

Oversight / NHS

FHWA REGION VIII OVERSIGHT?  NO  YES

NATIONAL HIGHWAY SYSTEM?  NO  YES

Related Projects:

P. E. UNDER PROJECT:  
Project Number SHE M555-034  
Project Code: 23652

R.O.W. Projects:

R.O.W. Project Description SHE M555-034

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED  
FEDERAL AID PROJECT NO. SHE M555-034  
Horizon Drive and G Road Roundabout  
MESA COUNTY  
CONSTRUCTION PROJECT CODE NO. 23652  
SEC. 1, TOWNSHIP 1 SOUTH, RANGE 1 WEST, UTE PRINCIPAL MERIDIAN

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Horizon Drive and G Road Roundabout - 6/18/2024 7:50:51 AM

Print Date: 6/18/2024 7:50:51 AM

File Name: COVER PAGE.dwg

Horiz. Scale: AS SHOWN Vert. Scale: NA

Unit Information: City of GJ Unit Leader Initials: LF



333 WEST AVE, BLDG C  
Grand Junction, CO, 81501  
Phone: 970-244-1554

0000

### Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 3

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

KC

### As Constructed

No Revisions:

Revised:

Void:

### Contract Information

Contractor:

Resident Engineer:

Project Engineer:

PROJECT STARTED: \_\_\_/\_\_\_/\_\_\_ ACCEPTED: \_\_\_/\_\_\_/\_\_\_

Comments:

### Project No./Code

SHE M555-034

23652

Sheet Number 1

Oversight / NHS

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NATIONAL HIGHWAY SYSTEM?  NO  YES

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. SHE M555-034 Horizon Drive and G Road Roundabout MESA COUNTY CONSTRUCTION PROJECT CODE NO. 23652

SEC. 1, TOWNSHIP 1 SOUTH, RANGE 1 WEST, UTE PRINCIPAL MERIDIAN

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### DESCRIPTION OF PROJECT

CONSTRUCT A MODERN STYLE ROUNDABOUT AT THE FOUR WAY INTERSECTION OF HORIZON DRIVE AND G ROAD. THIS IS A INTERSECTION UPGRADE FUNDED PROJECT WHICH INCLUDES UNCLASSIFIED EXCAVATION, AGGREGATE BASE COURSE, HOT MIX ASPHALT, CONCRETE PAVEMENT, DRAINAGE PIPELINE INSTALLATION, CURB, GUTTER AND SIDEWALK.

A MANDATORY PRE-BID CONFERENCE WILL BE HELD ON XXXX XX, 20XX AT 10:00 AM AT THE MESA CONFERENCE ROOM LOCATED AT 606 SOUTH 9TH STREET (CDOT MAINTENANCE BUILDING), GRAND JUNCTION, COLORADO TO PRESENT A BRIEF OVERVIEW OF THE PROJECT AND TO ANSWER QUESTIONS FROM PROSPECTIVE BIDDERS.

### ROUNDABOUT DESIGN DATA:

CIRCULATORY LANE WIDTHS - 12' INSIDE / 16' OUTSIDE

DESIGN DIAMETER - 82'

DESIGN VEHICLE - AASHTO WB-67

DESIGN SPEED - 15 MPH

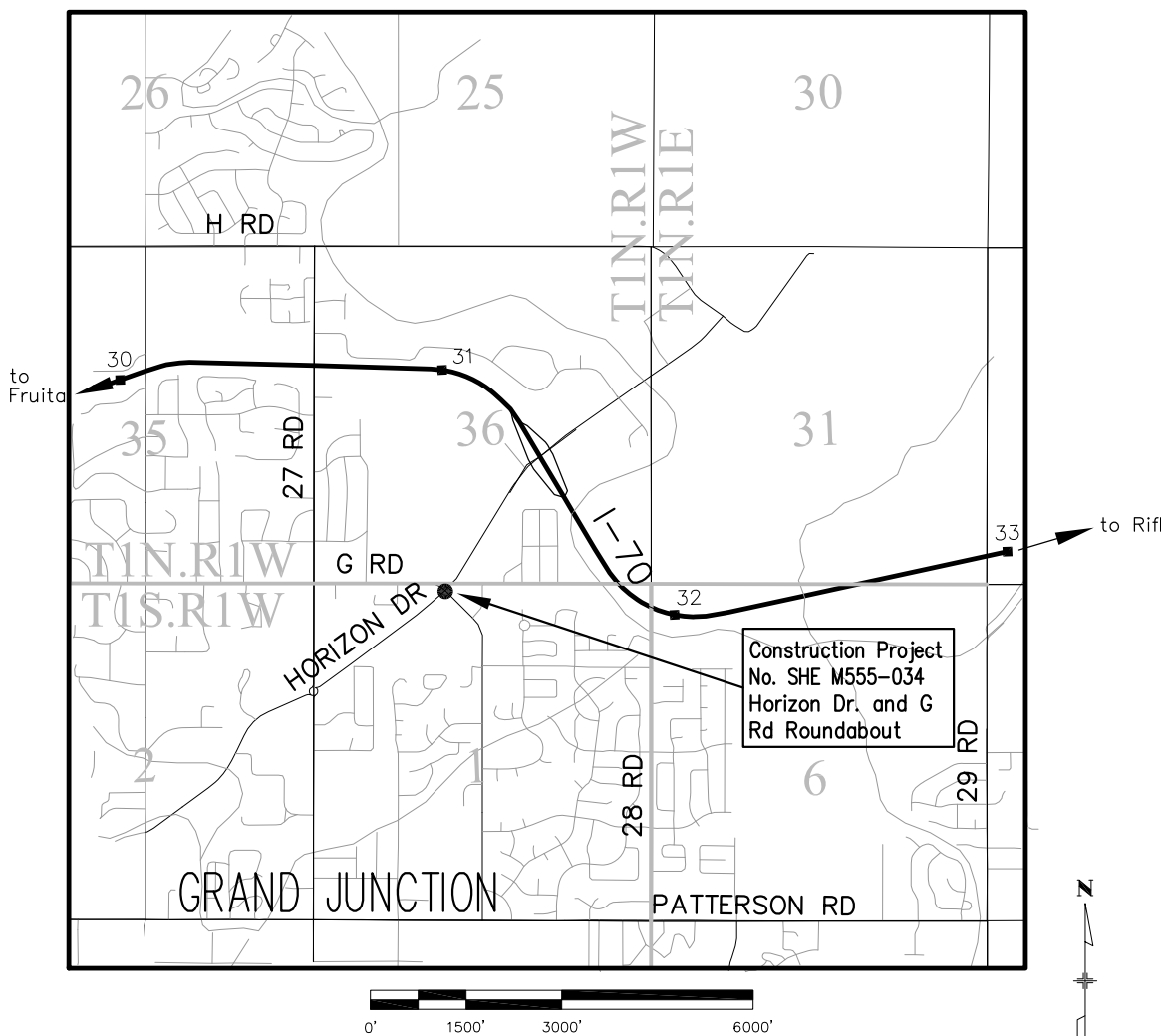
HORIZON DRIVE - MINOR ARTERIAL (A.D.T.=19890)

G ROAD - MAJOR COLLECTOR (A.D.T.=5291)

HORIZON DRIVE EXIT RADIUS - 450 FEET

G ROAD EXIT RADIUS - 400 FEET

ENTRY RADIUS - 85 FEET



PROJECT LOCATION MAP



Know what's below.  
Call before you dig.

Print Date: 6/18/2024 7:48:51 AM

File Name: Tittle Sheet.dwg

Horiz. Scale: AS SHOWN Vert. Scale: NA

Unit Information: City of GJ Unit Leader Initials: LF



333 WEST AVE, BLDG C  
Grand Junction, CO, 81501  
Phone: 970-244-1554

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### Sheet Revisions

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Colorado Department of Transportation



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

Region 3

KC

### As Constructed

No Revisions:

Revised:

Void:

### Contract Information

Contractor:

Resident Engineer:

Project Engineer:

PROJECT STARTED: \_\_\_/\_\_\_/\_\_\_ ACCEPTED: \_\_\_/\_\_\_/\_\_\_

Comments:

### Project No./Code

SHE M555-034

23652

Sheet Number 2

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\0DESIGN\Tittle Sheet.dwg, 6/18/2024 7:47:48 AM

Horizon Drive and G Road Roundabout - 6/18/2024 7:48:51 AM

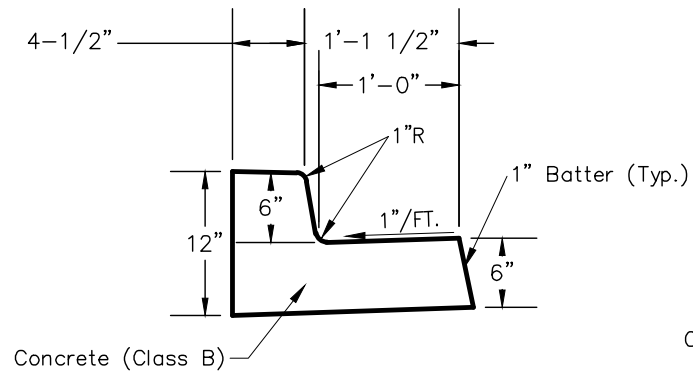




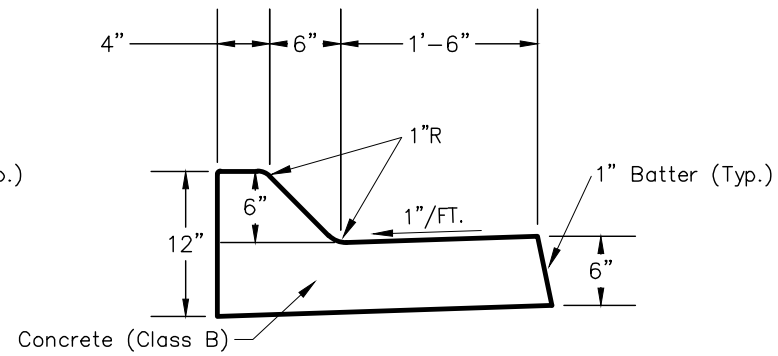
N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\DESIGN\Roadway Details.dwg, 6/18/2024 7:08:14 AM

**Notes:**

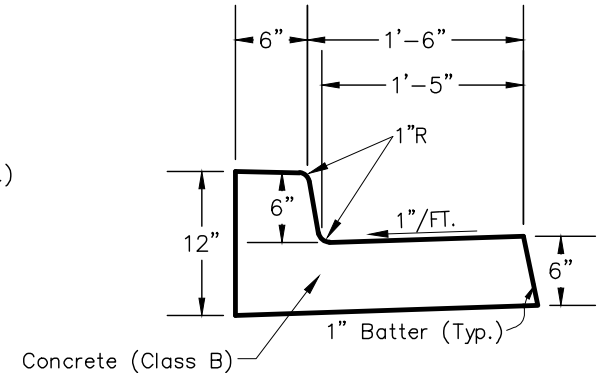
- Gutter Cross-Slope shall be 1/2" per ft. when draining away from curb and 1" per ft. when draining towards curb.
- Tie Bars between the concrete gutter and the concrete pavement shall be installed per Standard Plan M-412-1.
- Tie-bars shall be Grade 40, epoxy coated, and deformed. Bar size shall be as designated on the Standard Plan M-412-1.
- All Curb and Gutter shall be monolithic and shall not be Key-Way Type 4 Curbs.
- Where gutter is adjacent to Concrete Pavement, the gutter thickness shall match that of the adjacent Concrete Pavement. See General Notes in M&S Standards M-609-1 for more information.



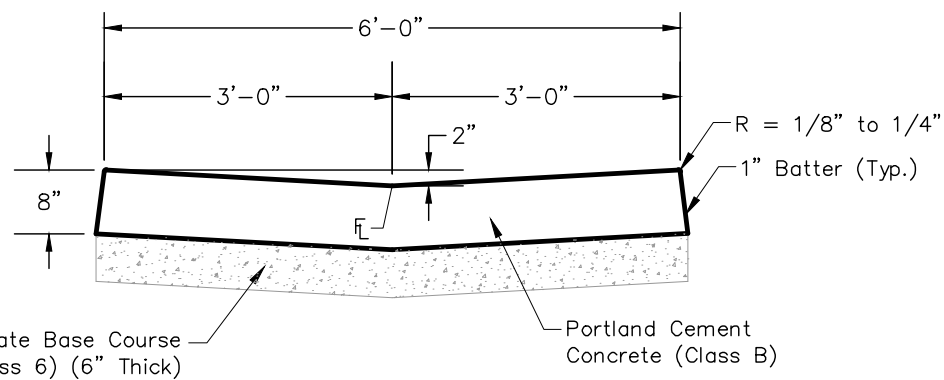
**CURB AND GUTTER TYPE 2  
(SECTION IB) (SPECIAL)  
(CATCH/SPILL GUTTER)**



**CURB AND GUTTER TYPE 2  
(SECTION IM) (SPECIAL)  
(MOUNTABLE)**



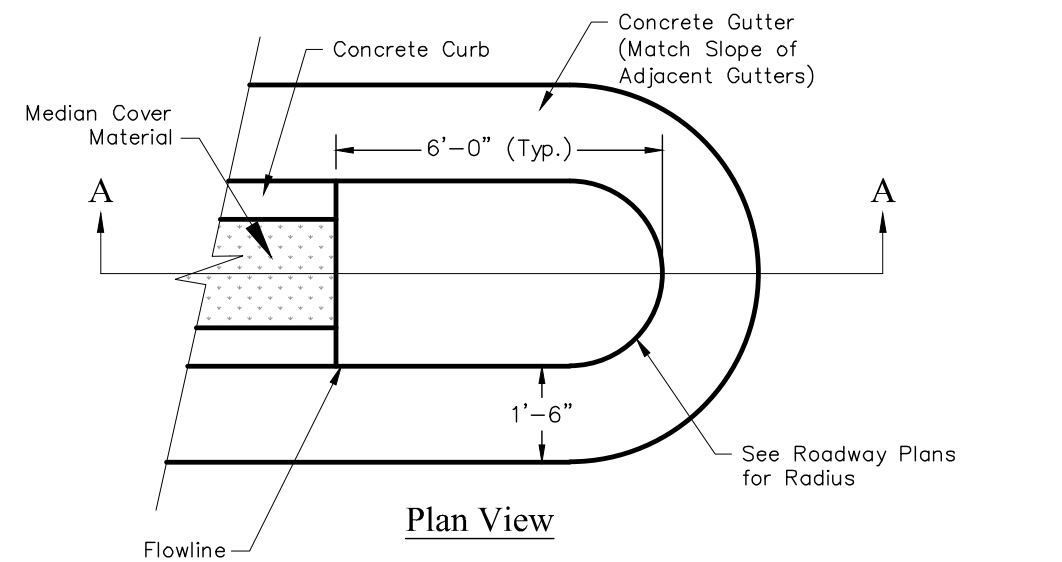
**CURB AND GUTTER TYPE 2  
(SECTION IIB) (SPECIAL)**



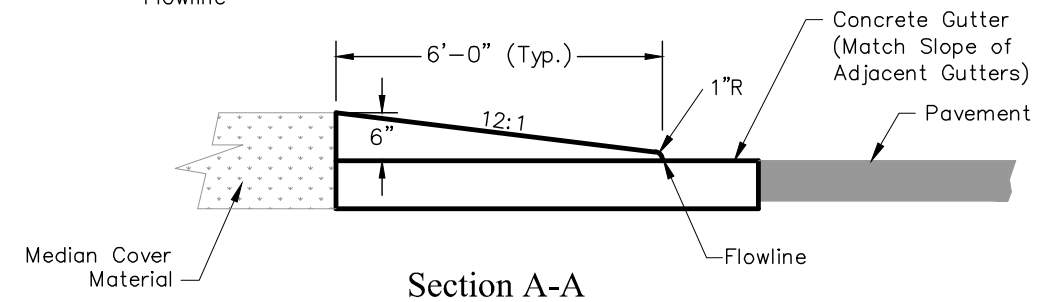
**GUTTER TYPE 2 (SPECIAL) & GUTTER TYPE 2 (6 FOOT) (FAST TRACK)**

**Notes:**

- Reason for Gutter Type 2 (Special) is that the concrete thickness is increased to 8 inches for this project.



**Plan View**

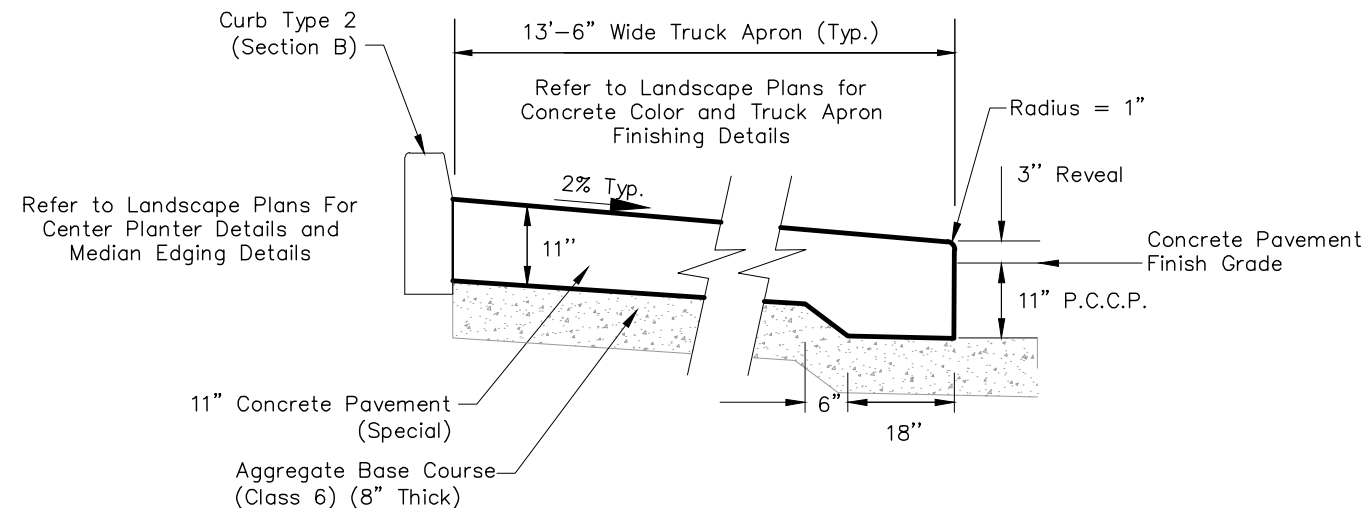


**Section A-A**

**MEDIAN ISLAND NOSE DETAIL**

**Notes:**

- Median Nose will be included in the cost of curb and gutter and is measured at flow-line.
- Thickness of curb and gutter section shall match concrete pavement thickness.



**TRUCK APRON DETAIL**

Print Date: 6/18/2024 7:08:14 AM
File Name: Roadway Details.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF GRAND JUNCTION</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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

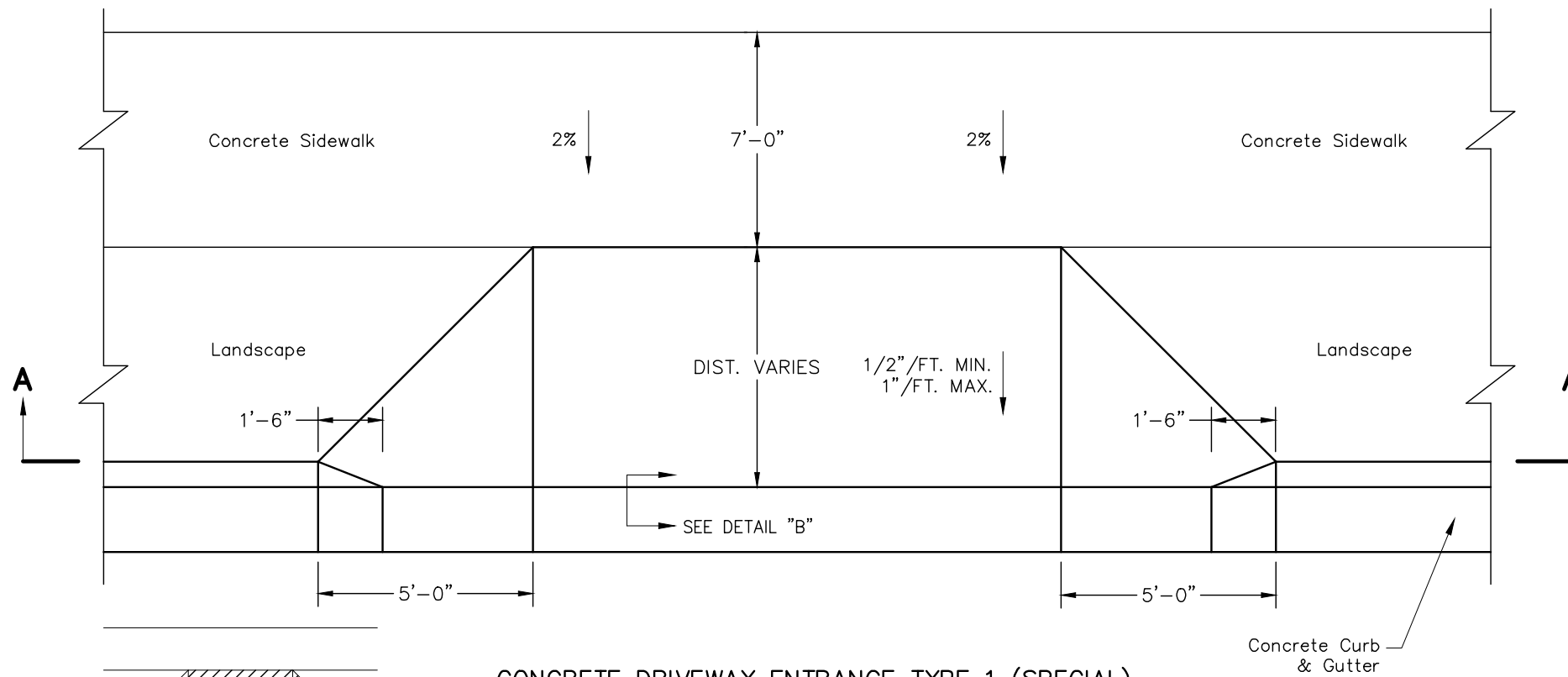
**Region 3**      **KC**

As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT	
ROADWAY DETAILS - 1	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: ROADWAYS	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 4

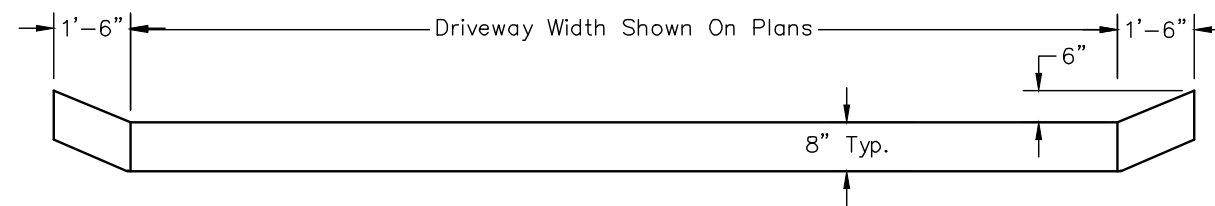
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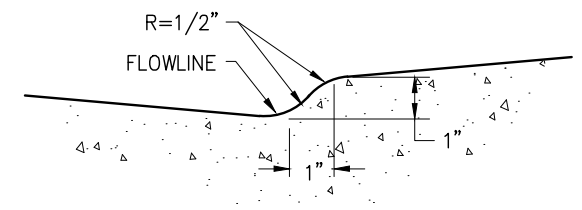
Pay Item: 412-00800 Concrete Pavement (8 Inch)

**CONCRETE DRIVEWAY ENTRANCE TYPE 1 (SPECIAL)**

Notes:  
 - Reason for Concrete Driveway Entrance Type 1 (Special) detail is that the concrete thickness is increased to 8 Inches for this project.



**SECTION A-A**



**DETAIL "B"**

Print Date: 6/18/2024 7:08:14 AM
File Name: Roadway Details.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF GRAND JUNCTION</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



606 South 9th Street  
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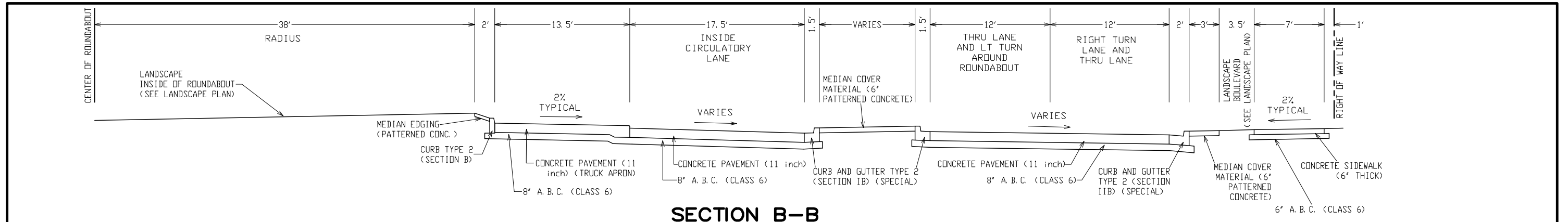
Region 3      KC

As Constructed
No Revisions:
Revised:
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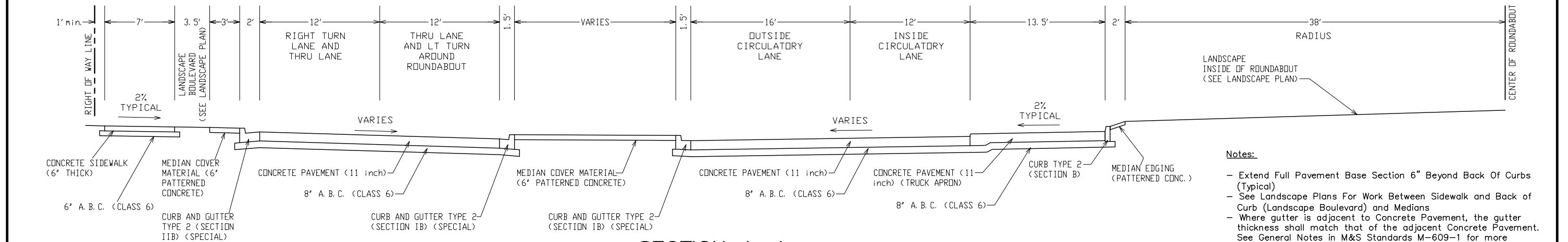
HORIZON DR AND G RD ROUNDABOUT	
ROADWAY DETAILS - 2	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: ROADWAY DETAILS	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 5

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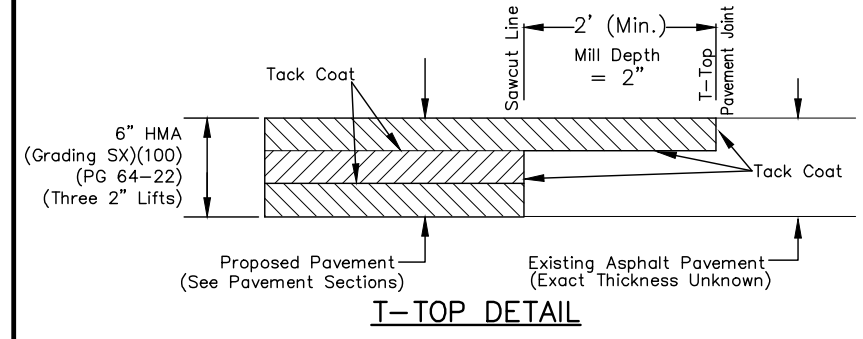


**SECTION B-B**



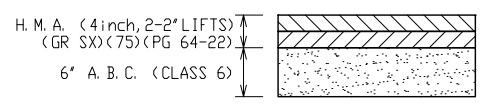
**SECTION A-A**

- Notes:**
- Extend Full Pavement Base Section 6" Beyond Back Of Curbs (Typical)
  - See Landscape Plans For Work Between Sidewalk and Back of Curb (Landscape Boulevard) and Medians
  - Where gutter is adjacent to Concrete Pavement, the gutter thickness shall match that of the adjacent Concrete Pavement. See General Notes in M&S Standards M-609-1 for more information.
  - Tie-bars shall be Grade 40, epoxy coated, and deformed. Bar size shall be as designated on the CDOT Standard Plan M-412-1.
  - Tie-bars between the concrete gutter and the concrete pavement shall be installed per CDOT Standard Plan M-412-1.



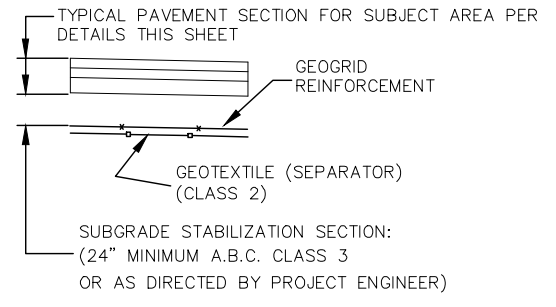
**T-TOP DETAIL**

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



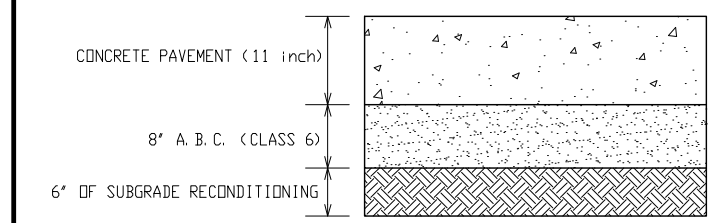
**DETOUR PAVEMENT SECTION**  
PAID AS "DETOUR" BY S.Y.

1. THIS DETOUR PAVEMENT SECTION WAS USED FOR BUDGET AND QUANTITY ESTIMATING REASONS ONLY. THE COST OF DETOUR REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE DETOUR PAY ITEM.
2. LIMITS OF PAYMENT SHALL BE TO THE EDGE OF DETOUR PAVEMENT.
3. MINIMUM LANE WIDTH SHALL BE 10- FEET WITH A MINIMUM 2- FOOT WIDE SHOULDER
4. SIDE SLOPES FOR DETOURS SHALL BE 3:1 SLOPES.

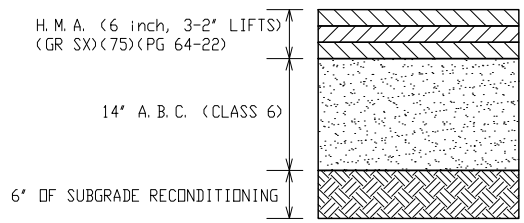


**SUBGRADE STABILIZATION**  
(REQUIRED IN SOFT SPOTS AS DIRECTED BY PROJECT ENGINEER)

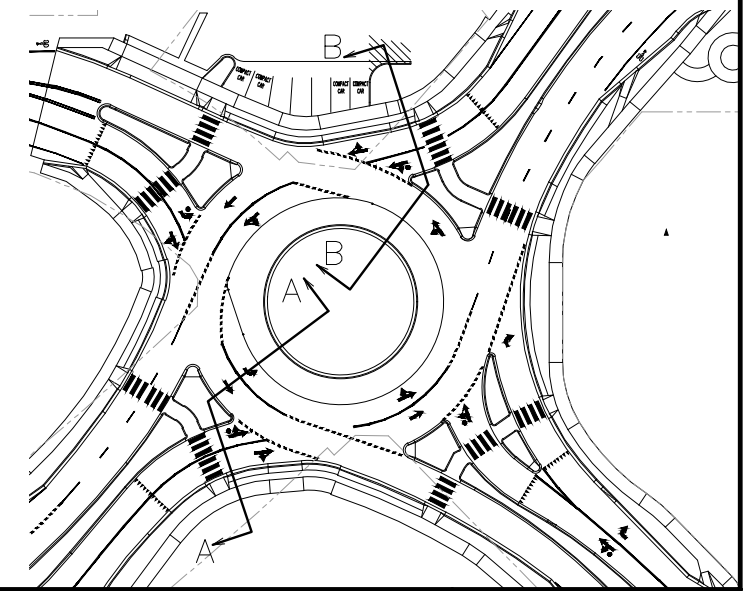
**Note:**  
- The Contractor shall account for up to 25% of the total roadway reconstruction areas (requiring base course and surfacing) requiring subgrade stabilization, as detailed in the Subgrade Stabilization detail, in coming up with his schedule. No adjustment in allowable working time will be considered if the amount of subgrade stabilization is less than 25% of the total roadway reconstruction areas. The work for subgrade stabilization will be paid for separately as Muck Excavation, Aggregate Base Course (Class 3), Geotextile (Separator) (Class 2), and Geogrid Reinforcement.



**ROUNDBOUT CONCRETE PAVEMENT SECTION**  
(SEE ROADWAY PLAN FOR EXTENTS OF THIS CONCRETE PAVEMENT DETAIL)



**ASPHALT PAVEMENT SECTION**  
(SEE ROADWAY PLAN FOR EXTENTS OF THIS ASPHALT PAVEMENT DETAIL)



Print Date: 6/18/2024 7:08:15 AM  
 File Name: TYPICAL SECTIONS.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
**CITY OF Grand Junction**  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 606 South 9th Street  
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 Phone: 970-683-6351 FAX: 970-683-6369  
**Region 3** KC

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**HORIZON DR AND G RD ROUNDBOUT**  
 TYPICAL SECTIONS - 1  
 Designer: JCS  
 Detailer: JCS  
 TYPICAL SECTIONS  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 6

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**CONSTRUCTION**

THE FOLLOWING SHALL BE FURNISHED WITH EACH HOT MIX PAVER:

- A. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
- B. SHORT SKI OR SHOE.
- C. TAUT STRING LINE (WIRE) SET TO GRADE.
- D. LASER CONTROL.

THE SUBSEQUENT LIFT OF HOT MIX ASPHALT SHALL NOT BE PLACED UNTIL THE PROCEEDING LIFT IS COMPLETED TO FULL WIDTH.

ASPHALT JOINTS SHALL FALL ON LINES, SHOULDERS LINES OR MEDIAN LINES, EXCEPT WHERE STATED IN THE PLANS.

WHEN MORE THAN ONE LIFT OF HOT MIX ASPHALT IS BEING PLACED, LONGITUDINAL JOINTS FORMED BY ADJACENT PASSES WITH THE PAVER IN A LIFT SHALL BE OFFSET BY A MINIMUM OF 8" BETWEEN LIFTS.

A TACK COAT IS REQUIRED PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS OF HMA. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE ROADWAY AS DIRECTED BY THE ENGINEER. CLEANING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK.

A 2 INCH BUTT JOINT SHALL BE PROVIDED WHERE NEW ASPHALT PAVEMENT TIES INTO EXISTING ASPHALT PAVEMENT AT ROAD APPROACHES AND DRIVEWAYS. ASPHALT DRIVEWAY TIE INS BEHIND CURB AND GUTTER OR SIDEWALK SHALL BE A MAXIMUM OF 8 PERCENT UNTIL EXISTING GROUND IS MET.

WHERE EXISTING ASPHALT PAVEMENT, CONCRETE PAVEMENT, OR CONCRETE SIDEWALK IS TO BE REMOVED, IT SHALL BE CUT FULL DEPTH TO A NEAT WORK LINE WITH A SAW OR CUTTING WHEEL AS APPROVED BY THE ENGINEER. CUT FACES SHALL NOT REMAIN OVERNIGHT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.

DEPTH OF MOISTURE – DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

- A. FULL DEPTH OF ALL EMBANKMENTS.
- B. BASES OF CUTS AND FILLS – 6 INCHES
- C. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION, AND WILL NOT BE PAID FOR SEPARATELY

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THEIR OWN EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.

STRUCTURE EXCAVATION, STRUCTURE BACKFILL, CONCRETE COLLAR, AND COUPLING BANDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PIPE.

THE TEMPORARY CONSTRUCTION EASEMENTS ARE LIMITED TO SPECIFIC CONSTRUCTION ITEMS AND THE AREA IS TO BE RETURNED TO EXISTING CONDITION AS SOON AS POSSIBLE. THE AREAS ARE NOT TO BE USED FOR STORAGE OR PARKING WHERE IT WOULD INTERFERE WITH BUSINESS OPERATIONS, ACCESS OR PARKING.

THE HORIZONTAL AND VERTICAL GEOMETRY FOR THE CURB, GUTTER AND SIDEWALK IS SHOWN TO THE LIP OF GUTTER UNLESS OTHERWISE NOTED ON THE PLANS.

A 5–FOOT (10:1 VERTICAL) TAPER SHALL BE USED ON ALL EXPOSED END OF CURB.

AGGREGATE BASE COURSE (CLASS 6) SHOULDER MATERIAL SHALL BE STABILIZED IMMEDIATELY UPON PLACEMENT.

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. APPLICATION SHALL BE AS DIRECTED BY THE ENGINEER. WATER AS A DUST PALLIATIVE AND ANY OTHER WETTING SHALL BE INCLUDED IN THE WORK AND WILL NOT BE PAID SEPARATELY.

WATER SOURCE USED FOR MOISTURE DENSITY CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE FREE OF EXCESSIVE SEDIMENTS OR OTHER CONTAMINANTS THAT MAY BE DETRIMENTAL TO EMBANKMENTS, SUB-BASES, AND BASE COURSE MATERIAL.

DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL KEEP ALL WORK EQUIPMENT AND MATERIALS WITHIN THE EASEMENT AND/OR RIGHT OF WAY LIMITS.

THE FOLLOWING CLEAR ZONE CRITERIA SHALL BE USED DURING THIS PROJECT: 10 FEET ON HORIZON DRIVE AND G ROAD.

SULFATE RESISTANT CONCRETE FOR THIS PROJECT SHALL BE CLASS 2 (TYPE I-II SULFATE RESISTANT CEMENT). WATER SOLUBLE SULFATE LEVELS WERE ENCOUNTERED IN THE SITE SOILS IN CONCENTRATIONS AS HIGH AS 0.5%.

ALL SLOPES WILL BE ROUGHENED AS DIRECTED BY THE ENGINEER. COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO THE WORK.

EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.

TRAVEL LANES ARE NOT SUBJECT TO SMOOTHNESS INCENTIVE/DISINCENTIVE PAYMENTS. ROADWAY SMOOTHNESS SHALL BE BASED ON THE STRAIGHTEDGE TESTING METHOD AS DESCRIBED IN THE STANDARD SPECIFICATIONS, SECTION 105.

THIS PROJECT WILL NOT BE SUBJECT TO QUALITY INCENTIVE PAYMENTS FOR ASPHALT QUALITY. THIS PROJECT WILL BE SUBJECT TO PRICE REDUCTIONS PER SECTION 105.05 OF THE STANDARD SPECIFICATIONS.

THIS PROJECT WILL NOT BE SUBJECT TO ASPHALT CEMENT COST ADJUSTMENT PAYMENTS FOR ASPHALT CEMENT.

FOR EXTENSION OF EXISTING PIPES, THE CONTRACTOR SHALL FIELD VERIFY ALL SIZES AND FLOW LINE ELEVATIONS PRIOR TO ORDERING MATERIALS. THE CONTRACTOR OR HIS SUBCONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER WHENEVER FIELD CONDITIONS OR EXISTING TERRAIN WOULD RESULT IN LESS THAN OPTIMAL INSTALLATION OF SAID ITEMS.

**CONSTRUCTION, (CONT.)**

THE CONTRACTOR SHALL BE REQUIRED TO FIELD VERIFY LENGTHS, DIAMETERS, ELEVATIONS, LOCATIONS, AND THICKNESS BEFORE ORDERING MATERIALS.

NO VERTICAL SLOPES SHALL BE LEFT OVERNIGHT UNPROTECTED. ALL UNPROTECTED VERTICAL SLOPES SHALL BE FLATTENED TO A 4:1 SIDE SLOPE PRIOR TO THE END OF THE WORK DAY, OR AS DIRECTED BY THE ENGINEER.

FINAL STRIPING WILL BEGIN AT A POINT THAT MATCHES THE ADJACENT STRIPING LOCATION AND SPACING.

PREFORMED PLASTIC PAVEMENT MARKING (INLAID) EDGING SHALL BE STRAIGHT AND UNIFORM, AND UNIFORMLY ADHERED TO THE PAVEMENT.

ACCEPTANCE OF CONCRETE PAVEMENT SHALL BE BASED ON COMPRESSIVE STRENGTH.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ADJUSTMENT OF ALL VALVE BOXES AND MANHOLES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY THE IMPACTED UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY WORK BEING ACCOMPLISHED.

THE CONTRACTOR WILL BE REQUIRED TO STAKE THE EASEMENT AREAS DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE PROJECT.

ANY EXISTING SIGNS OR SIGNS TO BE RESET THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE PROJECT.

MAGNESIUM CHLORIDE SOLUTION SHALL BE USED AS A SEAL COAT WHERE REQUIRED. LOCATIONS SHALL BE ORDERED AND DIRECTED BY THE ENGINEER.

THIS PROJECT IS DESIGNATED AS NON-SIGNIFICANT.

**UTILITIES**

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY USING EVERY REASONABLE MEANS POSSIBLE, INCLUDING FIELD LOCATION OF THE UTILITY. REPAIR OF DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DOCUMENT THE CONDITION OF EXISTING UTILITIES (VISIBLE FACILITIES) WITH THE ENGINEER AND UTILITY REPRESENTATIVES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

EXISTING UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION, (ASCE STANDARD QUALITY LEVEL B).

UTILITY WORK NOT COMPLETED PRIOR TO THE START OF THE CONTRACTOR'S OPERATIONS WILL REQUIRE COORDINATION WITH CONTRACT WORK IN ACCORDANCE WITH SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT, AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.

THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.

LOCATION AND NOTIFICATION OF BOTH UNCC MEMBER AND NON-MEMBER UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.

IT IS SUGGESTED THAT THE CONTRACTOR INITIATE A REQUEST TO XCEL ENERGY, CENTURYLINK AND CHARTER COMMUNICATIONS FOR ANY CONSTRUCTION RELATED TO TEMPORARY ELECTRICAL POWER AND TELEPHONE SERVICE AS SOON AS POSSIBLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AT PIPES, CULVERTS, CBC'S, AND OTHER AREAS OF EXCAVATION AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED.

POTHOLING OF AN AREA SHALL TAKE PLACE 10 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS IN THAT AREA.

THE CONTRACTOR SHALL:

- A. NOTIFY UTE WATER, CITY OF GRAND JUNCTION WATER AND SEWER, AND ALL CUSTOMERS AFFECTED BY OUTAGE OF WATER DURING CONSTRUCTION AT LEAST 48 HOURS PRIOR TO DISRUPTION OF SERVICE.
- B. NOTIFY GRAND JUNCTION POLICE DEPARTMENT, GRAND JUNCTION FIRE DEPARTMENT, GRAND JUNCTION DEPARTMENT OF PUBLIC WORKS, MESA COUNTY SHERIFF'S OFFICE, MESA COUNTY PUBLIC WORKS, COLORADO STATE PATROL, UTE WATER CONSERVANCY DISTRICT, UNITED STATES POSTAL SERVICE, GRAND VALLEY TRANSIT, AND FIRST STUDENT BUS COMPANY OF ALL STREET CLOSINGS AND EXISTING FIRE HYDRANTS TO BE TAKEN OUT OF SERVICE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION AND UPDATED ON A BI-WEEKLY BASIS.

WHEN EXCAVATING BELOW EXISTING WATER OR SANITARY SEWER LINES THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, THE METHOD BY WHICH EXISTING WATER OR SANITARY SEWER LINES SHALL BE PROTECTED AND SUPPORTED.

THE STATION POINT AND ELEVATION SHOWN ON THE PLANS FOR THE STANDARD STORM INLET AND MEDIAN INLET IS LOCATED AT THE CENTER OF THE INLET BOX. THE STATION POINT OF ALL OTHER DRAINAGE, IRRIGATION, AND SANITARY SEWER STRUCTURES IS LOCATED AT THE CENTER POINT OF THE STRUCTURE AS WELL.

**ESTIMATED QUANTITIES**

FOR PRELIMINARY PLAN QUANTITIES, THE FOLLOWING RATES OF APPLICATION WERE USED:

- TACK COAT DILUTED EMULSIFIED ASPHALT (SLOW SETTING)..... @ 0.1 GAL/SQ YD (DILUTED)
- HOT MIX ASPHALT (GRADING SX)..... @ 110 LBS/SQ YD/INCH
- AGGREGATE BASE COURSE (CLASS 1)..... @ 133 LBS/CU FT.
- AGGREGATE BASE COURSE (CLASS 3)..... @ 133 LBS/CU FT.
- AGGREGATE BASE COURSE (CLASS 6)..... @ 133 LBS/CU FT.

DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

**ESTIMATED QUANTITIES, (CONT.)**

IT IS ESTIMATED THAT THE FOLLOWING SHALL BE REQUIRED FOR THIS PROJECT, AS DIRECTED BY THE PROJECT ENGINEER FOR MISCELLANEOUS WORK:

- (201-00000) CLEARING AND GRUBBING – 1 LS
- (203-01500) BLADING – 40 HOURS
- (203-01597) POTHOLING – 10 HOURS
- (203-02330) LABORER – 100 HOURS
- (209-00600) DUST PALLIATIVE (MAGNESIUM CHLORIDE) – 1000 GALLONS
- (250-00010) ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT – 1 LS
- (250-00050) MONITORING TECHNICIAN – 20 HOURS
- (250-00110) HEALTH AND SAFETY OFFICER – 20 HOURS
- (250-00200) MATERIAL HANDLING (STOCKPILE) – 50 CY
- (250-00220) HAZARDOUS WASTE DISPOSAL – 50 CY
- (620-00002) FIELD OFFICE (CLASS 2) – 1 EA
- (620-00012) FIELD LABORATORY (CLASS 2) – 1 EA
- (620-00020) SANITARY FACILITY – 1 EA
- (625-00000) CONSTRUCTION SURVEYING – 1 LS
- (625-00001) CONSTRUCTION SURVEYING (HOURLY) – 10 HOURS
- (626-00000) MOBILIZATION – 1 LS
- (626-01000) PUBLIC INFORMATION SERVICES – 1 LS

PROOFROLLING WILL BE REQUIRED FOR THIS PROJECT AND WILL BE INCLUDED IN THE COST OF THE WORK.

CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL TREES, LOGS, LIMBS, BRUSH, BUSHES, GROUND COVER, SOD, LANDSCAPING ITEMS, AND TRASH, ETC. AS SHOWN IN THE PLANS OR REQUIRED BY THE WORK TO AN OFF SITE LOCATION, UNLESS SHOWN ON THE PLANS TO BE PROTECTED. THIS WORK WILL BE PAID FOR AS 201-00000 CLEARING AND GRUBBING.

THE MOTOR GRADER USED FOR WORK TO BE PAID AS 203-01500 BLADING HOURS SHALL BE A 130 – 140 HORSEPOWER RATING.

AGGREGATE BASE COURSE (CL. 6) SHOWN TO BE PLACED UNDER CONCRETE CURBS, GUTTERS, SIDEWALKS, DRAINAGE PANS, INTERSECTION FILLETS, DRIVEWAY SECTIONS, AND CURB RAMPS IS DESIGNATED AS "AGGREGATE BASE COURSE (CLASS 6)" AND WILL BE MEASURED AND PAID FOR SEPARATELY.

ASPHALT MILLINGS MAY BE SUBSTITUTED FOR ABC CLASS 6 AS APPROVED BY PROJECT ENGINEER. ANY USE OF ASPHALT MILLINGS THAT DOES NOT MEET THE APPROVED REQUIREMENTS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

**ENVIRONMENTAL**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DEWATERING IF NEEDED AT NO ADDITIONAL COST TO THE PROJECT. DEWATERING METHODS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION DEWATERING PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT. THE PERMIT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

SEE STORMWATER MANAGEMENT PLAN FOR EROSION CONTROL MEASURES TO BE USED DURING CONSTRUCTION. WHENEVER SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD, THE ROAD SHALL BE CLEANED AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL NOT BE ALLOWED. STREET SWEEPING METHODS/OPERATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF SWEEPING OPERATIONS. OPEN STYLE MECHANICAL BROOM WILL NOT BE ALLOWED FOR STREET SWEEPING.

ALL STAGING AREAS AND EQUIPMENT SHALL BE KEPT OUTSIDE WETLAND AND RIPARIAN AREAS AND SHALL BE LOCATED AT LEAST 100 FEET FROM ANY WATERCOURSE.

THE CONTRACTOR SHALL ADDRESS LOCAL DRAINAGE DURING EACH PHASE OF CONSTRUCTION. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.

STORM WATER MANAGEMENT WILL REQUIRE MULTIPLE SEEDING AND MULCHING OPERATIONS. THE COST FOR SEEDING IN MULTIPLE OPERATIONS SHALL BE INCLUDED IN THE COST OF SEEDING AND MULCHING.

ANY DEWATERING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE PROJECT.

DURING ALL SUBSURFACE ACTIVITIES, WORKERS SHALL BE ALERT FOR VISUAL AND OLFACTORY SIGNS OF CONTAMINATION. IF CONTAMINATION IS ENCOUNTERED, WORK SHALL STOP AND PROCEDURES ESTABLISHED IN THE CDDT 250 SPEC SHALL BE FOLLOWED. ANY CONTAMINATED SOILS OR LANDFILL MATERIAL SHALL BE PROPERLY HANDLED AND SAMPLED PRIOR TO DISPOSAL.

KEEP CONSTRUCTION CONCENTRATED TO AS SMALL OF AN AREA AS POSSIBLE AND ONLY USE PREVIOUSLY DISTURBED AREAS FOR STOCKPILING MATERIALS, PARKING, AND/OR STAGING.

STORMWATER CONSTRUCTION PERMIT IS REQUIRED. THE CITY WILL ACQUIRE THE PERMIT AND TRANSFER THE PERMIT TO THE CONTRACTOR.

IF VEGETATION REMOVAL CONSISTING OF LARGE TREES OR SHRUBS OCCURS BETWEEN APRIL 1–AUG 31, SPEC 240 CONTRACTOR'S BIOLOGIST SHALL BE INCLUDED TO PROTECT MIGRATORY BIRD SPECIES.

**PROJECT UTILITY CONTACTS**

CHARTER COMMUNICATIONS	MARK KOSTELECKY	970-245-8750
CITY OF GRAND JUNCTION (SANITATION)	LEE COOPER	970-256-4155
CITY OF GRAND JUNCTION (PERSIGO SEWER SYSTEMS)	LARRY BROWN	970-256-4168
CITY OF GRAND JUNCTION (FIBER OPTIC)	SCOTT HOCKINS	970-244-1540
CITY OF GRAND JUNCTION (IRRIGATION SPRINKLERS)	RANDY COLEMAN	970-254-3821
CITY OF GRAND JUNCTION (TRAFFIC/SIGNALS)	TOM LANAM	970-244-1573
CITY OF GRAND JUNCTION (STORM DRAINAGE)	BILL UBERSOX	970-640-2982
CENTURY LINK COMMUNICATIONS	CHRIS JOHNSON	970-244-4311
UTE WATER	JUSTIN BATES	970-242-7491
XCEL ENERGY (GAS)	SARAH DARRICAU	970-244-2656
XCEL ENERGY (ELECTRIC)	BRENDA BOES	970-244-2664

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Unit Information: City of GJ Unit Leader Initials: LF		 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554			 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369		Revised:		Designer: JCS		Structure Numbers					
									Region 3		KC		Detailer: JCS		Sheet Number 7	
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Index			Contract Item No.	Contract Item	Unit	Project Total	
Book	Page	Sheet				Plan	As Constr.
			201-00000	Clearing and Grubbing	LS	1	
			202-00010	Removal of Tree	EA	1	
			202-00019	Removal of Inlet	EA	5	
			202-00021	Removal of Manhole	EA	2	
			202-00035	Removal of Pipe	LF	175	
			202-00090	Removal of Delineator	EA	1	
			202-00190	Removal of Concrete Median Cover Material	SY	89	
			202-00200	Removal of Sidewalk	SY	424	
			202-00201	Removal of Curb	LF	555	
			202-00202	Removal of Gutter	LF	36	
			202-00203	Removal of Curb and Gutter	LF	855	
			202-00204	Removal of Curb, Gutter and Sidewalk	LF	1009	
			202-00206	Removal of Concrete Curb Ramp	SY	32	
			202-00210	Removal of Concrete Pavement	SY	8	
			202-00220	Removal of Asphalt Mat	SY	730	
			202-00240	Removal of Asphalt Mat (Planing)	SY	6921	
			202-00250	Removal of Pavement Marking	SF	846	
			202-00700	Removal of Light Standard	EA	2	
			202-00705	Removal of Light Standard Foundation	EA	2	
			202-00827	Removal of Pull Box	EA	7	
			202-00840	Removal of Traffic Signal Pole	EA	4	
			202-00848	Removal of Traffic Signal Controller and Cabinet	EA	1	
			203-00010	Unclassified Excavation (Complete In Place)	CY	3662	
			203-00100	Muck Excavation	CY	1103	
			203-01597	Potholing	hour	10	
			206-00100	Structure Backfill (Class 1)	CY	15	
			207-00205	Topsoil	CY	376	
			207-00210	Stockpile Topsoil	CY	376	
			208-00002	Erosion Log (12 inch)	LF	260	
			208-00035	Aggregate Bag	LF	50	
			208-00046	Prefabricated Concrete Washout Structure (Type 1)	EA	1	
			208-00054	Storm Drain Inlet Protection (Type II)	EA	11	
			208-00075	Prefabricated Vehicle Tracking Pad	EA	4	
			208-00103	Removal and Disposal of Sediment (Labor)	hour	20	
			208-00105	Removal and Disposal of Sediment (Equipment)	hour	20	
			208-00106	Sweeping (Sediment Removal)	hour	60	
			208-00107	Removal of Trash	hour	20	
			208-00207	Erosion Control Management (ECM)	DAY	60	
			208-00300	Temporary Berms	LF	400	
			209-00600	Dust Palliative (Magnesium Chloride)	GAL	1000	
			210-00810	Reset Ground Sign	EA	14	
			210-02510	Relay Sprinkler System	LS	1	
			210-04010	Adjust Manhole	EA	7	
			210-04015	Modify Manhole	EA	1	

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Book	Page	Sheet				Plan	As Constr.
			210-04020	Modify Inlet	EA	1	
			210-04050	Adjust Valve Box	EA	2	
			212-00706	Seeding (Native) Drill	AC	0.26	
			212-00050	Sod	SF	60	
			213-00065	Mulching (Weed Free Straw)	AC	0.26	
			213-00061	Mulch Tackifier	LB	52	
			213-00440	Metal Landscape Border (1/8 x 4 Inch)	LF	946	
			213-00700	Landscape Boulder (Small 3'x2'x2')	EA	91	
			213-00705	Landscape Boulder (Large, 3'x4'x2')	EA	1	
			213-00705	Metal Plants (Special)	EA	12	
			214-00000	Landscape Maintenance	LS	1	
			214-00215	Deciduous Tree (1.5 Inch Caliper)	EA	1	
			214-00350	Deciduous Shrub (5 Gallon Container)	EA	27	
			214-00506	Evergreen Tree (6 Foot) (Ball and Burlap)	EA	2	
			214-00650	Evergreen Shrub (5 Gallon Container)	EA	10	
			214-00910	Perennials (1 Gallon Container)	EA	176	
			240-00015	Wildlife Biologist	HOUR	40	
			250-00224	Hazardous Waster Disposal (Radioactive)	CY	35	
			304-03000	Aggregate Base Course (Class 3)	TON	1980	
			304-06000	Aggregate Base Course (Class 6)	TON	3856	
			306-01000	Reconditioning	SY	7468	
			403-00721	Hot Mix Asphalt (Patching) (Asphalt)	SY	20	
			403-34741	Hot Mix Asphalt (Grading SX) (75) (PG 64-22)	TON	147	
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	80	
			412-00600	Concrete Pavement (6 Inch)	SY	138	
			412-00800	Concrete Pavement (8 Inch)	SY	80	
			412-01100	Concrete Pavement (11 Inch)	SY	5707	
			412-01105	Concrete Pavement (11 Inch) (Special)	SY	475	
			412-01120	Concrete Pavement (11 Inch) (Fast Track)	SY	284	
			420-00133	Geotextile (Separator) (Class 2)	SY	1650	
			506-01020	Geogrid Reinforcement	SY	1650	
			603-50012	12 Inch Plastic Pipe	LF	264	
			604-19005	Inlet Special (5 Foot)	EA	2	
			604-19010	Inlet Special (10 Foot)	EA	2	
			604-30005	Manhole Slab Base (5 Foot)	EA	2	
			604-30010	Manhole Slab Base (10 Foot)	EA	3	
			604-83108	8 Inch Plastic Pipe Sewer (Polyvinyl Chloride)	LF	42	
			608-00000	Concrete Sidewalk	SY	1004	
			608-00010	Concrete Curb Ramp	SY	139	
			608-00015	Detectable Warnings	SF	316	
			609-20010	Curb Type 2 (Section B)	LF	610	
			609-21023	Curb and Gutter Type 2 (Section II-B) (Special)	LF	1436	

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**CITY OF Grand Junction**  
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Book	Page	Sheet				Plan	As Constr.
			609-21110	Curb and Gutter Type 2 (Section I-B) (Special)	LF	2007	
			610-00026	Median Cover Material (6 Inch Patterned Concrete)	SF	9023	
			610-00100	Median Edging (Pattern Concrete)	LF	445	
			612-00041	Delineator (Flexible) (Type I)	EA	1	
			613-01200	2 Inch Electrical Conduit (Plastic)	LF	2770	
			613-01201	2 Inch Electrical Conduit (Plastic) (Special)	LF	1157	
			613-01201	3/4 Inch Electrical Conduit (Plastic) (Special)	LF	100	
			613-07002	Type Two Pull Box	EA	35	
			613-07003	Type Three Pull Box	EA	3	
			613-10000	Wiring	LS	1	
			613-30001	Light Standard and Luminaire Single Post Top (Pedestrian)	EA	8	
			613-30002	Light Standard and Luminaire Dual Head (Pedestrian)	EA	8	
			613-40012	Light Standard Foundation Special	EA	16	
			613-50106	Lighting Control Center (Special)	EA	1	
			614-00011	Sign Panel (Class I)	SF	454.4	
			614-00012	Sign Panel (Class II)	SF	48	
			614-01503	Steel Sign Support (2-inch Round)(Post and Socket)	EA	44	
			614-01573	Steel Sign Support (2-1/2 Inch Round NP-40)(Post & Slipbase)	EA	17	
			614-80003	Rectangular Rapid Flashing Beacon	EA	17	
			614-84000	Traffic Signal Pedestal Pole Steel	EA	1	
			620-00002	Field Office (Class 2)	EA	1	
			620-00012	Field Laboratory (Class 2)	EA	1	
			620-00020	Sanitary Facility	EA	1	
			621-00450	Detour Pavement	SY	1700	
			623-00162	Drip Emitter Tubing	LF	1007	
			623-00164	Drip Emitter	EA	452	
			623-00184	1/2 Inch Flush Unit	EA	55	
			623-00600	1-1/2 Inch Plastic Pipe	LF	1420	
			623-00601	1 Inch Plastic Pipe	LF	1343	
			623-00604	4 Inch Plastic Pipe (Irrigation/Sleeve)	LF	240	
			623-00606	6 Inch Plastic Pipe (Irrigation/Sleeve)	LF	370	
			623-01708	1 Inch Backflow Preventor	EA	1	
			623-01808	1 Inch Pressure Reducing Valve	EA	1	
			623-01908	1 Inch Strainer	EA	1	
			623-02006	3/4 Inch Drain Valve	EA	1	
			623-03108	1 Inch Automatic Control Valve	EA	5	
			623-03112	1-1/2 Inch Automatic Control Valve	EA	1	
			623-04000	2-wire Control, including decoders, grounding (Special)	LS	1	
			623-04002	Power Source Wire	LF	130	
			623-04006	3/4 Inch Quick Coupler Valve	EA	5	
			623-04520	1-1/2 Inch Ball Valve (Special)	EA	5	
			623-06900	Valve Box	EA	5	

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Index			Contract Item No.	Contract Item	Unit	Project Total	
Book	Page	Sheet				Plan	As Constr.
			623-07601	1 Inch Flow Sensor (Special)	EA	1	
			623-08148	60 Station Automatic Controller (Special)	EA	1	
			623-09900	Sprinkler System	LS	1	
			625-00000	Construction Surveying	LS	1	
			626-00000	Mobilization	LS	1	
			626-01000	Public Information Services	LS	1	
			627-00013	Pavement Marking Paint (High Build)	GAL	1	
			627-00008	Modified Epoxy Pavement Marking	GAL	11	
			627-02010	Preformed Plastic Pavement Marking (Type II)	SF	973	
			627-30407	Preformed Thermoplastic Pavement Marking (Word-Symbol) (Special)	SF	776	
			627-30411	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line) (Special)	SF	1048	
			630-00000	Flagging	DAYS	90	
			630-00007	Traffic Control Inspection	DAYS	30	
			630-00012	Traffic Control Management	DAYS	80	
			630-80336	Barricade (Type 3 M-B) (Temporary)	EA	12	
			630-80341	Construction Traffic Sign (Panel Size A)	EA	126	
			630-80342	Construction Traffic Sign (Panel Size B)	EA	44	
			630-80343	Construction Traffic Sign (Panel Size C)	EA	8	
			630-80344	Construction Sign Panel (Special)	SF	112	
			630-80355	Portable Message Sign Panel	EA	4	
			630-80357	Advance Warning Flashing or Sequencing Arrow Panel (B Type)	EA	5	
			630-80360	Drum Channelizing Device	EA	140	
			630-80364	Drum Channelizing Device (With Light) (Steady)	EA	20	
			630-80370	Barrier (Temporary)	LF	200	
			630-80380	Traffic Cone	EA	20	
			630-80390	Channelizing Device (Special)	EA	90	
			630-85010	Impact Attenuator (Temporary)	EA	2	
			632-00000	Night Work Lighting	DAY	30	
			700-70023	F/A On The Job Trainee	HOUR	640	
			700-70025	F/A Quality Incentive Payment	FA	5000	
			700-70018	F/A Roadway Smoothness Incentive	FA	1000	
			700-70019	F/A Asphalt Cement Cost Adjustment	FA	2000	
			700-70016	F/A Fuel Cost Adjustment	FA	2500	
			700-70380	F/A Erosion Control	FA	2500	
			700-70111	F/A Project First Program	FA	1000	
			700-70013	F/A Concrete Pavement Incentive	FA	50000	
			700-70010	F/A Minor Contract Revisions	FA	115600	

Print Date: 11/14/2024 12:07:58 PM			As Constructed No Revisions: Revised: Void:	HORIZON DR AND G RD ROUNDABOUT SUMMARY OF APPROXIMATE QUANTITIES - 4 Designer: JCS Detailer: JCS		Project No./Code SHE M555-034 23652 Sheet Number 11		
File Name: SUMMARY OF APPROXIMATE QUANTITIES.dwg							Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369	SUMMARY OF APPROXIMATE QUANTITIES Subset Sheets: X of X
Horiz. Scale: AS SHOWN Vert. Scale: NA							Region 3 KC	
Unit Information: City of GJ Unit Leader Initials: LF								


333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

### SUMMARY OF EARTHWORK QUANTITIES

INDEX				PROJECT TOTAL	
Book	Page	Sheet		CU. YD.	As Const.
			<b>203-00010 UNCLASSIFIED EXCAVATION (CIP)</b>		
			ON SITE (QUANTITY CALCULATED FROM CIVIL3D - TIN SUBTRACTION)		
			UNCLASSIFIED EXCAVATION		
			820		
			4359		
			1400		
			<b>TOTAL FOR PAY QUANTITIES</b>		
			<b>3779</b>		
			<b>EMBANKMENT MATERIAL (CIP) (FOR INFORMATION ONLY)</b>		
			QUANTITY CALCULATED FROM CIVIL3D - TIN SUBTRACTION		
			EMBANKMENT		
			920		
			<b>TOTAL</b>		
			<b>920</b>		

INDEX			<b><u>EARTHWORK QUANTITIES BALANCE</u></b> <b><u>(FOR INFORMATION ONLY)</u></b>	PROJECT TOTAL	
Book	Page	Sheet		CU. YD.	As Const.
			Total Unclassified Excavation		3779
			Total Embankment (net)		920
			EMBANKMENT TIMES COMPACTION FACTOR 1.15		1058
			Excess Material leftover (Material to be hauled away from site by Contractor)		2721


Print Date: 6/18/2024 7:08:22 AM  
 File Name: SUMMARY OF EARTHWORK QUANTITIES.dwg  
 Horiz. Scale: AS SHOWN      Vert. Scale: NA  
 Unit Information: City of GJ      Unit Leader Initials: LF



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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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


Region 3      KC

As Constructed	HORIZON DR AND G RD ROUNDABOUT SUMMARY OF EARTHWORK QUANTITIES - 1		Project No./Code
No Revisions:			SHE M555-034
Revised:	Designer: JCS	Structure Numbers	23652
Void:	Detailer: JCS	Sheet Subset: SUMMARY OF EARTHWORK QUANTITIES	Sheet Number 12
	Subset Sheets:	X of X	


TABULATION OF REMOVALS (Section #1)

STATION	(202-00010) REMOVAL OF TREE		(202-00019) REMOVAL OF INLET		(202-00021) REMOVAL OF MANHOLE		(202-) (OPEN) REMOVAL		(202-) (OPEN) REMOVAL		(202-) (OPEN) REMOVAL		(202-) (OPEN) REMOVAL		(202-00035) REMOVAL OF PIPE		(202-) (OPEN) REMOVAL		(202-00090) REMOVAL OF DELINEATOR		(202-) (OPEN) REMOVAL		(202-00190) REMOVAL OF CONCRETE MEDIAN COVER MATERIAL		(202-) (OPEN) REMOVAL		(202-00200) REMOVAL OF SIDEWALK		(202-00201) REMOVAL OF CURB		(202-00202) REMOVAL OF GUTTER		COMMENTS
	EA		EA		EA		UNIT		UNIT		UNIT		EA		LF		UNIT		EA		UNIT		SY		UNIT		SY		LF		LF		
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	
<b>HORIZON DR</b>																																	
58+89, 48' LT TO 60+86, 59' LT																																	
61+79, 69' LT																																	
61+63, 66' LT TO 61+88, 44' LT																																	
61+86 TO 63+00																																	
61+86 TO 63+00																																	
61+90, 4' RT																																	
61+87, 69' LT TO 62+60, 62' LT																																	
62+29, 46' LT TO 62+29 67' LT																																	
59+20, 48' RT TO 61+17, 69' RT																																	
61+78, 63' RT TO 61+98, 42' RT																																	
62+92, 49' RT TO 63+00, 42' RT																																	
<b>G Road</b>																																	
67+43, 34' LT																																	
67+08, 54' LT TO 67+39, 55' LT																																	
67+06, 35' LT TO 67+48, 54' LT																																	
<b>HORIZON DR</b>																																	
60+96, 18' LT TO 62+03, 38' LT																																	
62+03, 38' LT																																	
<b>27 1/2 ROAD</b>																																	
68+88, 9' RT																																	
68+79, 48' LT																																	
<b>HORIZON DR</b>																																	
62+02, 6' RT																																	
62+02, 6' RT TO 62+05, 35' RT																																	
62+05, 35' RT																																	
62+05, 35' RT TO 61+95, 65' RT																																	
<b>27 1/2 ROAD</b>																																	
69+11, 20' RT																																	
<b>HORIZON DR</b>																																	
63+00, 3' RT TO 63+78, 4' RT																																	
63+00 TO 64+40																																	
63+00, 7' RT TO 63+78 8' RT																																	
63+00, 50' RT TO 63+11, 50' RT																																	
<b>PROJECT TOTAL</b>																																	

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Print Date: 6/18/2024 7:08:24 AM  
 File Name: TABULATION OF REMOVALS.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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 Grand Junction, CO, 81501  
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 Region 3 KC


As Constructed  
 No Revisions:  
 Revised:  
 Void:  
 HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF REMOVALS -  
 1  
 Designer: JCS  
 Detailer: JCS  
 Structure Numbers  
 Subset Sheets: X of X  
 TABULATION OF REMOVALS

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 13


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**TABULATION OF REMOVALS (Section #2)**

STATION	(202-00203) REMOVAL OF CURB AND GUTTER		(202-00204) REMOVAL OF CURB, GUTTER AND SIDEWALK		(202-00206) REMOVAL OF CONCRETE CURB RAMP		(202-00210) REMOVAL OF CONCRETE PAVEMENT		(202-00220) REMOVAL OF ASPHALT MAT		(202-00240) REMOVAL OF ASPHALT MAT (PLANING)		(202-00250) REMOVAL OF PAVEMENT MARKING		(202-00700) REMOVAL OF LIGHT STANDARD		(202-00705) REMOVAL OF LIGHT STANDARD FOUNDATION		(202-00827) REMOVAL OF PULL BOX		(202-00840) REMOVAL OF TRAFFIC SIGNAL POLE		(202-00848) REMOVAL OF TRAFFIC SIGNAL CONTROLLER AND CABINET		(250-00224) HAZARDOUS WASTE DISPOSAL (RADIOACTIVE)		COMMENTS			
	LF		LF		SY		SY		SY		SY		SF		EA		EA		EA		EA		EA		CY					
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const				
<b>HORIZON DR</b>																														
58+78 TO 63+00												4946																		HORIZON, G, AND 27 1/2 RDWY N SIDE HORIZON W CURB RETURN
58+89, 36' LT TO 60+93, 60' LT	228																													
60+86, 42' LT					8																									
59+63, 47' LT															1		1													
59+65, 46' LT																				1										
60+77, 44' LT																						1								
60+80, 48' LT																						1								
61+56, 65' LT TO 61+88, 37'LT	45																													
61+66, 74' LT																														
61+70, 48' LT					8																									
61+73, 61' LT																						1								
61+77, 55' LT																							1							
61+88, 37' LT TO 63+00, 36'LT					106																									
61+44, 176' LT TO 62+60, 63' LT												450																		
58+78, 25' RT TO 62+73, 8' RT																														
59+17, 36' RT TO 61+20, 68' RT	212																													
61+04, 62' RT																														
61+10, 68' RT																														
61+12, 56' RT																														
61+72, 64' RT TO 61+99, 35' RT	43																													
61+83, 47' RT																														
61+90, 53' RT																														
61+91, 61' RT																														
61+98, 42' RT TO 63+00, 44' RT					108																									
<b>G Rd</b>																														
66+22, 22' LT TO 67+49, 24' LT					138																									
66+52, 29' LT TO 66+50, 42' LT	13																													
66+76, 29' LT TO 66+76 70' LT	81																													
66+98, 30' LT TO 67+07, 35'LT	54																													
66+33, 34' RT TO 67+45, 32' RT					100																									
<b>27 1/2 RD</b>																														
68+69, 45' LT TO 69+50, 45' LT					60																									
68+70, 70' LT AND 69+12, 63' LT																														
68+72, 56' LT																														
68+80, 10' RT TO 69+50, 12' RT					75																									
69+12, 20' RT																														
<b>HORIZON DR</b>																														
57+90, 6' LT TO 58+78, 6' LT																														
57+20, 14' RT TO 58+78, 6' RT																														
<b>G Rd</b>																														
65+60, 14' LT TO 66+22, 18' LT																														
65+60 @CL TO 66+22, 3' LT																														
65+60, 24' RT TO 66+22, 29' RT																														
<b>SHEET 2 SUBTOTAL</b>	<b>676</b>				<b>587</b>							<b>4946</b>																		

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 File Name: TABULATION OF REMOVALS.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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

As Constructed	HORIZON DR AND G RD ROUNDABOUT TABULATION OF REMOVALS -	
No Revisions:	2	
Revised:	Designer: JCS	Structure Numbers
Void:	Detailer: JCS	Subset Sheets: X of X


Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 14




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TABULATION OF REMOVALS (Section #2) (Cont.)

STATION	(202-00203) REMOVAL OF CURB AND GUTTER		(202-00204) REMOVAL OF CURB, GUTTER AND SIDEWALK		(202-00206) REMOVAL OF CONCRETE CURB RAMP		(202-00210) REMOVAL OF CONCRETE PAVEMENT		(202-00220) REMOVAL OF ASPHALT MAT		(202-00240) REMOVAL OF ASPHALT MAT (PLANING)		(202-00250) REMOVAL OF PAVEMENT MARKING		(202-00700) REMOVAL OF LIGHT STANDARD		(202-00705) REMOVAL OF LIGHT STANDARD FOUNDATION		(202-00827) REMOVAL OF PULL BOX		(202-00840) REMOVAL OF TRAFFIC SIGNAL POLE		(202-00848) REMOVAL OF TRAFFIC SIGNAL CONTROLLER AND CABINET		(202-04100) ABANDON WELL		COMMENTS
	LF		LF		SY		SY		SY		SY		SF		EA		EA		EA		EA		EA		EA		
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	
<b>HORIZON DR</b>																											
63+00 TO 64+64																											
63+00, 36' LT TO 63+26, 35' LT																											
63+78 TO 64+40																											
63+00, 37' RT TO 64+63, 37' RT																											
63+87, 44' RT TO 63+87, 69' RT																											
64+22, 44' RT TO 64+22, 68' RT																											
<b>27 1/2 RD</b>																											
70+11, 45' LT																											
70+12, 44' LT																											
69+50, 45' LT TO 70+80, 33' LT																											
69+50 TO 70+80																											
70+80 TO 72+45																											
69+50, 12.5' RT TO STA 70+44, 23' RT																											
70+80, 21' LT TO 71+54, 21' LT																											
70+80, 17' LT TO 71+54, 17' LT																											
71+17, 27' LT																											
71+17 AT CL																											
70+44, 7' RT TO 71+34, 7' RT																											
72+45 7' RT TO 72+50, 7' RT																											
70+44, 19' RT TO 72+50, 19' RT																											
<b>SHEET 3 SUBTOTAL</b>																											
<b>SHEET 2 SUBTOTAL</b>																											
<b>PROJECT TOTAL</b>																											

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 Unit Information: City of GJ Unit Leader Initials: LF  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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As Constructed	HORIZON DR AND G RD ROUNDABOUT TABULATION OF REMOVALS -		Project No./Code
No Revisions:	3		SHE M555-034
Revised:	Designer: JCS	Structure Numbers	23652
Void:	Detailer: JCS	Subset Sheets: X of X	Sheet Number 15

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TABULATION OF SURFACING

STATION	(203-00100) Muck Excavation (Subgrade Stabilization)		(304-03000) AGGREGATE BASE COURSE (CLASS 3) (SUBGRADE STABILIZATION)		(304-06000) AGGREGATE BASE COURSE (CLASS 6)		(306-01000) Reconditioning		403-34741 Hot Mix Asphalt (Grading SX) (75) (PG 64-22)		(412-00600) CONCRETE PAVEMENT (6 INCH)		(412-00800) CONCRETE PAVEMENT (8 INCH)		412-01100 Concrete Pavement (11 Inch)		412-01105 Concrete Pavement (11 Inch) (Special)		(412-01120) CONCRETE PAVEMENT (11 INCH) (FAST TRACK)		(420-00133) GEOTEXTILE (SEPARATOR) (CLASS 2) (SUBGRADE STABILIZATION)		(506-01020) GEOGRID REINFORCEMENT (SUBGRADE STABILIZATION)		COMMENTS		
	CY		TON		TON		SY		TON		SY		SY		SY		SY		SY		SY		SY				
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const			
<b>Horizon Drive</b>																											
58+89, 48' LT TO 60+51, 145' LT						57																					6" AT SIDEWALK WEST QUADRANT
60+66, 88' LT TO 60+52, 145' LT						17																					12" BELOW RETAINING WALL FOOTING
59+25, 39' LT						3																					8" AT CURB RAMP
60+25, 38' LT						4																					8" AT CURB RAMP
60+77, 102' LT						4																					8" AT CURB RAMP
60+65, 134' LT						3																					8" AT CURB RAMP
60+29, 40' LT TO 60+77, 96' LT						6																					4" AT CONC MED COV MATL
58+89, 36' LT TO 60+55, 150' LT						34		81																			8" AT CURB & GUT WEST QUADRANT
61+25, 83' LT TO 60+93, 155' LT						18		42																			8" AT C&G NW SPLITTER ISLE
61+25, 83' LT TO 60+93, 155' LT						19																					4" @ CONC MED COV MATL NW SPLIT ISLE
61+17, 104' LT						6						20															CROSSWALK NW SPLIT ISLE
61+40, 87' LT						2		3																			8" @ MED NOSE NW SPLIT ISLE
60+99, 197' LT TO 61+30, 180' LT						11		15		5																	HMA CONNECT WALK TO G RD SHLDR
61+30, 180' LT TO 61+34, 173' LT						2																					6" AT SIDEWALK NORTH QUADRANT
61+34, 173' LT TO 61+63, 134' LT						34								80													COUNTRY CLUB AND AZTECAS DRIVE
61+63, 134' LT TO 63+26, 44' LT						47																					6" AT SIDEWALK NORTH QUADRANT
61+58, 118' LT						4																					8" AT CURB RAMP
61+60, 113' LT TO 62+33, 43' LT						7																					4" AT CONC MED COV MATL
62+40, 42' LT						4																					8" AT CURB RAMP
63+02, 35' LT						2																					8" AT CURB RAMP
60+93, 192' LT TO 63+25, 35' LT						34		81																			8" AT CURB & GUT NORTH QUADRANT
61+41, 175' LT TO 61+75, 130' LT TO 62+19, 63' LT						3																					6" AT ALL C&G'S AZTECAS AND CC
61+44, 175' LT TO 62+60, 63' LT						170		240		85																	AZTECAS AND COUNTRY CLUB PAVE
58+78 TO 63+00						1555		3900													195						RD PAVE HORIZON, G, AND 27 1/2 RD
58+80 TO 60+56						38		89																			8" AT C&G SW SPLITTER ISLE
58+80 TO 60+56						40																					4" @ CONC MED COV MATL SW SPLIT ISLE
60+36						7						22															CROSSWALK SW SPLIT ISLE
60+54, 14' LT						2		4																			8" @ MED NOSE SW SPLIT ISLE
60+84 TO 61+91						200		475											475								TRUCK APRON
60+98 TO 61+78						9		28																			6" AT CURB INSIDE TRUCK APRON
61+00 TO 61+76						8																					4" @ MEDIAN EDGE INSIDE TRUCK APRON
62+08 TO 63+00						23		53																			8" AT C&G NE SPLITTER ISLE
62+08 TO 63+00						26																					4" @ CONC MED COV MATL NE SPLIT ISLE
62+10, 20' RT						2		4																			8" @ MED NOSE NE SPLIT ISLE
62+22						9						30															CROSSWALK NE SPLIT ISLE
59+17, 36' RT TO 69+50, 20' RT (27 1/2 RD)						31		72																			8" AT CURB & GUT SOUTH QUADRANT
59+34, 36' RT						3																					8" AT CURB RAMP
60+25, 40' RT						4																					8" AT CURB RAMP
60+32, 41' RT TO 61+07, 113' RT						7																					4" AT CONC MED COV MATL
61+10, 118' RT						4																					8" AT CURB RAMP
59+17, 48' RT TO 69+50, 36' RT (27 1/2 RD)						58																					6" AT SIDEWALK SOUTH QUADRANT
<b>27 1/2 ROAD</b>																											
68+94 TO 69+50						13		31																			8" AT C&G SE SPLITTER ISLE
<b>SHEET 1 SUBTOTAL</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2530</b>	<b>0</b>	<b>5118</b>	<b>0</b>	<b>90</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>3900</b>	<b>0</b>	<b>475</b>	<b>0</b>	<b>195</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		


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 Unit Information: City of GJ Unit Leader Initials: LF



333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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Region 3 KC

As Constructed  
 No Revisions:  
 Revised:  
 Void:

HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF SURFACING  
 - 1

Designer: JCS  
 Detailer: JCS

Structure Numbers  
 Subset Sheets: X of X


Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 16




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TABULATION OF SURFACING (CONT.)

STATION	(203-00100) Muck Excavation (Subgrade Stabilization)		(304-03000) AGGREGATE BASE COURSE (CLASS 3) (SUBGRADE STABILIZATION)		(304-06000) AGGREGATE BASE COURSE (CLASS 6)		(306-01000) Reconditioning		403-34741 Hot Mix Asphalt (Grading SX) (75) (PG 64-22)		(412-00600) CONCRETE PAVEMENT (6 INCH)		(412-00800) CONCRETE PAVEMENT (8 INCH)		412-01100 Concrete Pavement (11 Inch)		412-01105 Concrete Pavement (11 Inch) (Special)		(412-01120) CONCRETE PAVEMENT (11 INCH) (FAST TRACK)		(420-00133) GEOTEXTILE (SEPARATOR) (CLASS 2) (SUBGRADE STABILIZATION)		(506-01020) GEOGRID REINFORCEMENT (SUBGRADE STABILIZATION)		COMMENTS		
	CY		TON		TON		SY		TON		SY		SY		SY		SY		SY		SY		SY				
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const			
<b>27 1/2 ROAD</b>																											
68+94 TO 69+50						11																					4"@CONC MED COV MATL SE SPLIT ISLE
68+96, 12' RT						2		4																			8"@MED NOSE SE SPLIT ISLE
69+17						5						15															CROSSWALK SE SPLIT ISLE
68+79, 52' LT TO 69+50 24' LT						13		31																			8" AT C&G SE SLIPLANE ISLE
68+79, 52' LT TO 69+50 24' LT						8																					4"@CONC MED COV MATL SE SLIPLN ISLE
69+23, 30' LT						4						13															CROSSWALK SE SLIPLANE ISLE
<b>Horizon Drive</b>																											
61+73, 124' RT TO 63+00, 28' RT						21		50																			8" AT CURB & GUT EAST QUADRANT
61+80, 114' RT						3																					8" AT CURB RAMP
61+82, 110' RT TO 62+35, 47' RT						6																					4" AT CONC MED COV MATL
62+38, 44' RT						5																					8" AT CURB RAMP
62+43, 42' RT TO 63+00 33' RT						4																					4" AT CONC MED COV MATL
61+88, 120' RT TO 63+00, 48' RT						38																					6"AT SIDEWALK EAST QUADRANT
<b>Horizon Drive</b>																											
63+00, 4' LT TO 64+64, 7' LT						217		520							520					26							RD PAVE N SIDE HORIZON DR
64+35, 52' LT						3						11															GVT BUS STOP
64+35, 42' LT						3						9															FILL BETWEEN WALK AND C&G GVT
63+00, 4' LT TO 64+64, 7' LT						15		36																			8" AT C&G N SIDE MEDIAN HORIZON DR
63+00 TO 64+64						27																					4" AT CONC MED COV MATL
63+68 TO 64+64						7																					4" AT CONC MEDIAN EDGING
63+00, 4' RT TO 64+64, 7' RT						15		36																			8" AT C&G S SIDE MEDIAN HORIZON DR
63+00, 4' RT TO 64+64, 7' RT						300		710							710					35							RD PAVE S SIDE HORIZON DR
63+00, 28' RT TO 63+91, 69' RT						13		30																			8" AT CURB & GUT SOUTH SIDE HORIZON
63+00, 33' RT TO 63+18, 32' RT						1																					4" AT CONC MED COV MATL
63+20, 35' RT						3																					8" AT CURB RAMP
63+72, 47' RT						6																					8" AT CURB RAMP
63+00, 48' RT TO 63+56, 92' RT						37																					6"@WALK S SIDE HORIZON W OF G RD
64+21, 68' RT TO 64+70, 36' RT						8		19																			8" AT CURB & GUT SOUTH SIDE HORIZON
64+39, 47' RT						6																					8" AT CURB RAMP
64+40, 64' RT TO 64+63, 50' RT						7																					6"@WALK S SIDE HORIZON E OF G RD
64+69, 38' RT TO 64+70, 44' RT						1																					6" AT TYPE 2 CURB
64+97, 48' RT TO 65+16, 48' RT						5																					GVT BUS STOP (INCLUDES T2 CURB ABC)
65+12, 40' RT						1						15															FILL BETWEEN WALK AND C&G GVT
64+64, 36' RT TO 64+70, 36' RT						1		2		1		3															SMALL HMA PATCH S SIDE HORIZON
<b>27 1/2 ROAD</b>																											
69+50, 46' LT TO 70+80, 33' LT						17		40																			8" AT CURB & GUT EAST SIDE 27 1/2 RD
70+52, 36' LT						3																					8" AT CURB RAMP
69+50, 61' LT TO 70+80, 40' LT						34																					6"@WALK E SIDE OF 27 1/2 ROAD
69+50, 3' LT TO 70+80, 7' LT						170		405							405					20							RD PAVE E SIDE 27 1/2 RD
69+53, 23' LT						1		2																			8"@MED NOSE SE SLIP LANE ISLE
69+50 TO 71+50						38		90																			8" AT CURB & GUT MEDIAN 27 1/2 RD
69+50 TO 71+42						20																					4" AT CONC MED COV MATL
71+45						1		1																			8"@MEDIAN NOSE END 27 1/2 RD MEDIAN
<b>SHEET 2 SUBTOTAL</b>		<b>0</b>		<b>0</b>		<b>1080</b>		<b>1976</b>		<b>1</b>		<b>66</b>		<b>0</b>	<b>1635</b>		<b>0</b>		<b>81</b>		<b>0</b>		<b>0</b>		<b>0</b>		

Print Date: 6/18/2024 7:08:28 AM  
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 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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


As Constructed  
 No Revisions:  
 Revised:  
 Void:  
 HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF SURFACING  
 - 2  
 Designer: JCS  
 Detailer: JCS  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 17

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\DESIGN\TABULATION OF SURFACING.dwg, 6/18/2024 7:08:29 AM

**TABULATION OF SURFACING (CONT.)**

STATION	(203-00100) Muck Excavation (Subgrade Stabilization)		(304-03000) AGGREGATE BASE COURSE (CLASS 3) (SUBGRADE STABILIZATION)		(304-06000) AGREGATE BASE COURSE (CLASS 6)		(306-01000) Reconditioning		403-34741 Hot Mix Asphalt (Grading SX) (75) (PG 64-22)		(412-00600) CONCRETE PAVEMENT (6 INCH)		(412-00800) CONCRETE PAVEMENT (8 INCH)		412-01100 Concrete Pavement (11 Inch)		412-01105 Concrete Pavement (11 Inch) (Special)		(412-01120) CONCRETE PAVEMENT (11 INCH)( FAST TRACK)		(420-00133) GEOTEXTILE (SEPARATOR) (CLASS 2)(SUBGRADE STABILIZATION)		(506-01020) GEOGRID REINFORCEMENT (SUBGRADE STABILIZATION)		COMMENTS	
	CY		TON		TON		SY		TON		SY		SY		SY		SY		SY		SY		SY			
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const		
<b>27 1/2 ROAD</b>																										
71+71 TO 72+43					16		37																			8" AT CURB & GUT MEDIAN 27 1/2 RD
71+71 TO 72+43					16																					4" AT CONC MED COV MATL
70+44, 6' RT TO 72+45					98		140		56																	27 1/2 RD ASPH PATCH TO INSTALL MEDIAN
69+50, 3' RT TO 70+44, 4' RT					72		172							172						8						RD PAVE W SIDE 27 1/2 RD
69+50, 20' RT TO 70+44, 23' RT					11		25																			8" AT CURB & GUT WEST SIDE 27 1/2 RD
70+08, 28' RT					3																					8" AT CURB RAMP
69+50, 36' RT TO 70+44, 30' RT					30																					6"@WALK W SIDE OF 27 1/2 ROAD
<b>Horizon Drive, G Road, &amp; 27 1/2 Road</b>	1103		1980																			1650		1650		25% of total Roadway Reconstruction area
<b>SHEET 3 SUBTOTAL</b>	1103		1980		246		374		56		0		0		172		0		8		1650		1650			
<b>SHEET 1 SUBTOTAL</b>	0		0		2530		5118		90		72		80		3900		475		195		0		0			
<b>SHEET 2 SUBTOTAL</b>	0		0		1080		1976		1		66		0		1635		0		81		0		0			
<b>PROJECT TOTAL</b>	1103		1980		3856		7468		147		138		80		5707		475		284		1650		1650			

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 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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As Constructed	HORIZON DR AND G RD ROUNDABOUT TABULATION OF SURFACING	
No Revisions:	- 3	
Revised:	Designer: JCS	Structure Numbers
Void:	Detailer: JCS	Subset Sheets: X of X

Project No./Code	SHE M555-034
	23652
Sheet Number	18



TABULATION OF RETAINING WALL, SIDEWALK, CURB RAMP, CURB & GUTTER, AND MEDIAN COVER MATERIAL

STATION	(608-00000) CONCRETE SIDEWALK		(608-00010) CONCRETE CURB RAMP		608-00015 Detectable Warnings		(609-20010) CURB TYPE 2 (SECTION B)		610-00100 Median Edging (Patterned Concrete)		(609-21023) CURB & GUTTER TYPE 2 (SECTION II-B) (SPECIAL)		(609-21110) CURB & GUTTER TYPE 2 (SECTION I-B) (SPECIAL)		(610-00026) MEDIAN COVER MATERIAL (6 INCH PATTERNED CONCRETE)		COMMENTS		
	SY		SY		SF		LF		LF		LF		LF		SF				
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const			
<b>HORIZON DRIVE</b>																			
58+89, 48' LT TO 60+51, 145' LT	191																	SIDEWALK WEST QUADRANT	
59+25, 39' LT			6															CURB RAMP WEST QUADRANT	
60+25, 38' LT			8		16													CURB RAMP WEST QUADRANT	
60+77, 102' LT			8		16													CURB RAMP WEST QUADRANT	
60+85, 134' LT			7															CURB RAMP WEST QUADRANT	
60+66, 88' LT TO 60+52, 145' LT																		RETAINING WALL WEST QUADRANT	
60+29, 40' LT TO 60+77, 96' LT																253		CONC MED COV MATL W QUADRANT	
58+89, 36' LT TO 60+55, 150' LT												292						C & G WEST QUADRANT	
61+25, 83' LT TO 60+93, 155' LT														190				C & G NW SPLITTER ISLAND	
61+25, 83' LT TO 60+93, 155' LT																893		CONC MED COV MATL NW SPLIT ISLE	
61+17, 104' LT					32		40											CROSSWALK NW SPLIT ISLE	
61+30, 180' LT TO 61+34, 173' LT	6																	SIDEWALK NORTH QUADRANT	
61+63, 134' LT TO 63+26, 44' LT	155																	SIDEWALK NORTH QUADRANT	
61+58, 118' LT			8		16													CURB RAMP NORTH QUADRANT	
61+60, 113' LT TO 62+33, 43' LT																	310	CONC MED COV MATL NORTH QUAD	
62+40, 42' LT			8		16													CURB RAMP NORTH QUADRANT	
63+02, 35' LT			5															CURB RAMP NORTH QUADRANT	
60+93, 192' LT TO 63+25, 35' LT												292						CURB & GUT NORTH QUADRANT	
61+34, 174' LT TO 61+44, 176' LT												5						CURB & GUT W SIDE C.C. DWY	
61+63, 134' LT TO 61+67, 124' LT							37											CURB AT AZTECAS DWY	
62+19, 63' LT TO 62+60, 62' LT							39											CURB AT AZTECAS PARKING	
61+70, 122' LT TO 62+20, 65' LT							42											ACTUALLY PARKING BLOCKS AZTECAS	
58+80 TO 60+56														400				C&G SW SPLITTER ISLE	
58+80 TO 60+56																1770		CONC MED COV MATL SW SPLITTER ISLE	
60+36					32		45											CROSSWALK SW SPLIT ISLE	
60+98 TO 61+78								250										CURB INSIDE TRUCK APRON	
61+00 TO 61+76									245									MEDIAN EDGING INSIDE TRUCK APRON	
62+08 TO 63+00														240				CURB AND GUTTER NE SPLITTER ISLE	
62+08 TO 63+00																1200		CONC MED COV MATL NE SPLITTER ISLE	
62+22					32		65											CROSSWALK NE SPLIT ISLE	
59+17,36'RT TO 69+50,20' RT (27 1/2 RD)														262				CURB & GUT SOUTH QUADRANT	
59+34, 36' RT			7															CURB RAMP SOUTH QUADRANT	
60+25, 40' RT			8		16													CURB RAMP SOUTH QUADRANT	
60+32, 41 RT TO 61+07, 113' RT																	320	CONC MED COV MATL SOUTH QUADRANT	
61+10, 118' RT			8		16													CURB RAMP SOUTH QUADRANT	
59+17,48'RT TO 69+50,36' RT (27 1/2 RD)	195																	SIDEWALK SOUTH QUADRANT	
<b>27 1/2 ROAD</b>																			
68+94 TO 69+50																	141		CURB & GUTTER SE SPLITTER ISLAND
68+94 TO 69+50																	525		CONC MED COV MATL SE SPLITTER ISLAND
69+17					32		28												CROSSWALK SE SPLIT ISLE
68+79, 52' LT TO 69+55 24' LT																	141		C&G SE SLIPLANE ISLE
68+79, 52' LT TO 69+55 24' LT																	390		CONC MED COV MATL SE SLIPLANE ISLE
69+23, 30' LT					32		24												CROSSWALK SE SLIPLANE ISLE
<b>SHEET 1 SUBTOTAL</b>	<b>547</b>		<b>73</b>		<b>256</b>		<b>570</b>		<b>245</b>		<b>851</b>		<b>1112</b>		<b>5661</b>				

Print Date: 11/14/2024 12:25:20 PM  
 File Name: TABULATION OF SIDEWALK CURB and GUTTER and MEDIAN COVER.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
**CITY OF Grand Junction** COLORADO  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Rev.	Comments	Init.


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

As Constructed  
 No Revisions:  
 Revised:  
 HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF SIDEWALK CURB AND  
 GUTTER AND MEDIAN COVER - 1  
 Designer: JCS  
 Detailer: JCS  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 19

TABULATION OF RETAINING WALL, SIDEWALK, CURB RAMP, CURB & GUTTER, AND MEDIAN COVER MATERIAL

STATION	(608-00000) CONCRETE SIDEWALK		(608-00010) CONCRETE CURB RAMP		608-00015 Detectable Warnings		(609-20010) CURB TYPE 2 (SECTION B)		610-00100 Median Edging (Patterned Concrete)		(609-21023) CURB & GUTTER TYPE 2 (SECTION II-B) (SPECIAL)		(609-21110) CURB & GUTTER TYPE 2 (SECTION I-B) (SPECIAL)		(610-00026) MEDIAN COVER MATERIAL (6 INCH PATTERNED CONCRETE)		COMMENTS	
	SY		SY		SF		LF		LF		LF		LF		SF			
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const		
<b>HORIZON DRIVE</b>																		
61+73, 124' RT TO 63+00, 28' RT												180						CURB AND GUTTER AT EAST QUADRANT
61+80, 114' RT			6		16													CURB RAMP AT EAST QUADRANT
61+82, 110' RT TO 62+35, 47' RT																255		CONC MED COV MATL EAST QUADRANT
62+38, 44' RT			11		16													CURB RAMP AT EAST QUADRANT
62+43, 42' RT TO 63+00 33' RT																190		CONC MED COV MATL EAST QUADRANT
61+88, 120' RT TO 63+00, 48' RT	125																	SIDEWALK AT EAST QUADRANT
<b>HORIZON DRIVE</b>																		
63+00, 4' LT TO 64+64, 7' LT														165				C&G N SIDE MEDIAN HORIZON DR
63+00 TO 64+64															1180			CONC MED COV MATL HORIZON DR MEDIAN
63+68 TO 64+64									200									MEDIAN EDGING HORIZON DR MEDIAN
63+00, 4' RT TO 64+64, 7' RT													164					C&G S SIDE MEDIAN HORIZON DR
63+00, 28' RT TO 63+91, 69' RT												108						CURB & GUT SOUTH SIDE HORIZON WEST OF G RD
63+00, 33' RT TO 63+18, 32' RT																30		CONC MED COV MATL SOUTH SIDE HORIZON
63+20, 35' RT			7															CURB RAMP SOUTH SIDE HORIZON
63+72, 47' RT			15		14													CURB RAMP SOUTH SIDE HORIZON
63+00, 48' RT TO 63+56, 92' RT	125																	WALKS SOUTH SIDE HORIZON WEST OF G RD
64+21, 68' RT TO 64+68, 36' RT													65					CURB & GUT SOUTH SIDE HORIZON EAST OF G RD
64+69, 37' RT			1															CURB RAMP SMALL PORTION JOIN TO EXIST
64+69, 38' RT TO 64+70, 44' RT								7										AT CURB RAMP S SIDE HORIZON EAST END
64+39, 47' RT			14		14													CURB RAMP E CURB RETURN HORIZON AND G
64+40, 64' RT TO 64+63, 50' RT	24																	WALK SOUTH SIDE HORIZON EAST OF G RD
64+97, 48' RT TO 65+16, 48' RT								33										CURB AT GVT BUS STOP
<b>27 1/2 ROAD</b>																		
69+50, 46' LT TO 70+80, 33' LT													142					CURB & GUT EAST SIDE 27 1/2 RD
70+52, 36' LT			5															CURB RAMP 27 1/2 RD
69+50, 61' LT TO 70+80, 40' LT	113																	WALK E SIDE OF 27 1/2 ROAD
69+50 TO 71+50														400				CURB & GUT MEDIAN 27 1/2 RD
69+50 TO 71+50															875			MEDIAN COV MATL 27 1/2 RD
71+71 TO 72+43														166				CURB & GUT MEDIAN 27 1/2 RD
71+71 TO 72+43																832		MEDIAN COV MATL 27 1/2 RD
69+50, 20' RT TO 70+44, 23' RT													90					CURB & GUT WEST SIDE 27 1/2 RD
70+08, 28' RT			7															CURB RAMP WEST SIDE OF 27 1/2
69+50, 36' RT TO 70+44, 30' RT	70																	WALK W SIDE OF 27 1/2 ROAD
<b>SHEET 2 SUBTOTAL</b>																		
	457		66		60		40		200		585		895		3362			
<b>SHEET 1 SUBTOTAL</b>																		
	547		73		256		570		245		851		1112		5661			
<b>PROJECT TOTAL</b>																		
	1004		139		316		610		445		1436		2007		9023			

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 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date	Comments	Init.

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 Grand Junction, CO, 81501  
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 Region 3 KC


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 No Revisions:  
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 HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF SIDEWALK CURB AND  
 GUTTER AND MEDIAN COVER - 2  
 Designer: JCS Structure Numbers  
 Detailer: JCS  
 TABULATION OF SIDEWALK CURB AND GUTTER AND MEDIAN COVER Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 20


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**TABULATION OF MISCELLANEOUS ITEMS**

STATION	(210-02510) Relay Sprinkler System		(210-04010) ADJUST MANHOLE		(210-04015) MODIFY MANHOLE		(210-04020) Modify Inlet		(210-04050) Adjust Valve Box		COMMENTS
	LS		EA		EA		EA		EA		
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	
<b>HORIZON DRIVE</b>											
60+91, 17' LT			1								EX STORM MH (M1)
61+93, 70' RT			1		1						EX STORM MH (M2)
62+30, 60' LT	1										FOR AZTECA'S NORTH QUADRANT
63+08, 11' LT									1		
64+07, 11' LT									1		
64+22, 51' RT							1				EX INLET (M2) AT INT OF HORIZON AND G
61+26, 18' RT			1								EX SAN SEW MH (M2)
62+28, 24' RT			1								EX SAN SEW MH (M3)
63+18, 20' RT			1								EX SAN SEW MH (M4)
63+66, 19' RT			1								EX SAN SEW MH (M5)
<b>27 1/2 ROAD</b>											
69+13, 3' LT			1								EX SAN SEW MH (M1)
69+13, 63' LT			1								EX SAN SEW MH (M1a)
<b>PROJECT TOTAL =</b>	<b>1</b>		<b>8</b>		<b>1</b>		<b>1</b>		<b>2</b>		

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 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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 No Revisions:  
 Revised:  
 Void: TABULATION OF MISCELLANEOUS ITEMS

HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF  
 MISCELLANEOUS ITEMS - 1

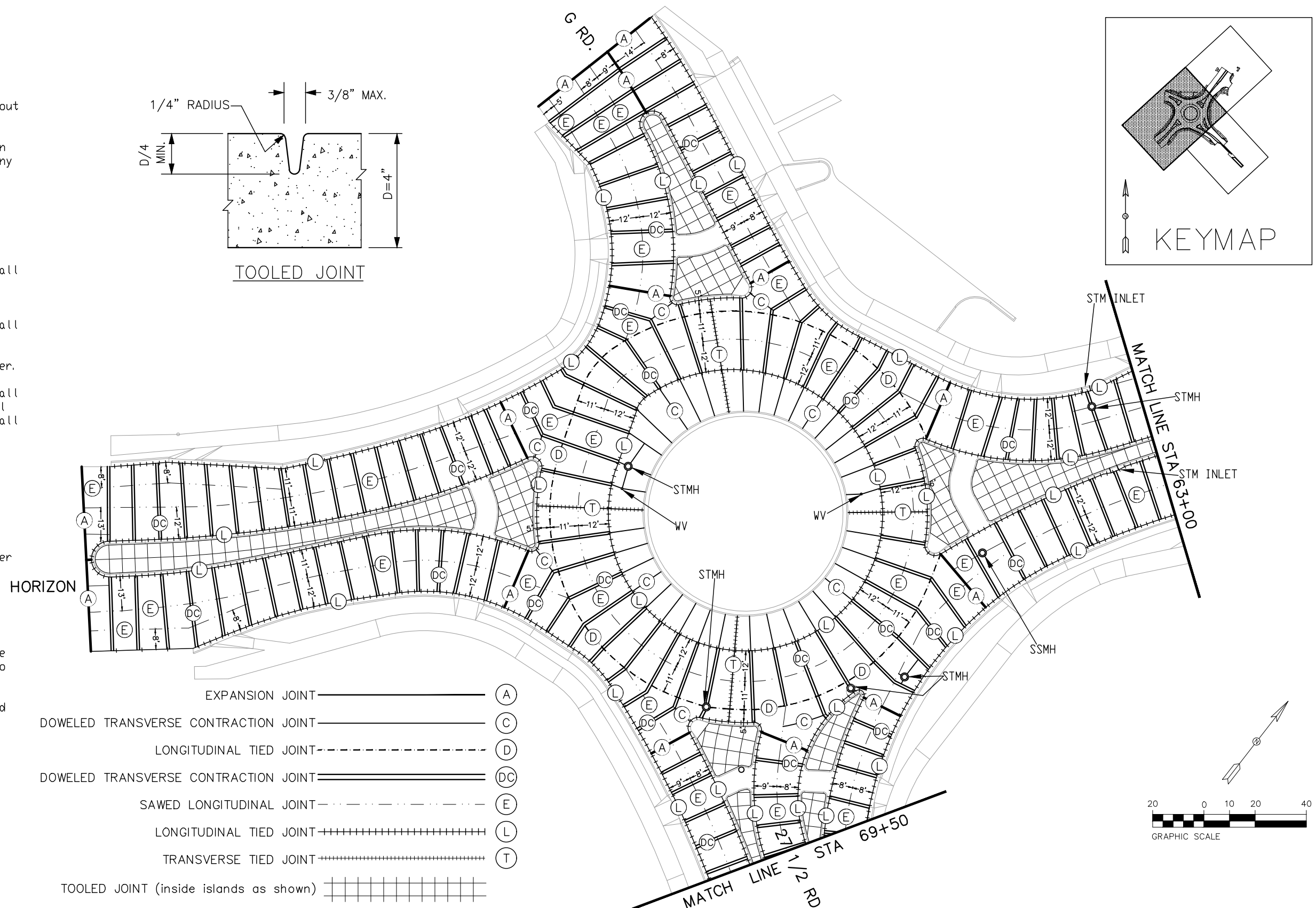
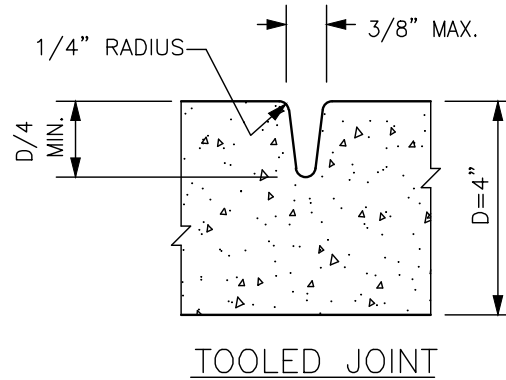
Designer: JCS  
 Detailer: JCS  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 21

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**Concrete Pavement Jointing Notes:**

1. The concrete pavement joint layout as shown on the concrete pavement jointing plans are intended for bidding and for general information purposes only. Prior to placing any concrete pavement, the Contractor shall submit a concrete pavement joint layout plan to the Engineer identifying the Contractor's proposed concrete pavement joint layout and the Contractor's anticipated pavement placement sequence. No concrete pavement shall be placed by the Contractor until authorized by the Engineer.
2. All concrete pavement joints shall be installed per CDDOT Standard M-412-1, except as noted on the plans or as directed by the Engineer.
3. The concrete joints, including all necessary materials and labor, will not be paid for separately, but shall be included in the cost of the concrete pavement.
4. At the Contractor's option, if approved by the Engineer, the curb and gutter abutting the concrete pavement may be poured monolithically with the concrete pavement at no additional cost to the project. If the curb and gutter is poured monolithically, the longitudinal construction joint between gutter and the concrete pavement will not be required.
5. Transverse and Longitudinal Construction Joints as shown on the jointing plans shall be required to conjoin phased concrete pours.
6. All concrete joints to be placed shall be previously laid out and marked on either the ground, concrete form work and/or adjacent concrete before placement of new concrete operations begin.
7. The Contractor shall keep the distances between concrete joints within 9 - 14 feet. There shall be no distances greater than 14 feet between joints.



- EXPANSION JOINT ————— (A)
- DOWELED TRANSVERSE CONTRACTION JOINT ————— (C)
- LONGITUDINAL TIED JOINT - - - - - (D)
- DOWELED TRANSVERSE CONTRACTION JOINT = = = = = (DC)
- SAWED LONGITUDINAL JOINT - - - - - (E)
- LONGITUDINAL TIED JOINT + + + + + (L)
- TRANSVERSE TIED JOINT + + + + + (T)
- TOOLED JOINT (inside islands as shown) [Grid Pattern]

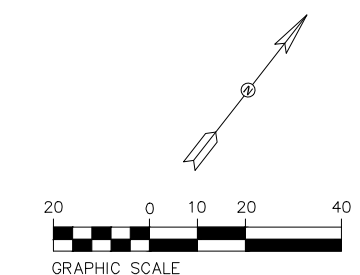
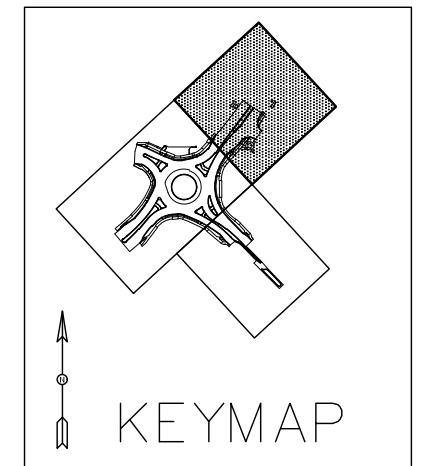
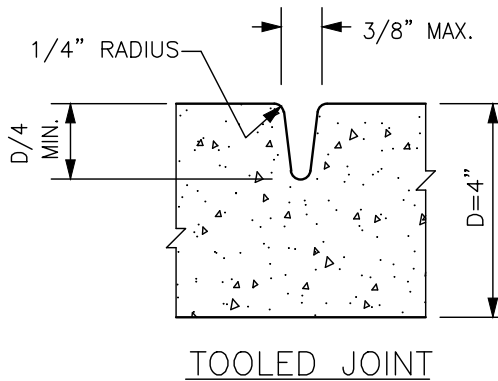
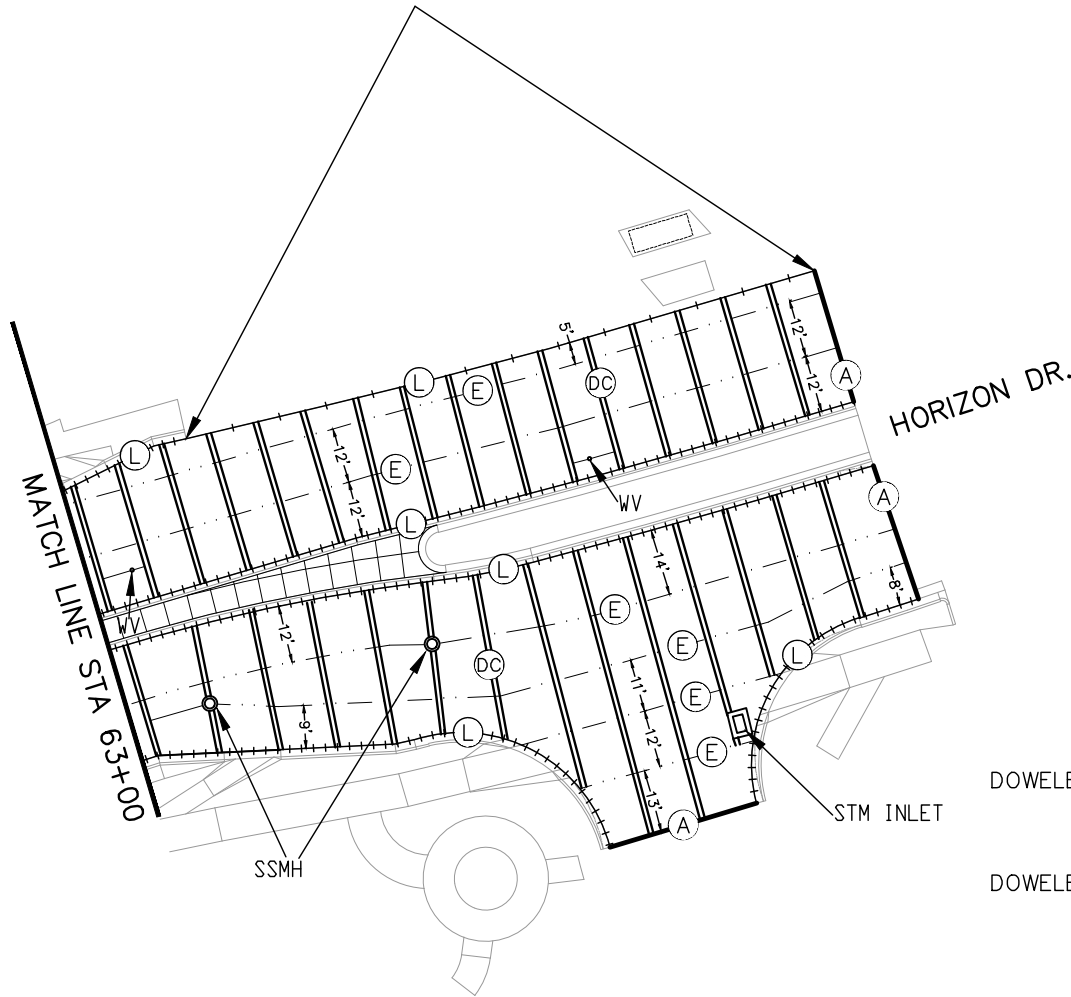
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Unit Information: City of GJ	Unit Leader Initials: LF					Region 3	KC	Void:
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554								

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Concrete Pavement Jointing Notes:

1. The concrete pavement joint layout as shown on the concrete pavement jointing plans are intended for bidding and for general information purposes only. Prior to placing any concrete pavement, the Contractor shall submit a concrete pavement joint layout plan to the Engineer identifying the Contractor's proposed concrete pavement joint layout and the Contractor's anticipated pavement placement sequence. No concrete pavement shall be placed by the Contractor until authorized by the Engineer.
2. All concrete pavement joints shall be installed per CDDT Standard M-412-1, except as noted on the plans or as directed by the Engineer.
3. The concrete joints, including all necessary materials and labor, will not be paid for separately, but shall be included in the cost of the concrete pavement.
4. At the Contractor's option, if approved by the Engineer, the curb and gutter abutting the concrete pavement may be poured monolithically with the concrete pavement at no additional cost to the project. If the curb and gutter is poured monolithically, the longitudinal construction joint between gutter and the concrete pavement will not be required.
5. Transverse and Longitudinal Construction Joints as shown on the jointing plans shall be required to conjoin phased concrete pours.
6. All concrete joints to be placed shall be previously laid out and marked on either the ground, concrete form work and/or adjacent concrete before placement of new concrete operations begin.
7. The Contractor shall keep the distances between concrete joints within 9 - 14 feet. There shall be no distances greater than 14 feet between joints.

FOR THIS LENGTH OF EXISTING CURB AND GUTTER 1 EA TIE BAR SHALL BE DOWELED INTO EXISTING GUTTER AT THE MIDDLE OF EACH STONE - SPACING NOT TO EXCEED 10'



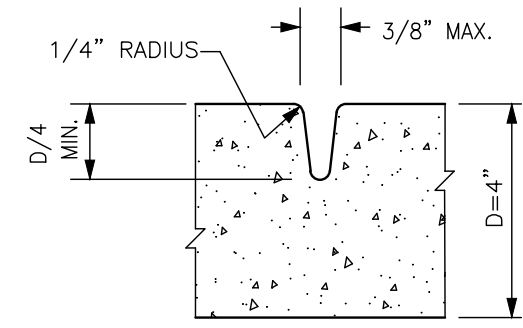
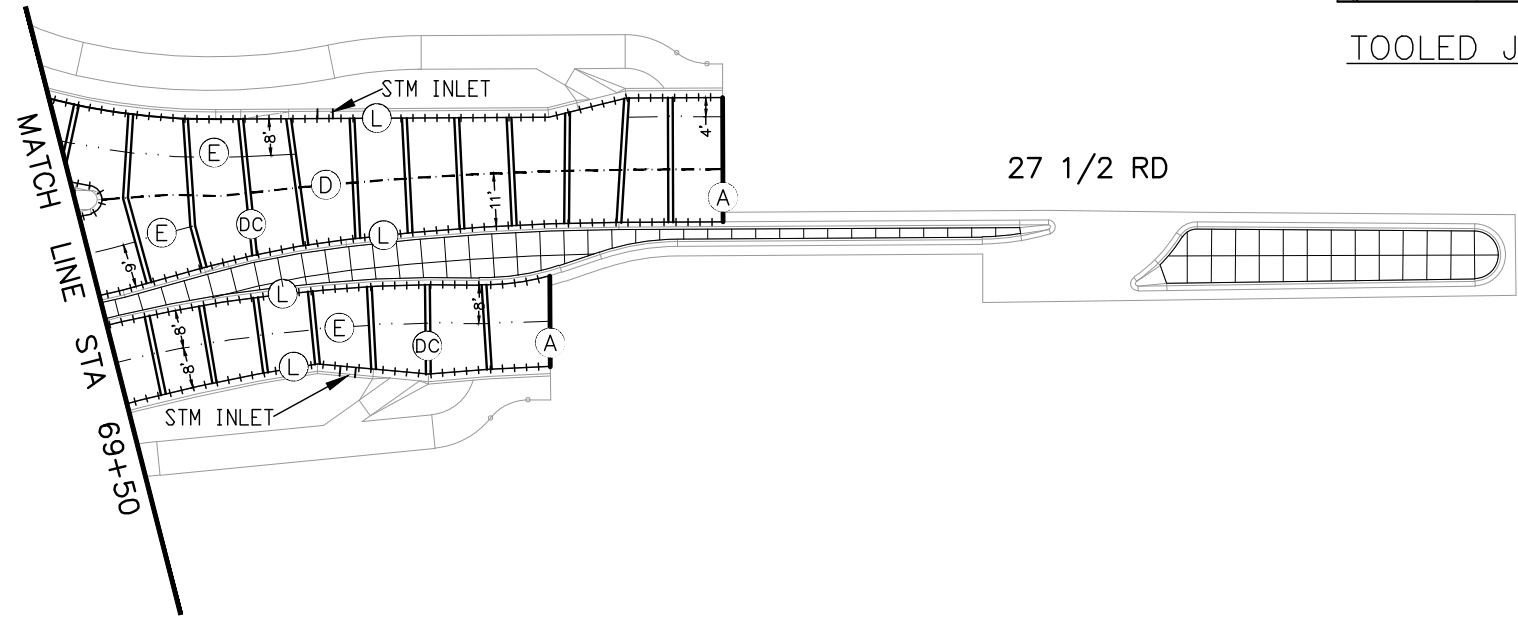
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- DOWELED TRANSVERSE CONTRACTION JOINT = = = = = (DC)
- SAWED LONGITUDINAL JOINT - . . . . . (E)
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- TOOLED JOINT (inside islands as shown) | | | | |

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		Designer: JCS    Structure Numbers Detailer: JCS    Subset Sheets: X of X							

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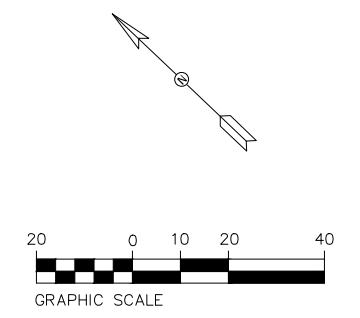
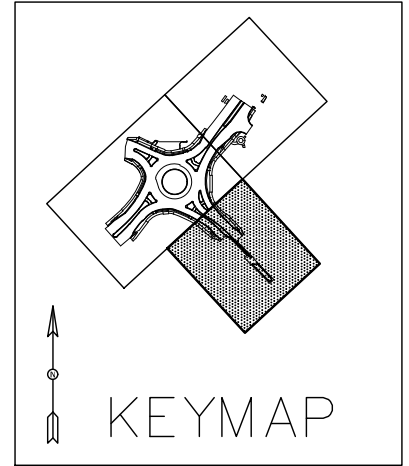
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TOOLED JOINT

- EXPANSION JOINT \_\_\_\_\_ (A)
- DOWELED TRANSVERSE CONTRACTION JOINT \_\_\_\_\_ (C)
- LONGITUDINAL TIED JOINT - - - - - (D)
- DOWELED TRANSVERSE CONTRACTION JOINT = = = = = (DC)
- SAWED LONGITUDINAL JOINT - · - · - · (E)
- LONGITUDINAL TIED JOINT + + + + + (L)
- TRANSVERSE TIED JOINT + + + + + (T)
- TOOLED JOINT (inside islands as shown) | | | | |



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

- Format \*
3D Design Modeling Electronic Files Finished Ground Surface Model in LandXML format
Horizontal Control Project Survey Control and Staking Plan Sheet in PDF format
Vertical Control Project Survey Control and Staking Plan Sheet in PDF format
Roadway Alignment
Original Terrain Data Existing Ground Surface Model in LandXML format
Other:

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

TYPE OF PROJECT

- Landscaping
Signalization
Safety Improvement
Asphalt Overlay
Concrete Overlay
Minor Widening
Major Reconstruction
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)

Table with 5 columns: Slope Staking (Y/N), Grid (Y/N), Grade (Y/N), Special Interval, and a row for Excavation with 'Specified on Staking Plan'.

Table with 5 columns: Slope Staking (Y/N), Grid (Y/N), Grade (Y/N), Special Interval, and a row for Embankment with 'Specified on Staking Plan'.

- Excavation
Unclassified
Striping
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:

Table with 5 columns: Grid (Y/N), Grade (Y/N), Special Interval, Special Offset, and a row for Roadway Bases with 'Specified on Staking Plan'.

- 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:

Table with 4 columns: Pavements, Grid (Y/N), Special Interval, Special Offset. Row: Specified on Staking Plan.

- 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:

Table with 4 columns: Curb & Gutter, Tangent Interval, Curve Interval, Special Offset. Row: Specified on Staking Plan.

Table with 4 columns: Stationing, Left Interval, Center Interval, Right Interval. Row: Specified on Staking Plan.

- 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: Retaining Wall West Side of G Rd North of Horizon

- 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: \*\* not required
Locate monuments. It is estimated \_\_\_ hours are required.

Refer to the Right of Way Plans and Project & Land Survey Control Diagram Horizon Dr and G Rd Roundabout for Work to be performed by the Contractor's Surveyor under Section 629

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

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

GENERAL NOTES:

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer \_\_\_ 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 CDOT 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

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333 WEST AVE, BLDG C
Grand Junction, CO, 81501
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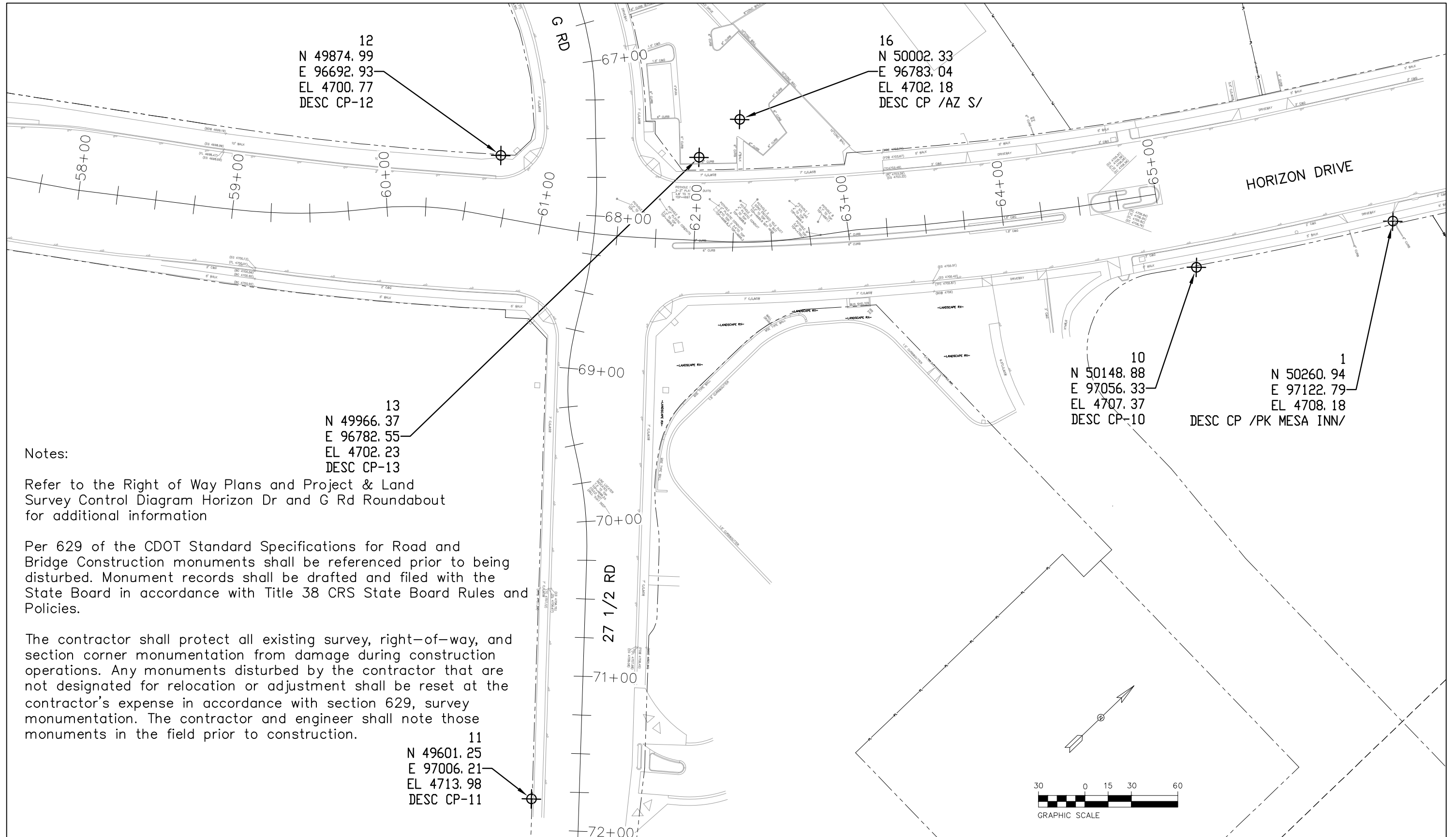
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Phone: 970-683-6351 FAX: 970-683-6369
Region 3 KC

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SURVEY TABULATION - 1
Project No./Code
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**Notes:**

Refer to the Right of Way Plans and Project & Land Survey Control Diagram Horizon Dr and G Rd Roundabout for additional information

Per 629 of the CDOT Standard Specifications for Road and Bridge Construction monuments shall be referenced prior to being disturbed. Monument records shall be drafted and filed with the State Board in accordance with Title 38 CRS State Board Rules and Policies.

The contractor shall protect all existing survey, right-of-way, and section corner monumentation from damage during construction operations. Any monuments disturbed by the contractor that are not designated for relocation or adjustment shall be reset at the contractor's expense in accordance with section 629, survey monumentation. The contractor and engineer shall note those monuments in the field prior to construction.

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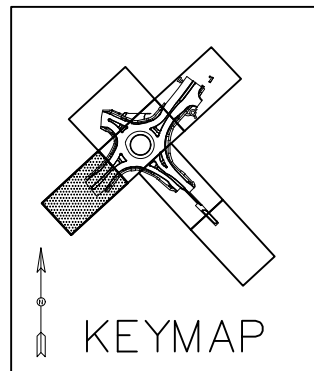
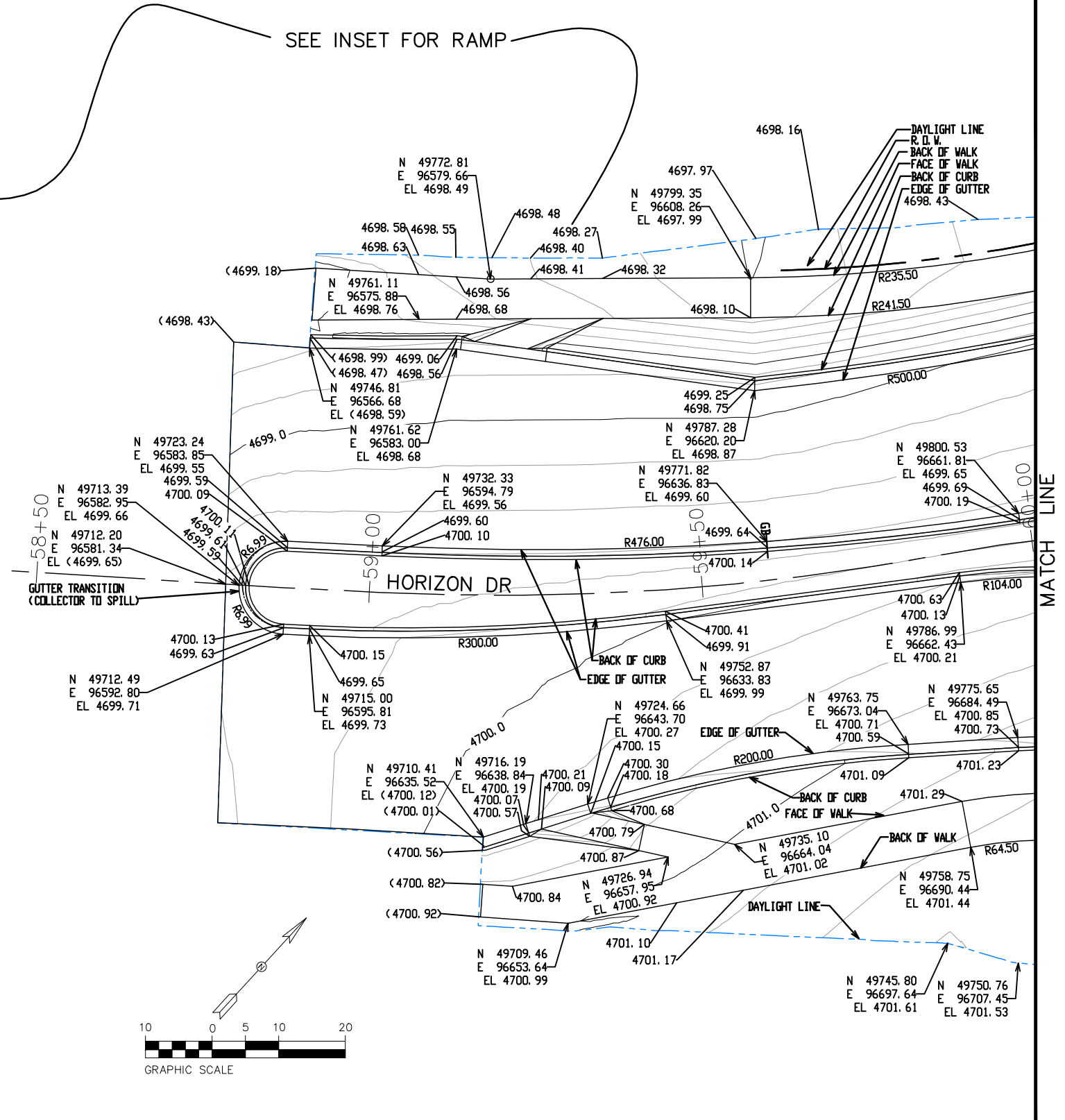
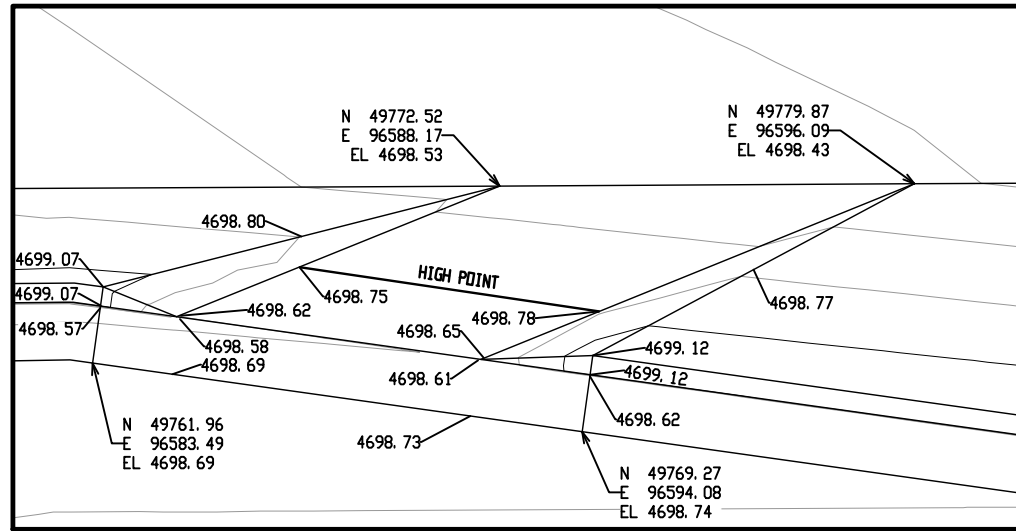
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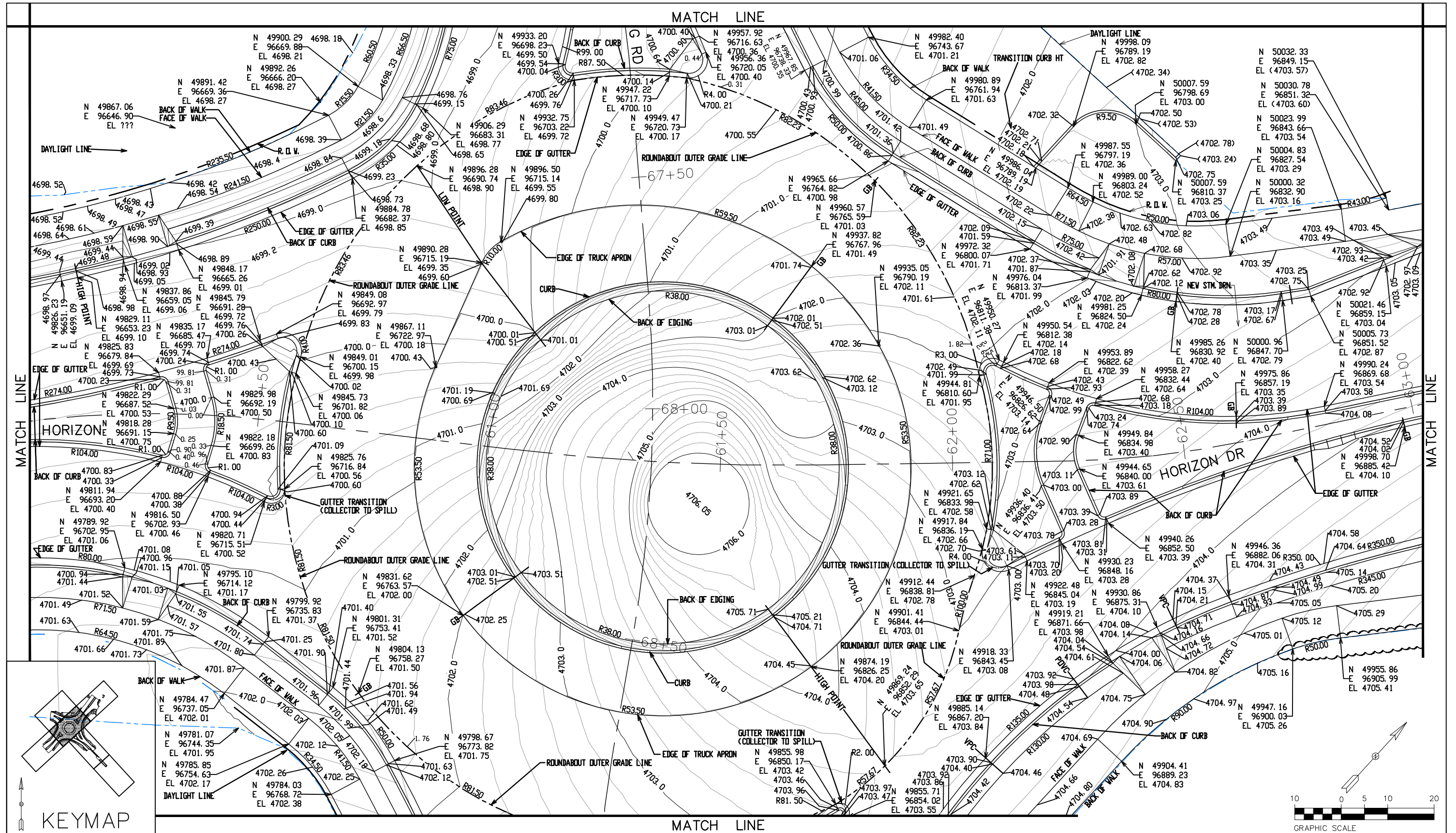
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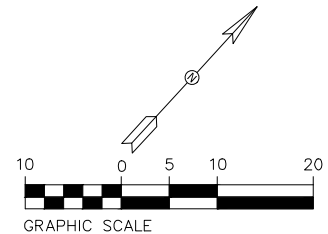
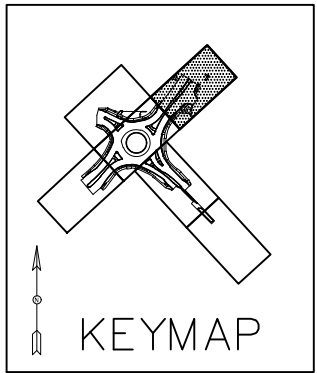
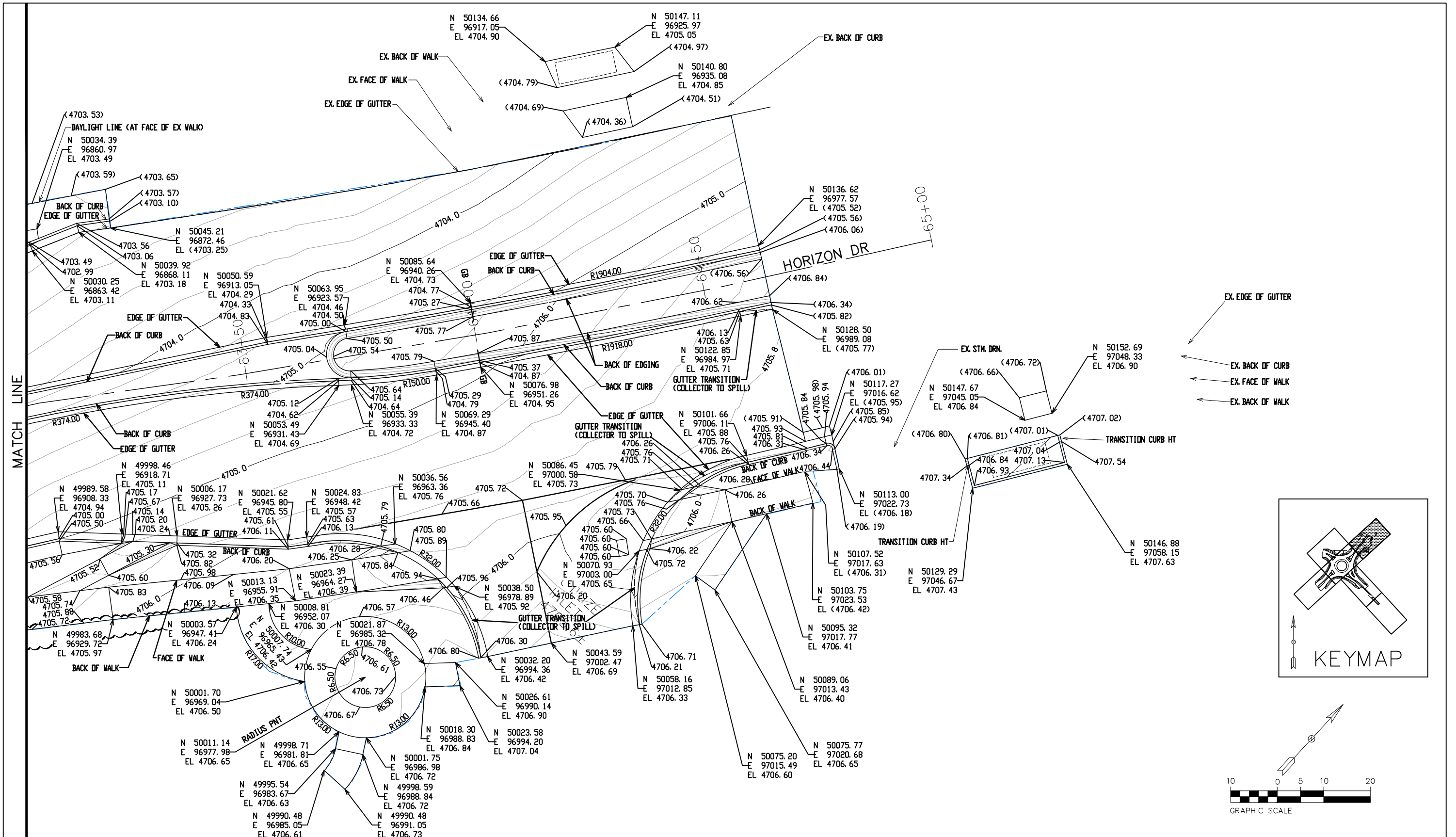
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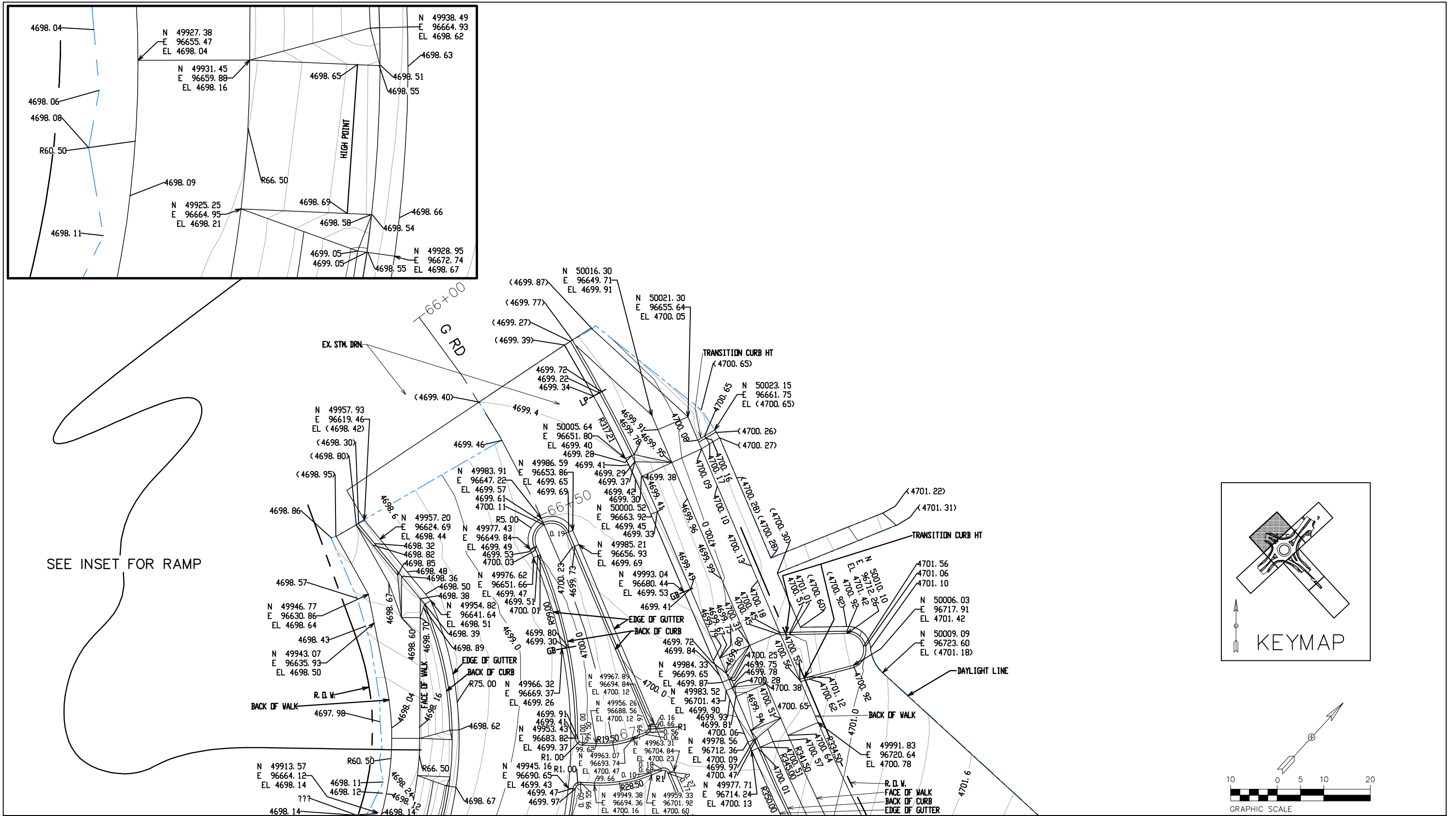




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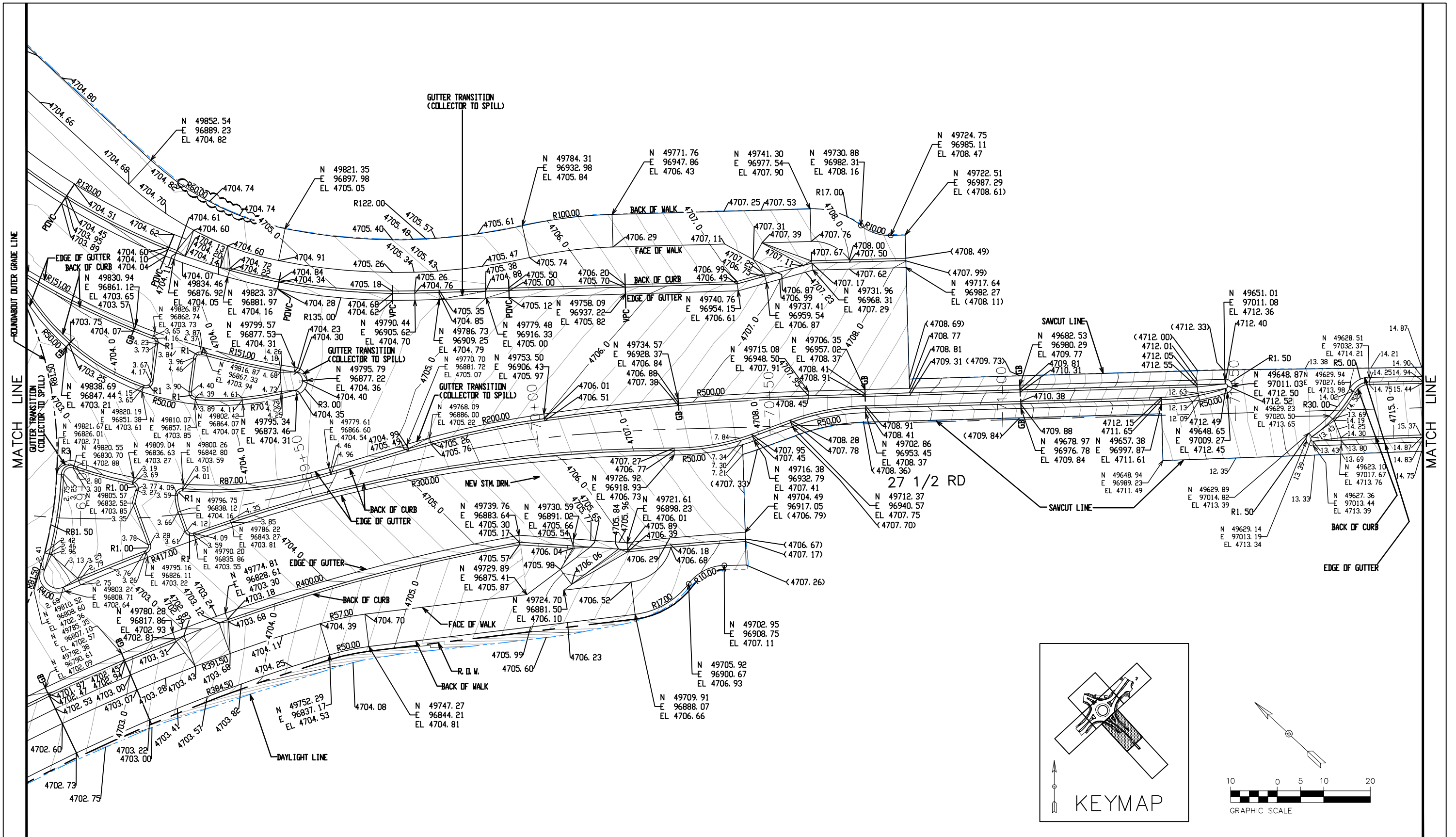
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Print Date: 6/18/2024 7:14:00 AM		Sheet Revisions		Colorado Department of Transportation		As Constructed		HORIZON DR AND G RD ROUNDABOUT		Project No./Code		
File Name: STAKING PLAN.dwg		Date:	Comments	Init.	606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369		No Revisions:		STAKING PLAN - 4		SHE M555-034	
Horiz. Scale: AS SHOWN Vert. Scale: NA							Revised:		Designer: JCS		Structure Numbers	
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		333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554			KC		Sheet Subset: STAKING PLAN		Subset Sheets: X of X		Sheet Number 30	



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Horiz. Scale: AS SHOWN				 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369	Revised:	Designer:	JCS	Structure Numbers	23652
Unit Information: City of GJ Unit Leader Initials: LF						Void:	Detailer:		
 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554				Region 3	KC				

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MATCH LINE

NOTE  
ELEVATIONS SHOWN THIS END OF MEDIAN ISLAND  
ARE APPROXIMATE. MEDIAN WILL BE "CUT INTO"  
EXISTING ROADWAY - CONTRACTOR MAY SET  
ELEVATIONS FOR ISLAND USING COORDINATES  
HEREON AND DIRECTION GIVEN AT THOSE  
COORDINATES.

N 49586.55  
E 97072.22  
EL = EX + .05±

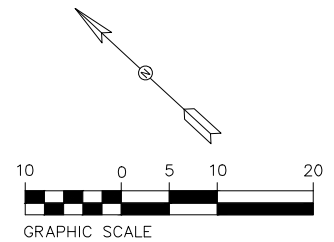
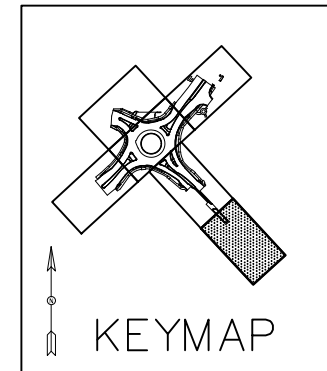
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E 97079.34  
MATCH EX EL

N 49577.50  
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EL = EX + .05±

N 49570.05  
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MATCH EX EL

N 49577.41  
E 97072.03  
EL = EX + .05±

27 1/2 RD



Print Date: 6/18/2024 7:14:07 AM  
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Unit Information: City of GJ Unit Leader Initials: LF

**CITY OF Grand Junction**  
333 WEST AVE, BLDG C  
Grand Junction, CO, 81501  
Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

**CO** **CDOT**

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

Region 3 KC

As Constructed

No Revisions:

Revised:

Void:

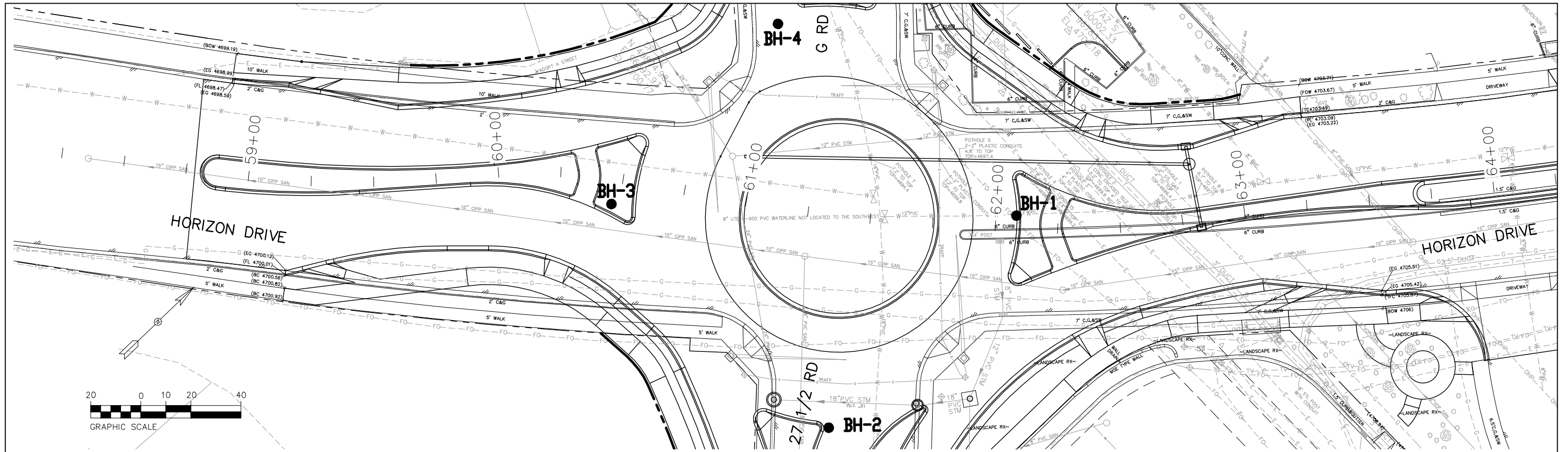
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STAKING PLAN - 6

Designer: JCS  
Detailer: JCS  
Sheet Subset: STAKING PLAN

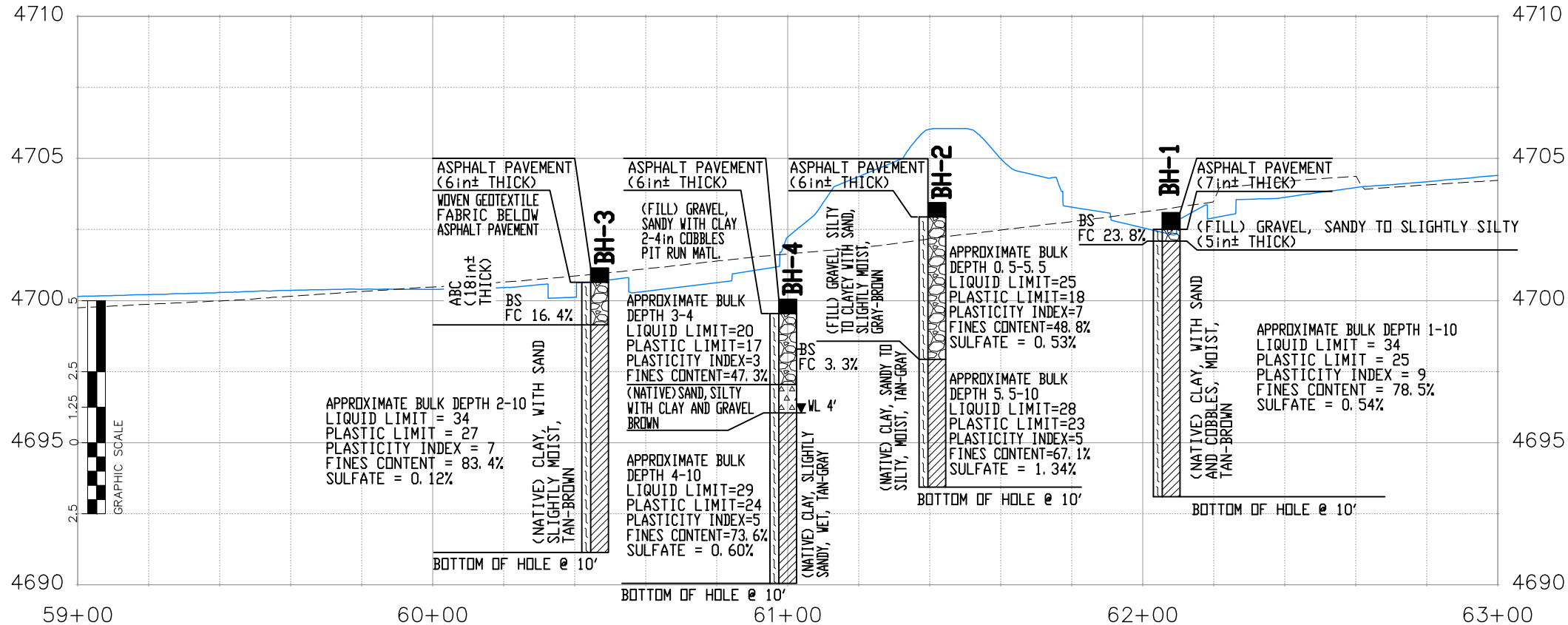
Structure Numbers  
Subset Sheets: X of X

Project No./Code  
SHE M555-034  
23652  
Sheet Number 32

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\0DESIGN\ENGINEERING GEOLOGY.dwg, 6/18/2024 7:16:21 AM



- NOTES:
- EXPLORATORY BORINGS WERE DRILLED AND SAMPLED ON APRIL 11, 2023 USING A 6" DIAMETER SOLID STEM AUGER, AND A TRUCK MOUNTED DRILL RIG.
  - THESE LOGS ARE SUBJECT TO THE EXPLANATIONS, LIMITATIONS, AND CONCLUSIONS AS CONTAINED IN THE GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN REPORT HORIZON DRIVE AND G ROAD ROUNDABOUT, CITY OF GRAND JUNCTION, COLORADO BY ROCKSOL CONSULTING GROUP DATED MAY 26, 2023.
  - THE LINES BETWEEN MATERIALS SHOWN ON THE EXPLORATORY BORING LOGS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND TRANSITIONS MAY BE GRADUAL.
  - THE COLORADO DEPARTMENT OF TRANSPORTATION AND CITY OF GRAND JUNCTION ACCEPTS NO RESPONSIBILITY FOR THE DATA SHOWN ON THIS SHEET.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY ADDITIONAL BORING LOGS AND/OR SOIL INFORMATION.

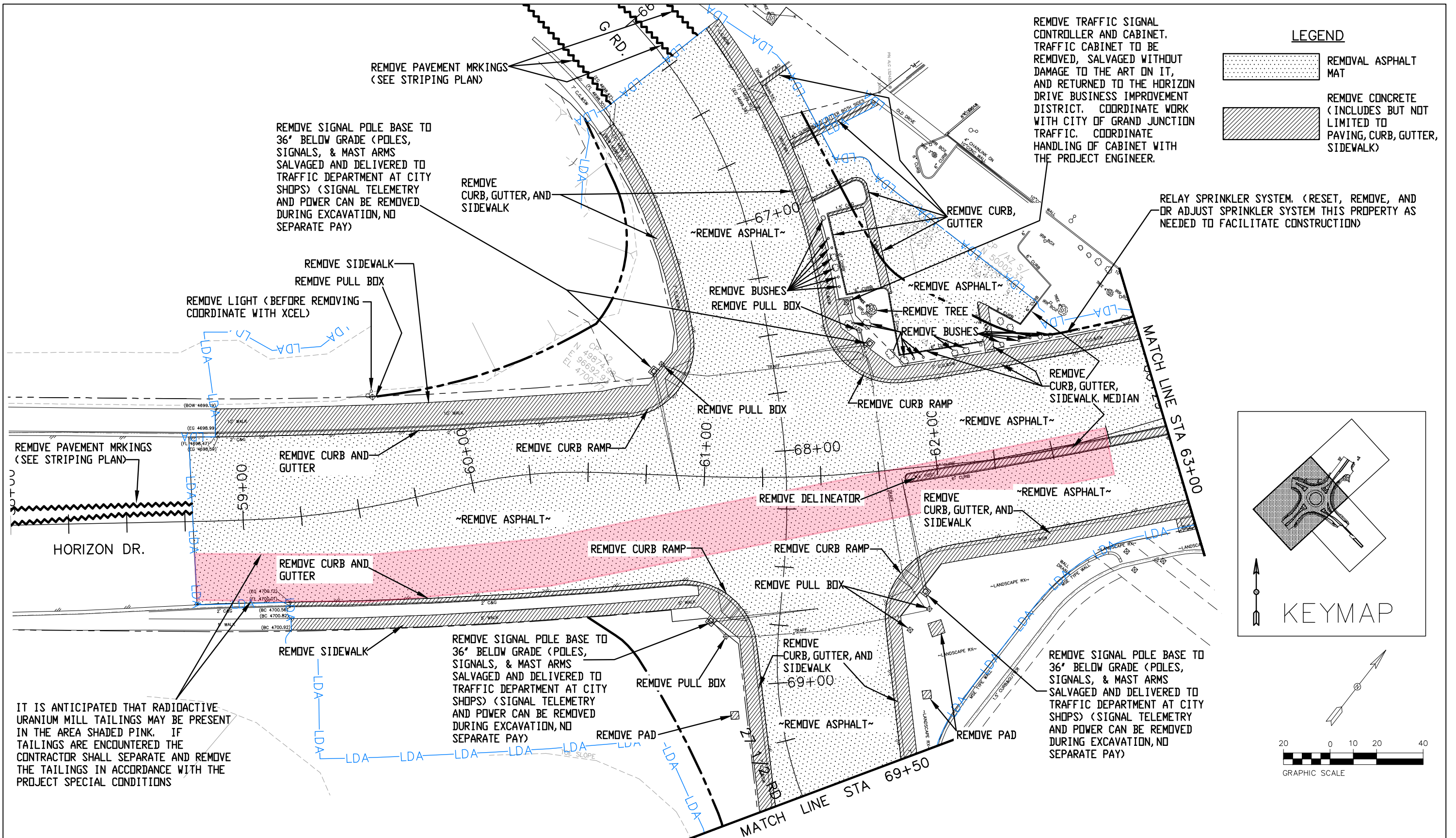


- LEGEND
- BH-1 BORE HOLE LOCATION
- ABBREVIATIONS:
- ABC AGGREGATE BASE COURSE
  - BC BLOW COUNT
  - BS BULK SAMPLE
  - DW DRY UNIT WEIGHT (PCF)
  - FC FINES CONTENT
  - MC MODIFIED CALIFORNIA SAMPLER
  - MoC MOISTURE CONTENT
  - SP SWELL POTENTIAL
  - SS SPLIT SPON SAMPLER
  - WL WATER LEVEL

Print Date: 6/18/2024 7:16:21 AM	Sheet Revisions			Colorado Department of Transportation		As Constructed		HORIZON DR AND G RD ROUNDABOUT		Project No./Code	
File Name: ENGINEERING GEOLOGY.dwg	Date:	Comments:	Init.	606 South 9th Street		No Revisions:		ENGINEERING GEOLOGY -		SHE M555-034	
Horiz. Scale: AS SHOWN Vert. Scale: NA				Grand Junction, CO, 81501		Revised:		Designer: JCS		23652	
Unit Information: City of GJ Unit Leader Initials: LF				Phone: 970-683-6351 FAX: 970-683-6369		Void:		Detailer: JCS		23652	
				Region 3 KC				ENGINEERING GEOLOGY		Sheet Number 33	
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554								Structure Numbers		X of X	

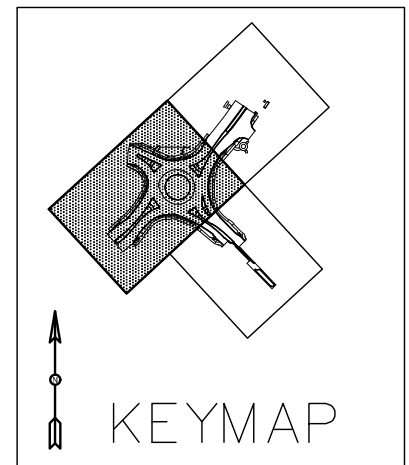


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**LEGEND**

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	REMOVE CONCRETE (INCLUDES BUT NOT LIMITED TO PAVING, CURB, GUTTER, SIDEWALK)

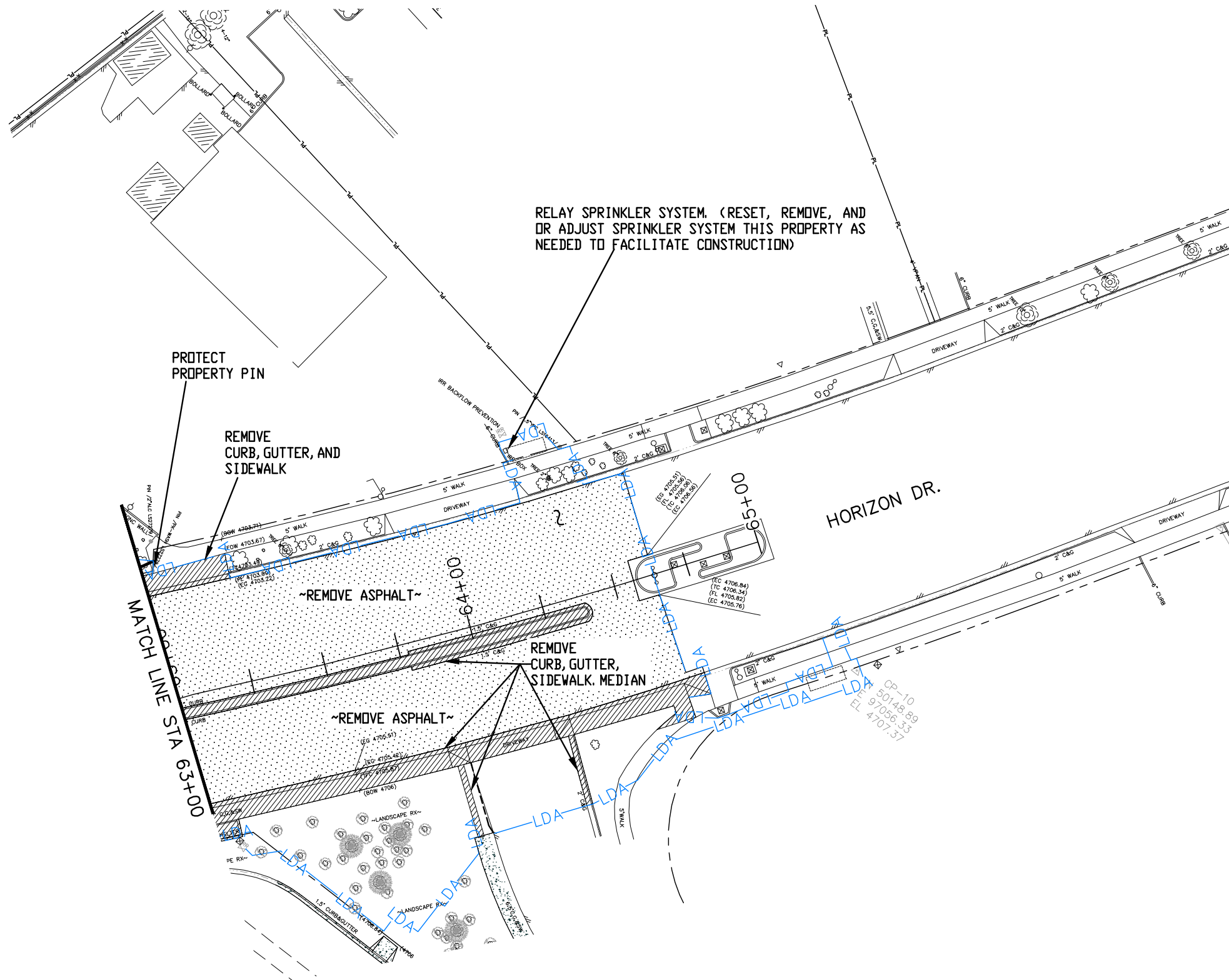


IT IS ANTICIPATED THAT RADIOACTIVE URANIUM MILL TAILINGS MAY BE PRESENT IN THE AREA SHADED PINK. IF TAILINGS ARE ENCOUNTERED THE CONTRACTOR SHALL SEPARATE AND REMOVE THE TAILINGS IN ACCORDANCE WITH THE PROJECT SPECIAL CONDITIONS

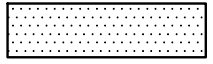
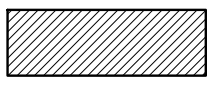
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Horiz. Scale: AS SHOWN				Grand Junction, CO, 81501		Revised:		58+00 TO 63+00		23652	
Unit Information: City of GJ				Phone: 970-683-6351 FAX: 970-683-6369		Void:		Designer: JCS		23652	
Unit Leader Initials: LF				Region 3				Detailer: JCS		23652	
				KC				Structure Numbers		23652	
333 WEST AVE, BLDG C								Sheet Subset: REMOVAL PLAN		Sheet Number 34	
Grand Junction, CO, 81501								Subset Sheets: X of X			
Phone: 970-244-1554											

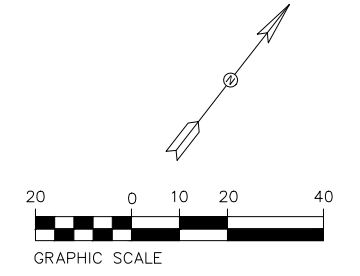
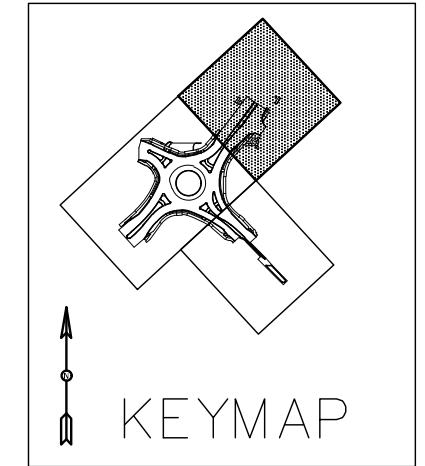



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**LEGEND**


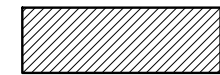
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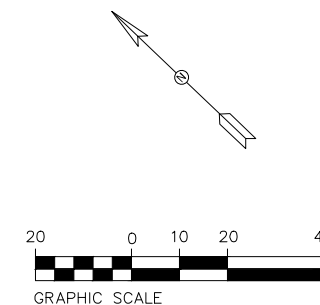
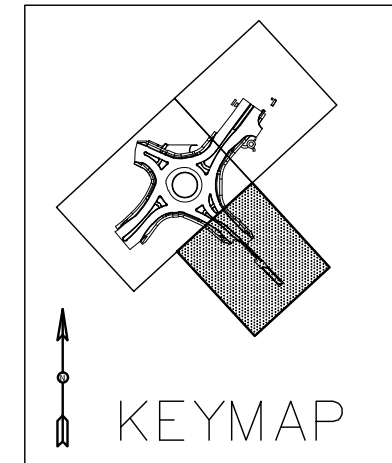
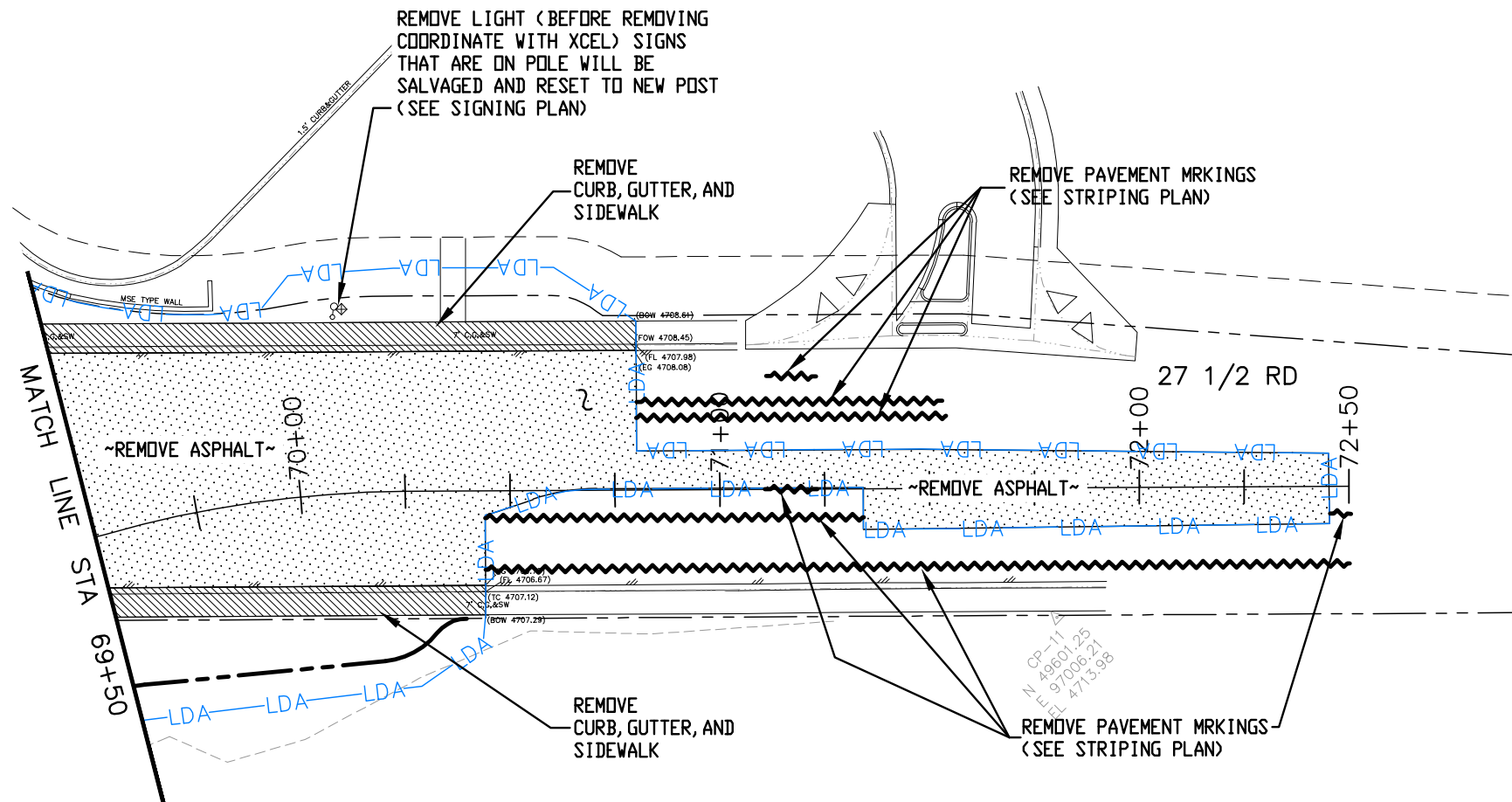


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Horiz. Scale: AS SHOWN      Vert. Scale: NA							23652				
Unit Information: City of GJ      Unit Leader Initials: LF							Sheet Number      35				
 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554							Designer: JCS      Structure Numbers Detailer: JCS Sheet Subset: REMOVAL PLAN      Subset Sheets: X of X				

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**LEGEND**

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-  REMOVE CONCRETE (INCLUDES BUT NOT LIMITED TO PAVING, CURB, GUTTER, SIDEWALK)



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 COLORADO 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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

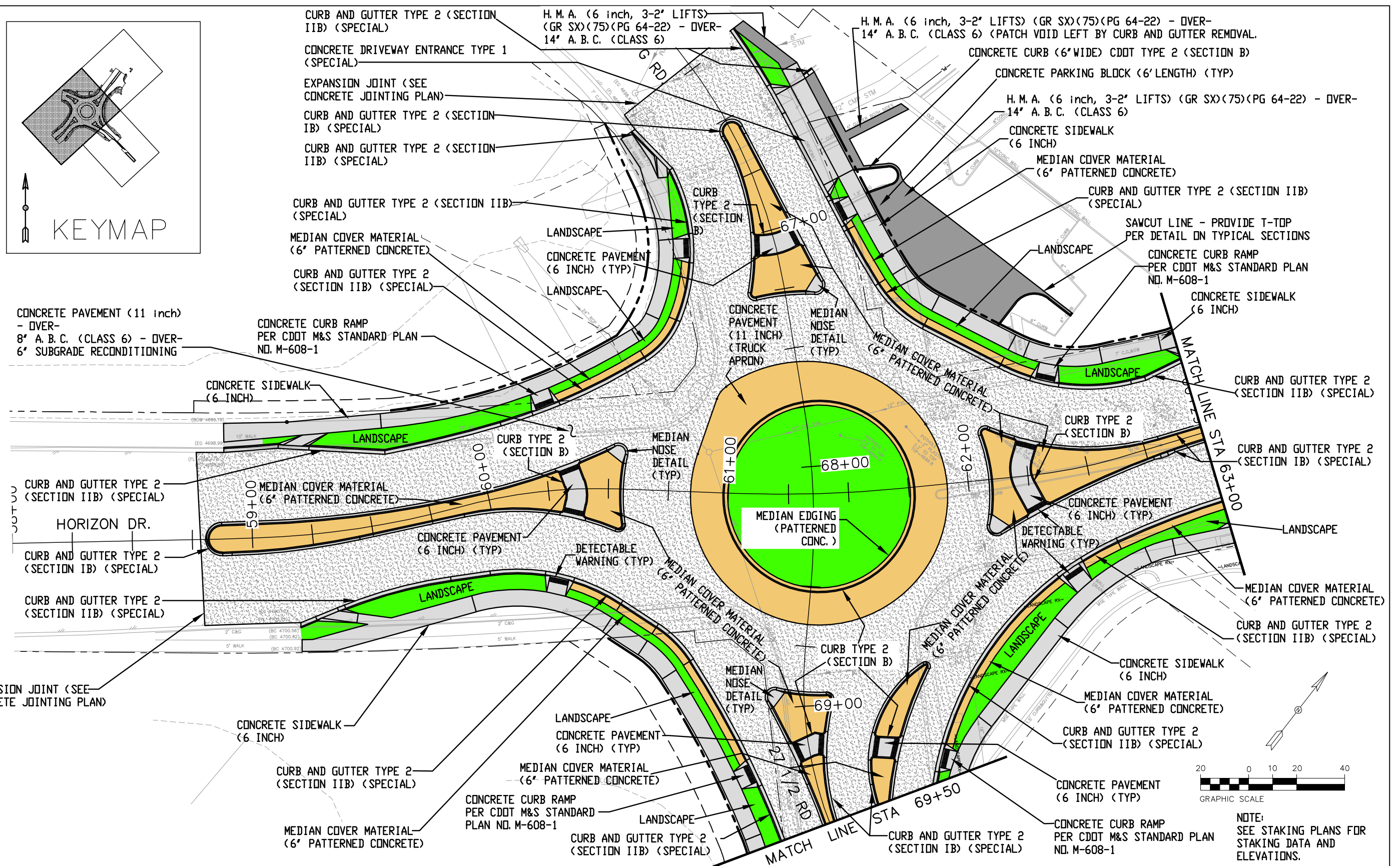
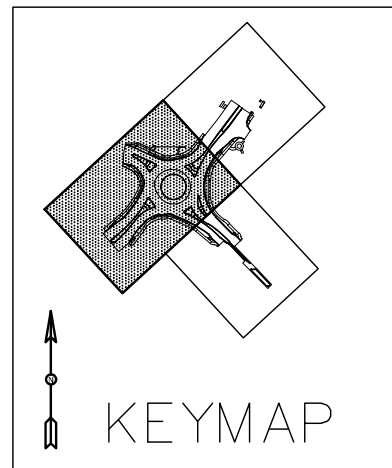
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HORIZON DR AND G RD ROUNDABOUT  
 REMOVAL PLAN - 3 STA  
 69+50 TO 72+00  
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 Detailer: JCS  
 Sheet Subset: REMOVAL PLAN  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 36



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NOTE:  
SEE STAKING PLANS FOR  
STAKING DATA AND  
ELEVATIONS.

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<b>CITY OF GRAND JUNCTION</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
Region 3

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

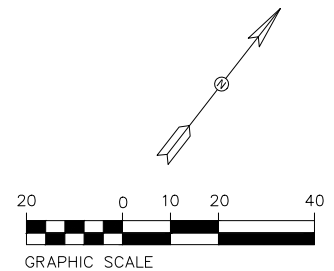
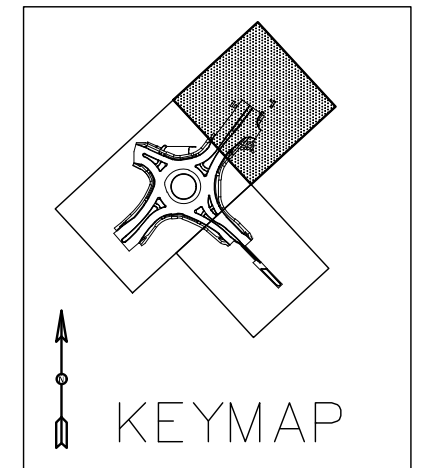
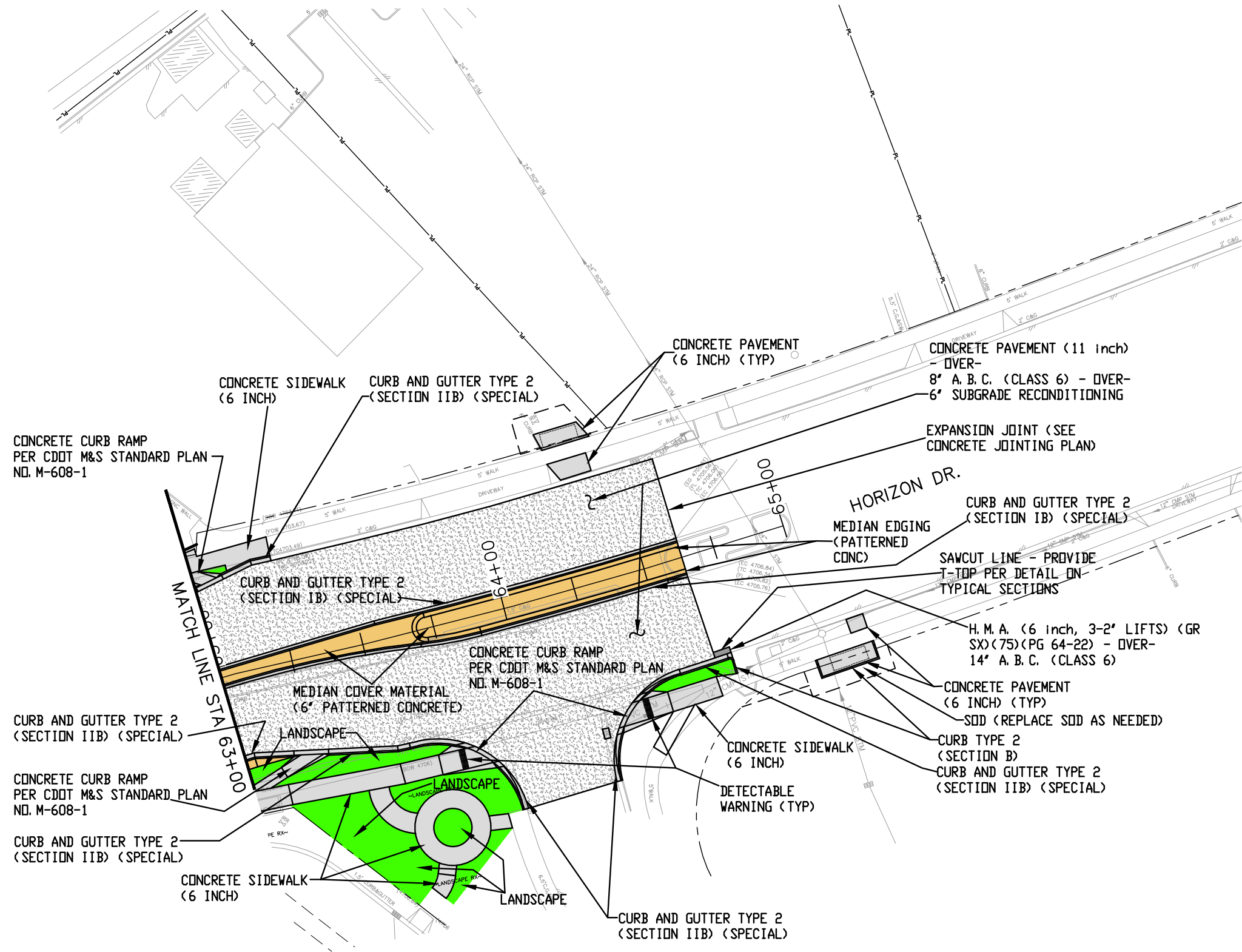
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Project No./Code
SHE M555-034
23652
Sheet Number 37



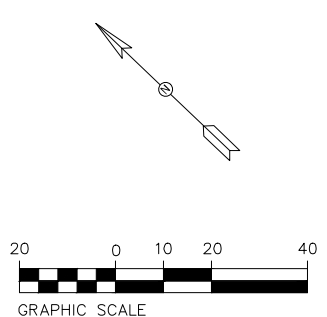
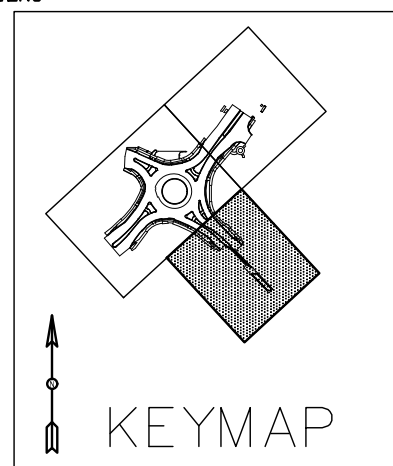
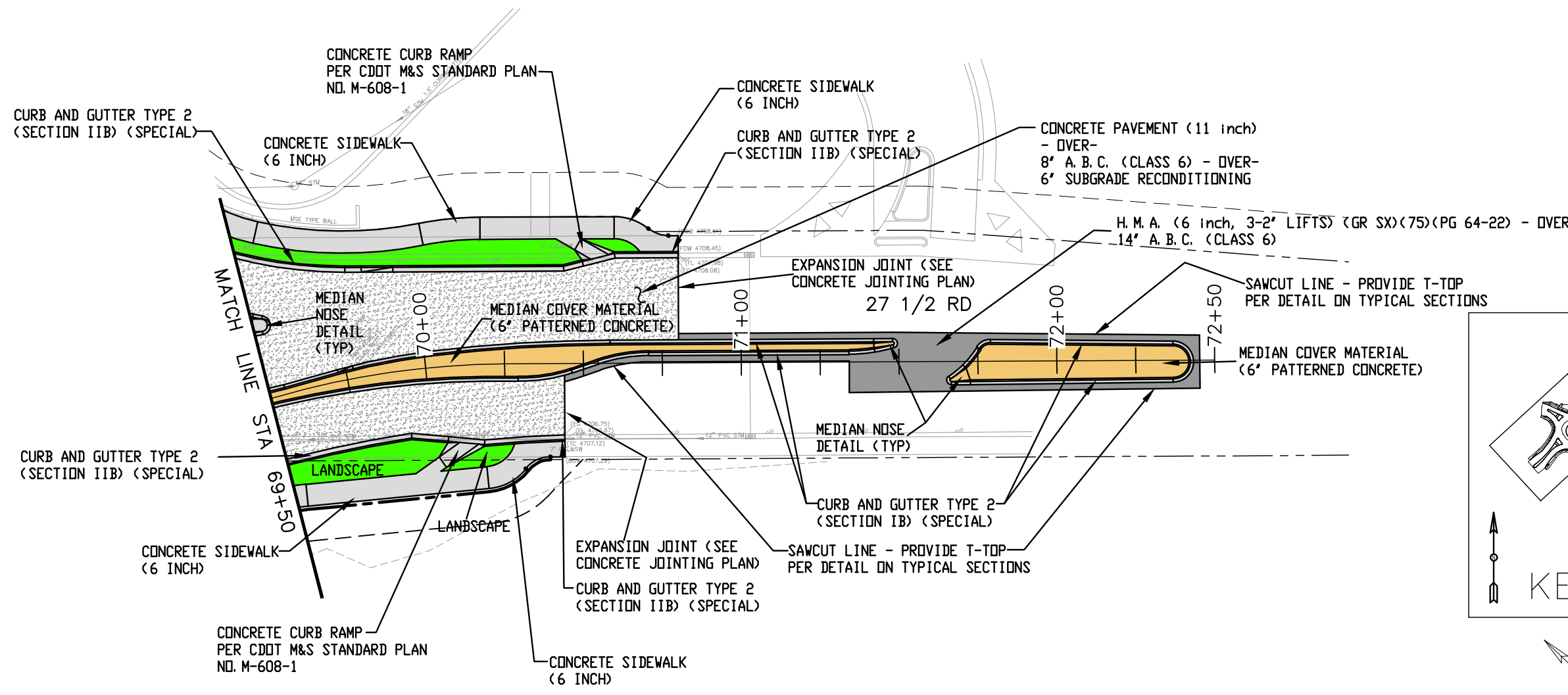
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NOTE:  
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DATA AND ELEVATIONS.

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 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554							Detailer: JCS	Subset Sheets: X of X		Sheet Number 38

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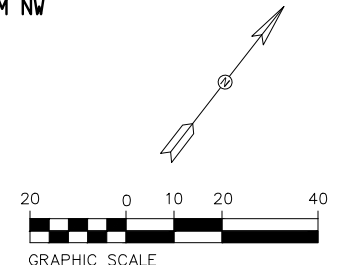
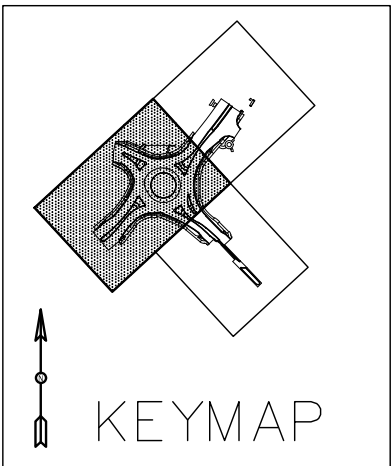
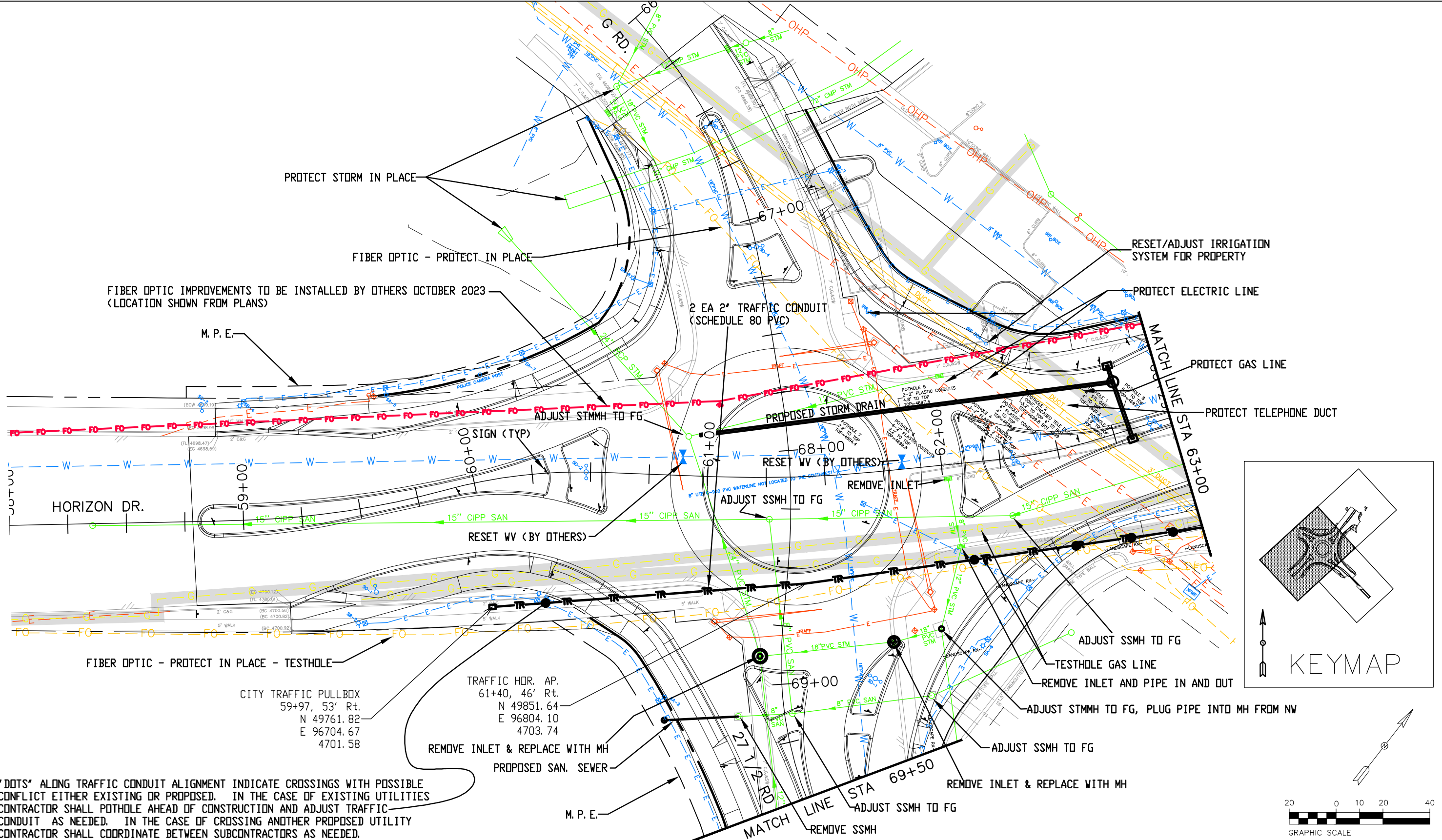


NOTE:  
SEE STAKING PLANS FOR STAKING DATA AND ELEVATIONS.

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File Name: ROADWAY PLAN.DWG		Date:	Comments:	Init.:			ROADWAY PLAN - 3	SHE M555-034	
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333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554					Void:	Detailer: JCS	Subset Sheets: X of X	39	




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\*DOTS\* ALONG TRAFFIC CONDUIT ALIGNMENT INDICATE CROSSINGS WITH POSSIBLE CONFLICT EITHER EXISTING OR PROPOSED. IN THE CASE OF EXISTING UTILITIES CONTRACTOR SHALL POTHOLE AHEAD OF CONSTRUCTION AND ADJUST TRAFFIC CONDUIT AS NEEDED. IN THE CASE OF CROSSING ANOTHER PROPOSED UTILITY CONTRACTOR SHALL COORDINATE BETWEEN SUBCONTRACTORS AS NEEDED.

Print Date: 6/18/2024 7:16:30 AM
File Name: UTILITY PLAN.DWG
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Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF GRAND JUNCTION</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

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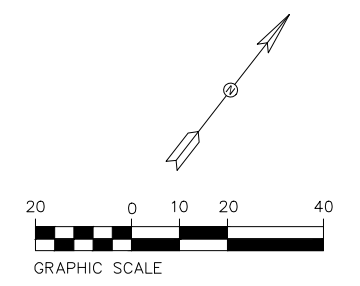
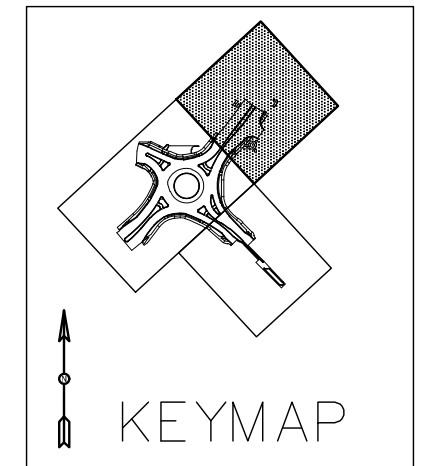
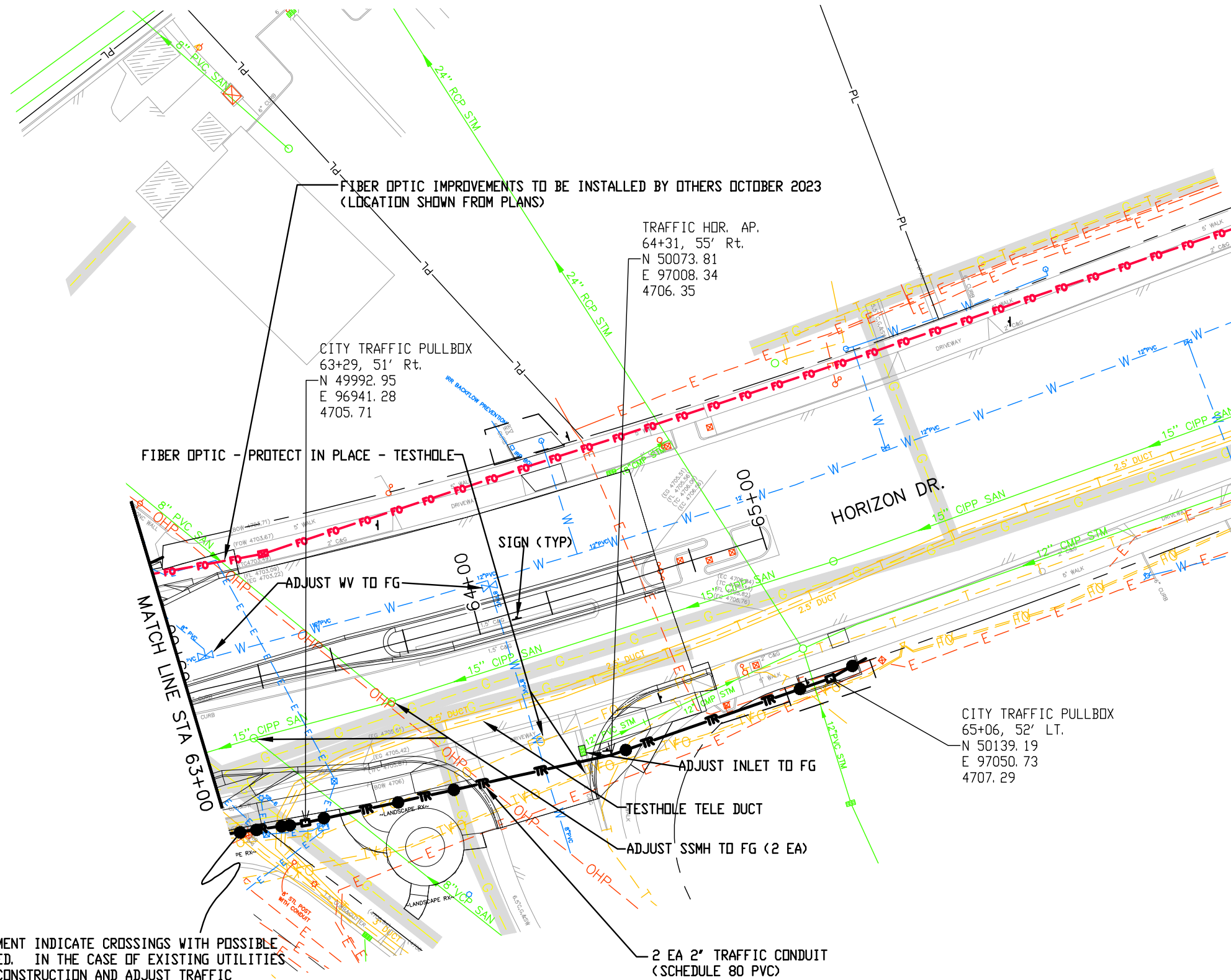
Colorado Department of Transportation  
  
 606 South 9th Street  
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 Phone: 970-683-6351 FAX: 970-683-6369  
 Region 3      KC

As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT UTILITY PLAN - 1 STA 58+00 TO 63+00			
Designer: JCS	Structure Numbers		
Detailer: JCS	Subset Sheets:	X of X	
Sheet Subset: UTILITY PLAN			

Project No./Code	SHE M555-034
23652	
Sheet Number	40

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'DOTS' ALONG TRAFFIC CONDUIT ALIGNMENT INDICATE CROSSINGS WITH POSSIBLE CONFLICT EITHER EXISTING OR PROPOSED. IN THE CASE OF EXISTING UTILITIES CONTRACTOR SHALL POT HOLE AHEAD OF CONSTRUCTION AND ADJUST TRAFFIC CONDUIT AS NEEDED. IN THE CASE OF CROSSING ANOTHER PROPOSED UTILITY CONTRACTOR SHALL COORDINATE BETWEEN SUBCONTRACTORS AS NEEDED.

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<b>CITY OF GRAND JUNCTION</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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

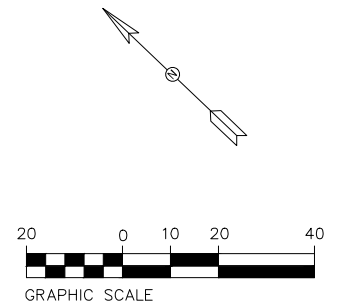
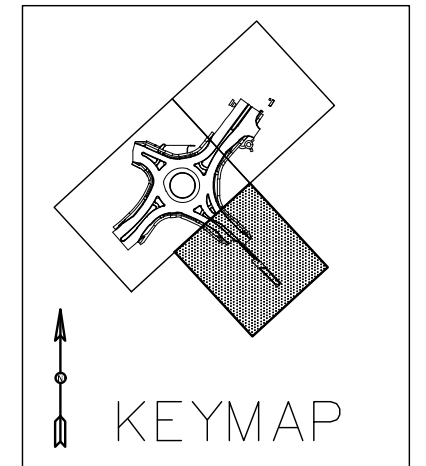
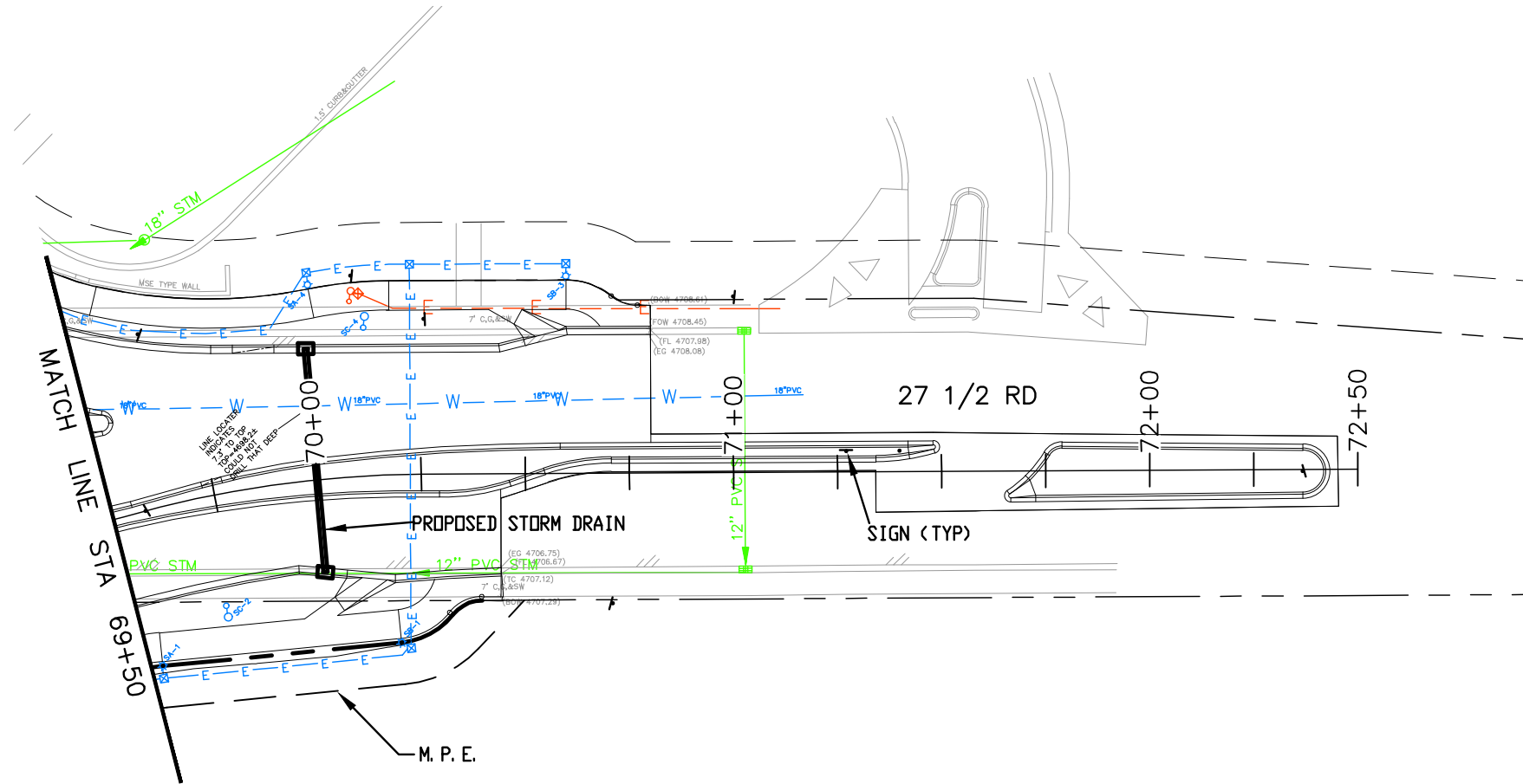
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HORIZON DR AND G RD ROUNDABOUT UTILITY PLAN - 2 STA 63+00 TO 65+00	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: UTILITY PLAN	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 41

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**CITY OF Grand Junction**  
 COLORADO  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

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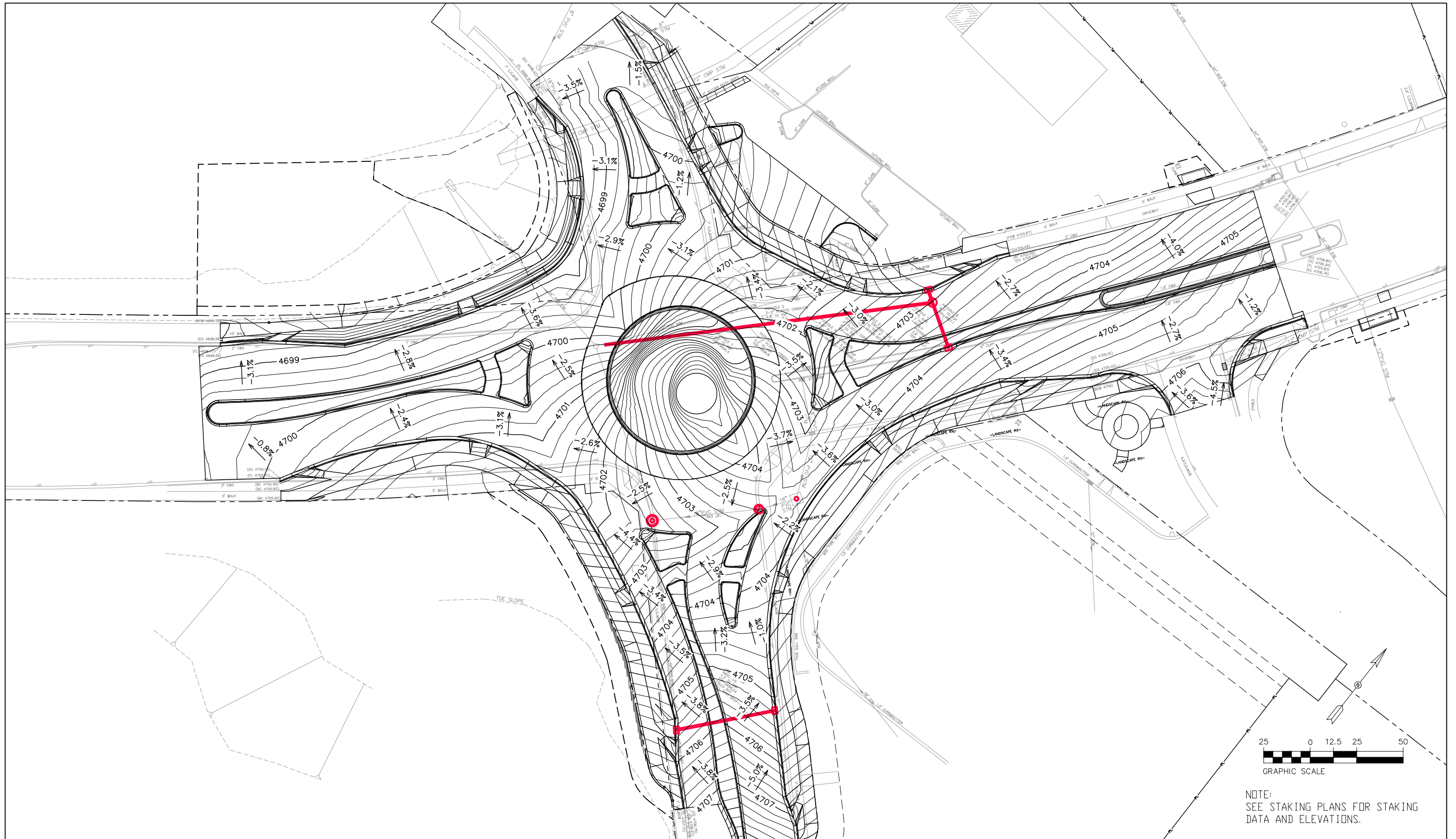
Colorado Department of Transportation  
  
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 Grand Junction, CO, 81501  
 Phone: 970-683-6351 FAX: 970-683-6369  
 Region 3 KC

As Constructed  
 No Revisions:  
 Revised:  
 Void:

HORIZON DR AND G RD ROUNDABOUT  
 UTILITY PLAN - 3 STA  
 69+50 TO 72+00  
 Designer: JCS  
 Detailer: JCS  
 Sheet Subset: UTILITY PLAN  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 42





GRAPHIC SCALE

NOTE:  
SEE STAKING PLANS FOR STAKING  
DATA AND ELEVATIONS.

Print Date: 6/18/2024 7:18:55 AM  
 File Name: TWO TENTH FT CONTOUR MAP.dwg  
 Horiz. Scale: AS SHOWN    Vert. Scale: NA  
 Unit Information: City of GJ    Unit Leader Initials: LF  
**CITY OF Grand Junction**    333 WEST AVE, BLDG C  
 COLORADO    Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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

As Constructed
No Revisions:
Revised:
Void:

**HORIZON DR AND G RD ROUNDABOUT  
TWO TENTH FT CONTOUR  
MAP - 1**


Designer: JCS
Detailer: JCS
Sht Subset: TWO TENTH FT CONTOUR MAP
Structure Numbers
Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 43


N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\DESIGN\TABULATION OF DRAINAGE ITEMS.dwg, 6/18/2024 7:18:56 AM

**TABULATION OF DRAINAGE ITEMS**

STATION	(603-50012) 12 Inch Plastic Pipe (PVC-COMplete IN PLACE)		(604-19005) INLET SPECIAL (5 FOOT)		(604-19010) INLET SPECIAL (10 FOOT)		(604-30010) MANHOLE SLAB BASE (10 FOOT)		COMMENTS
	LF		EA		EA		EA		
	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	
<b>HORIZON DRIVE</b>									
60+96, 18' LT TO 62+81, 22' LT	177								PIPE (A2)
62+81, 22' LT							1		MH (A1)
62+80, 29' LT			1						INLET (AA1)
62+80, 29' LT TO 62+81, 22' LT	7								PIPE (AA2)
62+81, 22' LT TO 62+82, 4' RT	26								PIPE (AA3)
62+82, 4' RT					1				INLET (AA4)
<b>27 1/2 ROAD</b>									
68+88, 9' RT							1		MH (R7)
68+79, 48' LT							1		MH (R8)
70+00, 22' RT						1			INLET (B1)
70+00, 22' RT TO 70+00, 32' LT	54								PIPE (B2)
70+00, 32' LT			1						INLET (B3)
<b>SHEET 1 SUBTOTAL</b>									
	<b>264</b>		<b>2</b>		<b>2</b>		<b>3</b>		

Print Date: 6/18/2024 7:18:56 AM  
 File Name: TABULATION OF DRAINAGE ITEMS.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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

As Constructed  
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 Revised:  
 Void: TABULATION OF DRAINAGE ITEMS

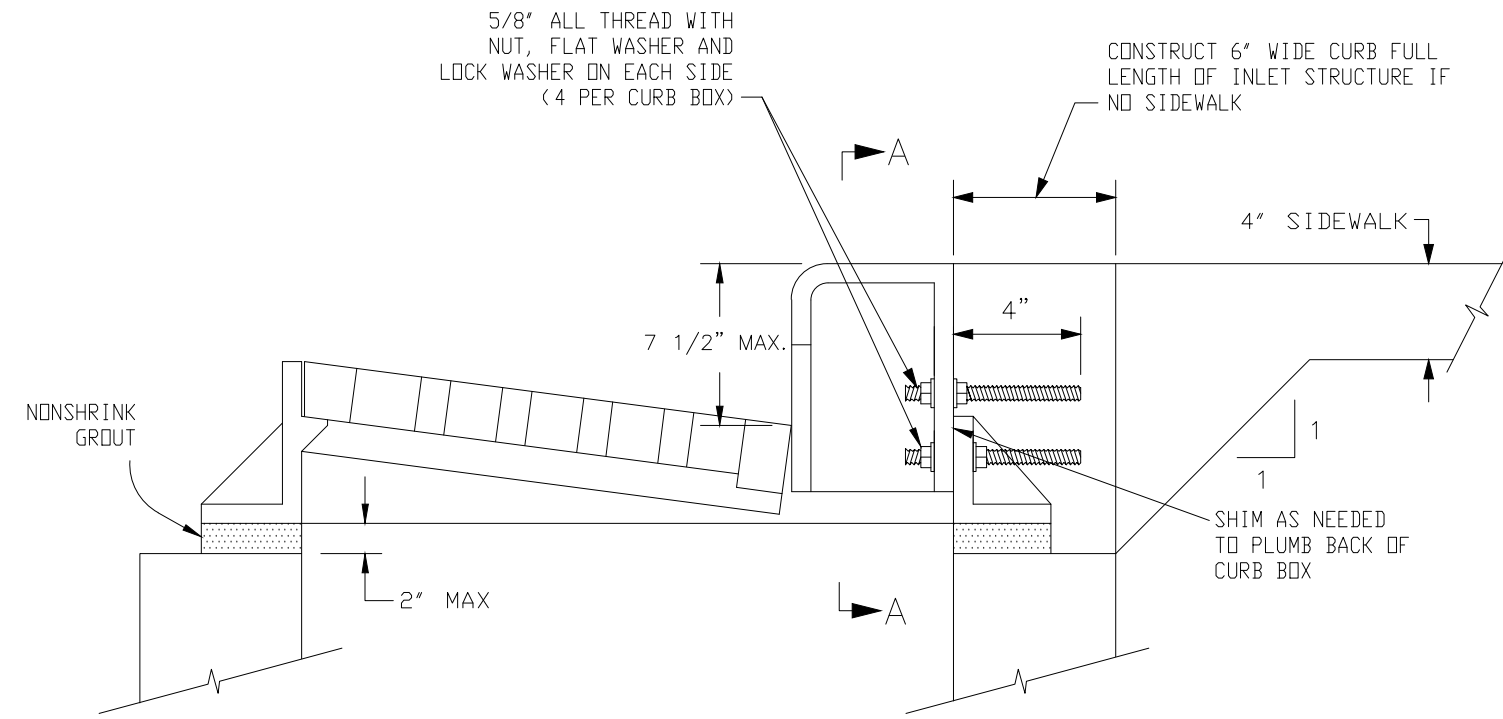
HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF DRAINAGE  
 ITEMS - 1

Designer: JCS  
 Detailer: JCS

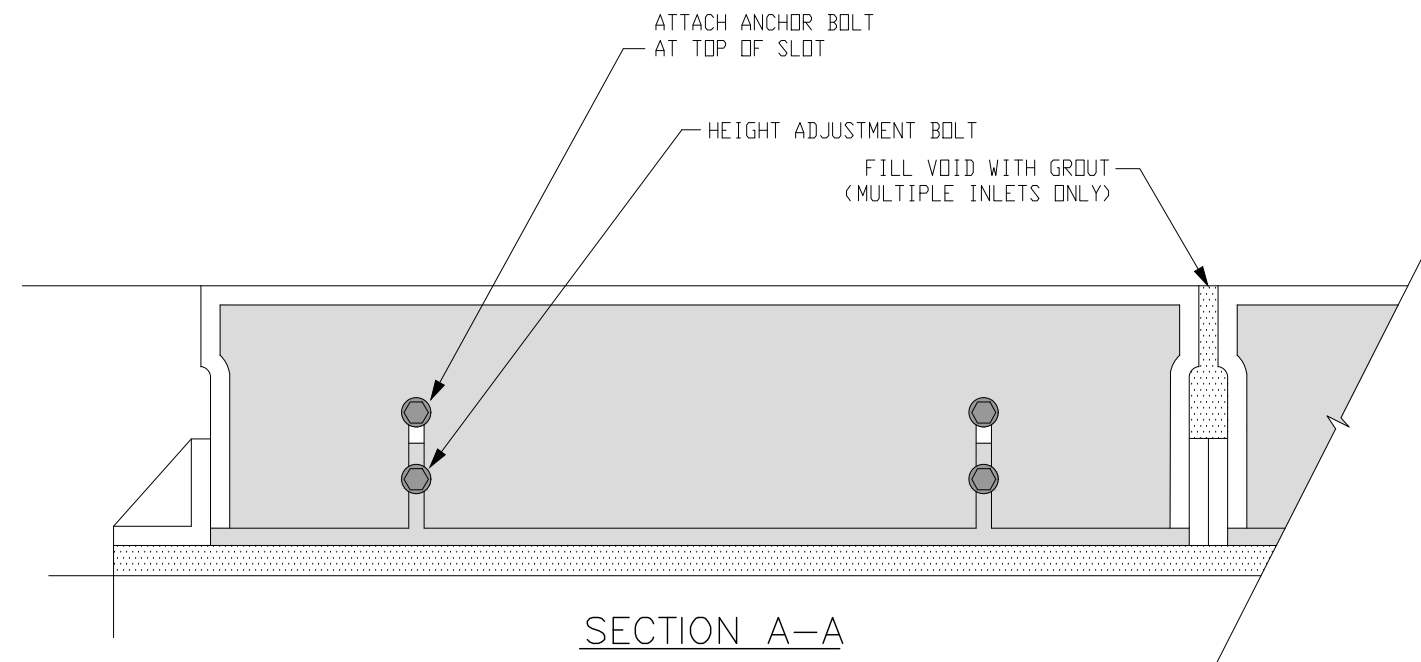
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Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 44

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\0DES\IGN\Drainage Details.dwg, 6/18/2024 7:18:57 AM



**SIDE VIEW**  
N.T.S.



**SECTION A-A**  
N.T.S.

**INLET CURB BOX DETAIL**

Print Date: 6/18/2024 7:18:57 AM	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Unit Information: City of GJ      Unit Leader Initials: LF	

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Date:	Comments	Init.

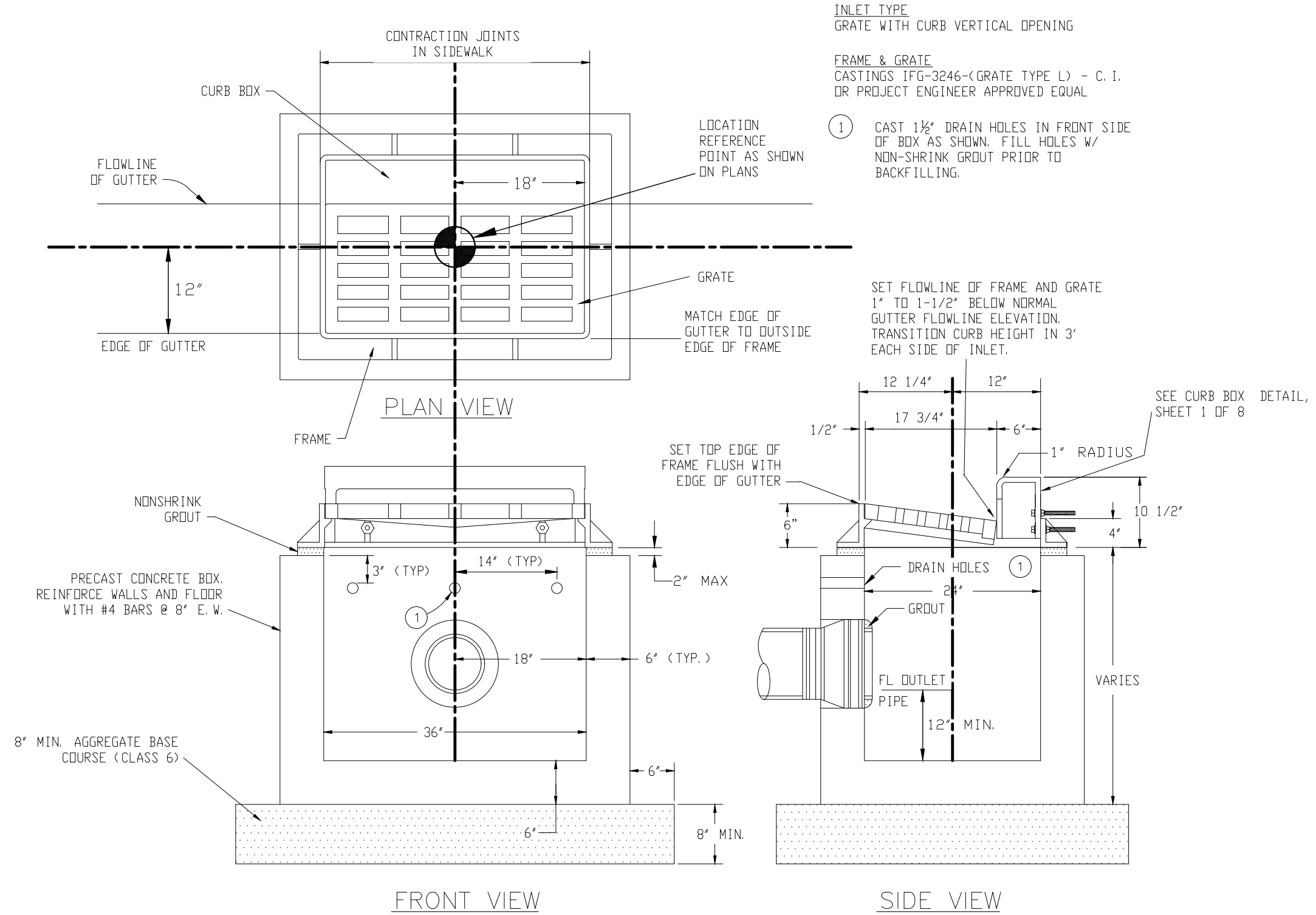
Colorado Department of Transportation

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

Region 3      KC

As Constructed	HORIZON DR AND G RD ROUNDABOUT DRAINAGE DETAILS - SHEET 1	
No Revisions:	Designer: JCS	Structure Numbers
Revised:	Detailer: JCS	
Void:	Sheet Subset: DRAINAGE DETAILS	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 45



**INLET SPECIAL**

Print Date: 6/18/2024 7:18:57 AM	
File Name: Drainage Details.dwg	
Horiz. Scale: AS SHOWN Vert. Scale: NA	
Unit Information: City of GJ Unit Leader Initials: LF	
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554	

Sheet Revisions		
Date:	Comments	Init.

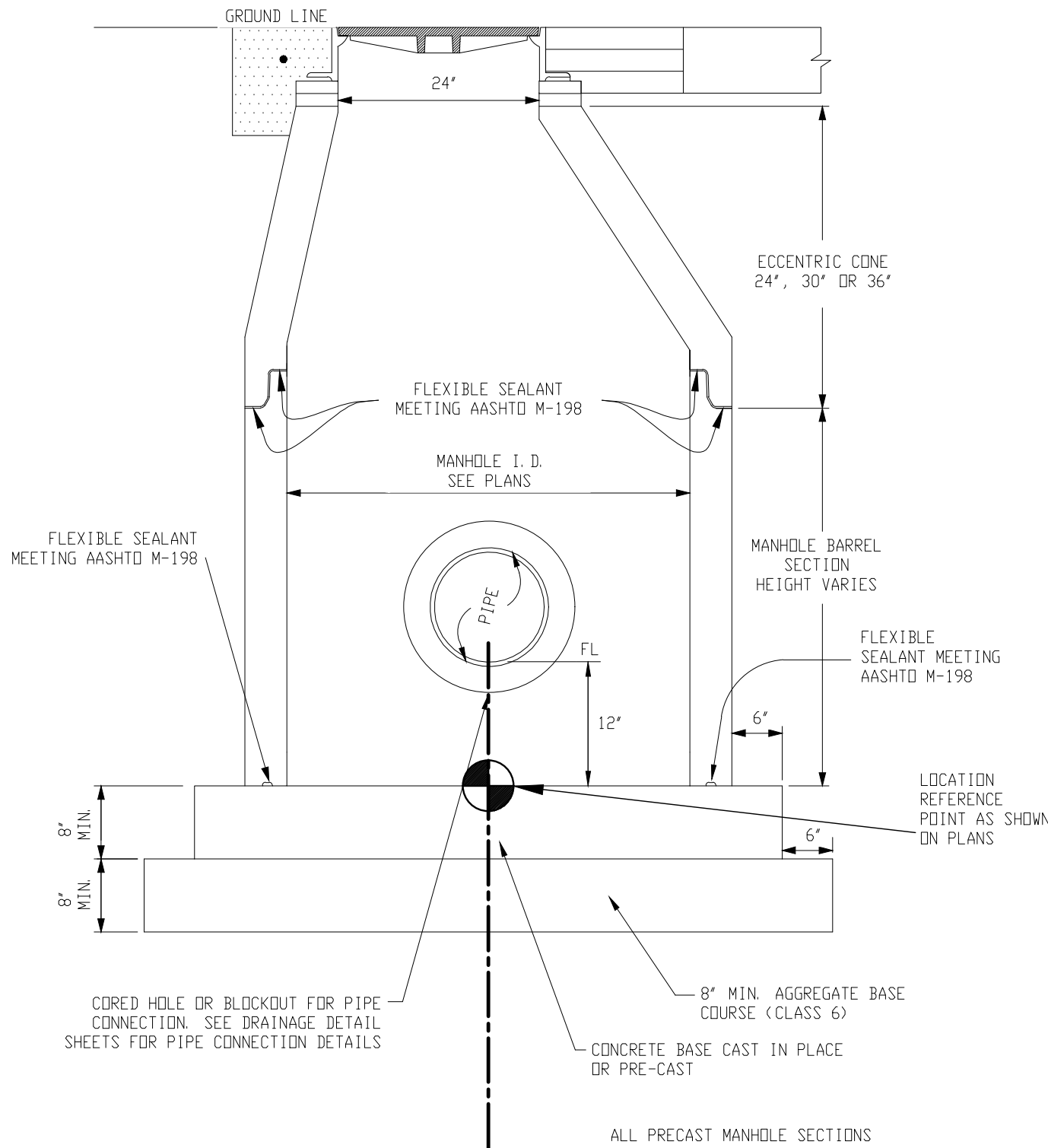
Colorado Department of Transportation

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

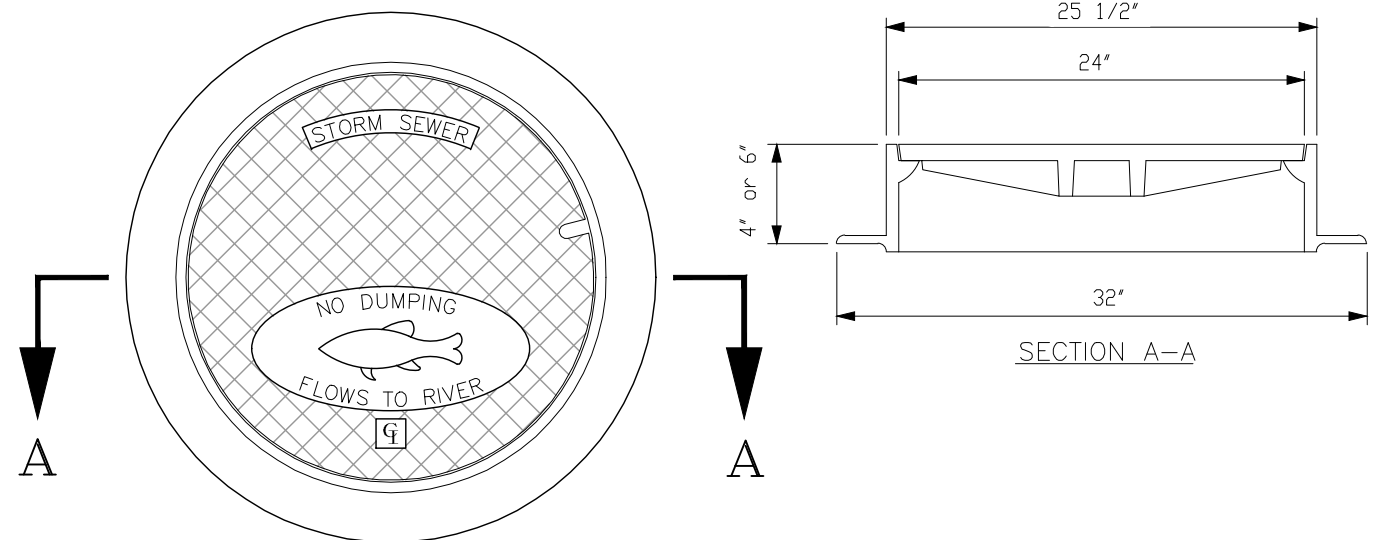
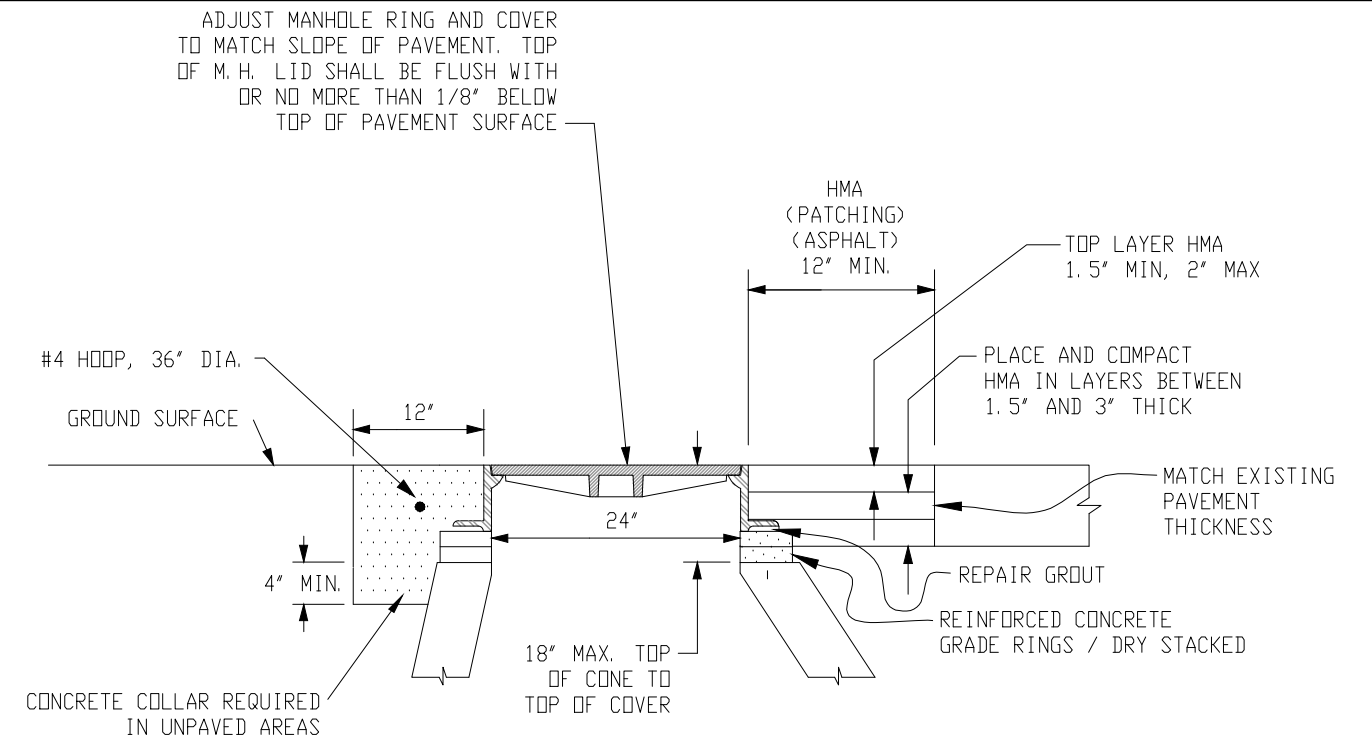
Region 3 KC

As Constructed	HORIZON DR AND G RD ROUNDABOUT		Project No./Code
	DRAINAGE DETAILS -		
	SHEET 2		23652
	No Revisions:	Designer: JCS	
Revised:	Detailer: JCS	Sheet Subset: DRAINAGE DETAILS	Subst Sheets: X of X
Void:			Sheet Number 46

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ALL PRECAST MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478 OR AASHTO M-199.  
STEPS REQUIRED IN STORM SEWER MANHOLES.



STANDARD M. H. RING & COVER (CASTINGS INC. 24-B-CI (FISH) OR PROJECT ENGINEER APPROVED EQUAL

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

### MANHOLE SLAB BASE RING AND COVER

Print Date: 6/18/2024 7:18:58 AM
File Name: Drainage Details.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF Grand Junction COLORADO</b>
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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

Region 3      KC

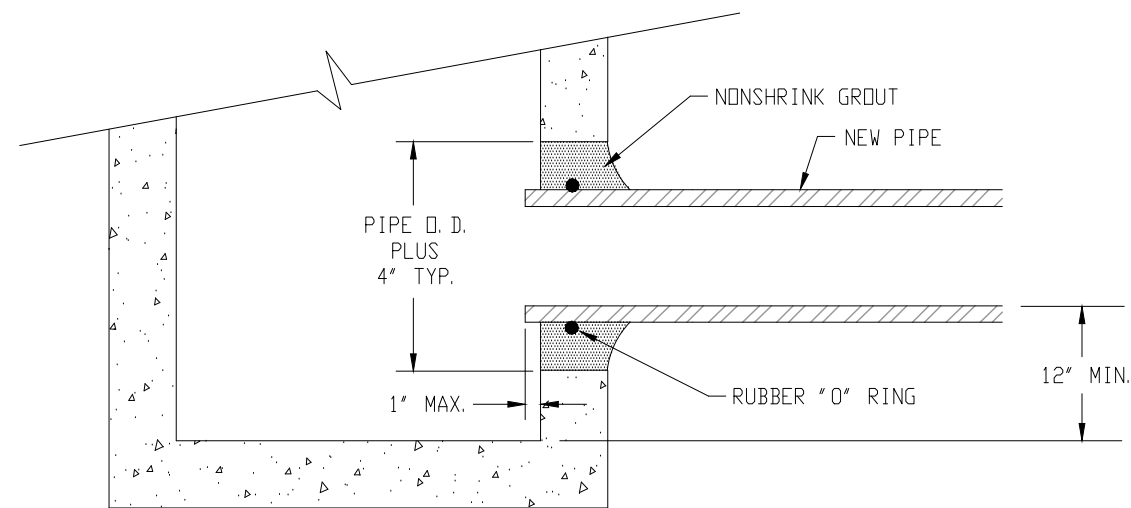
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No Revisions:	Designer: JCS	Structure Numbers
Revised:	Detailer: JCS	
Void:	Sheet Subset: DRAINAGE DETAILS	Subset Sheets: X of X

Project No./Code	SHE M555-034
	23652
Sheet Number	47

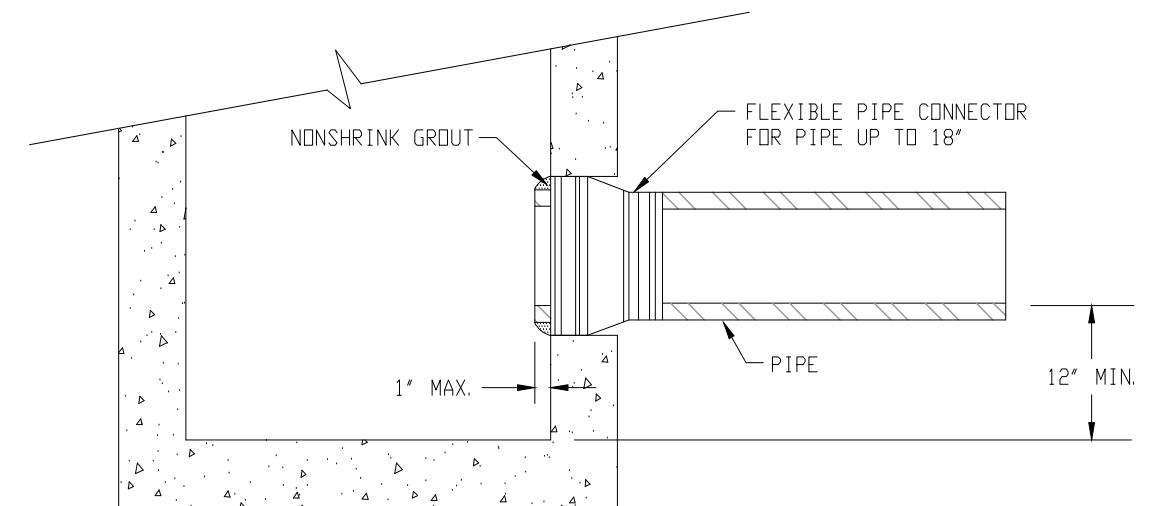
N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\0DESIGN\Drainage Details.dwg, 6/18/2024 7:18:58 AM

### GENERAL NOTES

1. BACKFILL AROUND MANHOLES, INLET BOXES, AND OTHER STRUCTURES SHALL BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 95% AASHTO T-180.
2. ALL BACKFILL MATERIAL SHALL BE UNIFORMLY ADJUSTED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT AND COMPACTION.
3. ALL PORTLAND CEMENT CONCRETE SHALL BE CLASS "B". (SECTION 601.02).
4. ANY EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
5. SEE APPROVED CONSTRUCTION DRAWINGS FOR ALL LOCATIONS, GRADES AND ELEVATIONS OF ALL DRAINAGE IMPROVEMENTS.
6. MANHOLE RING AND COVER AND INLET GRATE AND FRAME SHALL BE ADJUSTED TO FINISHED GRADE USING NON-SHRINK GROUT AND PRE-CAST CONCRETE GRADE RINGS. GROUT THICKNESS SHALL NOT EXCEED 2 INCHES. GROUT SHALL BE PLACED UNDER THE CAST IRON RING OR FRAME. NO GROUT SHALL BE PLACED BETWEEN THE CONCRETE GRADE RINGS. STEEL GRADE ADJUSTMENT RINGS MAY BE USED FOR ADJUSTMENT OF MANHOLE COVERS ONLY WHEN STREETS ARE OVERLAID.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS.
8. STORM DRAIN INLET BOXES MAY BE MADE FROM STACKABLE PRECAST BOX SECTIONS WITH TONGUE AND GROOVE JOINTS AND FLEXIBLE SEALANT BETWEEN SECTIONS. THE TOP SECTION OF THE INLET BOX SHALL HAVE A GROOVE-LESS FLAT SURFACE TO SUPPORT THE INLET FRAME AND GRATE.



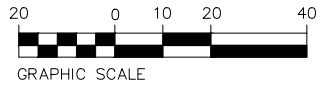
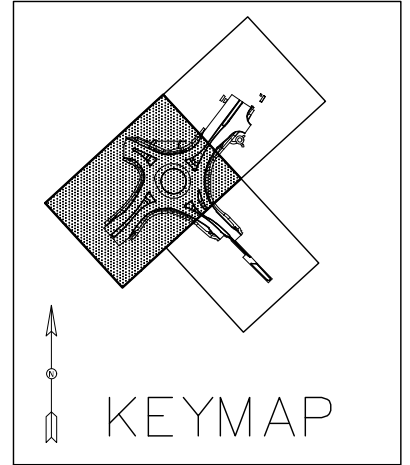
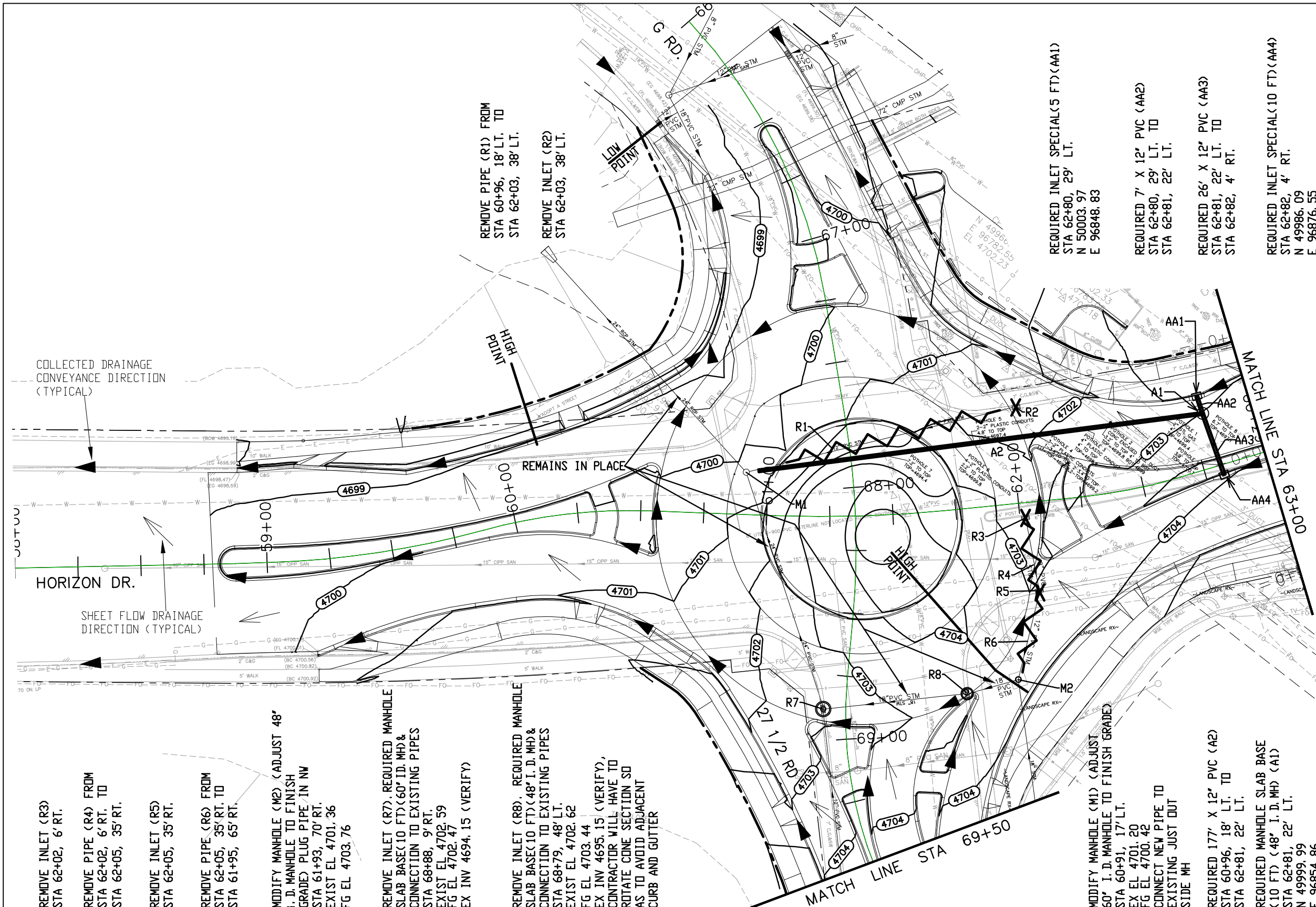
**GROUTED PIPE CONNECTION**  
(FOR CONNECTIONS TO EXISTING STRUCTURES)



**PVC PIPE CONNECTION**  
**INLET CURB BOX DETAIL**

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Horiz. Scale: AS SHOWN Vert. Scale: NA						Revised:	Designer: JCS	Structure Numbers	23652
Unit Information: City of GJ Unit Leader Initials: LF						Void:	Detailer: JCS	Sheet Subset: DRAINAGE DETAILS	Subset Sheets: X of X
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554									





NOTE:  
SEE STAKING PLANS FOR STAKING DATA AND ELEVATIONS.

COORDINATES SHOWN ARE TO CENTER OF STRUCTURE

Print Date: 6/18/2024 7:21:11 AM
File Name: GRADING AND DRAINAGE PLAN.dwg
Horiz. Scale: AS SHOWN Vert. Scale: NA
Unit Information: City of GJ Unit Leader Initials: LF
<b>CITY OF GRAND JUNCTION</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

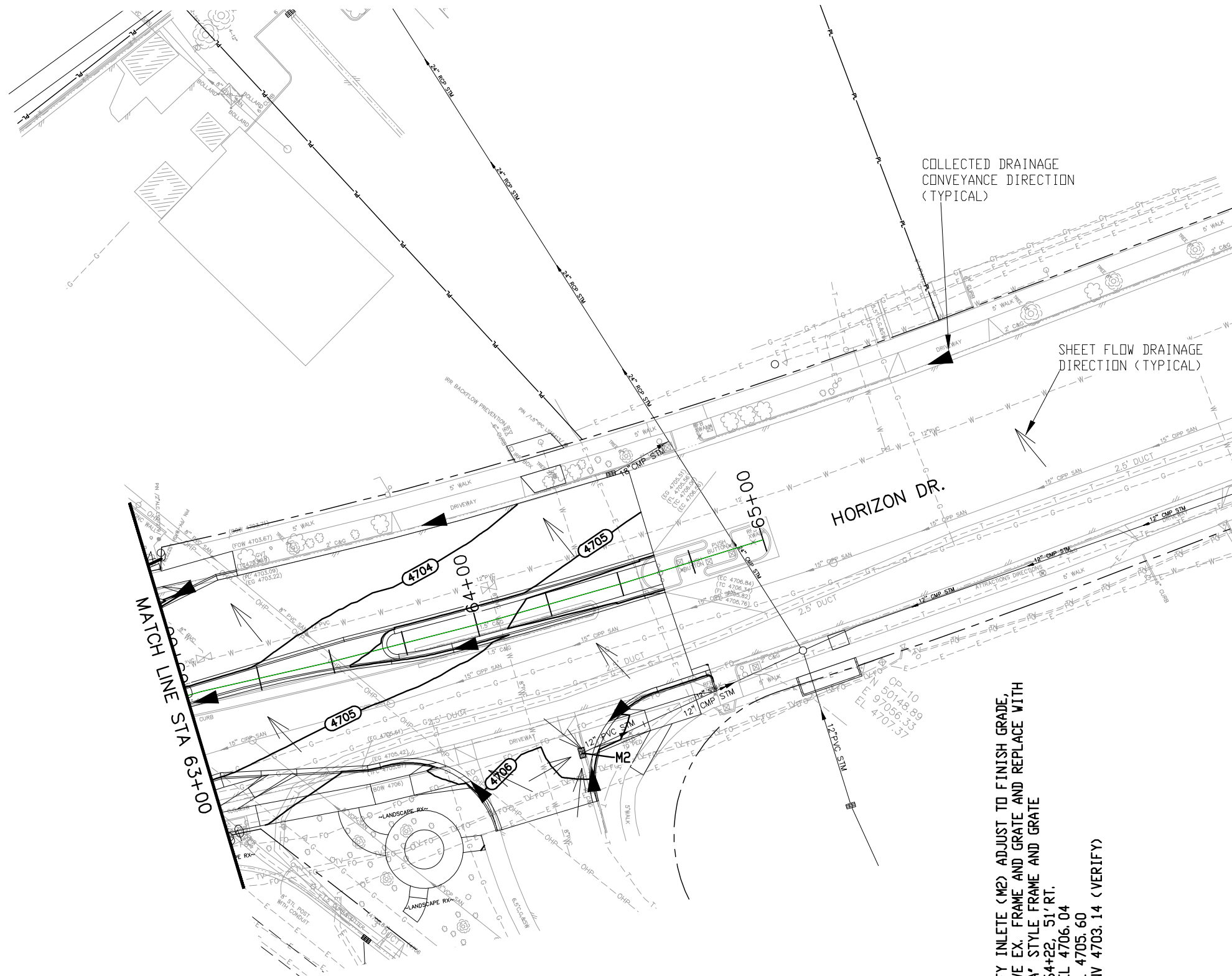
Colorado Department of Transportation  
 606 South 9th Street  
 Grand Junction, CO, 81501  
 Phone: 970-683-6351 FAX: 970-683-6369  
 Region 3 KC

As Constructed
No Revisions:
Revised:
Void:

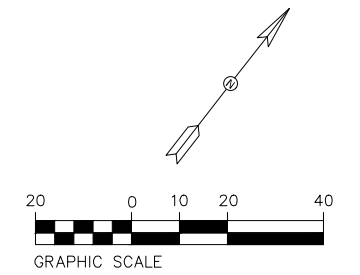
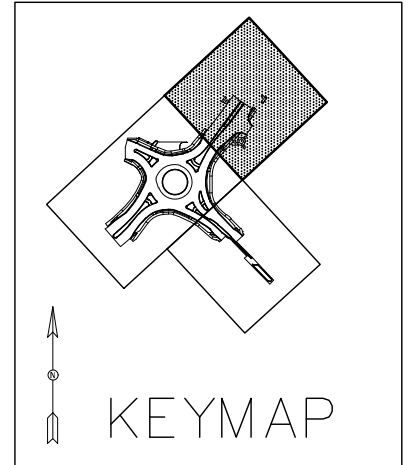
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Designer: JCS	Structure Numbers
Detailer: JCS	
Sht Subset: GRADING AND DRAINAGE PLAN	Subset Sheets: X of X

Project No./Code	23652
SHE M555-034	
Sheet Number	49

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MODIFY INLET (M2) ADJUST TO FINISH GRADE,  
 REMOVE EX. FRAME AND GRATE AND REPLACE WITH  
 'AREA' STYLE FRAME AND GRATE  
 STA 64+22, 51' RT.  
 EX. EL 4706.04  
 FG EL 4705.60  
 EX INV 4703.14 (VERIFY)

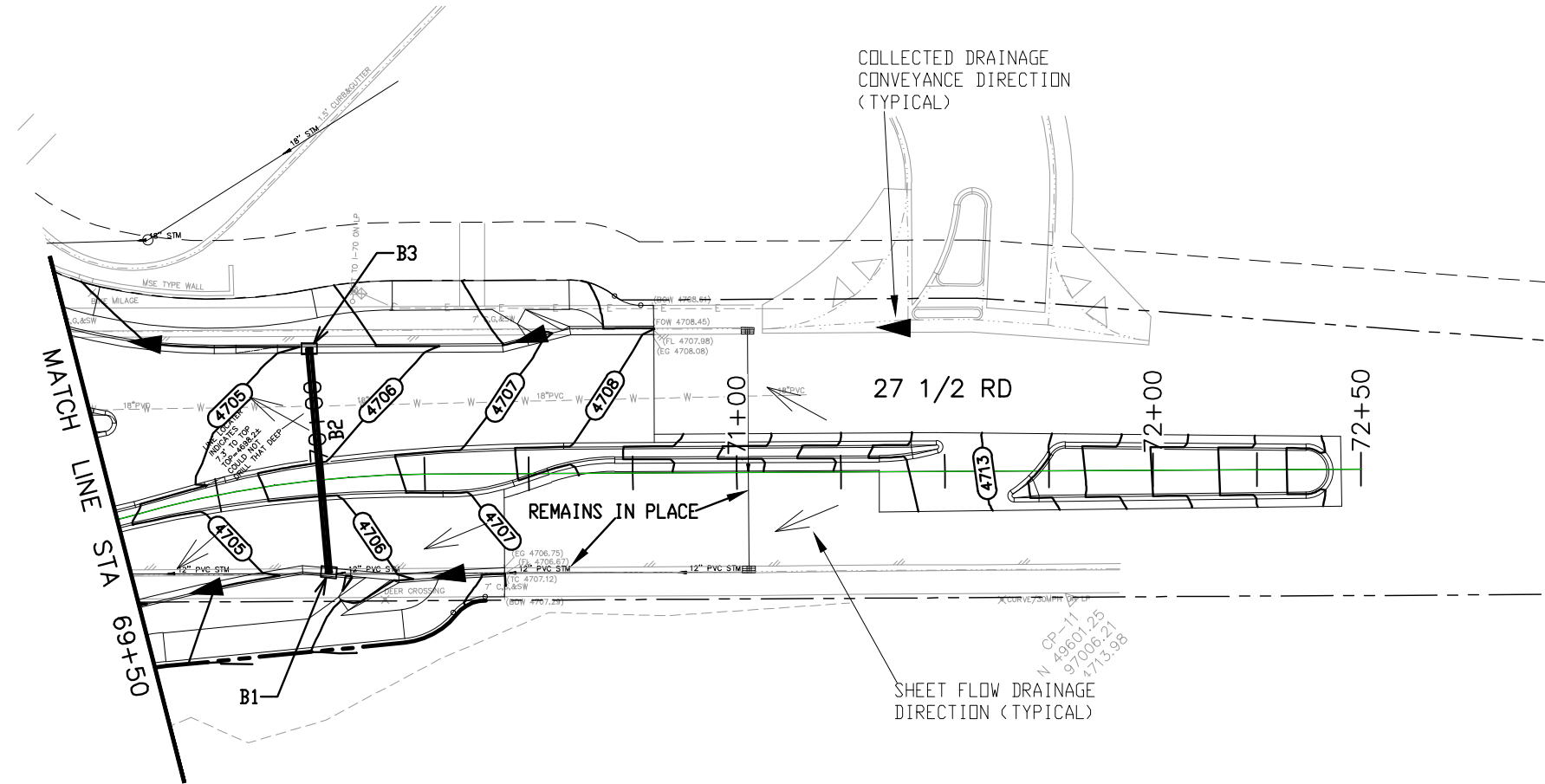


NOTE:  
 SEE STAKING PLANS FOR STAKING  
 DATA AND ELEVATIONS.  
 COORDINATES SHOWN ARE TO CENTER  
 OF STRUCTURE

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File Name: GRADING AND DRAINAGE PLAN.dwg	Date:	Comments	Init.			No Revisions:	GRADING AND DRAINAGE PLAN - 2	
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Unit Information: City of GJ Unit Leader Initials: LF						Void:	Detailer: JCS	Subset Sheets: X of X
 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554				Region 3	KC	Sht Subset: GRADING AND DRAINAGE PLAN		



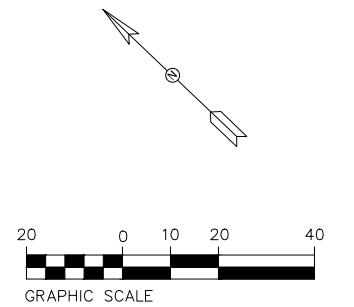
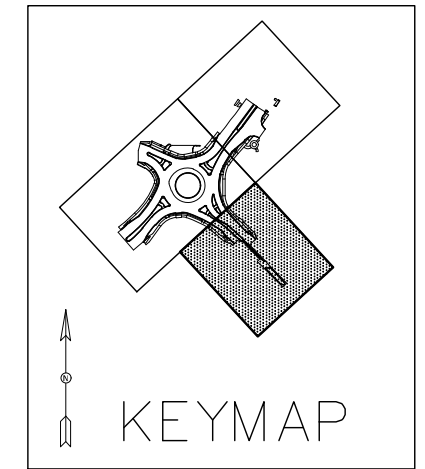
N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\DESIGN\GRADING AND DRAINAGE PLAN.dwg, 6/18/2024 7:21:15 AM



REQUIRED INLET SPECIAL(10 FT)(B1)  
AND CONNECTION TO EXISTING PIPES  
STA 70+00, 22' RT.  
N 49734.09  
E 96886.92

REQUIRED 54' X 12' PVC (B2)  
STA 70+00, 22' RT. TO  
STA 70+00, 32' LT.

REQUIRED INLET SPECIAL(5 FT)(B3)  
STA 70+00, 32' LT.  
N 49774.80  
E 96922.29



NOTE:  
SEE STAKING PLANS FOR STAKING  
DATA AND ELEVATIONS.

COORDINATES SHOWN ARE TO CENTER  
OF STRUCTURE

Print Date: 6/18/2024 7:21:16 AM	
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Unit Information: City of GJ Unit Leader Initials: LF	
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554	

Sheet Revisions		
Date:	Comments	Init.

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

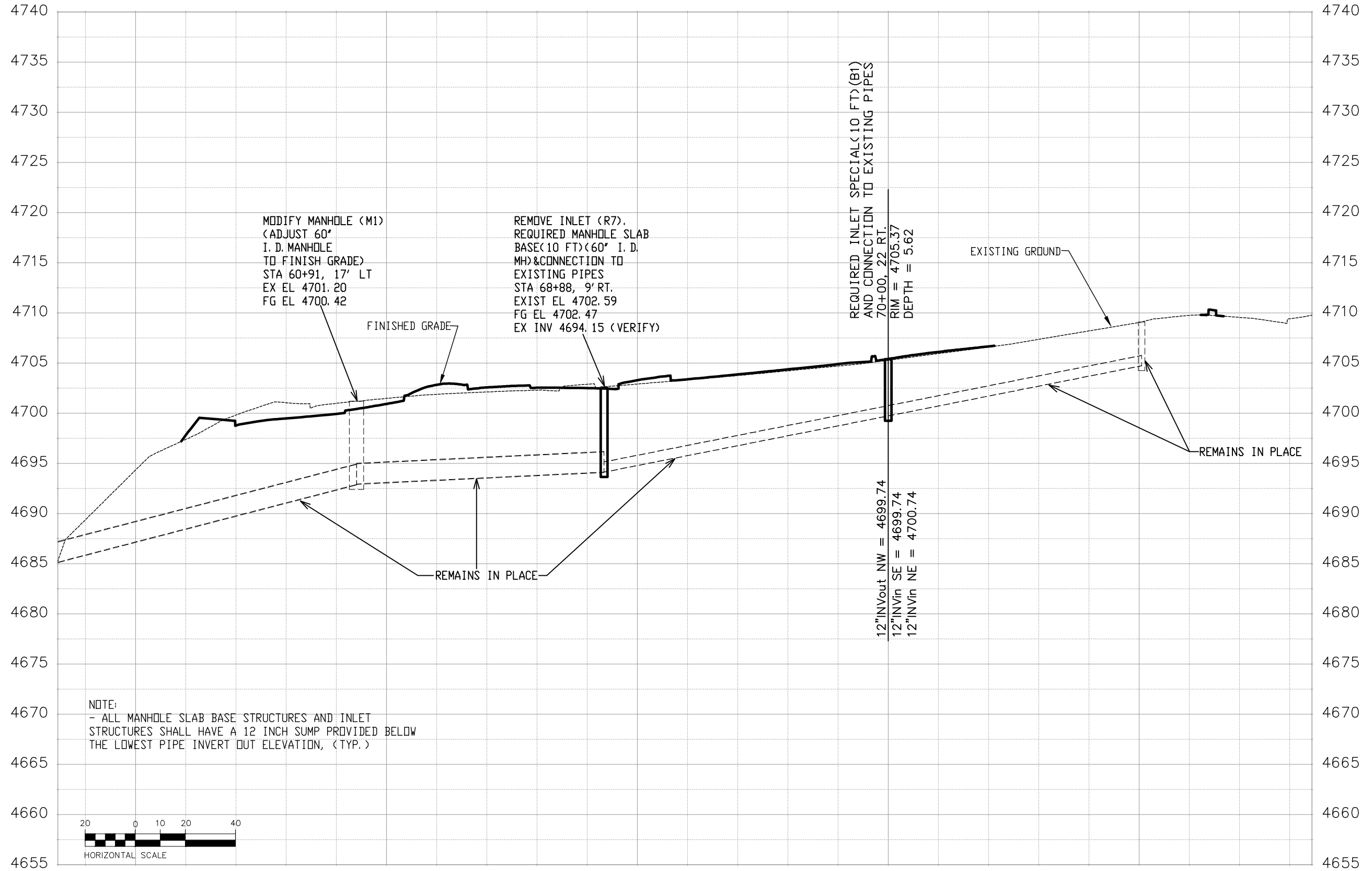
Region 3 KC

As Constructed
No Revisions:
Revised:
Void:

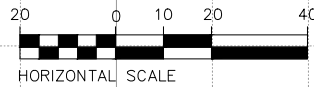
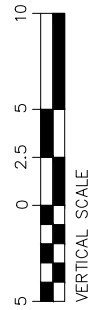
HORIZON DR AND G RD ROUNDABOUT GRADING AND DRAINAGE PLAN - 3 STA 69+50 TO 72+00	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sht Subset: GRADING AND DRAINAGE PLAN	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 51

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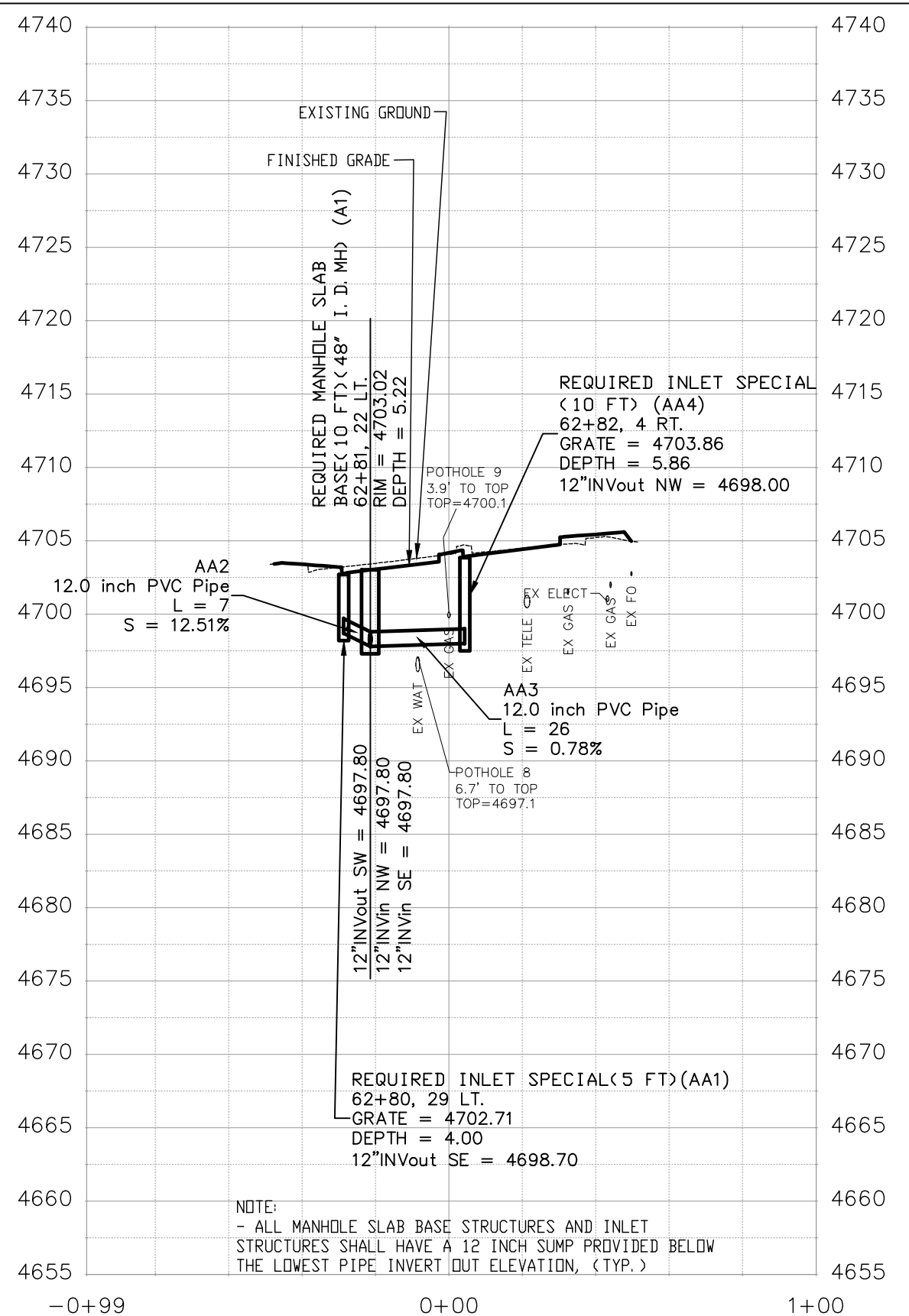
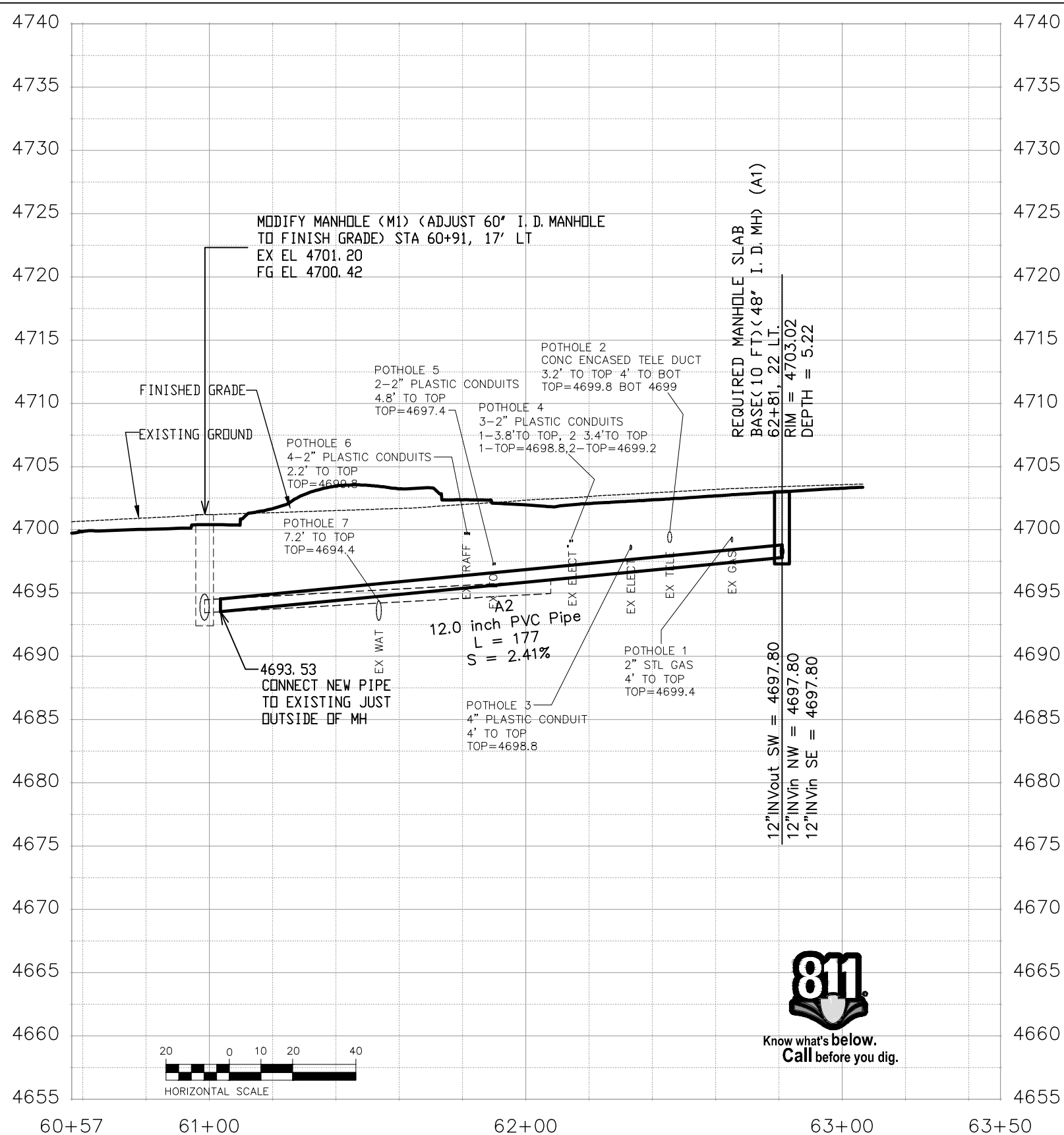


NOTE:  
- ALL MANHOLE SLAB BASE STRUCTURES AND INLET STRUCTURES SHALL HAVE A 12 INCH SUMP PROVIDED BELOW THE LOWEST PIPE INVERT OUT ELEVATION, (TYP.)



Print Date: 6/18/2024 7:21:17 AM		Sheet Revisions		Colorado Department of Transportation		As Constructed		HORIZON DR AND G RD ROUNDABOUT STRUCTURE CROSS SECTIONS - 1		Project No./Code	
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Horiz. Scale: AS SHOWN Vert. Scale: AS SHOWN					Region 3 KC		Revised:		Detailer: JCS		23652
Unit Information: City of GJ Unit Leader Initials: LF							Void:		Sht Subset: STRUCTURE CROSS SECTIONS		Sheet Number 52
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554									Subset Sheets: X of X		

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Print Date: 6/18/2024 7:21:18 AM  
File Name: STRUCTURE CROSS SECTIONS.dwg  
Horiz. Scale: AS SHOWN Vert. Scale: AS SHOWN  
Unit Information: City of GJ Unit Leader Initials: LF  
**CITY OF Grand Junction**  
333 WEST AVE, BLDG C  
Grand Junction, CO, 81501  
Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
**811**  
Know what's below.  
Call before you dig.  
**CDOT**  
606 South 9th Street  
Grand Junction, CO, 81501  
Phone: 970-683-6351 FAX: 970-683-6369  
Region 3 KC

As Constructed	HORIZON DR AND G RD ROUNDABOUT STRUCTURE CROSS SECTIONS - 2	
No Revisions:	Designer: JCS	Structure Numbers
Revised:	Detailer: JCS	Sht Subset: STRUCTURE CROSS SECTIONS
Void:	Subset Sheets: X of X	

Project No./Code  
SHE M555-034  
23652  
Sheet Number 53



TABULATION OF SANITARY SEWER ITEMS


STATION	(604-30005) MANHOLE SLAB BASE (5 FOOT)		(604-83108) 8 INCH PLASTIC PIPE SEWER (POLYVINYL CHLORIDE)		COMMENTS
	EA		LF		
	Plan	As Const	Plan	As Const	
<b>HORIZON DRIVE</b>					
69+09, 51' RT 69+12, 17' RT TO 69+09, 51' RT	1		34		SSMH (A1) PIPE (A2)
<b>SHEET 1 SUBTOTAL</b>	<b>1</b>		<b>34</b>		

Print Date: 6/18/2024 7:29:11 AM  
File Name: TABULATION OF SANITARY SEWER ITEMS.dwg  
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Unit Information: City of GJ Unit Leader Initials: LF

**CITY OF Grand Junction COLORADO** 333 WEST AVE, BLDG C  
Grand Junction, CO, 81501  
Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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

Region 3 KC

**As Constructed**  
No Revisions:  
Revised:  
Void:

HORIZON DR AND G RD ROUNDABOUT  
TABULATION OF SANITARY  
SEWER ITEMS - 1

Designer: JCS  
Detailer: JCS

Structure Numbers  
Subset Sheets: X of X

Project No./Code  
SHE M555-034

23652

Sheet Number 55






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### GENERAL SEWER NOTES

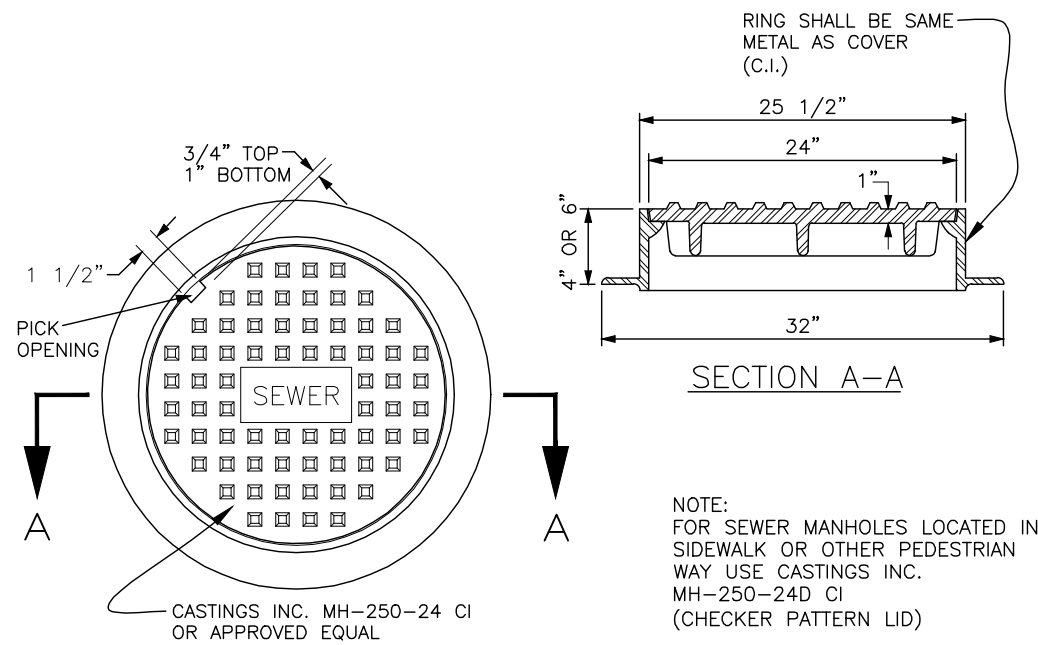
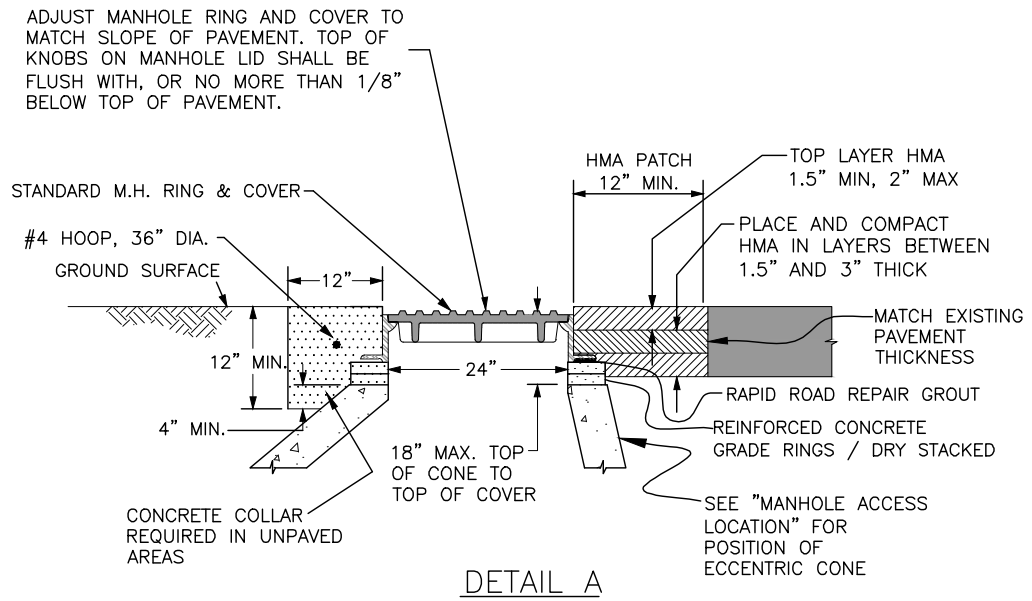
- A. CONTRACTOR SHALL HAVE ONE SIGNED COPY OF PLANS AND A COPY OF THE CITY OF GRAND JUNCTION'S STANDARD SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.
- B. ALL SEWER MAINS SHALL BE PVC SDR 35 (ASTM 3034) UNLESS OTHERWISE NOTED.
- C. ALL SEWER MAINS SHALL BE LAID TO GRADE UTILIZING A PIPE LASER.
- D. ALL SERVICE LINE CONNECTIONS TO NEW MAINS SHALL BE ACCOMPLISHED WITH FULL BODY WYES OR TEES. TAPPING SADDLES WILL NOT BE ALLOWED.
- E. SERVICE LINE CONNECTIONS TO EXISTING NON-PVC MAINS SHALL BE ACCOMPLISHED USING "INSERTA TEES" MANUFACTURED BY INSERTA FITTINGS COMPANY OF HILLSBORO, OREGON. FOR EXISTING PVC MAINS, TAPPING SADDLES SHALL BE USED.
- F. 4 INCH SERVICES SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES. ALL 6 INCH SERVICES SHALL BE CONNECTED TO THE MAIN AT A MANHOLE.
- G. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- H. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SEWER LINE TESTING TO BE COMPLETED IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE. PRESSURE TESTING WILL BE PERFORMED AFTER INSTALLATION OF DRY UTILITIES, AFTER ALL COMPACTION OF STREET SUBGRADE AND PRIOR TO STREET PAVING. FINAL LAMPING WILL ALSO BE ACCOMPLISHED AFTER PAVING IS COMPLETED. THESE TESTS SHALL BE THE MINIMUM BASIS OF ACCEPTANCE OF THE SEWER LINE EXTENSION.
- I. THE CONTRACTOR SHALL OBTAIN CITY OF GRAND JUNCTION STREET CUT PERMIT FOR ALL WORK WITHIN EXISTING CITY RIGHT-OF-WAY PRIOR TO CONSTRUCTION.
- J. A CLAY CUT-OFF WALL SHALL BE PLACED 10 FEET UPSTREAM FROM ALL NEW MANHOLES UNLESS OTHERWISE NOTED. THE CUT-OFF WALL SHALL EXTEND FROM 6 INCHES BELOW TO 6 INCHES ABOVE GRANULAR BACKFILL MATERIAL AND SHALL BE 2 FEET WIDE. IF NATIVE MATERIAL IS NOT SUITABLE, THE CONTRACTOR SHALL IMPORT MATERIAL APPROVED BY THE ENGINEER.
- K. SEWER SERVICE STUB OUTS SHALL BE CAPPED AND PLUGGED. STUB OUT SHALL BE MARKED WITH A 4X4 INCH POST PAINTED GREEN BURIED WITH 3 FEET ABOVE GRADE. AS-BUILT SURVEYING FOR VERTICAL GRADE OF STUB OUT REQUIRED PRIOR TO BACKFILL.
- L. RED LINE AS-BUILTS SHALL BE SUBMITTED TO THE CITY UTILITY ENGINEER AT LEAST 72 HOURS PRIOR TO PAVING FOR REVIEW.

### MANHOLE NOTES

- 1. CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B" (SECTION 601.02)
- 2. ALL CEMENT USED IN MORTAR, CONCRETE BASES, GRADE RINGS, RISER SECTIONS AND CONES FOR SANITARY SEWER MANHOLES, SHALL BE TYPE V OR MODIFIED TYPE II PORTLAND CEMENT WITH LESS THAN 5% TRICALCIUM ALUMINATE.
- 3. MANHOLE RISER SECTIONS, CONES AND GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE CONFORMING TO ASTM C-478 OR AASHTO M-199.
- 4. BACKFILL AROUND MAHHOLES AND OTHER PIPELINE STRUCTURES SHALL BE PLACED IN 8" MAX. LIFTS AND COMPACTED TO 95% AASHTO T-99 WITH HAND OPERATED MECHANICAL EQUIPMENT.
- 5. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND CITY SPECIFICATION.
- 6. THE MANHOLE CONE AND BARREL SECTIONS SHALL BE POSITIONED SUCH THAT THE MANHOLE RING AND STEPS ARE AT A 45° ANGLE FROM THE INLET PIPE (SEE DETAIL).
- 7. MANHOLE RING AND COVER SHALL BE SET TO FINISH GRADE USING RAPID ROAD REPAIR GROUT TO ADJUST RIM ELEVATION. GROUT SHALL NOT EXCEED 2" THICKNESS. GROUT SHALL BE PLACED BETWEEN TOP OF CONCRETE GRADE RING AND RING AND COVER. STEEL GRADE ADJUSTMENT RINGS MAY BE USED FOR ADJUSTMENT OF MANHOLE COVERS ONLY WHEN STREETS ARE OVERLAID.
- 8. INVERTED MANHOLE RINGS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.

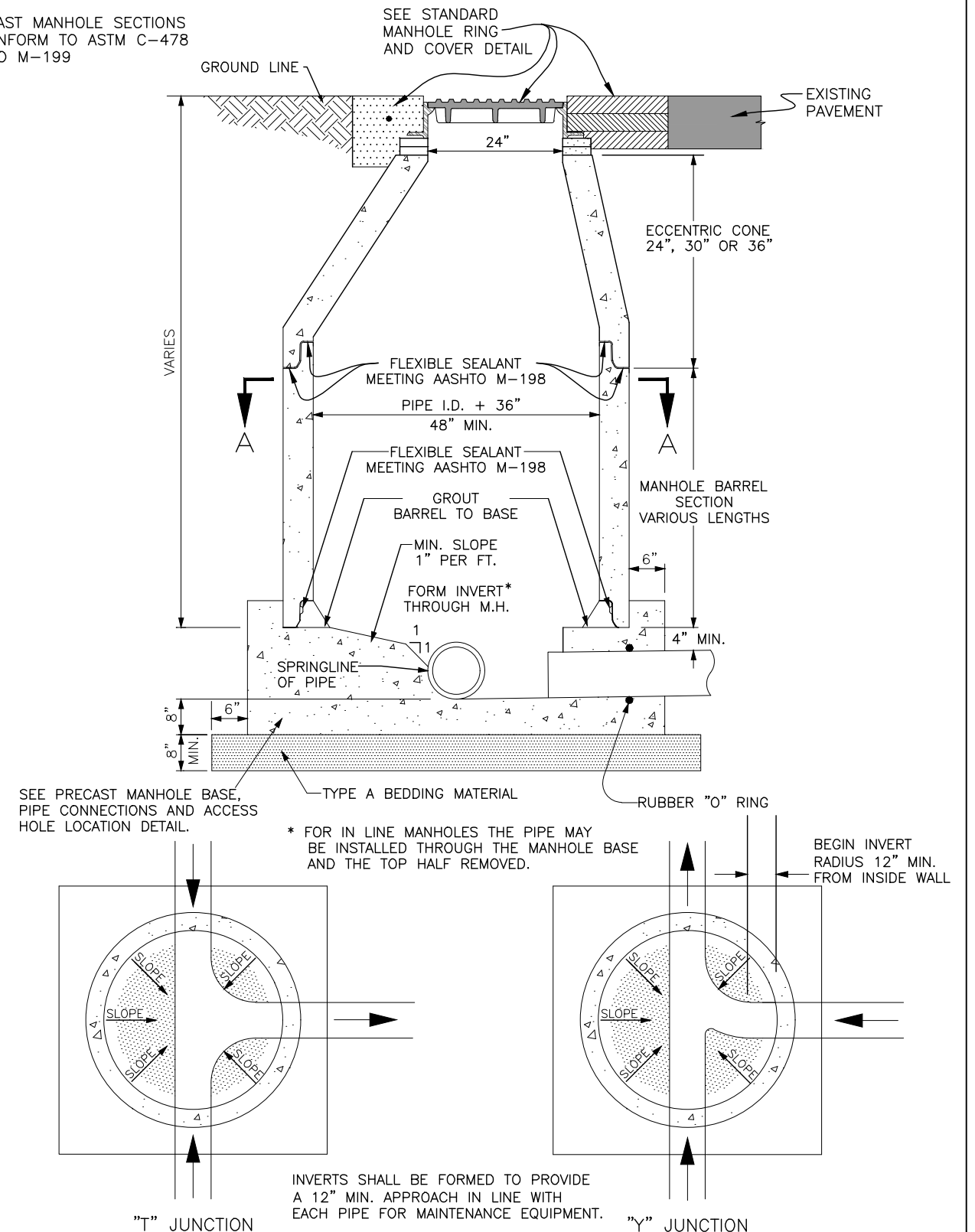
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File Name: SANITARY SEWER DETAILS.dwg		Date:	Comments	Init.		No Revisions:			SHE M555-034		
Horiz. Scale: AS SHOWN      Vert. Scale: NA						Revised:	Designer: JCS	Structure Numbers	23652		
Unit Information: City of GJ      Unit Leader Initials: LF						Void:	Detailer: JCS		Sheet Number      56		
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STANDARD MANHOLE RING AND COVER

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



MANHOLE SLAB BASE

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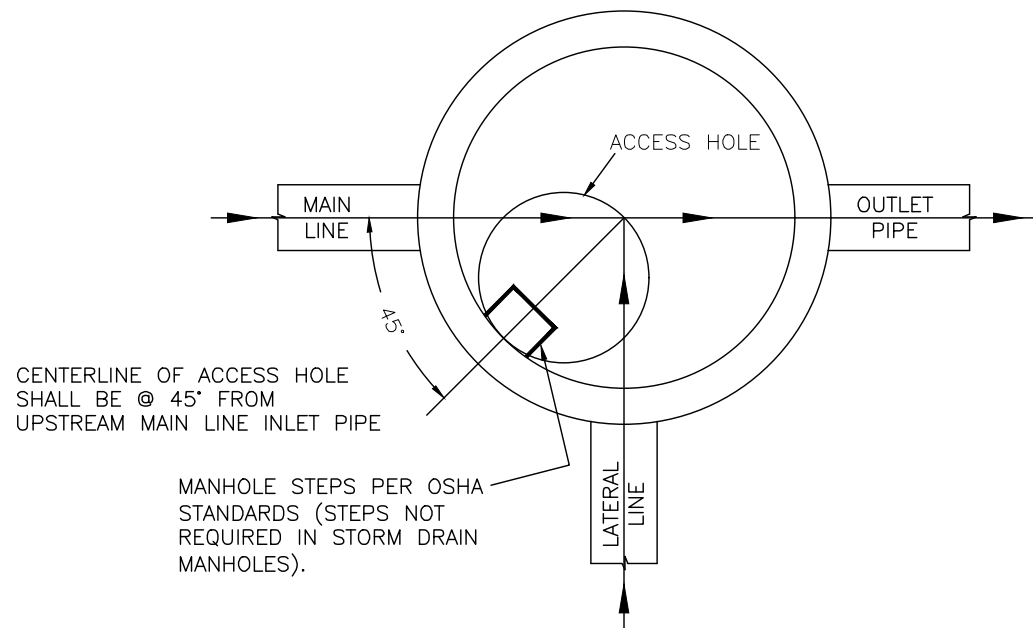
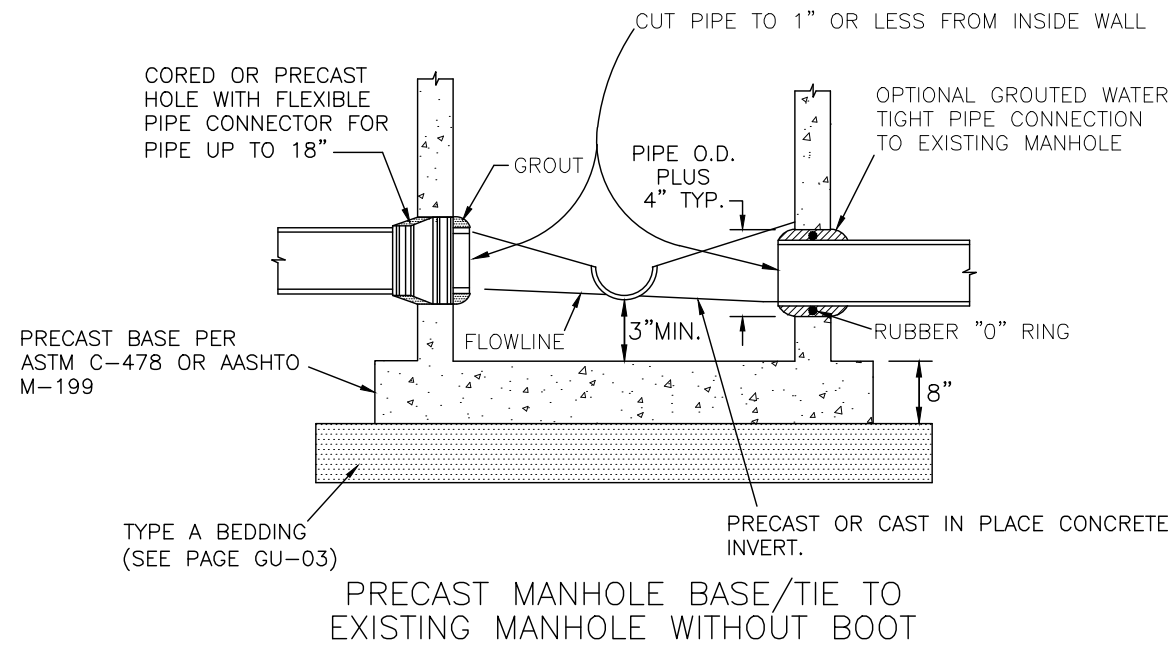
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Sheet Number 57

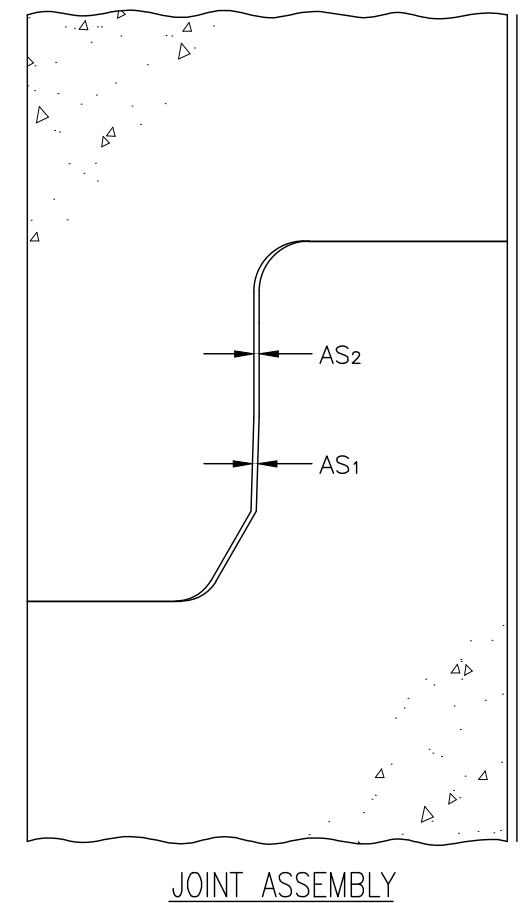
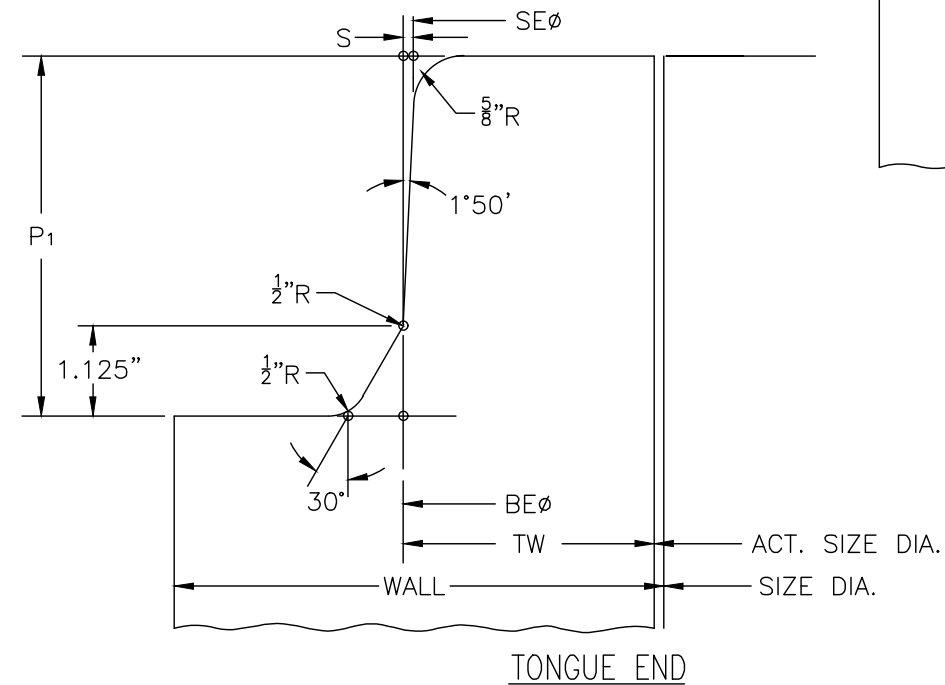
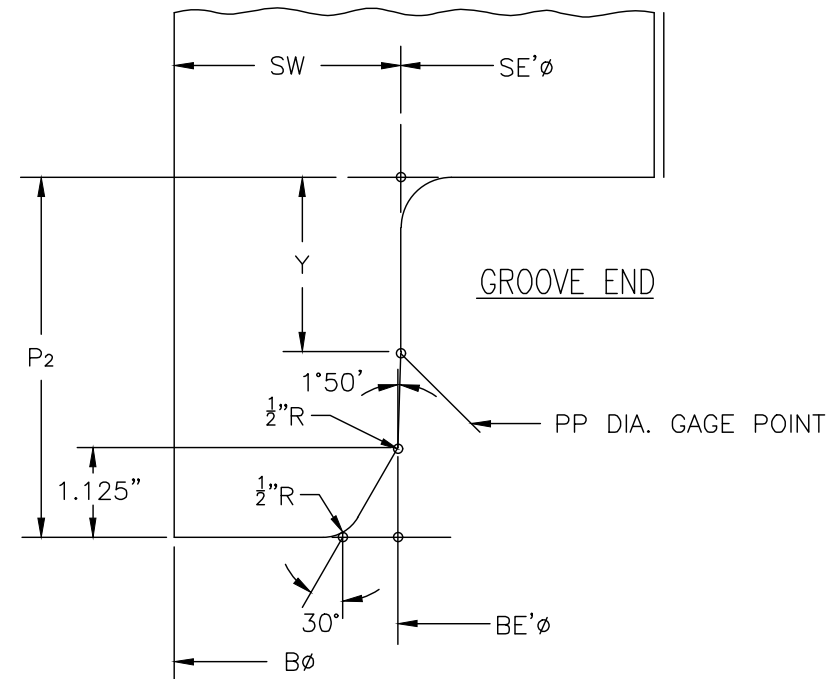
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GROUT FOR PIPE CONNECTIONS SHALL BE ALL-CRETE (5 OR 20 MINUTE SET) MANUFACTURED BY FOSROC INC. OR AN APPROVED SUBSTITUTE.



PRECAST MANHOLE BASE, PIPE CONNECTIONS AND ACCESS HOLE LOCATION

WALL SIZE	ACT. SIZE	TONGUE END							GROOVE END							JOINT	
		SE	BE	TW	P <sub>1</sub>	CC GAGE PT.	S	SE'	BE'	SW	PP GAGE PT.	B	P <sub>2</sub>	Y	G	AS <sub>1</sub>	AS
48-5	48 1/8	52.054	52.466	2.171	4 1/2	52.318	.062	52.312	52.600	2.844	52.452	58 4 1/2	2.188	1.594	.067	.129	
60-6	60 1/8	64.958	65.386	2.631	4 3/4	65.222	.062	65.216	65.520	3.392	65.356	72 4 3/4	2.188	1.594	.067	.129	



MANHOLE BARREL JOINT DETAILS (48" & 60")

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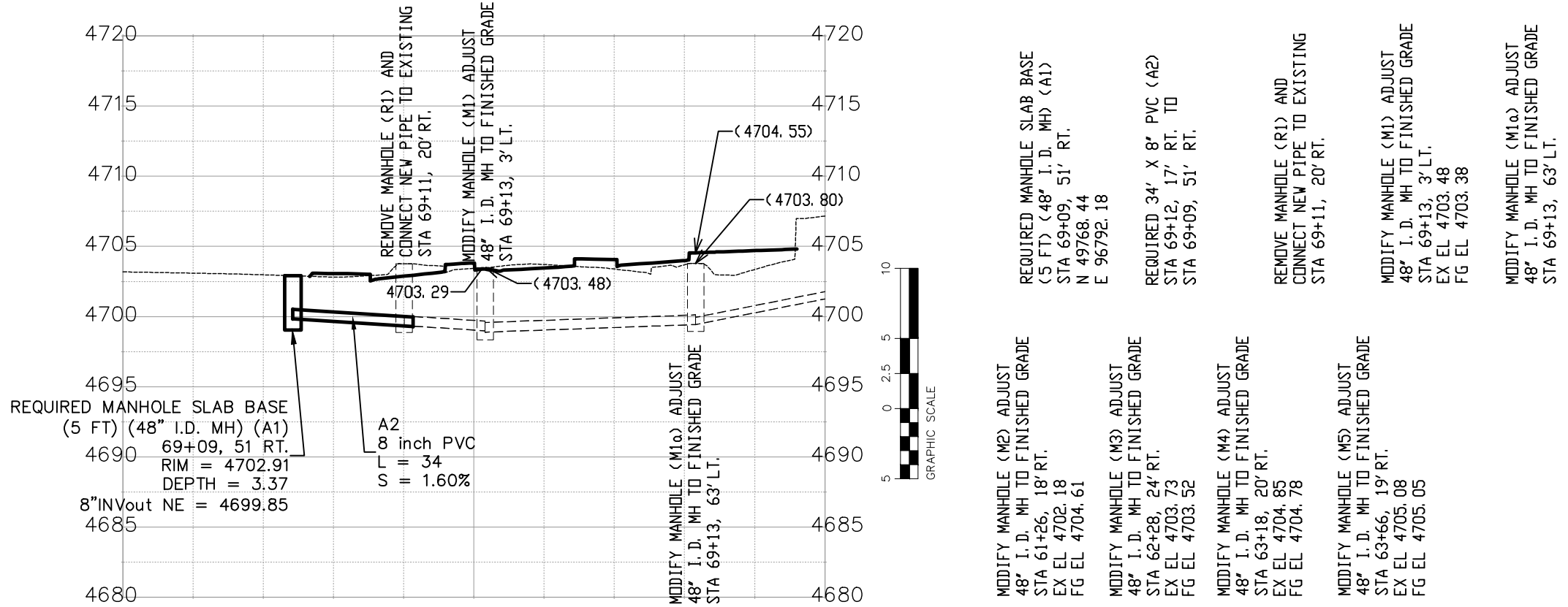
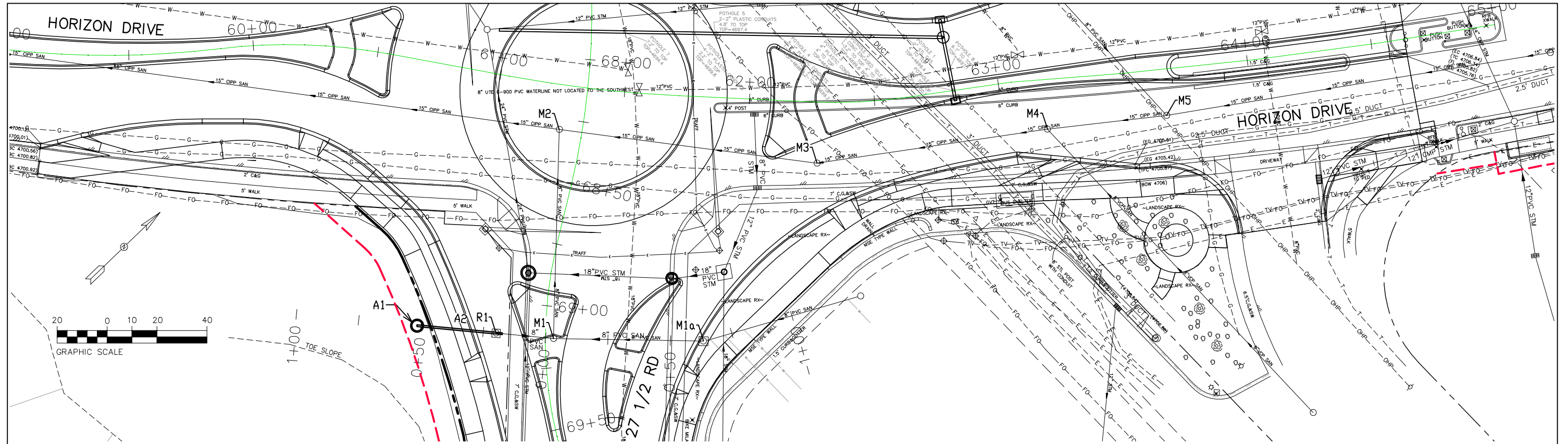
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HORIZON DR AND G RD ROUNDABOUT  
 SANITARY SEWER  
 DETAILS - 3  
 Designer: JCS  
 Detailer: JCS  
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 Sheet Number 59



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**HORIZON DR AND G RD ROUNDABOUT – SWMP UPDATED 03/01/2023**

**1. SITE DESCRIPTION**

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

**A. PROJECT SITE LOCATION:**

The intersection of Horizon Drive and G Road (north) and 27 ½ Road (south)  
Location or address of construction office: Southwest Corner of Horizon and 27 12 Road

**B. PROJECT SITE DESCRIPTION:**

Construct a modern style roundabout at the four-way intersection of Horizon Drive and G Road. This is an intersection upgrade funded project which includes unclassified excavation, aggregate base course, hot mix asphalt, concrete pavement, drainage pipeline installation, curb, gutter and sidewalk.

**C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:**

The project will begin with installation of vehicle tracking pads, concrete wash out structures, and perimeter sediment controls. The project will proceed with clearing and grubbing, asphalt-concrete & all other needed removals, site grading, utility relocation, installation of drainage pipes and appurtenances, construction of the Roundabout and connection to existing at all 4 legs, and Final landscaping. Disturbed areas not otherwise covered with paving, revegetation, or landscaping will receive native seeding by drilling methods.

**D. ACRES OF DISTURBANCE:**

1. Total area of construction site (LOC (PERMITTED AREA)): 2.70 acres
2. Total area of proposed disturbance (LDA): 2.39 acres
3. Total area of seeding: 0.26 acres
4. Total area of pre-project impervious surface: 84118 sq ft.
5. Total area of final impervious surface: 85765 sq. ft.

**E. EXISTING SOIL DATA:** Killpack Silty Clay, 2 to 5 percent slopes. Parent Material: Residuum weathered from clayey shale. Runoff class is: Medium. Depth to water table: More than 80 inches. Hydrologic Soil Group: C.

**F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:** Existing vegetation consists of maintained landscaping by both the City of Grand Junction and the local businesses adjacent to the project. Existing vegetation consists of sod, trees, shrubs, perennials, inorganic mulch, native grasses, and native bushes. The native grasses and bushes are primarily located at the undeveloped properties at the South and West corners of the intersection. The property at the East corner of the intersection is currently being developed and therefor has been cleared and grubbed and free of all vegetation.

A survey including general description of existing vegetation shall be conducted by the Erosion Control Supervisor prior to any ground disturbance on project. The Erosion Control Supervisor shall photo-document existing vegetation where all work will be occurring. The Erosion Control Supervisor shall also perform the vegetation survey transect(s) including photo documentation as outlined in Chapter 4.11.2 of CDOT's Erosion Control and Stormwater Quality Guide.

Pre-Construction Date of survey: \_\_\_\_\_ Percent Existing Vegetative Cover: \_\_\_\_\_  
Description of existing vegetation: \_\_\_\_\_  
Method for determining percent vegetative cover: \_\_\_\_\_

Post-Construction Date of survey: \_\_\_\_\_ Percent Vegetative Cover: \_\_\_\_\_  
Description of vegetation: \_\_\_\_\_

**G. POTENTIAL POLLUTANTS SOURCES:**

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

**H. DRAINAGE PATTERNS AND RECEIVING WATER(S):**

1. Outfall locations: The owner of the new and existing storm pipes that are underneath and crossing Horizon Drive, G Road, and 27 ½ Road are owned and maintained by the City of Grand Junction. All storm drain piping that's part of this project conveys storm water to a centralized point and discharges the storm water into an existing drainage channel where the storm water is then conveyed and discharged into the upper limits of Ranchman's Ditch. This project is located within MS4 boundaries. This project increases the imperious area by 2%.

2. Names of receiving water(s) on site and the ultimate receiving water: Ranchman's Ditch and the Colorado River as the ultimate receiving waters.

3. Distance ultimate receiving water is from project: 3.5 Miles

4. There are no stream crossings located within the Construction Site Boundary

**I. ALLOWABLE NON-STORMWATER DISCHARGES:**

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure) #	See Site Map	A Concrete Washout Structure shall be provided by the contractor
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

**J. DIVERSION CRITERIA:**

1. Is a diversion planned for the Site? Yes \_\_\_\_\_ No
2. If yes, complete information below:
  - a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)?
  - b. What are the monthly averages if available? (provide averages for Jan- Dec if available)
  - c. What is the upstream contributing drainage area and imperviousness?
  - d. A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP.
  - e. If the conditions in the SCP cannot be met and an alternative is required, CDOT must approve the alternative and then it must be submitted and approved by CDPHE's Water Quality Control Division prior to implementation.

**K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:**

[If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map. Alternative temporary stabilization schedules must be approved by CDOT prior to implementation]



**2. SITE MAP COMPONENTS:**

Pre-construction

**A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:**

See Storm Water Management Site Plan

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File Name: STORMWATER MANAGEMENT PLAN.dwg	Date:	Comments	Init.		No Revisions:	1		SHE M555-034
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**B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF**

DIRECTION:  
See Storm Water Management Site Plan

**C. ALL AREAS OF GROUND SURFACE DISTURBANCE:**

See Storm Water Management Site Plan

**D. AREAS OF CUT AND FILL:**

See Storm Water Management Site Plan and Cross Sections

**E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:**

See Storm Water Management Site Plan

**F. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:**

See Storm Water Management Site Plan

**3. QUALIFIED STORMWATER MANAGERS:**

**A. SWMP ADMINISTRATOR FOR DESIGN:**

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Lisa Froshaug	970-244-1592 lisaf@gjcity.org	

**B. SWMP ADMINISTRATOR FOR CONSTRUCTION:** (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting 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 208.03, the SWMP shall remain the property of CDOT. 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) (A copy of TECS Certification must be included in the SWMP.)

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

**C. EROSION CONTROL INSPECTOR:** (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

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

**D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT:** This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]

**4. STORMWATER MANAGEMENT CONTROLS FOR 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, 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.

Pollutant Sources include:

- Sediment from ground disturbance
- Vehicle tracking of sediments.
- Liquid and solid construction waste, paints, solvents, adhesives, concrete washout water, asphalt waste, and any other material that could conceivably be dissolved in or carried by stormwater.
- Loading and unloading operations
- Vehicle and equipment maintenance and fueling
- Significant dust or particulate generating processes.
- Non-industrial waste sources such as worker trash and portable toilets

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

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.

**C. VEHICLE TRACKING CONTROL:**

Control measures shall be implemented in accordance with subsection 208.04.

**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
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:** Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

**A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN:** Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

**B. OTHER CDPS PERMITS:** List applicable CDPS permits associated with the permitted site and activities.



**C. STOCKPILE MANAGEMENT:** Shall be done in accordance with subsections 107.25 and 208.07.

**D. CONCRETE WASHOUT:** Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

**E. SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, 208.05

**F. STREET SWEEPING:** Shall be done in accordance with subsection 208.04.

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**6. INSPECTIONS**

- A. Water Quality Inspections shall be in accordance with subsection 208.03(c).
- B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

**7. CONTROL MEASURE MAINTENANCE**

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

**8. RECORD KEEPING**

Records shall be kept in accordance with subsection 208.03(d).

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

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

**A. SEEDING PLAN:**

Seeding will be required for an estimated 0.26 acres of disturbed area within the right-of-way limits, which are not surfaced. The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
GALLETA GRASS	HILARIA JAMESII	20%
HARD FESCUE	FESTUCA OVINA 'DURAR'	20%
INDIAN RICEGRASS	ORIZOPSIS HYMENOIDES 'PALOMA'	12%
NEEDLE & THREAD GRASS	STIPA COMATA	1%
SHEEP FESCUE	FESTUCA OVINA 'COVAR'	8%
WESTERN WHEATGRASS	AGROPYRON SMITHII 'ARRIBA'	30%
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	1%
BLUE GRAMMA	BOUTELOUA GRACILIS	5%
SIDE OATS GRAMMA	BOUTELOUA CURTIPENDULA	3%
<b>SEED AT 5 LB/ACRE PLS</b>		
	<b>Total</b>	<b>100%</b>

**B. SEEDING APPLICATION METHOD:**

Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil.

**C. MULCHING APPLICATION:**

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

**D. SOIL STABILIZATION METHODS:**

Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding.

**E. SPECIAL REQUIREMENTS:**

1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

**F. SOIL AMENDMENT REQUIREMENTS:** Minimum amendment material requirements for all disturbances to receive seeding.

BIOLOGICAL NUTRIENT ORGANIC BASED FERTILIZER (LBS/ACRE)*	HUMATE (LBS/ACRE)	COMPOST (CY/ACRE) (1/2 INCH DEPTH)
600	200	261

\*BIOLOGICAL NUTRIENT SHALL NOT EXCEED 8-8-8 (N-P-K). HUMATE BASED MATERIAL AND COMPOST SHALL BE IN ACCORDANCE WITH SECTION 212

**G. Permanent Stabilization Application Under Structures:**

Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

**H. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:**

Prior to stormwater construction work partial acceptance.



1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas, at no additional cost to the project.

**I. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES:** Is Permanent Water Quality Required. Yes \_\_\_\_\_ No  X \_\_\_\_\_

**10. PRIOR TO PROJECT FINAL ACCEPTANCE**

- A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- C. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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File Name: STORMWATER MANAGEMENT PLAN.dwg	Date:	Comments	Init.		No Revisions:		3		SHE M555-034	
Horiz. Scale: AS SHOWN Vert. Scale: NA					Revised:		Designer: JCS		23652	
Unit Information: City of GJ Unit Leader Initials: LF					Void:		Detailer: JCS		Structure Numbers	
 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554					STORMWATER MANAGEMENT PLAN		Subset Sheets: X of X		Sheet Number 62	

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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 "B" 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 the following:

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 Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.					
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.					
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208				
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	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		X	X	
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	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				
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208				
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208				
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	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 stockpiling, increase control as the stockpile increases size.	M-208				
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208				
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION Riprap, or approved other	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				

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Horiz. Scale: AS SHOWN Vert. Scale: NA				 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369	Revised:	Designer: JCS	Structure Numbers	23652
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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
CONCRETE WASHOUT <i>In-ground or fabricated</i>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208		<b>X</b>	<b>X</b>	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208		<b>X</b>	<b>X</b>	
Engineered SEDIMENT BASIN	Constructed early in the 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					
DEWATERING <i>(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)</i>	Shall be done in such a manner to prevent potential pollutants from entering state waters.					
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 groundwater around the disturbance area to prevent it from mixing with construction runoff.					
OTHER						

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**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	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				
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six 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 six inches or as specified.	M-208				
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.					
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.					
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
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent 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					
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				
TURF REINFORCEMENT MAT (TRM)	Permanent 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	
OTHER						

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Unit Information: City of GJ Unit Leader Initials: LF						Void:	Detailer: JCS	Subset Sheets:	X of X
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**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. It is estimated that 10 hours of blading (140-250 horsepower) may be required for construction of temporary berm as directed by the Engineer. Work shall be paid for as: (203-01500) BLADING.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	203-01500	Blading	Hour	10			
	208-00002	Erosion Log Type 1 (12 inch)	LF	260			
	208-00035	Aggregate Bag	LF	50			
	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each	1			
	208-00054	Storm Drain Inlet Protection (Type II)	Each	11			
	208-00075	Pre-fabricated Vehicle Tracking Pad	Each	4			
	208-00103	Removal and Disposal of Sediment (Labor)	Hour	20			
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour	20			
	208-00106	Sweeping (Sediment Removal)	Hour	60			
	208-00107	Removal of Trash	Hour	20			
	208-00207	Erosion Control Management (ECM)	Day	60			
	208-00300	Temporary Berm	LF	400			
	212-00706	Seeding (Native) Drill	Acre	0.26			
	213-00004	Mulching (Weed Free Straw)	Acre	0.26			
	213-00061	Mulch Tackifier	LB	52			

\*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. **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.  
 \*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.  
 \*\*\* F/A refers to CDOT's Force Account Pay Items.

**13. BIOLOGICAL IMPACTS and DEWATERING**

- A. ENVIRONMENTAL IMPACTS:
  - 1. Wetland Impacts: **NO**
  - 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 guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):  
<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>  
 1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.  
 2. If groundwater 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.

**14. NOTES**

- 1. Due to high failure rates, hydroseeding will not be allowed for the application of native seeding.







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**LEGEND**

-  AGGREGATE BAG CURB CHECK
-  STORM DRAIN INLET PROTECTION (TYPE AS NOTED)
-  PRE-FABRICATED VEHICLE TRACKING PAD
-  TEMPORARY BERM
-  **LDA** LIMITS OF DISTURBED AREA
-  **E-E** EROSION LOG

STORM DRAIN INLET PROTECTION (TYPE II) (OPTION A) AT EX INLETS

100 YR FLOOD PLANE

DRAINAGE EASEMENT

EROSION LOG TOE OF SLOPE PROTECTION

LIMITS OF DISTURBED AREA

NATIVE SEEDING INDICATED BY 'GRASS' HATCH

COLLECTED DRAINAGE CONVEYANCE DIRECTION (TYPICAL)

SHEET FLOW DRAINAGE DIRECTION (TYPICAL)

HORIZON DR.

TEMPORARY CONSTRUCTION EASEMENT

NATIVE SEEDING INDICATED BY 'GRASS' HATCH

LIMITS OF DISTURBED AREA

STORM DRAIN INLET PROTECTION (TYPE II) (OPTION A) AT EX INLET 700' ± WEST

STORM DRAIN INLET PROTECTION (TYPE II) (OPTION A) AT EX INLETS

100 YR FLOOD PLANE

DRAINAGE EASEMENT

EROSION LOG TOE OF SLOPE PROTECTION

LIMITS OF DISTURBED AREA

NATIVE SEEDING INDICATED BY 'GRASS' HATCH

COLLECTED DRAINAGE CONVEYANCE DIRECTION (TYPICAL)

SHEET FLOW DRAINAGE DIRECTION (TYPICAL)

HORIZON DR.

TEMPORARY CONSTRUCTION EASEMENT

NATIVE SEEDING INDICATED BY 'GRASS' HATCH

LIMITS OF DISTURBED AREA

STORM DRAIN INLET PROTECTION (TYPE II) (OPTION A) AT EX INLET 700' ± WEST

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HORIZON DR AND G RD ROUNDABOUT  
STORMWATER MANAGEMENT SITE  
PLAN - 1 STA 58+00 TO 63+00

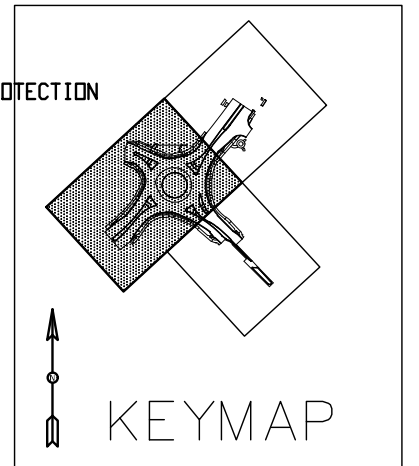
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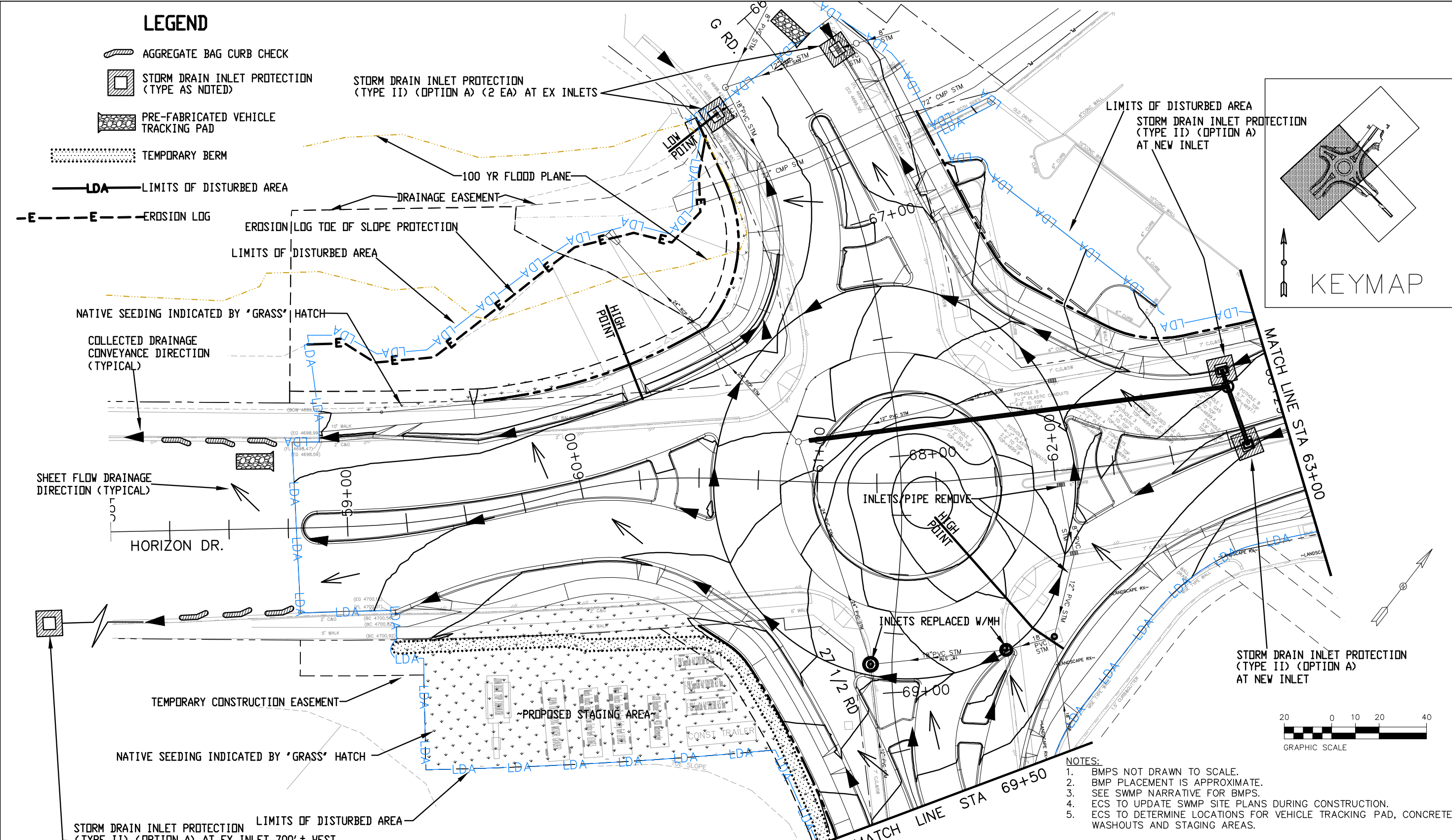
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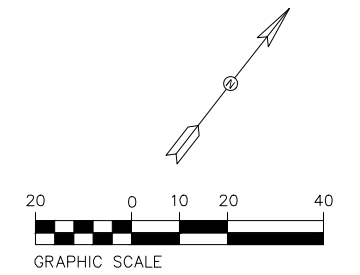
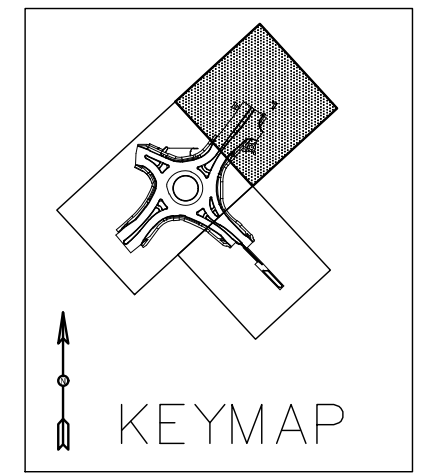
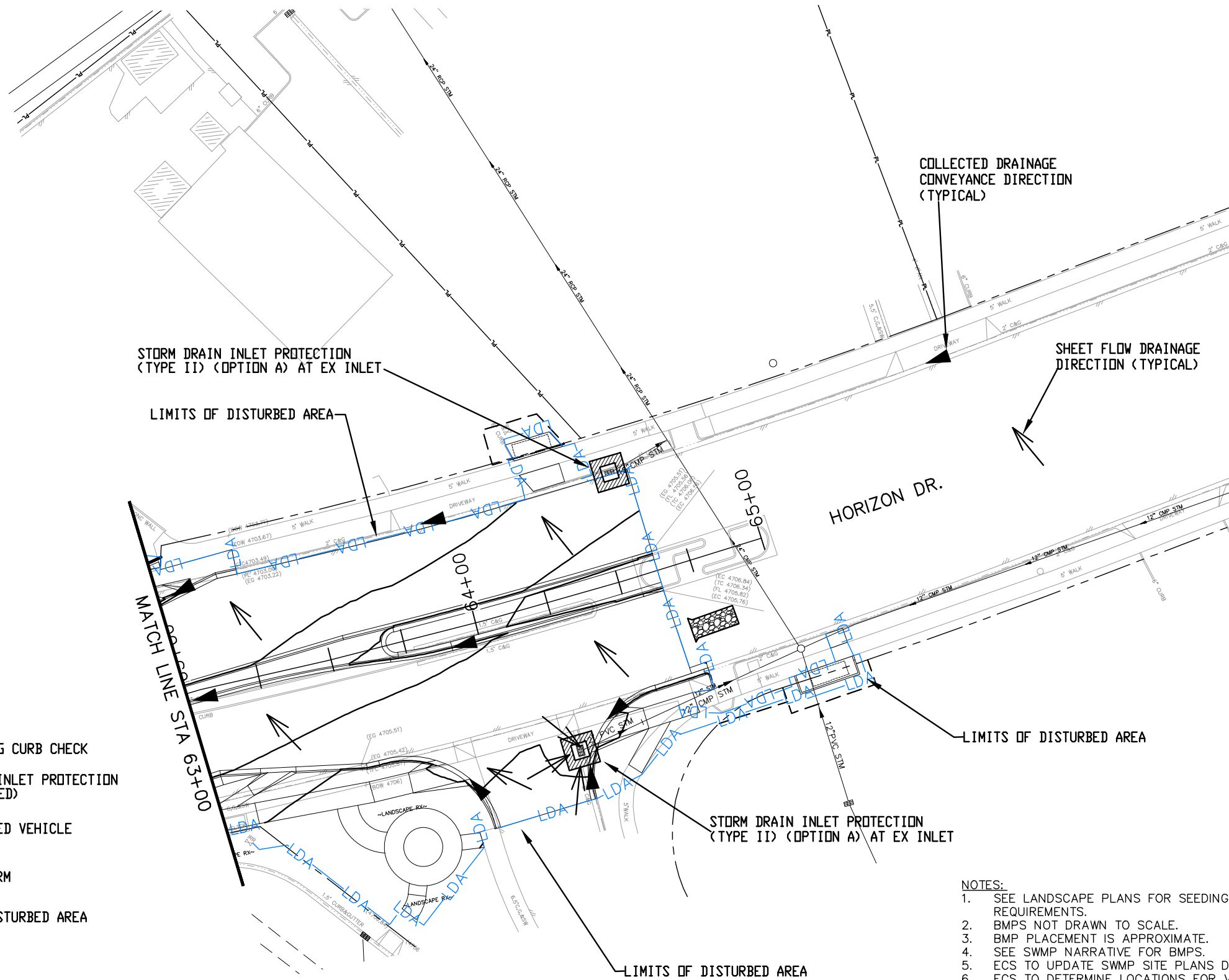
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
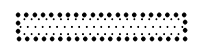

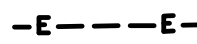
- NOTES:**
1. BMPS NOT DRAWN TO SCALE.
  2. BMP PLACEMENT IS APPROXIMATE.
  3. SEE SWMP NARRATIVE FOR BMPS.
  4. ECS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
  5. ECS TO DETERMINE LOCATIONS FOR VEHICLE TRACKING PAD, CONCRETE WASHOUTS AND STAGING AREAS.



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**LEGEND**

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-  **LDA** LIMITS OF DISTURBED AREA
-  **E** EROSION LOG







**NOTES:**

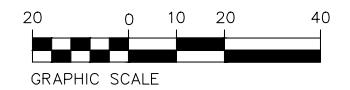
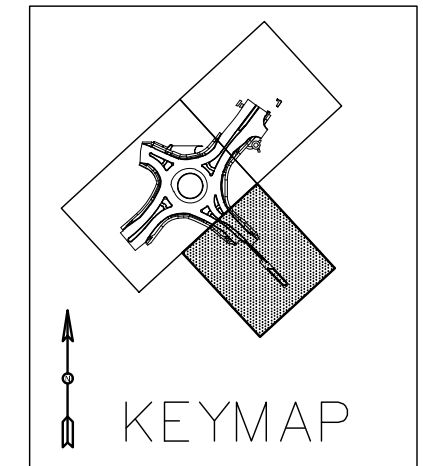
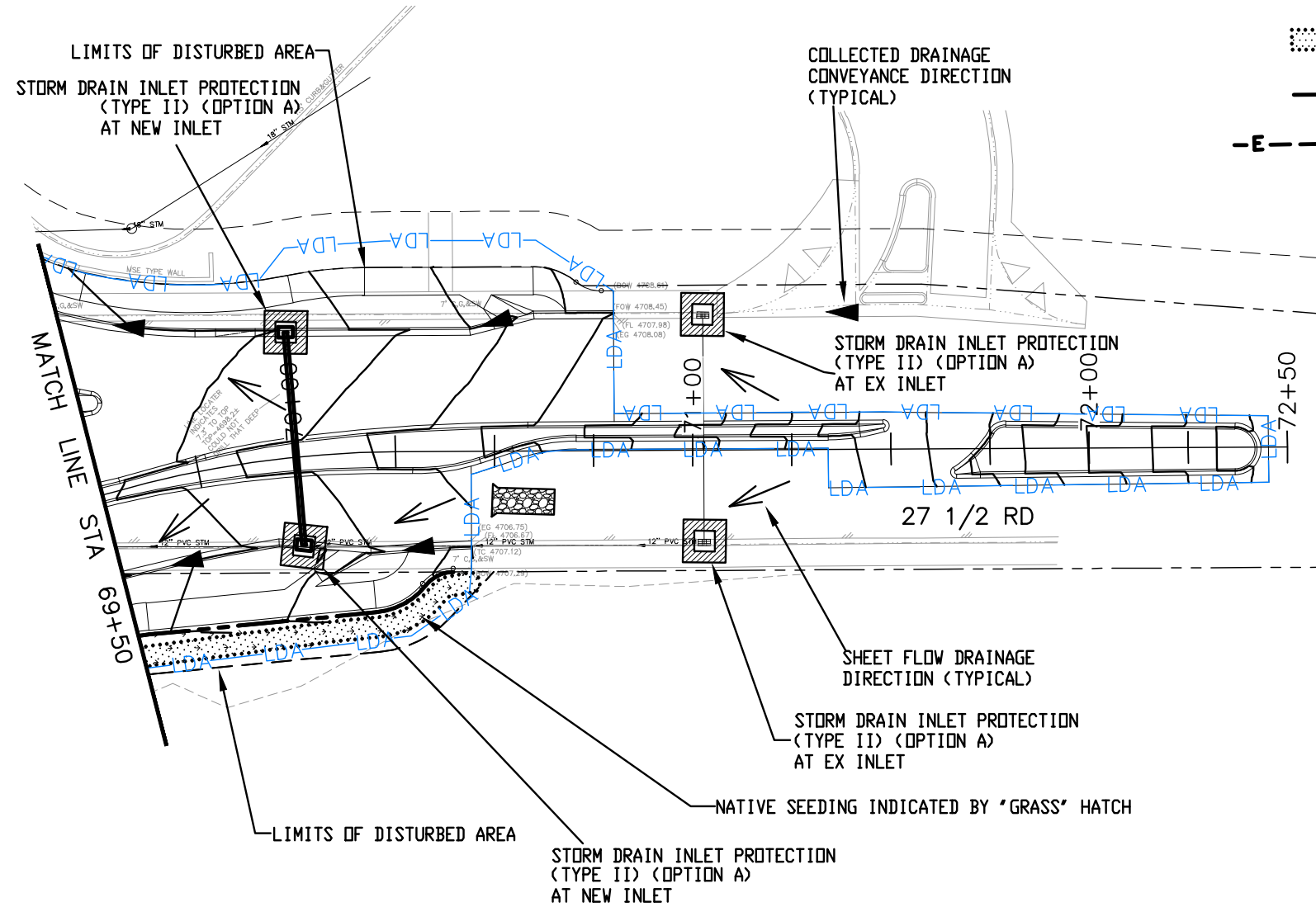
1. SEE LANDSCAPE PLANS FOR SEEDING, MULCHING, AND SOD REVEGETATION REQUIREMENTS.
2. BMPs NOT DRAWN TO SCALE.
3. BMP PLACEMENT IS APPROXIMATE.
4. SEE SWMP NARRATIVE FOR BMPs.
5. ECS TO UPDATE SWMP SITE PLANS DURING CONSTRUCTION.
6. ECS TO DETERMINE LOCATIONS FOR VEHICLE TRACKING PAD, CONCRETE WASHOUTS AND STAGING AREAS.

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		333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554					STORMWATER MANAGEMENT SITE PLAN		Detailer: JCS		Subset Sheets: X of X	
											Sheet Number 68	

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**LEGEND**

-  AGGREGATE BAG CURB CHECK
-  STORM DRAIN INLET PROTECTION (TYPE AS NOTED)
-  PRE-FABRICATED VEHICLE TRACKING PAD
-  TEMPORARY BERM
-  **LDA** LIMITS OF DISTURBED AREA
-  **-E--E--** EROSION LOG



**NOTES:**

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

Print Date: 6/18/2024 7:31:48 AM	
File Name: STORMWATER MANAGEMENT SITE PLAN.dwg	
Horiz. Scale: AS SHOWN      Vert. Scale: NA	
Unit Information: City of GJ    Unit Leader Initials: LF	
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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

Region 3      KC

As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT STORMWATER MANAGEMENT SITE PLAN - 3 STA 69+50 TO 72+00	
Designer: JCS	Structure Numbers
Detailer: JCS	
STORMWATER MANAGEMENT SITE PLAN	Subset Sheets: X of X


Project No./Code
SHE M555-034
23652
Sheet Number 69




TABULATION OF FINAL SIGNING

SIGN NO.	ALIGNMENT	STATION	SIDE	NORTHING	EASTING	DIMENSIONS	SIGN CODE	LEGEND	(210-00810)	(612-00041)	(614-00011)	(614-00012)	(614-01503)	(614-01573)	(614-80003)	NOTES
									RESET GROUND SIGN	DELINEATOR (FLEXIBLE) (TYPE 1)	SIGN PANEL (CLASS I)	SIGN PANEL (CLASS II)	STEEL SIGN SUPPORT (2" ROUND) (POST & SOCKET)	STEEL SIGN SUPPORT (2 1/2" ROUND NP-40) (POST & SLIPBASE)	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB)	
									EACH	EACH	SF	SF	EACH	EACH	EACH	
Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const	Plan	As Const					
1R	HORIZON	60+31	RT	49788.39	96716.48	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25					
1R	HORIZON	60+31	RT	49788.39	96716.48	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
2R	HORIZON	60+20	LT	49840.86	96652.01	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
2R	HORIZON	60+20	LT	49840.86	96652.01	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
3R	HORIZON	60+31	LT	49821.43	96686.98	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
3R	HORIZON	60+31	LT	49821.43	96686.98	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
4R	HORIZON	60+42	RT	49822.6	96700.15	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
4R	HORIZON	60+42	RT	49822.6	96700.15	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
5R	HORIZON	62+18	LT	49946.13	96825.69	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
5R	HORIZON	62+18	LT	49946.13	96825.69	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
6R	HORIZON	62+30	RT	49943.42	96845.31	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
6R	HORIZON	62+30	RT	49943.42	96845.31	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
7R	HORIZON	62+43	RT	49929.14	96880.52	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
7R	HORIZON	62+43	RT	49929.14	96880.52	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
8R	HORIZON	62+31	LT	49979.05	96811.06	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
8R	HORIZON	62+31	LT	49979.05	96811.06	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
9R	G RD	69+29	LT	49837.15	96879.61	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
9R	G RD	69+29	LT	49837.15	96879.61	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
10R	G RD	69+29	RT	49768.43	96824.58	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
10R	G RD	69+29	RT	49768.43	96824.58	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
11R	G RD	69+18	LT	49825.1	96858.47	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
11R	G RD	69+18	LT	49825.1	96858.47	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
12R	G RD	69+10	LT	49808.01	96833.72	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
12R	G RD	69+10	LT	49808.01	96833.72	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
13R	G RD	69+23	RT	49793.3	96837.47	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
13R	G RD	69+23	RT	49793.3	96837.47	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
14R	G RD	66+93	LT	49987.11	96701.99	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
14R	G RD	66+93	LT	49987.11	96701.99	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
15R	G RD	67+03	RT	49925.54	96667.95	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
15R	G RD	67+03	RT	49925.54	96667.95	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW LEFT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
16R	G RD	67+00	LT	49963.49	96692.8	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
16R	G RD	67+00	LT	49963.49	96692.8	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
17R	G RD	67+11	RT	49949.99	96696.31	30 X 30	W11-2	PEDESTRIAN CROSSING SIGN FLUORESCENT YELLOW-GREEN			6.25				1	
17R	G RD	67+11	RT	49949.99	96696.31	24 X 12	W16-7P	DOWNWARD DIAGONAL ARROW RIGHT SIGN FLUORESCENT YELLOW-GREEN			2.00					ON POST WITH SIGN ABOVE
18A	HORIZON	60+77	RT	49794.33	96762.91	36 X 36 X 36	R1-2	YIELD			3.90				1	
19A	HORIZON	60+55	RT	49823.6	96714.74	36 X 36 X 36	R1-2	YIELD			3.90				1	
20A	HORIZON	61+91	LT	49972.1	96763.6	36 X 36 X 36	R1-2	YIELD			3.90				1	
21A	HORIZON	62+09	LT	49947.37	96812.16	36 X 36 X 36	R1-2	YIELD			3.90				1	
22A	G RD	68+55	LT	49898.74	96874.95	36 X 36 X 36	R1-2	YIELD			3.90				1	
23A	G RD	68+85	LT	49850.34	96852.04	36 X 36 X 36	R1-2	YIELD			3.90				1	
24A	G RD	68+98	LT	49819.37	96827.94	36 X 36 X 36	R1-2	YIELD			3.90				1	
25A	G RD	67+35	RT	49895.64	96677.94	36 X 36 X 36	R1-2	YIELD			3.90				1	
26A	G RD	67+25	RT	49934.61	96700.87	36 X 36 X 36	R1-2	YIELD			3.90				1	
27B	HORIZON	61+30	RT	49852.18	96789.1	48 X 24	R6-4A	ROUNDBOUT DIRECTIONAL (3 CHEVRONS)			8.00				1	
28B	HORIZON	61+66	RT	49888.26	96808.32	48 X 24	R6-4A	ROUNDBOUT DIRECTIONAL (3 CHEVRONS)			8.00				1	
29B	HORIZON	61+52	LT	49918.76	96763.01	48 X 24	R6-4A	ROUNDBOUT DIRECTIONAL (3 CHEVRONS)			8.00				1	
30B	HORIZON	61+04	LT	49869.78	96741.79	48 X 24	R6-4A	ROUNDBOUT DIRECTIONAL (3 CHEVRONS)			8.00				1	
31	HORIZON	52+75	RT	49312.29	96134.66	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25				1	
32	HORIZON	52+75	RT	49312.29	96134.66	24 X 12	W16-9P	AHEAD (PLAQUE)			2.00					ON POST WITH SIGN ABOVE
33	HORIZON	56+75	RT	49553.88	96453.7	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25				1	
34	HORIZON	56+75	RT	49553.88	96453.7	24 X 24	W13-1P	ADVISORY SPEED (15 MPH) PLAQUE			4.00					ON POST WITH SIGN ABOVE
35	HORIZON	58+80	RT	49682.27	96607.05	48 X 36	R-8 (SPECIAL)	ADVANCE INTERSECTION LANE CONTROL SIGN (RT LANE - RT TURN & THRU, LT LANE - THRU & LT TURN AROUND DOT)							1	
36	HORIZON	58+87	CL	49717.86	96588.33	24 X 30	R4-7	KEEP RIGHT			5.00				1	
36a	HORIZON	59+90	RT	49771.08	96684.97	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
36b	HORIZON	59+93	RT	49792.11	96662.93	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
36c	HORIZON	62+68	LT	49996.63	96838.26	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
36d	HORIZON	62+59	LT	49971.62	96857.8	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
36e	G RD	66+59	RT	49951.32	96641.91	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
36f	G RD	66+56	CL	49982.01	96651.85	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
36g	G RD	69+66	LT	49806.2	96896.67	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	MAYBE INSTALLED ON XCEL LIGHT POST
36h	G RD	69+58	CL	49775.41	96867.44	36 X 36	R1-5	YIELD HERE TO PEDS			9.00				1	
<b>SHEET 1 SUBTOTAL</b>									<b>0</b>	<b>0</b>	<b>302.9</b>	<b>12</b>	<b>28</b>	<b>14</b>	<b>17</b>	

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 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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

As Constructed	HORIZON DR AND G RD ROUNDABOUT TABULATION OF FINAL SIGNING - 1		Project No./Code
No Revisions:			SHE M555-034
Revised:	Designer: JCS	Structure Numbers	23652
Void:	Detailer: JCS	Subset Sheets: X of X	Sheet Number 70




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**TABULATION OF FINAL SIGNING (CONT.)**

SIGN NO.	ALIGNMENT	STATION	SIDE	NORTHING	EASTING	DIMENSIONS	SIGN CODE	LEGEND	(210-00810)	(612-00041)	(614-00011)	(614-00012)	(614-01503)	(614-01573)	(614-80003)	NOTES
									RESET GROUND SIGN	DELINEATOR (FLEXIBLE) (TYPE 1)	SIGN PANEL (CLASS I)	SIGN PANEL (CLASS II)	STEEL SIGN SUPPORT (2" ROUND) (POST & SOCKET)	STEEL SIGN SUPPORT (2 1/2" ROUND NP-40) (POST & SLIPBASE)	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB)	
37	HORIZON	60+00	LT	49820.06	96640.24	EXISTING	D14-2	ADOPT A STREET ACKNOWLEDGMENT SIGN RESET TO SPECIFIED LOCATION	1							
38	HORIZON	60+51	LT	49843.57	96696.58	60 X 18	D3-1 (SPECIAL)	STREET NAME - HORIZON DR WITH DOWNWARD DIAGONAL ARROW RIGHT AND CITY OF GRAND JUNCTION LOGO			7.50		1			COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
39	G RD	68+98	RT	49806.98	96814.01	60 X 18	D3-1 (SPECIAL)	STREET NAME - 27 1/2 RD WITH DOWNWARD DIAGONAL ARROW RIGHT AND CITY OF GRAND JUNCTION LOGO			7.50		1			COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
40	G RD	69+49	LT	49800.51	96872.47	60 X 18	D3-1 (SPECIAL)	STREET NAME - HORIZON DR WITH DOWNWARD DIAGONAL ARROW RIGHT AND CITY OF GRAND JUNCTION LOGO			7.50		1			COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
41	HORIZON	62+13	RT	49924.27	96839.46	60 X 18	D3-1 (SPECIAL)	STREET NAME - HORIZON DR WITH DOWNWARD DIAGONAL ARROW RIGHT AND CITY OF GRAND JUNCTION LOGO			7.50		1			COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
42	G RD	67+24	LT	49952.22	96714.89	60 X 18	D3-1 (SPECIAL)	STREET NAME - G ROAD WITH DOWNWARD DIAGONAL ARROW RIGHT AND CITY OF GRAND JUNCTION LOGO			7.50		1			COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
43	G RD	59+41	RT	49981.39	95941.42	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25		1			
44	G RD	59+41	RT	49981.39	95941.42	24 X 12	W16-9P	AHEAD (PLAQUE)			2.00					ON POST WITH SIGN ABOVE
45	G RD	63+41	RT	49981.84	96341.42	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25		1			
46	G RD	63+41	RT	49981.84	96341.42	24 X 24	W13-1P	ADVISORY SPEED (15 MPH) PLAQUE			4.00					ON POST WITH SIGN ABOVE
47	G RD	65+56	RT	49966.87	96553.21	48 X 36	R-8 (SPECIAL)	ADVANCE INTERSECTION LANE CONTROL SIGN (RT LANE - RT TURN & THRU, LT LANE - LT TURN AROUND DOT)				12.00		1		
48	G RD	66+56	CL	49982.01	96651.85	24 X 30	R4-7	KEEP RIGHT			5.00					MAY BE INSTALLED ON XCEL LIGHT POST
49	G RD	66+43	LT	50012.88	96648.86	EXISTING	D14-2	ADOPT A STREET ACKNOWLEDGMENT SIGN RESET TO SPECIFIED LOCATION	1							
50	HORIZON	62+92	LT	50017.19	96849.23	EXISTING	D1-4A	DESTINATION AND DISTANCE SIGN FOR BIKERS - RESET TO SPECIFIED LOCATION	1							
51	HORIZON	62+92	LT	50017.19	96849.23	EXISTING	D1-2	DESTINATION SIGN - MAP FOR BIKERS - RESET TO SPECIFIED LOCATION	1							
52	HORIZON	62+78	LT	50003.53	96844.49	EXISTING	R14-1	TRUCK ROUTE - RESET TO SPECIFIED LOCATION	1							
53	HORIZON	65+00	RT	50133.49	97045.61	EXISTING	RS-031	BUS STOP SIGN - GRAND VALLEY TRANSIT - RESET TO NEW KIOSK	1							COORDINATE SIGN COMPOSITION AND PLACEMENT WITH GRAND VALLEY TRANSIT
54	HORIZON	64+46	LT	50149.09	96931.07	EXISTING	RS-031	BUS STOP SIGN - GRAND VALLEY TRANSIT - RESET TO NEW KIOSK	1							COORDINATE SIGN COMPOSITION AND PLACEMENT WITH GRAND VALLEY TRANSIT
55	HORIZON	63+75	LT	50086.53	96898.88	48 X 36	R-8 (SPECIAL)	ADVANCE INTERSECTION LANE CONTROL SIGN (RT LANE - RT TURN & THRU, LT LANE - THRU & LT TURN AROUND DOT)				12.00		1		
56	HORIZON	64+13	RT	50090.76	96955.04	54 X 18	R6-1R	ONE WAY RIGHT SIGN			6.75		1			
57	HORIZON	64+13	RT	50090.76	96955.04	36 X 36	R3-2	NO LEFT TURN			9.00					
58	HORIZON	64+30	RT	50074.39	97006.23	48 X 12	D3-1 (SPECIAL)	STREET NAME - HORIZON DR WITH CITY OF GRAND JUNCTION LOGO			4.00		1			COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
59	HORIZON	64+30	RT	50074.39	97006.23	48 X 12	D3-1 (SPECIAL)	STREET NAME - G ROAD WITH CITY OF GRAND JUNCTION LOGO			4.00					COORDINATE SIGN COMPOSITION WITH SCOTT FRAZIER, TRAFFIC CREW LEADER, CITY OF GJ, (970)256-4117
60	HORIZON	64+30	RT	50074.39	97006.23	36 X 36	R1-1	STOP			9.00					
61	HORIZON	64+51	RT	50099.48	97009.76	EXISTING	R1-5	YIELD HERE TO PIDS - RESET TO SPECIFIED LOCATION	1							
62	HORIZON	65+98	LT	50270.51	97024.63	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25		1			
63	HORIZON	65+98	LT	50270.51	97024.63	24 X 24	W13-1P	ADVISORY SPEED (15 MPH) PLAQUE			4.00					
64	HORIZON	69+67	LT	50584.96	97218.13	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25		1			
65	HORIZON	69+67	LT	50584.96	97218.13	24 X 12	W16-9P	AHEAD (PLAQUE)			2.00					
66	G RD	70+26	LT	49759.43	96947.02	EXISTING	D1-3A	DESTINATION AND DISTANCE SIGN FOR BIKERS - RESET TO SPECIFIED LOCATION	1							
67	G RD	70+26	LT	49759.43	96947.02	EXISTING	D1-2	DESTINATION SIGN - MAP FOR BIKERS - RESET TO SPECIFIED LOCATION	1							
68	G RD	70+11	LT	49779.32	96942.23	EXISTING	M4-5	TO SIGN - RESET TO SPECIFIED LOCATION	1					1		SIGN WILL BE REMOVED, SALVAGED, AND RESET TO NEW POST. INCLUDES ALL NEEDED HARDWARE
69	G RD	70+11	LT	49779.32	96942.23	EXISTING	M1-1	INTERSTATE ROUTE SIGN - RESET TO SPECIFIED LOCATION	1							SIGN WILL BE REMOVED, SALVAGED, AND RESET TO NEW POST. INCLUDES ALL NEEDED HARDWARE
70	G RD	70+11	LT	49779.32	96942.23	EXISTING	M6-1	DIRECTIONAL ARROW (RIGHT) - RESET TO SPECIFIED LOCATION	1							SIGN WILL BE REMOVED, SALVAGED, AND RESET TO NEW POST. INCLUDES ALL NEEDED HARDWARE
71	G RD	71+00	LT	49709.68	97002.54	48 X 36	R-8 (SPECIAL)	ADVANCE INTERSECTION LANE CONTROL SIGN (RT LANE - RT TURN, LT LANE - THRU & LT TURN AROUND DOT)				12.00		1		
72	G RD	70+71	RT	49679.21	96929.4	EXISTING	W11-3	NON-VEHICULAR WARNING SIGN (DEER) - RESET TO SPECIFIED LOCATION	1							
73	G RD	73+00	LT	49558.36	97133.26	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25		1			
74	G RD	73+00	LT	49558.36	97133.26	24 X 24	W13-1P	ADVISORY SPEED (15 MPH) PLAQUE			4.00					
75	G RD	77+00	LT	49241.13	97377.81	30 X 30	W2-6	CIRCULAR INTERSECTION			6.25		1			
76	G RD	77+00	LT	49241.13	97377.81	24 X 12	W16-9P	AHEAD (PLAQUE)			2.00					
77	G RD	72+37	CL	49582.07	97067.51	24 X 30	R4-7	KEEP RIGHT			5.00		1			
78	G RD	71+27	LT	49664.27	96994.7	54 X 18	R6-1R	ONE WAY RIGHT SIGN			6.75		1			LETS TRAFFIC EXITING STARBUCKS DEVELOPMENT KNOW ONLY RIGHT TURNS ALLOWED AND LEFTS ARE PROHIBITED
79	G RD	71+27	LT	49664.27	96994.7	36 X 36	R3-2	NO LEFT TURN			9.00					LETS TRAFFIC EXITING STARBUCKS DEVELOPMENT KNOW ONLY RIGHT TURNS ALLOWED AND LEFTS ARE PROHIBITED
80	G RD	71+40	LT	49655.17	97003.73			DELINEATOR (FLEXIBLE) (TYPE 1)		1						
									SHEET 2 SUBTOTAL	14	1	151.5	36	16	3	0
									SHEET 1 SUBTOTAL	0	0	302.9	12	28	14	17
									PROJECT TOTAL	14	1	454.4	48	44	17	17

NOTE: REMOVAL OF GROUND SIGN INCLUDES PLACING SIGNS ON TEMPORARY SUPPORTS DURING THE WORK

Print Date: 6/18/2024 7:33:54 AM  
 File Name: TABULATION OF FINAL SIGNING.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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

As Constructed  
 No Revisions:  
 Revised:  
 Void:

HORIZON DR AND G RD ROUNDABOUT  
 TABULATION OF FINAL  
 SIGNING - 2

Designer: JCS  
 Detailer: JCS  
 TABULATION OF FINAL SIGNING

Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 71

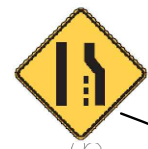


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SPEED LIMIT 40 SIGN (R2-1) REMAINS IN PLACE

MERGE (W4-2) REMAINS IN PLACE ON EXISTING LIGHT POLE



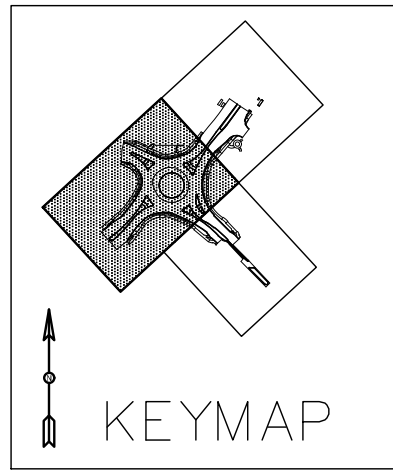
614-80003 - RECTANGULAR RAPIDLY FLASHING BEACON (RRFB). THE ROUNDABOUT INCLUDES 17 RRFB INSTALLATIONS. EACH INSTALLATION INCLUDES A RECTANGULAR FLASHING BEACON, A PUSH BUTTON, A W11-2 PEDESTRIAN WARNING SIGN, AND A W16-7P DIAGONAL ARROW SIGN. THESE LOCATIONS ARE DENOTED WITH 'R' SIGN NUMBERS.

RRFB installation recommendations:  
 a. The button should be a high contrast tactile arrow.  
 b. It should have a quiet locator tone to locate the button.  
 c. When the lights come on there should be a speech message "Yellow Lights Are Flashing."  
 d. If the crossing is skewed or long there is an optional locator beacon on the far side of the crossing.

- 1R 2R 7R 8R 3R 4R 5R 6R
- 9R 10R 11R 14R 15R 12R 13R 16R 17R



SPEED LIMIT 35 SIGN (R2-1) REMAINS IN PLACE



- 31 W2-6
- 32 W16-9P
- 33 W2-6
- 34 W13-1P

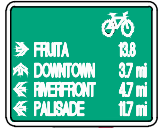
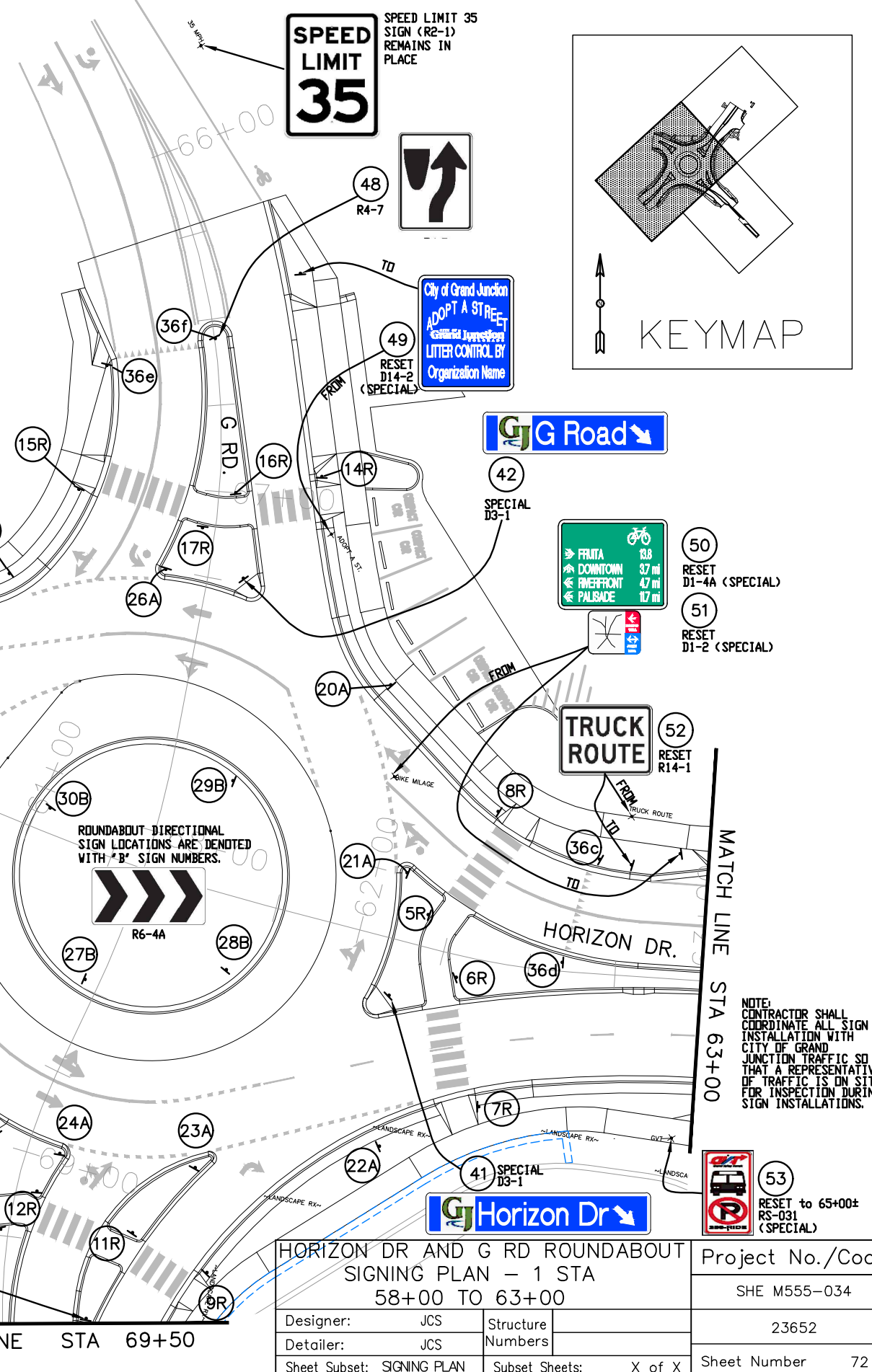
- PROTECT I-5
- PROTECT M4-5
- PROTECT M1-1
- PROTECT M6-3

- 35 R-8 (SPECIAL)
- 36 R4-7
- 37 RESET D14-2 (SPECIAL)
- 36a 36c
- 36e
- 36b 36d
- 36f



YIELD SIGN LOCATIONS ARE DENOTED WITH 'A' SIGN NUMBERS.

- 18A 19A 20A 21A
- 22A 23A 24A 25A 26A
- 39 SPECIAL D3-1
- 40 SPECIAL D3-1



- 50 RESET D1-4A (SPECIAL)
- 51 RESET D1-2 (SPECIAL)



- 52 RESET R14-1

NOTE: CONTRACTOR SHALL COORDINATE ALL SIGN INSTALLATION WITH CITY OF GRAND JUNCTION TRAFFIC SD THAT A REPRESENTATIVE OF TRAFFIC IS ON SITE FOR INSPECTION DURING SIGN INSTALLATIONS.

- 53 RESET to 65+00+ RS-031 (SPECIAL)

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Region 3 KC

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 Unit Information: City of GJ Unit Leader Initials: LF

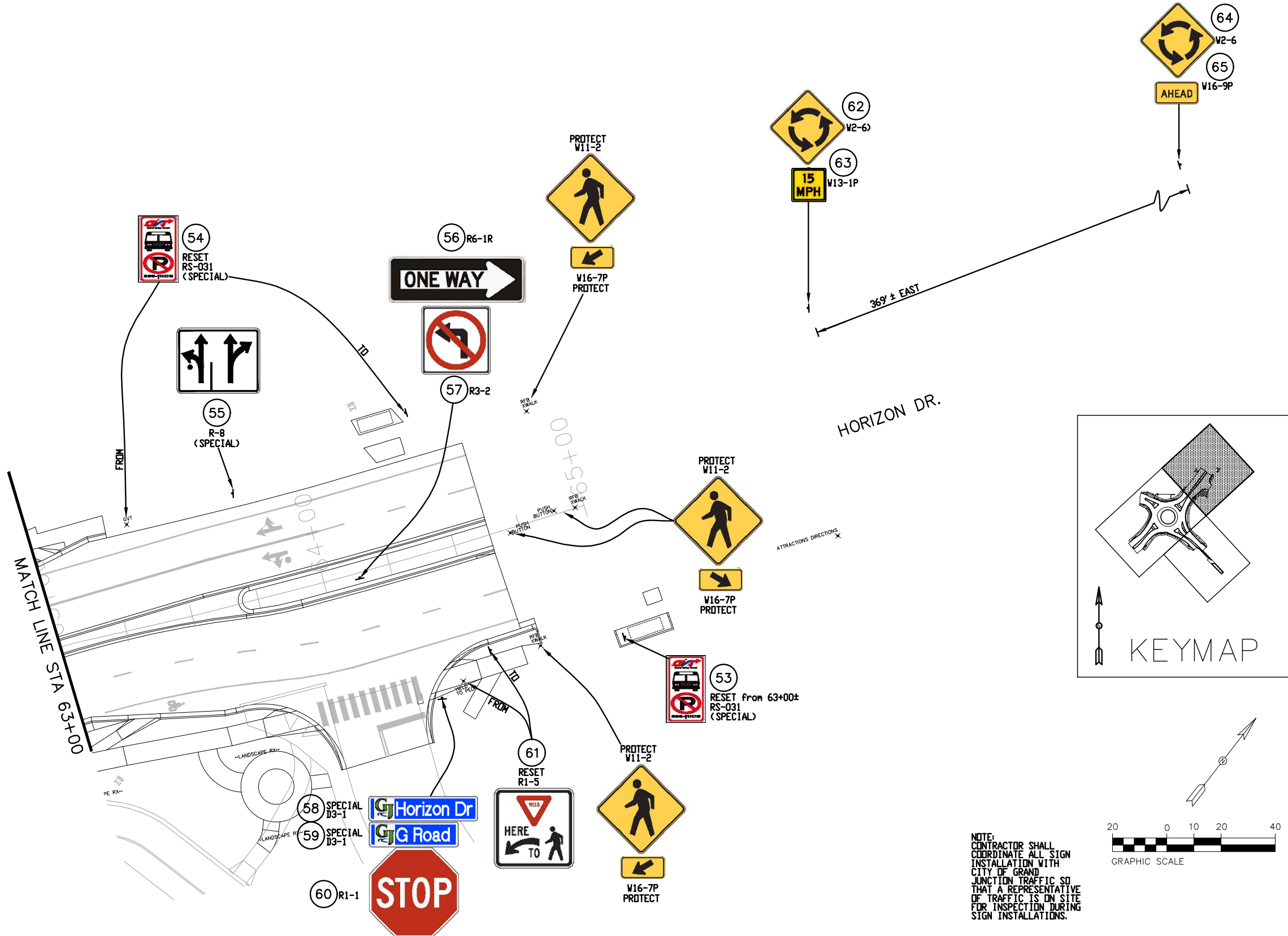
**City of Grand Junction**  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

As Constructed		
No Revisions:		
Revised:		
Void:		
Sheet Revisions		
Date:	Comments	Init.

HORIZON DR AND G RD ROUNDABOUT SIGNING PLAN - 1 STA 58+00 TO 63+00		Project No./Code
Designer: JCS		SHE M555-034
Detailer: JCS		23652
Sheet Subset: SIGNING PLAN		Sheet Number 72
Structure Numbers		
Subset Sheets: X of X		

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SOUTH SIDE OF HORIZON COMPLEX DRIVEWAY CUT



NOTE:  
CONTRACTOR SHALL  
COORDINATE ALL SIGN  
INSTALLATION WITH  
CITY OF GRAND  
JUNCTION TRAFFIC SO  
THAT A REPRESENTATIVE  
OF TRAFFIC IS ON SITE  
FOR INSPECTION DURING  
SIGN INSTALLATIONS.



Print Date: 6/18/2024 7:33:57 AM	
File Name: SIGNING PLAN.dwg	
Horiz. Scale: AS SHOWN Vert. Scale: NA	
Unit Information: City of GJ Unit Leader Initials: LF	
	333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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

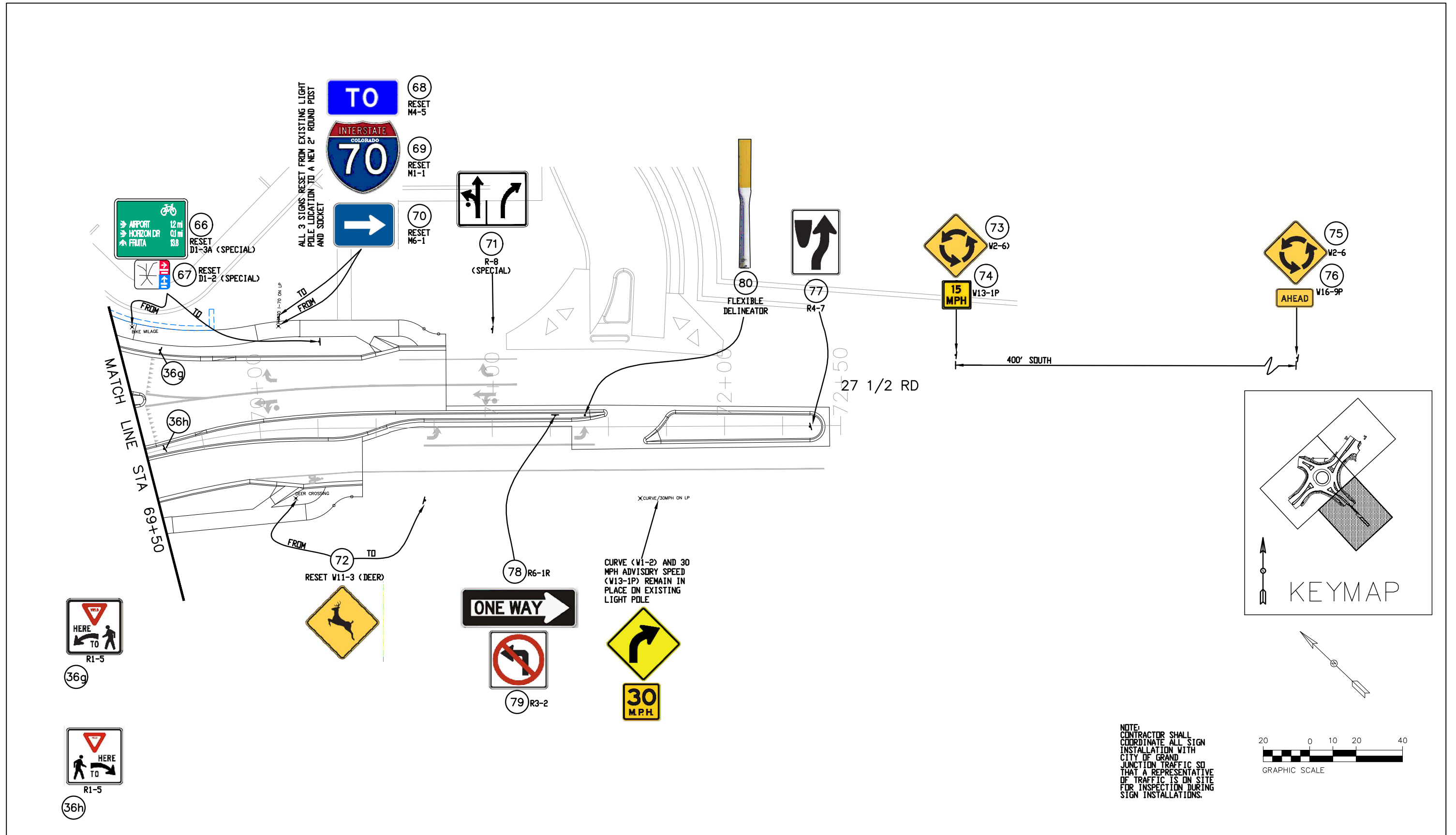
Region 3 KC

As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT SIGNING PLAN - 2 STA 63+00 TO 65+00	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: SIGNING PLAN	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 73

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NOTE:  
CONTRACTOR SHALL  
COORDINATE ALL SIGN  
INSTALLATION WITH  
CITY OF GRAND  
JUNCTION TRAFFIC SO  
THAT A REPRESENTATIVE  
OF TRAFFIC IS ON SITE  
FOR INSPECTION DURING  
SIGN INSTALLATIONS.

Print Date: 6/18/2024 7:33:57 AM	Sheet Revisions			Colorado Department of Transportation	As Constructed	HORIZON DR AND G RD ROUNDABOUT		Project No./Code
File Name: SIGNING PLAN.dwg	Date:	Comments	Init.			SIGNING PLAN - 3 STA		
Horiz. Scale: AS SHOWN Vert. Scale: NA				606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369	No Revisions:	69+50 TO 72+00		23652
Unit Information: City of GJ Unit Leader Initials: LF					Region 3	Revised:	Designer: JCS	Structure Numbers
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554				KC	Void:	Detailer: JCS	Subset Sheets: X of X	



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TABULATION OF FINAL STRIPING

Main data table with columns for LOCATION, (627-00008) MODIFIED EPOXY PAVEMENT MARKING, (627-30407) PREFORMED THERMOPLASTIC PAVEMENT MARKING (CONCRETE AND ASPHALT), (627-30411) PREFORMED THERMOPLASTIC PAVEMENT MARKING (SPECIAL), (627-02010) PREFORMED PLASTIC PAVEMENT MARKING (TYPE II) (INLAID), and COMMENTS. Includes subtotals for SHEET 1 at the bottom of the table.

Print Date: 6/18/2024 8:07:38 AM
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Horiz. Scale: AS SHOWN Vert. Scale: NA
Unit Information: City of GJ Unit Leader Initials: LF
CITY OF Grand Junction COLORADO
333 WEST AVE, BLDG C
Grand Junction, CO, 81501
Phone: 970-244-1554

Sheet Revisions table with columns: Date, Comments, Init.

Colorado Department of Transportation
606 South 9th Street
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Phone: 970-683-6351 FAX: 970-683-6369
Region 3 KC

As Constructed
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HORIZON DR AND G RD ROUNDABOUT
TABULATION OF FINAL STRIPING - 1
Designers: JCS
Detailers: JCS
Structure Numbers
Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 75

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**TABULATION OF FINAL STRIPING**


LOCATION	(627-00013) PAVEMENT MARKING PAINT (HIGH BUILD) GAL	(627-00008) MODIFIED EPOXY PAVEMENT MARKING			(627-30407) PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) (SPECIAL) CONCRETE AND ASPHALT													(627-30411) PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK- STOP LINE) (SPECIAL)		(627-02010) PREFORMED PLASTIC PAVEMENT MARKING (TYPE II) (INLAID) (QUANTITIES BELOW INCLUDE BLACK BACKGROUND PAINT)										COMMENTS
		DOUBLE YELLOW SOLID	WHITE SOLID	WHITE SOLID	LEFT ARROW (15.5 SF)	RIGHT ARROW (15.5 SF)	STRAIGHT ARROW (12.5 SF)	STRAIGHT / LEFT ARROW (27.5 SF)	STRAIGHT / RIGHT ARROW (27.5 SF)	DROP LANE ARROW (58 SF)	BIKE SYMBOL (12 SF)	12 X 18 SHARK TEETH YIELD SYMBOL (0.75 SF)	CIRCLE (3.1 SF)	WHITE SOLID	WHITE BROKEN	WHITE SOLID	DOUBLE YELLOW SOLID	WHITE DOTTED LINE (2' SEGMENT, 3' GAP)												
		4 INCH	4 INCH	8 INCH	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF				
		LF	LF	LF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF	EA	SF				
<b>G ROAD</b>																														
66+58, 5' RT TO 66+58, 29' RT																		12									SHARK TEETH YIELD BAR SOUTH BOUND LEG IN			
66+22, 29' RT TO 66+55, 29' RT																				28							EDGE LINE S SIDE OF G ROAD			
67+06																											CROSSWALK NORTH WEST LEG			
67+21, 21' RT					1																					1	SOUTH BOUND LEG IN			
67+27, 36' RT									1																		SOUTH BOUND LEG IN			
67+28, 17' RT TO 67+40, 50' RT																											34	SOUTH BOUND LEG IN		
<b>27 1/2 ROAD</b>																														
68+77, 51' LT TO 68+41, 97' LT																											60	NORTH BOUND LEG IN		
68+94, 11' LT TO 68+82, 44' LT																											35	NORTH BOUND LEG IN		
68+80, 62' LT									1																			NORTH BOUND LEG IN		
69+02, 21' LT											1																	NORTH BOUND LEG IN		
69+15																												108	CROSSWALK AT NORTH BOUND LEG IN	
<b>HORIZON DRIVE</b>																														
63+00, 28' LT TO 64+64 31' LT																														
63+85, 24' LT																														
63+85, 13' LT																														
63+00, 16' LT TO 64+02, 18' LT																														
64+02, 18' LT TO 64+64, 18' LT																														
63+00, 16' RT TO 64+64, 21' RT																														
63+10, 28' RT TO 64+64, 32' RT																														
63+37, 31' RT																														
63+86, 46' RT TO 64+22, 46' RT																														
64+04, 57' RT TO 64+22, 57' RT																														
64+04, 57' RT TO 64+04, 68' RT																														
<b>27 1/2 ROAD</b>																														
69+55, 4' LT TO 69+60, 39' LT																														
69+55, 22' LT TO 70+80, 18' LT																														
70+05, 12' LT																														
70+05, 21' LT																														
70+60, 29' LT TO 70+80 29' LT																														
69+93, 20' RT TO 70+44, 19' RT																														
70+23, 22' RT																														
70+80 29' LT TO 71+11, 29' LT																														
71+00, 24' LT																														
70+80 18' LT TO 71+11, 18' LT																														
71+00, 13' LT																														
70+75, 4' RT																														
71+40, 4' RD																														
70+70, 8' LT TO 71+44, 8' LT																														
70+44, 19' RT TO 72+43, 19' RT																														
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<b>SHEET 2 SUBTOTAL (SF) =</b>	0	0	153	140	46.5	46.5	0.0	110.0	55.0	0.0	24.0	21.0	15.5	216	616	145	25	172	7	35								<b>SHEET 2 SUBTOTAL (SF) =</b>		
<b>SHEET 1 SUBTOTAL (LF) =</b>		1532	260	126	2	0	3	6	4	1	2	24	4	216	141	242	559	120	382									<b>SHEET 1 SUBTOTAL (LF) =</b>		
<b>SHEET 1 SUBTOTAL (SF) =</b>	100	510	87	84	31	0	38	165	110	58	24	18	12	432	47	26	375	40	102								<b>SHEET 1 SUBTOTAL (SF) =</b>			
<b>TOTAL (LF) =</b>		1532	720	336	5	3	3	10	6	1	4	52	9	524	579	467	816	142	511								<b>TOTAL (LF) =</b>			
<b>TOTAL (SF) =</b>	100	510	240	224	78	47	38	275	165	58	48	39	28	1048	191	51	547	47	137								<b>TOTAL (SF) =</b>			
<b>TOTAL (GAL) WHERE APPLICABLE =</b>	1	6	3	2																							<b>TOTAL (GAL) WHERE APPLICABLE =</b>			

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 Unit Information: City of GJ    Unit Leader Initials: LF

**CITY OF GRAND JUNCTION**  
 COLORADO  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

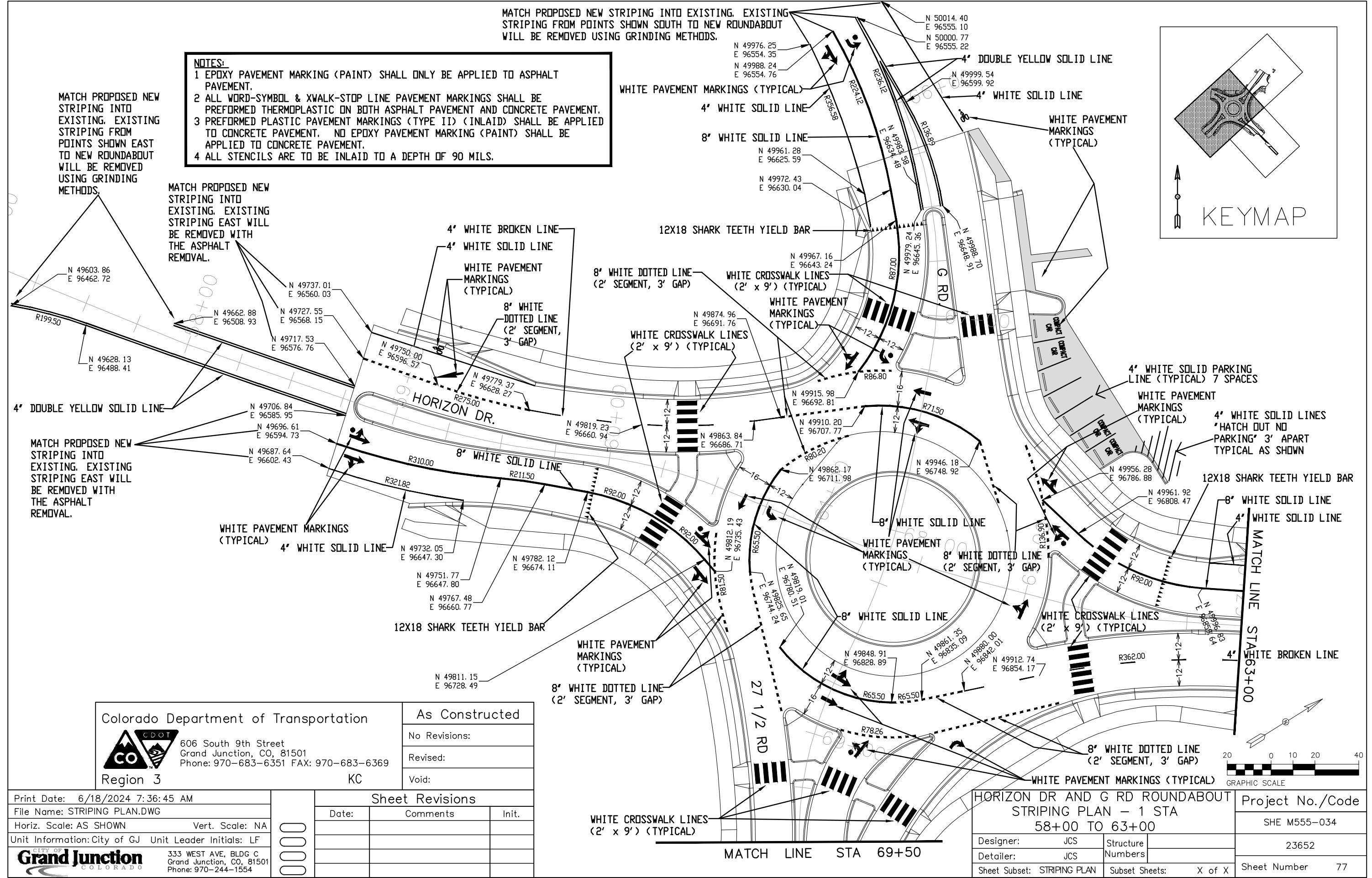
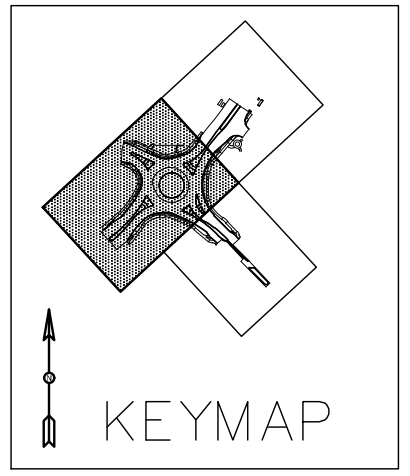

 606 South 9th Street  
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 Region 3      KC

As Constructed	HORIZON DR AND G RD ROUNDABOUT TABULATION OF FINAL STRIPING - 2		Project No./Code
No Revisions:	Designer: JCS    Structure Numbers		SHE M555-034
Revised:	Detailer: JCS		23652
Void:	TABULATION OF FINAL STRIPING	Subset Sheets: X of X	Sheet Number 76

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\DESIGN\STRIPING PLAN.DWG, 6/18/2024 7:36:44 AM

MATCH PROPOSED NEW STRIPING INTO EXISTING. EXISTING STRIPING FROM POINTS SHOWN SOUTH TO NEW ROUNDABOUT WILL BE REMOVED USING GRINDING METHODS.

- NOTES:**
- 1 EPOXY PAVEMENT MARKING (PAINT) SHALL ONLY BE APPLIED TO ASPHALT PAVEMENT.
  - 2 ALL WORD-SYMBOL & XWALK-STOP LINE PAVEMENT MARKINGS SHALL BE PERFORMED THERMOPLASTIC ON BOTH ASPHALT PAVEMENT AND CONCRETE PAVEMENT.
  - 3 PREFORMED PLASTIC PAVEMENT MARKINGS (TYPE II) (INLAID) SHALL BE APPLIED TO CONCRETE PAVEMENT. NO EPOXY PAVEMENT MARKING (PAINT) SHALL BE APPLIED TO CONCRETE PAVEMENT.
  - 4 ALL STENCILS ARE TO BE INLAID TO A DEPTH OF 90 MILS.



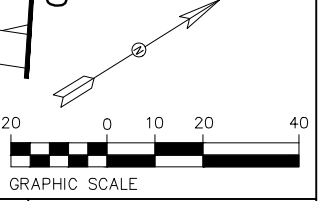
Colorado Department of Transportation  
  
 606 South 9th Street  
 Grand Junction, CO, 81501  
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Void:		

Print Date: 6/18/2024 7:36:45 AM	 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554
File Name: STRIPING PLAN.DWG	
Horiz. Scale: AS SHOWN Vert. Scale: NA	
Unit Information: City of GJ Unit Leader Initials: LF	

Sheet Revisions		
Date:	Comments	Init.

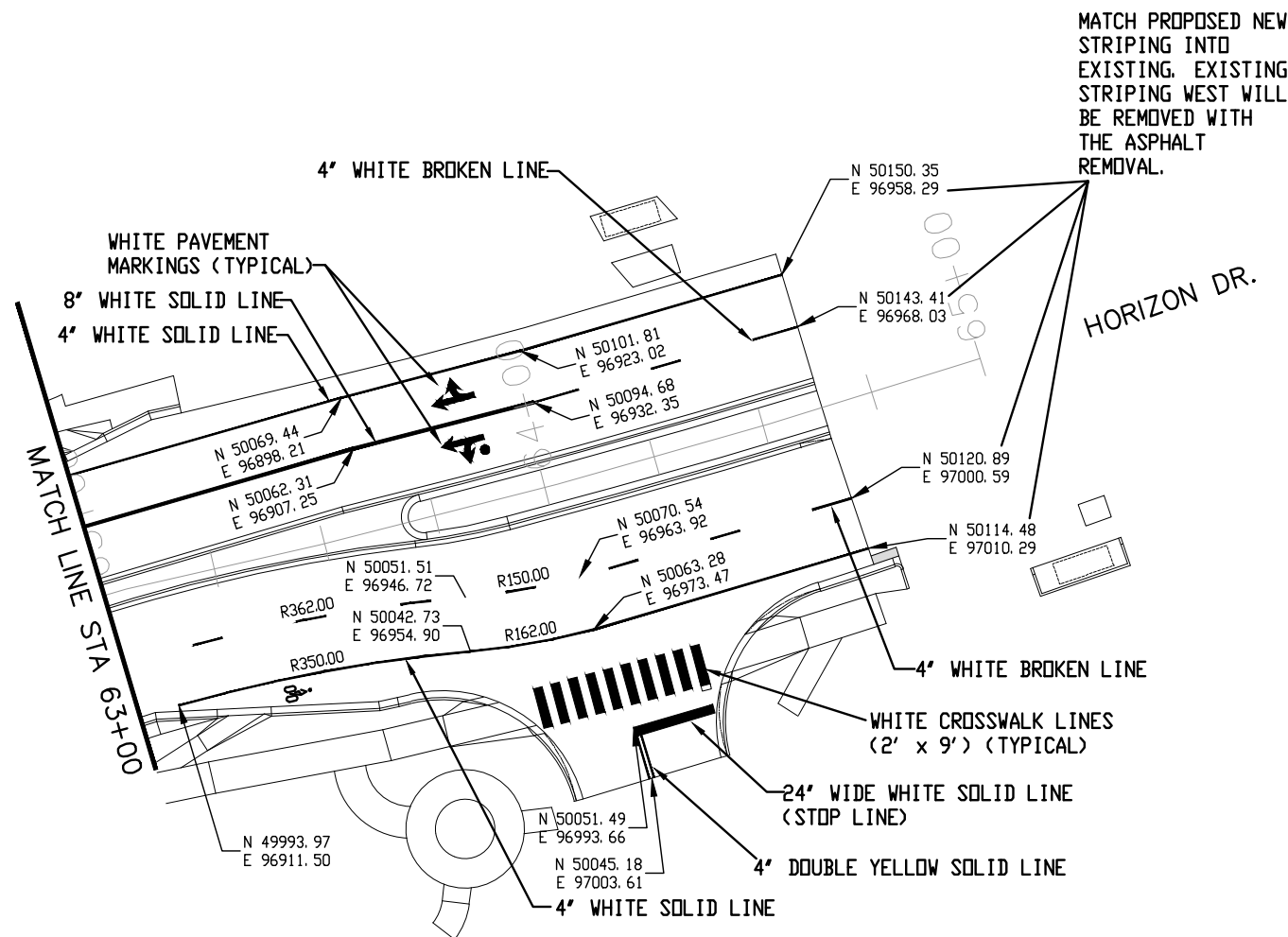
HORIZON DR AND G RD ROUNDABOUT STRIPING PLAN - 1 STA 58+00 TO 63+00		Project No./Code	
		SHE M555-034	
Designer: JCS	Structure Numbers	23652	
Detailer: JCS			
Sheet Subset: STRIPING PLAN	Subset Sheets: X of X	Sheet Number 77	



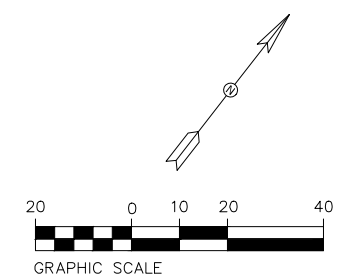
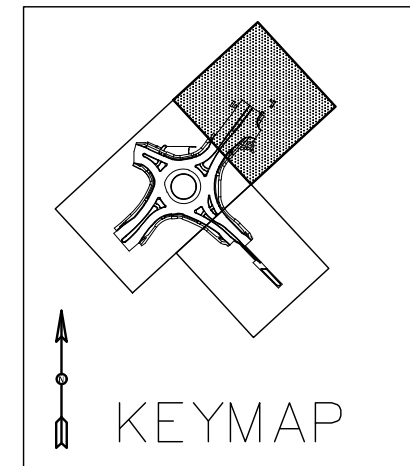


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**NOTES:**  
 1 EPOXY PAVEMENT MARKING (PAINT) SHALL ONLY BE APPLIED TO ASPHALT PAVEMENT.  
 2 ALL WORD-SYMBOL & XWALK-STOP LINE PAVEMENT MARKINGS SHALL BE PREFORMED THERMOPLASTIC ON BOTH ASPHALT PAVEMENT AND CONCRETE PAVEMENT.  
 3 PREFORMED PLASTIC PAVEMENT MARKINGS (TYPE II) (INLAID) SHALL BE APPLIED TO CONCRETE PAVEMENT. NO EPOXY PAVEMENT MARKING (PAINT) SHALL BE APPLIED TO CONCRETE PAVEMENT.  
 4 ALL STENCILS ARE TO BE INLAID TO A DEPTH OF 90 MILS.



MATCH PROPOSED NEW STRIPING INTO EXISTING. EXISTING STRIPING WEST WILL BE REMOVED WITH THE ASPHALT REMOVAL.



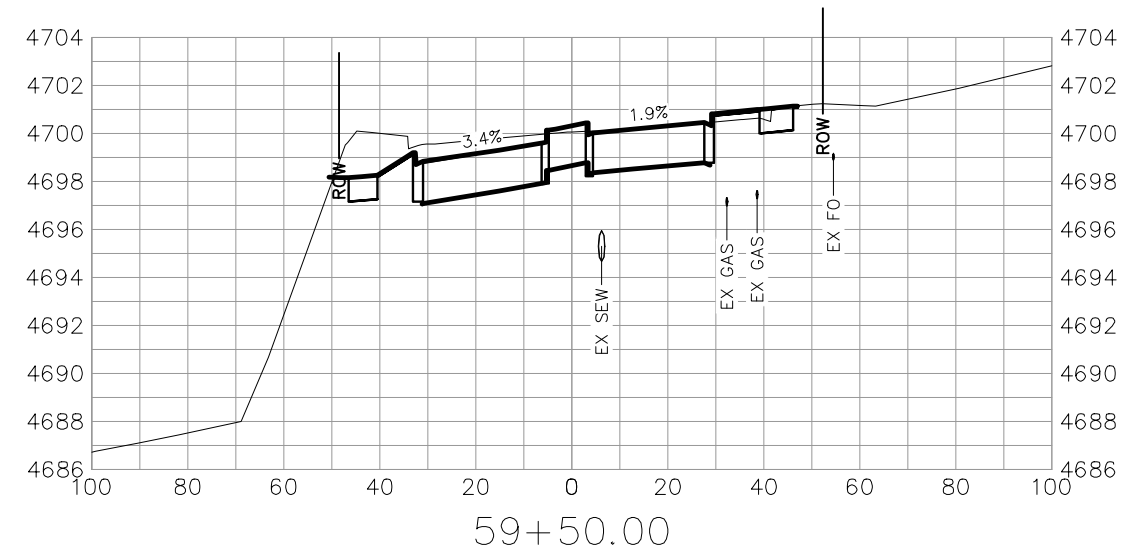
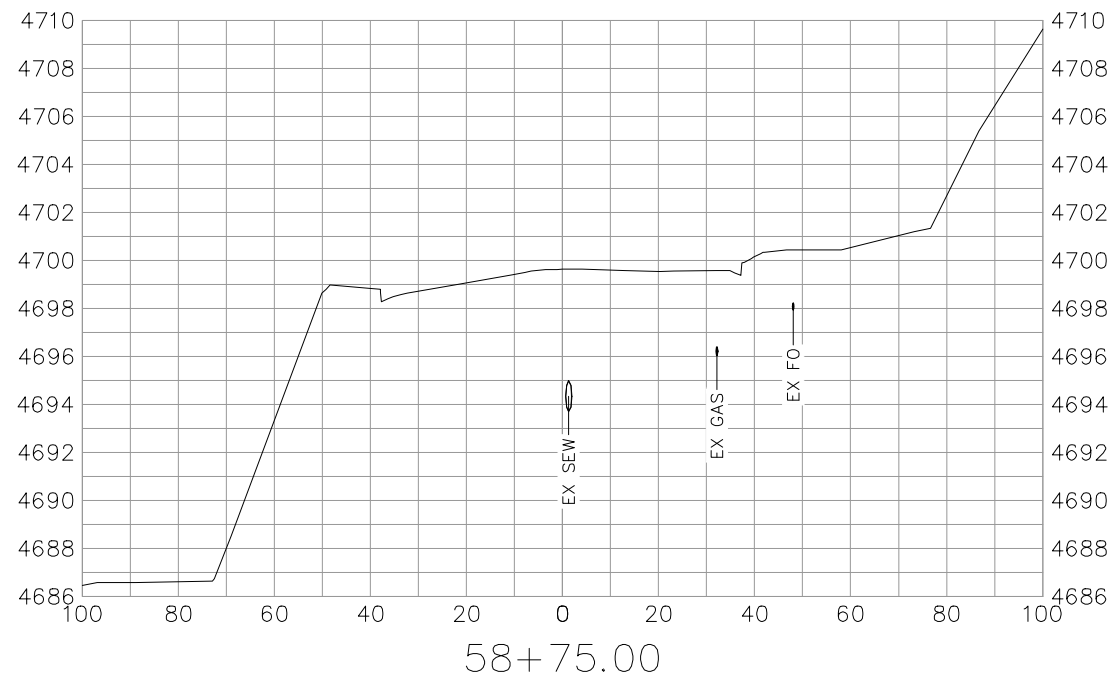
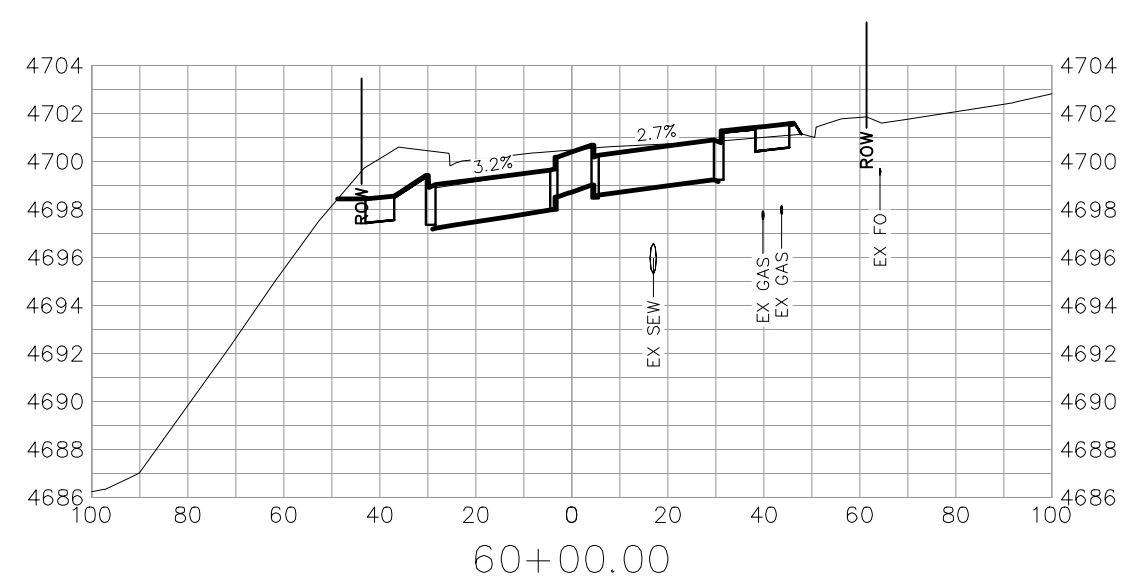
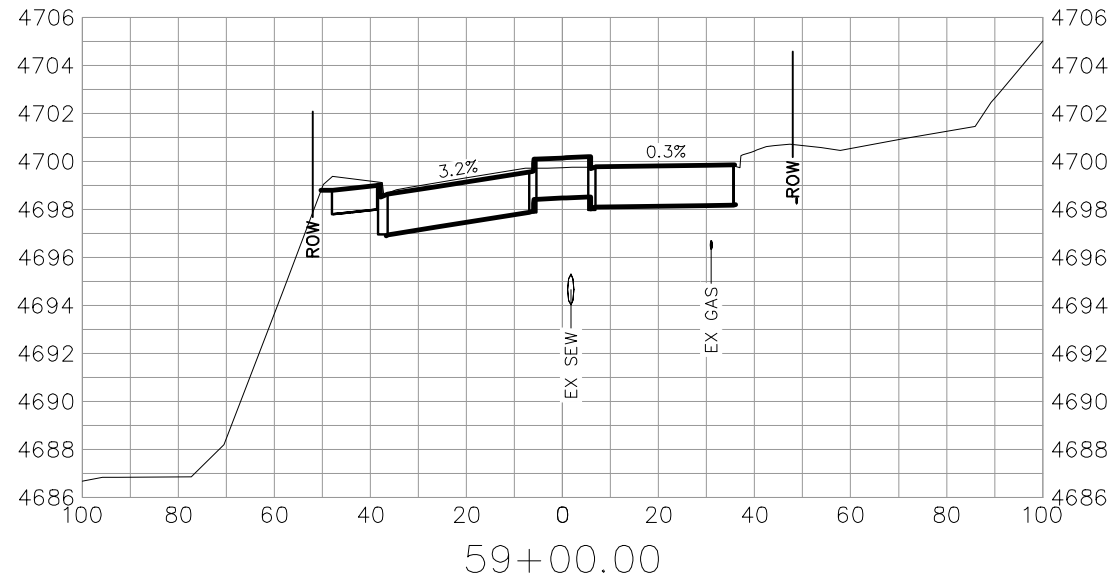
NOTE:  
SEE STAKING PLANS FOR STAKING DATA AND ELEVATIONS.

Print Date: 6/18/2024 7:36:46 AM	Sheet Revisions			Colorado Department of Transportation	As Constructed	HORIZON DR AND G RD ROUNDABOUT		Project No./Code
File Name: STRIPING PLAN.DWG	Date:	Comments	Init.			STRIPING PLAN - 2 STA		
Horiz. Scale: AS SHOWN Vert. Scale: NA				 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369	No Revisions:	63+00 TO 65+00		23652
Unit Information: City of GJ Unit Leader Initials: LF						 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554	Revised:	
				Region 3	Void:			Detailer: JCS





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**'FOR INFORMATION ONLY'**  
**SEE STAKING PLAN FOR PROPOSED GRADES**

Print Date: 6/18/2024 7:36:49 AM
File Name: CROSS SECTION.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF Grand Junction</b> 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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

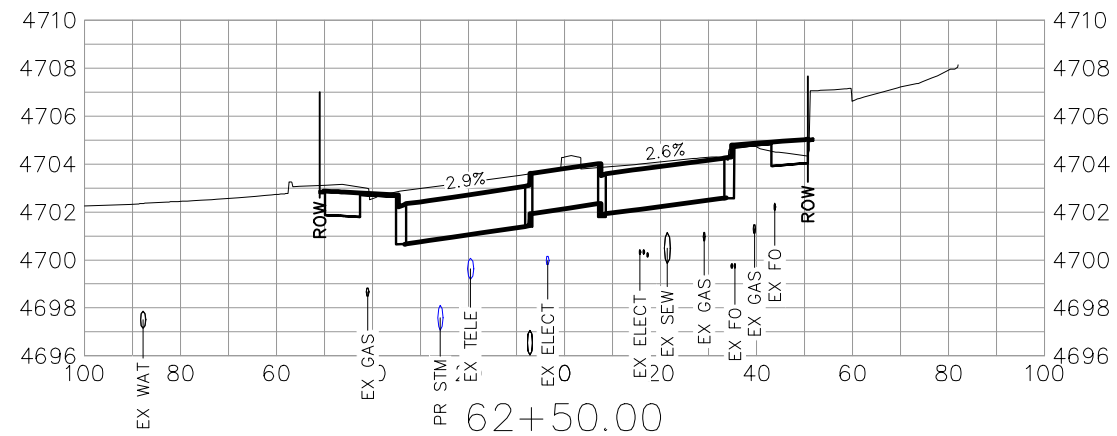
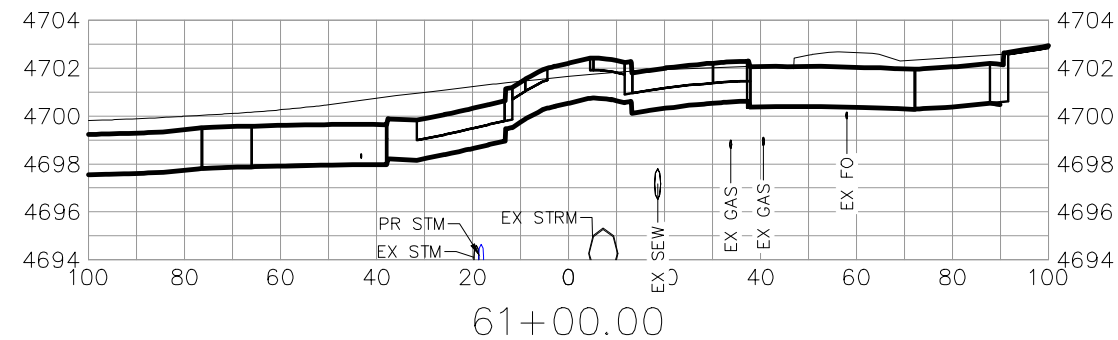
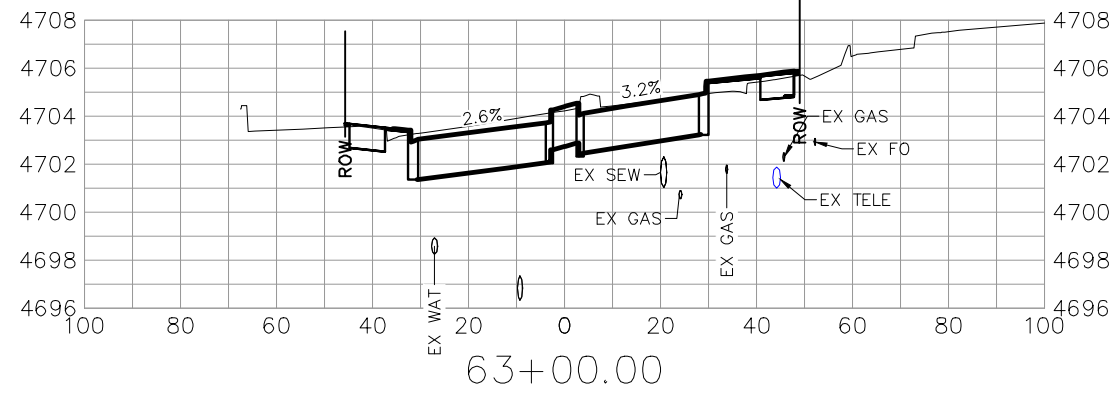
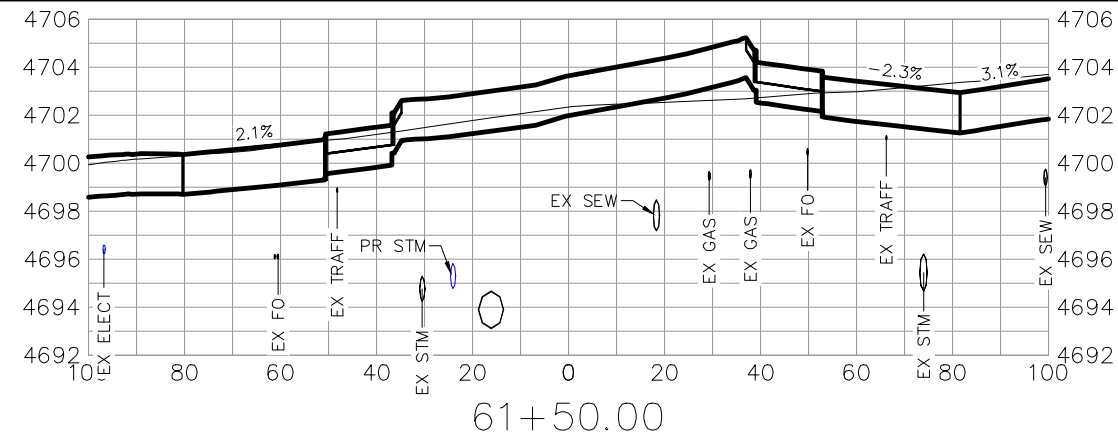
Region 3      KC

As Constructed
No Revisions:
Revised:
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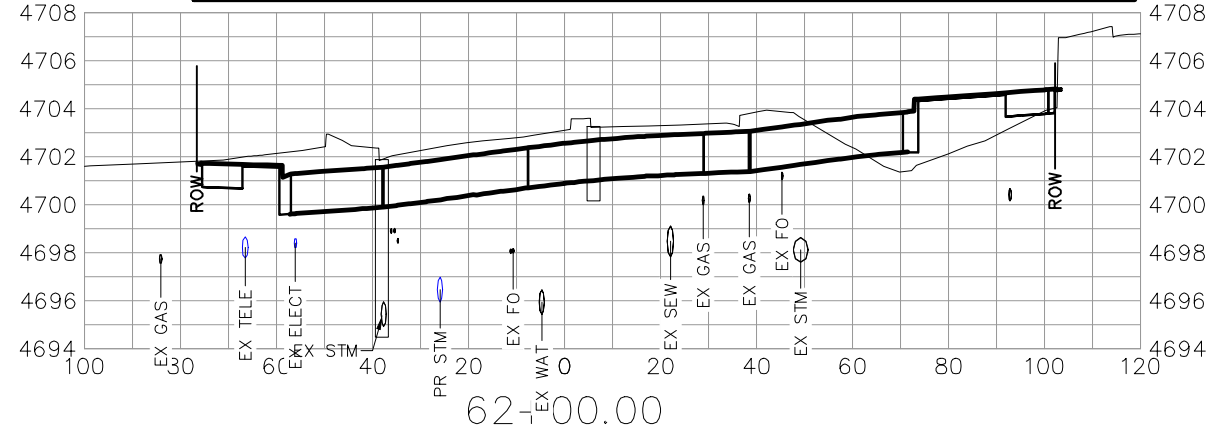
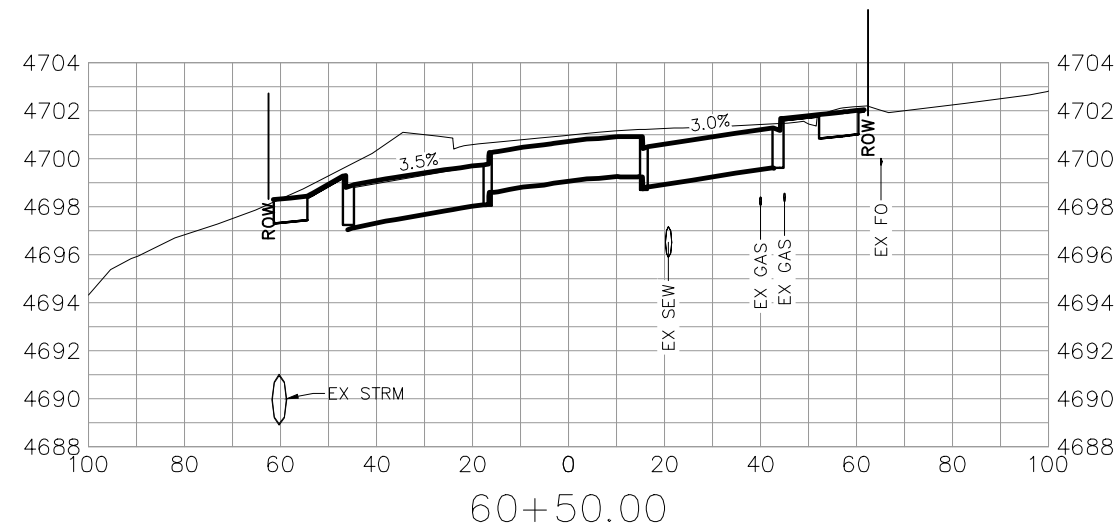
HORIZON DR AND G RD ROUNDABOUT CROSS SECTION - 1 STA 58+75 TO 60+00	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: CROSS SECTION	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 80

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\DESIGN\CROSS SECTION.dwg, 6/18/2024 7:36:50 AM




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Print Date: 6/18/2024 7:36:52 AM
File Name: CROSS SECTION.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF Grand Junction COLORADO</b>
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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

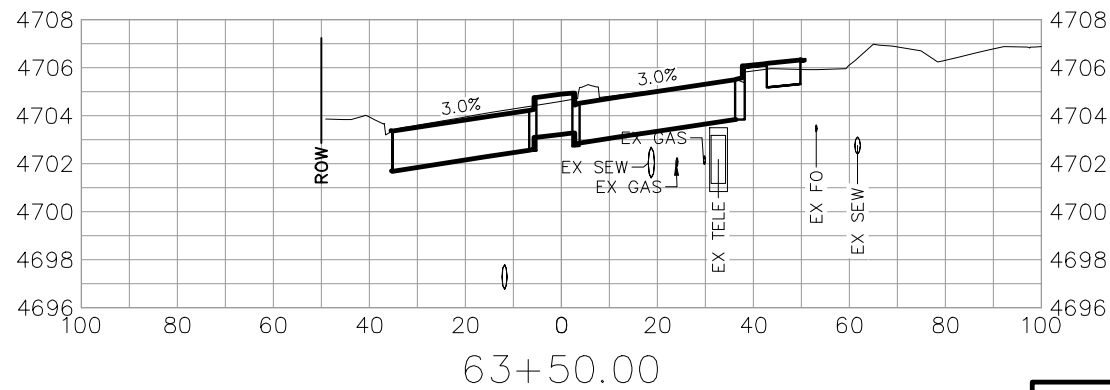
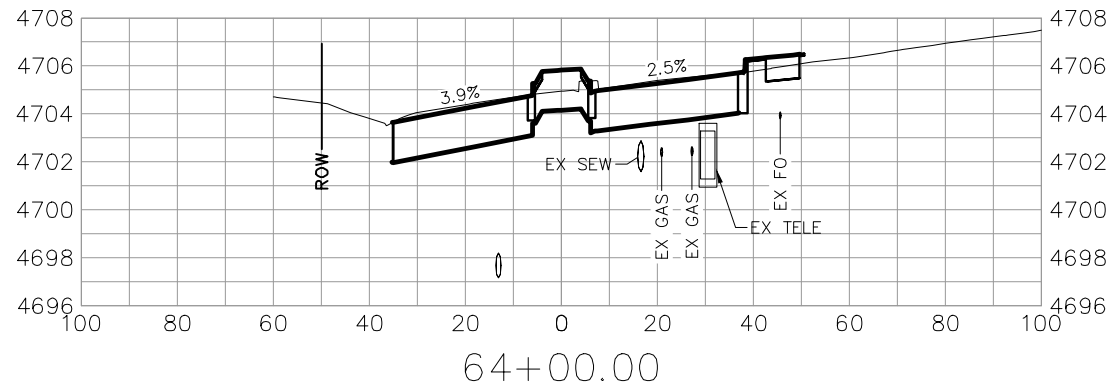
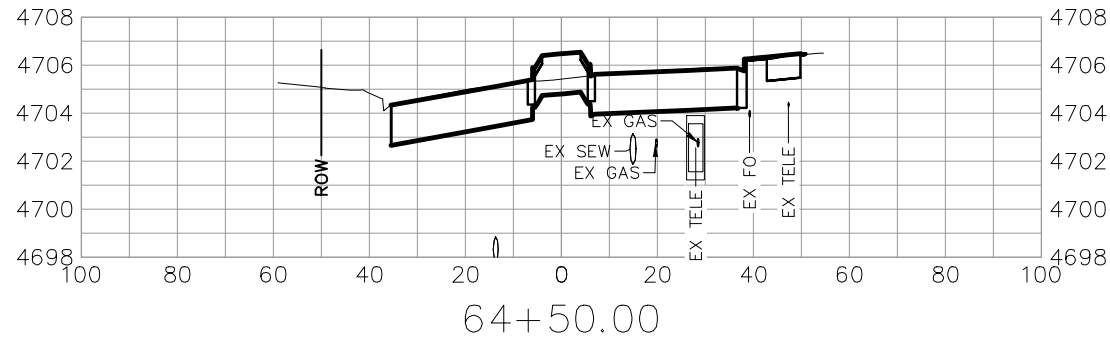
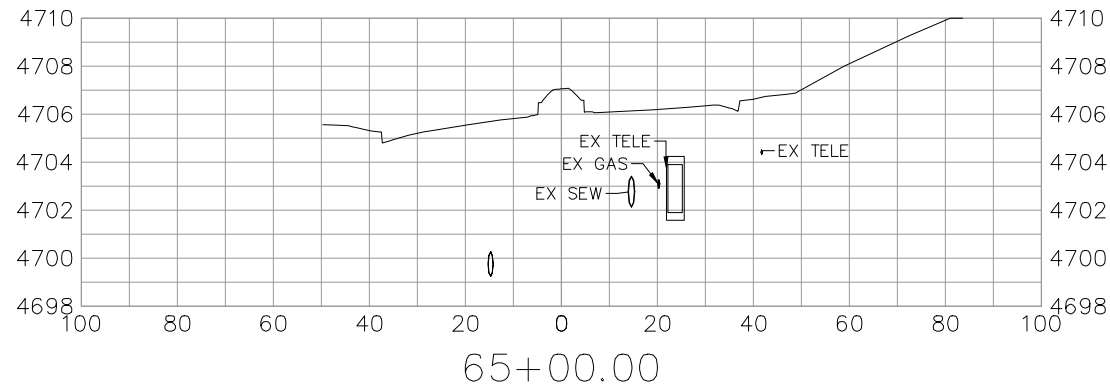
Region 3      KC

As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT CROSS SECTION - 2 STA 60+50 TO 63+00			
Designer: JCS	Structure Numbers		
Detailer: JCS			
Sheet Subset: CROSS SECTION	Subset Sheets: X of X		

Project No./Code
SHE M555-034
23652
Sheet Number 81

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Print Date: 6/18/2024 7:36:55 AM
File Name: CROSS SECTION.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF Grand Junction</b> COLORADO 333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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Region 3      KC

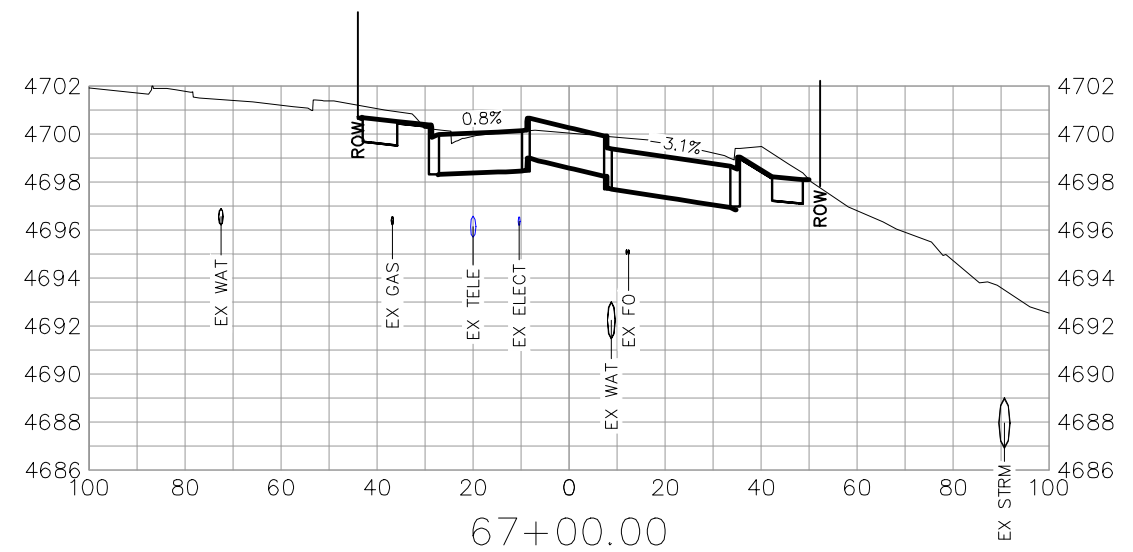
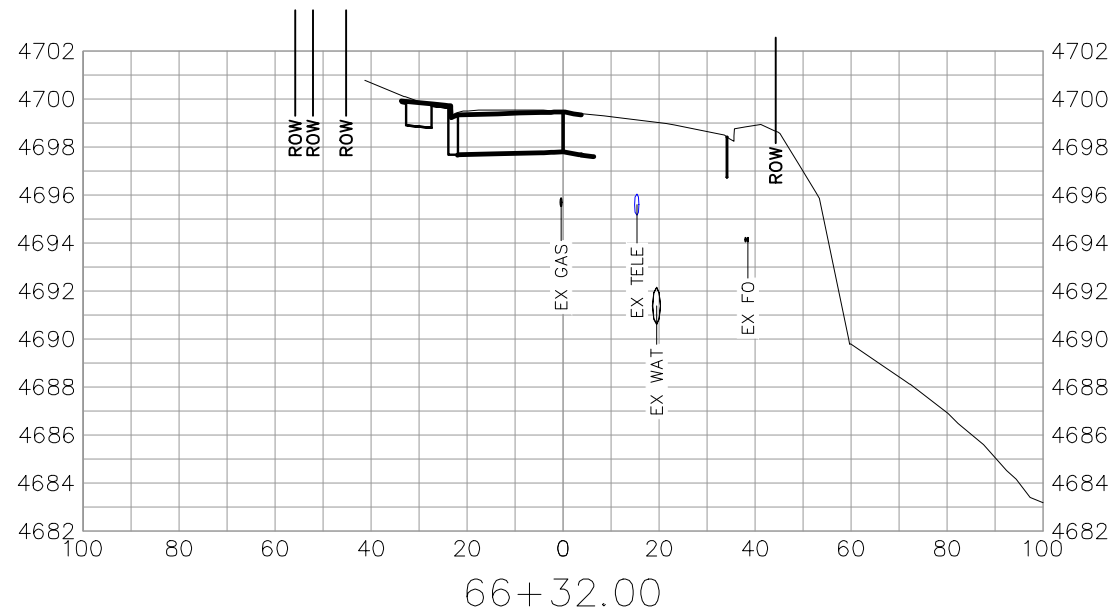
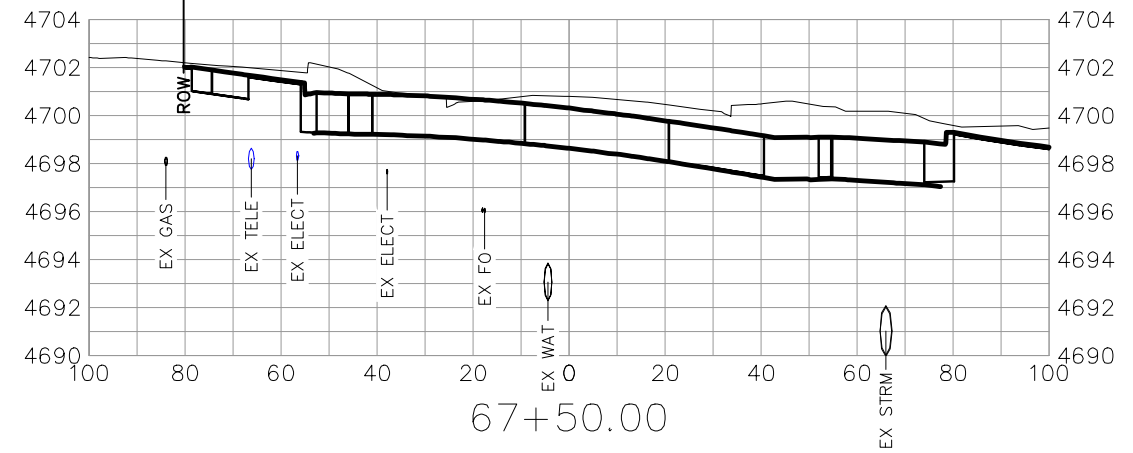
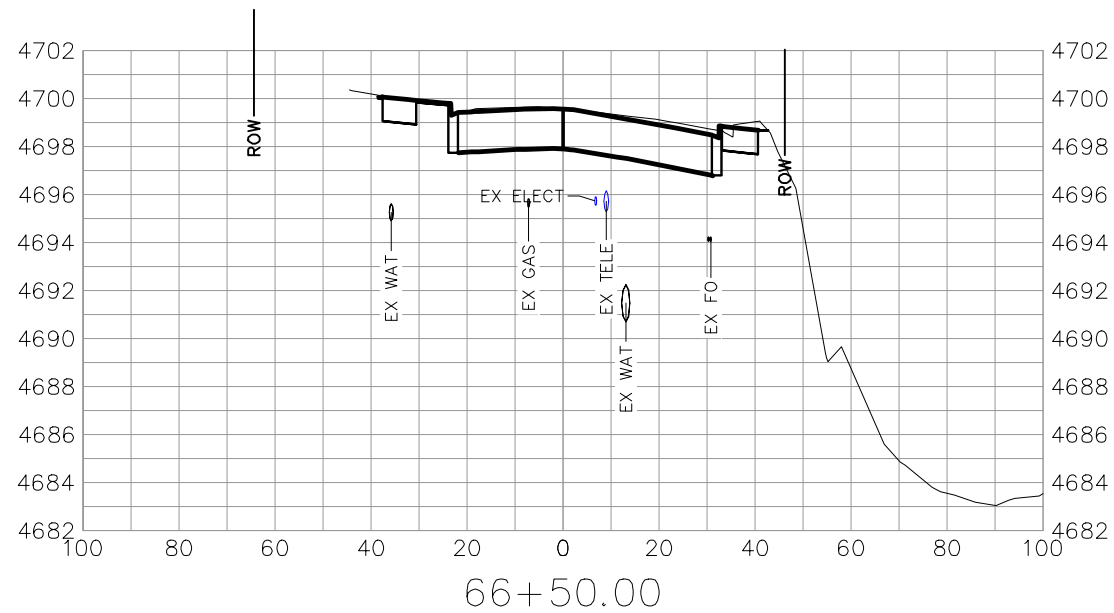
As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT CROSS SECTION - 3 STA 63+50 TO 65+00	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: CROSS SECTION	Subset Sheets: X of X

Project No./Code
SHE M555-034
23652
Sheet Number 82



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Print Date: 6/18/2024 7:36:58 AM
File Name: CROSS SECTION.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
<b>CITY OF Grand Junction</b> COLORADO
333 WEST AVE, BLDG C Grand Junction, CO, 81501 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

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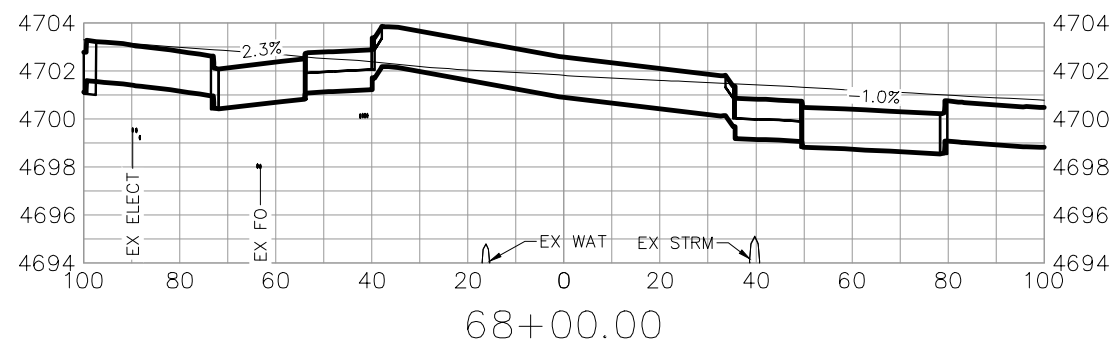
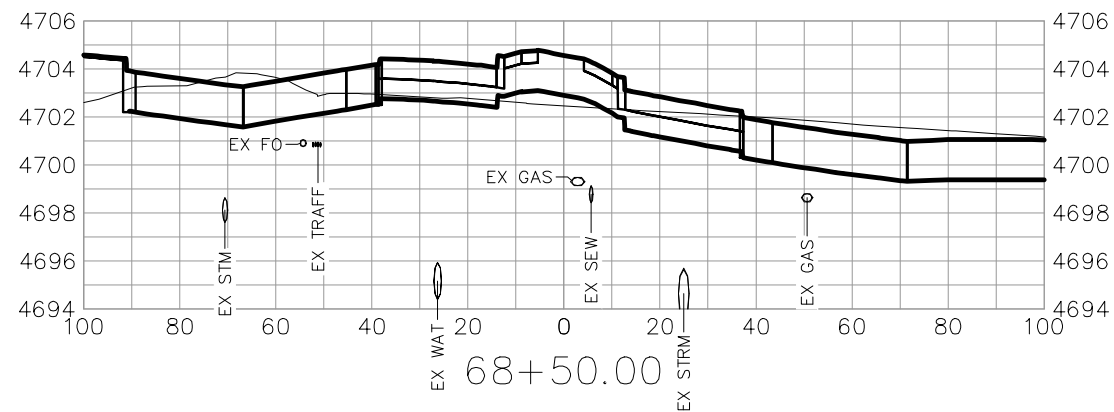
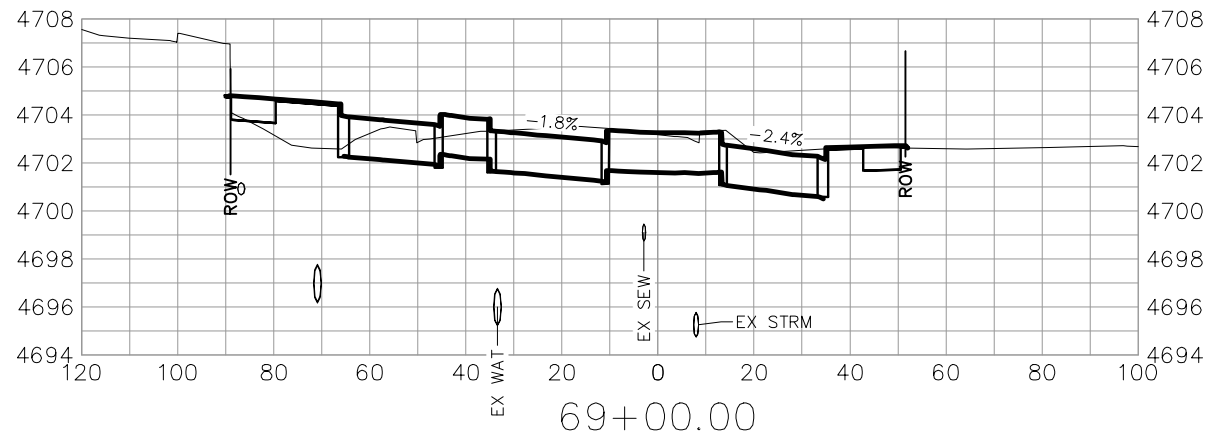
Region 3      KC

As Constructed
No Revisions:
Revised:
Void:

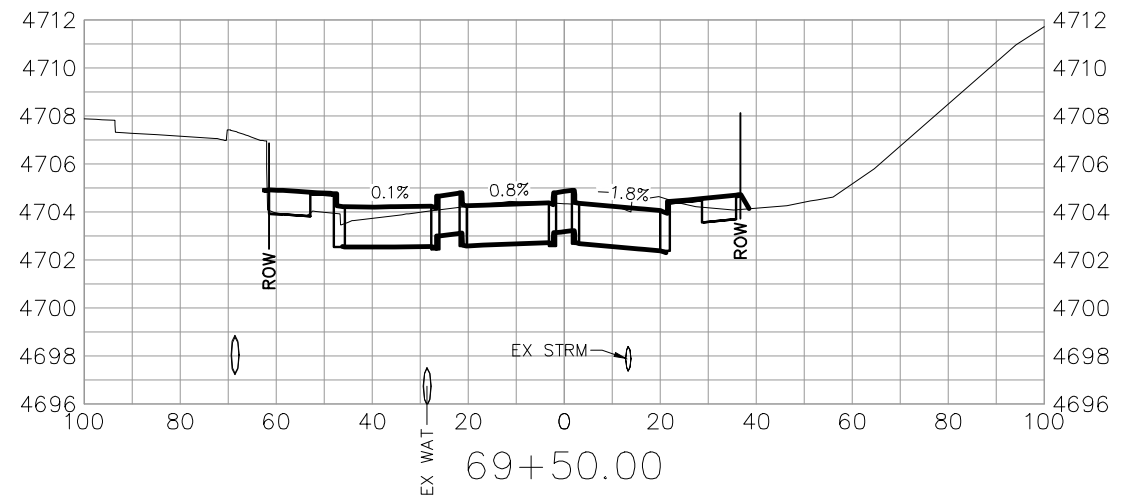
HORIZON DR AND G RD ROUNDABOUT			
CROSS SECTION - 4			
STA 66+32 TO 67+50			
Designer:	JCS	Structure Numbers	
Detailer:	JCS		
Sheet Subset:	CROSS SECTION	Subset Sheets:	X of X

Project No./Code
SHE M555-034
23652
Sheet Number 83

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SEE STAKING PLAN FOR PROPOSED GRADES**



Print Date: 6/18/2024 7:37:01 AM  
 File Name: CROSS SECTION.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF  
**CITY OF GRAND JUNCTION**  
 COLORADO  
 333 WEST AVE, BLDG C  
 Grand Junction, CO, 81501  
 Phone: 970-244-1554

Sheet Revisions		
Date:	Comments	Init.

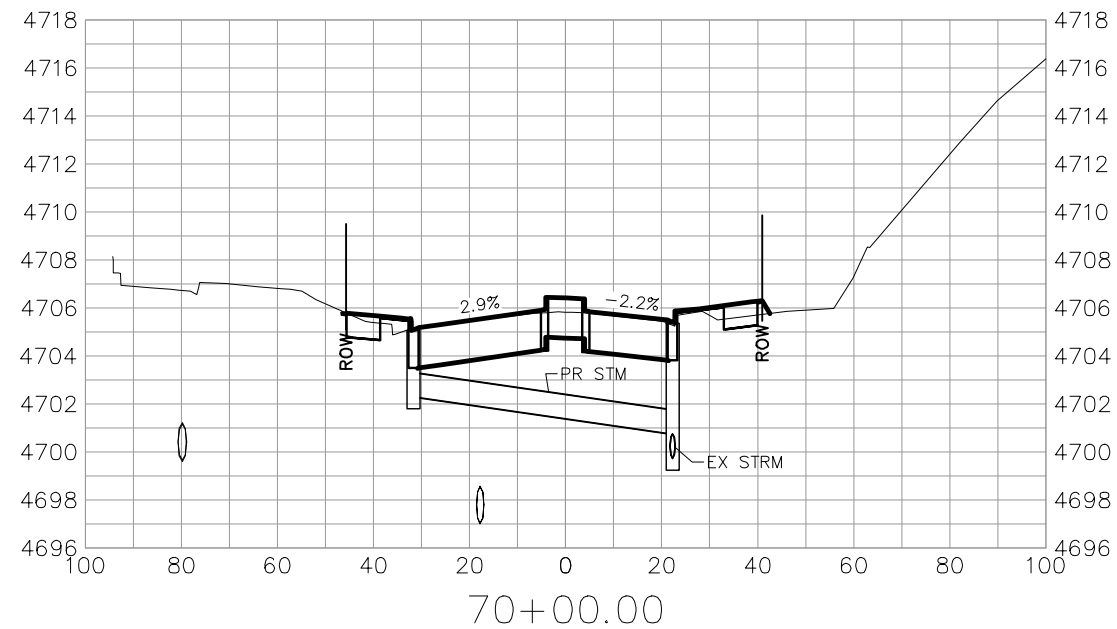
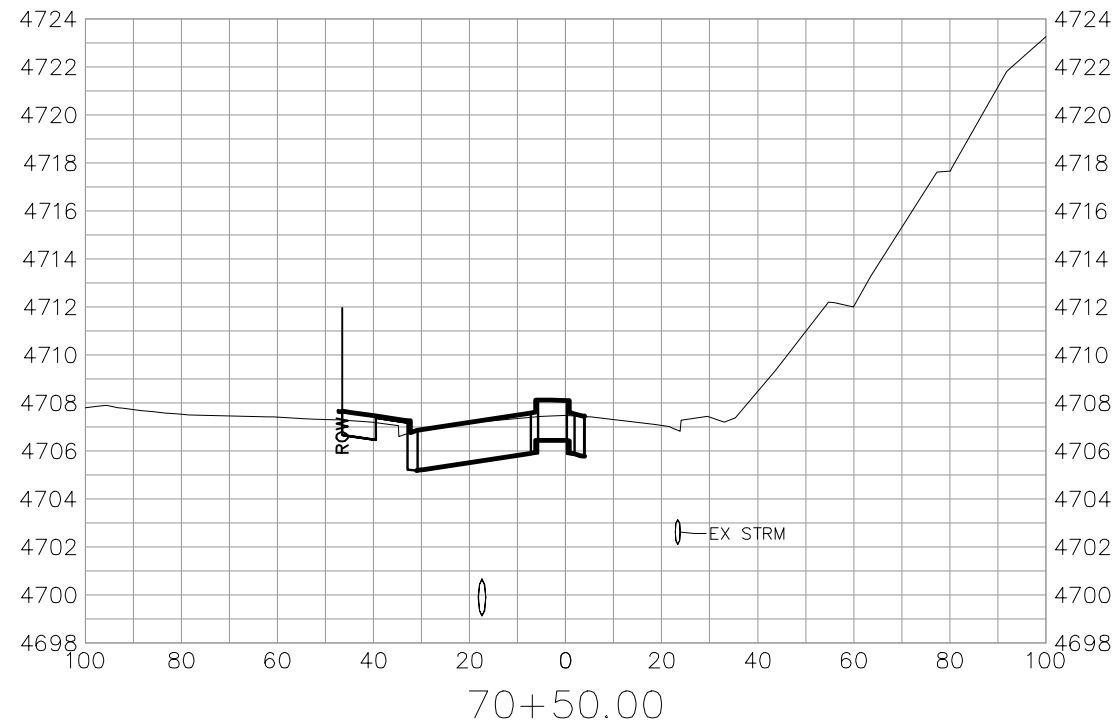
Colorado Department of Transportation  
 606 South 9th Street  
 Grand Junction, CO, 81501  
 Phone: 970-683-6351 FAX: 970-683-6369  
**Region 3** KC

As Constructed  
 No Revisions:  
 Revised:  
 Void:


HORIZON DR AND G RD ROUNDABOUT  
 CROSS SECTION - 5  
 STA 68+00 TO 69+50  
 Designer: JCS  
 Detailer: JCS  
 Sheet Subset: CROSS SECTION  
 Structure Numbers  
 Subset Sheets: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 84

N:\EngProj\F210309 (Horizon Dr and G Rd Roundabout)\60CAD\0DESIGN\CROSS SECTION.dwg, 6/18/2024 7:37:03 AM




**'FOR INFORMATION ONLY'**  
**SEE STAKING PLAN FOR PROPOSED GRADES**

Print Date: 6/18/2024 7:37:04 AM
File Name: CROSS SECTION.dwg
Horiz. Scale: AS SHOWN      Vert. Scale: NA
Unit Information: City of GJ      Unit Leader Initials: LF
 <b>Grand Junction</b> <small>CITY OF COLORADO</small>
<small>333 WEST AVE, BLDG C  Grand Junction, CO, 81501  Phone: 970-244-1554</small>

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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Region 3      KC

As Constructed
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT	
CROSS SECTION - 6	
STA 70+00 TO 70+50	
Designer: JCS	Structure Numbers
Detailer: JCS	
Sheet Subset: CROSS SECTION	Subset Sheets: X of X


Project No./Code
SHE M555-034
23652
Sheet Number 85

**SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL SIGNS**

SIGN CODE	LEGEND	DIMENSION W x H	PANEL SIZE			SPECIAL SF	AS CONST
			A EA	B EA	C EA		
G20-5P	WORK ZONE	36 x 24	8				
G20-10	XYZ/CONSTRUCTION/THANKS YOU/555-555-5555	48 x 48		4			
G20-11	ROAD WORK/MMM YY-YYY-YYY/FOR INFORMATION	48 x 48		4			
M4-9a	PEDESTRIAN AND BICYCLE DETOUR W/ ARROW	30 x 24	6				
R2-1(30)	SPEED LIMIT (30)	36 x 48		4			
R2-1 (35)	SPEED LIMIT (35)	36 x 48		4			
R2-1 (40)	SPEED LIMIT (40)	36 x 48		3			
R2-1 (45)	SPEED LIMIT (45)	36 x 48		3			
R2-6p	FINES DOUBLE	36 x 24	10				
R9-8	PEDESTRIAN CROSSWALK	36 x 18	4				
R9-9	SIDEWALK CLOSED	24 x 12	4				
R9-11(L)	SIDEWALK CLOSED AHEAD CROSS HERE LEFT ARROW	24 x 18	4				
R9-11 (R )	SIDEWALK CLOSED AHEAD CROSS HERE RIGHT ARROW	24 x 18	4				
R11-2	ROAD CLOSED	48 x 30		12			
R52-6a	BEGIN/FINES/DOUBLE/IN WORK/ZONE	48 x 60			4		
R52-6b	END/FINES/DOUBLE/IN WORK/ZONE	48 x 60			4		
W1-4(L)	REVERSE CURVE (LEFT)	36 x 36	4				
W1-4(R)	REVERSE CURVE (RIGHT)	36 x 36	4				
W1-6L	LARGE ARROW LEFT	48 x 24	2				
W1-6R	LARGE ARROW RIGHT	48 x 24	2				
W3-4	BE PREPARED TO STOP	36 x 36	2				
W4-2L	LEFT LANE ENDS	36 x 36	4				
W4-2R	RIGHT LANE ENDS	36 x 36	4				
W8-1	BUMP	36 x 36	6				
W8-11	UNEVEN LANES	36 x 36	2				
W8-17	SHOULDER DROP OFF (SYMBOL)	36 x 36	2				
W20-1 (AHEAD)	ROAD/WORK/AHEAD	36 x 36	20				
W20-4	ONE LANE ROAD AHEAD	36 x 36	2				
W20-7a	FLAGGER SYMBOL	36 x 36	8				
W21-5	SHOULDER WORK	36 x 36	4				
W21-5a	SHOULDER CLOSED	36 x 36	2				
W24-1L	DOUBLE REVERSE CURVE (LEFT)	36 x 36	4				
W24-1R	DOUBLE REVERSE CURVE (RIGHT)	36 x 36	4				
SPECIAL	BUSINESS ACCESS W/ARROW	48 x 36				48	
SPECIAL	BUSINESSES OPEN CURING CONSTRUCTION	48 x 48				64	
CONTINGENCY	CONTINGENCY SIGN PANELS	VARY	10	10			
<b>PROJECT TOTALS</b>			<b>126</b>	<b>44</b>	<b>8</b>	<b>112</b>	

Ref. No.	Item	Quantity	Unit
621-00450	Detour Pavement	1700.00	SY
630-00000	Flagging	1400.00	HOURL
630-00007	Traffic Control Inspection	30.00	DAYS
630-00012	Traffic Control Management	80.00	DAYS
630-80336	Barricade (Type 3 M-B) (Temporary)	12.00	EA
630-80341	Construction Traffic Sign (Panel Size A)	126.00	EA
630-80342	Construction Traffic Sign (Panel Size B)	44.00	EA
630-80343	Construction Traffic Sign (Panel Size C)	8.00	EA
630-80344	Construction Sign Panel (Special)	112.00	SF
630-80355	Portable Message Sign Panel	4.00	EA
630-80357	Advance Warning Flashing or Sequencing Arrow Panel (B Type)	5.00	EA
630-80360	Drum Channelizing Device	140.00	EA
630-80364	Drum Channelizing Device (With Light) (Steady)	20.00	EA
630-80370	Barrier (Temporary)	200.00	LF
630-80380	Traffic Cone	20.00	EA
630-80390	Channelizing Device (Special)	90.00	EA
630-85010	Impact Attenuator (Temporary)	2.00	EA
630-86810	Traffic Signal (Temporary)	1.00	EA
632-00000	Night Work Lighting	1.00	LS

Print Date: 6/18/2024 7:37:05 AM  
 File Name: TABULATION OF CONSTRUCTION TRAFFIC CONTROL DEVICES.dwg  
 Horiz. Scale: AS SHOWN Vert. Scale: NA  
 Unit Information: City of GJ Unit Leader Initials: LF



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Region 3 KC

As Constructed	HORIZON DR AND G RD ROUNDABOUT TABULATION OF CONSTRUCTION TRAFFIC CONTROL DEVICES - 1	
	No Revisions:	
	Revised:	Designer: JCS
	Void:	Detailer: JCS
Sheet Subset: TABULATION OF CONSTRUCTION TRAFFIC CONTROL DEVICES		Structure Numbers: X of X

Project No./Code  
 SHE M555-034  
 23652  
 Sheet Number 86