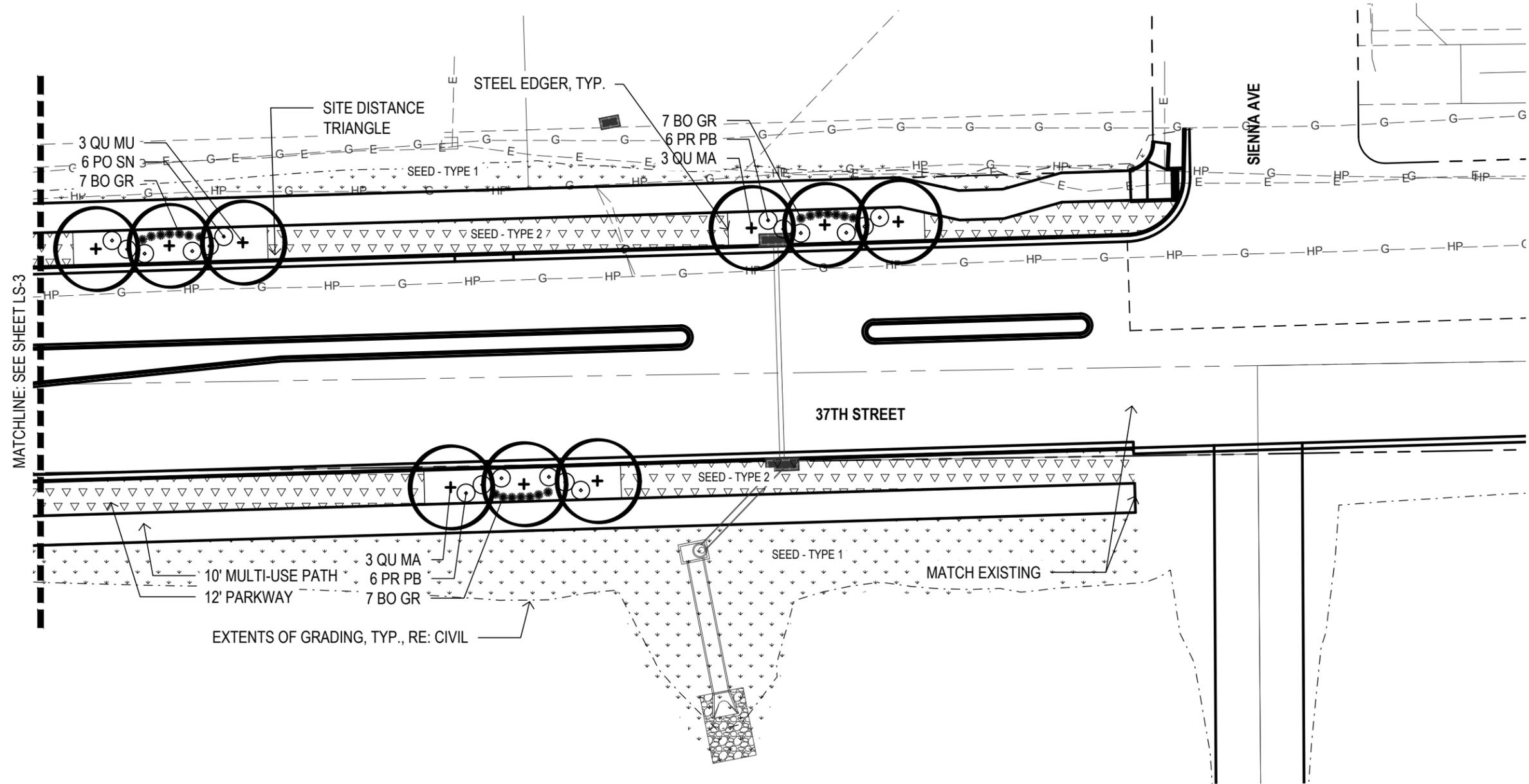
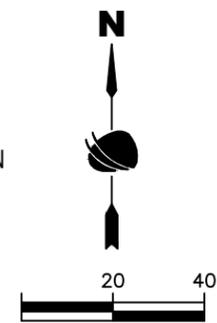


ADVERTISEMENT SET 12/1/2022

LEGEND

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUBS
-  ORNAMENTAL GRASS
-  PERENNIAL
-  SEED - TYPE 1, RE: SWMP
-  SEED - TYPE 2, RE: SWMP

NOTES:
 CONTRACTOR RESPONSIBLE FOR
 RESTORING AREAS AFFECTED BY
 GRADING OR CONSTRUCTION BEYOND
 THOSE AREAS INDICATED ON THIS PLAN



Know what's below.
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Plot Date: 2/15/2022 9:01 AM Plotted By: David Elger
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File Name:
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Sheet Revisions		
Date:	Comments	Init.



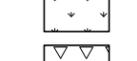
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 LANDSCAPE PLAN		
Designer:	DE	Structure
Detailer:	DE	Numbers
Sheet Subset: LANDSCAPE	Subset Sheets: 5 of 22	

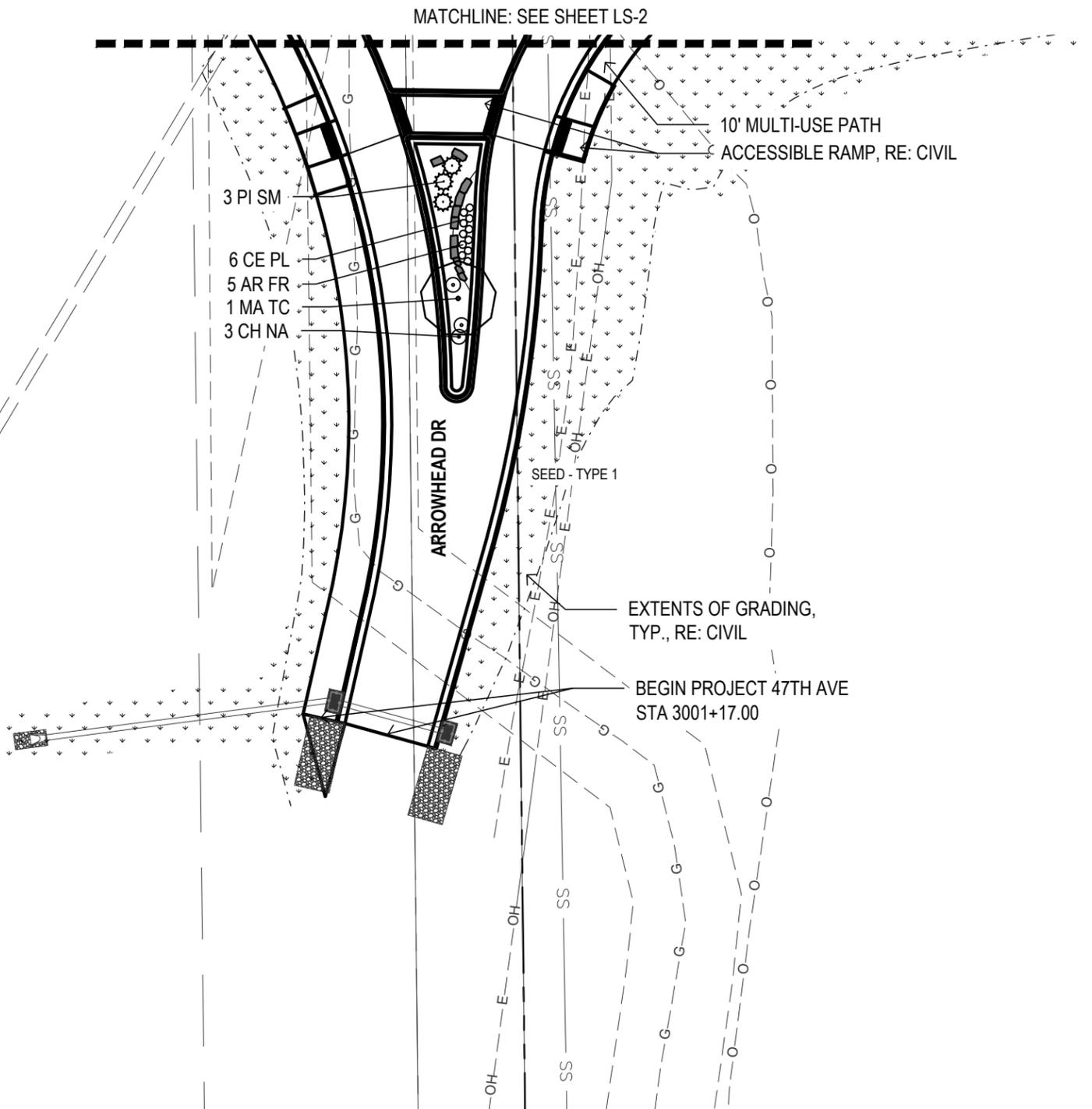
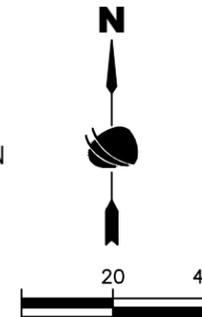
Project No.
AQC M415-021
Drawing Number LS-4
Sheet Number 105

ADVERTISEMENT SET 12/1/2022

LEGEND

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUBS
-  ORNAMENTAL GRASS
-  PERENNIAL
-  SEED - TYPE 1, RE: SWMP
-  SEED - TYPE 2, RE: SWMP

NOTES:
 CONTRACTOR RESPONSIBLE FOR
 RESTORING AREAS AFFECTED BY
 GRADING OR CONSTRUCTION BEYOND
 THOSE AREAS INDICATED ON THIS PLAN



Know what's below.
 Call before you dig.

Print Date: 2/15/2022
 File Name:
 Horiz. Scale: As Noted Vert. Scale: As Noted



Sheet Revisions

Date:	Comments	Init.



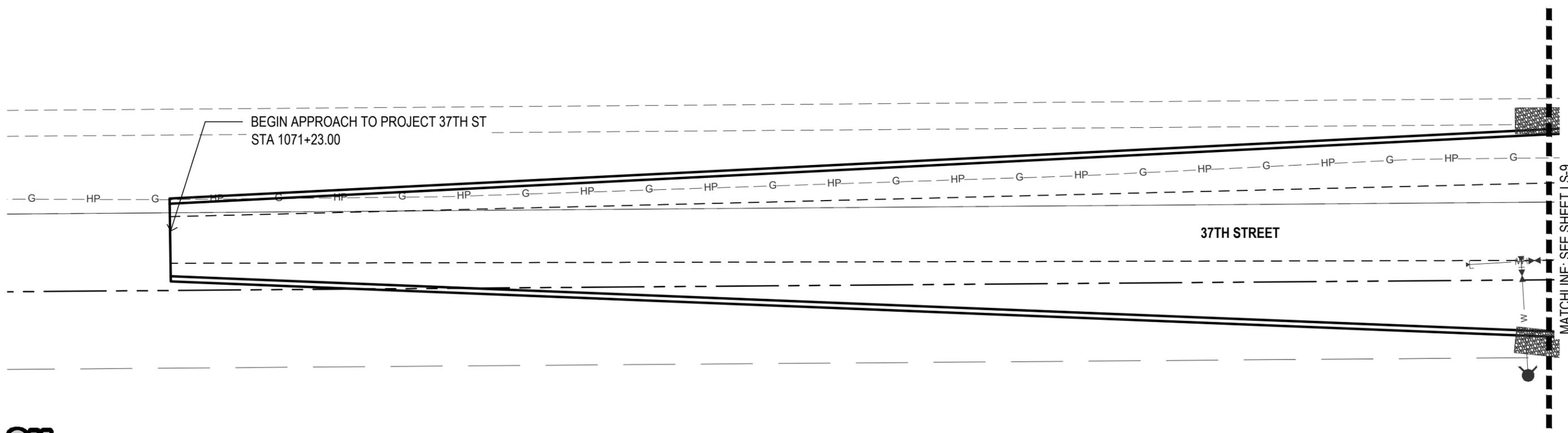
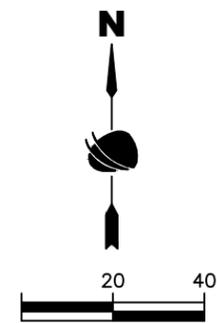
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No Revisions:			
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-5
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 6 of 22
			Sheet Number 106

Plot Date: 2/15/2022 9:02 AM Plotted By: Dave Elger
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ADVERTISEMENT SET 12/1/2022

LEGEND

-  ORGANIC MULCH
-  INORGANIC MULCH
-  AGGREGATE WALKWAYS
-  LANDSCAPE BOULDER A
-  LANDSCAPE BOULDER B
-  LANDSCAPE BOULDER C



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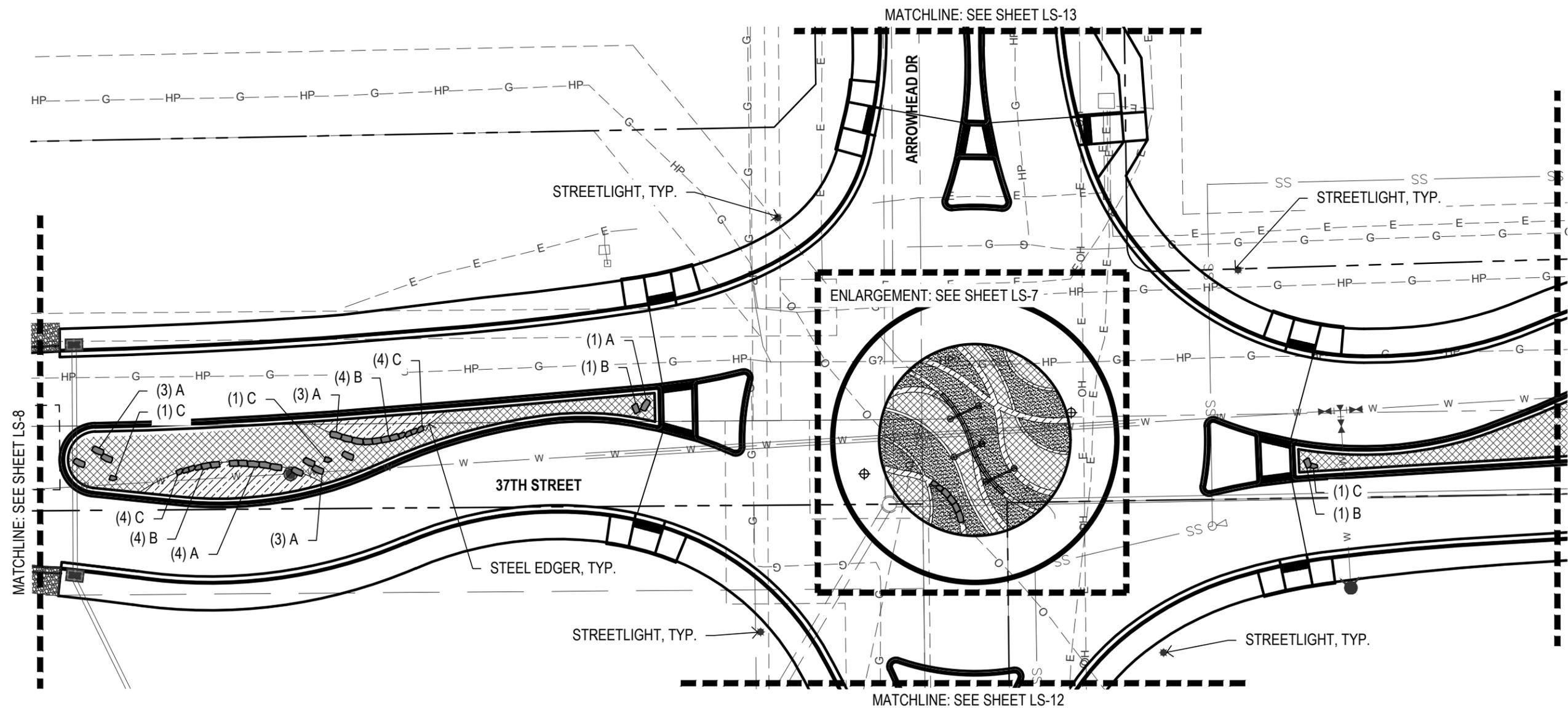
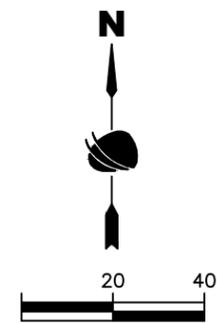
37TH STREET WIDENING PHASE 1 MULCH & BOULDER PLAN		
Designer:	DE	Structure
Detailer:	DE	Numbers
Sheet Subset: LANDSCAPE	Subset Sheets: 9 of 22	

Project No.
AQC M415-021
Drawing Number LS-8
Sheet Number 109

ADVERTISEMENT SET 12/1/2022

LEGEND

-  ORGANIC MULCH
-  INORGANIC MULCH
-  AGGREGATE WALKWAYS
-  LANDSCAPE BOULDER A
-  LANDSCAPE BOULDER B
-  LANDSCAPE BOULDER C



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**37TH STREET WIDENING PHASE 1
 MULCH & BOULDER PLAN**

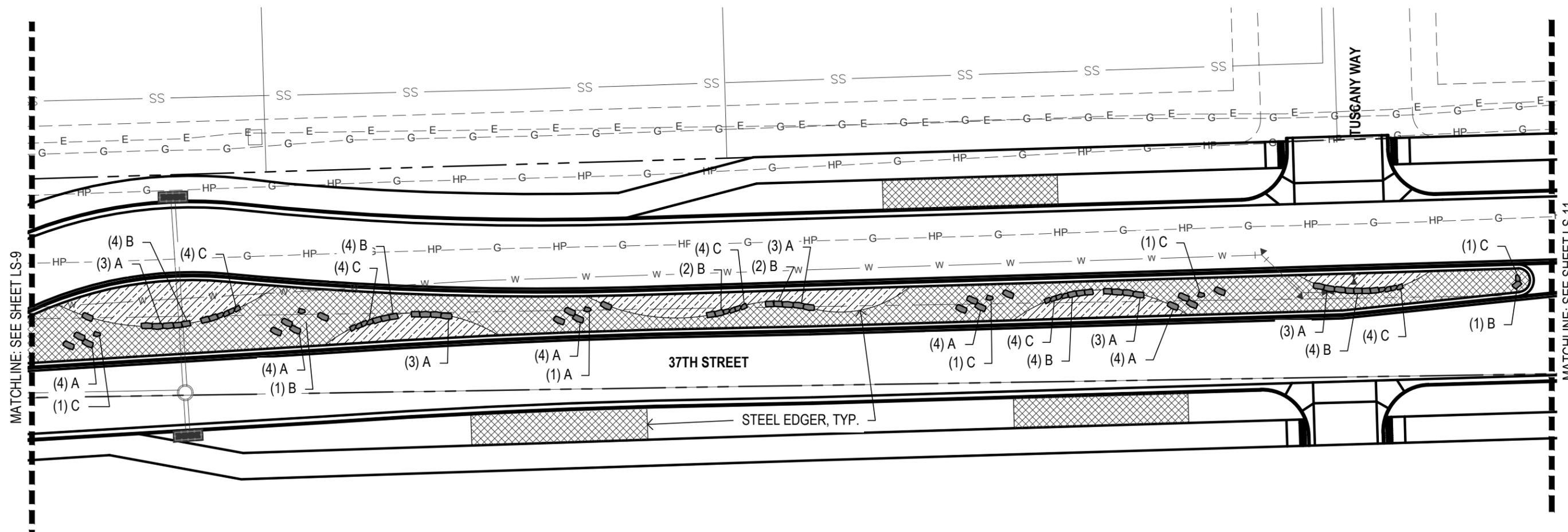
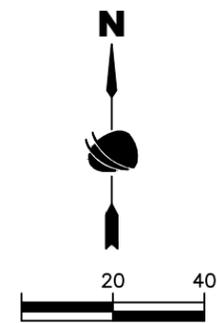
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 Structure Numbers
 Subset Sheets: 10 of 22

Project No.
 AQC M415-021
 Drawing Number LS-9
 Sheet Number 110

ADVERTISEMENT SET 12/1/2022

LEGEND

-  ORGANIC MULCH
-  INORGANIC MULCH
-  AGGREGATE WALKWAYS
-  LANDSCAPE BOULDER A
-  LANDSCAPE BOULDER B
-  LANDSCAPE BOULDER C



MATCHLINE: SEE SHEET LS-9

MATCHLINE: SEE SHEET LS-11



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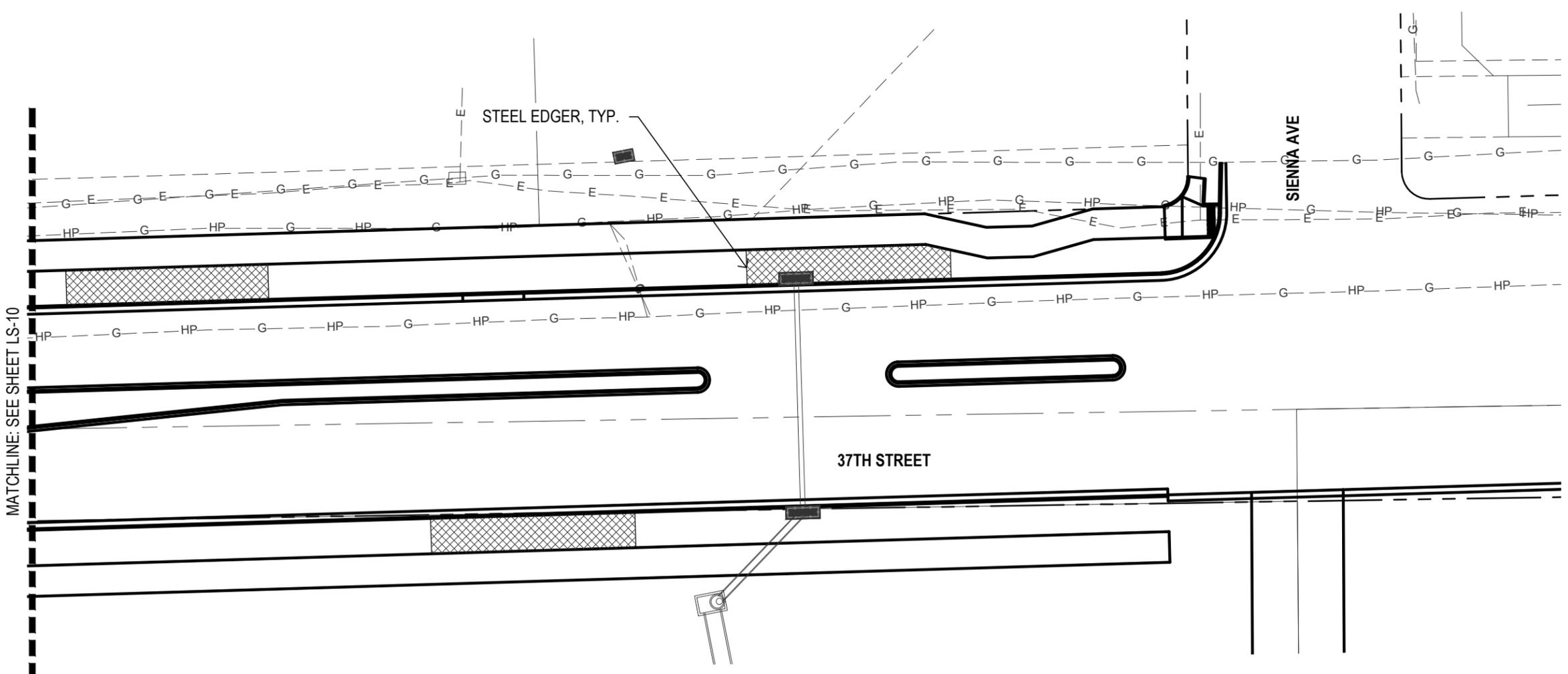
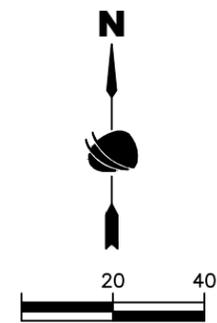
37TH STREET WIDENING PHASE 1 MULCH & BOULDER PLAN		
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Sheet Subset: LANDSCAPE	Subset Sheets: 11 of 22	

Project No.	AQC M415-021
Drawing Number	LS-10
Sheet Number	111

ADVERTISEMENT SET 12/1/2022

LEGEND

-  ORGANIC MULCH
-  INORGANIC MULCH
-  AGGREGATE WALKWAYS
-  LANDSCAPE BOULDER A
-  LANDSCAPE BOULDER B
-  LANDSCAPE BOULDER C



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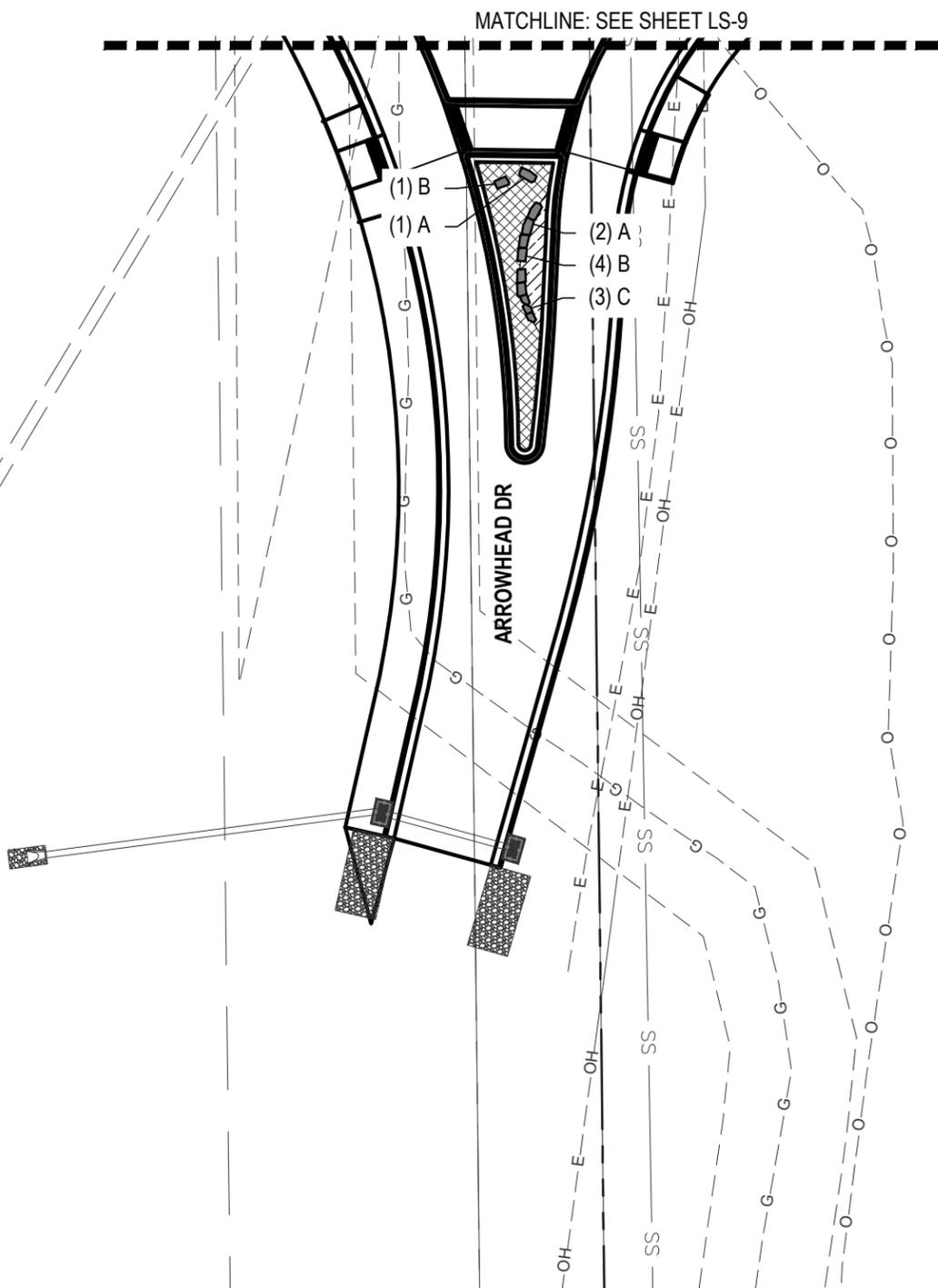
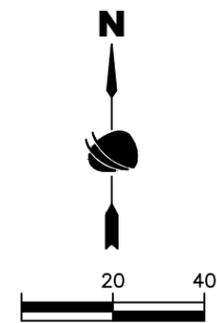
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Sheet Subset: LANDSCAPE	Subset Sheets: 12 of 22	

Project No.
AQC M415-021
Drawing Number LS-11
Sheet Number 112

ADVERTISEMENT SET 12/1/2022

LEGEND

-  ORGANIC MULCH
-  INORGANIC MULCH
-  AGGREGATE WALKWAYS
-  LANDSCAPE BOULDER A
-  LANDSCAPE BOULDER B
-  LANDSCAPE BOULDER C



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Sheet Subset: LANDSCAPE	Subset Sheets: 13 of 22	

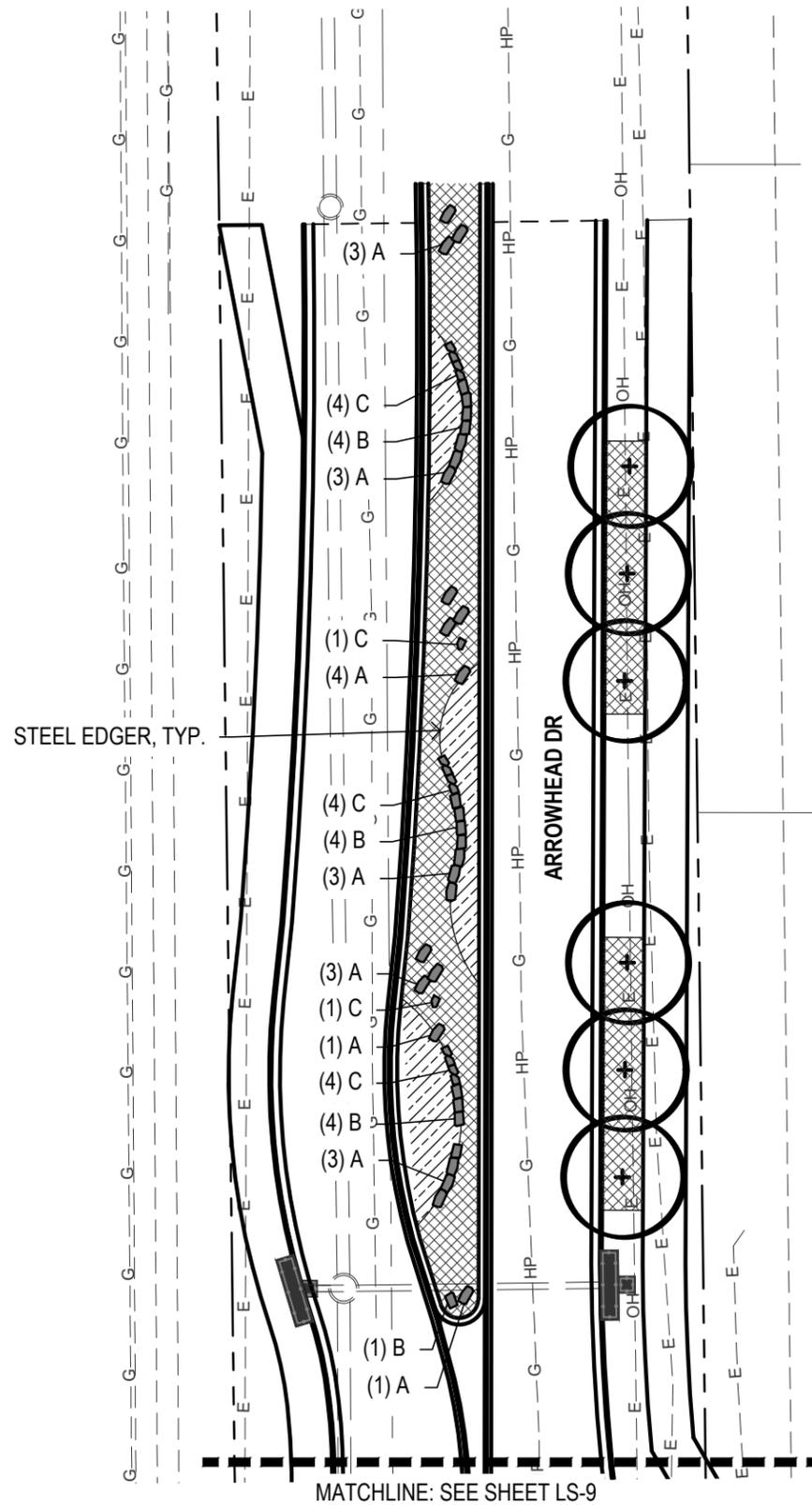
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Drawing Number LS-12
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ADVERTISEMENT SET 12/1/2022

LEGEND

-  ORGANIC MULCH
-  INORGANIC MULCH
-  AGGREGATE WALKWAYS
-  LANDSCAPE BOULDER A
-  LANDSCAPE BOULDER B
-  LANDSCAPE BOULDER C



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Project No. AQC M415-021
Drawing Number LS-13
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ADVERTISEMENT SET 12/1/2022

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	ROOT	QTY	FLOWER COLOR	FLOWER SEASON	SIZE AT MATURITY	SPECIES DIVERSITY
SHADE TREES									
CA SP	Catalpa speciosa	Western Catalpa	2" Cal.	B&B	03	White	Summer	50-60't., 30-40' w.	8%
GL TR	Gleditsia tricanthosae inermis	Thornless Honeylocust	2" Cal.	B&B	06	NA	NA	50-60't., 40-60' w.	16%
QU MU	Quercus muehlenbergia	Chinkapin Oak	2" Cal.	B&B	06	NA	NA	50-60't., 35-45' w.	16%
QU MA	Quercus macrocarpa	Bur Oak	2" Cal.	B&B	09	NA	NA	50-60't., 35-45' w.	23%
ORNAMENTAL TREES									
AM GR	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1.5" Cal.	B&B	04	White	Spring	15-20't., 15-20' w.	11%
MA TC	Malus 'Thunderchild'	Thunderchild Crabapple	1.5" Cal.	B&B	06	Pink	Spring	15-20't., 15-20' w.	16%
SY RE	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	1.5" Cal.	B&B	04	White	Spring	15-20't., 15-20' w.	10%
DECIDUOUS SHRUBS									
CA CL	Caryopteris x clandonensis 'Dark Knight'	Dark Knight Spirea	5 Gal.	Cont.	16	Purple	Summer	2-3' t., 2-3' w.	
CH NA	Chrysothamnus nauseosus nauseosus	Dwarf Baby Blue Rabbitbrush	5 Gal.	Cont.	06	Yellow	Late Summer	1-2' t., 2-4' w.	
CH GR	Chrysothamnus nauseosus graveolens	Tall Green Rabbitbrush	5 Gal.	Cont.	08	Yellow	Late Summer	4-6' t., 4-6' w.	
EP MI	Ephedra minima	Dwarf Joint Fir	5 Gal.	Cont.	18	Red Berries	Summer	2-4" t., 2-3' w.	
HY CA	Hypericum calycinum	Creeping St. John's Wort	5 Gal.	Cont.	16	Yellow	Spring/Simmer	1-2' t., 2-4' w.	
FA PA	Fallugia paradoxa	Apache Plume	5 Gal.	Cont.	22	White/Pink	Summer	3-5' t., 3-5' w.	
PH DI	Physocarpus opulifolius Diabolo	Diabolo Ninebark	5 Gal.	Cont.	06	White	Summer	8' t., 8' w.	
PH LD	Physocarpus opulifolius Little Devil	Little Devil Ninebark	5 Gal.	Cont.	14	White/pink	Summer	4' t., 4' w.	
PO SN	Potentilla fruticosa 'Davurica'	Prairie Snow Potentilla	5 Gal.	Cont.	35	White	Summer	1-2' t., 3-6' w.	
PR PB	Prunus besseyi 'Pawnee Buttes'	Creeping Western Sandcherry	5 Gal.	Cont.	27	White	Spring	1-2' t., 6' w.	
EVERGREEN SHRUBS									
PI SM	Picea pungens 'St. Mary's Broom'	St. Mary's Blue Spruce	5 Gal.	Cont.	24	-	-	18-24" t., 3-4' w.	
PI HE	Pinus nigra 'Helga'	Dwarf Austrian Pine	5 Gal.	Cont.	15	-	-	4-6' t., 4-6' w.	
ORNAMENTAL GRASSES									
BO GR	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Grama Grass	1 Gal.	Cont.	72	Blonde	Summer-Fall	3' t., 2' w.	
MU RE	Muhlenbergia reverchonii 'Ruby Muhly'	Undaunted Ruby Muhly Grass	1 Gal.	Cont.	48	Ruby	Late Summer	15-30" t., 18-24" w.	
SP HE	Sporobolus heterolepis	Prairie Dropseed	1 Gal.	Cont.	50	Golden Orange	Fall	18-24" t. 15-20" w.	
PERENNIALS, GROUNDCOVERS									
AR FR	Artemisia frigida	Fringed Sage	1 Gal.	Cont.	19	Yellow	Late Summer	12" t., 24" w.	
CE PL	Ceratostigma plumbaginoides	Plumbago	4" Pot	Cont.	23	Blue	Mid-Late Summer	12" t., 24" w.	
GE RO	Geranium 'Gerwat' rozanne	Blue Cranesbill	1 Gal.	Cont.	17	Blue/Purple	Spring-Fall	18-20" t., 36" w.	
OE MA	Oenothera macrocarpa	Missouri Evening Primrose	1 Gal.	Cont.	18	Lemon Yellow	Mid-Summer	12" t., 24" w.	
ZA GA	Zauschneria garrettii 'PWWG01S'	Org. Carpet Hummingbird Mint	1 Gal.	Cont.	40	Orange	Summer-Fall	8" t., 18" w.	

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No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-14
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 15 of 22
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ADVERTISEMENT SET 12/1/2022

PLANT NOTES

- REFERENCE THE SWMP DRAWINGS FOR ADDITIONAL INFORMATION ON SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING, AS WELL AS CITY OF EVANS STANDARDS.
- AREAS DISTURBED BY CONSTRUCTION OUTSIDE LIMIT OF WORK LINE SHALL BE REGRADED AND SEEDED WITH TYPE 2 SEED. AREAS CALLED OUT AS TYPE 2 SEED SHALL BE SEEDED WITH TYPE 2 SEED (BELOW).

TYPE 2 SEED SHORT GRASS MIX: (SEED MUST BE APPLIED WITH DRILL SEEDER @ RATE OF 11+ LBS. PLS, PER ACRE. IF BROADCAST, APPROVED BY THE CITY OF EVANS ONLY, APPLY @ A RATE OF 22+ LBS. PLS, PER ACRE.)

- (10%) SAND DROPSEED
- (27%) BLUE GRAMMA
- (26%) LITTLE BLUESTEM
- (27%) SIDEOATS GRAMA
- (10%) SAND LOVEGRASS

- DECIDUOUS TREES SHALL BE SINGLE-STEM TREES WITH STRAIGHT TRUNK, WELL BALANCED CROWN, AND INTACT LEADER, OF HEIGHT AND CALIPER INDICATED IN PLANT LIST, COMPLYING WITH ANSI Z60.1 FOR TYPE OF TREES REQUIRED. TREES SHALL BE BALLED AND BURLAPPED WITH BRANCHING HEIGHT ONE-THIRD TO ONE-HALF OF TREE HEIGHT.
- ORNAMENTAL DECIDUOUS TREES SHALL BE BRANCHED OR PRUNED NATURALLY ACCORDING TO SPECIES AND TYPE, OF CALIPER AND HEIGHT INDICATED IN PLANT LIST, AND BRANCHING ACCORDING TO ANSI Z60.1. STEM FORM SHALL BE SINGLE TRUNK AND ALL TREES SHALL BE BALLED AND BURLAPPED.
- GRADE PLANTING BEDS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISHED GRADES.

6. MEDIAN AREAS

- PLANTING AREAS (SHRUBS, PERENNIALS, ORNAMENTAL GRASSES) SHALL BE AMENDED WITH CITY OF EVANS APPROVED COMPOST AT A RATE OF 4 CUBIC YARDS PER 1,000 S.F. SOIL AMENDMENT SHALL BE INCORPORATED EVENLY INTO THE TOP 6 INCHES OF SOIL.
- MEDIAN AREAS SHALL BE MULCHED WITH 4 INCH DEEP SHREDDED CEDAR MULCH AND ROCK MULCH REFERENCE MULCH AND BOULDER PLANS FOR LOCATIONS.

7. INSPECTIONS

7.A. SITE INSPECTION

- CONTRACTOR WILL INSPECT EXISTING SITE CONDITIONS AND NOTE IRREGULARITIES AFFECTING THE WORK OF THIS SECTION. VERIFY THAT GRADING OPERATIONS HAVE BEEN SATISFACTORILY COMPLETED AND THAT TOPSOIL OF ADEQUATE QUANTITY AND QUALITY HAS BEEN PLACED IN AREAS AS SPECIFIED. VERIFY THAT THE AREAS TO BE REVEGETATED ARE PROTECTED FROM CONCENTRATED RUNOFF AND SEDIMENT FROM ADJACENT AREAS. NOTE PREVIOUS TREATMENTS TO THE AREAS SUCH AS TEMPORARY TYPE 2 SEED OR MULCHING AND DISCUSS WITH THE CITY OF EVANS OR ENGINEER HOW THESE TREATMENTS WILL AFFECT PERMANENT REVEGETATION. REPORT IRREGULARITIES AFFECTING WORK OF THIS SECTION TO THE CITY OF EVANS OR ENGINEER BEFORE INITIATING WORK. WHEN THE CONTRACTOR BEGINS WORK UNDER THIS SECTION, IT IMPLIES ACCEPTANCE OF EXISTING CONDITIONS.
- CONTRACTOR SHALL NOTIFY THE CITY OF EVANS OR ENGINEER PRIOR TO START OF WORK. THE CITY OF EVANS OR ENGINEER WILL BE RESPONSIBLE TO MONITOR THE WORK.

7.B. PRE-PLANTING INSPECTIONS:

- PLANT MATERIAL SHALL BE INSPECTED BY THE CITY OF EVANS OR ENGINEER, BEFORE PLANTING. INSPECTION OF MATERIALS MAY BE SEQUENCED BY MAJOR PLANTING AREAS TO ACCOMMODATE EFFICIENT PLANTING OPERATIONS. PLANTS FOR INSPECTION MUST BE IN A SINGLE LOCATION PREFERABLY ON THE PROJECT SITE. REJECTED MATERIALS MUST BE REMOVED FROM THE SITE, REPLACED AND REINSPECTED BEFORE PLANTING. IF THE SUPPLIER IS A LOCAL NURSERY, TAGGED PLANTS MAY BE INSPECTED AT THE NURSERY. PHOTOGRAPHS OF THE PLANT MATERIALS TO BE OBTAINED FROM NON-LOCAL SOURCES MAY BE SUBMITTED TO THE CITY OF EVANS OR ENGINEER FOR PRELIMINARY INSPECTION. THIS PRELIMINARY INSPECTION IS SUBJECT TO FINAL APPROVAL OF PLANTS AT THE JOB SITE. THE OWNER RESERVES THE RIGHT TO REJECT PLANT MATERIAL AT ANY STAGE OF CONSTRUCTION OR WARRANTY PERIOD.

7.C. TYPE 1 SEED SHALL CONSIST OF THE FOLLOWING:

- 60% BUFFALO GRASS
- 40% BLUE GRAMMA GRASS

- SOIL AMENDMENTS, BACKFILL MIXES AND MULCHES WILL BE INSPECTED AT THE SITE BY THE THE CITY OF EVANS OR ENGINEER BEFORE THEY ARE USED IN PLANTING OPERATIONS. OBTAIN THE CITY OF EVANS OR ENGINEER'S REVIEW OF STAKED LOCATIONS OF TREES BEFORE DIGGING FOR THOSE PLANTS OCCURS. OBTAIN THE CITY OF EVANS OR ENGINEER'S REVIEW OF THE LOCATION OF SHRUBS IN THEIR CONTAINERS AT THE PROPOSED LOCATIONS BEFORE DIGGING COMMENCES. CONTACT THE CITY OF EVANS OR ENGINEER AT LEAST TWO DAYS IN ADVANCE.

10. SUBSTANTIAL COMPLETION INSPECTION:

- AS SOON AS PLANTING IS COMPLETED, A REVIEW AND PRELIMINARY INSPECTION TO DETERMINE THE CONDITION OF THE VEGETATION WILL BE HELD BY THE CITY OF EVANS OR ENGINEER UPON REQUEST BY THE CONTRACTOR.
- THE INSPECTION WILL OCCUR ONLY AFTER THE FOLLOWING CONDITIONS HAVE BEEN MET:
 - LANDSCAPE AREAS WILL BE FREE OF WEEDS AND NEATLY CULTIVATED;
 - PLANT BASINS SHALL BE IN GOOD REPAIR;
 - IRRIGATION SYSTEMS SHALL BE FULLY OPERATIONAL WITH HEADS PROPERLY ADJUSTED;
 - DEBRIS AND LITTER SHALL BE CLEANED UP AND WALKWAYS AND CURBS SHALL BE CLEANED OF SOIL AND DEBRIS LEFT FROM PLANTING OPERATIONS.
- IF, AFTER THE INSPECTION, THE CITY OF EVANS OR ENGINEER IS OF THE OPINION THAT THE WORK HAS BEEN PERFORMED AS PER THE CONTRACT DOCUMENTS, AND THAT THE VEGETATION IS IN SATISFACTORY GROWING CONDITION, HE WILL GIVE THE CONTRACTOR WRITTEN NOTICE OF ACCEPTANCE AND THE WARRANTY PERIOD SHALL BEGIN.
- WORK REQUIRING CORRECTIVE ACTION IN THE JUDGMENT OF THE CITY OF EVANS OR ENGINEER SHALL BE PERFORMED WITHIN THE FIRST TEN (10) DAYS OF THE WARRANTY PERIOD. WORK NOT PERFORMED WITHIN THIS TIME WILL REQUIRE AN EQUIVALENT EXTENSION OF THE WARRANTY PERIOD. CORRECTIVE WORK AND MATERIALS REPLACEMENT SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ON OCCASION COLD WEATHER MAY PRECLUDE THE OPPORTUNITY TO REPLACE DEAD PLANTS, OR THE CONTRACTOR MAY REQUEST REPLACEMENT TO BE DELAYED TO THE FOLLOWING SPRING. THE CITY OF EVANS OR ENGINEER MAY GRANT THIS EXTENSION. IN THE EVENT AN EXTENSION IS GRANTED, THE REPLACEMENT PLANTS SHALL BE INSTALLED NO LATER THAN MAY 15TH, AND THE WARRANTY SHALL BE EXTENDED TO NOVEMBER 15TH OF THE SAME YEAR (ONE GROWING SEASON).
- FINAL APPROVAL AND SUBSTANTIAL COMPLETION NOTICE WILL BE GIVEN WHEN ALL DEFICIENCIES ARE CORRECTED.

15. WARRANTY:

- SPECIAL WARRANTY: INSTALLER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD.
 - FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
 - STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
 - FAULTY OPERATION OF TREE STABILIZATION.
 - DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
 - WARRANTY PERIODS FROM DATE OF SUBSTANTIAL COMPLETION:
 - TREES, SHRUBS, ORNAMENTAL GRASSES, AND PERENNIALS: ONE YEAR.
 - INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:
 - REMOVE DEAD EXTERIOR PLANTS IMMEDIATELY. REPLACE IMMEDIATELY UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.
 - REPLACE EXTERIOR PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.
 - PROVIDE EXTENDED WARRANTY FOR REPLACED PLANT MATERIALS; WARRANTY PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD.

16. MAINTENANCE SERVICE

- INITIAL MAINTENANCE SERVICE FOR EXTERIOR PLANTS: PROVIDE FULL MAINTENANCE BY SKILLED EMPLOYEES OF LANDSCAPE INSTALLER. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL FINAL ACCEPTANCE BY OWNER.

17. TREE AND SHRUB MAINTENANCE:

- MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, ADJUSTING AND REPAIRING STAKES AND GUY SUPPORTS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. RESTORE OR REPLACE DAMAGED TREE WRAPPINGS.

18. LAWN MAINTENANCE:

- MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH AND ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.
- WATERING:
 - PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
 - SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF TYPE 1 SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.
 - WATER LAWN WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.
- MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 1/3 OF GRASS HEIGHT. REMOVE NO MORE THAN 1/3 OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN A 2-3 INCH GRASS HEIGHT.
- LAWN POSTFERTILIZATION:
 - APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY.

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No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure	Drawing Number LS-15
Void:	Detailer: DE	Numbers	Sheet Number 116
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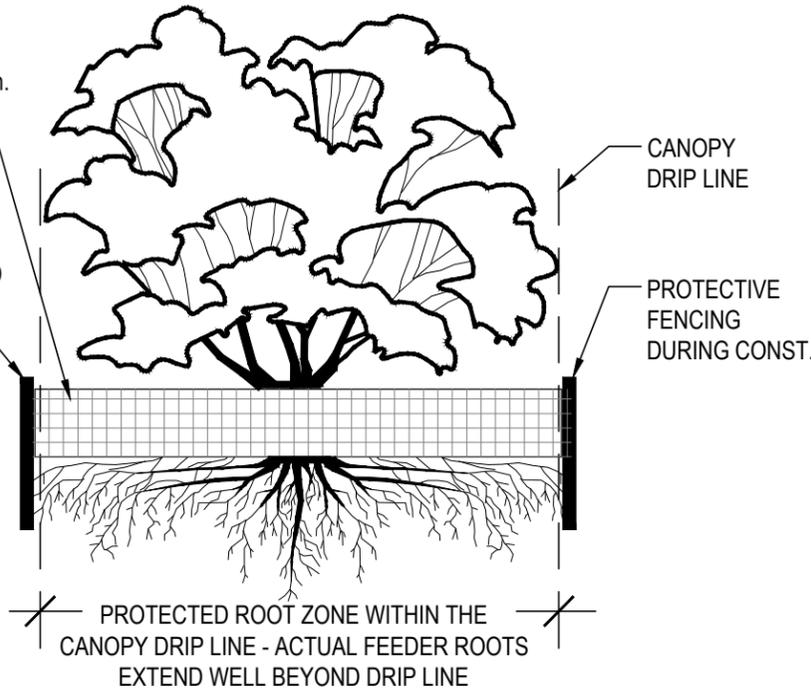
TREE PROTECTION NOTES

- EXISTING TREES WITHIN THE LIMITS OF THE DEVELOPMENT SHALL REMAIN AND BE PROTECTED UNLESS NOTED ON THESE PLANS FOR REMOVAL.
 - WITHIN THE DRIP LINE OF PROTECTED EXISTING TREE, THERE SHALL BE NO CUT OR FILL OVER A FOUR-INCH DEPTH UNLESS A QUALIFIED ARBORIST OR FORESTER HAS EVALUATED AND APPROVED THE DISTURBANCE.
 - TREE PRUNING AND REMOVAL SHALL BE PERFORMED BY A CERTIFIED ARBORIST.
 - PRIOR TO AND DURING CONSTRUCTION, BARRIERS SHALL BE ERECTED AROUND PROTECTED EXISTING TREES WITH SUCH BARRIERS TO BE OF ORANGE FENCING A MINIMUM OF FOUR (4) FEET IN HEIGHT, SECURED WITH METAL T-POSTS, NO CLOSER THAN SIX (6) FEET FROM THE TRUNK OR ONE-HALF (1/2) OF THE DRIP LINE, WHICHEVER IS GREATER. THERE SHALL BE NO STORAGE OR MOVEMENT OF EQUIPMENT, MATERIAL, DEBRIS OR FILL WITHIN THE FENCED TREE PROTECTION ZONE.
 - DURING THE CONSTRUCTION STAGE OF DEVELOPMENT, THE APPLICANT SHALL PREVENT THE CLEANING OF EQUIPMENT OR MATERIAL OR THE STORAGE AND DISPOSAL OF WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MOTOR OIL OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF A TREE WITHIN THE DRIP LINE OF ANY PROTECTED TREE OR GROUP OF TREES.
 - NO DAMAGING ATTACHMENT, WIRES, SIGNS OR PERMITS MAY BE FASTENED TO PROTECTED TREE.
 - LARGE AREAS CONTAINING PROTECTED TREES AND SEPARATED FROM CONSTRUCTION OR LAND CLEARING AREAS, ROAD RIGHTS-OF-WAY AND UTILITY EASEMENTS MAY BE "RIBBONED OFF," RATHER THAN ERECTING PROTECTIVE FENCING AROUND EACH TREE AS REQUIRED ABOVE. THIS MAY BE ACCOMPLISHED BY PLACING METAL T-POST STAKES A MAXIMUM OF FIFTY (50) FEET APART AND TYING RIBBON OR ROPE FROM STAKE-TO-STAKE ALONG THE OUTSIDE PERIMETERS OF SUCH AREAS BEING CLEARED.
 - THE INSTALLATION OF UTILITIES, IRRIGATION LINES OR UNDERGROUND FIXTURE REQUIRING EXCAVATION DEEPER THAN SIX (6) INCHES SHALL BE ACCOMPLISHED BY BORING UNDER THE ROOT SYSTEM OF PROTECTED EXISTING TREES AT A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES. THE AUGER DISTANCE IS ESTABLISHED FROM THE FACE OF THE TREE (OUTER BARK) AND IS SCALED FROM TREE DIAMETER AT BREAST HEIGHT AS DESCRIBED IN THE CHART BELOW:
- | TREE DIAMETER AT BREAST HEIGHT (INCHES) | AUGER DISTANCE FROM FACE OF TREE (FEET) |
|---|---|
| 0-2 | 1 |
| 3-4 | 2 |
| 5-9 | 5 |
| 10-14 | 10 |
| 15-19 | 12 |
| OVER 19 | 15 |
- TREE REMOVAL SHOWN SHALL BE COMPLETED OUTSIDE OF THE SONGBIRD NESTING SEASON (FEB 1 - JULY 31) OR CONDUCT A SURVEY OF TREES ENSURING NO ACTIVE NESTS IN THE AREA.

FENCING MATERIAL SHALL BE BRIGHT CONTRASTING COLOR, DURABLE AND 48" MINIMUM

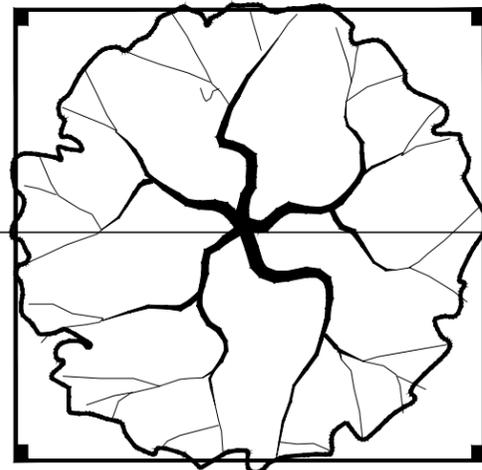
FENCE POSTS SHALL BE COMPARABLE TO METAL T-POSTS OR HEAVIER, AND PLACED AT LEAST 12" IN SOLID GROUND

SECTION



SEE SECTION

PLAN



FENCING MATERIAL SHALL BE PLACED AT THE DRIP LINE OR AT LEAST 10' FROM ANY TREE TRUNK, WHICHEVER IS GREATER AND SHALL ENCLOSE TREE. FENCING SHALL BE MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONST.

TREE PROTECTION NOTES:

- TO PREVENT SOIL COMPACTION WITH IN PROTECTED ROOT ZONES, DESIGNATED ROUTES FOR EQUIPMENT AND FOOT TRAFFIC BY WORK CREWS SHALL BE DETERMINED PRIOR TO COMMENCING ACTIVITIES AND INDICATED IN THESE CONST. DOCUMENTS.
- PLANNED ROUTES SHALL BE MARKED AT THE SITE BEFORE CONST. COMMENCES.
- THE CONTRACTOR SHALL INFORM CONSTRUCTION CREW MEMBERS AND SUBCONTRACTORS OF THE ROUTES AND ENSURE THAT ONLY THESE ROUTES ARE USED.
- TO PREVENT SOIL COMPACTION AND REDUCE TREE ROOT RESPIRATION, NO SOIL STOCKPILES, SUPPLIES, EQUIPMENT OR ANY OTHER MATERIAL SHALL BE PLACED OR STORED WITHIN A TREE DRIP ZONE OR WITHIN 10' OF THE TREE TRUNK, WHICHEVER DISTANCE IS GREATER. HEAVY OBJECTS SUCH AS WOOD PALLETS OR METAL RAILINGS SHALL NOT LEAN AGAINST OR COME IN CONTACT WITH THE TREE.
- WHEN FOOT TRAFFIC OR EQUIPMENT USE IS UNAVOIDABLE WITHIN THE DRIP LINE, THIS AREA SHALL BE MULCHED WITH WOOD CHIPS TO A PRE-DETERMINED DEPTH BEFORE CONSTRUCTION ACTIVITY BEGINS. MULCH DEPTH AND POSSIBLE PLANKING SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND REMOVED WHEN CONSTRUCTION ACTIVITIES ARE COMPLETED. SITUATIONS SUCH AS THIS NEED TO BE DISCUSSED AND APPROVED BY FORESTRY SERVICES.
- FENCING MATERIAL SHALL ENCIRCLE ANY TREE WHOSE DRIP LINE EDGE IS WITHIN 20' OF ANY CONSTRUCTION ACTIVITY.



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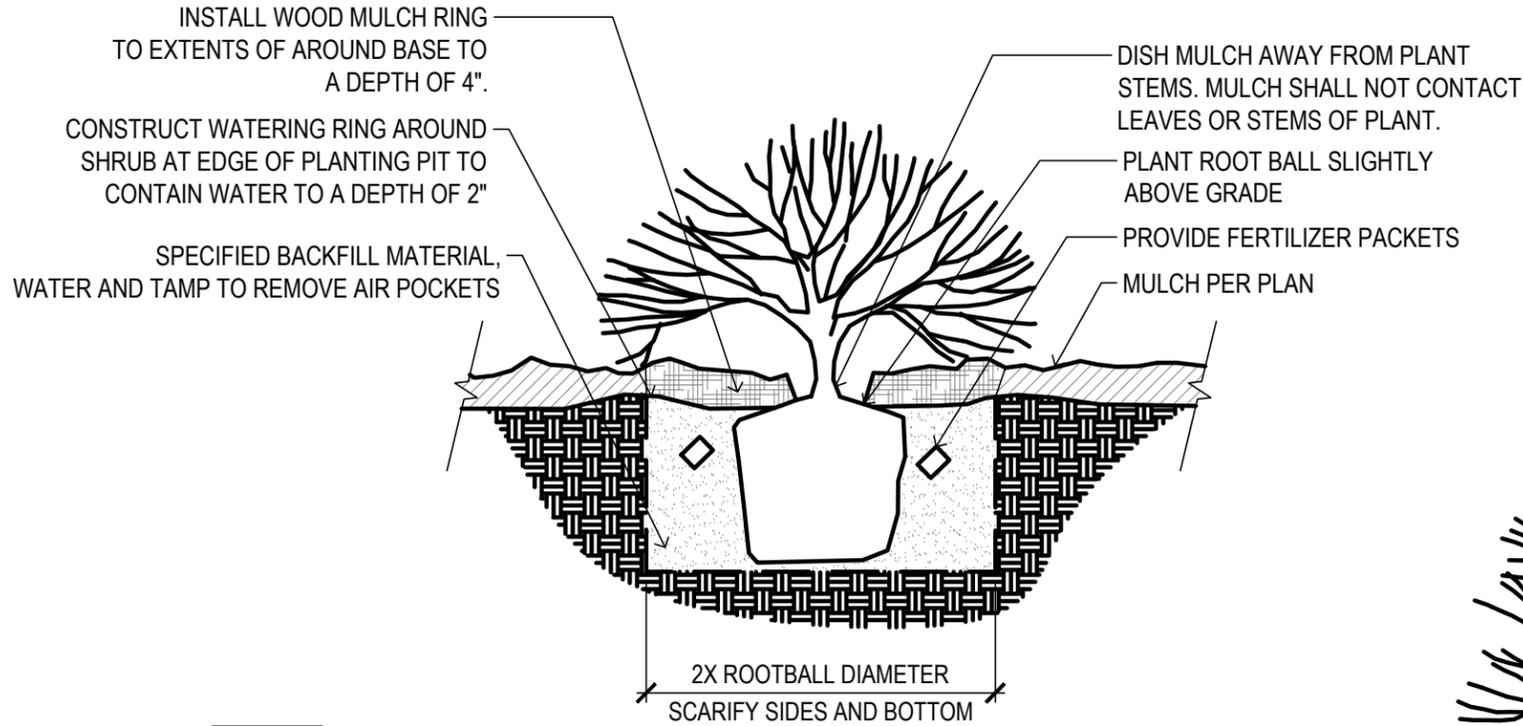


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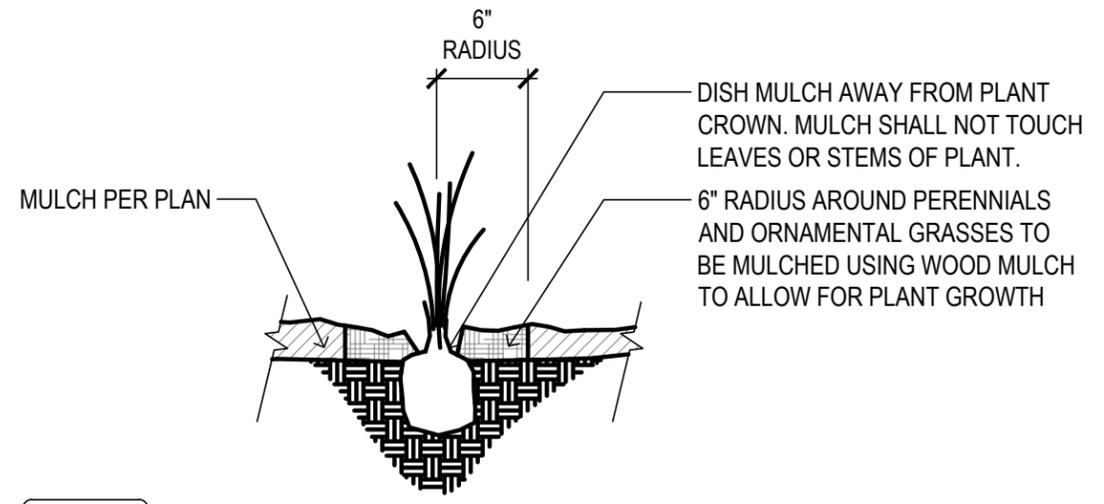
37TH STREET WIDENING PHASE 1
LANDSCAPE DETAILS

Designer: DE
Detailer: DE
Structure Numbers
Sheet Subset: LANDSCAPE Subset Sheets: 17 of 22

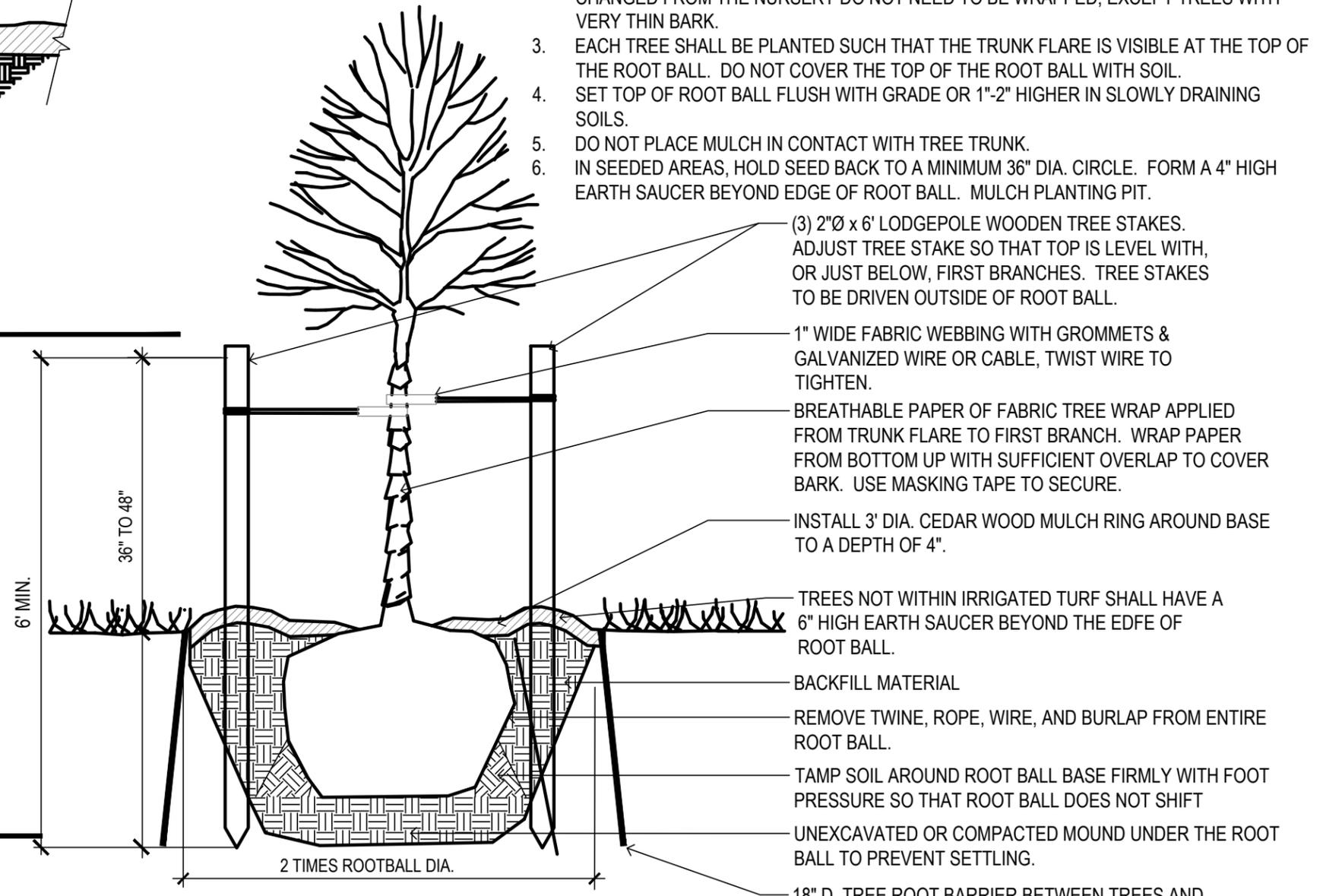
Project No.
AQC M415-021
Drawing Number LS-16
Sheet Number 117



3 SHRUB PLANTING
SCALE: NTS



2 PERENNIAL AND GRASSES PLANTING
SCALE: NTS



1 DECIDUOUS TREE PLANTING
SCALE: NTS

- GENERAL TREE PLANTING NOTES
1. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
 2. MARK NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE. TREES WHOSE NORTH ORIENTATION IS NOT CHANGED FROM THE NURSERY DO NOT NEED TO BE WRAPPED, EXCEPT TREES WITH VERY THIN BARK.
 3. EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
 4. SET TOP OF ROOT BALL FLUSH WITH GRADE OR 1"-2" HIGHER IN SLOWLY DRAINING SOILS.
 5. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.
 6. IN SEEDBED AREAS, HOLD SEED BACK TO A MINIMUM 36" DIA. CIRCLE. FORM A 4" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL. MULCH PLANTING PIT.

Plot Date: 2/15/2022 8:24 AM Plotted By: Dave Elger
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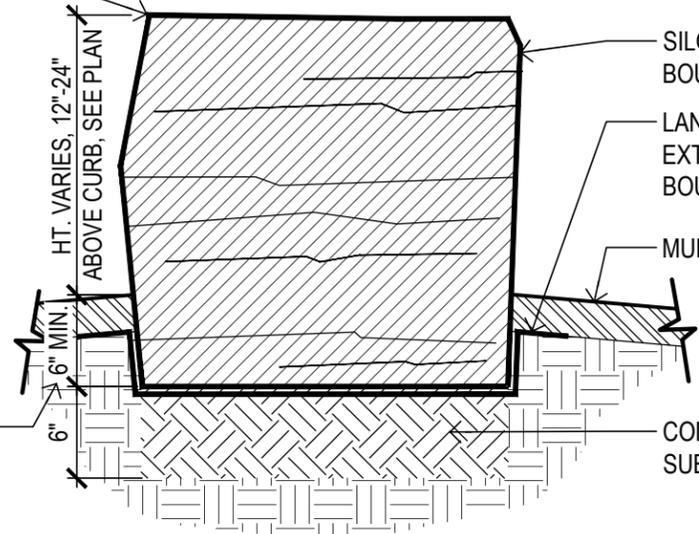
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37TH STREET WIDENING PHASE 1 LANDSCAPE DETAILS			
Designer:	DE	Structure	
Detailer:	DE	Numbers	
Sheet Subset:	LANDSCAPE	Subset Sheets:	18 of 22

Project No.	AQC M415-021
Drawing Number	LS-17
Sheet Number	118

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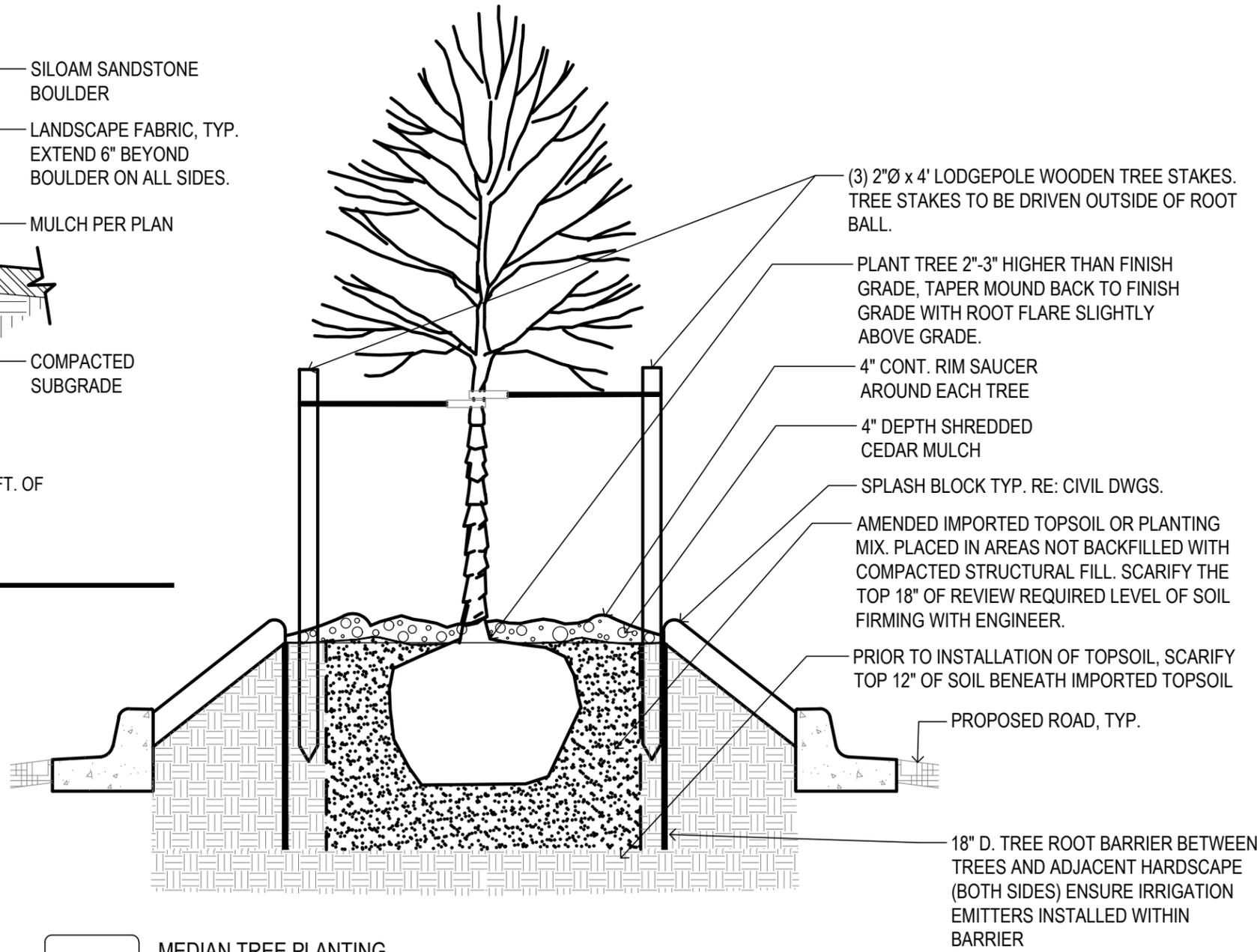
TOP SURFACE OF BOULDERS WITHIN SIGHT TRIANGLES SHALL BE 35" MAX ABOVE STREET LEVEL



BURY BOTTOM OF BOULDER 6" MIN. BELOW ADJACENT FINISHED GRADE IF BOULDER IS LOCATED WITHIN DRIP LINE OF EXISTING TREE, BURY BOULDER 3" BELOW ADJACENT FINISHED GRADE, TYP.

*NOTE: BOULDERS SHALL NOT BE PLACED WITHIN 2 FT. OF SPLASH BLOCK. SEE PLAN FOR HEIGHT AND SIZING.

2 LANDSCAPE BOULDER
SCALE: NTS



1 MEDIAN TREE PLANTING
SCALE: NTS



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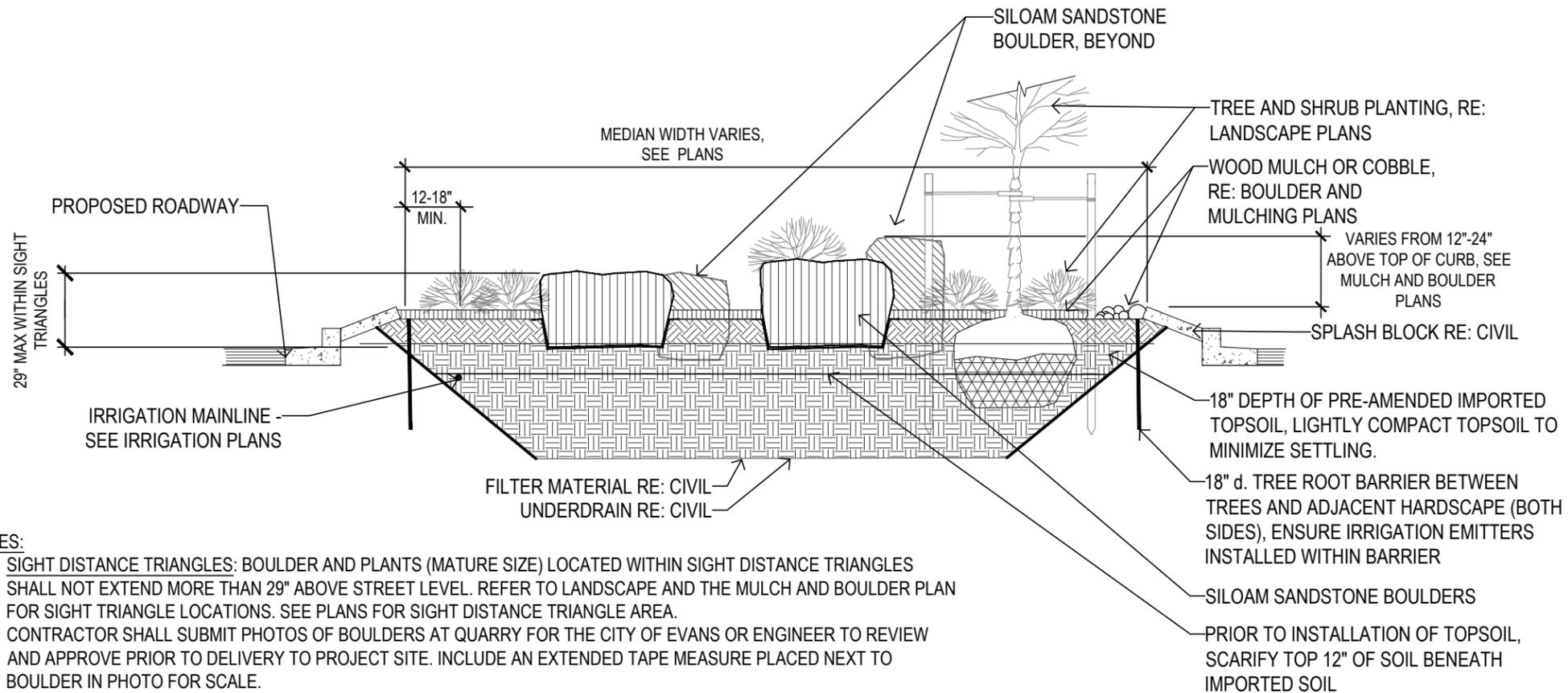
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No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-18
Void:	Detailer: DE		Sheet Number 119
Sheet Subset: LANDSCAPE		Subset Sheets: 19 of 22	

Plot Date: 2/15/2022 9:04 AM Plotted By: Dave Elger
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NOTES:

1. SIGHT DISTANCE TRIANGLES: BOULDER AND PLANTS (MATURE SIZE) LOCATED WITHIN SIGHT DISTANCE TRIANGLES SHALL NOT EXTEND MORE THAN 29" ABOVE STREET LEVEL. REFER TO LANDSCAPE AND THE MULCH AND BOULDER PLAN FOR SIGHT TRIANGLE LOCATIONS. SEE PLANS FOR SIGHT DISTANCE TRIANGLE AREA.
2. CONTRACTOR SHALL SUBMIT PHOTOS OF BOULDERS AT QUARRY FOR THE CITY OF EVANS OR ENGINEER TO REVIEW AND APPROVE PRIOR TO DELIVERY TO PROJECT SITE. INCLUDE AN EXTENDED TAPE MEASURE PLACED NEXT TO BOULDER IN PHOTO FOR SCALE.
3. THE CITY OF EVANS OR ENGINEER SHALL REVIEW AND APPROVE BOULDER LOCATIONS PRIOR TO PLACEMENT. LOCATIONS SHOULD BE STAKED FOR REVIEW.
4. VERTICAL JOINTS BETWEEN BOULDERS SHALL NOT EXCEED 1". STONE CHINKING IS NOT ACCEPTABLE.
5. DAMAGED/SCARRED BOULDERS MAY BE REJECTED BY THE CITY OF EVANS OR ENGINEER.
6. COMPACT SOIL BENEATH BOULDERS TO REDUCE SETTLING.
7. PLACE BOULDERS WITH FLATTEST SIDE UP AND MOST ATTRACTIVE FACE (AS DETERMINED BY OWNER'S REPRESENTATIVE) FACING ROADWAY. TOP SURFACE OF BOULDER SHALL BE FLAT AND SLIGHTLY SLOPED FOR DRAINAGE.

1 MEDIAN CROSS SECTION
SCALE: NTS



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No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure DE	Drawing Number LS-19
Void:	Detailer: DE	Numbers	Sheet Number 120
Sheet Subset: LANDSCAPE		Subset Sheets: 20 of 22	

Plot Date: 2/15/2022 9:04 AM Plotted By: Dave Elger
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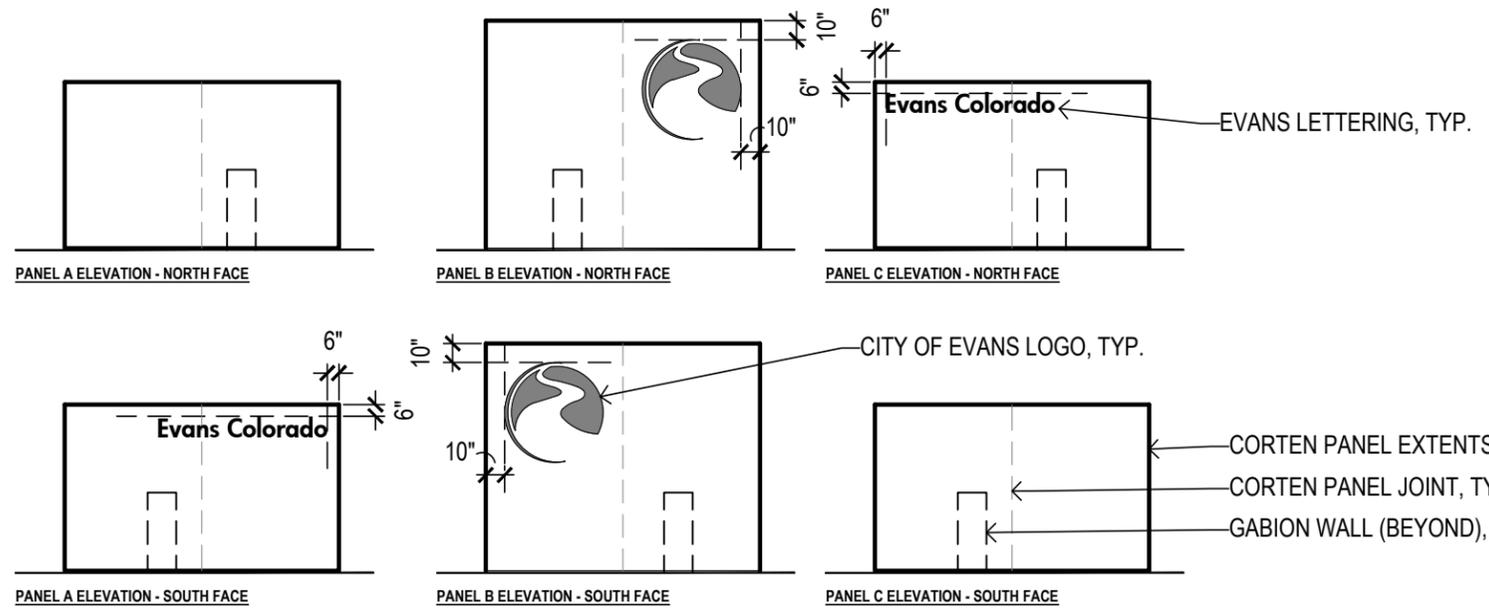
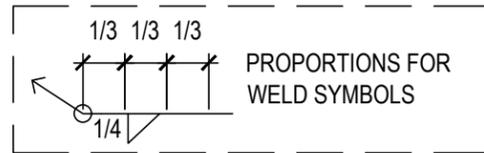
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SIGN PANEL NOTES

1. SIGN FABRICATOR SHALL PROVIDE SHOP DRAWINGS THAT INCLUDE DETAILED DIMENSIONS AND MATERIALS FOR REVIEW BY OWNER'S REPRESENTATIVE
2. POSTS AND PANELS SHALL BE INSTALLED PLUMB
3. FIELD STAKE LOCATIONS OF SIGN PANELS AND GABION WALLS PRIOR TO INSTALLATION FOR REVIEW BY OWNERS REPRESENTATIVE
4. METAL EDGES AND JOINTS SHALL BE GROUND DOWN FOR SAFETY

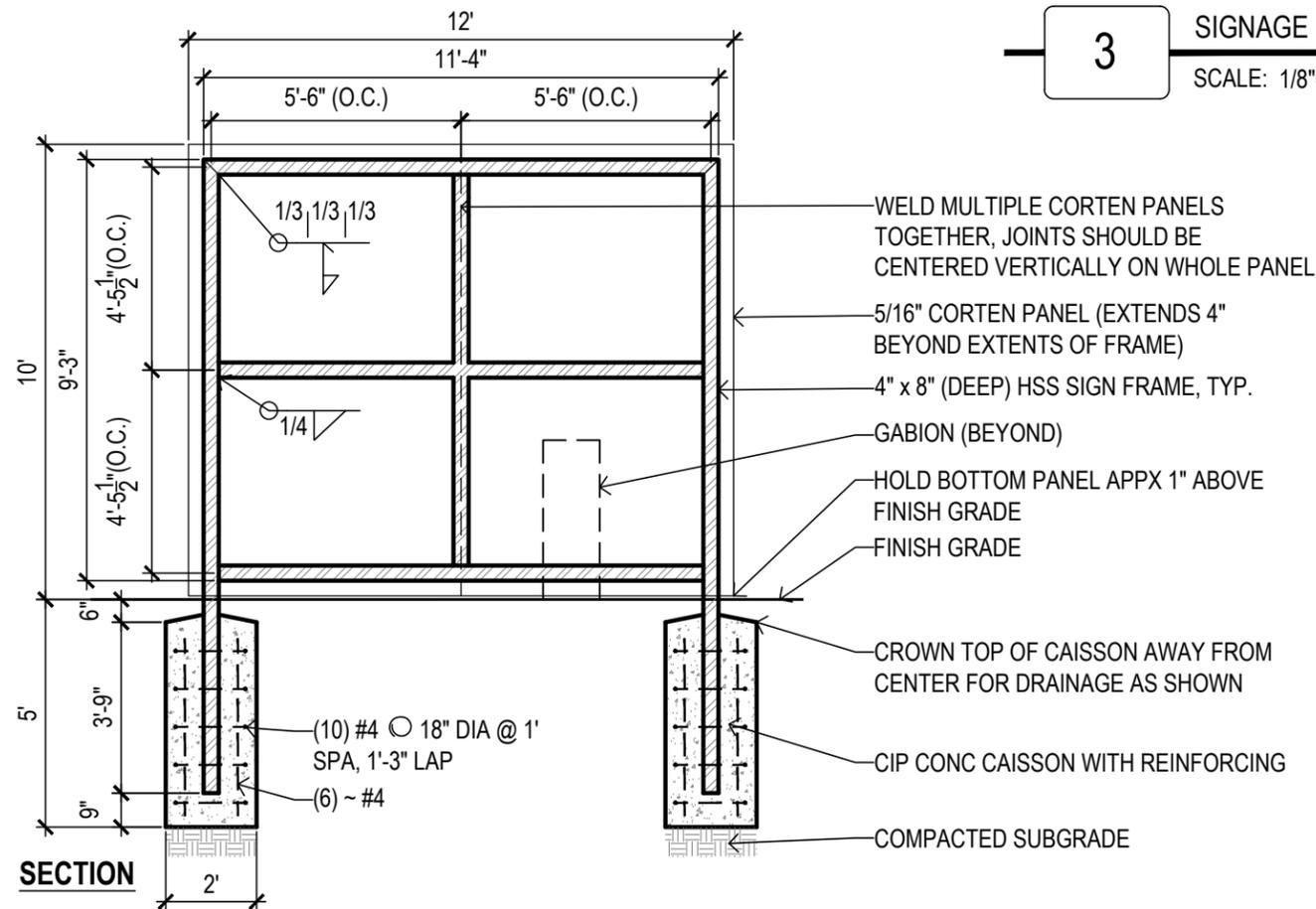
SIGNAGE NOTES

1. 'CITY OF EVANS LOGO' SHALL BE 1/4" thk. CNC CUT STEEL; POWDER COAT WHITE. ARTWORK SHALL BE PROVIDED UPON REQUEST; PIN MOUNT TO SIGN PANEL IN THREE (3) LOCATIONS EACH PIECE OFFSET 1"
2. 'EVANS LETTERING' SHALL BE 1/4" thk. CNC CUT STEEL, POWDER COAT WHITE. 10" ht., FONT: FUTURA HV; PIN MOUNT TO SIGN PANEL OFFSET 1"
3. POWDER COAT FINISHES SHALL HAVE LOW REFLECTIVITY



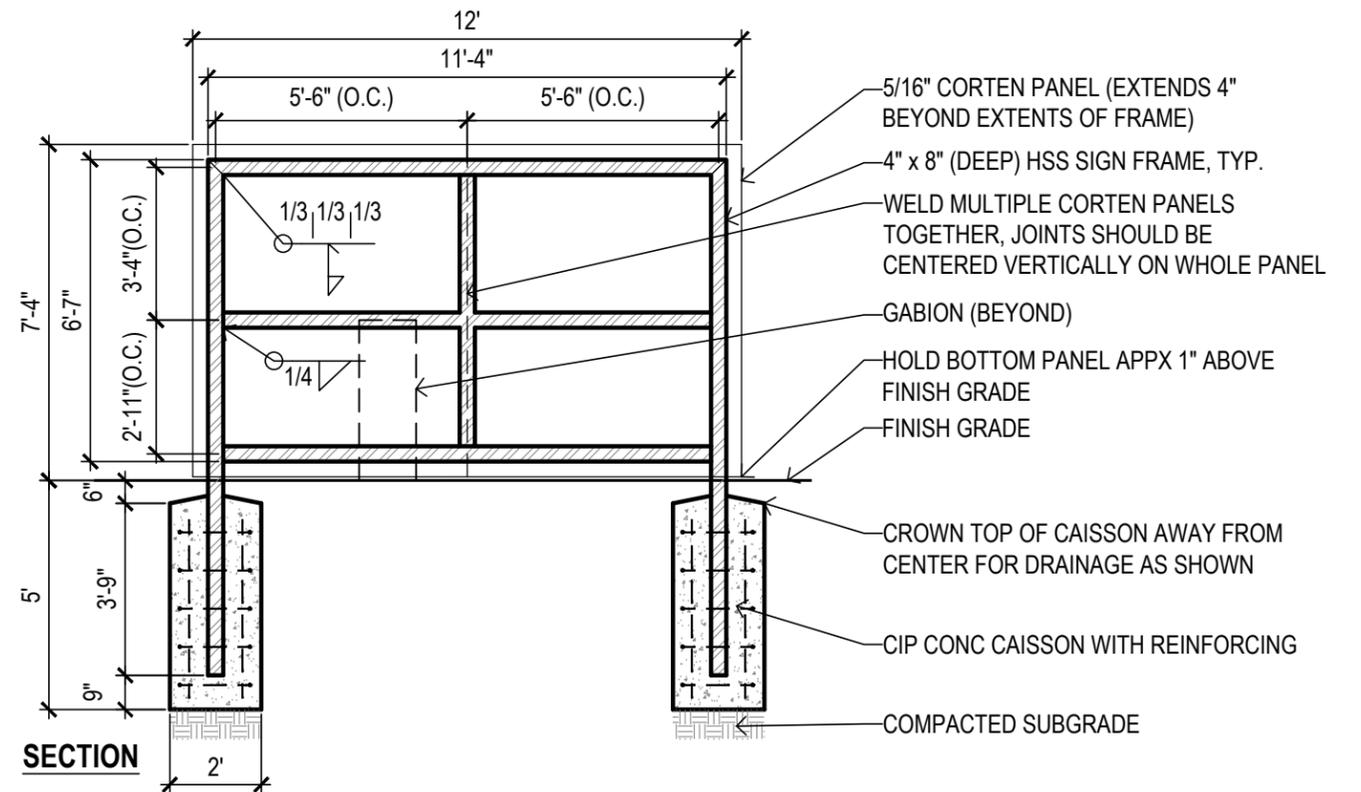
3 SIGNAGE (ALL PANELS)

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



1 SIGN PANEL B (MIDDLE)

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



2 SIGN PANEL A & C (NORTH & SOUTH)

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



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No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-21
Void:	Detailer: DE		Sheet Number 122
Sheet Subset: LANDSCAPE		Subset Sheets: 22 of 22	

Plot Date: 2/15/2022 9:04 AM Plotted By: Doug Elger
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GENERAL DESCRIPTION

A FULLY AUTOMATED SPRINKLER AND DRIP IRRIGATION SYSTEM WILL IRRIGATE IRRIGATED SEED AREAS, PLANTING BEDS, AND TREES. POP-UP SPRAY SPRINKLERS WILL IRRIGATE SEED THAT REQUIRES IRRIGATION. INLINE DRIP TUBING WILL IRRIGATE TREES (REFER TO IRRIGATION PLANS AND DETAILS). POINT SOURCE DRIP IRRIGATES PLANTING BEDS.

MUNICIPAL (POTABLE) WATER WILL BE USED FOR IRRIGATION AND THE SYSTEM IS DESIGNED TO BE CHANGED TO NON-POTABLE WATER IN THE FUTURE. THE POINT-OF-CONNECTION (P.O.C.) UTILIZES AN EXISTING IRRIGATION MAINLINE. MAINLINE PIPE IS STUBBED OUT FOR POTENTIAL FUTURE USE.

SINCE THERE IS POTENTIAL OF USING NON-POTABLE WATER IN THE FUTURE, THE FOLLOWING ITEMS ARE REQUIRED:

- IRRIGATION PIPING (SLEEVES, MAINLINE, LATERAL) IS PURPLE
- IRRIGATION EQUIPMENT DESIGNED FOR NON-POTABLE USE (I.E. DIRTY WATER VALVES)
- SPRINKLERS TO HAVE PURPLE TOPS
- VALVE BOXES TO HAVE PURPLE LIDS

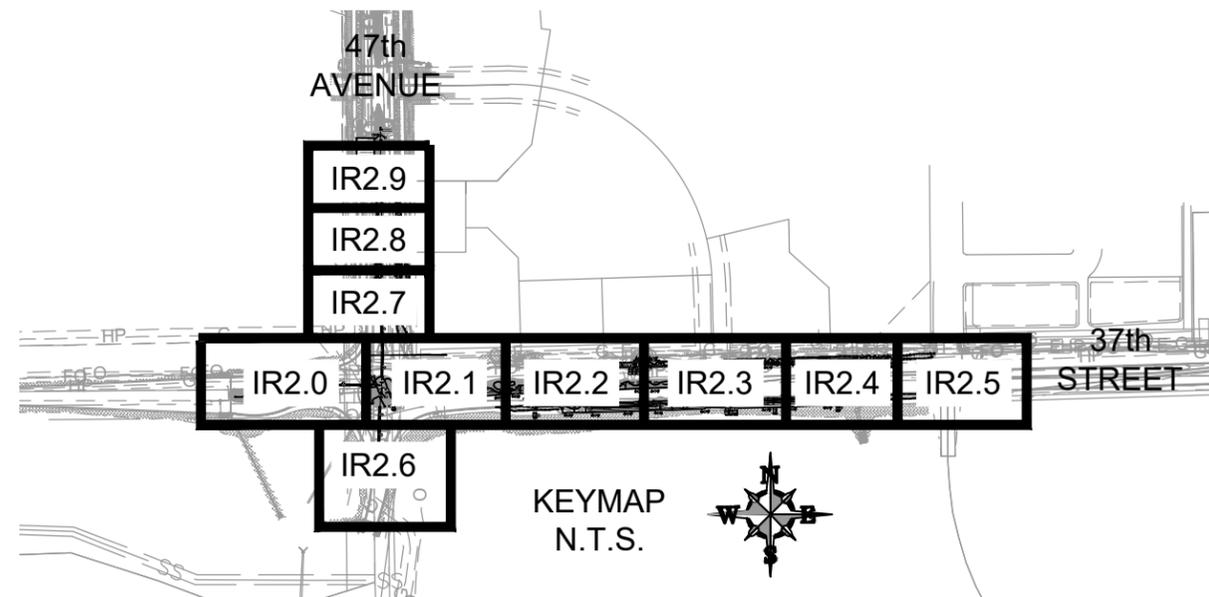
AN EXISTING TWO WIRE IRRIGATION CONTROLLER WILL BE UTILIZED. THE EXISTING TWO WIRE CABLE WILL BE CONNECTED TO AND NEW TWO WIRE CABLE EXTENDED TO NEW ZONES AND STUBBED OUT FOR POTENTIAL FUTURE USE.

SOIL MOISTURE SENSORS ARE REQUIRED TO FACILITATE WATER CONSERVATION. REFER TO IRRIGATION PLANS FOR ADDITIONAL INFORMATION.

ISOLATION GATE VALVES PERMIT THE ISOLATION OF SECTIONS OF THE SYSTEM FOR REPAIRS OR MAINTENANCE. QUICK COUPLING VALVES HAVE BEEN PROVIDED THROUGHOUT THE SITE FOR INCIDENTAL WATERING.

GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A MINIMUM STATIC PRESSURE AND MINIMUM DISCHARGE AS INDICATED ON THE PLANS FOR THE POINT-OF-CONNECTION. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES WITH THE ASSUMPTIONS.
2. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
4. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES. INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - B. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF CROSS TYPE FITTINGS IS NOT PERMITTED.
5. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - A. TWO OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVE.
 - B. TWO OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL SPRAY SPRINKLERS.
 - C. TWO QUICK COUPLING KEYS, EACH WITH ATTACHED SWIVEL HOSE EL FOR OPERATION OF THE QUICK COUPLING VALVES.
6. SELECT NOZZLES FOR SPRAY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS.
7. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE TO BE INSTALLED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE REQUIRES HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR.
8. WITH REGARD TO PIPE SIZING, THE FOLLOWING SHOULD BE NOTED: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
9. INSTALL VAN NOZZLES WHERE SPRAY ANGLES ARE LESS OR GREATER THAN WHAT A FIXED SPRAY NOZZLE CAN IRRIGATE WITHOUT EXCESSIVE OVERSPRAY.
10. CONTRACTOR TO INSTALL SPRINKLERS PERPENDICULAR TO GRADE AND FINE GRADING TECHNIQUES EMPLOYED TO REDUCE SEDIMENT, HEAD DAMAGE, AND RUNOFF TO HARD SURFACES.
11. CONTRACTOR MUST USE CYCLE/SOAK PROGRAMMING TECHNIQUES TO MINIMIZE RUN OFF.



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No Revisions:	IRRIGATION COVER SHEET		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR-001
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 123
		Subset Sheets: 1 of 20	

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FLAG NOTES

- ① EXCAVATE AND EXPOSE EXISTING 2-INCH PVC IRRIGATION MAINLINE IN APPROXIMATE LOCATION SHOWN. CUT EXISTING MAINLINE AND INSTALL SOLVENT WELD SCH. 40 PVC COUPLING. INSTALL NEW MAINLINE FROM COUPLING. COORDINATE CONNECTION AND MAINLINE INSTALLATION WITH OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ② EXCAVATE AND EXPOSE EXISTING TWO WIRE CABLE IN APPROXIMATE LOCATION SHOWN. CUT TWO WIRE CABLE AND SPLICE NEW TWO WIRE CABLE WITH 3M DBR/Y-6 WIRE SPLICE KIT. INSTALL NEW TWO WIRE CABLE WITH NEW MAINLINE PIPE. COORDINATE TWO WIRE CONNECTION AND INSTALLATION WITH OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ③ INSTALL IRRIGATION DECODER GROUNDING EQUIPMENT THAT MEETS CONTROLLER MANUFACTURER'S GUIDELINES AT LOCATION ADJACENT TO INDICATED REMOTE CONTROL VALVE ASSEMBLY. COORDINATE EXACT LOCATION OF GROUNDING EQUIPMENT WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR GROUNDING THE ENTIRE TWO WIRE PATH PER MANUFACTURER'S GUIDELINES.
- ④ INSTALL BASELINE SOIL MOISTURE SENSOR (BL-5315B) FOR INDICATED REMOTE CONTROL VALVE. UTILIZE SENSOR FOR PROGRAMMING OF NEARBY SIMILAR ZONES. COORDINATE PROGRAMMING WITH OWNER'S REPRESENTATIVE. COORDINATE EXACT LOCATION OF SENSOR WITH OWNER'S REPRESENTATIVE.
- ⑤ INSTALL ONE (1) 4-INCH SLEEVE FOR IRRIGATION MAINLINE AND ONE (1) 2-INCH SLEEVE FOR TWO WIRE CABLE. COORDINATE SLEEVING INSTALLATION WITH OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ⑥ STUB OUT MAINLINE PIPE AND TWO WIRE CABLE FOR POTENTIAL FUTURE PARK USE. CAP MAINLINE WITH SOLVENT WELD SCH. 40 PVC CAP. PLACE 10-INCH ROUND VALVE BOX OVER CAPPED END. COIL 30-INCH LENGTH OF TWO WIRE CABLE WITHIN THE 10-INCH ROUND VALVE BOX. COORDINATE STUB OUT INSTALLATION WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ⑦ REPAIR EXISTING SOFTSCAPE TO MEET OR EXCEED PRE-CONSTRUCTION CONDITIONS. COORDINATE REPAIRS WITH THE OWNER'S REPRESENTATIVE.
- ⑧ IRRIGATION PIPE AND VALVES MAY BE SHOWN OUTSIDE PLANTING AREA IN LANDSCAPED AREA.
- ⑨ INSTALL MAINLINE AND SLEEVING UNDER SITE WALL FOUNDATION. PROVIDE 1-FOOT VERTICAL CLEARANCE BETWEEN BOTTOM OF FOUNDATION TO TOP OF SLEEVE.
- ⑩ INSTALL DRIP LATERAL PIPE WITHIN SLEEVE UNDER SITE WALL FOUNDATION. PROVIDE 1-FOOT VERTICAL CLEARANCE BETWEEN BOTTOM OF FOUNDATION TO TOP OF SLEEVE.

LEGEND

- SLEEVING
*TYPE: CLASS 200 PVC, COLOR PURPLE
- MAINLINE PIPE
*TYPE: CLASS 200 PVC, SIZE PER PLAN, COLOR PURPLE
- LATERAL PIPE TO SPRINKLERS AND INLINE DRIP RINGS
*TYPE: CLASS 200 PVC, COLOR PURPLE
*1-INCH UNLESS OTHERWISE NOTED
- DRIP LATERAL PIPE TO EMITTERS
*TYPE: RAIN BIRD XT-700 OR EQUAL
*3/4-INCH SIZE UNLESS OTHERWISE NOTED
*EMITTER TYPE: RAIN BIRD XERI-BUG OR EQUAL
- INLINE DRIP TO TREES
*TYPE: RAIN BIRD XFCV, 9 GPH/EMITTER, 12-INCH EMITTER SPACING
*INSTALL CHRIS CROSS PATTERN THROUGH TREE AREAS (REFER TO DETAIL)
- INLINE DRIP HEADER PIPE
*TYPE: CLASS 200 PVC, COLOR PURPLE
*SIZE: 1-INCH
- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION (P.O.C.)
- STUB OUT FOR POTENTIAL FUTURE USE
- ISOLATION GATE VALVE ASSEMBLY
*MODEL: NIBCO T113K OR EQUAL
*NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE
- QUICK COUPLING VALVE ASSEMBLY
*MODEL: RAIN BIRD 44NP OR EQUAL
- REMOTE CONTROL VALVE ASSEMBLY
*MODEL: RAIN BIRD PESB-R OR EQUAL
*SIZE AS SHOWN ON PLANS
*BALL VALVE: SPEARS PVC COMPACT OR EQUAL
*DECODER: SEE DECODER NOTES TO RIGHT
- DRIP REMOTE CONTROL VALVE ASSEMBLY
*MODEL: RAIN BIRD X CZ-100-PRB-COM OR EQUAL
*BALL VALVE INCLUDED WITH DRIP ZONE KIT
*DECODER: SEE DECODER NOTES TO RIGHT
- FLUSH CAP ASSEMBLY
*MODEL: RAIN BIRD OR EQUAL

- POP-UP SPRINKLER: RAIN BIRD MPR SERIES ON 1806-SAM-PRS-NP OR EQUAL @ 30 PSI**
- | | | | | |
|-----|-------------|----------------------|----------|----------|
| ●●● | RADIUS: 5' | FLOW (GPM): Q - 0.10 | H - 0.20 | F - 0.41 |
| ▲▲▲ | RADIUS: 8' | FLOW (GPM): Q - 0.26 | H - 0.52 | F - 1.05 |
| ■●● | RADIUS: 10' | FLOW (GPM): Q - 0.39 | H - 0.79 | F - 1.58 |
| ◆●● | RADIUS: 12' | FLOW (GPM): Q - 0.65 | H - 1.30 | F - 2.60 |
| ●●● | RADIUS: 15' | FLOW (GPM): Q - 0.92 | H - 1.85 | F - 3.70 |
- INLINE DRIP RING ASSEMBLY (TREE IRRIGATION)
*RAIN BIRD XFCV, 9 GPH/EMITTER, 12-INCH EMITTER SPACING OR EQUAL
- INLINE DRIP FLUSH VALVE ASSEMBLY
*REFER TO DETAIL
- INDICATES CONTROLLER AND CONTROLLER STATION NUMBER
 INDICATES LATERAL DISCHARGE IN GPM
 INDICATES REMOTE CONTROL VALVE SIZE IN INCHES
- VALVE BOXES**
*MODEL: RAIN BIRD VB SERIES OR EQUAL. LID COLORS PURPLE.
- VALVE DECODER NOTES:**
*INSTALL ONE BL-5201 DECODER WITH AN INDIVIDUAL VALVE
*INSTALL BL-5202 TWO STATION DECODER WHERE THERE ARE A PAIR OF CLUSTERED VALVES
*INSTALL BL-5204 FOUR STATION DECODER WHERE THERE ARE FOUR CLUSTERED VALVES

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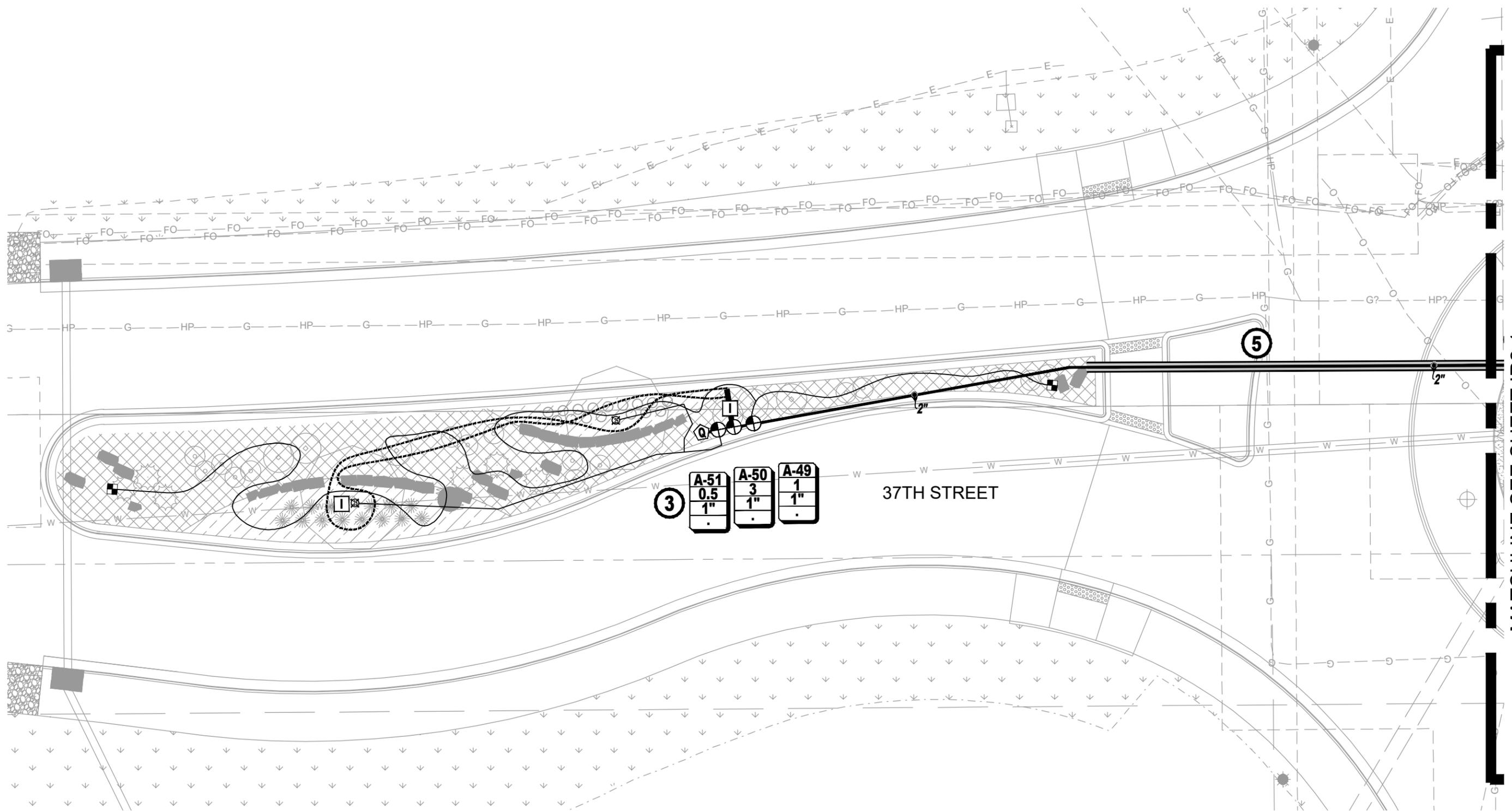
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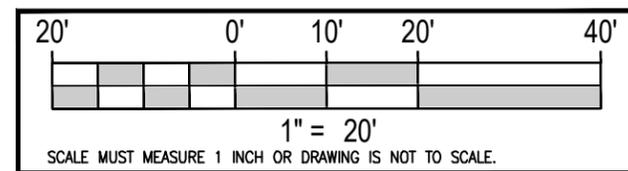


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No Revisions:	IRRIGATION FLAG NOTES AND LEGEND		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR-002
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 124
		Subset Sheets: 2 of 20	

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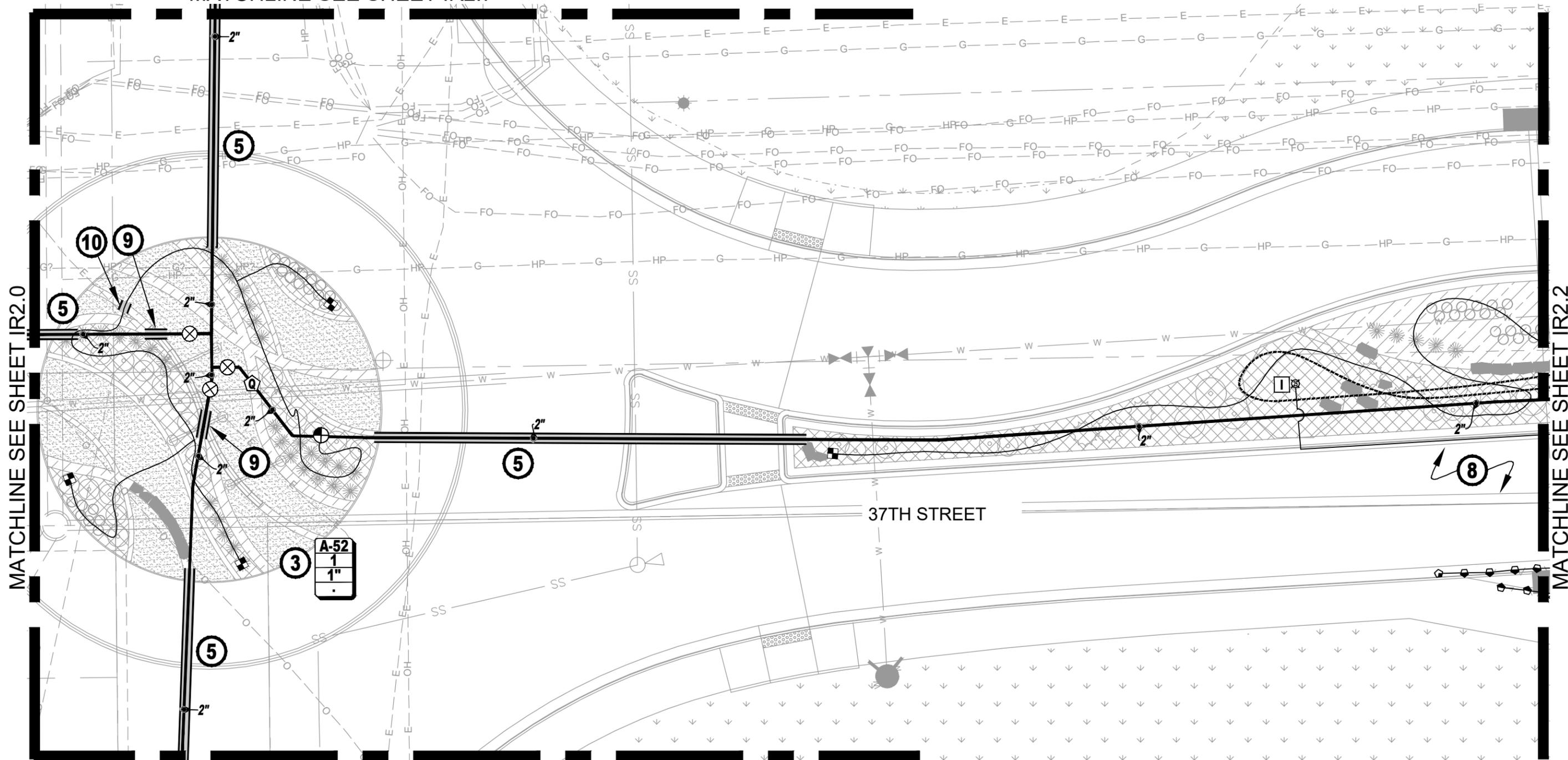


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No Revisions:	IRRIGATION PLAN		
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR-003
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		Subset Sheets: 3 of 20	Sheet Number 125

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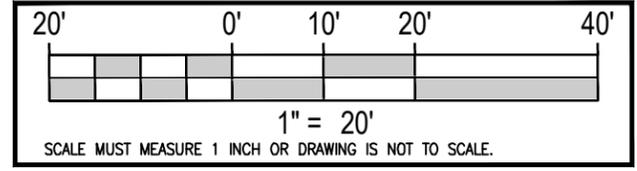
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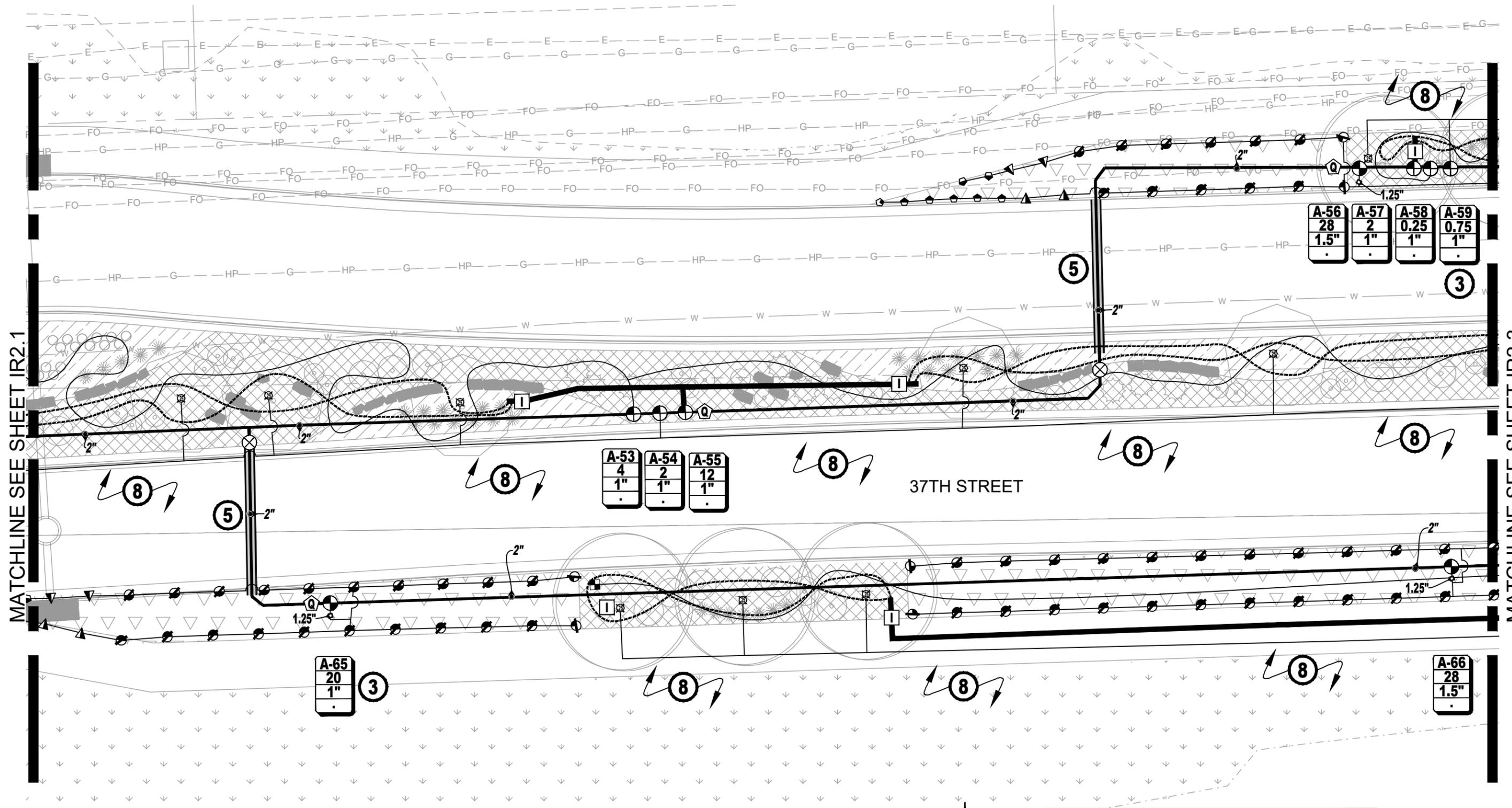
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Project No.
AQC M415-021
Drawing Number IRR-004
Sheet Number 126

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37TH STREET

A-53	A-54	A-55
4	2	12
1"	1"	1"
.	.	.

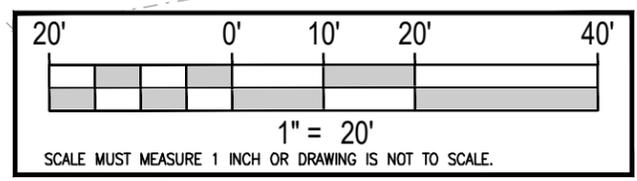
A-56	A-57	A-58	A-59
28	2	0.25	0.75
1.5"	1"	1"	1"
.	.	.	.

A-65
20
1"
.

A-66
28
1.5"
.



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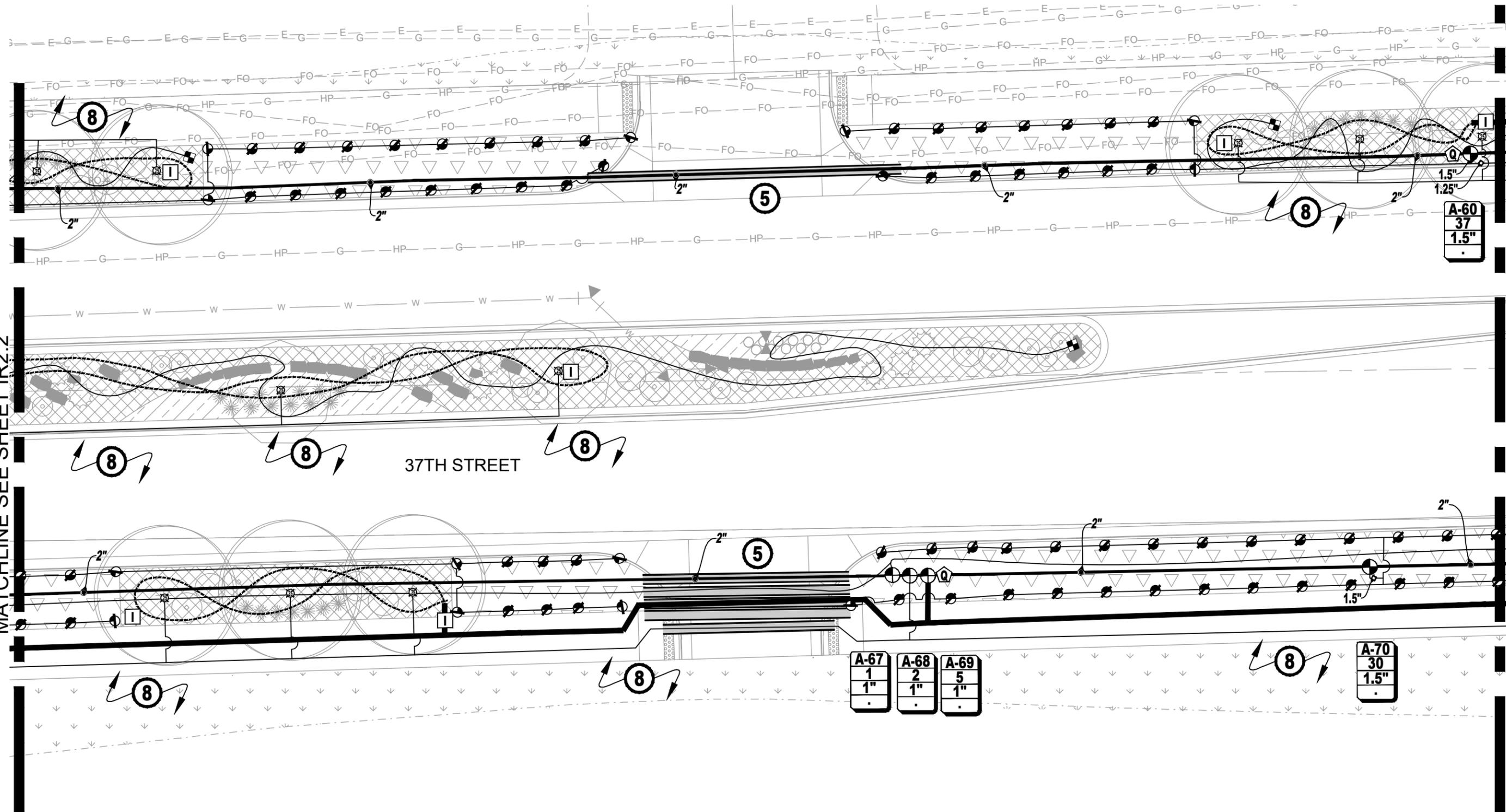


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Project No.	AQC M415-021
Drawing Number	IRR-005
Sheet Number	127

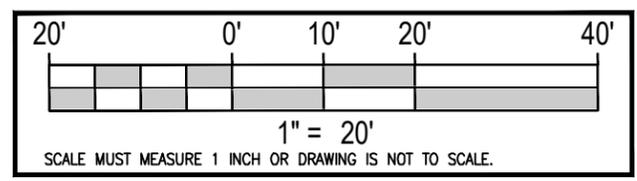
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37TH STREET



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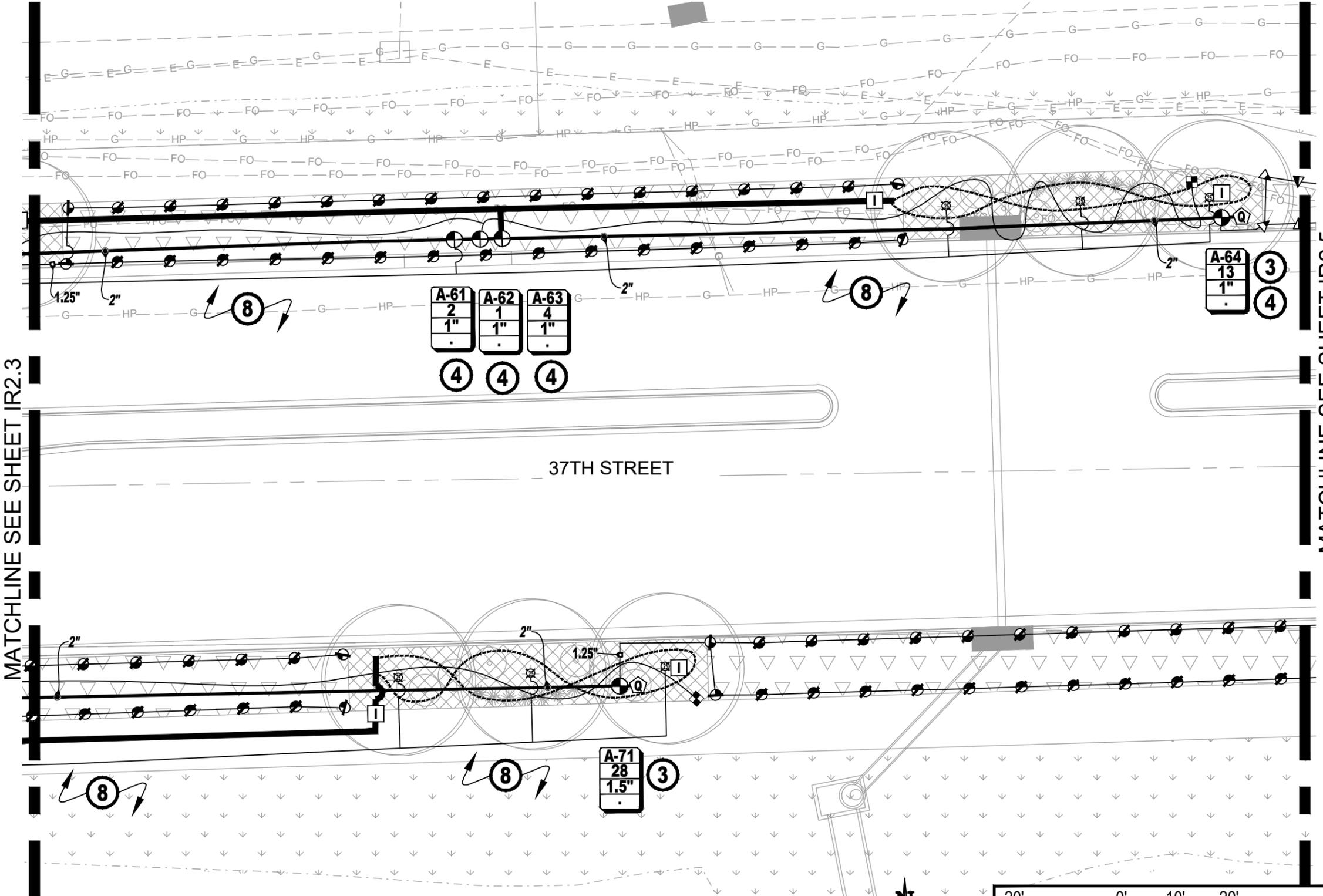
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		Subset Sheets: 6 of 20	

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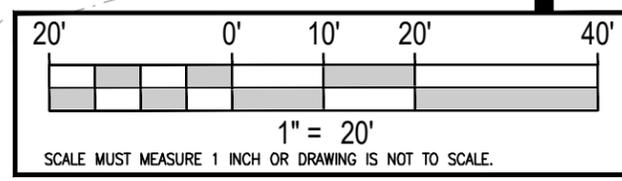
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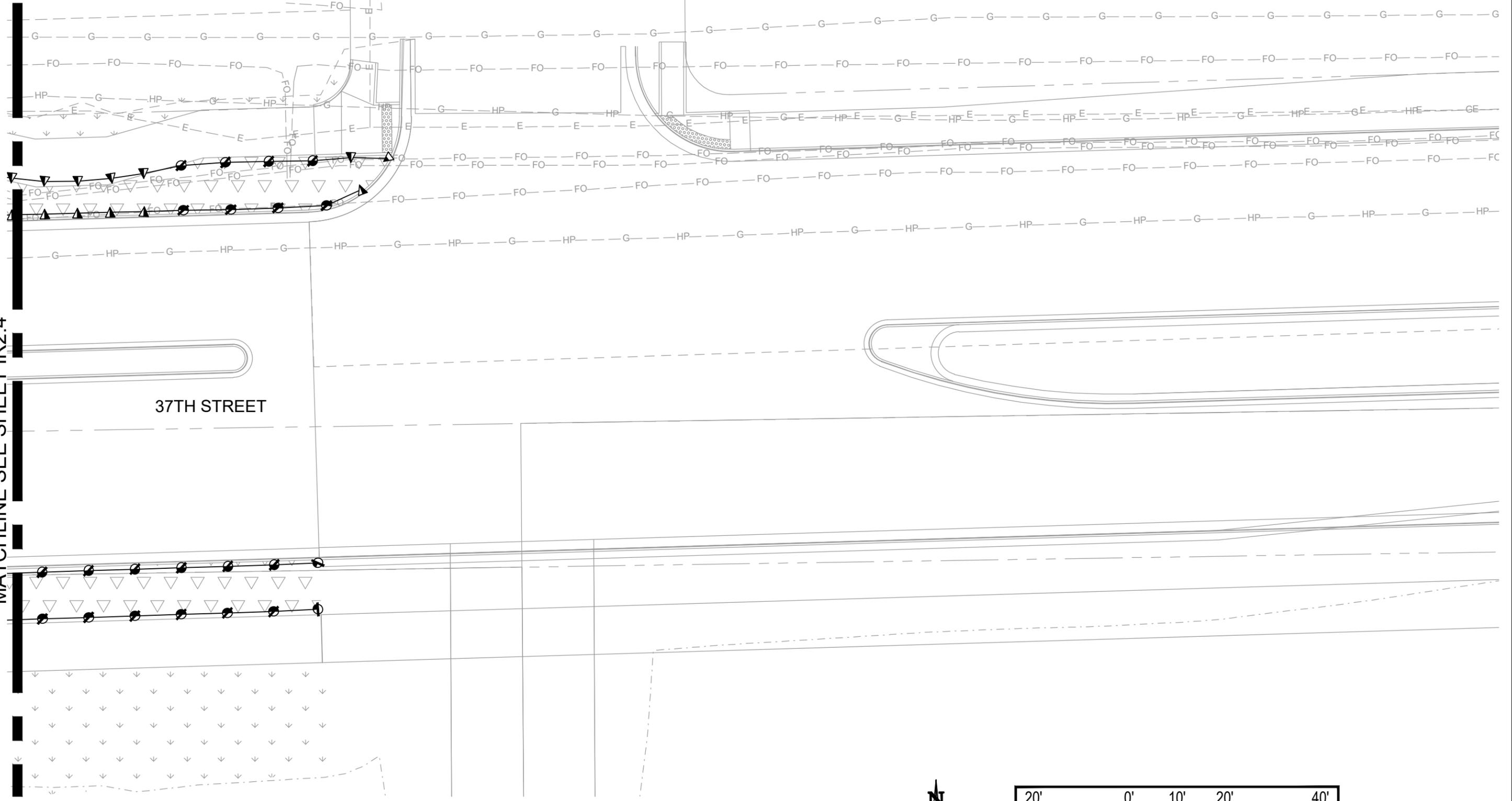
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Detailer:	JHK
Structure Numbers	
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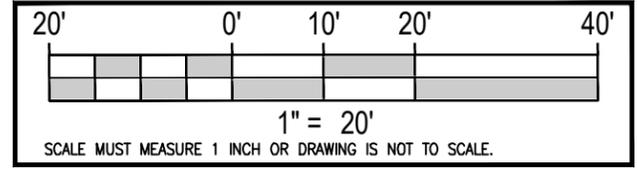
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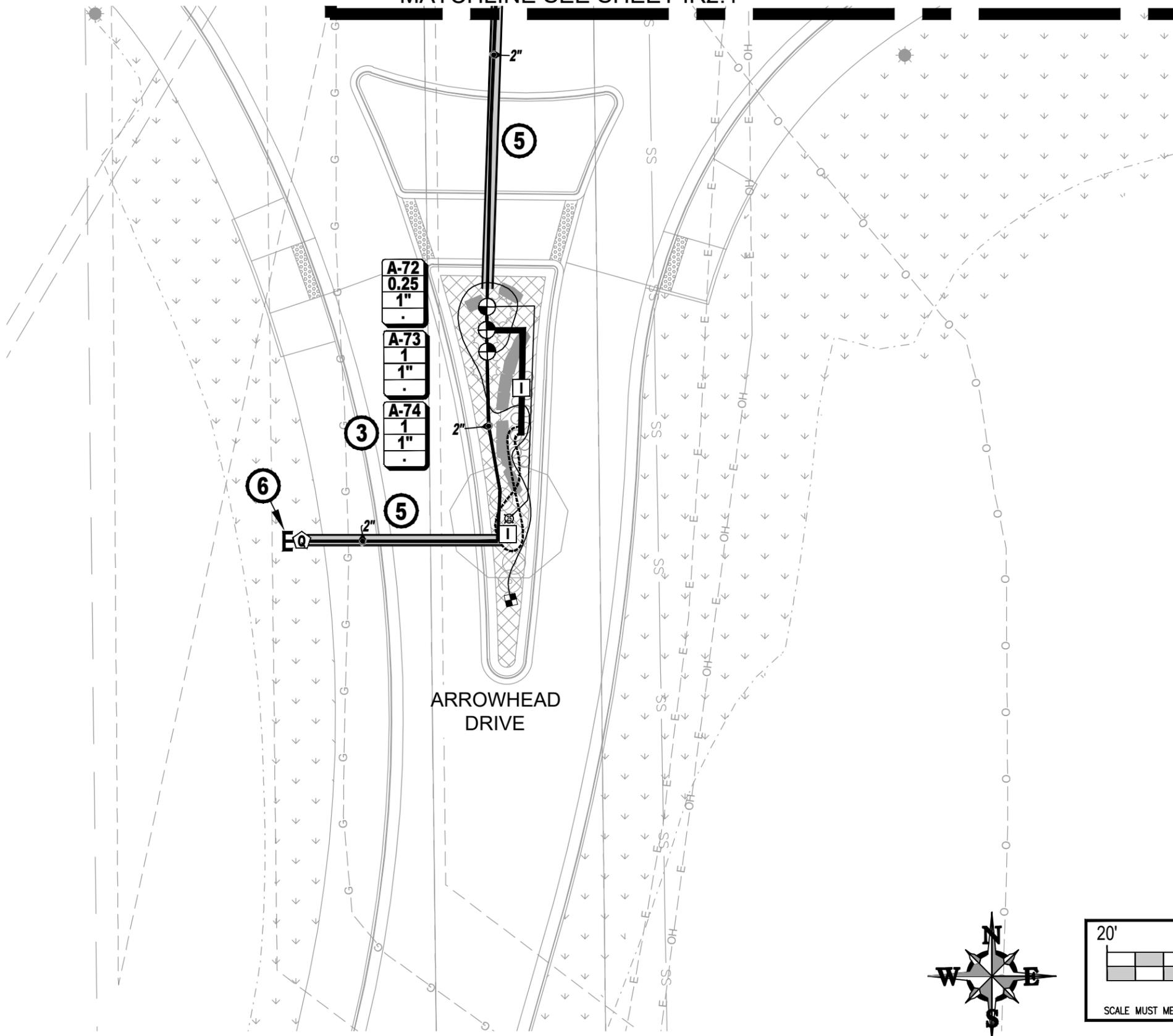
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Project No.
AQC M415-021
Drawing Number IRR-008
Sheet Number 130

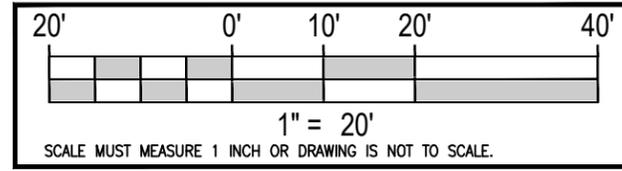
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- A-72
0.25
1"
- A-73
1
1"
- A-74
1
1"

ARROWHEAD DRIVE



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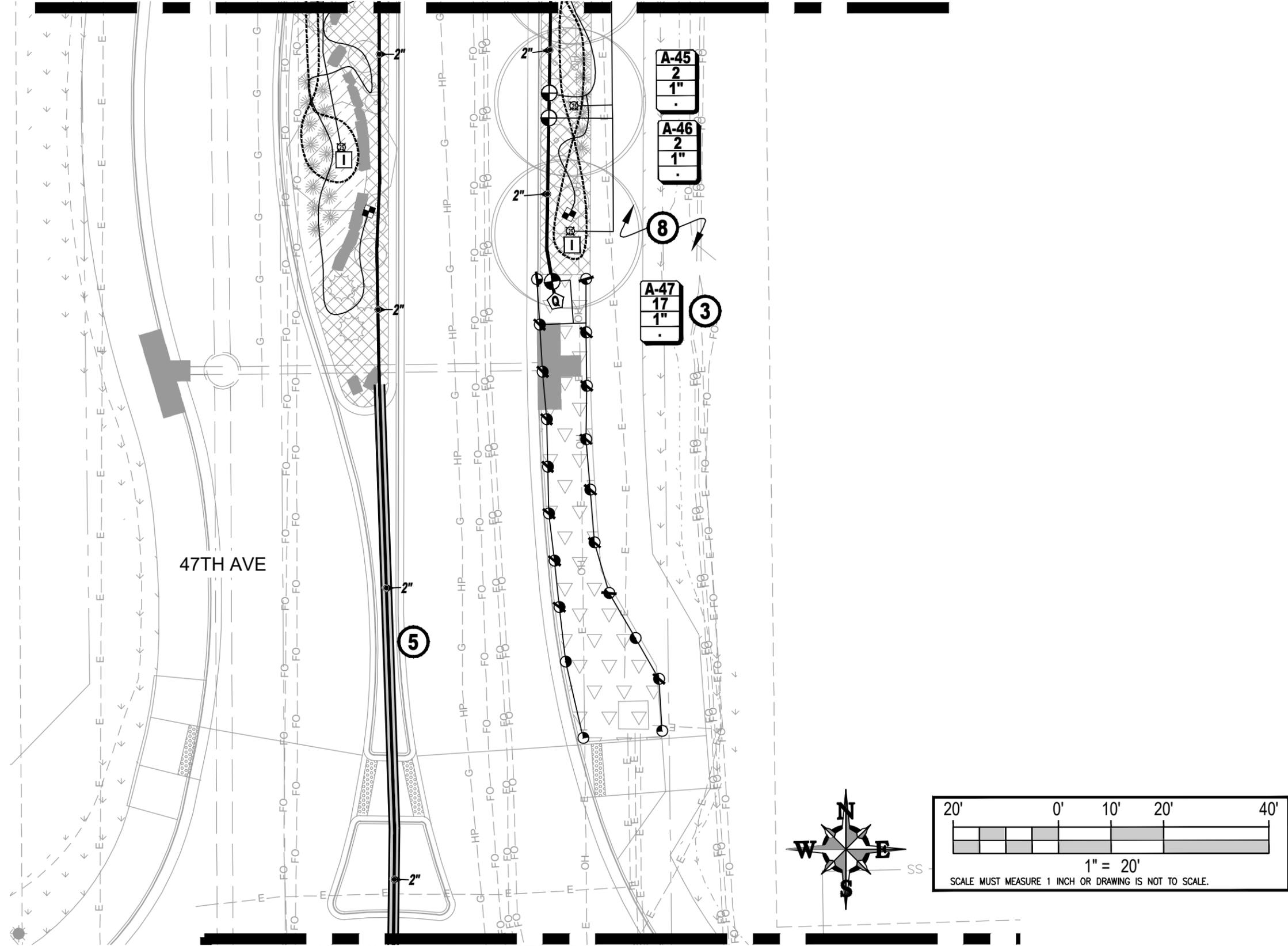
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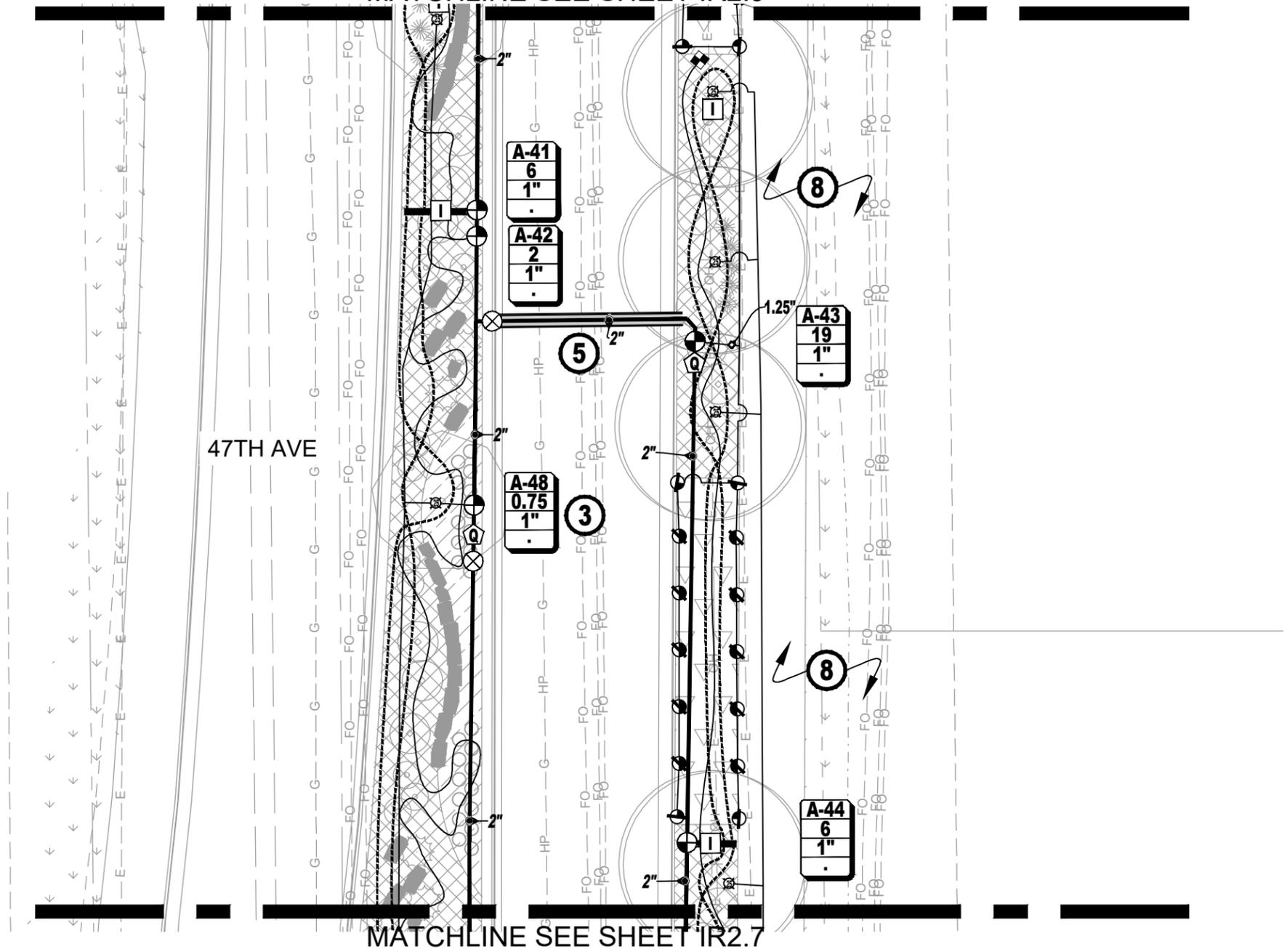
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Drawing Number IRR-010
Sheet Number 132

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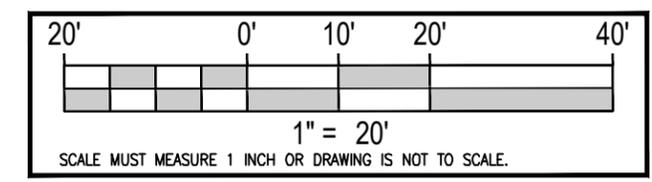
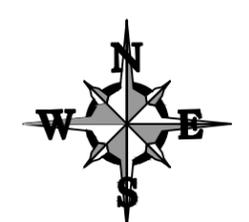
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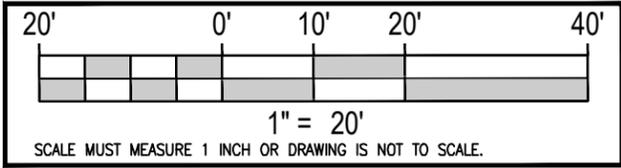
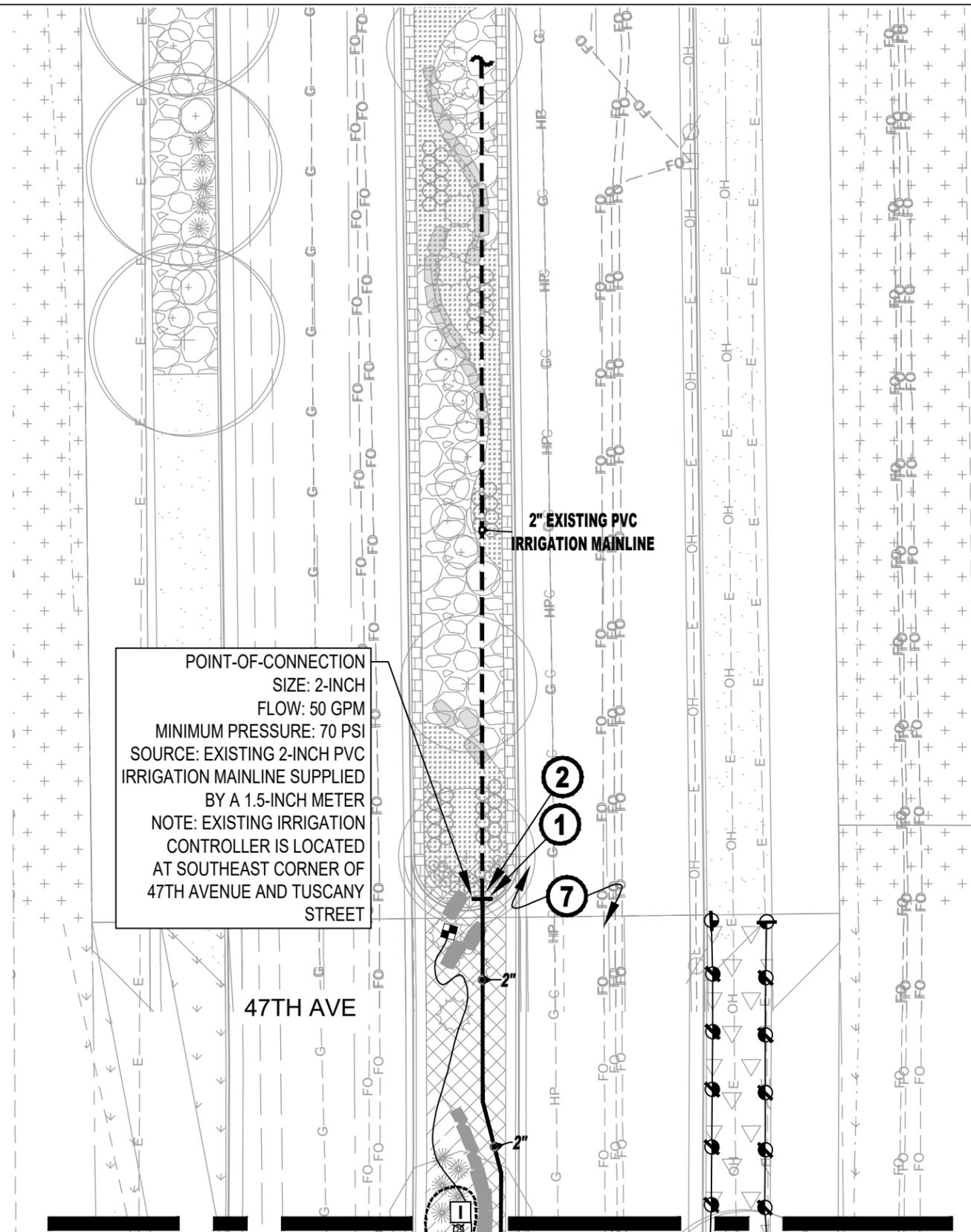
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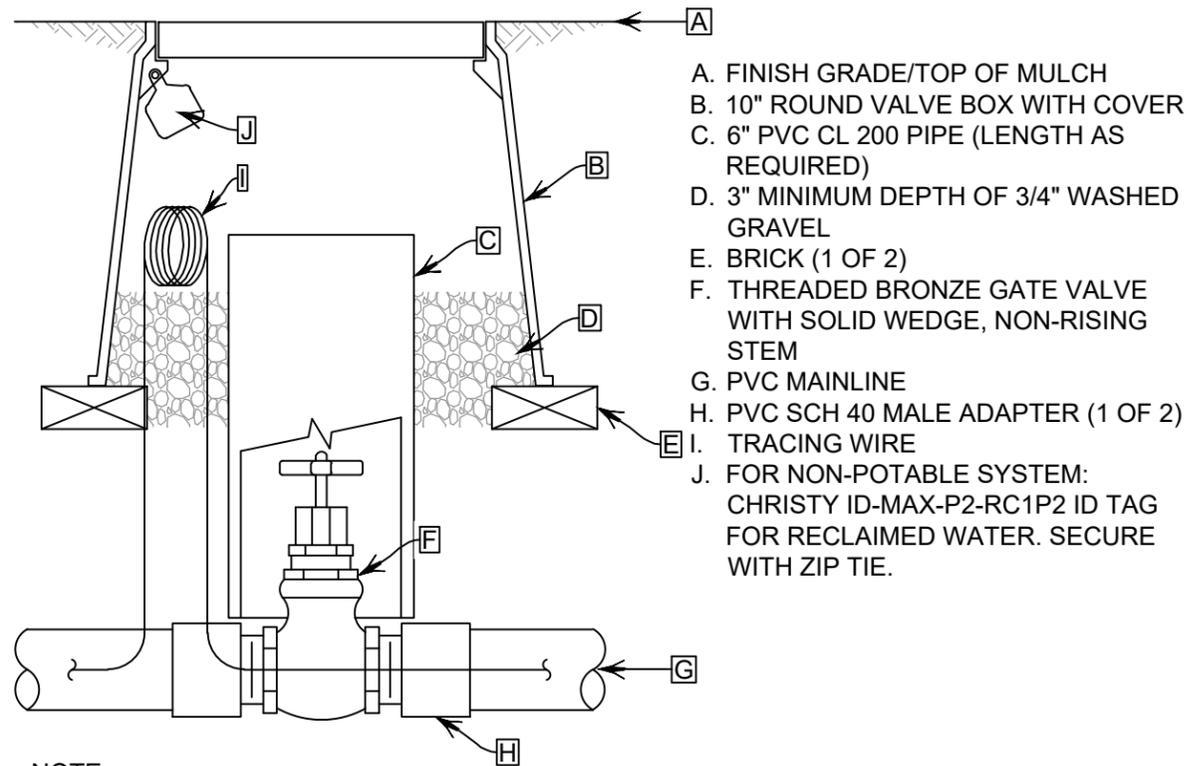
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SLEEVE SIZING SCHEDULE	
MAINLINE SIZE (INCHES)	MINIMUM SLEEVE SIZE (INCHES)
1	2
1.5	3
2	4

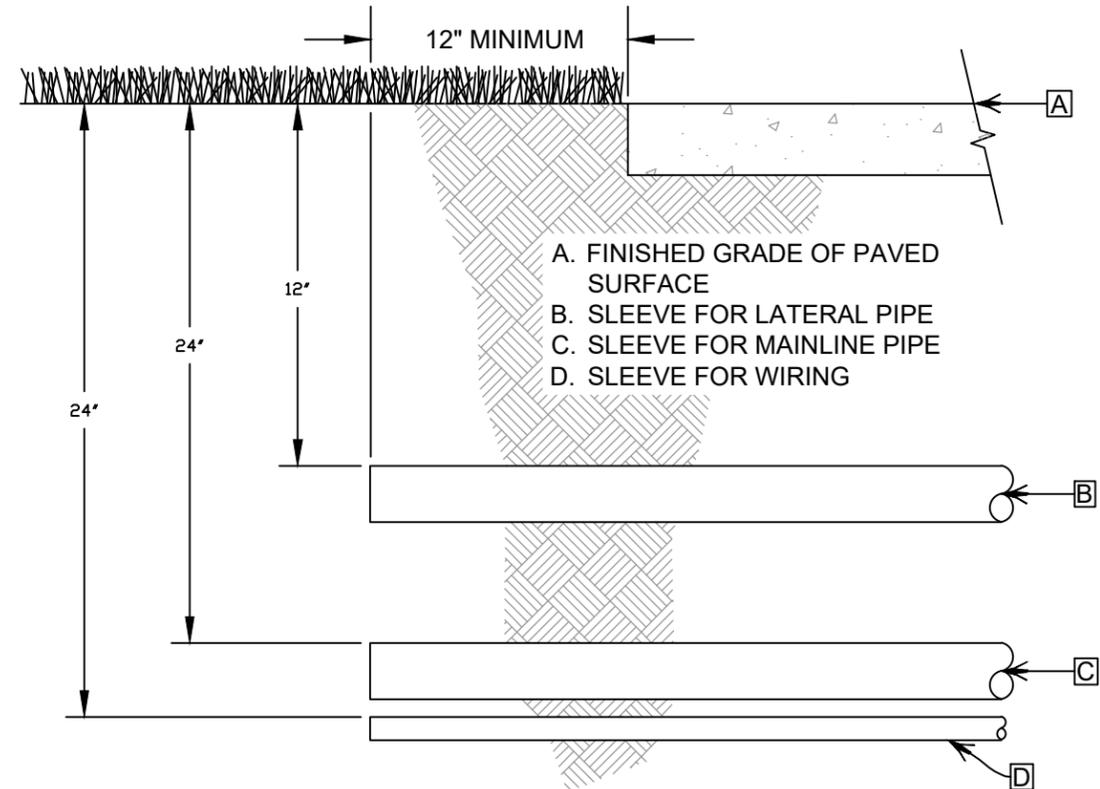
- NOTES:
- REFER TO FLAG NOTE 5 FOR ADDITIONAL SLEEVE SIZE AND QUANTITY INFORMATION.
 - INSTALL 2-INCH SLEEVE FOR TWO WIRE CABLE. REFER TO FLAG NOTE 5 FOR ADDITIONAL INFORMATION.



- A. FINISH GRADE/TOP OF MULCH
- B. 10" ROUND VALVE BOX WITH COVER
- C. 6" PVC CL 200 PIPE (LENGTH AS REQUIRED)
- D. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- E. BRICK (1 OF 2)
- F. THREADED BRONZE GATE VALVE WITH SOLID WEDGE, NON-RISING STEM
- G. PVC MAINLINE
- H. PVC SCH 40 MALE ADAPTER (1 OF 2)
- I. TRACING WIRE
- J. FOR NON-POTABLE SYSTEM: CHRISTY ID-MAX-P2-RC1P2 ID TAG FOR RECLAIMED WATER. SECURE WITH ZIP TIE.

NOTE:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

1 ISOLATION GATE VALVE ASSEMBLY N.T.S.



- A. FINISHED GRADE OF PAVED SURFACE
- B. SLEEVE FOR LATERAL PIPE
- C. SLEEVE FOR MAINLINE PIPE
- D. SLEEVE FOR WIRING

NOTE:
1. INSTALL SLEEVE SO THAT ITS LOWEST ELEVATION OCCURS AT ONE OR BOTH ENDS - NOT ALONG ITS LENGTH.

2 SLEEVE DETAIL N.T.S.



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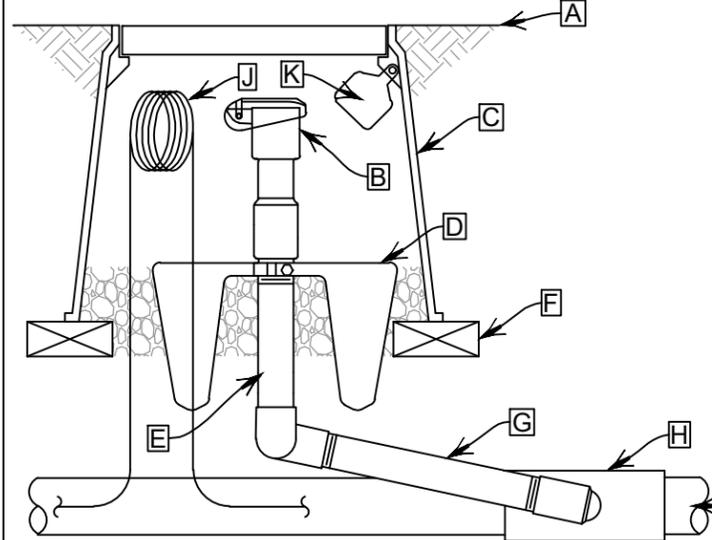
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	Sheet Subset: IRRIGATION	Subset Sheets: 13 of 20	

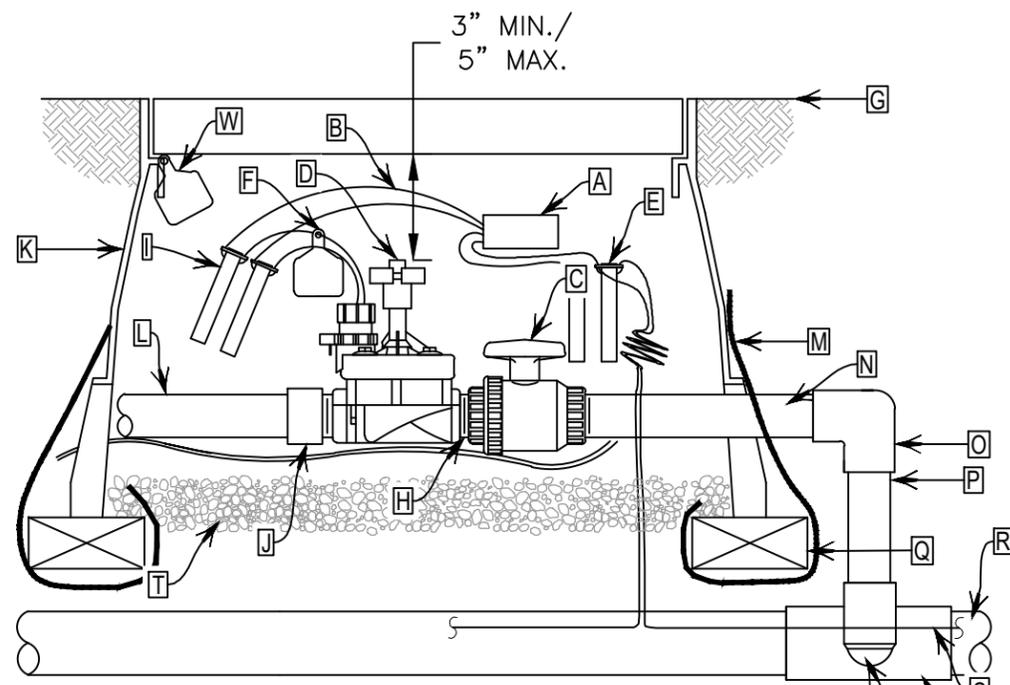
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- A. FINISH GRADE/TOP OF MULCH
- B. QUICK-COUPLING VALVE
- C. 10" ROUND VALVE BOX WITH COVER
- D. HARCO QUICK COUPLER ANCHOR
- E. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED)
- F. BRICK (1 OF 2)
- G. PRE-FABRICATED UNITIZED SWING JOINT 1" MIPT INLET X SOC OUTLET
- H. TEE OR EL: SEE SPECIFICATIONS FOR MATERIALS
- I. PVC MAINLINE PIPE
- J. TRACING WIRE
- K. FOR NON-POTABLE SYSTEM: CHRISTY ID-MAX-P2-RC1P2 ID TAG FOR RECLAIMED WATER. SECURE WITH ZIP TIE.

- NOTES:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
 2. INSTALLATION HEIGHT OF QUICK COUPLER VALVE IN VALVE BOX MUST ALLOW PROPER OPERATION OF QUICK COUPLER KEY.
 3. INSTALL SWING JOINT LAY ARM BETWEEN 30° AND 45° OF LATERAL PIPE IN ORDER TO ABSORB DOWNWARD IMPACT.



- NOTES:
1. USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
 2. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
 3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
 4. TRANSITION TO PROPER LATERAL PIPE BURIAL DEPTH USING 45° ELBOW FITTINGS DOWNSTREAM OF REMOTE CONTROL VALVE ASSEMBLY.
 5. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.
 6. POSITION VALVE BOX OVER VALVE TO ALLOW ACCESS TO SOLENOID AND PROPER OPERATION OF BALL VALVE.
 7. COIL 3-FEET OF WIRE FOR EACH DECODER FOR SERVICE PURPOSES.

- A. DECODER
- B. WIRE FROM DECODER TO VALVE SEE SPECIFICATIONS
- C. PVC BALL VALVE
- D. REMOTE CONTROL VALVE
- E. WIRE CONNECTOR FROM TWO-WIRE CABLE TO DECODER (1 OF 2)
- F. CHRISTY ID TAG
- G. FINISH GRADE
- H. PVC SCH 80 CLOSE NIPPLE
- I. WIRE CONNECTOR FROM DECODER TO SOLENOID VALVE (1 OF 2)
- J. PVC SCH 40 MALE ADAPTER
- K. 12" STANDARD VALVE BOX WITH COVER
- L. PVC LATERAL PIPE
- M. FILTER FABRIC
- N. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED)
- O. PVC SCH 40 EL
- P. PVC SCH 40 PIPE (LENGTH AS REQUIRED)
- Q. BRICK (1 OF 4)
- R. PVC MAINLINE
- S. TWO-WIRE CABLE
- T. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- U. TEE OR EL: SEE SPECIFICATIONS FOR MATERIALS
- V. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED, HIDDEN) AND PVC SCH 40 EL
- W. FOR NON-POTABLE SYSTEM: CHRISTY ID-MAX-P2-RC1P2 ID TAG FOR RECLAIMED WATER. SECURE WITH ZIP TIE.

1 QUICK COUPLING VALVE ASSEMBLY N.T.S.

2 REMOTE CONTROL VALVE ASSEMBLY N.T.S.



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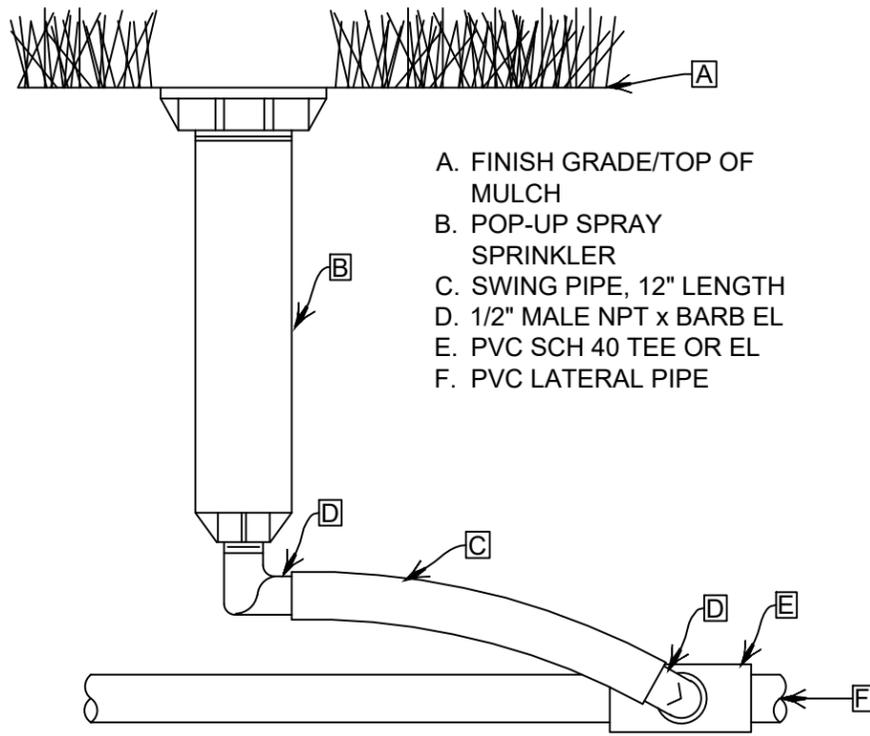
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37TH STREET WIDENING PHASE 1
 IRRIGATION DETAILS
 Designer: JHK
 Detailer: JHK
 Sheet Subset: IRRIGATION
 Subset Sheets: 14 of 20

Project No.
 AQC M415-021
 Drawing Number IRR-014
 Sheet Number 136

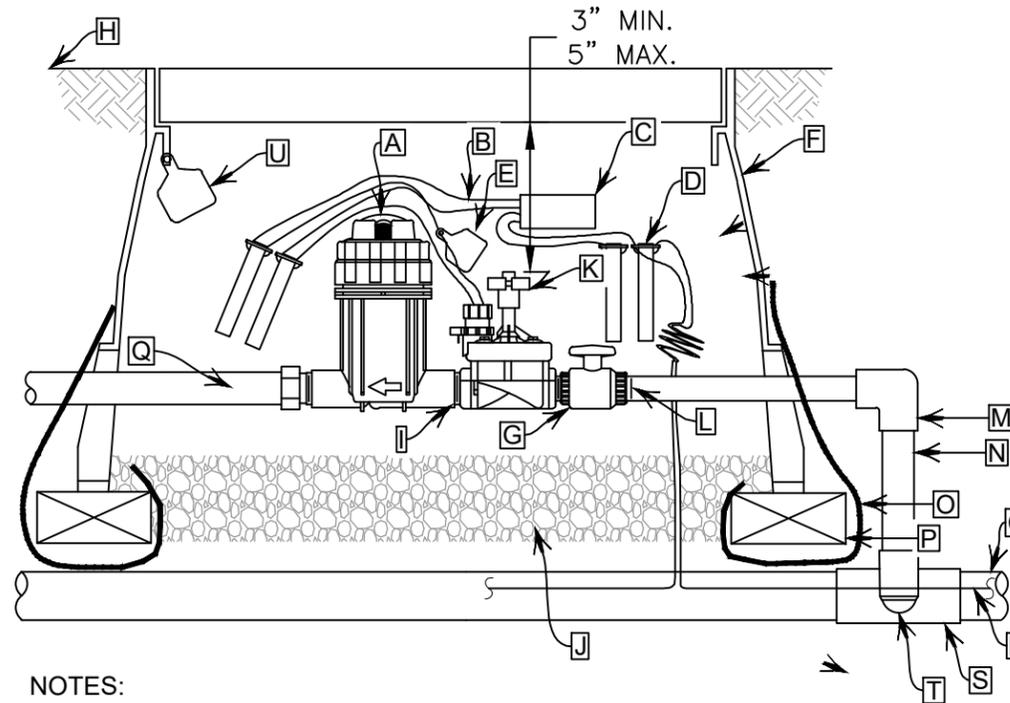
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- A. FINISH GRADE/TOP OF MULCH
- B. POP-UP SPRAY SPRINKLER
- C. SWING PIPE, 12" LENGTH
- D. 1/2" MALE NPT x BARB EL
- E. PVC SCH 40 TEE OR EL
- F. PVC LATERAL PIPE

1 POP-UP SPRAY SPRINKLER ASSEMBLY N.T.S.



- A. PRESSURE REGULATING FILTER
- B. WIRE FROM DECODER TO VALVE SEE SPECIFICATIONS
- C. DECODER
- D. WIRE CONNECTOR FROM TWO-WIRE CABLE TO DECODER (1 OF 2)
- E. CHRISTY I.D. TAG
- F. JUMBO VALVE BOX WITH COVER
- G. PVC BALL VALVE
- H. FINISH GRADE/TOP OF MULCH
- I. PVC SCH 80 NIPPLE
- J. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- K. REMOTE CONTROL VALVE
- L. PVC SCH 80 TOE NIPPLE
- M. PVC SCH 40 EL
- N. PVC SCH 40 PIPE (TYPICAL) (LENGTH AS REQUIRED)
- O. FILTER FABRIC
- P. BRICK (1 OF 4)
- Q. MANIFOLD/DRIP LATERAL. SEE NOTE 8.
- R. TWO-WIRE CABLE
- S. TEE OR EL: SEE SPECIFICATIONS FOR MATERIALS
- T. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED, HIDDEN) AND PVC SCH 40 EL
- U. FOR NON-POTABLE SYSTEM: CHRISTY ID-MAX-P2-RC1P2 ID TAG FOR RECLAIMED WATER. SECURE WITH ZIP TIE.

NOTES:

1. USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
2. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
4. TRANSITION TO PROPER LATERAL PIPE BURIAL DEPTH USING 45° ELBOW FITTINGS DOWNSTREAM OF REMOTE CONTROL VALVE ASSEMBLY.
5. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.
6. POSITION VALVE BOX OVER VALVE TO ALLOW ACCESS TO SOLENOID, AND PROPER OPERATION OF BALL VALVE.
7. COIL 3-FEET OF WIRE FOR EACH DECODER FOR SERVICE PURPOSES.
8. IN CASES OF DIRECT DRIP LATERAL PIPE CONNECTION INSTALL SCH. 40 PVC BARB FITTING TO PRESSURE REGULATING BASKET. SECURE CONNECTION WITH STAINLESS STEEL PINCH CLAMPS.
9. SEE DECODER GROUNDING SCHEMATIC FOR ADDITIONAL DECODER GROUNDING INFORMATION.

2 DRIP REMOTE CONTROL VALVE ASSEMBLY N.T.S.



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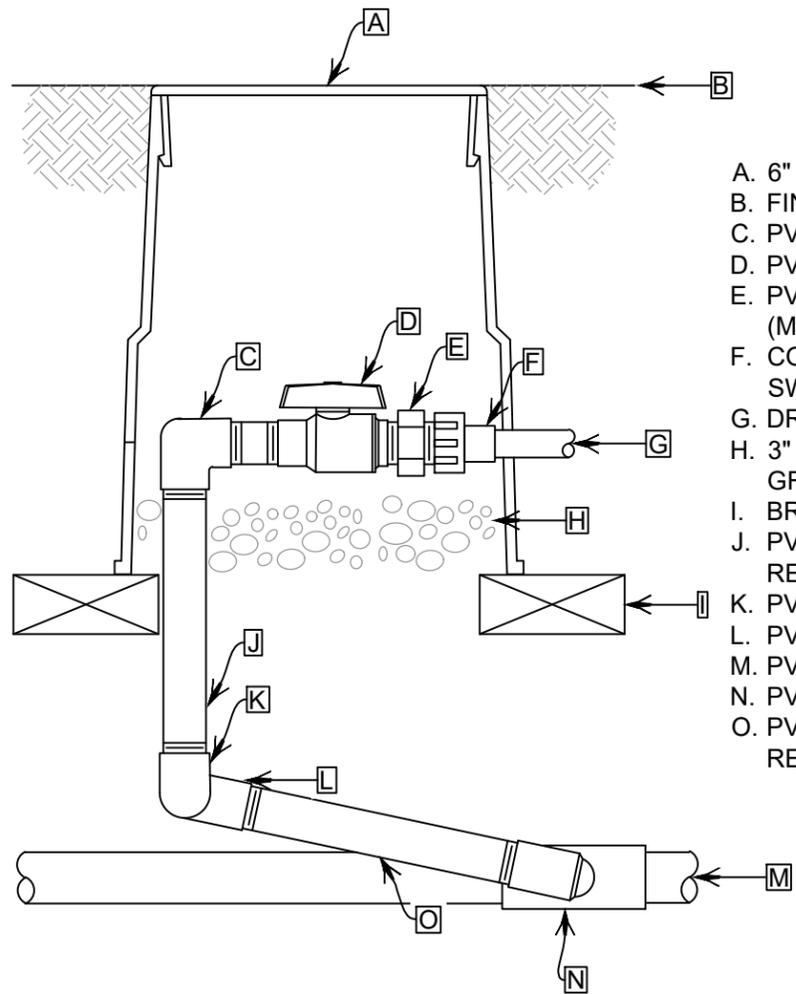
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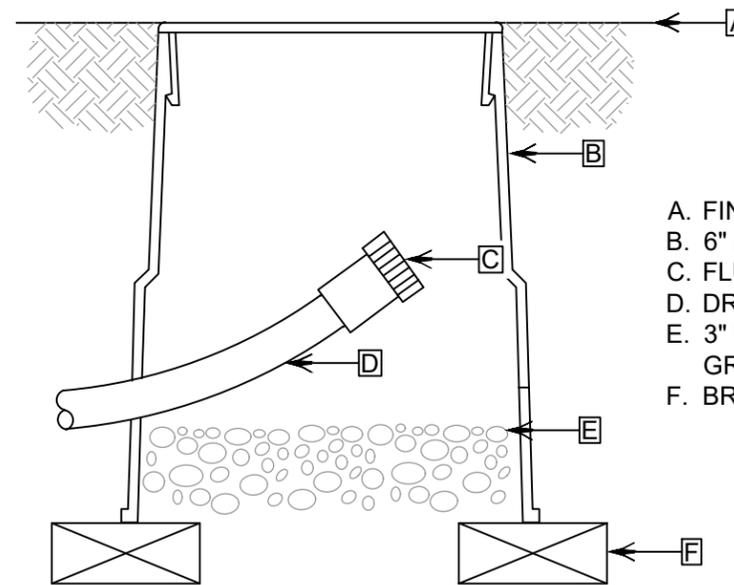
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No Revisions:			AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR-015
Void:	Detailer: JHK		Sheet Number 137
Sheet Subset: IRRIGATION		Subset Sheets: 15 of 20	





- A. 6" ROUND VALVE BOX WITH COVER
- B. FINISH GRADE/TOP OF MULCH
- C. PVC SCH. 40 EL
- D. PVC BALL VALVE
- E. PVC SCH. 40 TRANSITION NIPPLE (MIPTxMHT)
- F. COMPRESSIONxFEMALE HOSE SWIVEL ADAPTER
- G. DRIP LATERAL PIPING
- H. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- I. BRICK (1 OF 2)
- J. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED, 1 OF 2)
- K. PVC SCH 40 EL
- L. PVC SCH 40 STREET EL (1 OF 2)
- M. PVC DRIP MANIFOLD PIPE
- N. PVC SCH 40 TEE OR EL
- O. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

1 ZONE CONTROL VALVE ASSEMBLY N.T.S.



- A. FINISH GRADE/TOP OF MULCH
- B. 6" ROUND VALVE BOX WITH COVER
- C. FLUSH CAP WITH HOSE THREAD CAP
- D. DRIP IRRIGATION LATERAL
- E. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- F. BRICK (1 OF 2)

NOTE:
1. INSTALL FLUSH CAP ASSEMBLY AT THE END OF EACH DRIP LATERAL SEGMENT.

2 FLUSH CAP ASSEMBLY N.T.S.



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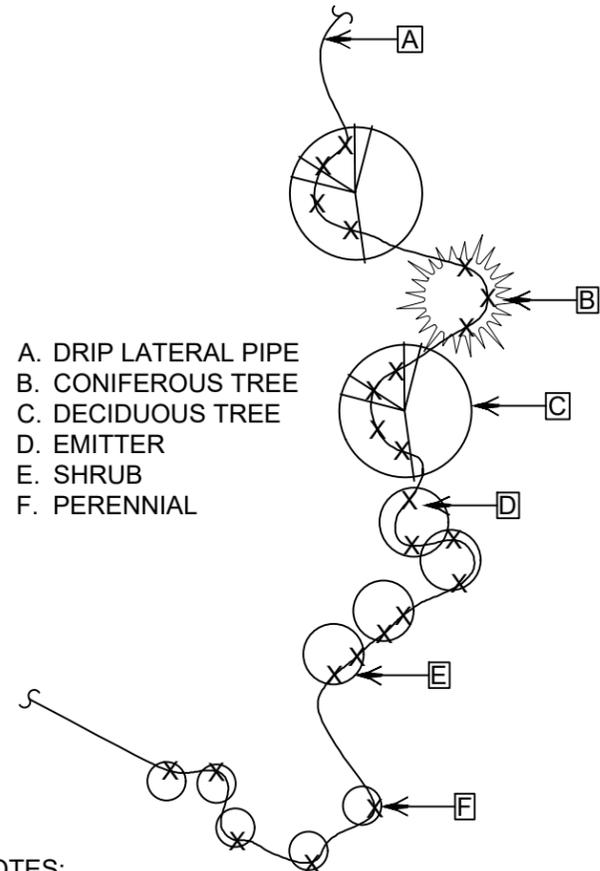
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No Revisions:			AQC M415-021
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Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 138
		Subset Sheets: 16 of 20	

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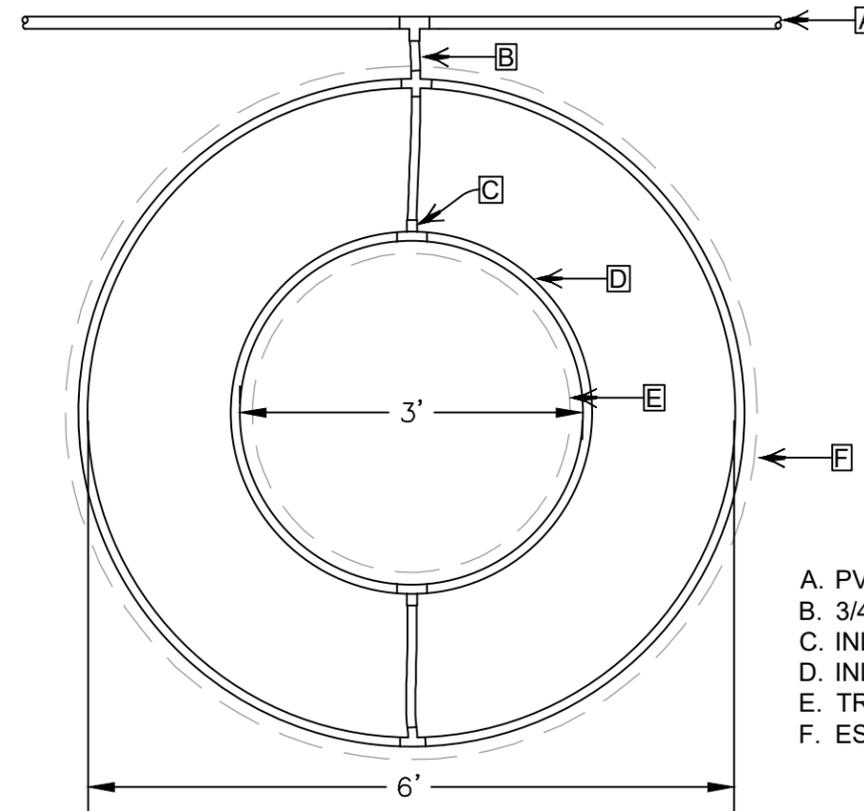


- A. DRIP LATERAL PIPE
- B. CONIFEROUS TREE
- C. DECIDUOUS TREE
- D. EMITTER
- E. SHRUB
- F. PERENNIAL

NOTES:

1. EMITTERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO PERENNIALS AND AT THE OUTSIDE PERIMETER OF THE PLANTING PIT OF ALL SHRUBS AND TREES.
2. INSTALL FOUR 1 GPH EMITTERS PER DECIDUOUS TREE.
3. INSTALL THREE 1 GPH EMITTER PER CONIFEROUS TREE.
4. INSTALL TWO 1 GPH EMITTER PER SHRUB.
5. INSTALL ONE 1 GPH EMITTER PER PERENNIAL.

1 POINT SOURCE DRIP PLACEMENT
DETAIL N.T.S.



- A. PVC PIPE
- B. 3/4" POLYETHYLENE PIPE
- C. INLINE DRIP TUBING TEE FITTING
- D. INLINE DRIP TUBING
- E. TREE ROOTBALL
- F. ESTIMATED DRIPLINE OF TREE

NOTE:

1. PROVIDE A 3-FT AND 6-FT DIAMETER RING OF INLINE DRIP TUBING AROUND EACH TREE ROOTBALL. TOTAL ESTIMATED FLOW PER TREE IS 0.4 GPM.
2. INSTALL INLINE DRIP TUBING 4" BELOW GRADE AROUND EACH TREE.

2 INLINE DRIP RING
ASSEMBLY N.T.S.



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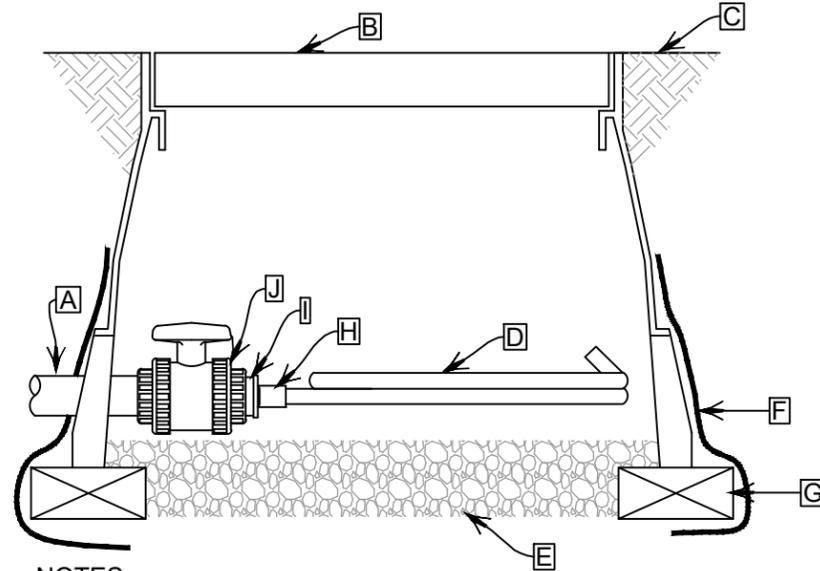


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Revised:	Detailer: JHK		Sheet Number 139
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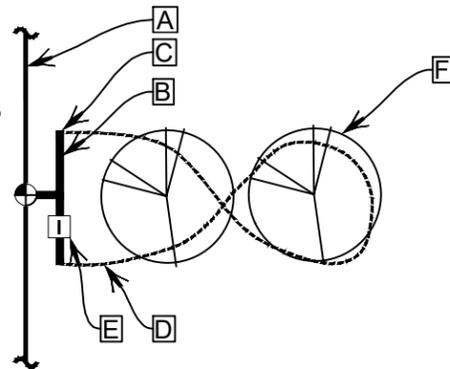
- A. PVC PIPE
- B. 12" STANDARD VALVE BOX WITH COVER
- C. FINISH GRADE/TOP OF MULCH
- D. FLEXIBLE VINYL IRRIGATION HOSE:
AQUARIUS BRANDS 5/8" FLEX VINYL
IRRIGATION HOSE
- E. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- F. FILTER FABRIC
- G. BRICK (1 OF 4)
- H. SCH 40 PVC HOSE FITTING: MIPT X HOSE
FITTING
- I. SCH 40 PVC REDUCER BUSHING FITTING
(SPIG X FIPT)
- J. TRUE UNION PVC BALL VALVE



- NOTES:
1. NOMINAL SIZE OF BALL VALVE TO MATCH NOMINAL LATERAL SIZE.
 2. USE FOR FLUSHING AND WINTERIZATION OF DRIP LATERAL.
 3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

2 INLINE DRIP FLUSH VALVE LAYOUT I
N.T.S.

- A. PVC MAINLINE
- B. 1-INCH PVC PIPE
- C. CONNECTION:
SCH. 40 PVC BARB
WITH STAINLESS
STEEL PINCH
CLAMP
- D. INLINE DRIP
TUBING
- E. INLINE DRIP
FLUSH VALVE
(SEE DETAIL THIS
SHEET)
- F. TREE



- NOTES:
1. 1-INCH PVC PIPE TO BE 12-INCHES BELOW GRADE.
 2. INLINE DRIP TUBING TO BE 4-INCHES BELOW GRADE.

1 INLINE DRIP TO TREES LAYOUT N.T.S.



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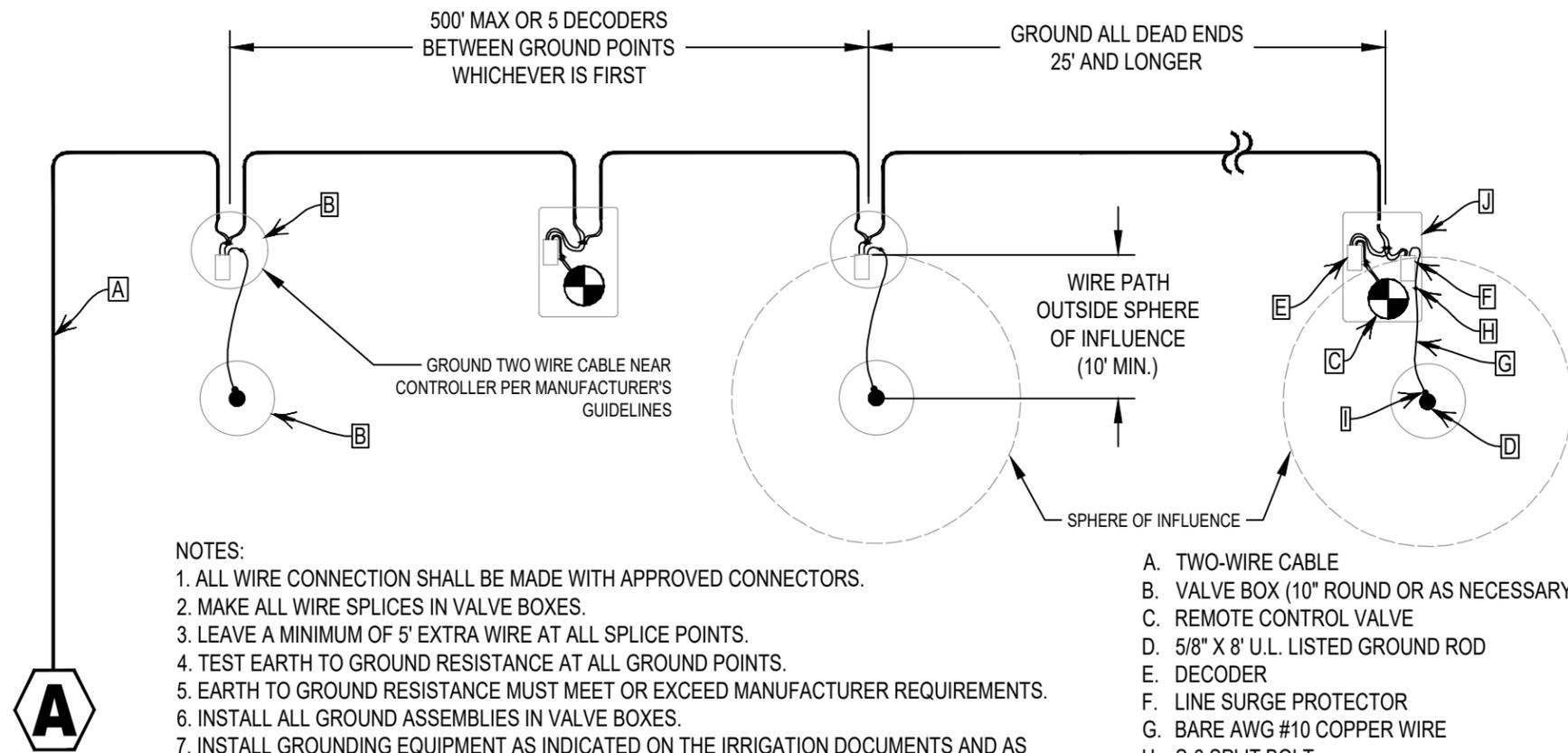


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			Sheet Number 140



1 TWO WIRE GROUNDING
 DETAIL N.T.S.



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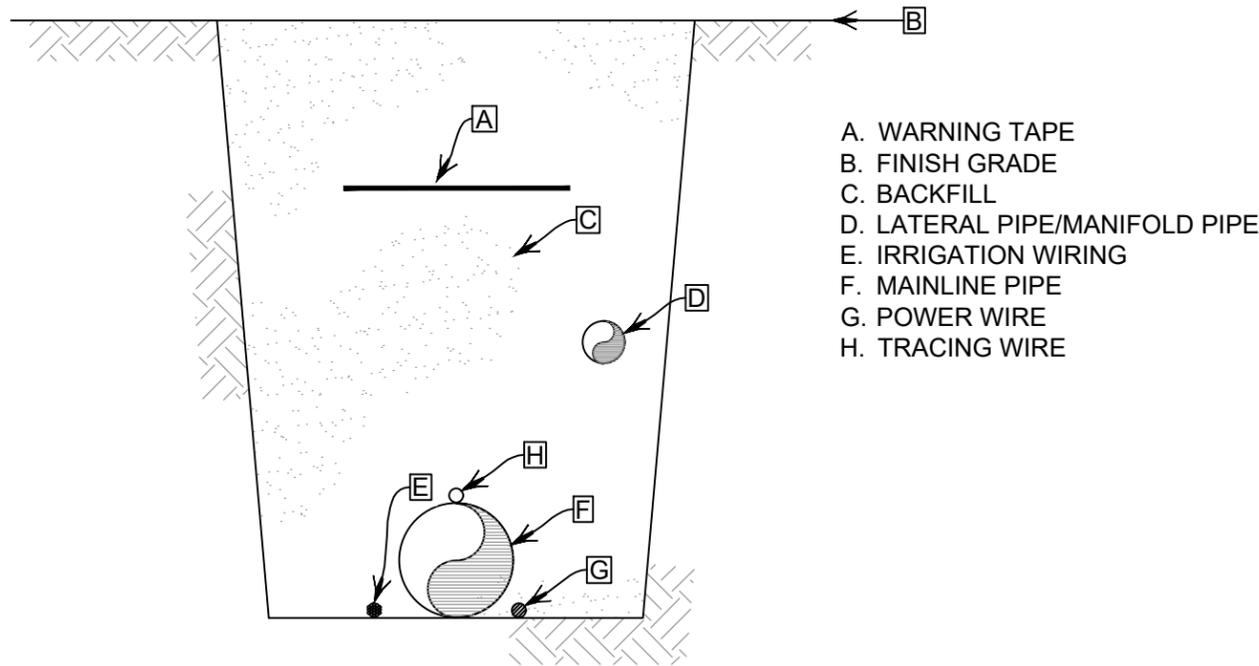
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No Revisions:	Designer: JHK	Structure Numbers	Drawing Number IRR-019
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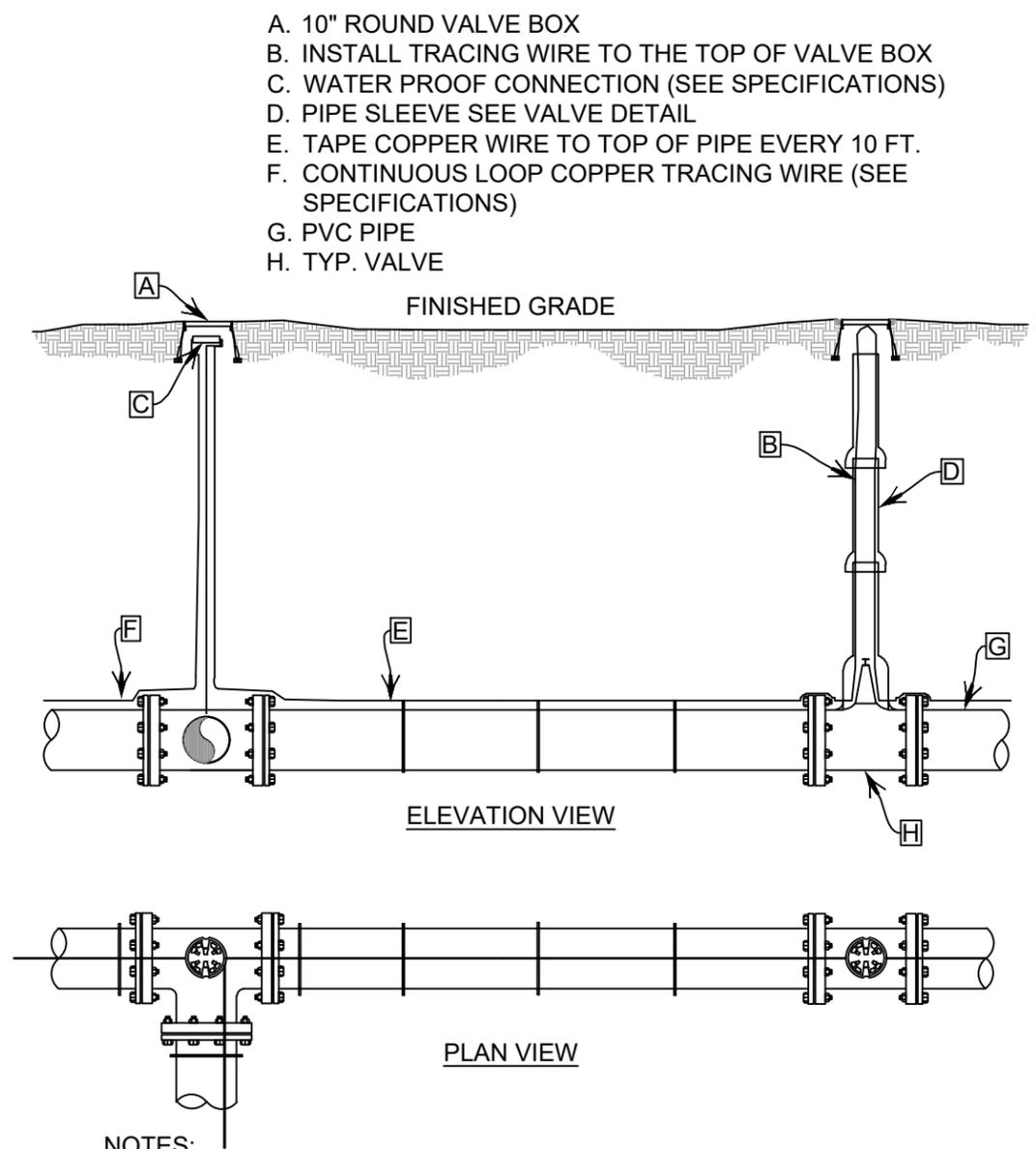
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- A. WARNING TAPE
- B. FINISH GRADE
- C. BACKFILL
- D. LATERAL PIPE/MANIFOLD PIPE
- E. IRRIGATION WIRING
- F. MAINLINE PIPE
- G. POWER WIRE
- H. TRACING WIRE

NOTE:
1. REFER TO IRRIGATION SPECIFICATIONS FOR COVERAGE DEPTH TO BURIED PIPE AND WIRE.

1 TRENCH DETAIL N.T.S.



- A. 10" ROUND VALVE BOX
- B. INSTALL TRACING WIRE TO THE TOP OF VALVE BOX
- C. WATER PROOF CONNECTION (SEE SPECIFICATIONS)
- D. PIPE SLEEVE SEE VALVE DETAIL
- E. TAPE COPPER WIRE TO TOP OF PIPE EVERY 10 FT.
- F. CONTINUOUS LOOP COPPER TRACING WIRE (SEE SPECIFICATIONS)
- G. PVC PIPE
- H. TYP. VALVE

NOTES:
1. COPPER TRACING WIRE WILL START AT THE MASTER VALVE AND WILL BE ROUTED WITH ALL MAINLINE PIPE.
2. SPLICE TRACING WIRE IN IRRIGATION MAINLINE COMPONENT VALVE BOXES WHEN POSSIBLE, OTHERWISE, PLACE SPLICE IN SEPARATE VALVE BOX.

2 TRACING WIRE DETAIL N.T.S.

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CONSTRUCTION PHASING GENERAL NOTES:

The Contractor shall prepare and submit a Traffic Control Plan (TCP) prior to starting. The TCP shall be submitted to the City of Evans' Project Engineer for review and approval no less than five business days prior to starting construction.

The TCP shall conform to the requirements of Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition, and the Colorado Department of Transportation M & S Standard Plans, 2019 (S-630-1 and S-630-2).

Project requirements include:

1. All construction work during the full road and intersection closure (Phase 1 only) shall be completed between the hours of 6:00 AM and 7:00 PM Monday through Friday. All construction work that will be in traffic lanes or affect the flow of traffic shall be completed between the hours of 9:00 AM and 4:00 PM Monday through Friday. Construction work that will not affect traffic shall be completed between the hours of 7:00 AM and 7:00 PM.
2. There shall be no work performed on weekends, or holidays except by approval of the City of Evans with a minimum of 24 hours notice. Refer to the City of Evans website for approved city holidays: www.evanscolorado.gov/cityclerk/city-holidays.
3. It is the Contractor's responsibility to provide a safe traveled way for vehicular traffic traveling through the construction zone and within the clear zone of the excavated area.
4. Unless otherwise approved by the Engineer, the Contractor's equipment shall follow normal and legal traffic movements. The Contractor's ingress and egress of the work area shall be accomplished with as little disruption to traffic as possible. Traffic control devices shall be removed by picking up the devices in a reverse sequence to that used for installation. This may require moving backwards through the work zone, but is limited to within the lane or shoulder closures. When located behind or at other locations shown on approved traffic control plans, equipment may operate in a direction opposite to adjacent traffic.
5. The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless approved by the Engineer.
6. All travel lanes shall be a minimum of 10' wide.
7. The Contractor shall maintain traffic flow (except during full road closure) and allow access to homes, businesses, and side streets at all times. Contractor shall provide temporary ramping and use flaggers when necessary.
8. The Contractor should coordinate any temporary closures to homes or businesses with the owners.

The construction sequence described below and shown on the plans is a potential sequence available for the Contractor's use. It is a general concept and is provided for information only. Not all construction details have been addressed. The Contractor is in no way obliged to employ the methods or sequences of construction outlined in the phasing plans. Any variation in phasing must be approved before construction begins.

PHASE 1:

1. Prior to intersection and road closure, construct proposed utility relocations and removals (see utility plans), approve the pavement mix designs, and build the embankment South of 37th Avenue.
2. All temporary construction signs and traffic control devices shall be placed according to an approved MHT before beginning construction, including all road closure and detour signage.
3. Close intersection along 37th Street from the West Approach to Project to Sienna Avenue, and through the entire project extents along Arrowhead Drive to 47th Avenue. The intersection may be closed to traffic for a maximum of 60 working days.
4. Provide temporary striping and signage on 37th Street East of Sienna Avenue for local traffic.
5. Construct proposed hydraulic improvements including the waterline and storm sewer.
6. Complete mill and overlay on 37th Street in the West Approach to Project.
7. Construct all curb and gutter and ADA curb ramps.
8. Construct concrete and asphalt pavement lanes and truck apron within the Phase 1 closure extents.
9. The median and sidewalk South of the intersection of 37th Street and 47th Avenue along Arrowhead Drive shall be completed during the closure.
10. A combination of permanent and temporary striping and signage shall be completed to allow for the intersection to be safely navigated.
11. After a maximum of 60 working days and upon completion of hydraulic improvements, pavement, curb and gutter, and curb ramps within the closure, the road shall be open with at least one lane of traffic in all directions.

PHASE 2:

1. Install temporary pavement markings for proposed traffic movements through Phase 1 construction extents and in Eastbound and Westbound directions on East Approach to Project 37th Street.
2. All temporary construction signs and traffic control devices shall be placed according to an approved MHT before beginning construction.
3. Where two-lane two-way traffic is not possible, use flaggers to control one-lane two-way traffic. The road must be accessible to two-way traffic during non-construction hours.
4. Construct pavement taper on 37th Street at East Approach to Project.
5. Construct remaining medians, parkways, and sidewalks using single lane closures.
6. Install permanent signage and striping in any places that were not complete at the end of Phase 1.
7. Upon completion of all construction, remove temporary construction signs and traffic control devices and open the road fully to normal traffic.

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Detailer: K. Schultz		

Project No.
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Drawing Number PH-001
Sheet Number 143

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37TH STREET CONSTRUCTION PHASING

TABULATION OF TEMPORARY TRAFFIC CONTROL SIGNING

SIGN	DESCRIPTION	DIMENSION	PANEL SIZE EACH	
			A	B
W20-1	ROAD WORK AHEAD	36" x 36"	5	
G20-2	END ROAD WORK	36" x 18"	4	
R2-1	SPEED LIMIT (30 MPH)	24" x 30"	5	
R2-6aP	FINES DOUBLE (PLAQUE)	24" x 18"	4	
R2-10	BEGIN FINES DOUBLE IN WORK ZONE	24" x 30"	4	
R2-11	END FINES DOUBLE IN WORK ZONE	24" x 30"	4	
W20-5L	LEFT LANE CLOSED	36" x 36"	1	
W20-5R	RIGHT LANE CLOSED	36" x 36"	1	
W20-7	FLAGGER (SYMBOL)	36" x 36"	5	
W4-2L	LEFT LANE MERGE	36" x 36"	1	
W4-2R	RIGHT LANE MERGE	36" x 36"	1	
G20-10	XYZ CONSTRUCTION THANKS YOU	24" x 30"	4	
R11-3a	ROAD CLOSED LOCAL TRAFFIC ONLY	60" x 30"		3
R11-2	ROAD CLOSED	48" x 30"		4
W20-3	ROAD CLOSED 1000 FT	36" x 36"	4	
W20-2	DETOUR AHEAD	30" x 24"	3	
M4-9L	DETOUR LEFT	30" x 24"	8	
M4-9R	DETOUR RIGHT	30" x 24"	8	
M4-9S	DETOUR STRAIGHT	30" x 24"	4	
M4-8a	END DETOUR	24" x 18"	2	
D3-1	37TH ST	30" x 8"	20	
W6-3	TWO-WAY TRAFFIC	30" x 30"	2	
R4-7	KEEP RIGHT	24" x 30"	2	
TOTALS			92	7

TABULATION OF TRAFFIC CONTROL DEVICES

ITEM	DESCRIPTION	UNIT	QUANTITY
630-00000	FLAGGING	HOURL	800
630-00007	TRAFFIC CONTROL INSPECTION	DAY	36
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	90
630-80335	BARRICADE (TYPE 3M-A) (TEMPORARY)	EACH	3
630-80337	BARRICADE (TYPE 3M-C) (TEMPORARY)	EACH	4
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	92
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	7
630-80350	VERTICAL PANEL	EACH	40
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	11
630-80360	DRUM CHANNELIZING DEVICE	EACH	175
630-80380	TRAFFIC CONE	EACH	200

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 AQC M415-021

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 Sheet Number 144

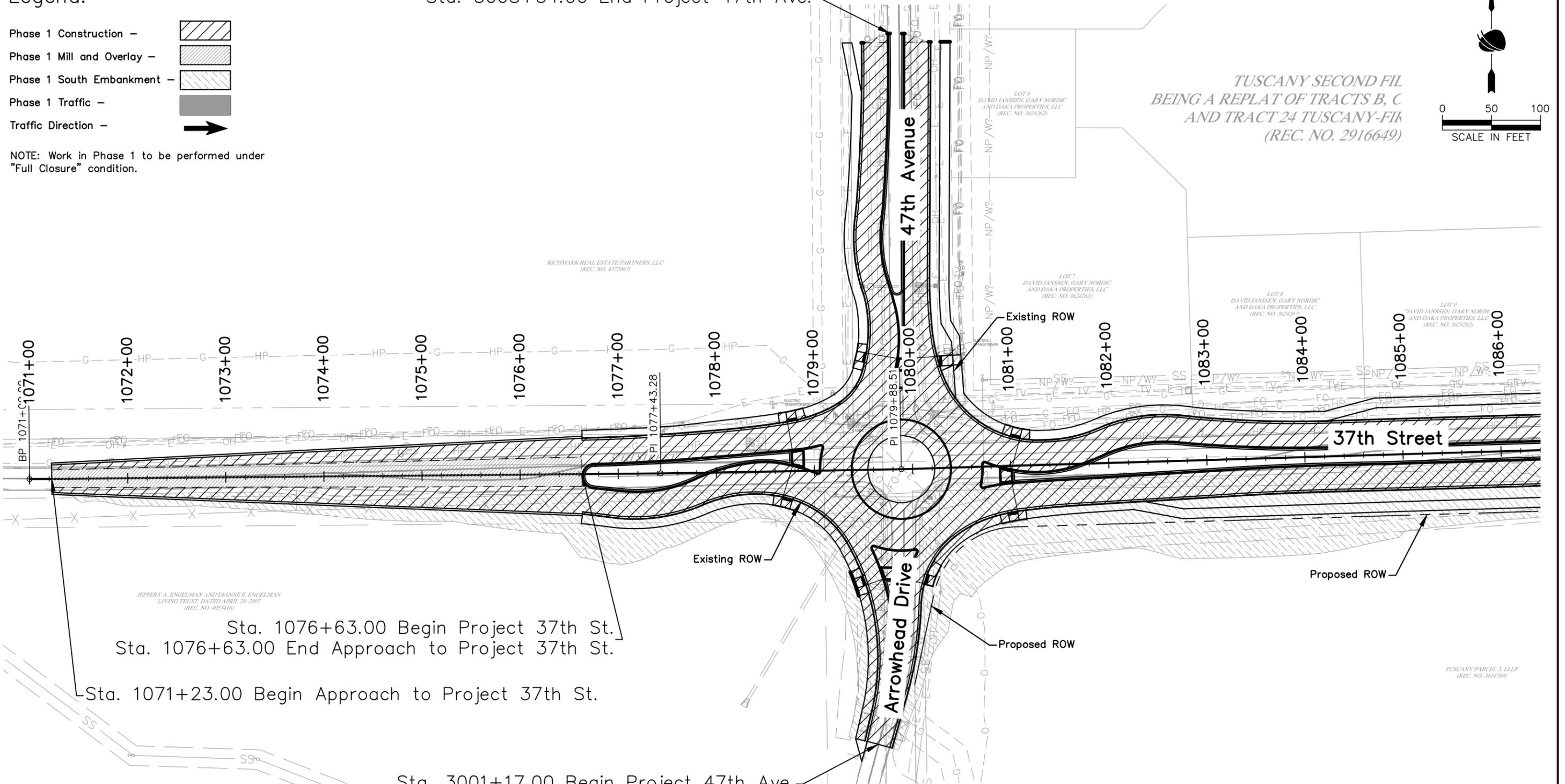
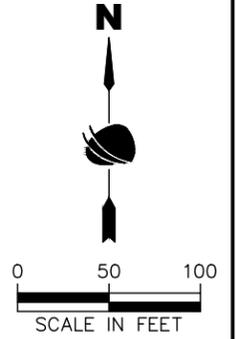
Legend:

- Phase 1 Construction - 
- Phase 1 Mill and Overlay - 
- Phase 1 South Embankment - 
- Phase 1 Traffic - 
- Traffic Direction - 

NOTE: Work in Phase 1 to be performed under "Full Closure" condition.

Sta. 3008+34.00 End Project 47th Ave.

TUSCANY SECOND FIL
BEING A REPLAT OF TRACTS B, C
AND TRACT 24 TUSCANY-FIL
(REC. NO. 2916649)



Sta. 1076+63.00 Begin Project 37th St.
Sta. 1076+63.00 End Approach to Project 37th St.

Sta. 1071+23.00 Begin Approach to Project 37th St.

Sta. 3001+17.00 Begin Project 47th Ave.

ADVERTISEMENT SET 12/1/2022



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Date	Comments	Initials



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Revised:
Void:

37TH STREET WIDENING PHASE 1 CONSTRUCTION PHASING PLAN PHASE 1		
Designer:	T. Tuttle	Structure Numbers
Detailer:	K. Schultz	
Sheet Subset:	PHASING	Subset Sheets: 3 of 6

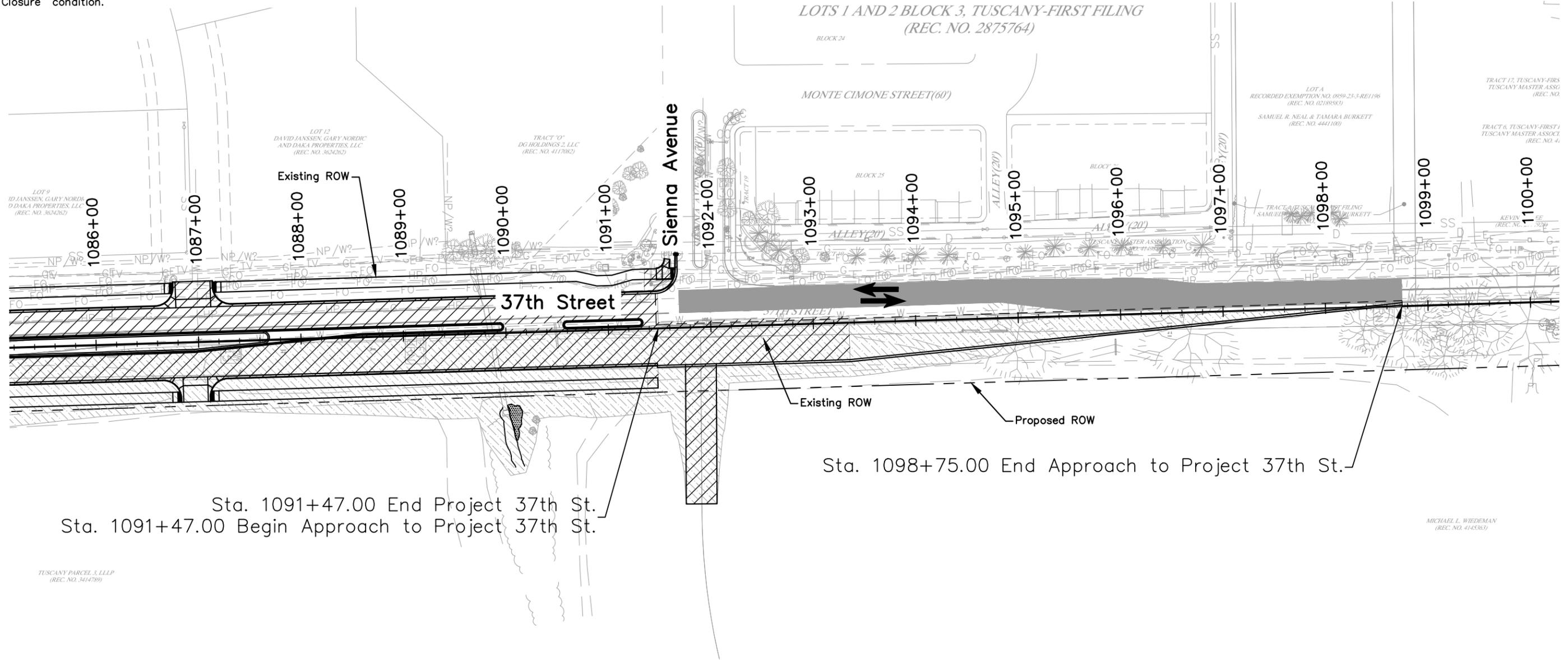
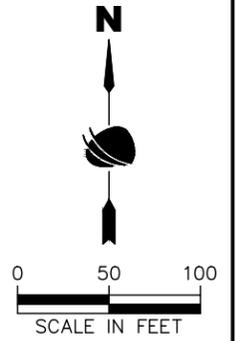
Project No.
AQC M415-021
Drawing Number PH-003
Sheet Number 145

Plot Date: 11/21/2022 9:23 AM Plotted By: Sarah Hemler
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Legend:

- Phase 1 Construction -
- Phase 1 South Embankment -
- Phase 1 Traffic -
- Traffic Direction -

NOTE: Work in Phase 1 to be performed under "Full Closure" condition.



Plot Date: 11/21/2022 9:24 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022



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Date	Comments	Initials



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No Revisions:
Revised:
Void:

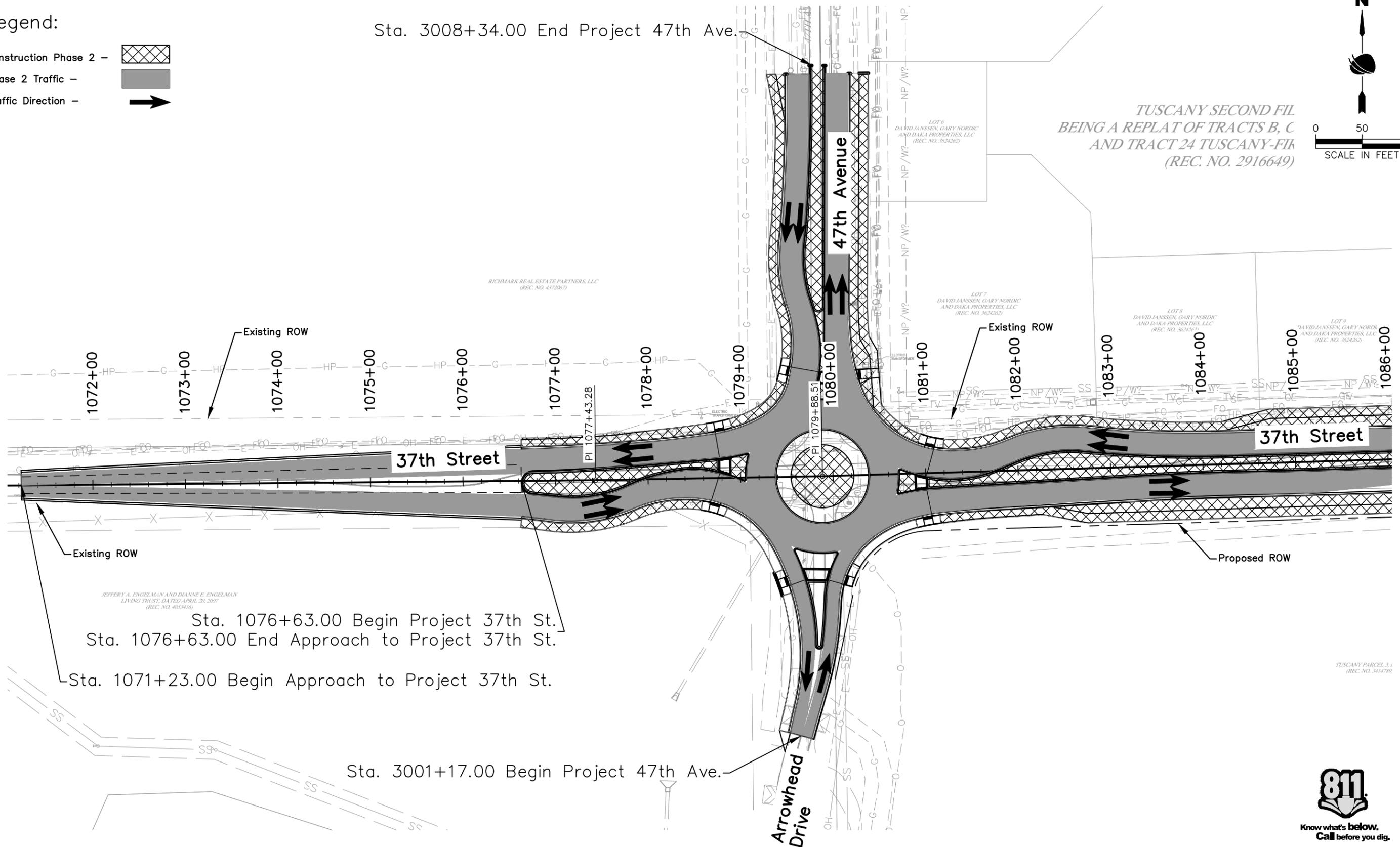
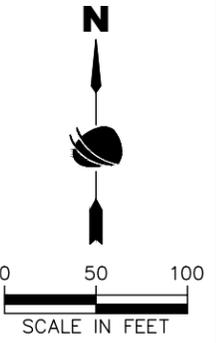
37TH STREET WIDENING PHASE 1 CONSTRUCTION PHASING PLAN PHASE 1		
Designer:	T. Tuttle	Structure Numbers
Detailer:	K. Schultz	
Sheet Subset:	PHASING	Subset Sheets: 4 of 6

Project No.
AQC M415-021
Drawing Number PH-004
Sheet Number 146

Legend:

- Construction Phase 2 - 
- Phase 2 Traffic - 
- Traffic Direction - 

Sta. 3008+34.00 End Project 47th Ave.



Sta. 1076+63.00 Begin Project 37th St.
 Sta. 1076+63.00 End Approach to Project 37th St.
 Sta. 1071+23.00 Begin Approach to Project 37th St.

Sta. 3001+17.00 Begin Project 47th Ave.

TUSCANY SECOND FIL
 BEING A REPLAT OF TRACTS B, C
 AND TRACT 24 TUSCANY-FIL
 (REC. NO. 2916649)



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Print Date: 11/21/2022	
File Name: PH P1-002 CONSTRUCTION PHASING.DWG	
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Date	Comments	Initials



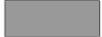
As Constructed
No Revisions:
Revised:
Void:

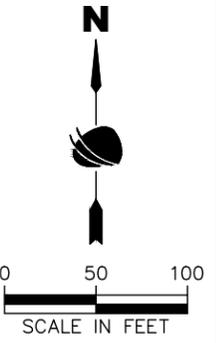
37TH STREET WIDENING PHASE 1 CONSTRUCTION PHASING PLAN PHASE 2		
Designer:	T. Tuttle	Structure Numbers
Detailer:	K. Schultz	
Sheet Subset:	PHASING	Subset Sheets: 5 of 6

Project No.
AQC M415-021
Drawing Number PH-005
Sheet Number 147

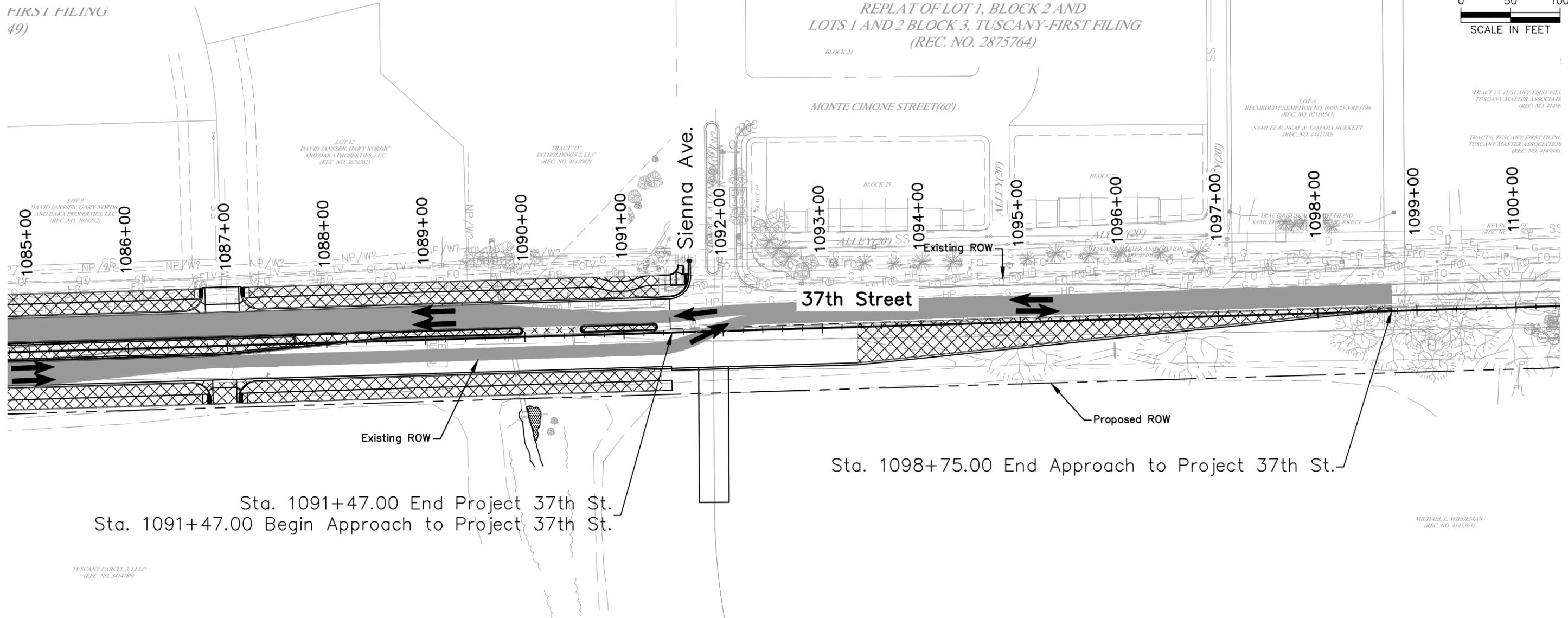
ADVERTISEMENT SET 12/1/2022

Legend:

- Construction Phase 2 - 
- Phase 2 Traffic - 
- Traffic Direction - 



FIRST FILING
49)



Sta. 1091+47.00 End Project 37th St.
Sta. 1091+47.00 Begin Approach to Project 37th St.

Sta. 1098+75.00 End Approach to Project 37th St.

MICHAEL L. WIEDEMAN
(REC. NO. 4145363)



Know what's below.
Call before you dig.

Print Date: 11/21/2022	
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Date	Comments	Initials



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Void:

37TH STREET WIDENING PHASE 1 CONSTRUCTION PHASING PLAN PHASE 2		
Designer:	T. Tuttle	Structure Numbers
Detailer:	K. Schultz	
Sheet Subset:	PHASING	Subset Sheets: 6 of 6

Project No.
AQC M415-021
Drawing Number PH-006
Sheet Number 148

Plot Date: 11/21/2022 9:24 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

TABULATION OF SIGNS

SIGN NO.	SIGN CODE	LEGEND	COLOR	EXISTING LOCATION	EXISTING POSITION	TRAVEL DIRECTION	PANEL SIZE	PROPOSED LOCATION	PROPOSED POSITION	STEEL SIGN POST (1.75x1.75 INCH TUBING)	SIGN PANEL CLASS I	BARRICADE			REMOVALS	RESETS	REMARKS
												INCHES	(TYPE 3M-A)	(TYPE 3M-B)	(TYPE 3M-C)	GROUND SIGN	
							LF						SF	EACH	EACH	EACH	
1a	W2-6	Traffic Circle Ahead	Yellow			East	30" x 30"	1074+65	35' Rt.	12.0	6.25						
1b	W13-1P	Speed Limit 25mph	Yellow			East	18" x 18"	1074+65	35' Rt.		2.25						
2	R9-9	Sidewalk Closed	White			West	24" x 12"	1076+65	42' Lt.		2.00	1					Mount On Barricade
3	R9-9	Sidewalk Closed	White			West	24" x 12"	1076+64	46' Rt.		2.00	1					Mount On Barricade
4	R2-1	Speed Limit 35mph	White			West	30" x 36"	1076+70	53' Lt.	12.0	7.50						
5	R4-7	Keep Right	White			East	24" x 30"	1076+72	3' Rt.	12.0	5.00						
6	R3-8	Traffic Circle Directional	White			East	36" x 30"	1077+09	62' Rt.	12.0	7.50						
7	W4-2	Lane Ends	Yellow			West	36" x 36"	1077+80	55' Lt.	12.5	9.00						
8	W11-2	Pedestrian Crossing	Yellow			East	36" x 36"	1078+54	40' Rt.	12.5	9.00						
9	W11-2	Pedestrian Crossing	Yellow			West	36" x 36"	1078+89	69' Lt.	12.5	9.00						
10	R1-2	Yield	Red			East	36" x 36"	1079+02	4' Lt.	12.5	9.00						
11	D3-1	37th St	Green			South	36" x 12"	1079+03	21' Lt.	9.0	3.00						
12	R1-2	Yield	Red			East	36" x 36"	1079+11	69' Rt.	12.5	9.00						
13	R1-2	Yield	Red			South	36" x 36"	1079+26	86' Lt.	12.5	9.00						
14	W11-2	Pedestrian Crossing	Yellow			South	36" x 36"	1079+29	105' Rt.	12.5	9.00						
15	W11-2	Pedestrian Crossing	Yellow			South	36" x 36"	1079+41	131' Lt.	12.5	9.00						
16	D3-1	Arrowhead Dr	Green			East	48" x 12"	1079+64	23' Rt.	9.0	4.00						
17	Special	Not A Thru Road	Yellow	1079+72	50' Right	South	30" x 30"									1	
18a	R6-1R	One Way	White			East	54" x 18"	1079+67	20' Rt.	13.0	6.75						
18b	R6-4a	Traffic Circle Directional(3)	White			East	48" x 24"	1079+67	20' Rt.		8.00						
19a	R6-1R	One Way	White			South	54" x 18"	1079+67	21' Lt.	13.0	6.75						
19b	R6-4a	Traffic Circle Directional(3)	White			South	48" x 24"	1079+67	21' Lt.		8.00						
20	R1-2	Yield	Red			South	36" x 36"	1079+85	85' Lt.	12.5	9.00						
21	D3-1	47th Ave	Green			West	36" x 12"	1079+98	86' Lt.	9.0	3.00						
22a	R6-1R	One Way	White			West	54" x 18"	1080+10	21' Lt.	13.0	6.75						
22b	R6-4a	Traffic Circle Directional(3)	White			West	48" x 24"	1080+10	21' Lt.		8.00						
23a	R6-1R	One Way	White			North	54" x 18"	1080+11	20' Rt.	13.0	6.75						
23b	R6-4a	Traffic Circle Directional(3)	White			North	48" x 24"	1080+11	20' Rt.		8.00						
24a	D3-1	37th St	Green	1080+11	40' Right	South	54" x 12"							1			
24b	D3-1	Arrowhead Dr	Green	1080+11	40' Right	South	54" x 12"										Included in removal of 24a
25	R1-2	Yield	Red			North	36" x 36"	1080+45	85' Rt.	12.5	9.00						
26	W11-2	Pedestrian Crossing	Yellow			North	36" x 36"	1080+53	92' Lt.	12.5	9.00						
27	R1-2	Yield	Red			West	36" x 36"	1080+75	1' Rt.	12.5	9.00						
28	D3-1	37th St	Green			North	36" x 12"	1080+75	17' Rt.	9.0	3.00						
29	R1-2	Yield	Red			West	36" x 36"	1080+78	60' Lt.	12.5	9.00						
30	W11-2	Pedestrian Crossing	Yellow			East	36" x 36"	1080+93	65' Rt.	12.5	9.00						
SUBTOTAL										311.0	230.5	2	0	0	1	1	

Plot Date: 11/21/2022 9:25 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\33000\LEWIS 37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\PI\802-SHEET FILES\ROUNDABOUT\TRAFTAB P1-001 TRAFFIC TABULATION.DWG

ADVERTISEMENT SET 12/1/2022

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Sheet Revisions		
Date	Comments	Initials





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 Revised:
 Void:

37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKING TABULATION
 Designer: T. Tuttle
 Detailer: C. Petersen
 Sheet Subset: TRAF TAB

Project No.
 AQC M415-021
 Drawing Number TTAB-001
 Sheet Number 150

TABULATION OF SIGNS

SIGN NO.	SIGN CODE	LEGEND	COLOR	EXISTING LOCATION	EXISTING POSITION	TRAVEL DIRECTION	PANEL SIZE	PROPOSED LOCATION	PROPOSED POSITION	STEEL SIGN POST (1.75x1.75 INCH TUBING)	SIGN PANEL CLASS I	BARRICADE			REMOVALS	RESETS	REMARKS
												INCHES	(TYPE 3M-A)	(TYPE 3M-B)	(TYPE 3M-C)	GROUND SIGN	
							LF						SF	EACH	EACH	EACH	
31	R3-7L	Left Lane Must Turn Left	White	1080+93	30' Left	West	30" x 30"										
32	W11-2	Pedestrian Crossing	Yellow			West	36" x 36"	1081+25	42' Lt.	12.5	9.00						
33	R3-8	Traffic Circle Directional	White			West	36" x 30"	1082+40	63' Lt.	12.0	7.50						
34	R2-1	Speed Limit 35mph	White			East	30" x 36"	1082+29	42' Rt.	12.0	7.50						
35a	W2-1	4 Way Intersection Ahead	Yellow	1082+97	31' Left	West	30" x 30"								1		
35b	D3-1	Arrowhead Dr	Yellow	1082+97	31' Left	West	54" x 12"										Included in removal of 35a
35c	D3-1	47th Ave	Yellow	1082+97	31' Left	West	54" x 12"										Included in removal of 35a
36	R12-5	Weight Limit	White	1084+10	31' Left	West	24" x 36"									1	
37a	W2-6	Traffic Circle Ahead	Yellow			West	30" x 30"	1085+43	42' Lt.	12.0	6.25						
37b	W13-1P	Speed Limit 35mph	Yellow			West	18" x 18"	1085+43	42' Lt.		2.25						
38	R3-7L	Left Lane Must Turn Left	White	1086+16	29' Left	West	36" x 36"								1		
39	R2-1	Speed Limit 45mph	White	1087+31	13' Right	East	30" x 36"								1		
40	W4-2	Lane Ends	Yellow			East	36" x 36"	1087+76	42' Rt.	12.5	9.00						
41a	W2-2	3 Way Intersection Ahead	Yellow	1089+11	11' Right	East	30" x 30"								1		
41b	D3-1	Sienna Ave	Yellow	1089+11	11' Right	East	54" x 12"										Included in removal of 41a
42	W3-3	Traffic Signal Ahead	Yellow	1090+29	29' Left	West	36" x 36"								1		
43	R2-1	Speed Limit 35mph	White			West	30" x 36"	1090+50	42' Lt.	12.0	7.50						
44	R4-7	Keep Right	White			West	24" x 30"	1091+18	6' Left	12.0	5.00						
45	R9-9	Sidewalk Closed	White			East	24" x 12"	1091+45	53' Rt.		2.00	1					Mount On Barricade
46a	R1-1	Stop	Red	1091+64	72' Left	South	36" x 36"	1091+64	61' Lt.	13.0	9.00						
46b	D3-1	Sienna Ave	Yellow	1091+64	72' Left	East	36" x 12"	1091+64	61' Lt.		3.00						
46c	D3-1	37th St	Green	1091+64	72' Left	South	36" x 12"	1091+64	61' Lt.		3.00						
47	R2-1	Speed Limit 35mph	White			East	30" x 36"	1093+78	39' Rt.	12.0	7.50						
48	R3-7R	Right Lane Must Turn Right	White	1096+07	49' Left	East											
49a	W2-2	3 Way Intersection Ahead	Yellow	1098+57	1' Right	East	30" x 30"									1	
49b	D3-1	Palermo Ave	Green	1098+57	1' Right	East	30" x 12"										
50a	W2-6	Traffic Circle Ahead	Yellow			North	30" x 30"	3001+27	23' Rt.	12.0	6.25						
50b	W13-1P	Speed Limit 25mph	Yellow			North	18" x 18"	3001+27	23' Rt.		2.25						
51	R2-1	Speed Limit 35mph	White			South	30" x 36"	3001+93	37' Lt.	12.0	7.50						
52	R4-7	Keep Right	White			North	24" x 30"	3002+19	2' Lt.	12.0	5.00						
53	W11-2	Pedestrian Crossing	Yellow			North	36" x 36"	3002+72	36' Rt.	12.5	9.00						
54	R3-8	Traffic Circle Directional	White			South	36" x 30"	3006+68	59' Lt.	12.0	7.50						
55	R2-1	Speed Limit 35mph	White	3005+78	22' Right	North	30" x 36"	3006+70	37' Rt.	12.0	7.50				1		
56a	W2-6	Traffic Circle Ahead	Yellow			South	30" x 30"	3008+31	40' Lt.	12.0	6.25						
56b	W13-1P	Speed Limit 25mph	Yellow			South	18" x 18"	3008+31	40' Lt.		2.25						
		Type 3M-B Barriacde	White					1086+96	45' Rt.				1				
		Type 3M-C Barriacde	White					1086+96	45' Lt.					1			
SUBTOTAL										194.5	132.0	1	1	1	7	2	
SUBTOTAL FROM PREVIOUS SHEET										311.0	230.5	2	0	0	1	1	
TOTAL										505.5	362.5	3	1	1	8	3	

Plot Date: 11/21/2022 9:25 AM Plotted By: Sarah Hemler
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 File Name: TRAF TAB P1-001 TRAFFIC TABULATION.DWG
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**37TH STREET WIDENING PHASE 1
 SIGNING AND PAVEMENT MARKING
 TABULATION**

Designer: T. Tuttle
 Detailer: C. Petersen
 Sheet Subset: TRAF TAB

Project No.
 AQC M415-021
 Drawing Number TTAB-002
 Sheet Number 151

ADVERTISEMENT SET 12/1/2022

TABULATION OF PAVEMENT MARKINGS

STATION	SIDE	CENTER	LANE	EDGE	CHANNELIZING		PVMT MARKING (ARROW)	PVMT MARKING (X WALK)	REMARKS
		YELLOW SOLID 4 INCH	WHITE BROKEN 4 INCH	WHITE SOLID 4 INCH	WHITE LANE DROP 8 INCH	WHITE DOTTED 8 INCH			
		LF	LF	LF	LF	LF			
1071+23 - 1076+76	LT	553							
1071+23 - 1076+74	RT	551							
1071+23 - 1076+63	LT			541					
1071+23 - 1076+63	RT			541					
1076+64 - 1078+12	LT		148						
1076+63 - 1078+12	RT		153						
1076+90	LT						58		
1077+40	LT						58		
1078+12 - 1079+07	LT				96				
1078+12 - 1079+00	RT				90				
1078+20	RT						55		Includes two symbols
1078+80	RT							96	
1078+80	LT							96	
1079+07 - 1079+11	LT & RT				35				
1079+07 - 1079+66	LT					63			
1079+07 - 1079+29	RT					63			
1079+15	LT & RT						12.1		
1079+25 - 1079+32	LT & RT				55				
1079+23 - 1079+77	LT					57			
1079+25 - 1079+48	RT					45			
1079+31	LT & RT						16.1		
1079+48 - 1080+16	RT				70				
1079+53 - 1080+07	RT				57				
1079+66 - 1080+16	LT				50				
1079+77 - 1080+05	LT				28				
1079+88	RT						39.6		Includes two symbols
1079+88	LT						39.6		Includes two symbols
1080+07 - 1080+48	RT					45			
1080+16 - 1080+71	RT					60			
1080+19 - 1080+53	LT					74			
1080+47	LT & RT						27.5		
1080+48 - 1080+53	LT & RT				47				
1080+52 - 1080+70	LT					57			
1080+62	LT & RT						12.1		
1080+67 - 1080+70	LT & RT				31				
1080+67 - 1081+60	LT				102				
1080+71 - 1081+75	RT				104				
1081+00	LT							96	
1081+00	RT							96	
SUBTOTAL		1,104	301	1,082	765	465	318	384	

Note:
All cross walk and arrows shall be pre-formed thermoplastic.
Stationing is approximate, locations are to be field verified by contractor prior to final placement.

Plot Date: 11/21/2022 9:25 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022
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**37TH STREET WIDENING PHASE 1
SIGNING AND PAVEMENT MARKING
TABULATION**

Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAF TAB	Subset Sheets: 3 of 4

Project No.
AQC M415-021
Drawing Number TTAB-003
Sheet Number 152

ADVERTISEMENT SET 12/1/2022

TABULATION OF PAVEMENT MARKINGS

STATION	SIDE	CENTER	LANE	EDGE	CHANNELIZING		PVMT MARKING (ARROW)	PVMT MARKING (X WALK)	REMARKS
		YELLOW SOLID 4 INCH	WHITE BROKEN 4 INCH	WHITE SOLID 4 INCH	WHITE LANE DROP 8 INCH	WHITE DOTTED 8 INCH			
		LF	LF	LF	LF	LF			
1071+23 - 1076+76	LT	553							
1071+23 - 1076+74	RT	551							
1071+23 - 1076+63	LT			541					
1071+23 - 1076+63	RT			541					
1076+64 - 1078+12	LT		148						
1076+63 - 1078+12	RT		153						
1076+90	LT						58		
1077+40	LT						58		
1078+12 - 1079+07	LT				96				
1078+12 - 1079+00	RT				90				
1078+20	RT						55		Includes two symbols
1078+80	RT							96	
1078+80	LT							96	
1079+07 - 1079+11	LT & RT				35				
1079+07 - 1079+66	LT					63			
1079+07 - 1079+29	RT					63			
1079+15	LT & RT						12.1		
1079+25 - 1079+32	LT & RT				55				
1079+23 - 1079+77	LT					57			
1079+25 - 1079+48	RT					45			
1079+31	LT & RT						16.1		
1079+48 - 1080+16	RT				70				
1079+53 - 1080+07	RT				57				
1079+66 - 1080+16	LT				50				
1079+77 - 1080+05	LT				28				
1079+88	RT						39.6		Includes two symbols
1079+88	LT						39.6		Includes two symbols
1080+07 - 1080+48	RT					45			
1080+16 - 1080+71	RT					60			
1080+19 - 1080+53	LT					74			
1080+47	LT & RT						27.5		
1080+48 - 1080+53	LT & RT				47				
1080+52 - 1080+70	LT					57			
1080+62	LT & RT						12.1		
1080+67 - 1080+70	LT & RT				31				
1080+67 - 1081+60	LT				102				
1080+71 - 1081+75	RT				104				
1081+00	LT							96	
1081+00	RT							96	
SUBTOTAL		1,104	301	1,082	765	465	318	384	

Note:
All cross walk and arrows shall be pre-formed thermoplastic.
Stationing is approximate, locations are to be field verified by contractor prior to final placement.

Plot Date: 11/21/2022 9:25 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\33000_LEWIS 37TH ST AND 47TH AVE PLAN\10_COMPUTER DESIGN FILES\PI\001_SHEET FILES\ROUNDABOUT\TRAFTAB P1-001 TRAFFIC TABULATION.DWG

Print Date: 11/21/2022
 File Name: TRAF TAB P1-001 TRAFFIC TABULATION.DWG
 Horiz. Scale: N/A Vert. Scale: N/A



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Sheet Revisions		
Date	Comments	Initials





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Void:

**37TH STREET WIDENING PHASE 1
SIGNING AND PAVEMENT MARKING
TABULATION**

Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAF TAB	Subset Sheets: 3 of 4

Project No.
AQC M415-021
Drawing Number TTAB-003
Sheet Number 153

ADVERTISEMENT SET 12/1/2022

Plot Date: 11/21/2022 10:15 AM Plotted By: Sarah Hemler
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TABULATION OF PAVEMENT MARKINGS

STATION	SIDE	CENTER	LANE	EDGE	CHANNELIZING		PVMT MARKING (ARROW)	PVMT MARKING (X WALK)	REMARKS					
		YELLOW SOLID 4 INCH	WHITE BROKEN 4 INCH	WHITE SOLID 4 INCH	WHITE LANE DROP 8 INCH	WHITE DOTTED 8 INCH								
		LF	LF	LF	LF	LF								
1081+50							55		Includes two symbols					
1081+60	-	1091+36												
1081+75	-	1091+40												
1088+54	-	1091+30				276								
1088+60							16.1							
1089+04							58							
1089+94	-	1090+60												
1089+95	-	1090+61												
1090+76							16.1							
1091+47	-	1098+75				730								
1092+42	-	1098+75	LT & RT			1,275								
1093+23							58							
3001+17	-	3002+15	LT			100			Arrowhead Drive					
3001+17	-	3002+15	RT			101			Arrowhead Drive					
3002+92								48	Arrowhead Drive					
3002+92								48	Arrowhead Drive					
3004+78	-	3005+53	LT						47th Avenue					
3004+86	-	3005+53	RT						47th Avenue					
3005+53	-	3008+34	RT			281			47th Avenue					
3005+53	-	3008+34	LT			283			47th Avenue					
3005+07								96	47th Avenue					
3005+07								96	47th Avenue					
3005+45								43.6	47th Avenue					
SUBTOTAL							1,608	2,499	730	421	0	247	288	
SUBTOTAL FROM PREVIOUS SHEET							1,104	301	1,082	765	465	318	384	
TOTAL							2,712	2,800	1,812	1,186	465	565	672	

SUMMARY OF PAVEMENT MARKING QUANTITIES				
COLOR	MODIFIED EPOXY PAVEMENT MARKING		PREFORMED THERMO PAVEMENT MARKING	
	MIN GAL	MAX GAL	X-WALK	WORD SYMBOL
			SF	SF
YELLOW	20	21		
WHITE	29	31	672	565
TOTALS	49	52	672	565

Note:
 All cross walks and arrows shall be pre-formed thermoplastic.
 Stationing is approximate, locations are to be field verified by contractor prior to final placement.

Print Date: 11/21/2022
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37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKING TABULATION

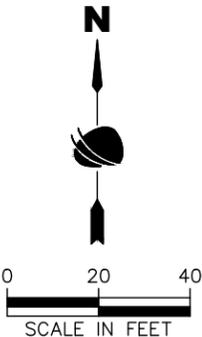
Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAF TAB	Subset Sheets: 4 of 4

Project No.
AQC M415-021
Drawing Number TTAB-005
Sheet Number 154

ADVERTISEMENT SET 12/1/2022

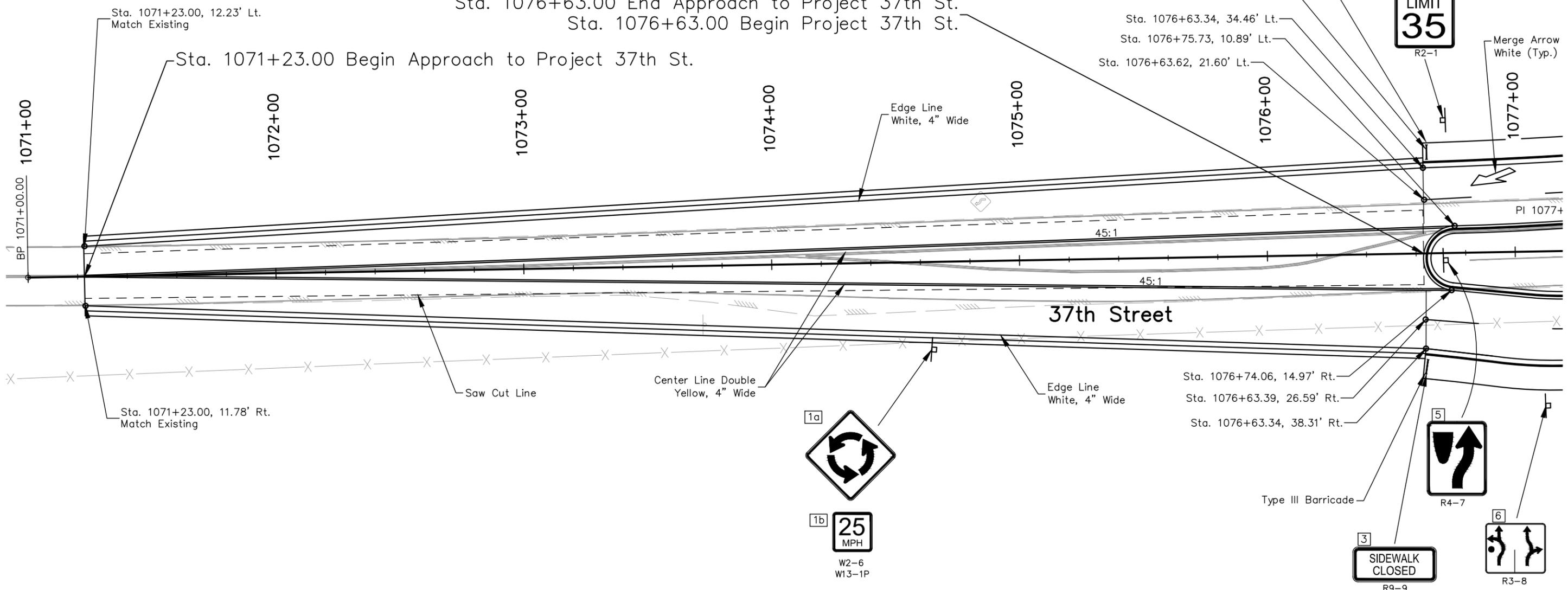
LEGEND

- SIGN NO. 1
- REMOVE
- REMOVE & REPLACE



Sta. 1076+63.00 End Approach to Project 37th St.
 Sta. 1076+63.00 Begin Project 37th St.

Sta. 1071+23.00 Begin Approach to Project 37th St.



Plot Date: 11/21/2022 9:26 AM Plotted By: Sarah Hemler
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Print Date: 11/21/2022	
File Name: TRAF P1-001 TRAFFIC SIGNING AND STRIPING.DWG	
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Date	Comments	Initials



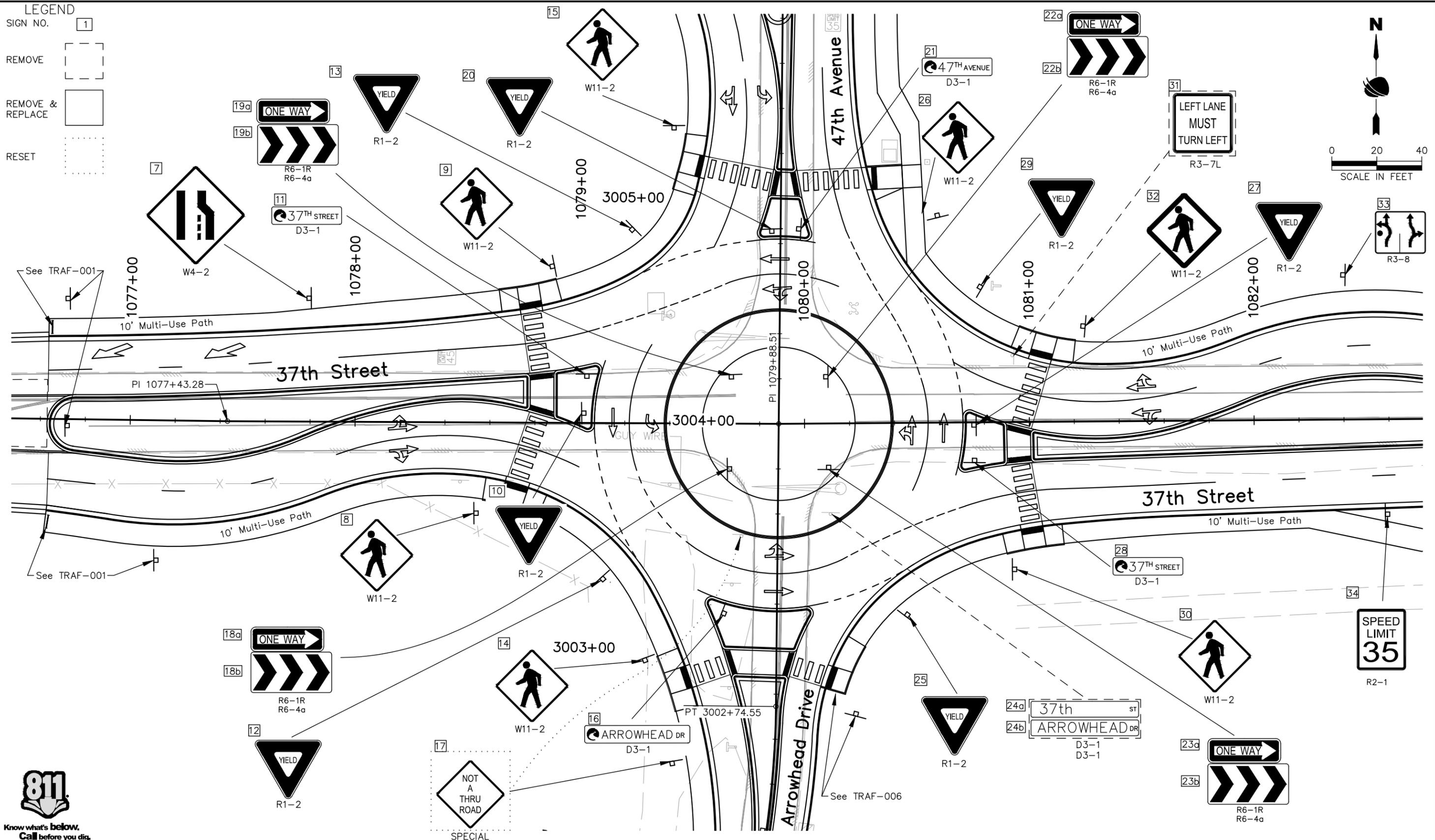
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKINGS PLAN	
Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAFFIC	Subset Sheets: 1 of 8

Project No.
AQC M415-021
Drawing Number TRAF-001
Sheet Number 155

LEGEND

- SIGN NO. 1
- REMOVE
- REMOVE & REPLACE
- RESET



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Sheet Revisions		
Date	Comments	Initials

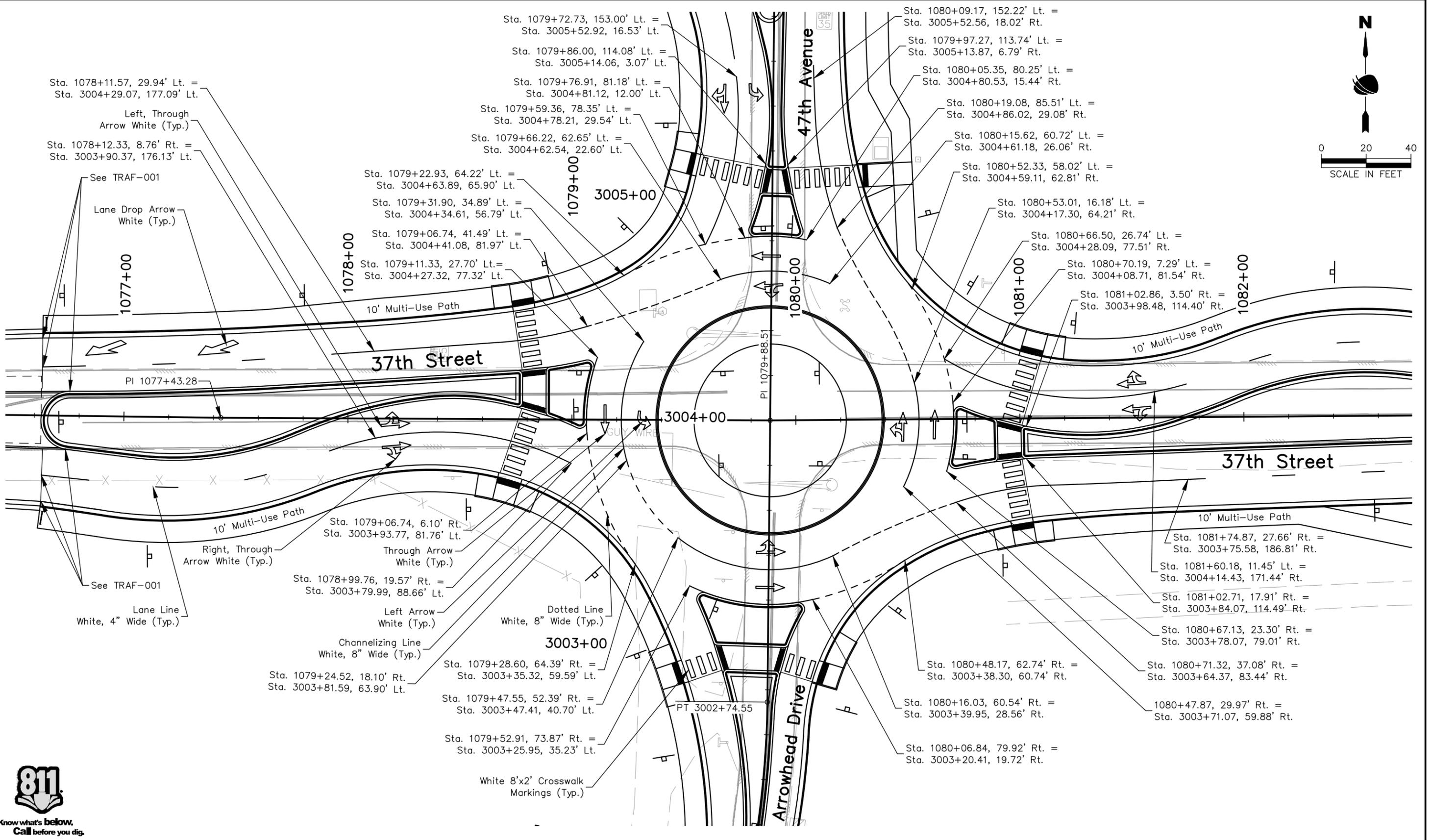
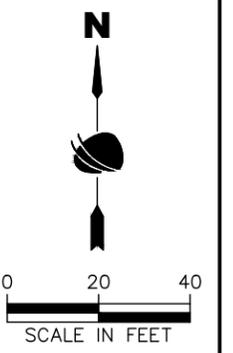


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Revised:
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37TH STREET WIDENING PHASE 1 SIGNING PLAN	
Designer: T. Tuttle	Structure Numbers:
Detailer: C. Petersen	
Sheet Subset: TRAFFIC	Subset Sheets: 2 of 8

Project No.
AQC M415-021
Drawing Number TRAF-002
Sheet Number 156

ADVERTISEMENT SET 12/1/2022



Plot Date: 11/21/2022 9:26 AM Plotted By: Sarah Hemler
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ADVERTISEMENT SET 12/1/2022

Print Date: 11/21/2022	
File Name: TRAF P1-001 TRAFFIC SIGNING AND STRIPING.DWG	
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Date	Comments	Initials



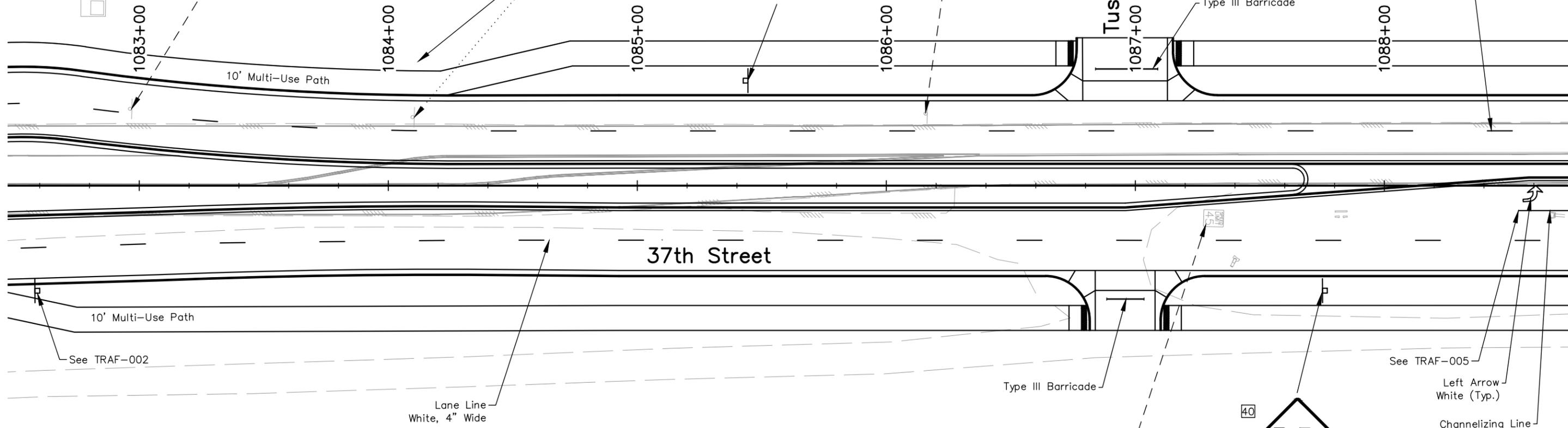
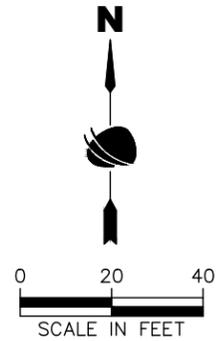
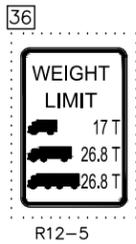
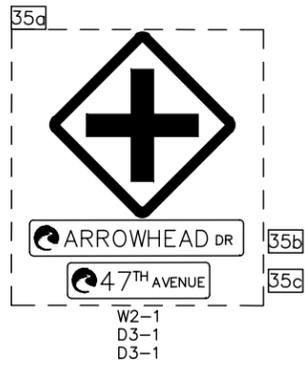
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 PAVEMENT MARKINGS PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	C. Petersen	
Sheet Subset:	TRAFFIC	Subset Sheets: 3 of 8

Project No.
AQC M415-021
Drawing Number TRAF-003
Sheet Number 157

LEGEND

- SIGN NO. 1
- REMOVE
- REMOVE & REPLACE
- RESET



Plot Date: 11/21/2022 9:26 AM Plotted By: Sarah Hemler
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File Name: TRAF P1-001 TRAFFIC SIGNING AND STRIPING.DWG

Horiz. Scale: As Noted Vert. Scale: N/A



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37TH STREET WIDENING PHASE 1
SIGNING AND PAVEMENT MARKINGS
PLAN

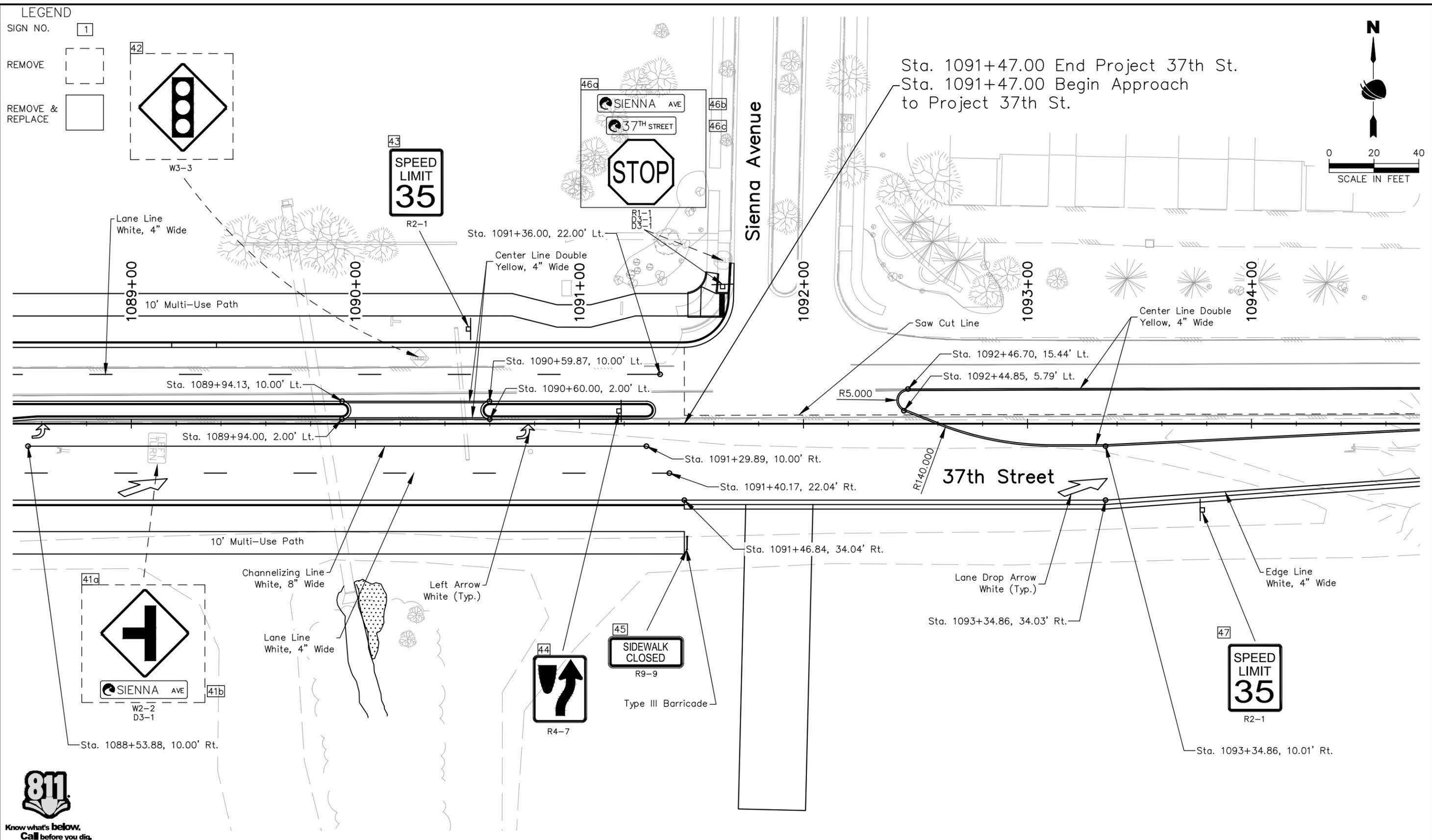
Designer: T. Tuttle
Detailer: C. Petersen
Sheet Subset: TRAFFIC

Structure Numbers
Subset Sheets: 4 of 8

Project No.

AQC M415-021
Drawing Number TRAF-004
Sheet Number 158

ADVERTISEMENT SET 12/1/2022



LEGEND

SIGN NO. 1

REMOVE 42

REMOVE & REPLACE 41

N

0 20 40
SCALE IN FEET

Print Date: 11/21/2022

File Name: TRAF P1-001 TRAFFIC SIGNING AND STRIPING.DWG

Horiz. Scale: As Noted Vert. Scale: N/A

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Date	Comments	Initials

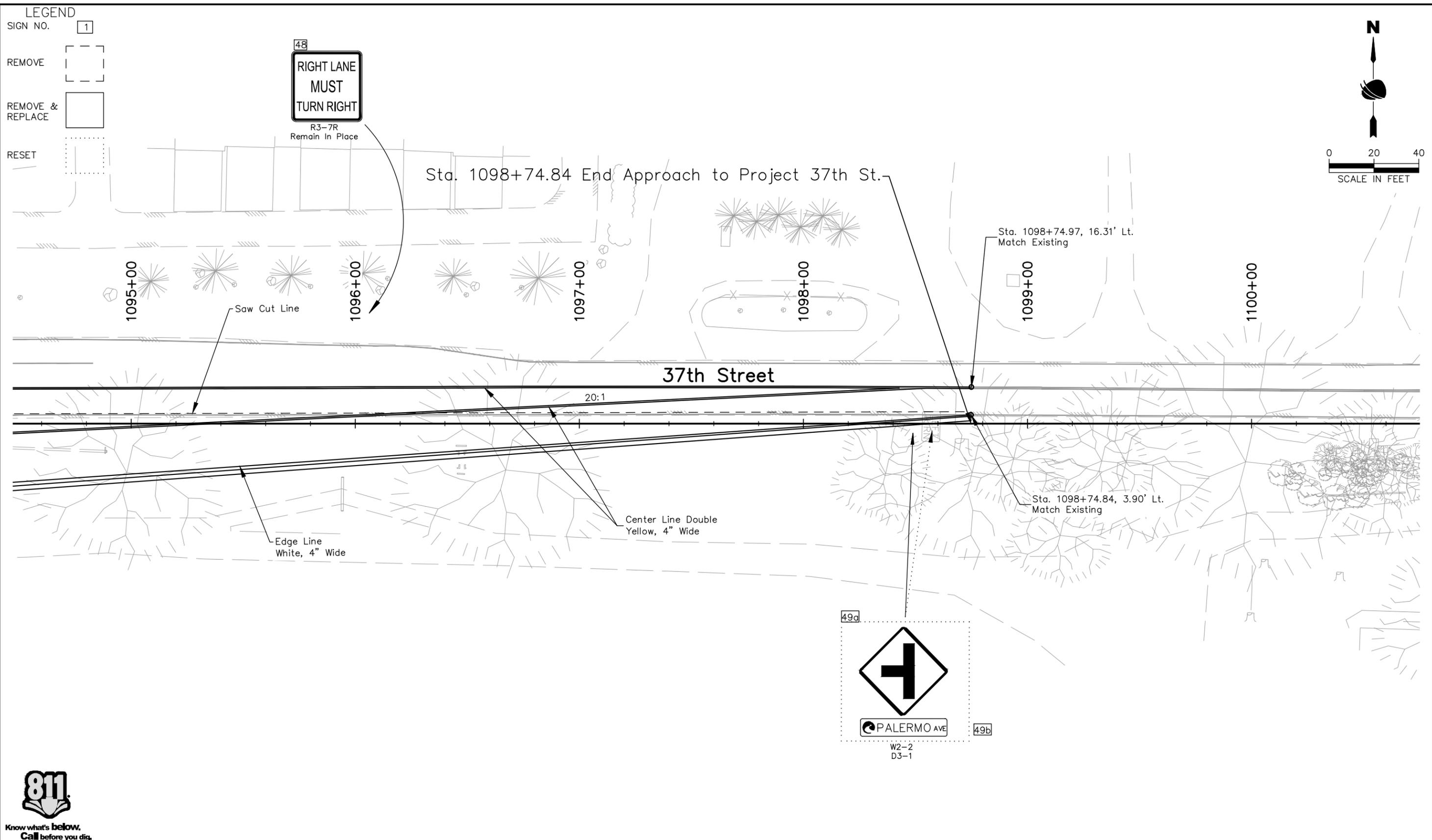
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKINGS PLAN	
Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAFFIC	Subset Sheets: 5 of 8

Project No.
AQC M415-021
Drawing Number TRAF-005
Sheet Number 159

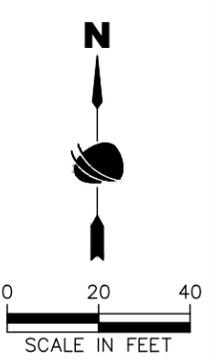
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LEGEND

SIGN NO.	1
REMOVE	[Dashed Box]
REMOVE & REPLACE	[Solid Box]
RESET	[Dotted Box]



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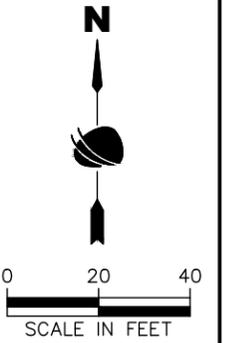
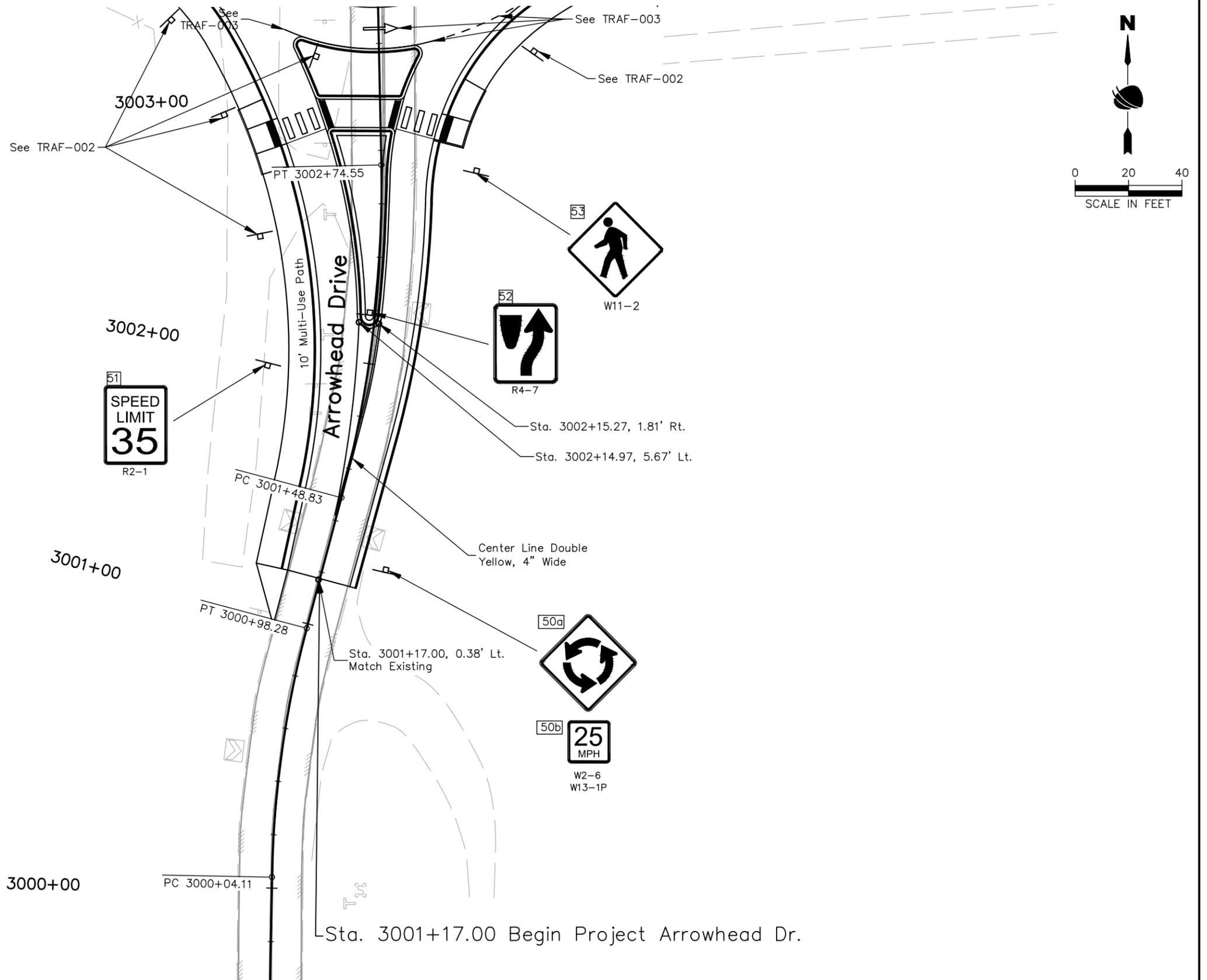
37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKINGS PLAN	
Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAFFIC	Subset Sheets: 6 of 8

Project No.
AQC M415-021
Drawing Number TRAF-006
Sheet Number 160

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LEGEND

- SIGN NO. 1
- REMOVE
- REMOVE & REPLACE



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Print Date: 11/21/2022	
File Name: TRAF P1-001 TRAFFIC SIGNING AND STRIPING.DWG	
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Date	Comments	Initials



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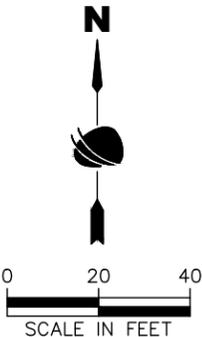
37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKINGS PLAN	
Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAFFIC	Subset Sheets: 7 of 8

Project No.
AQC M415-021
Drawing Number TRAF-007
Sheet Number 161

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LEGEND

- SIGN NO. 1
- REMOVE
- REMOVE & REPLACE



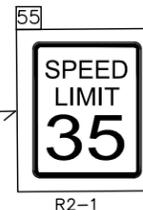
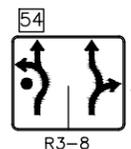
3008+00
Sta. 3008+34.05, 20.98' Lt.
Match Existing

Sta. 3008+34.00 End Project 47th Ave.

Sta. 3008+34.00, 21.01' Rt.
Match Existing

3007+00

47th Avenue



Lane Line
White, 4" Wide

3006+00

See TRAF-003

See TRAF-002

10' Multi-Use Path

10' Multi-Use Path

Lane Line
White, 4" Wide



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Sheet Revisions		
Date	Comments	Initials

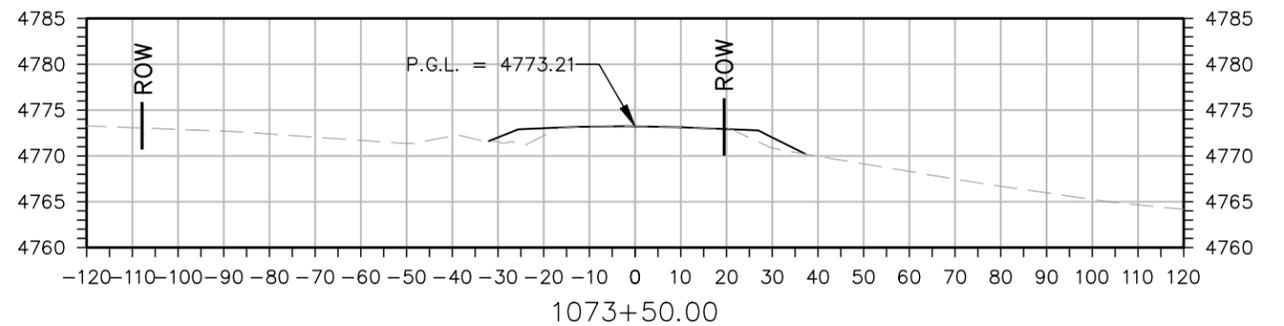
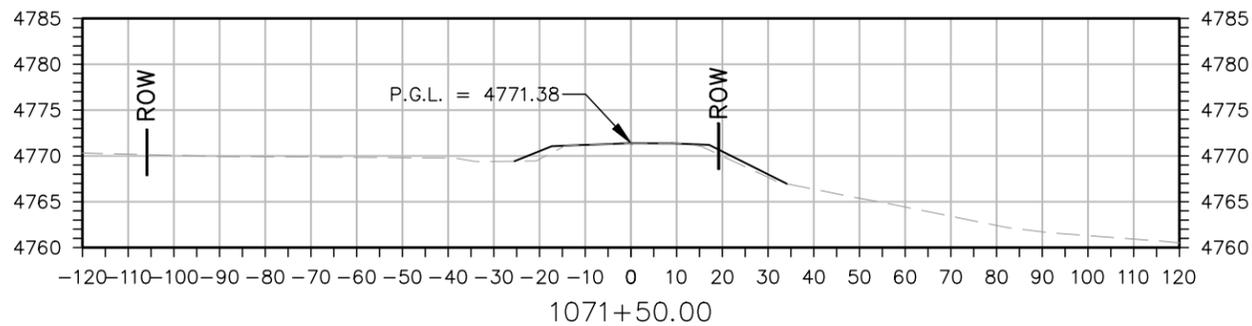
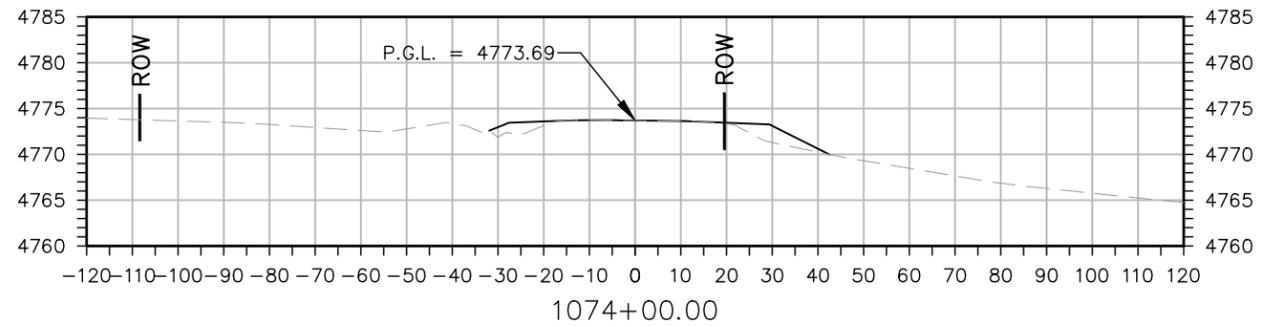
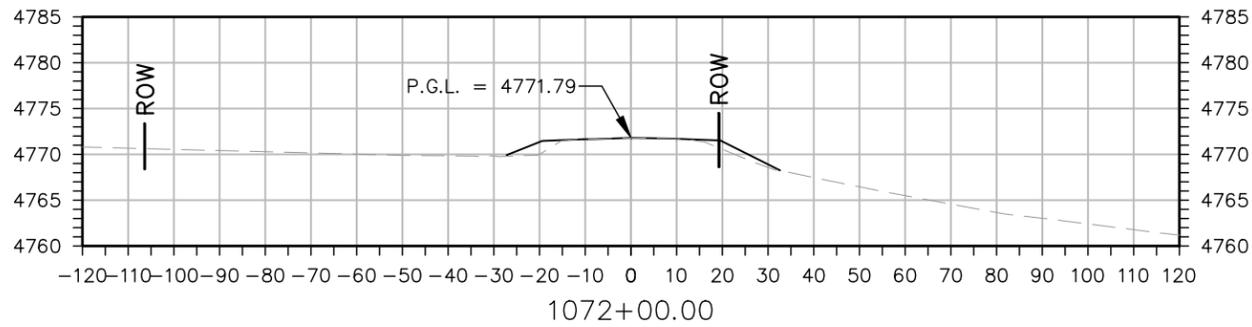
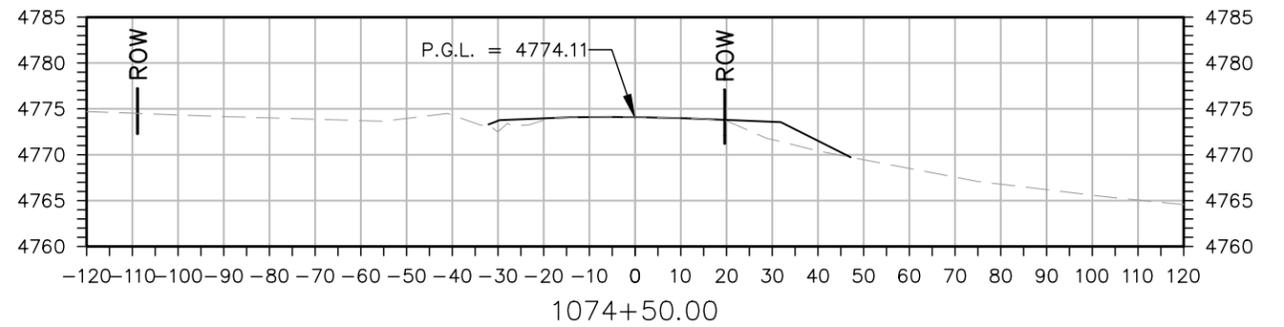
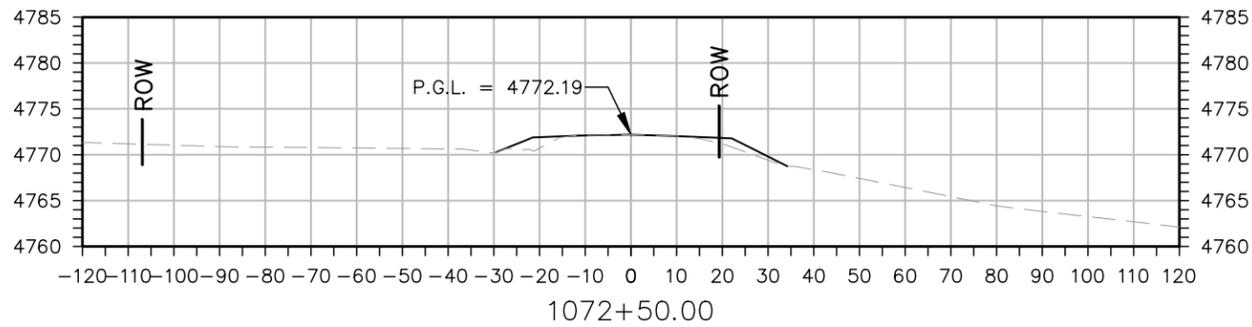
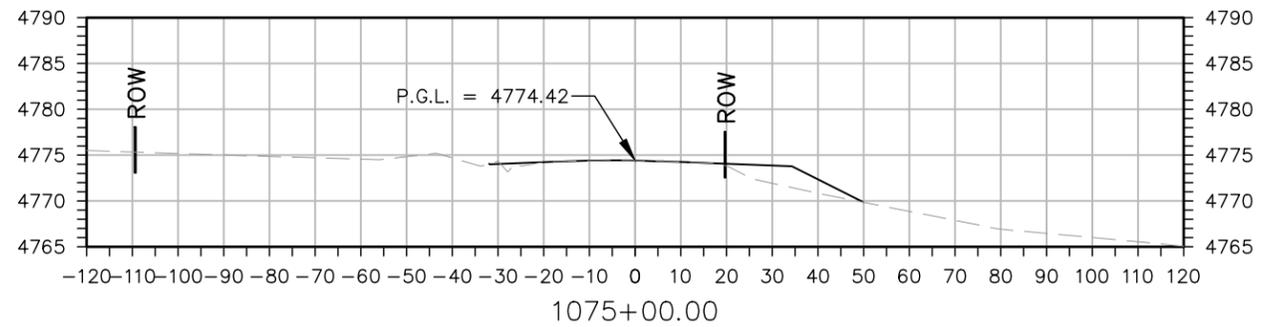
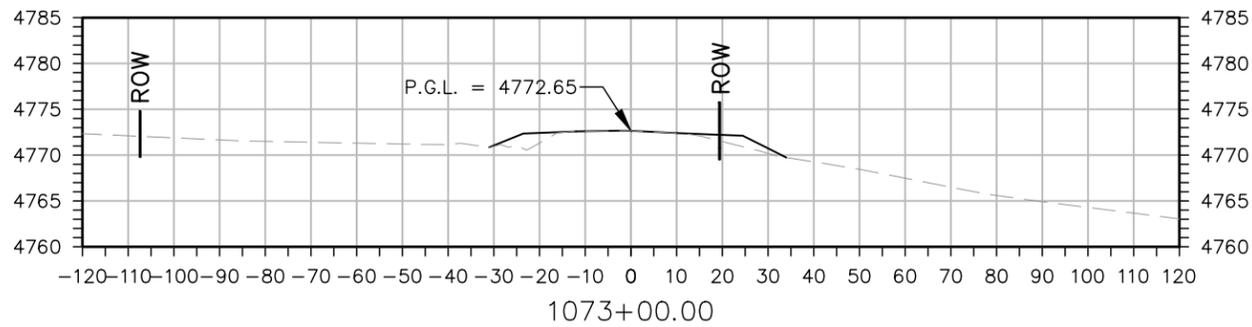


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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 SIGNING AND PAVEMENT MARKINGS PLAN	
Designer: T. Tuttle	Structure Numbers
Detailer: C. Petersen	
Sheet Subset: TRAFFIC	Subset Sheets: 8 of 8

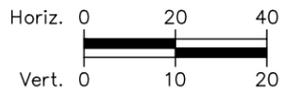
Project No.
AQC M415-021
Drawing Number TRAF-008
Sheet Number 162

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STA. 1071+23.00 BEGIN APPROACH TO PROJECT 37TH ST.



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 File Name: XS P1-001 CROSS SECTIONS.DWG
 Horiz. Scale: As Noted Vert. Scale: As Noted

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Sheet Revisions		
Date:	Comments	Init.



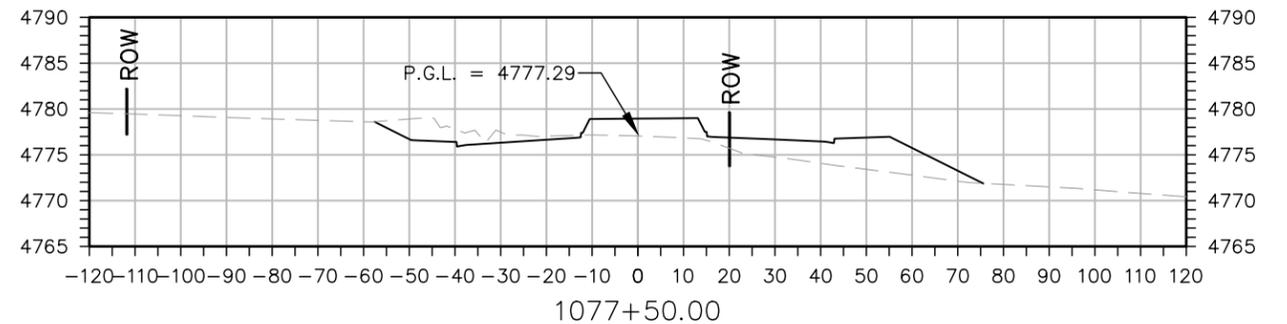
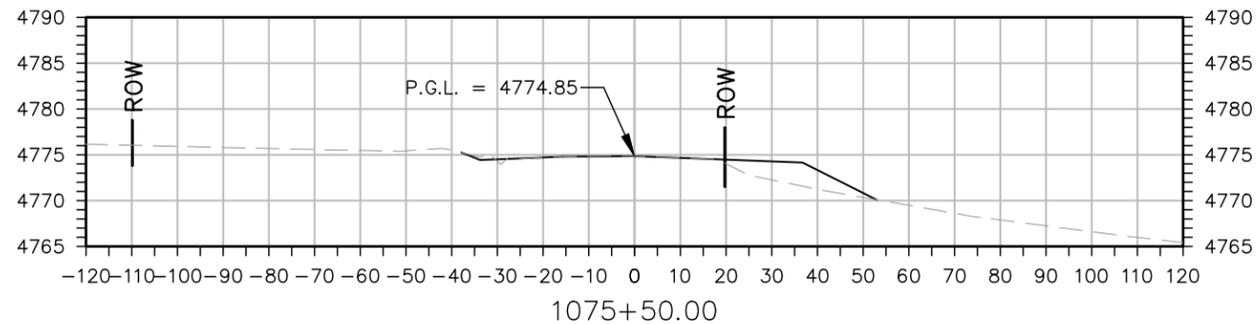
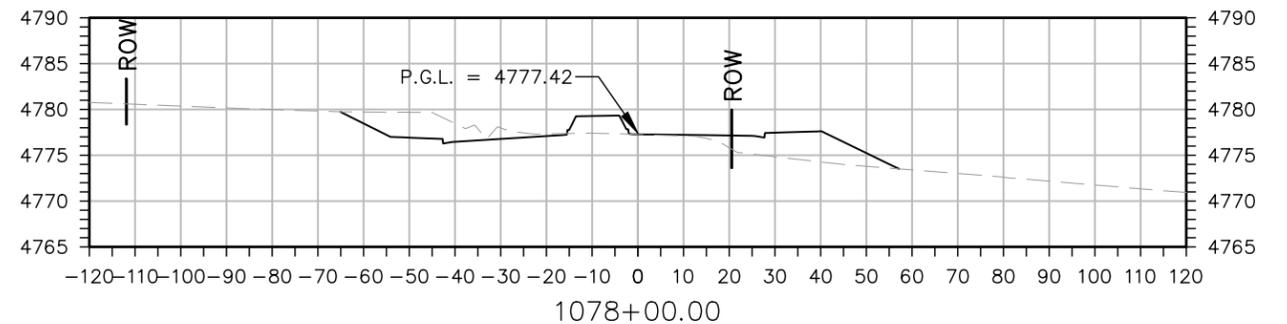
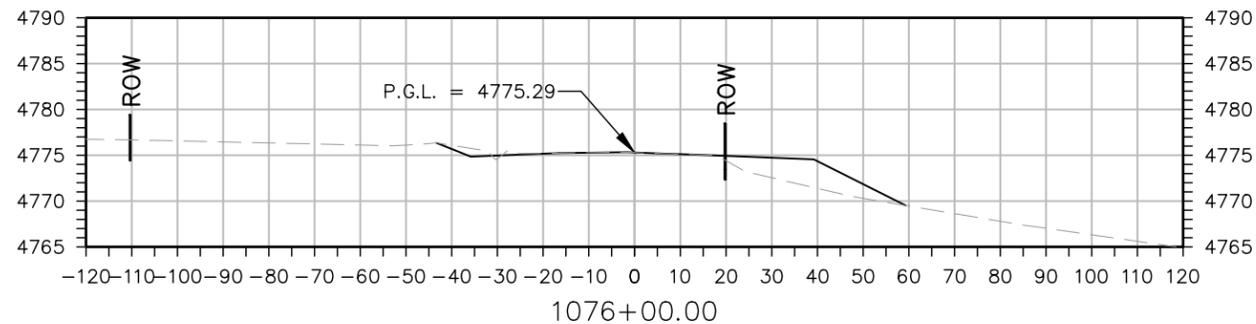
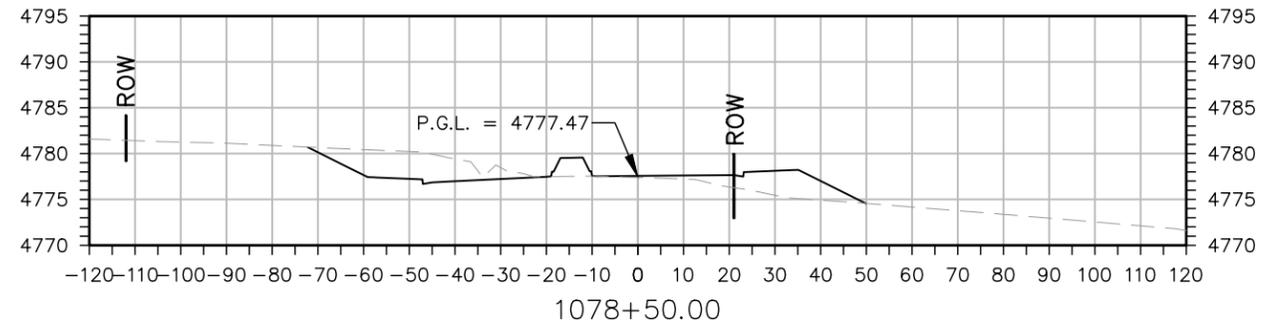
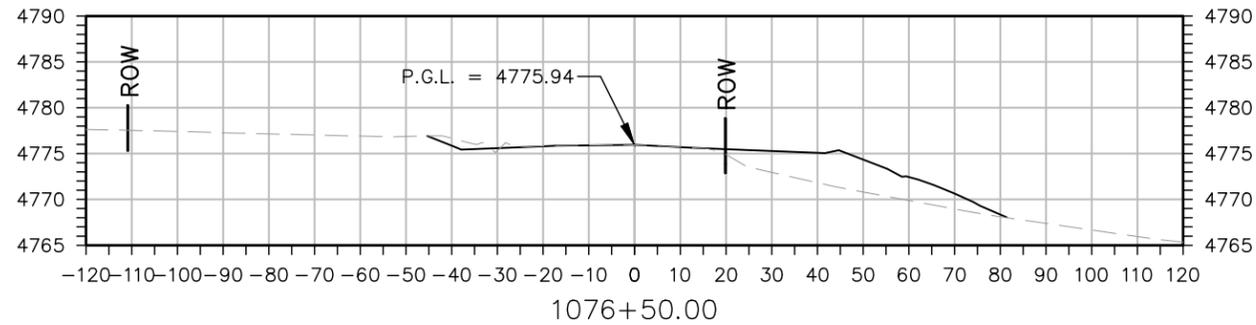
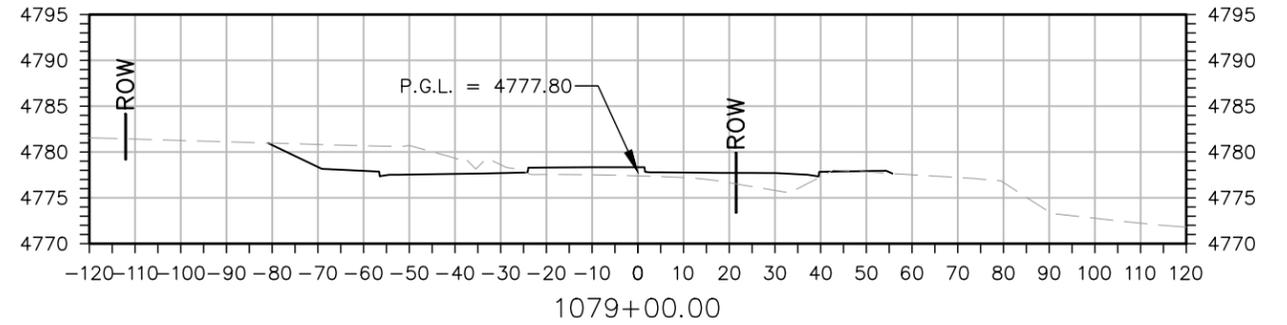
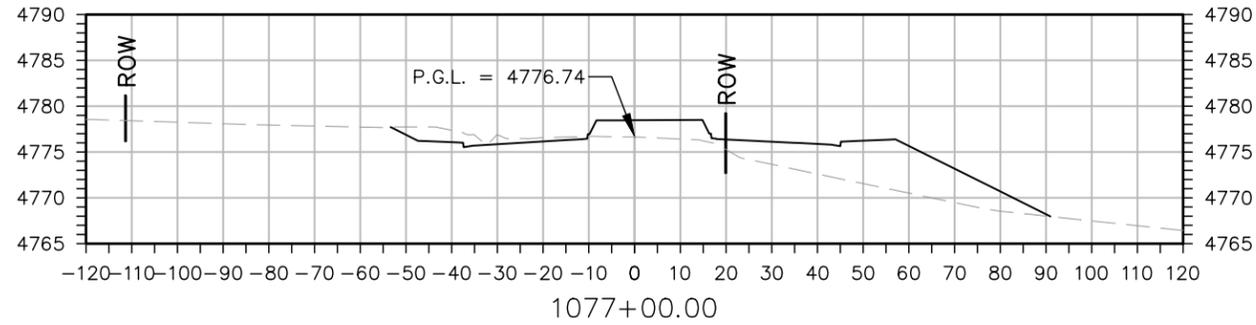
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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 CROSS SECTIONS 37TH STREET	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 1 of 9

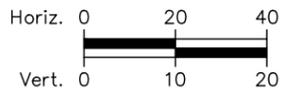
Project No.
AQC M415-021
Drawing Number XS-001
Sheet Number 200

Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
 C:\PROJETS\ACTIVE PROJECTS\37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\P1-001-SHEET FILES\ROUNDABOUT\XS P1-001 CROSS SECTIONS.DWG

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STA. 1076+63.00 END APPROACH TO PROJECT 37TH ST.
 STA. 1076+63.00 BEGIN PROJECT 37TH ST.



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Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ACTIVE PROJECTS\37TH ST AND 47TH AVE PLAN\10-COMPUTER DESIGN FILES\PI-001-SHEET FILES\ROUNDABOUT\XS PI-001 CROSS SECTIONS.DWG

Print Date: 2/8/2022	
File Name: XS P1-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date:	Comments	Init.

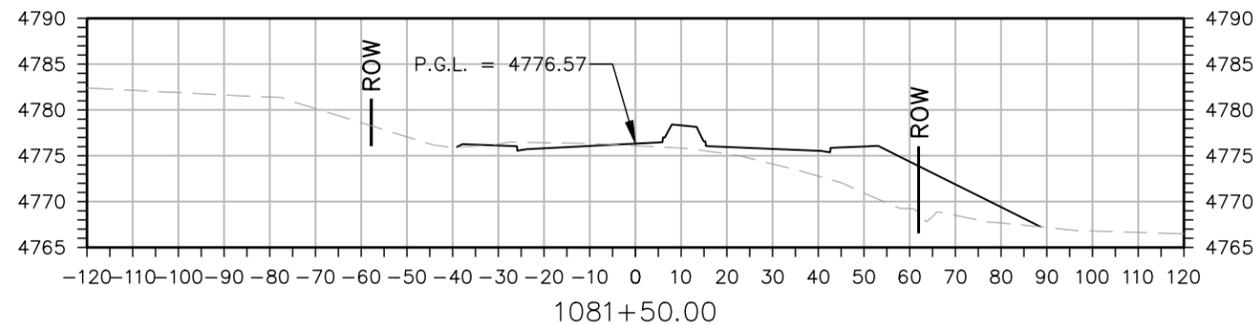
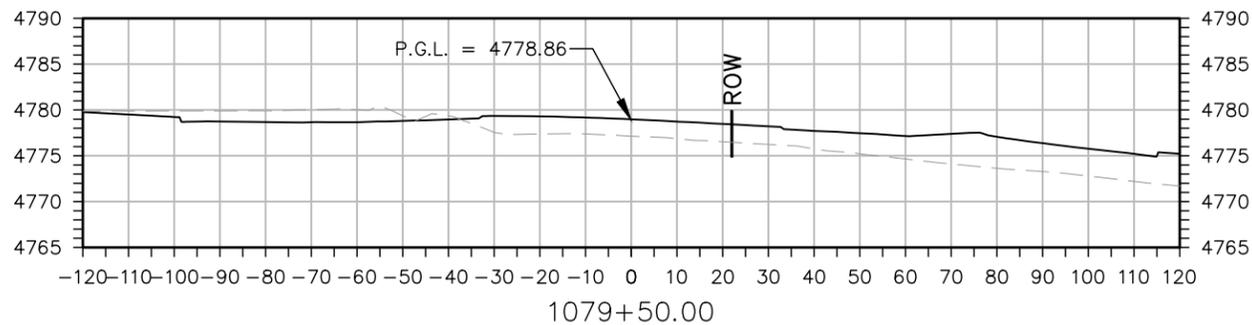
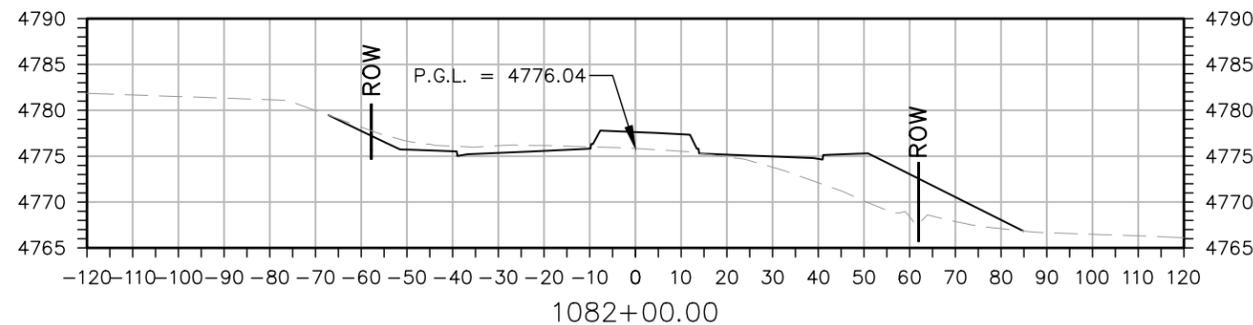
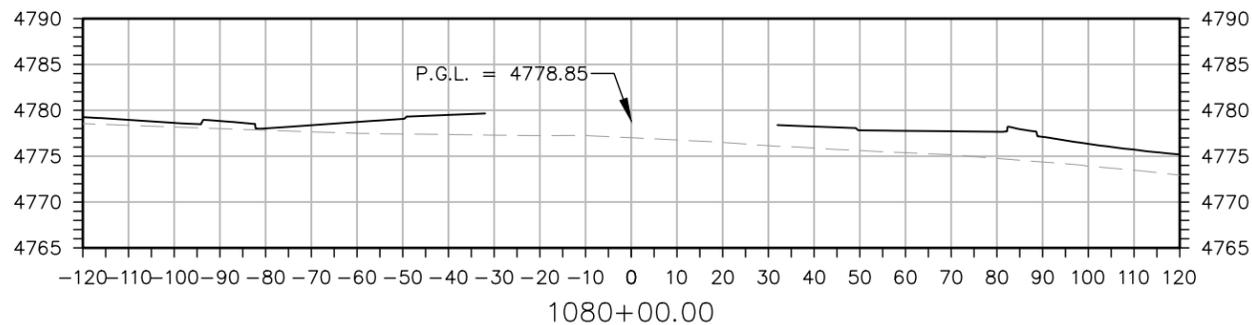
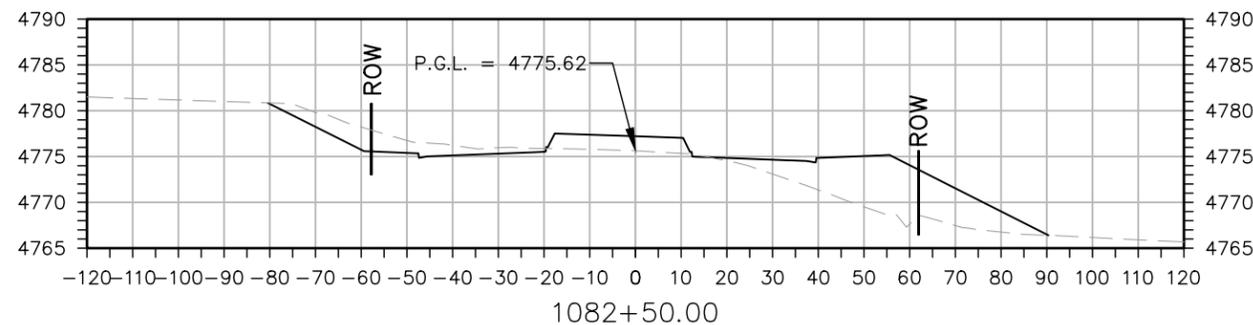
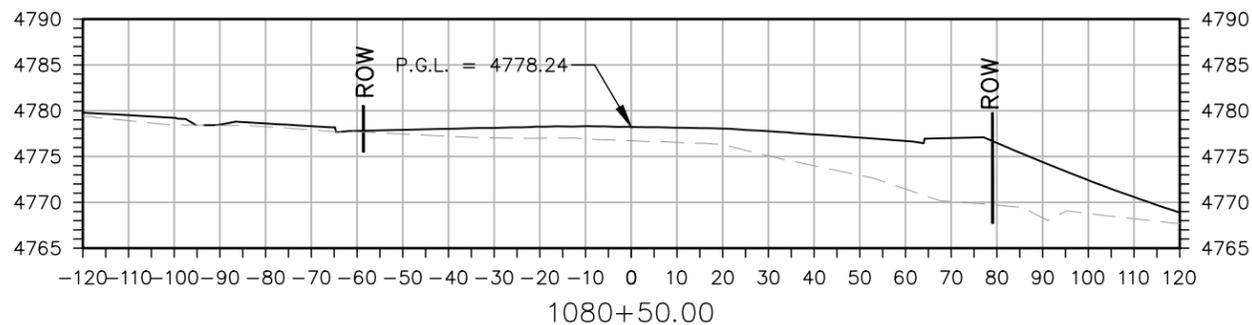
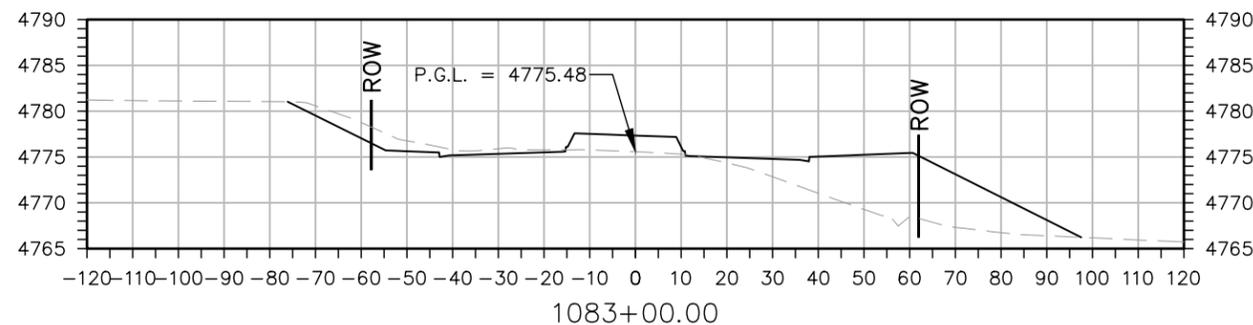
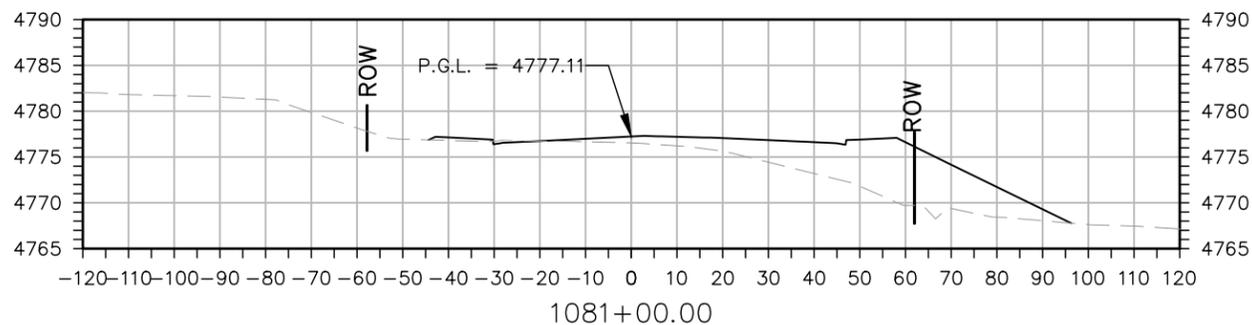


As Constructed
No Revisions:
Revised:
Void:

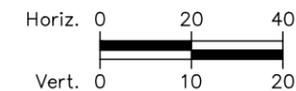
37TH STREET WIDENING PHASE 1 CROSS SECTIONS 37TH STREET	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 2 of 9

Project No.
AQC M415-021
Drawing Number XS-002
Sheet Number 201

ADVERTISEMENT SET 12/1/2022



STA. 1079+88.51 37TH ST. = STA. 3004+00.00 47TH AVE
 = STA. 3004+00.00 ARROWHEAD DR.



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Print Date: 2/8/2022	
File Name: XS P1-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
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Sheet Revisions		
Date:	Comments	Init.



As Constructed
No Revisions:
Revised:
Void:

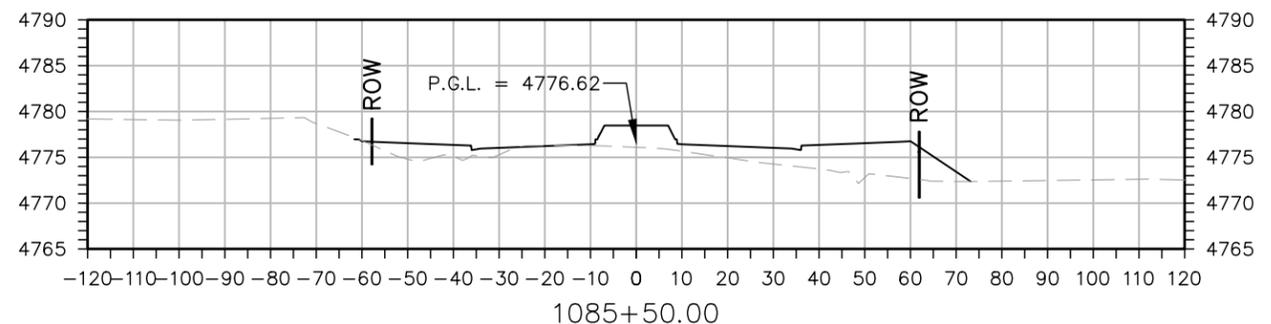
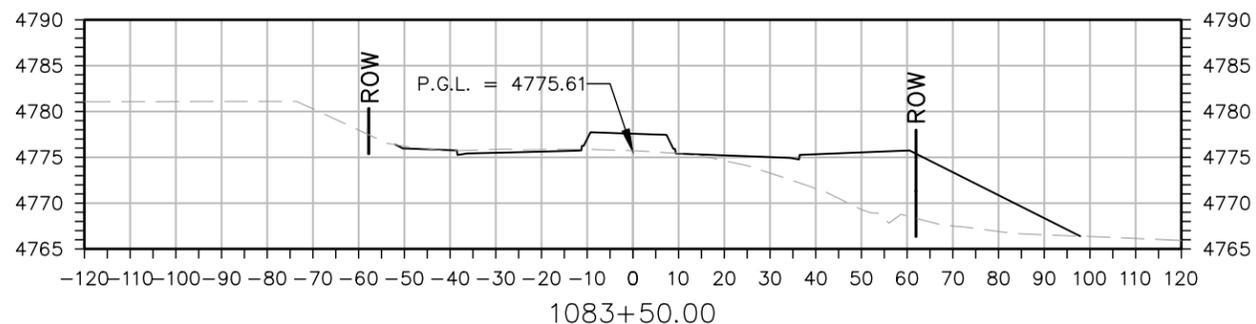
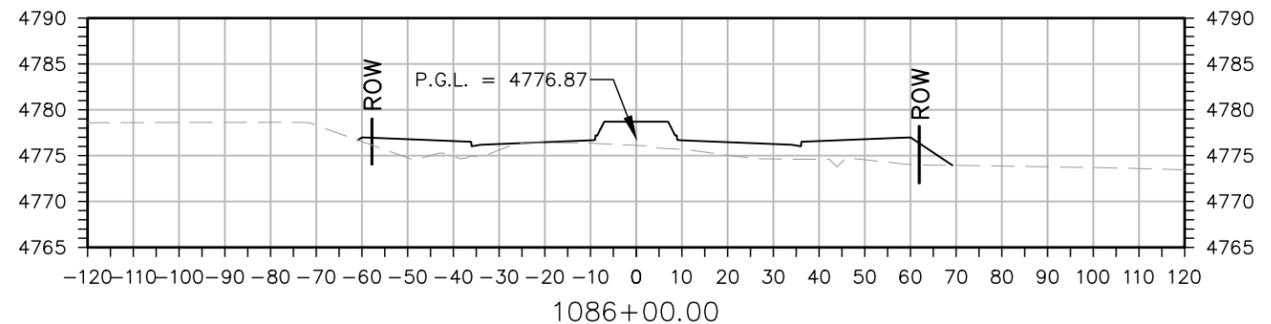
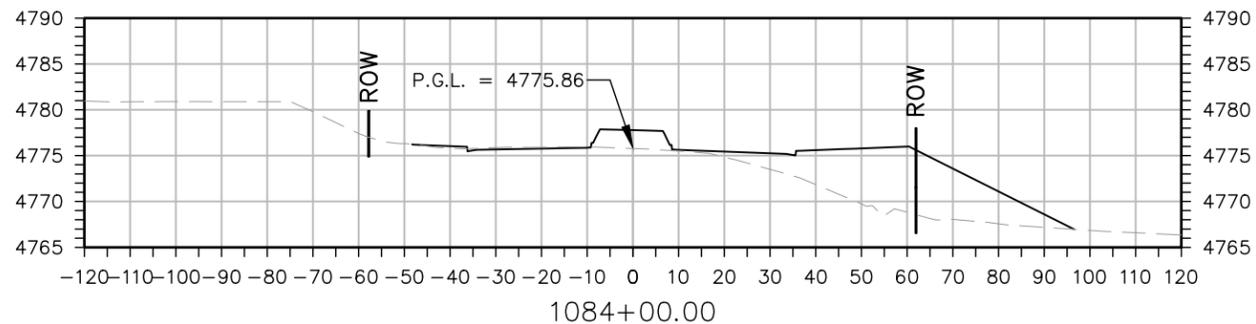
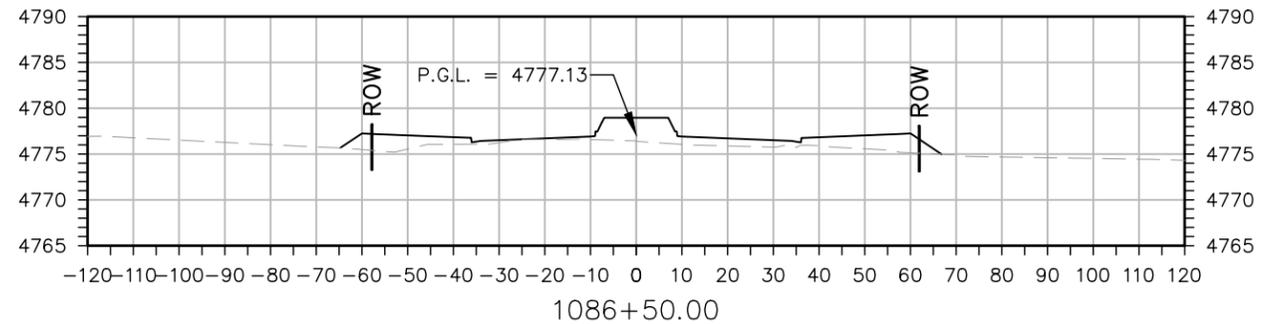
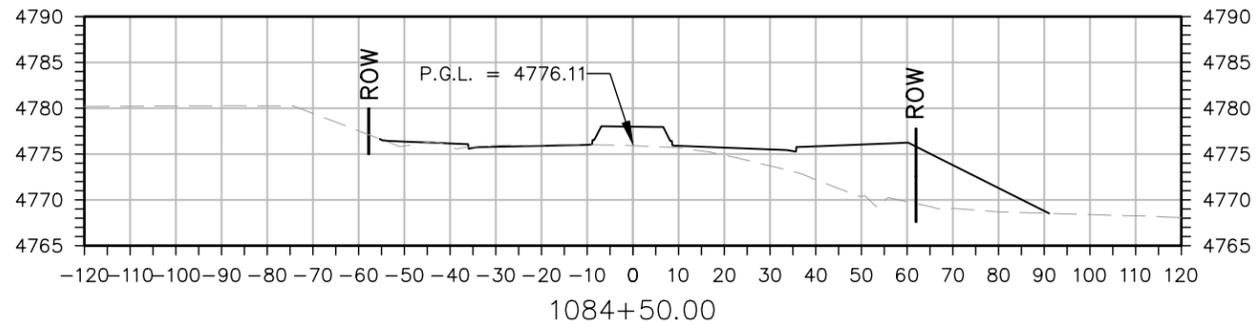
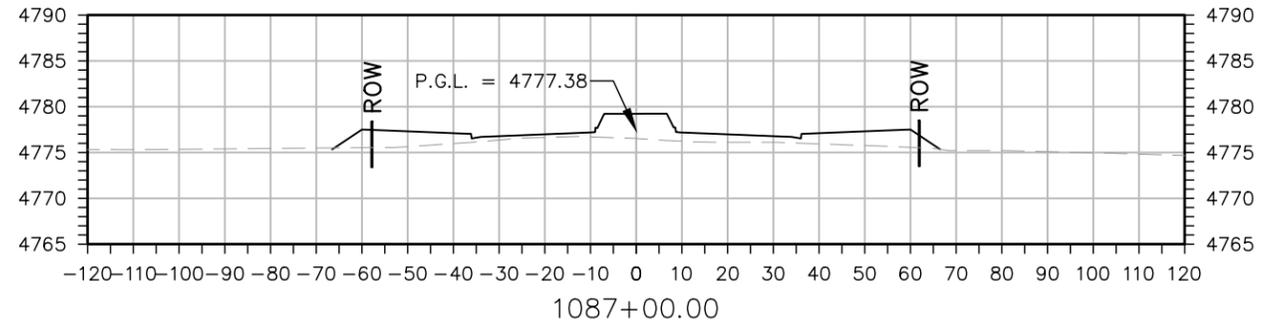
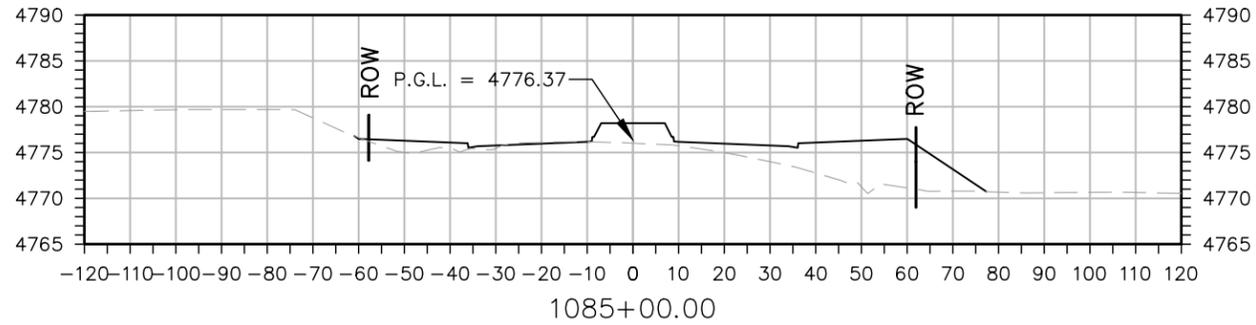
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Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 3 of 9

Project No.
AQC M415-021
Drawing Number XS-003
Sheet Number 202

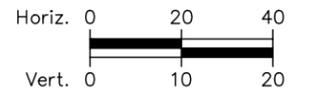
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Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
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Sheet Revisions		
Date:	Comments	Init.



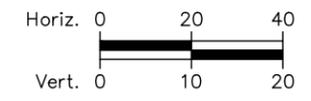
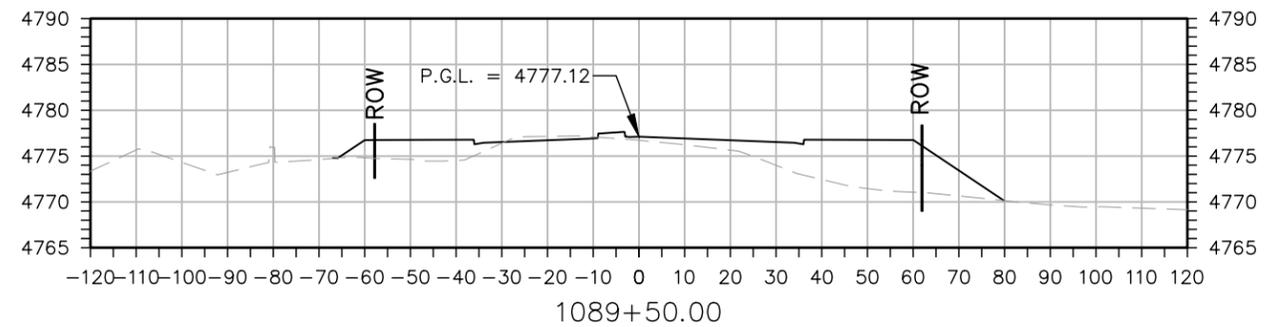
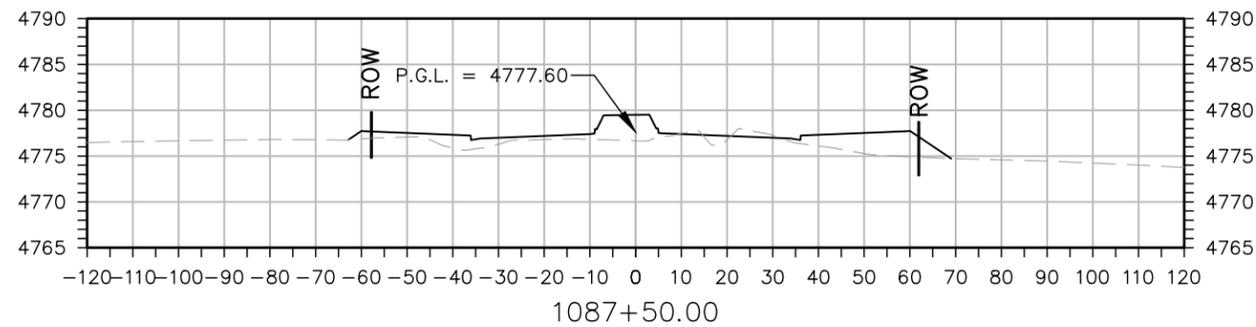
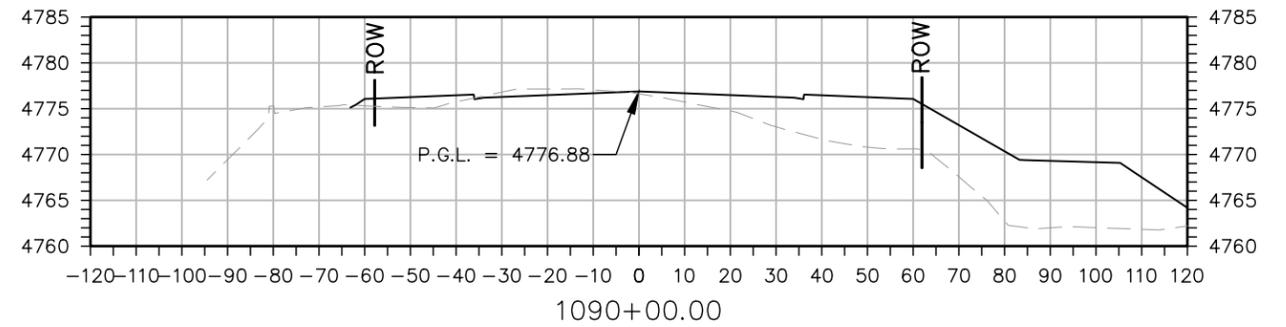
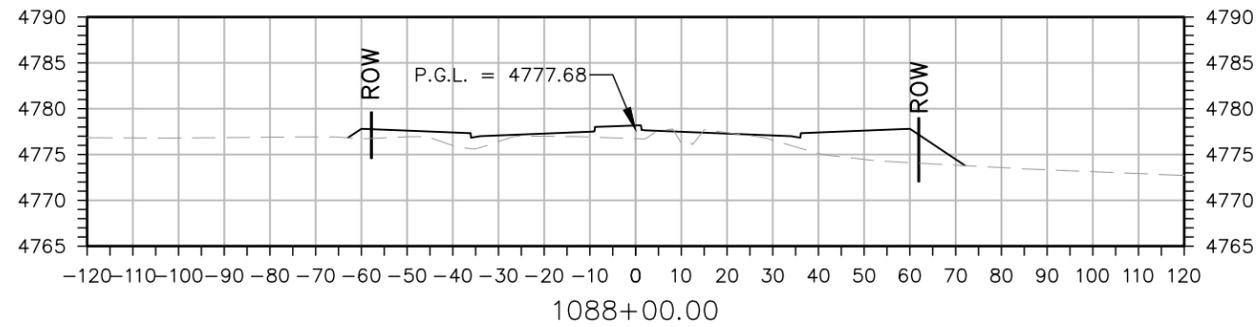
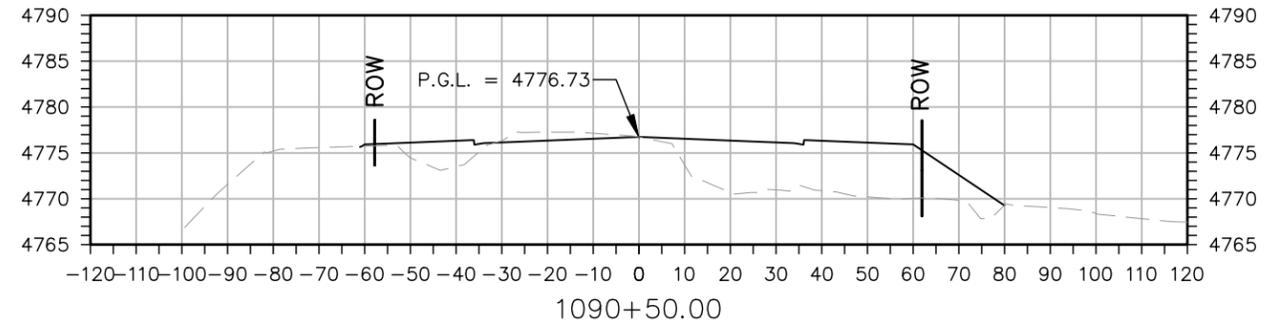
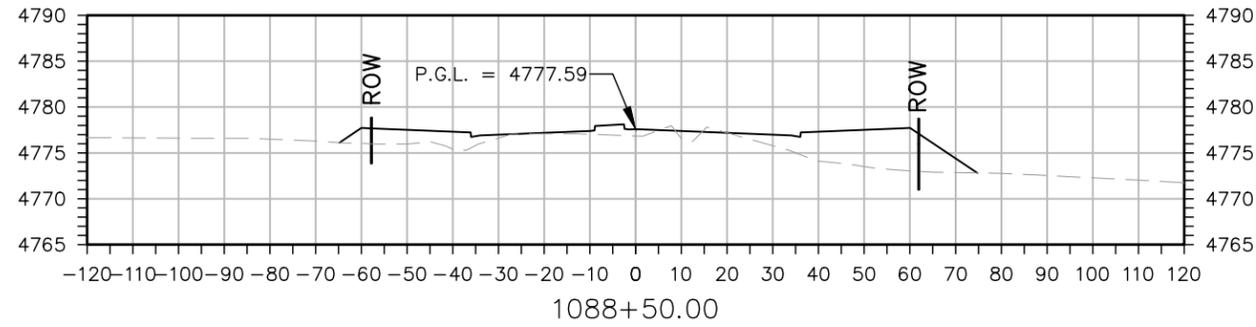
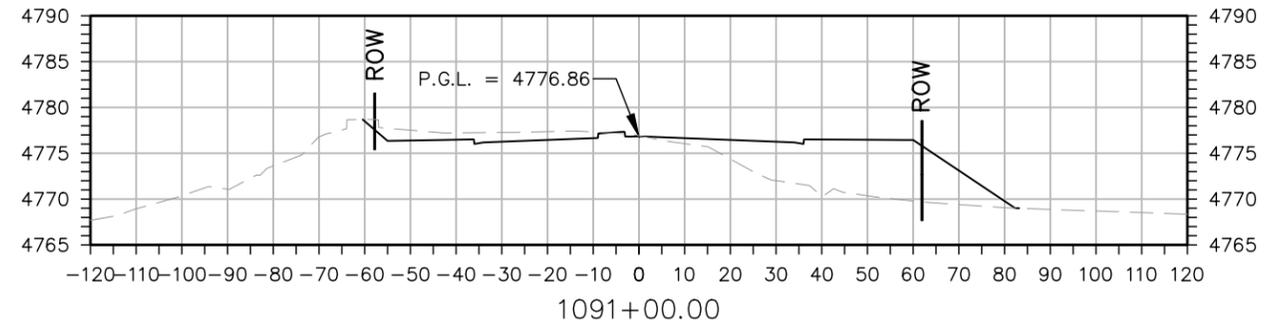
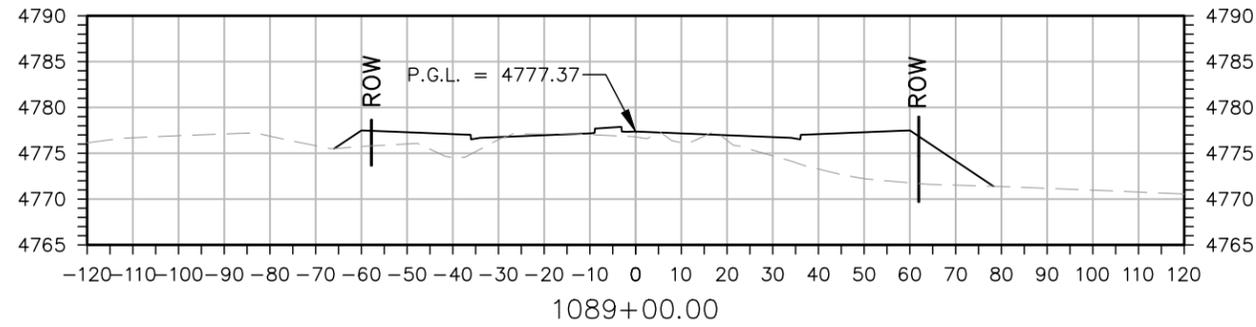
As Constructed
 No Revisions:
 Revised:
 Void:

**37TH STREET WIDENING PHASE 1
 CROSS SECTIONS
 37TH STREET**
 Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: X SECTIONS
 Structure Numbers
 Subset Sheets: 4 of 9

Project No.
 AQC M415-021
 Drawing Number XS-004
 Sheet Number 203

ADVERTISEMENT SET 12/1/2022

STA. 1091+47.00 END PROJECT 37TH ST.
 STA. 1091+47.00 BEGIN APPROACH TO PROJECT 37TH ST.



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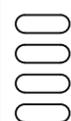
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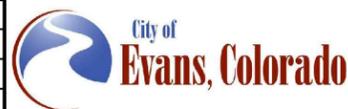


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Sheet Revisions

Date:	Comments	Init.



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No Revisions:
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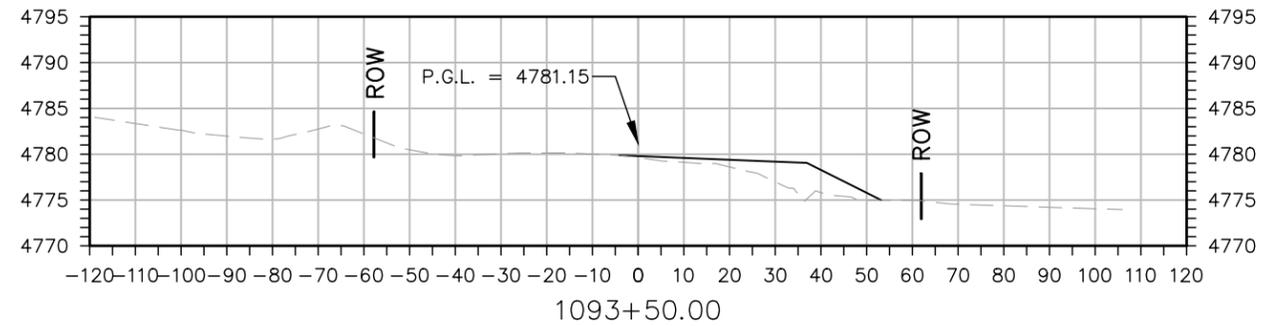
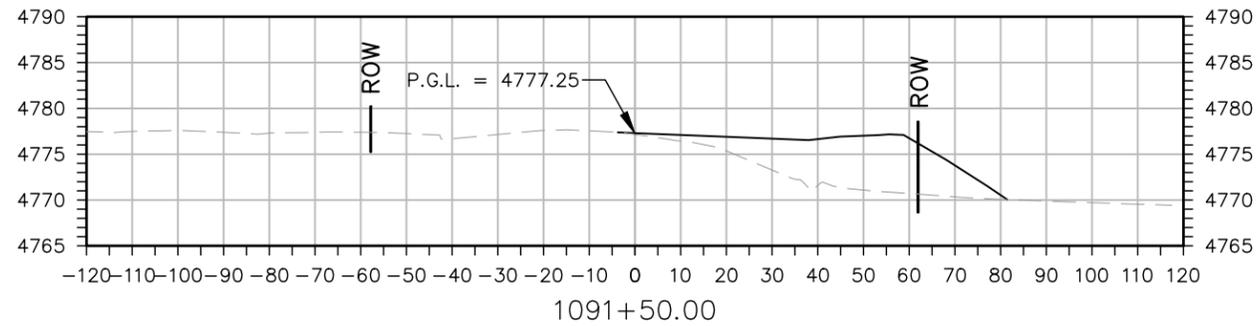
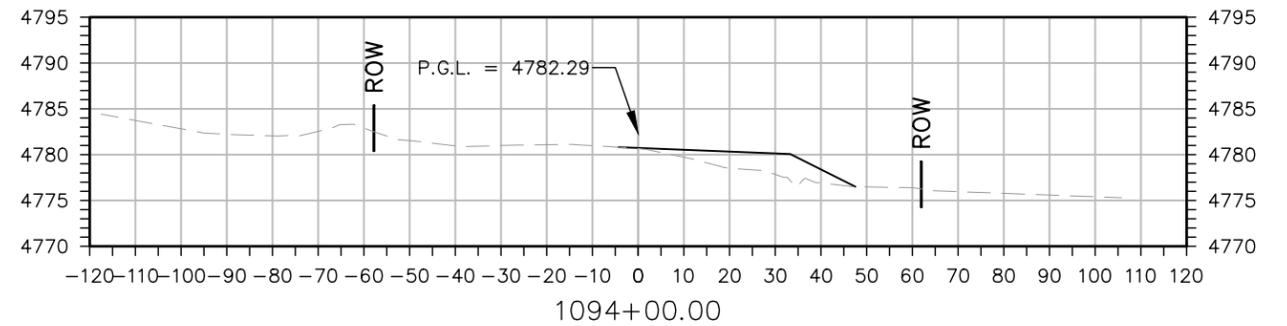
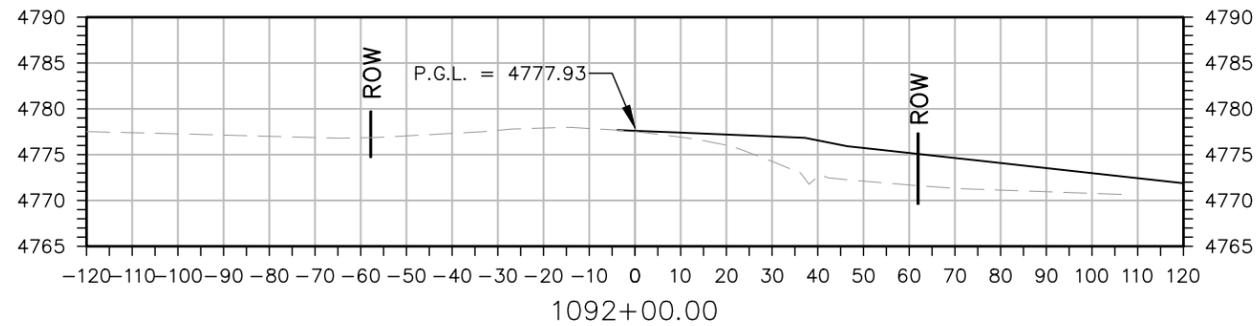
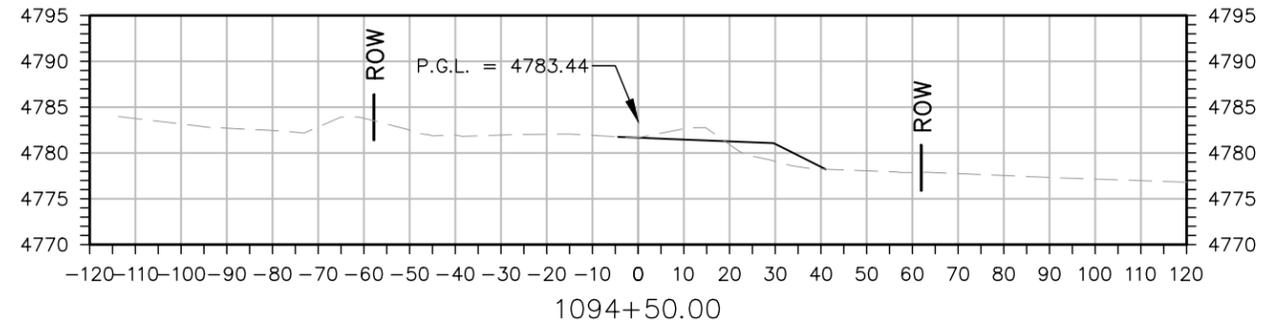
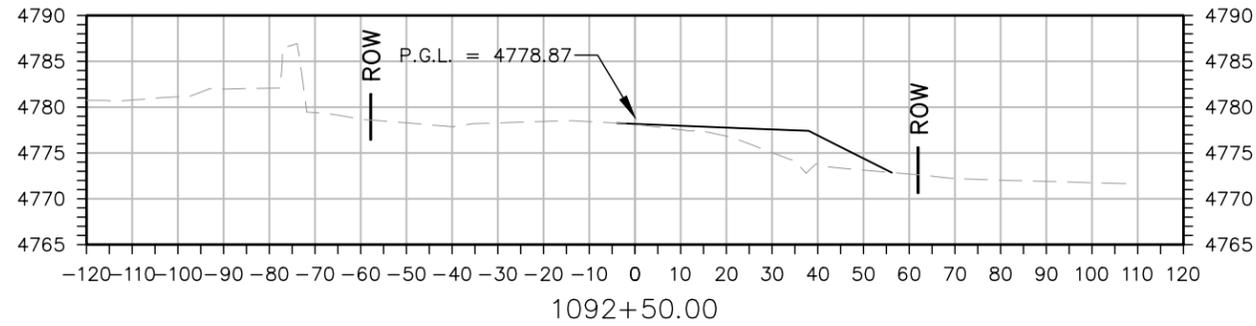
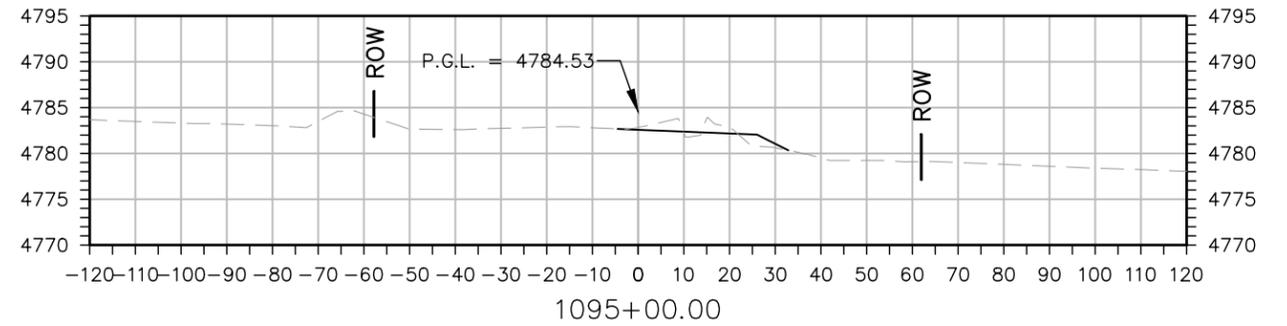
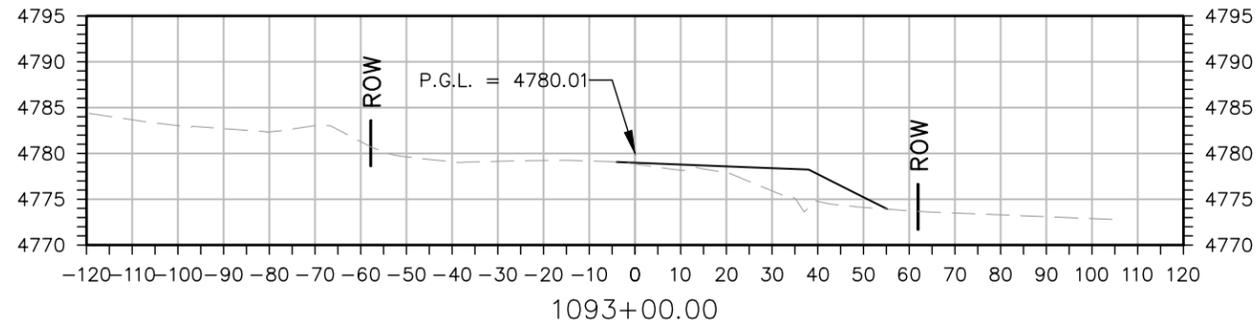
37TH STREET WIDENING PHASE 1
 CROSS SECTIONS
 37TH STREET

Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: X SECTIONS
 Structure Numbers
 Subset Sheets: 5 of 9

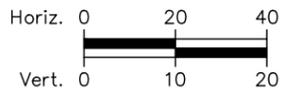
Project No.

AQC M415-021
 Drawing Number XS-005
 Sheet Number 204

Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
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Sheet Revisions		
Date:	Comments	Init.



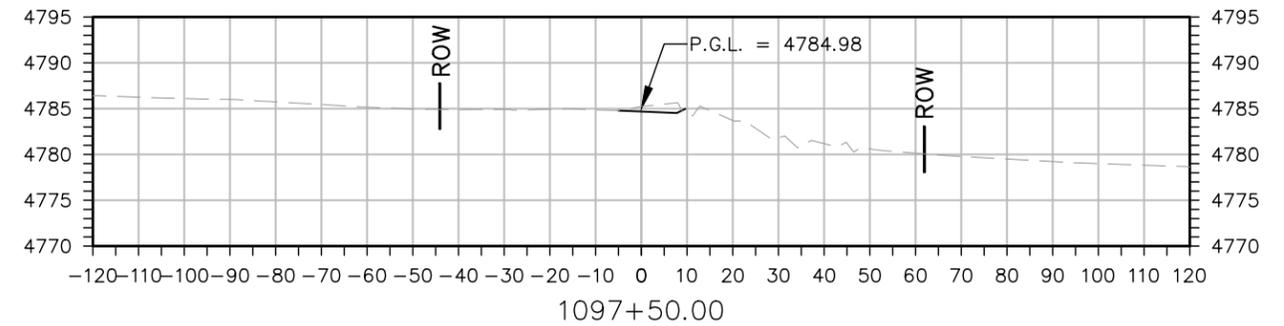
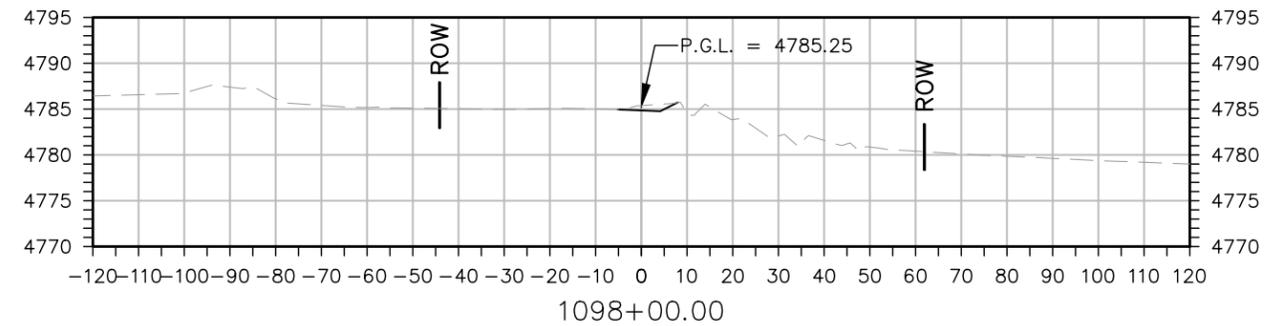
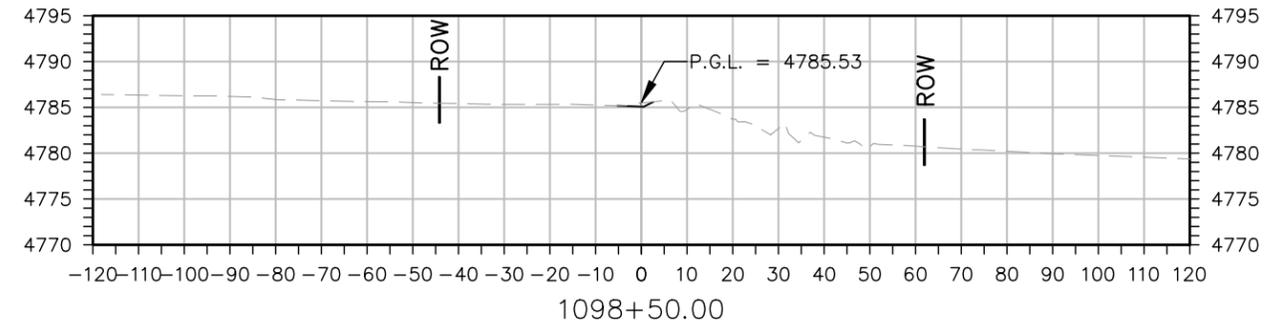
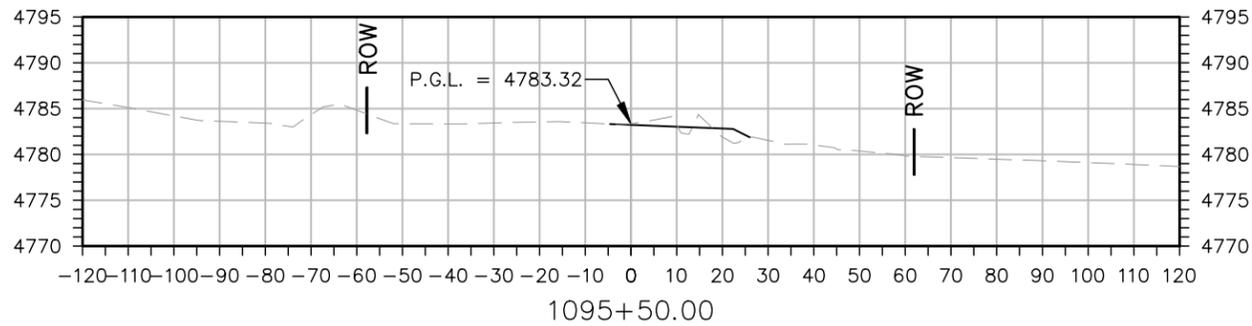
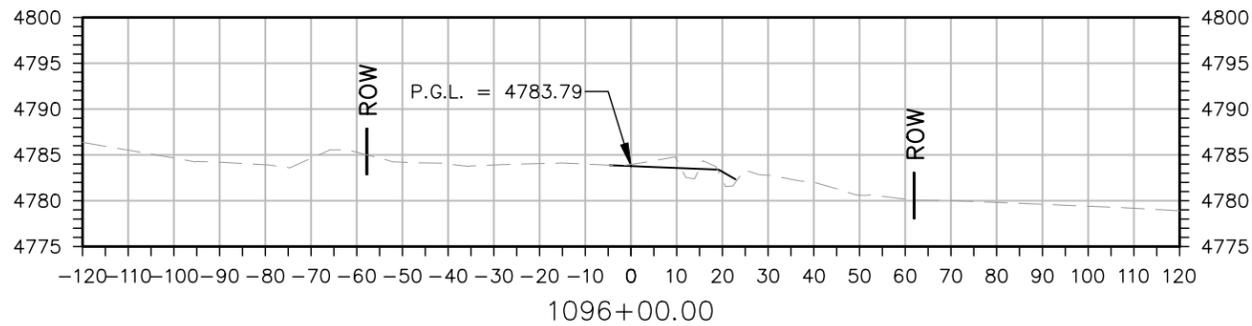
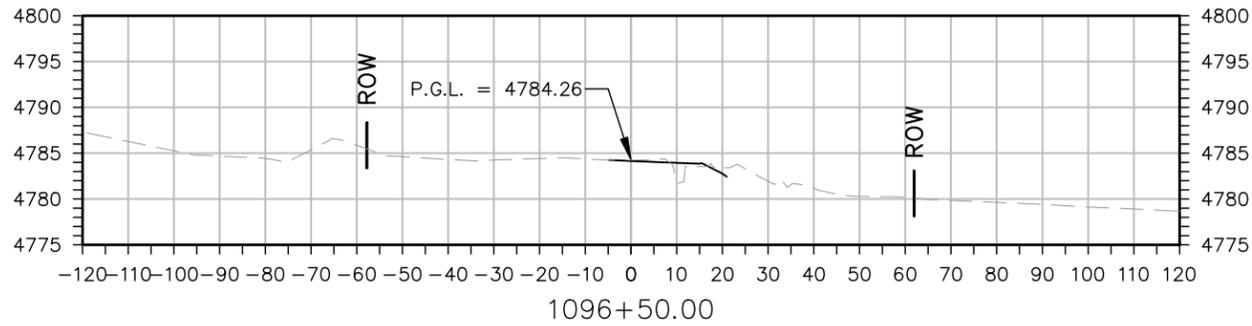
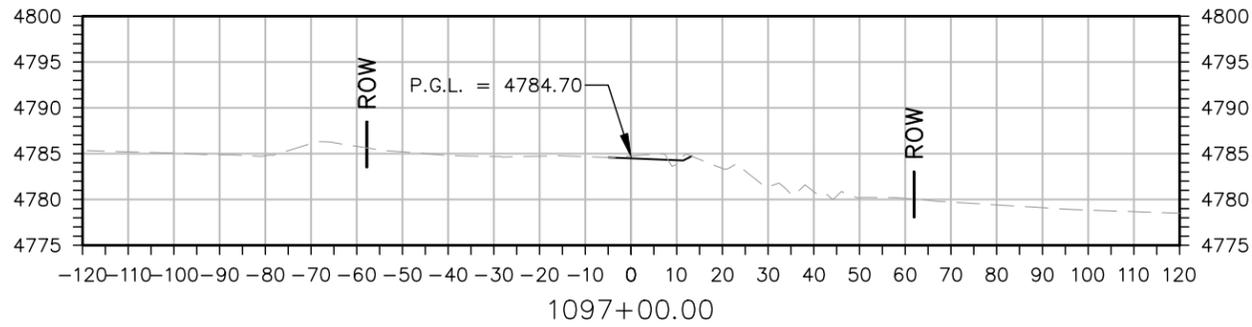
As Constructed
 No Revisions:
 Revised:
 Void:

37TH STREET WIDENING PHASE 1 CROSS SECTIONS 37TH STREET	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 6 of 9

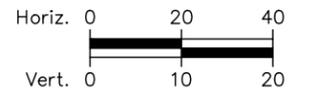
Project No.
AQC M415-021
Drawing Number XS-006
Sheet Number 205

ADVERTISEMENT SET 12/1/2022

Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
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STA. 1098+75.00 END APPROACH TO PROJECT 37TH ST.



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Date:	Comments	Init.



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No Revisions:
Revised:
Void:

**37TH STREET WIDENING PHASE 1
CROSS SECTIONS
37TH STREET**

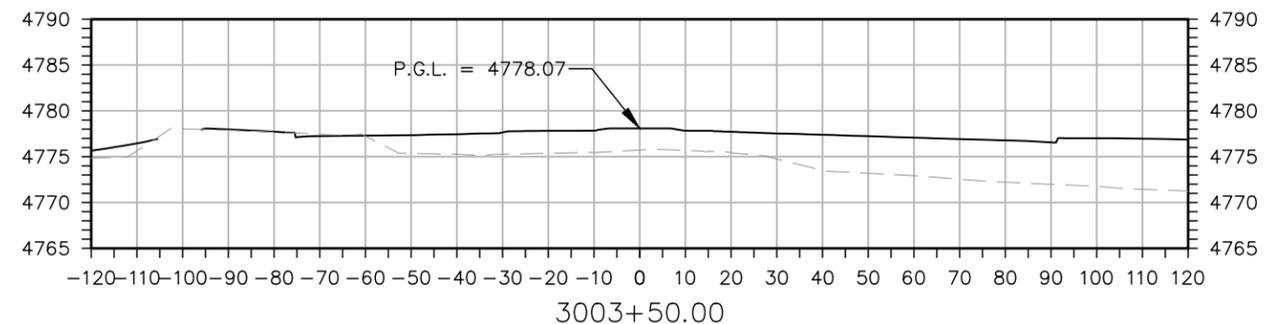
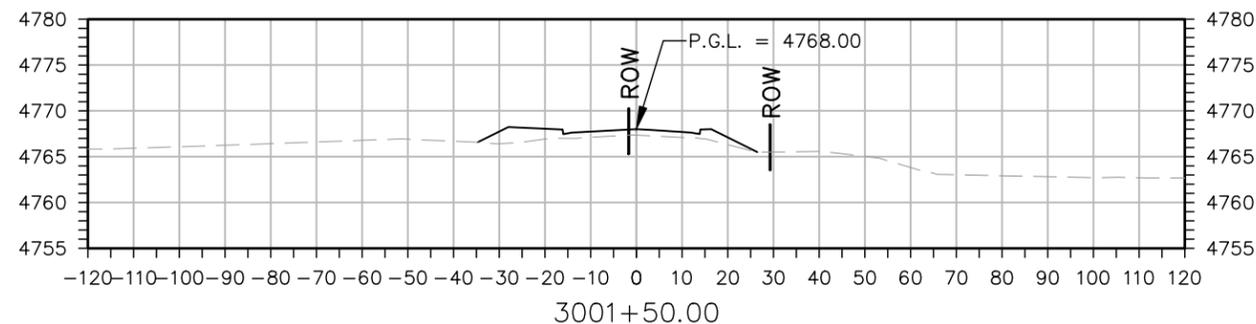
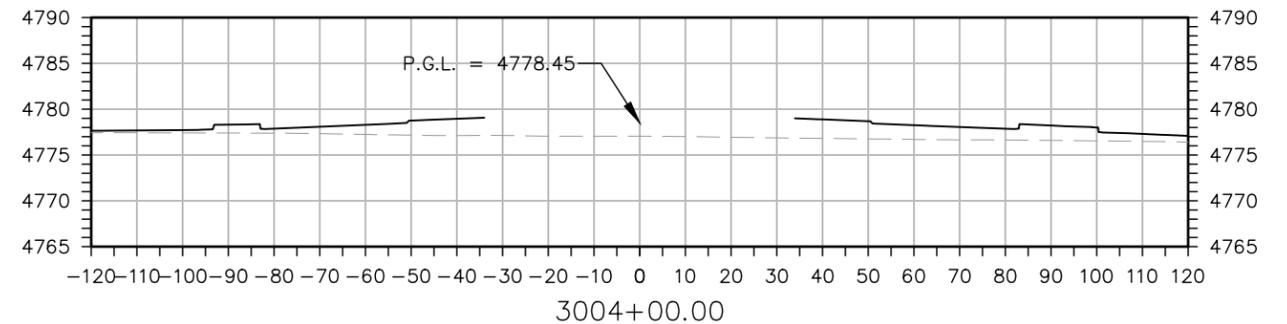
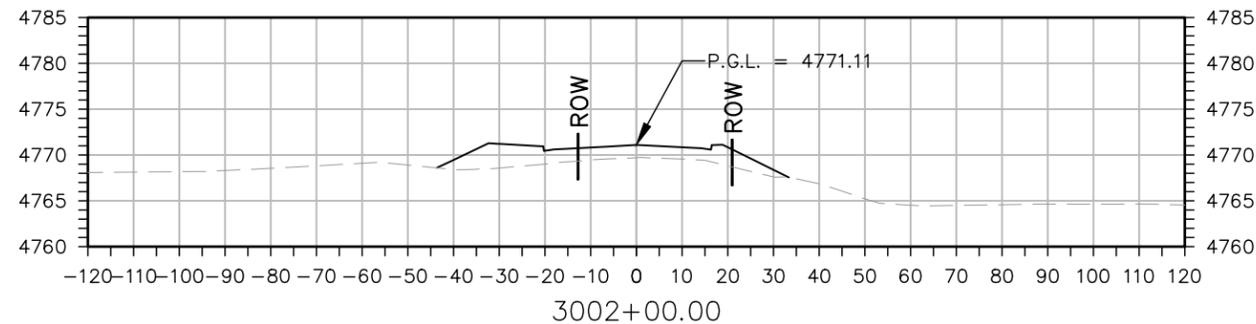
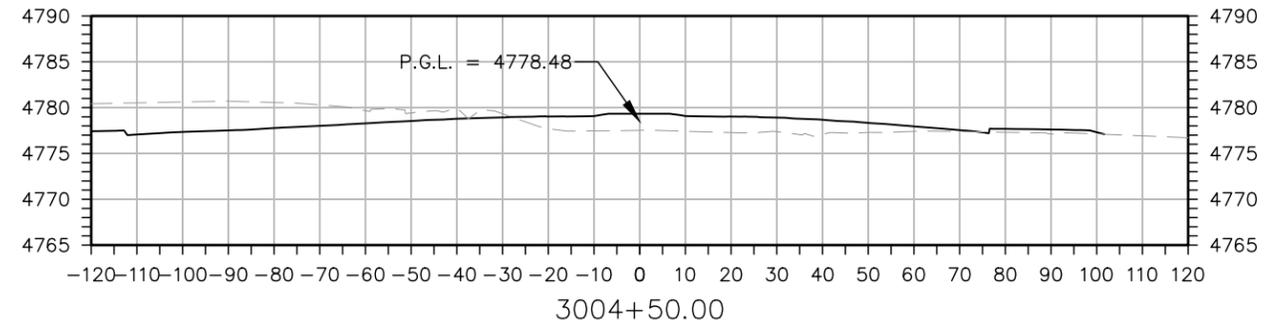
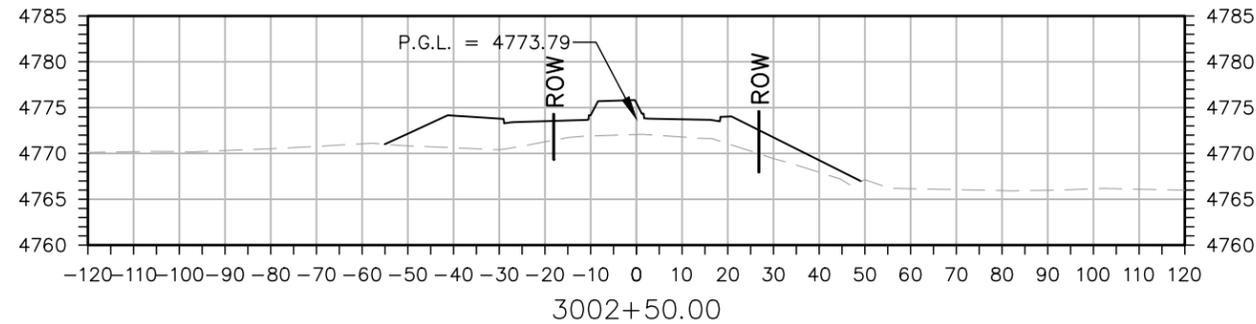
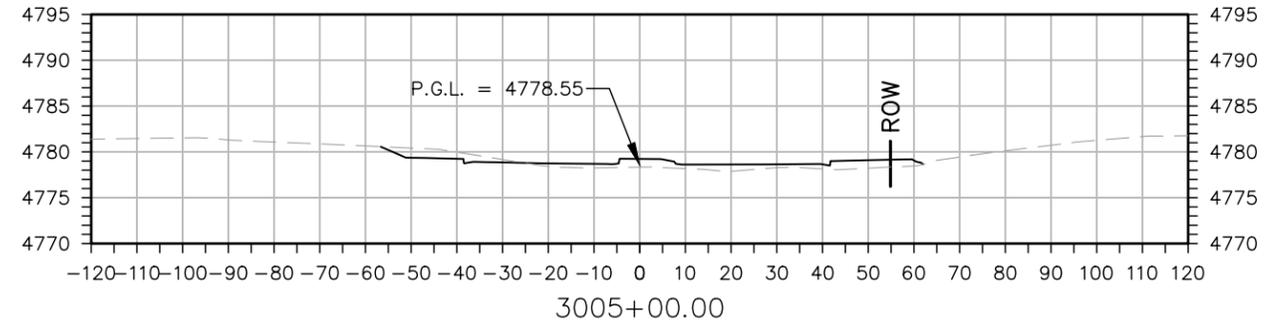
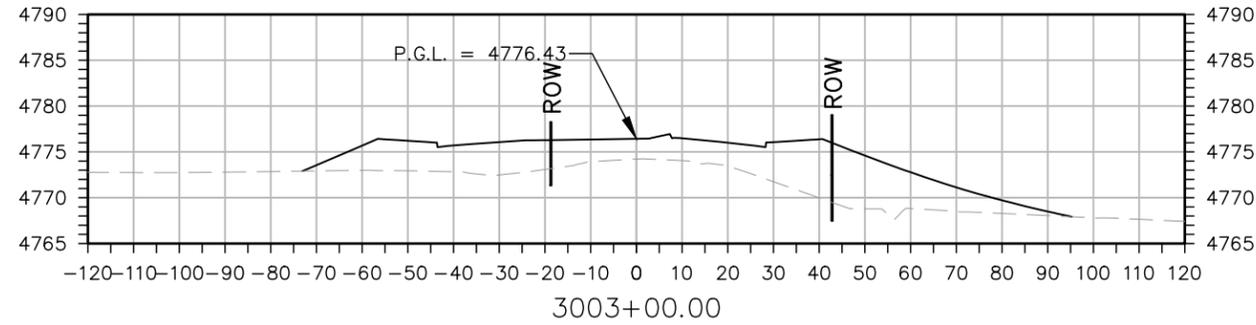
Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	X SECTIONS	Subset Sheets:	7 of 9

Project No.

AQC M415-021
Drawing Number XS-007
Sheet Number 206

ADVERTISEMENT SET 12/1/2022

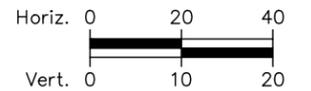
STA. 1079+88.51 37TH ST. = STA. 3004+00.00 47TH AVE
 = STA. 3004+00.00 ARROWHEAD DR.



STA. 3001+17.00 BEGIN PROJECT 47TH AVE.



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Print Date: 2/8/2022
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Date:	Comments	Init.



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**37TH STREET WIDENING PHASE 1
 CROSS SECTIONS
 ARROWHEAD DR AND 47TH AVE**

Designer: T. Tuttle
 Detailer: S. Hemler
 Sheet Subset: X SECTIONS

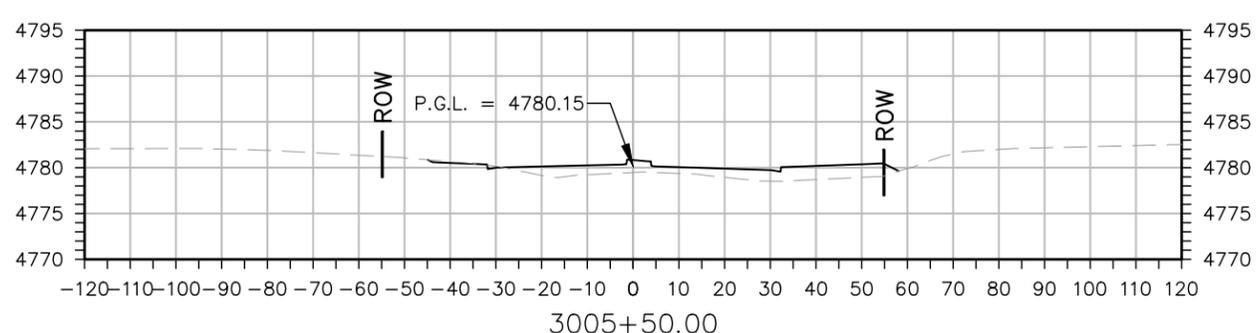
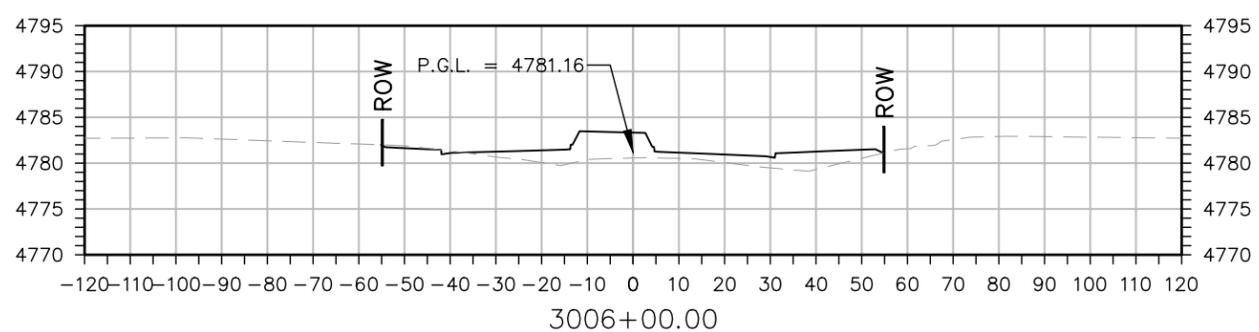
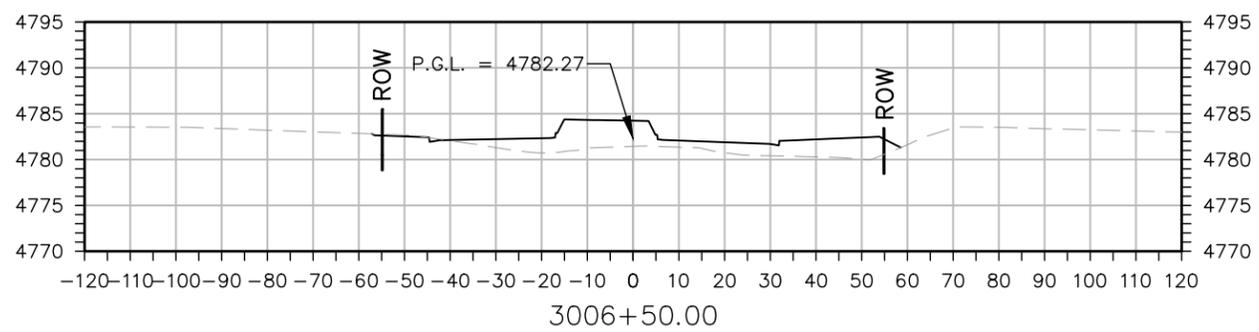
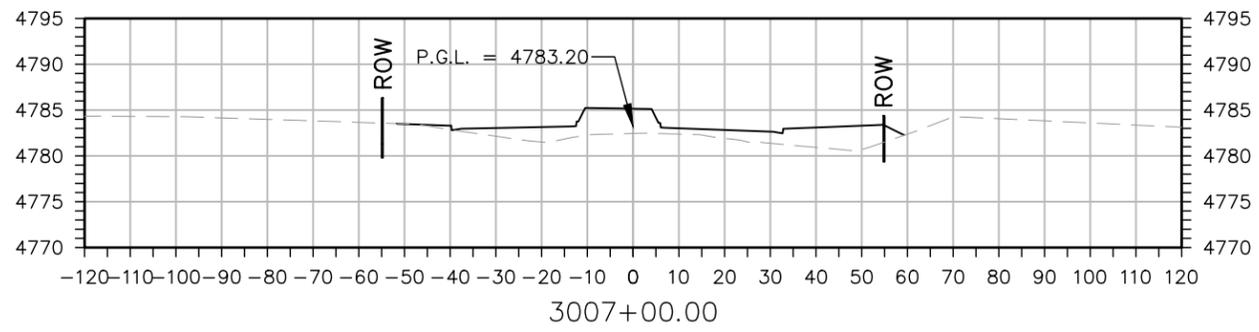
Structure Numbers
 Subset Sheets: 8 of 9

Project No.
 AQC M415-021
 Drawing Number XS-008
 Sheet Number 207

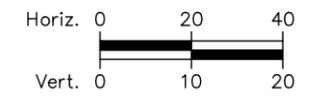
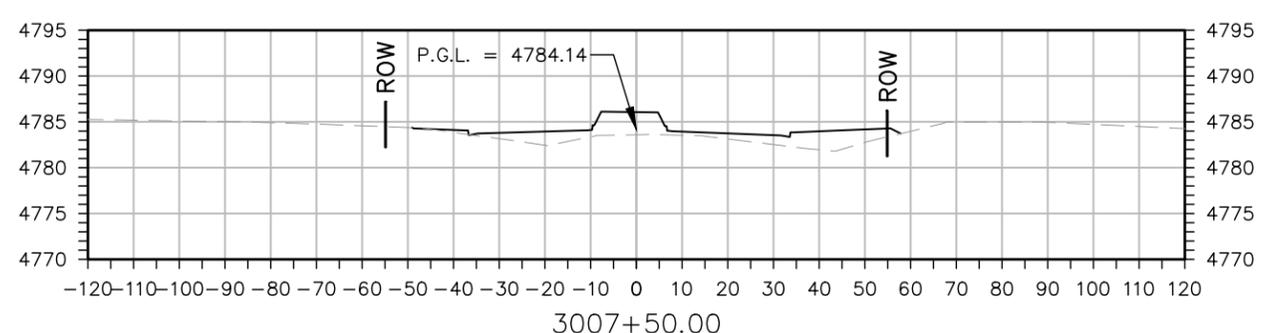
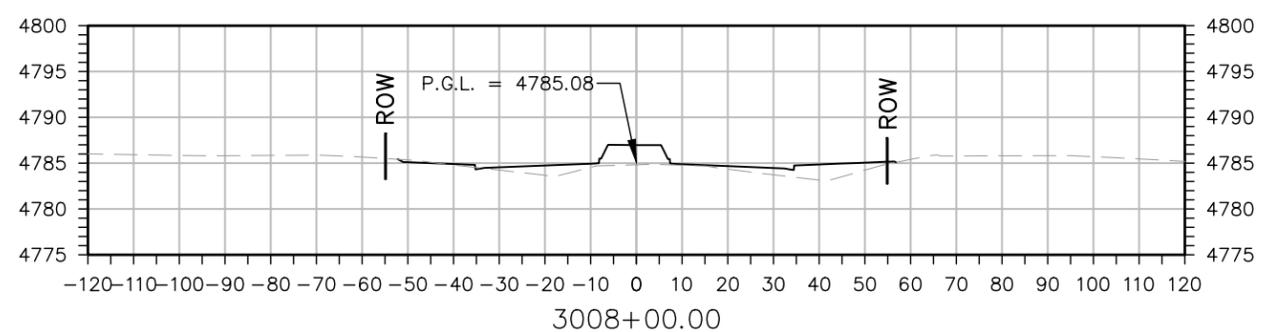
Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
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Plot Date: 2/8/2022 8:42 AM Plotted By: Sarah Hemler
 C:\P-PROJECTS\ARROWHEAD PROJECTS\33001\LEWIS 37TH ST AND 47TH AVE PLAN\10-CROSS SECTION FILES\ROUNDABOUT\XS P1-001 CROSS SECTIONS.DWG



STA. 3008+34.00 END PROJECT 47TH AVE.



Print Date: 2/8/2022	
File Name: XS P1-001 CROSS SECTIONS.DWG	
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Sheet Revisions		
Date:	Comments	Init.



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No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 1 CROSS SECTIONS ARROWHEAD DR AND 47TH AVE	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 9 of 9

Project No.
AQC M415-021
Drawing Number XS-009
Sheet Number 208

ADVERTISEMENT SET 12/1/2022