

EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

GALLOWAY
RESPONSE

MERIDIAN STORAGE, LLC

MERIDIAN STORAGE

FALCON RANCHETTES FILING NO. 2, NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 1
TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH P.M., COUNTY OF EL PASO
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE

CONSTRUCTION DRAWINGS

SF-23-XXX

ADDED
FILING
NUMBERS

Add PCD File
#VR239

PROJECT CONTACTS

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FIRE

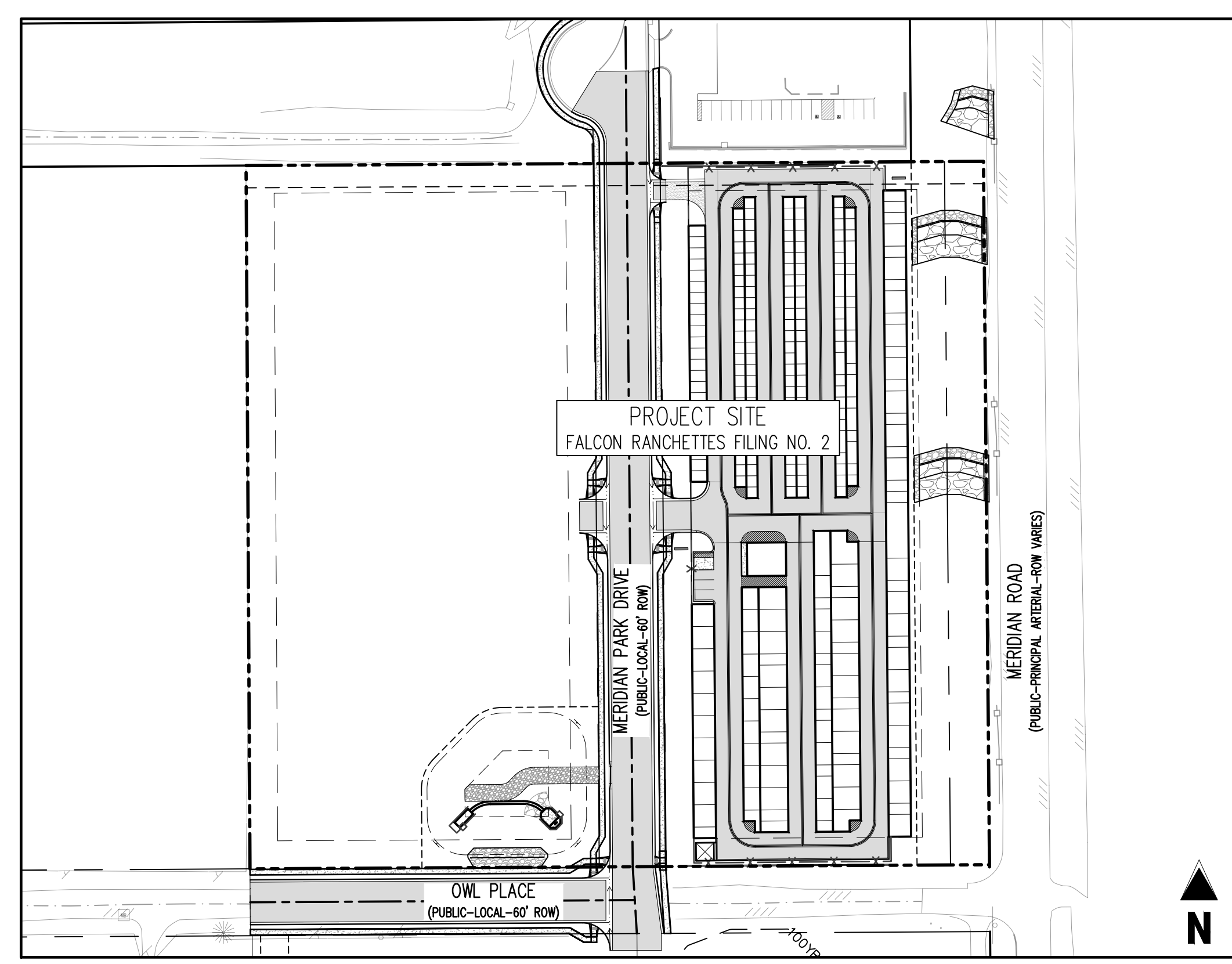
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LIST OF ABBREVIATIONS

SHT - SHEET
A - DEFLECTION ANGLE
L - LENGTH
R - RADIUS
CB - CHORD BEARING
C - CHORD LENGTH
N - NORTH/NORTHING
W - WEST
E - EAST/EASTING
S - SOUTH
DET - DETAIL
EX - EXISTING
W/ - WITH
PC - POINT OF CURVATURE/PORTLAND CEMENT
WWF - WELDED WIRE FABRIC
VERT - VERTICAL
OC - ON CENTER
FDC - FIRE DEPARTMENT CONNECTION
CT - COURT
DR - DRIVE
TYP - TYPICAL
REC - RECEPTION NUMBER
Ø, DIA - DIAMETER
PT - POINT OF TANGENCY
MIN - MINIMUM
MAX - MAXIMUM
HDPE - HIGH DENSITY POLYETHYLENE



VICINITY MAP
SCALE: 1"=1000'



SITE MAP
SCALE: 1"=100'

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LEGAL DESCRIPTION

A PARCEL OF LAND IN THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST, OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
LOTS 1 & 2, FALCON RANCHETTES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK V-2, PAGE 15, OF THE RECORDS OF EL PASO COUNTY, COLORADO.

CONTAINING 8.604 ACRES, MORE OR LESS.

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONS PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH EOM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JOSHUA PALMER, P.E.
COUNTY ENGINEER / EOM ADMINISTRATOR
DATE _____

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

MIKE D. TEXER
DATE _____

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

BRADY A. SHYROCK, COLORADO P.E. NO. 0038164
DATE _____

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
STATE OF COLORADO
EL PASO COUNTY, FALCON, CO 80931
ADDED FILING NUMBERS
SF-23-XXX
VR239

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

COVER SHEET

C0.0
Sheet 1 of 25

GENERAL CONSTRUCTION NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPLACED AT THE CONTRACTORS EXPENSE AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- ALL BACKFILL, SUB-BASE AND / OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEERS RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED.
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC EGM APPENDIX K - 1.2C.
- ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" IN THIS AREA.
- ALL CULVERT AND STORM PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HOPE), OR REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNERS GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC EGM SECTION 3.32 - CULVERTS.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED FOR ROADS SHALL BE PER DESIGN REPORT BY OWNERS GEOTECHNICAL ENGINEER. OWNERS GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
- TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH WOODMAN HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- ALL POTABLE WATER MAINS SHALL BE ANWIA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND / OR RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- MAXIMUM DEFLECTION OF 8" OR 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25' OR 22.5' BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEWER AND SANITARY. SEWER MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
- SANITARY SEWER PIPE AND FITTINGS: PVC 4" - 8" ASTM D3034, TYPE PSM, SDR 35; PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTIONS, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SANITARY SEWER MAIN)

STANDARD NOTES FOR EPC CONSTRUCTION PLAN

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER EGM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

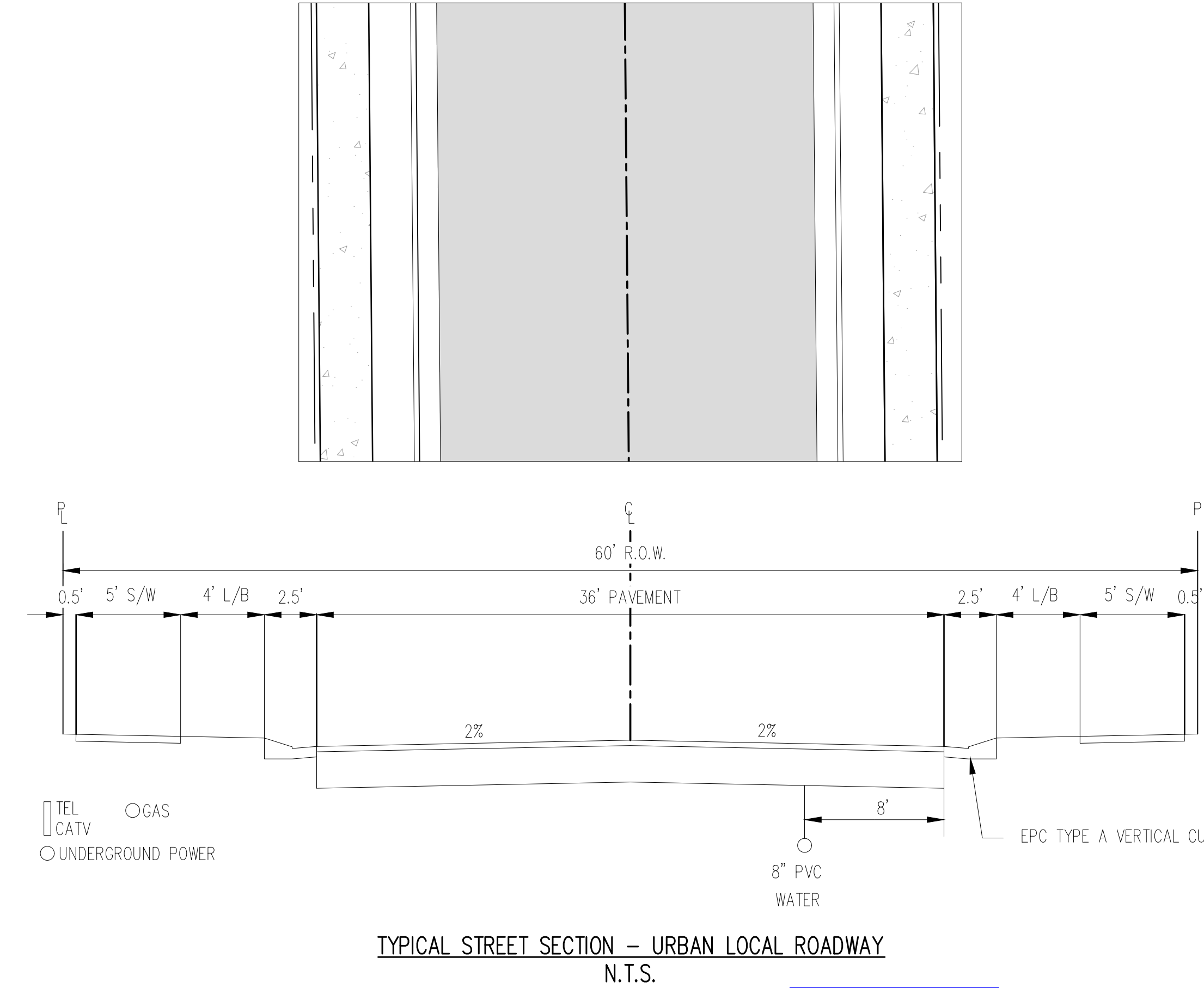
SIGNING AND STRIPING NOTES

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75'X 1.75' SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8" LONG PER CDOT S-627-1.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

Update Signing and Striping Notes

ADDED SIGNING STRIPING NOTES

Signing and Striping Notes:
 1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
 2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
 3. Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development.
 4. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County and MUTCD standards.
 5. Street name and regulatory stop signs shall be on the same post at intersections.
 6. All removed signs shall be disposed of in a proper manner by the contractor.
 7. All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 35 mph or higher shall have 8" upper-lower case lettering on 12" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs". Signal pole mounted and overhead street name signs shall be per MUTCD size standards.
 8. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
 9. All local residential street signs shall be mounted on a 1.75' x 1.75' square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
 10. All signs shall be single sheet aluminum with 0.100" minimum thickness.
 11. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Stop bars shall be 24" wide and a minimum of 9' long.
 12. Word and symbol markings shall be the narrow type.
 13. All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
 14. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
 15. The contractor shall obtain a work in the right of way permit from the El Paso County Department of Public Works (DPW) prior to any signage or striping work within an existing El Paso County roadway.



TYPICAL STREET SECTION - URBAN LOCAL ROADWAY
N.T.S.

Add design and posted speed note 25/25mph

ADDED DESIGN AND POSTED SPEED LIMITS

STREET NAMES

- MERIDIAN PARK DRIVE
- OWL PLACE

Galloway
 1155 Kelly Johnson Blvd., Suite 305
 Colorado Springs, CO 80920
 719.900.7220
 GallowayUS.com

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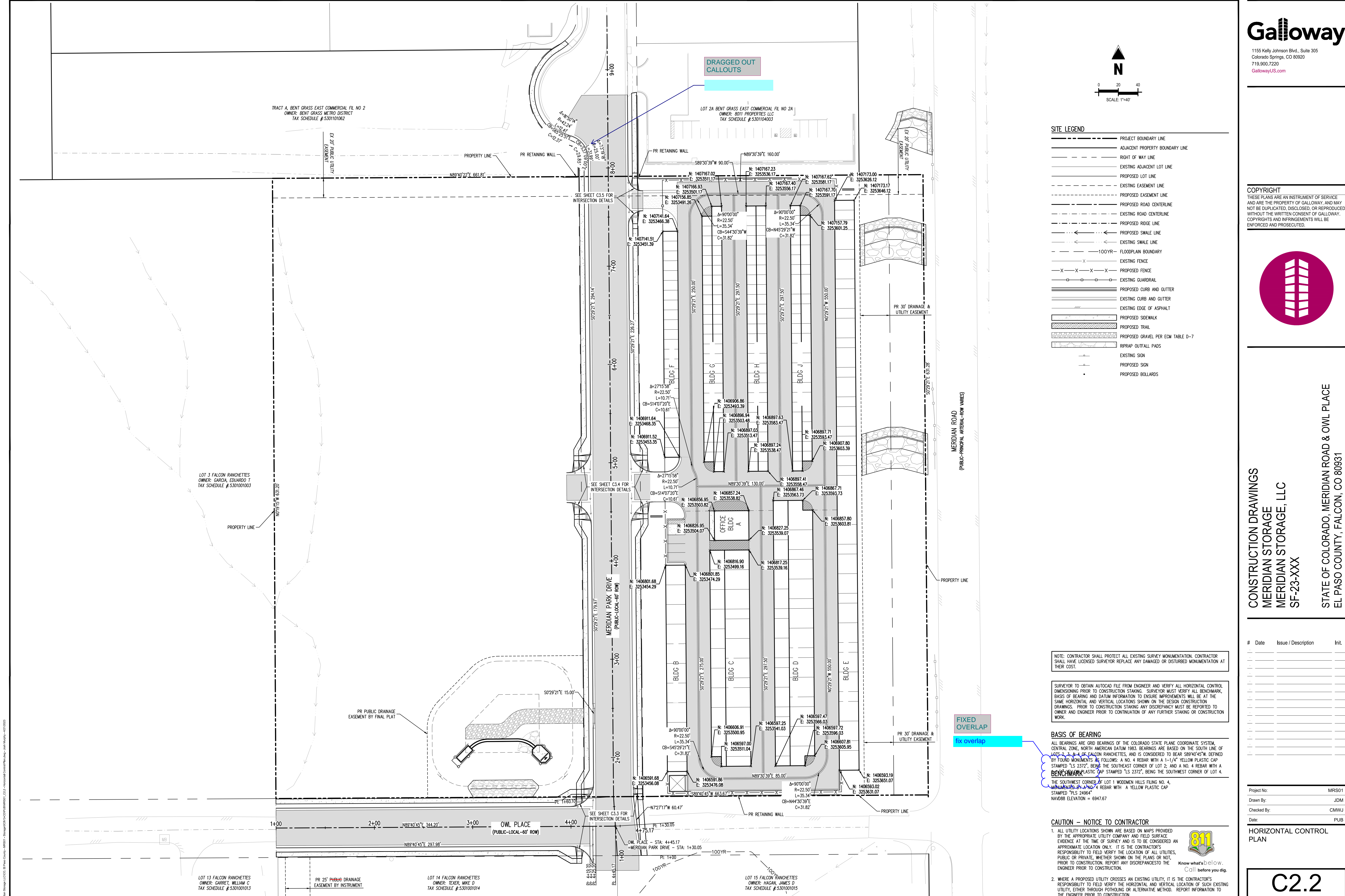


CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX
 STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

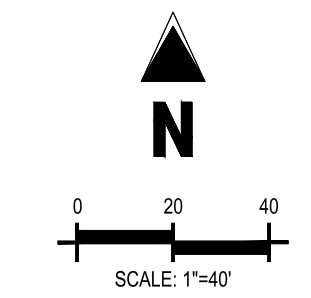
#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

NOTES



DRAGGED OUT
CALLOUTS



SITE LEGEND

- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARDRAIL
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EDM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

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CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

BASIS OF BEARING
 ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2, AND A NO. 4 REBAR WITH A BENCHMARK YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.
 THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964", NAVD88 ELEVATION = 6947.67

CAUTION - NOTICE TO CONTRACTOR
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2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-Holing OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

FIXED
OVERLAP
fix overlap

#	Date	Issue / Description	Init.

HORIZONTAL CONTROL PLAN

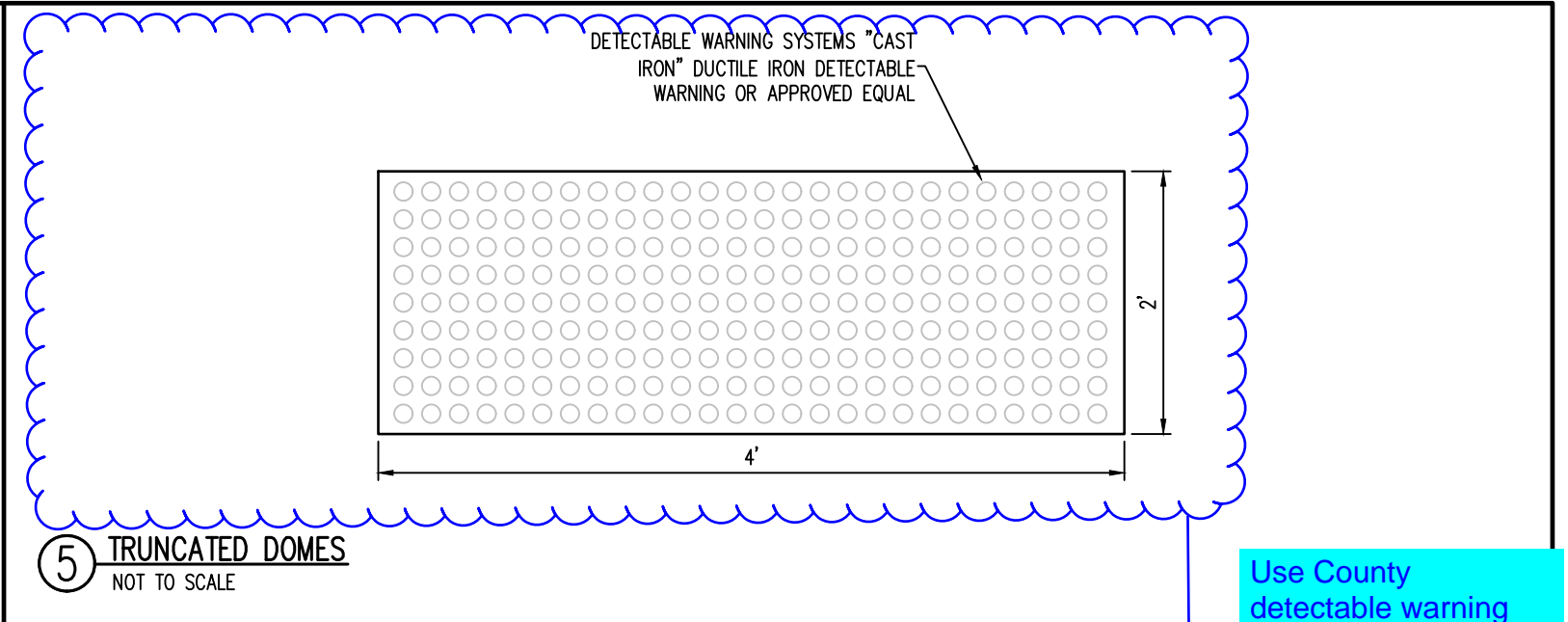
Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB



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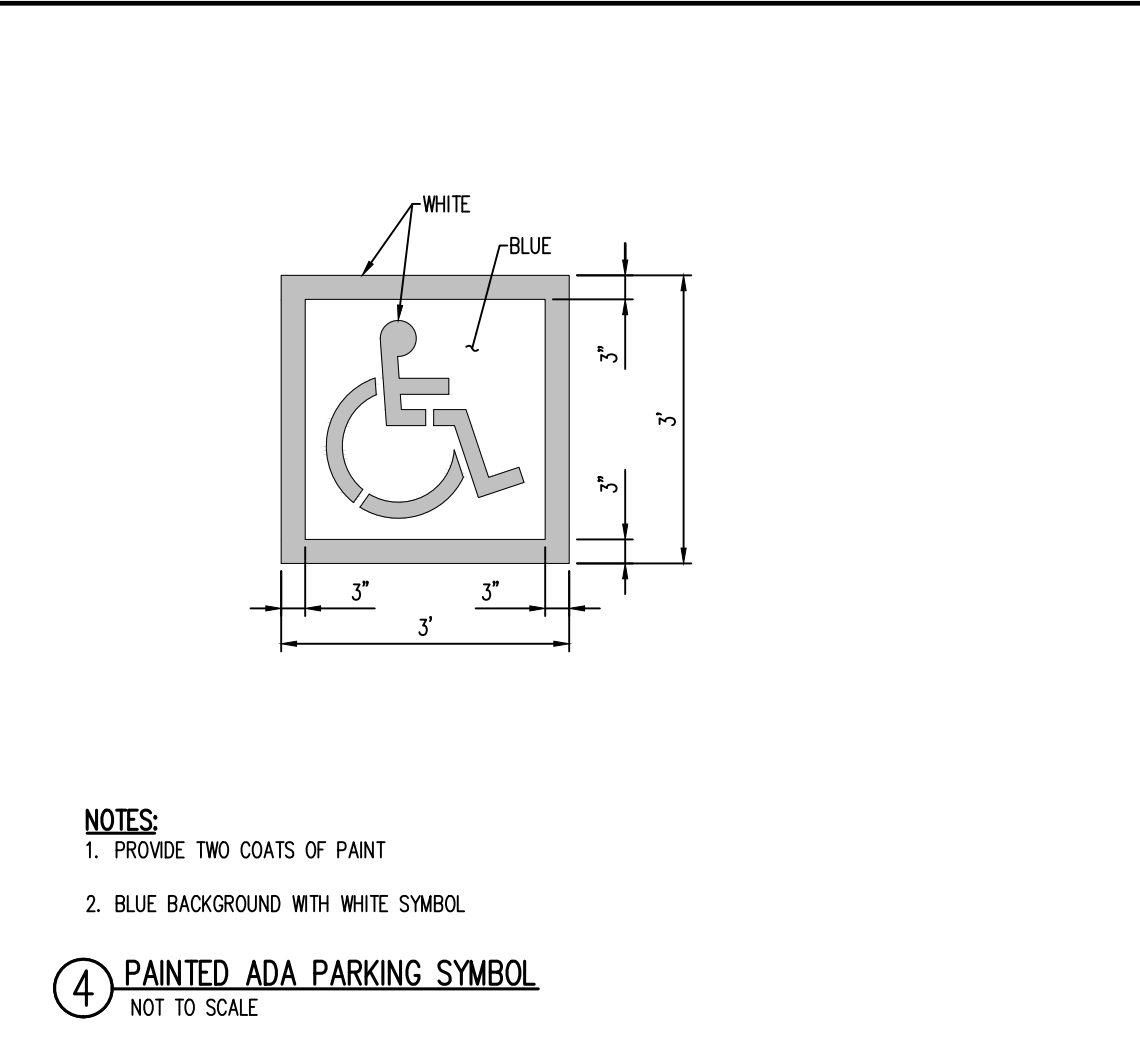
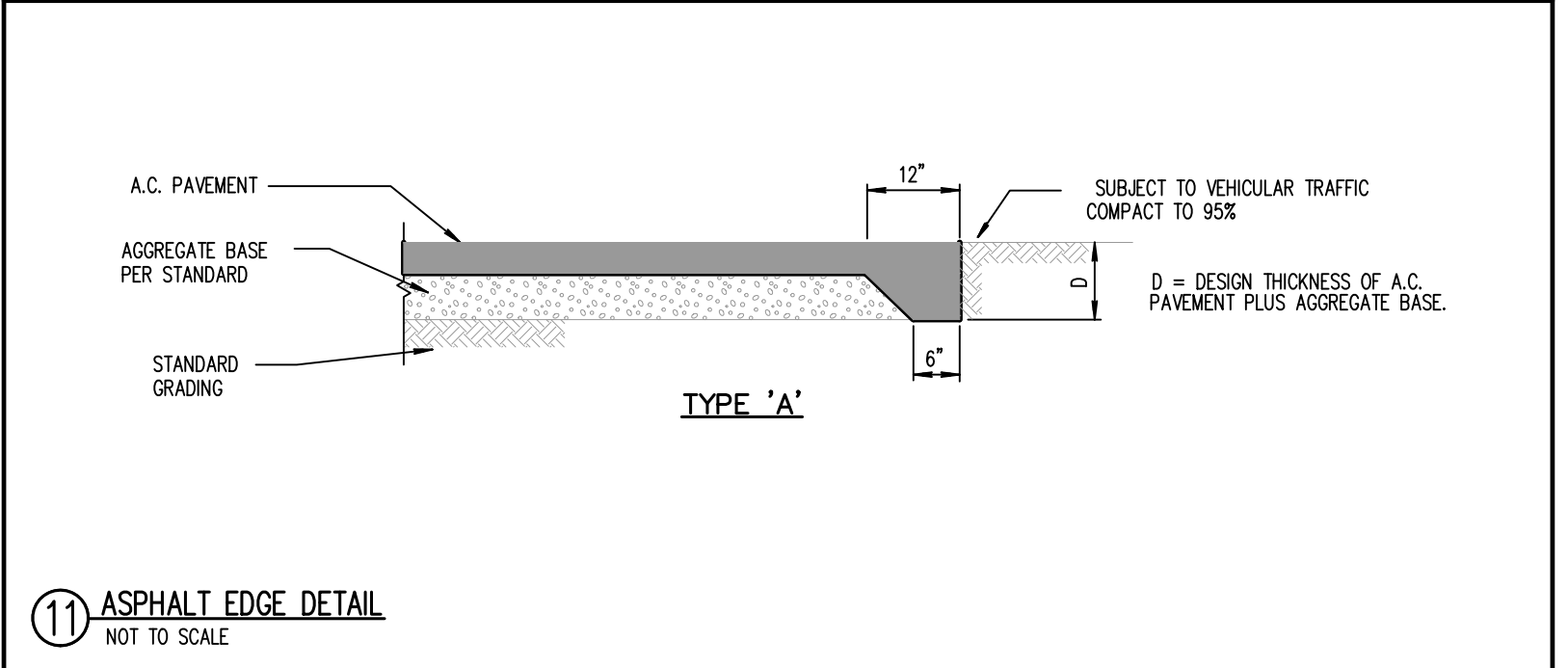
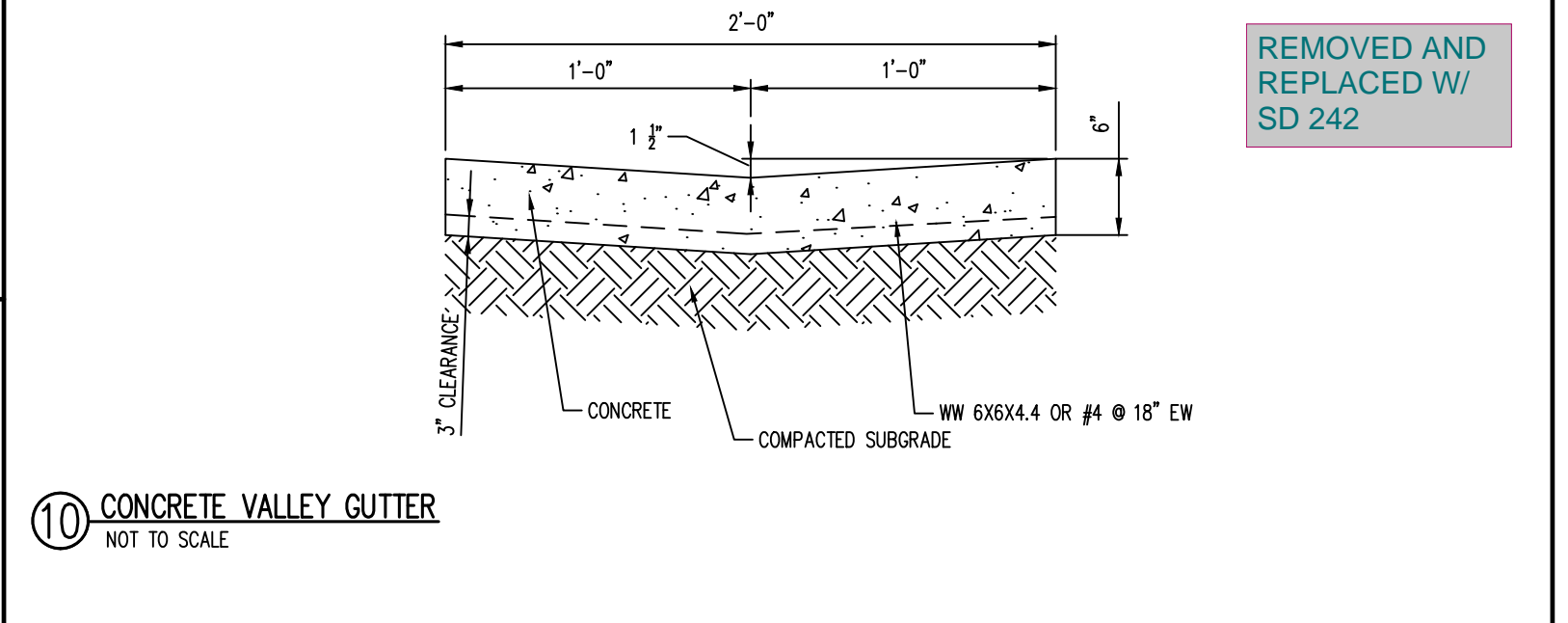
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

SITE DETAILS

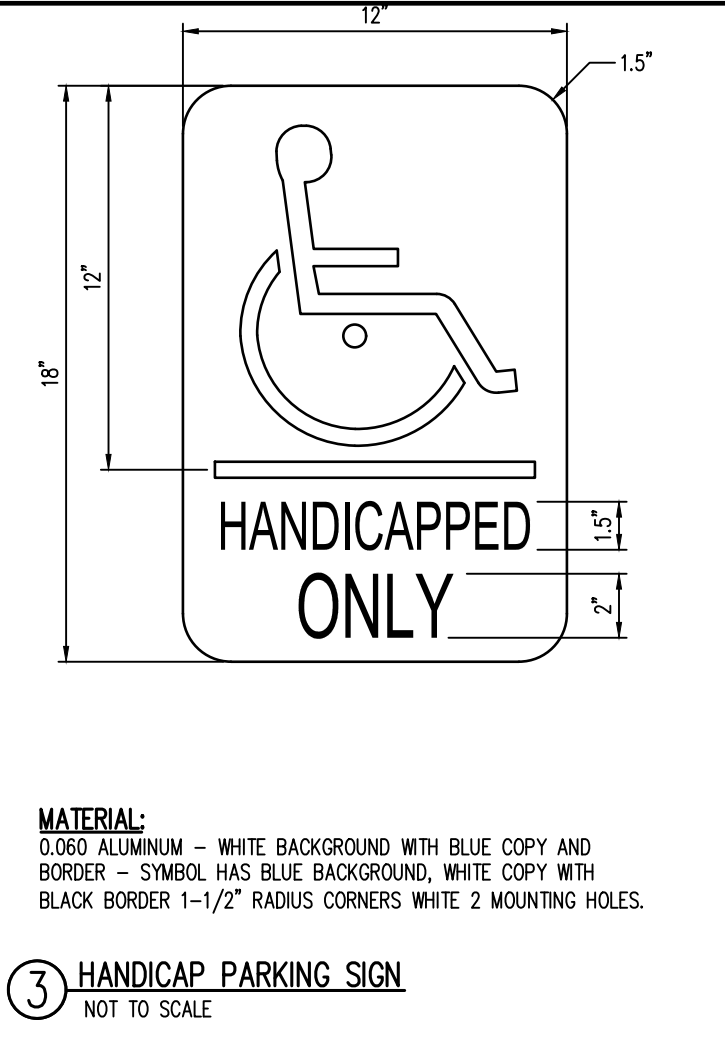


Use County detectable warning detail SD_2-42 from ECM Appendix F

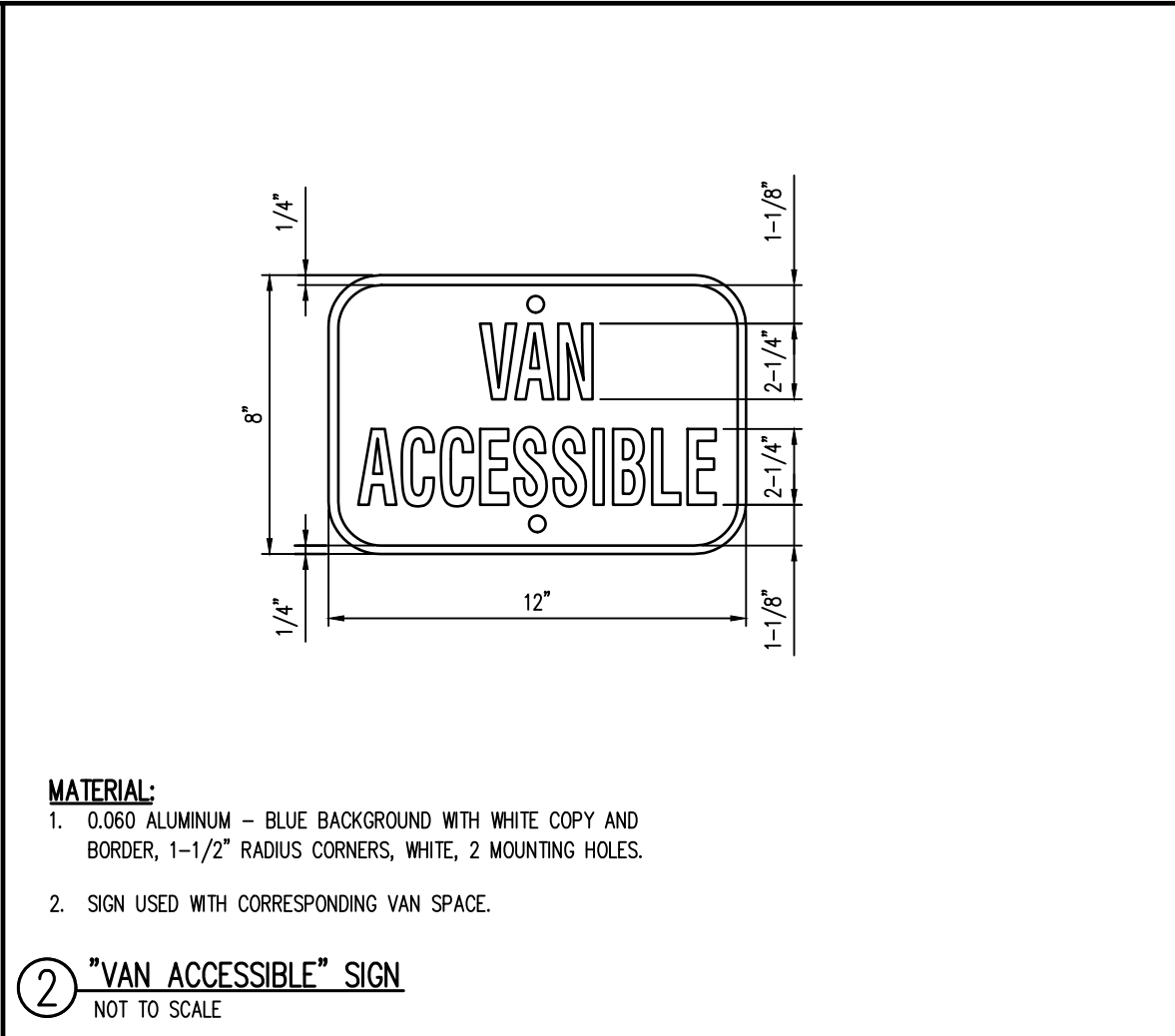
REMOVED AND REPLACED W/ SD 242



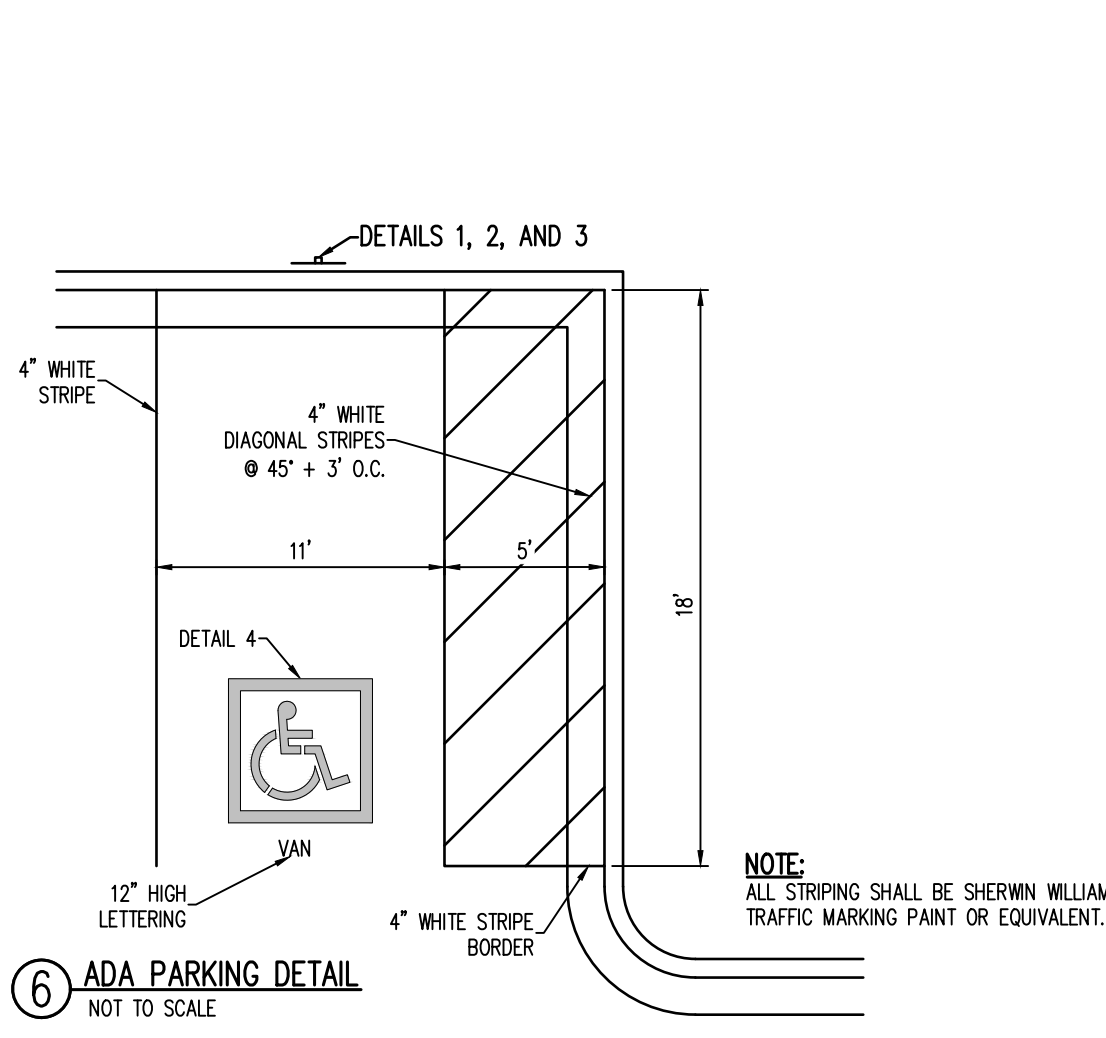
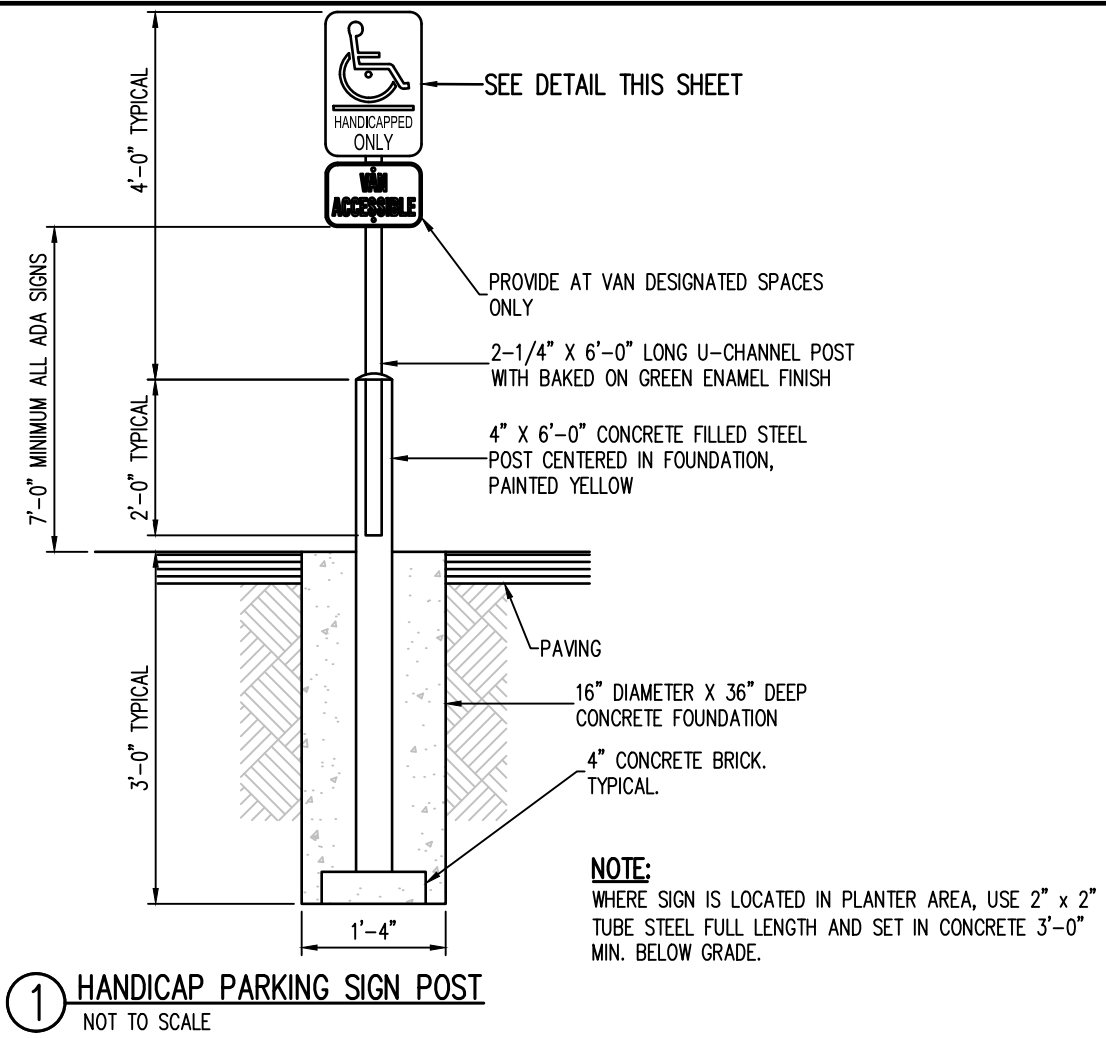
NOTES:
1. PROVIDE TWO COATS OF PAINT
2. BLUE BACKGROUND WITH WHITE SYMBOL



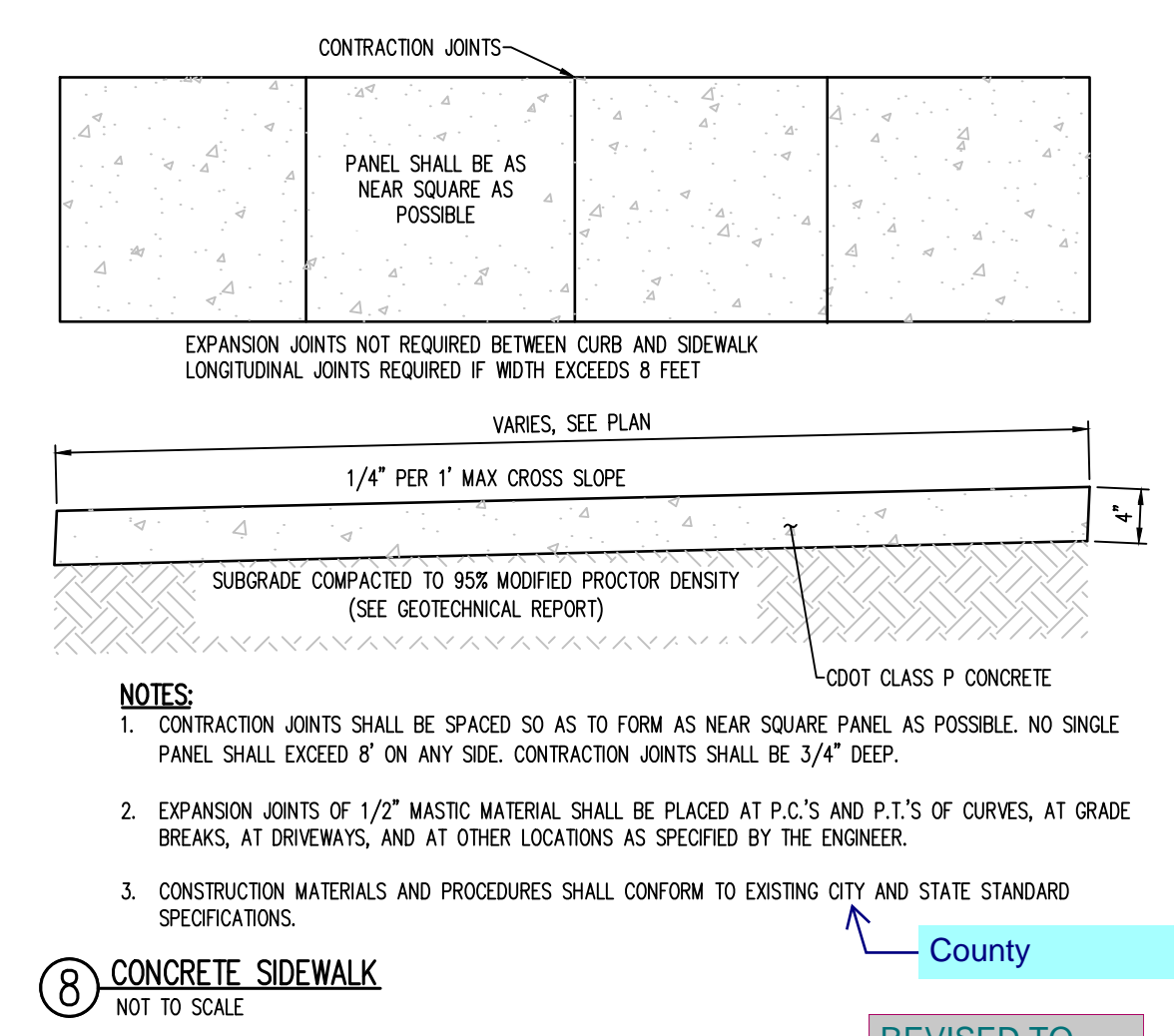
MATERIAL:
GLOSS ALUMINUM - WHITE BACKGROUND WITH BLUE COPY AND BORDER - SYMBOL HAS BLUE BACKGROUND, WHITE COPY WITH BLACK BORDER 1-1/2" RADIUS CORNERS WHITE 2 MOUNTING HOLES.



MATERIAL:
1. 0.060 ALUMINUM - BLUE BACKGROUND WITH WHITE COPY AND BORDER, 1-1/2" RADIUS CORNERS, WHITE, 2 MOUNTING HOLES.
2. SIGN USED WITH CORRESPONDING VAN SPACE.

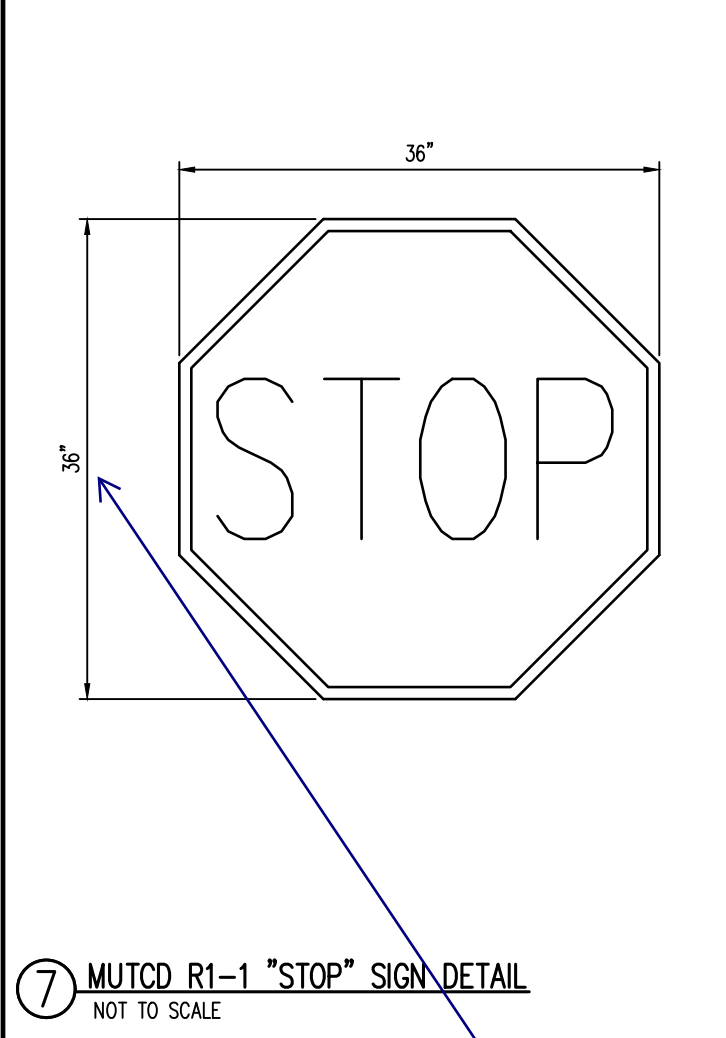
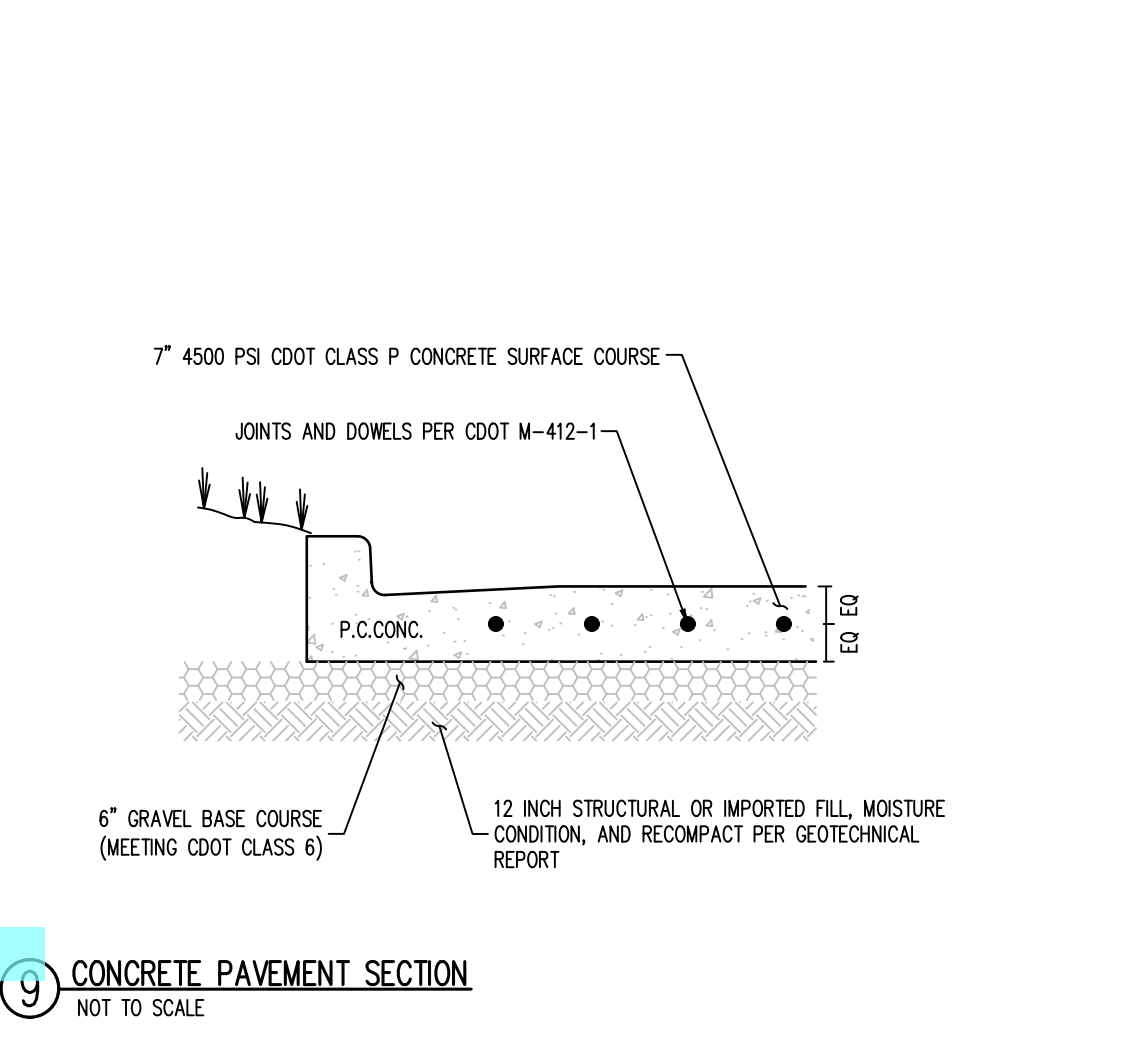


NOTE:
ALL STRIPING SHALL BE SHERWIN WILLIAMS TRAFFIC MARKING PAINT OR EQUIVALENT.



NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED SO AS TO FORM AS NEAR SQUARE PANEL AS POSSIBLE. NO SINGLE PANEL SHALL EXCEED 8' ON ANY SIDE. CONTRACTION JOINTS SHALL BE 3/4" DEEP.
2. EXPANSION JOINTS OF 1/2" MASTIC MATERIAL SHALL BE PLACED AT P.C.'S AND P.T.'S OF CURVES, AT GRADE BREAKS, AT DRIVEWAYS, AND AT OTHER LOCATIONS AS SPECIFIED BY THE ENGINEER.
3. CONSTRUCTION MATERIALS AND PROCEDURES SHALL CONFORM TO EXISTING CITY AND STATE STANDARD SPECIFICATIONS.

County
REVISED TO COUNTY



revise to 30"x30"
REVISED TO 30"x30"

SITE LEGEND

- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARDRAIL
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EOM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

UTILITY LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC LINE
- EXISTING FIBER OPTIC STRUCTURES
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRIC TRANSFORMER
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- EXISTING WATER METER
- PROPOSED WATER METER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE

NOTES

- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD_2-40 & SD_2-41)
 - (B) PROPOSED 6' CONCRETE CROSS PAN, SEE DETAIL (EPC SD_2-26)
- NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.
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PAVING LEGEND

- PROPOSED CONCRETE
- EXISTING CONCRETE
- PROPOSED ASPHALT PAVING

BASIS OF BEARING

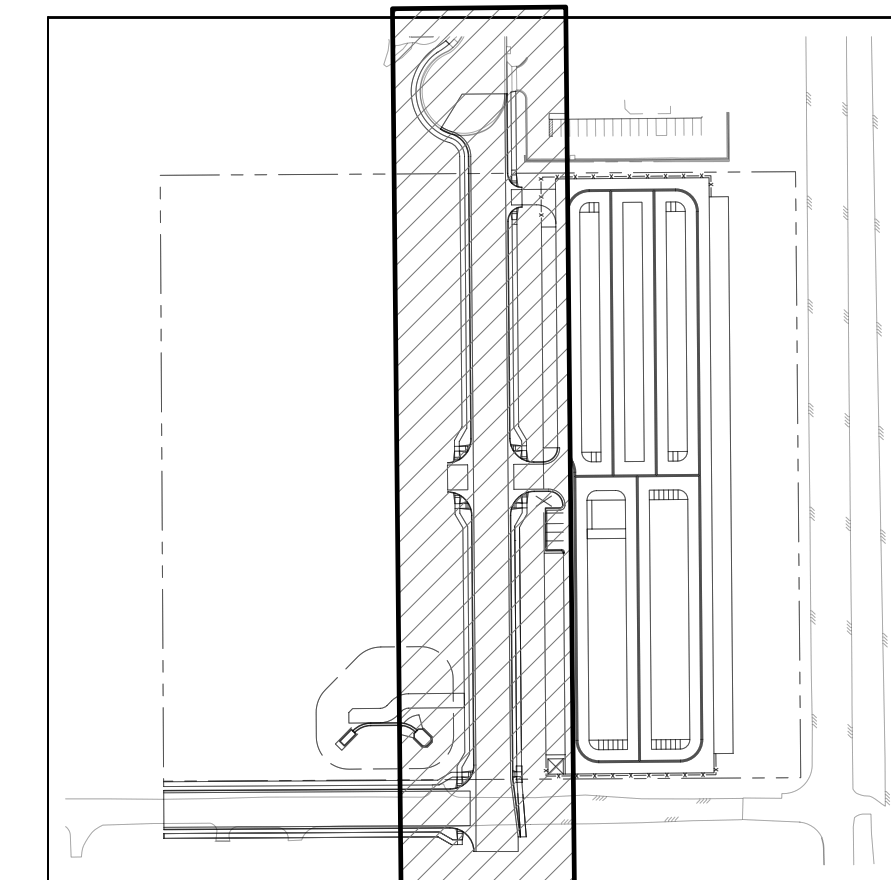
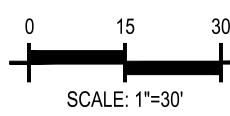
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BENCHMARK

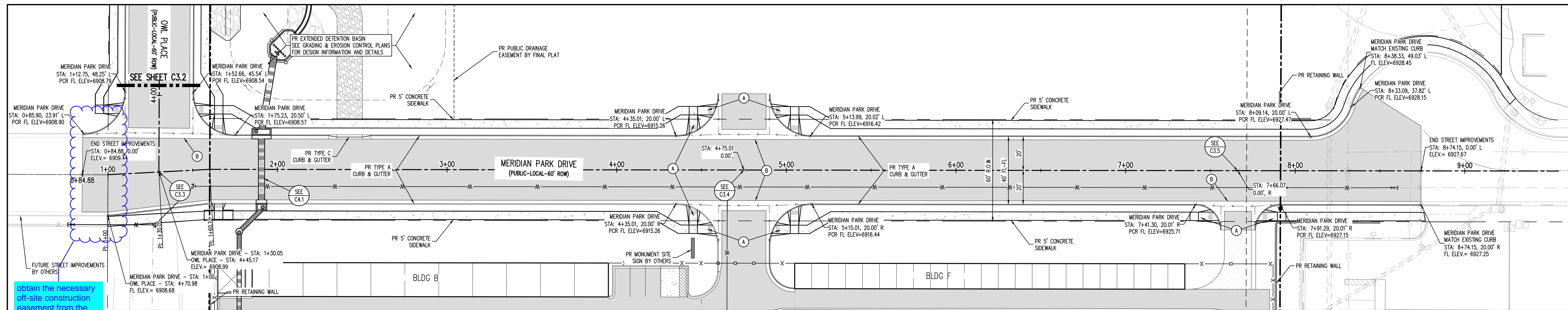
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 2486" NAVD88 ELEVATION = 6947.67

CAUTION - NOTICE TO CONTRACTOR

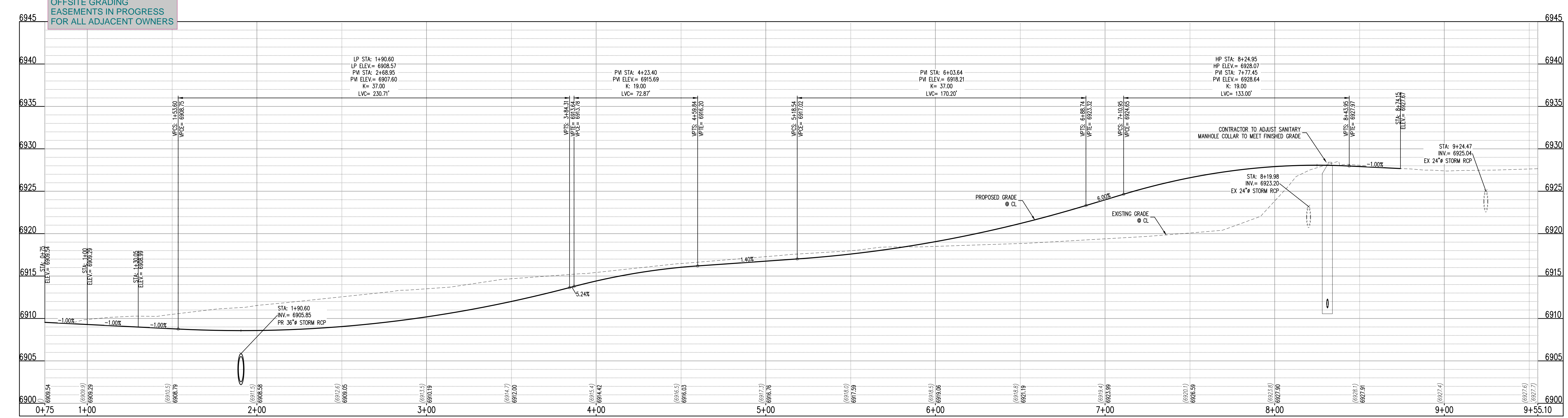
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KEYMAP
SCALE: 1"=200'



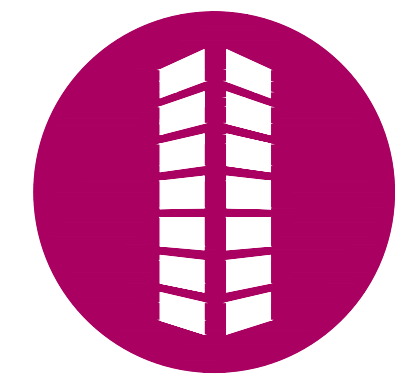
MERIDIAN PARK DRIVE - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
SCALE: 1"=30'



MERIDIAN DRIVE PARK (STA: 0+75 - 9+55.10)

SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'

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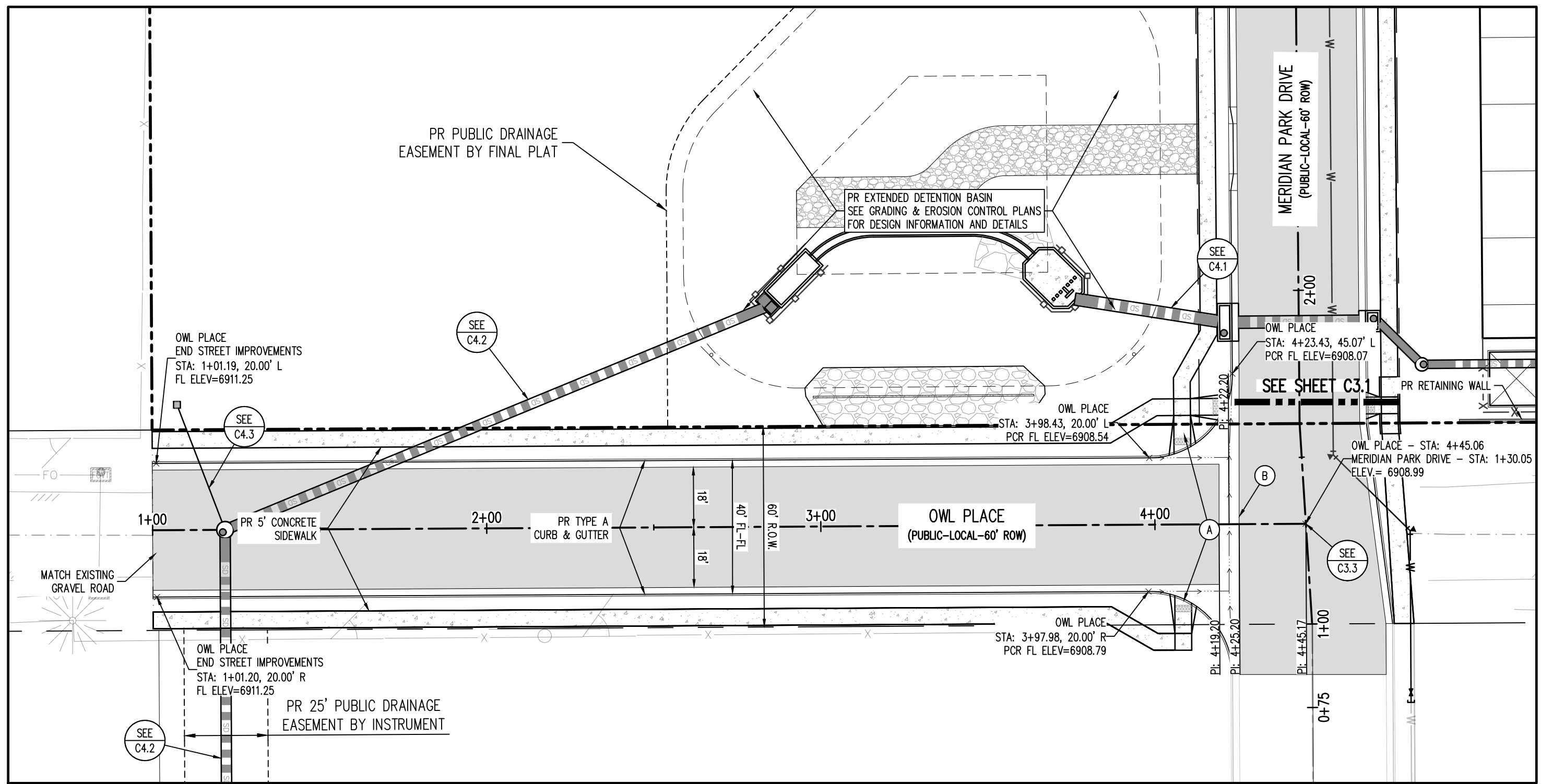


CONSTRUCTION DRAWINGS
MERCIDIAN STORAGE
MERCIDIAN STORAGE, LLC
SF-23-XXX

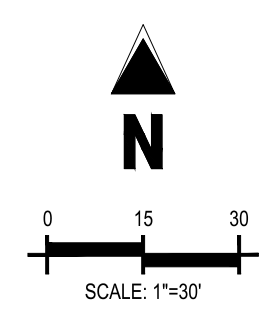
STATE OF COLORADO, MERCIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB
MERCIDIAN PARK DRIVE



**OWL PLACE - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)**
SCALE: 1"=30'



- UTILITY LEGEND**
- W — EXISTING WATER LINE
 - W — PROPOSED WATER LINE
 - SS — EXISTING SANITARY SEWER
 - SS — PROPOSED SANITARY SEWER
 - S — EXISTING STORM SEWER
 - S — PROPOSED STORM SEWER
 - G — EXISTING GAS LINE
 - G — PROPOSED GAS LINE
 - T — EXISTING UNDERGROUND TELEPHONE
 - T — EXISTING OVERHEAD ELECTRIC
 - FO — EXISTING FIBER OPTIC LINE
 - F — EXISTING FIBER OPTIC STRUCTURES
 - T — EXISTING TELEPHONE PEDESTAL
 - T — EXISTING ELECTRIC TRANSFORMER
 - P — EXISTING POWER POLE
 - S — EXISTING STREET LIGHT
 - S — PROPOSED STREET LIGHT
 - M — PROPOSED WATER METER
 - V — EXISTING WATER VALVE
 - V — PROPOSED WATER VALVE
 - F — EXISTING FIRE HYDRANT
 - F — PROPOSED FIRE HYDRANT
 - M — EXISTING STORM SEWER MANHOLE
 - M — PROPOSED STORM SEWER MANHOLE
 - M — EXISTING SANITARY SEWER MANHOLE
 - M — PROPOSED SANITARY SEWER MANHOLE

- SITE LEGEND**
- P — PROJECT BOUNDARY LINE
 - A — ADJACENT PROPERTY BOUNDARY LINE
 - R — RIGHT OF WAY LINE
 - L — EXISTING ADJACENT LOT LINE
 - L — PROPOSED LOT LINE
 - E — EXISTING EASEMENT LINE
 - E — PROPOSED EASEMENT LINE
 - C — PROPOSED ROAD CENTERLINE
 - C — EXISTING ROAD CENTERLINE
 - R — PROPOSED RIDGE LINE
 - S — PROPOSED SWALE LINE
 - S — EXISTING SWALE LINE
 - B — 100YR FLOODPLAIN BOUNDARY
 - F — EXISTING FENCE
 - F — PROPOSED FENCE
 - G — EXISTING GUARDRAIL
 - G — PROPOSED CURB AND GUTTER
 - G — EXISTING CURB AND GUTTER
 - A — EXISTING EDGE OF ASPHALT
 - S — PROPOSED SIDEWALK
 - S — PROPOSED TRAIL
 - G — PROPOSED GRAVEL PER EDM TABLE D-7
 - P — RIPRAP OUTFALL PADS
 - S — EXISTING SIGN
 - S — PROPOSED SIGN
 - B — PROPOSED BOLLARDS

- PAVING LEGEND**
- P — PROPOSED CONCRETE
 - E — EXISTING CONCRETE
 - A — PROPOSED ASPHALT PAVING

- NOTES**
- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD_2-40 & SD_2-41)
 - (B) PROPOSED 6" CONCRETE CROSS PAN, SEE DETAIL (EPC SD_2-26)

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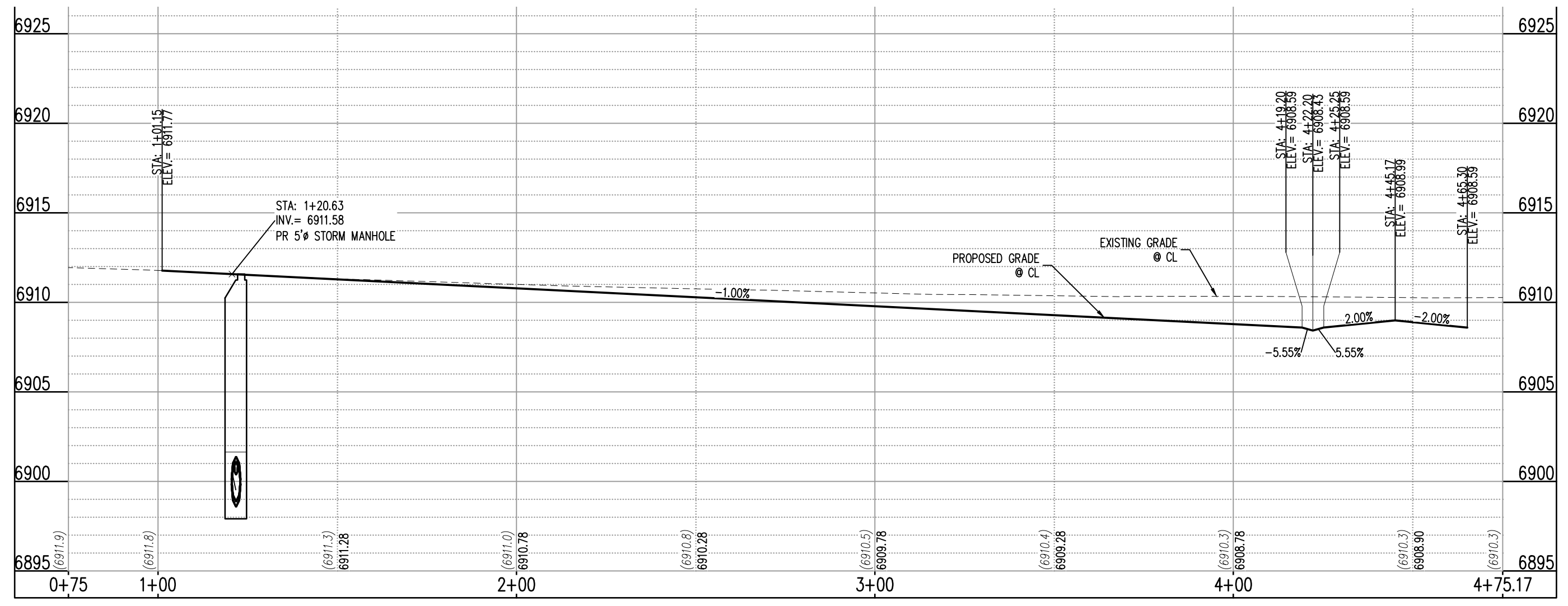
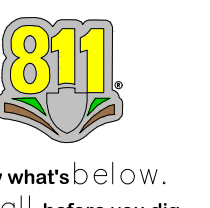
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BENCHMARK
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "7LS 24964"
NAVD88 ELEVATION = 6947.67

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OWL PLACE (STA: 0+75 - 4+75.17)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'

#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
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Date:	PUB

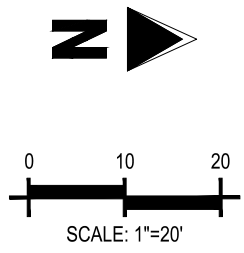
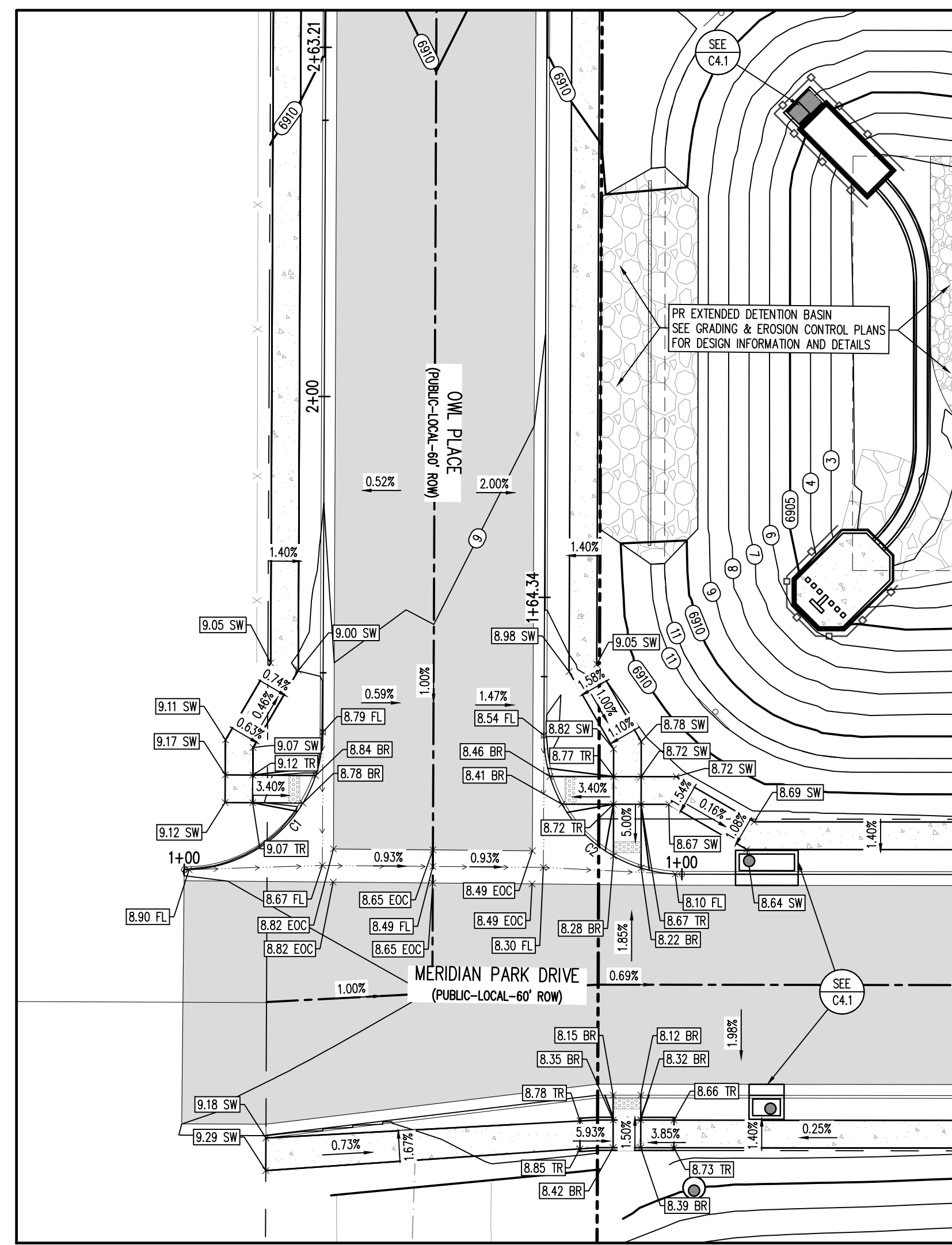
OWL PLACE

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MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX**

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931



MERIDIAN PARK DRIVE (B) & OWL PLACE (A) - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
SCALE: 1"=20'

UTILITY LEGEND

- W — EXISTING WATER LINE
- - - W - - - PROPOSED WATER LINE
- - - SS - - - EXISTING SANITARY SEWER
- - - SS - - - PROPOSED SANITARY SEWER
- - - S - - - EXISTING STORM SEWER
- - - S - - - PROPOSED STORM SEWER
- - - G - - - EXISTING GAS LINE
- - - G - - - PROPOSED GAS LINE
- - - U - - - EXISTING UNDERGROUND TELEPHONE
- - - U - - - EXISTING OVERHEAD ELECTRIC
- - - FO - - - EXISTING FIBER OPTIC LINE
- - - FT - - - EXISTING FIBER OPTIC STRUCTURES
- ⊠ EXISTING TELEPHONE PEDESTAL
- ⊠ EXISTING ELECTRIC TRANSFORMER
- ⊠ EXISTING POWER POLE
- ⊠ EXISTING STREET LIGHT
- ⊠ PROPOSED STREET LIGHT
- ⊠ PROPOSED WATER METER
- ⊠ EXISTING WATER VALVE
- ⊠ PROPOSED WATER VALVE
- ⊠ EXISTING FIRE HYDRANT
- ⊠ PROPOSED FIRE HYDRANT
- ⊠ EXISTING STORM SEWER MANHOLE
- ⊠ PROPOSED STORM SEWER MANHOLE
- ⊠ EXISTING SANITARY SEWER MANHOLE
- ⊠ PROPOSED SANITARY SEWER MANHOLE

DETAIL GRADING LEGEND

- P — PROPERTY BOUNDARY LINE
- - - P — ADJACENT PROPERTY BOUNDARY LINE
- - - R — RIGHT OF WAY BOUNDARY LINE
- - - L — PROPOSED LOT LINE
- - - E — PROPOSED EASEMENT LINE
- - - C — ROAD CENTERLINE
- → → S — PROPOSED SWALE FLOWLINE
- C — PROPOSED CURB AND GUTTER
- S — PROPOSED SIDEWALK
- ⊠ 5485 ⊠ PROPOSED MAJOR CONTOUR
- ⊠ 66 ⊠ PROPOSED MINOR CONTOUR
- 2.00% → PROPOSED SLOPE - PERCENT
- 4:1 → PROPOSED SLOPE - RISE/RUN
- 89.00 HP ⊠ PROPOSED SPOT ELEVATION - HIGH POINT
- 89.00 LP ⊠ PROPOSED SPOT ELEVATION - LOW POINT
- 89.00 TR ⊠ PROPOSED SPOT ELEVATION - TOP OF RAMP
- 89.00 BR ⊠ PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
- 89.00 FL ⊠ PROPOSED SPOT ELEVATION - FLOW LINE
- 89.00 CL ⊠ PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
- 89.00 TBC ⊠ PROPOSED SPOT ELEVATION - TOP BACK OF CURB
- 89.00 LIP ⊠ PROPOSED SPOT ELEVATION - LIP OF GUTTER
- 89.00 TSG ⊠ PROPOSED SPOT ELEVATION - FINISHED GRADE
- 89.00 SW ⊠ PROPOSED SPOT ELEVATION - SIDEWALK
- 89.00 EOC ⊠ PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
- 89.00 EOA ⊠ PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

FLOW LINE CURVE SEGMENT TABLE

CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C2	90°10'06"	39.34	25.00	S44°35'42"W	35.41
C1	89°59'42"	39.27	25.00	S45°19'24"E	35.35

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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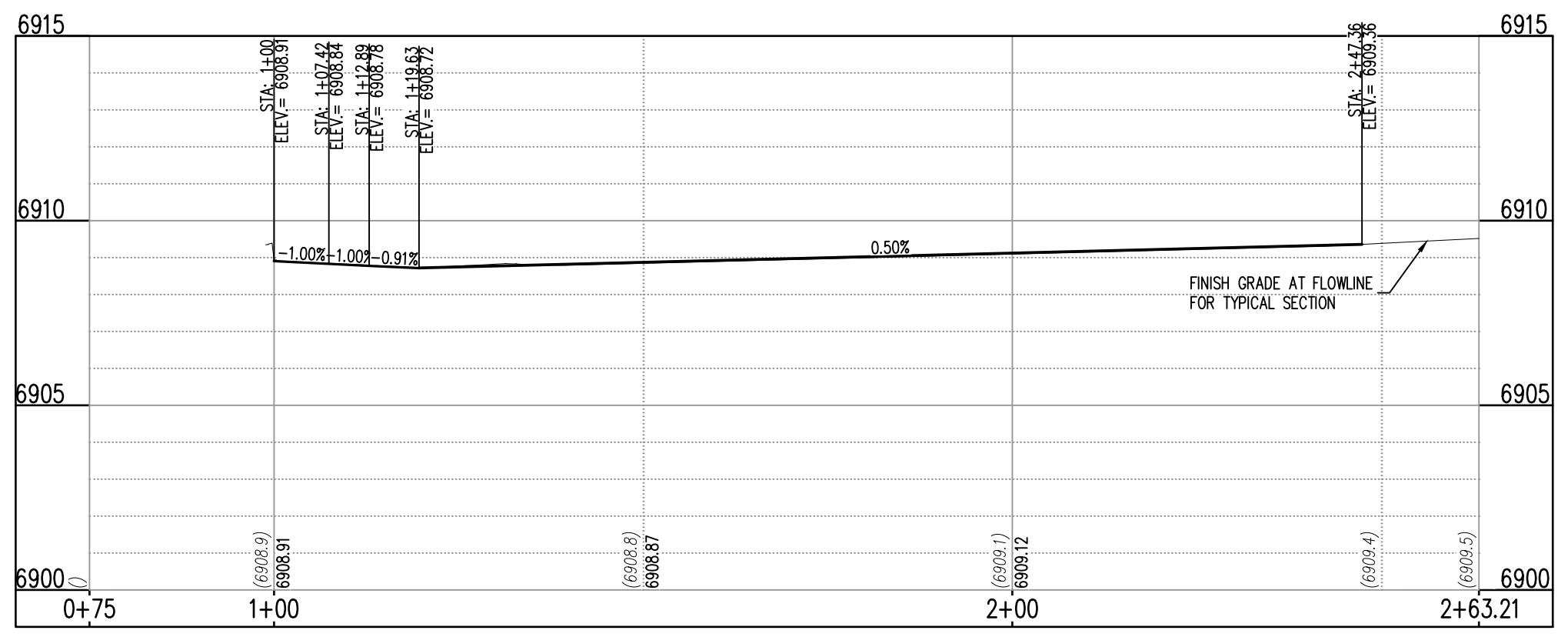
SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

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ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

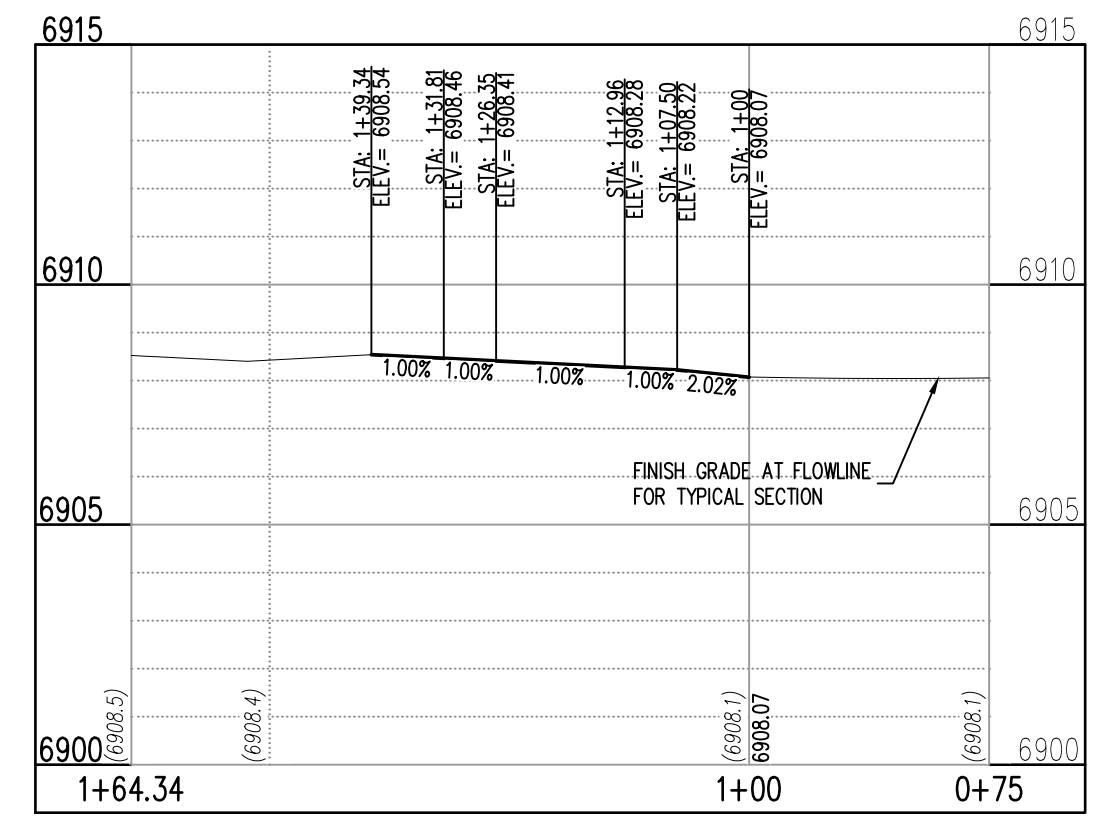
BENCHMARK
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 2496A" NAVD88 ELEVATION = 6947.67

CAUTION - NOTICE TO CONTRACTOR

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ST-B & ST-A (LT) (STA: 1+00 - 2+63.21)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

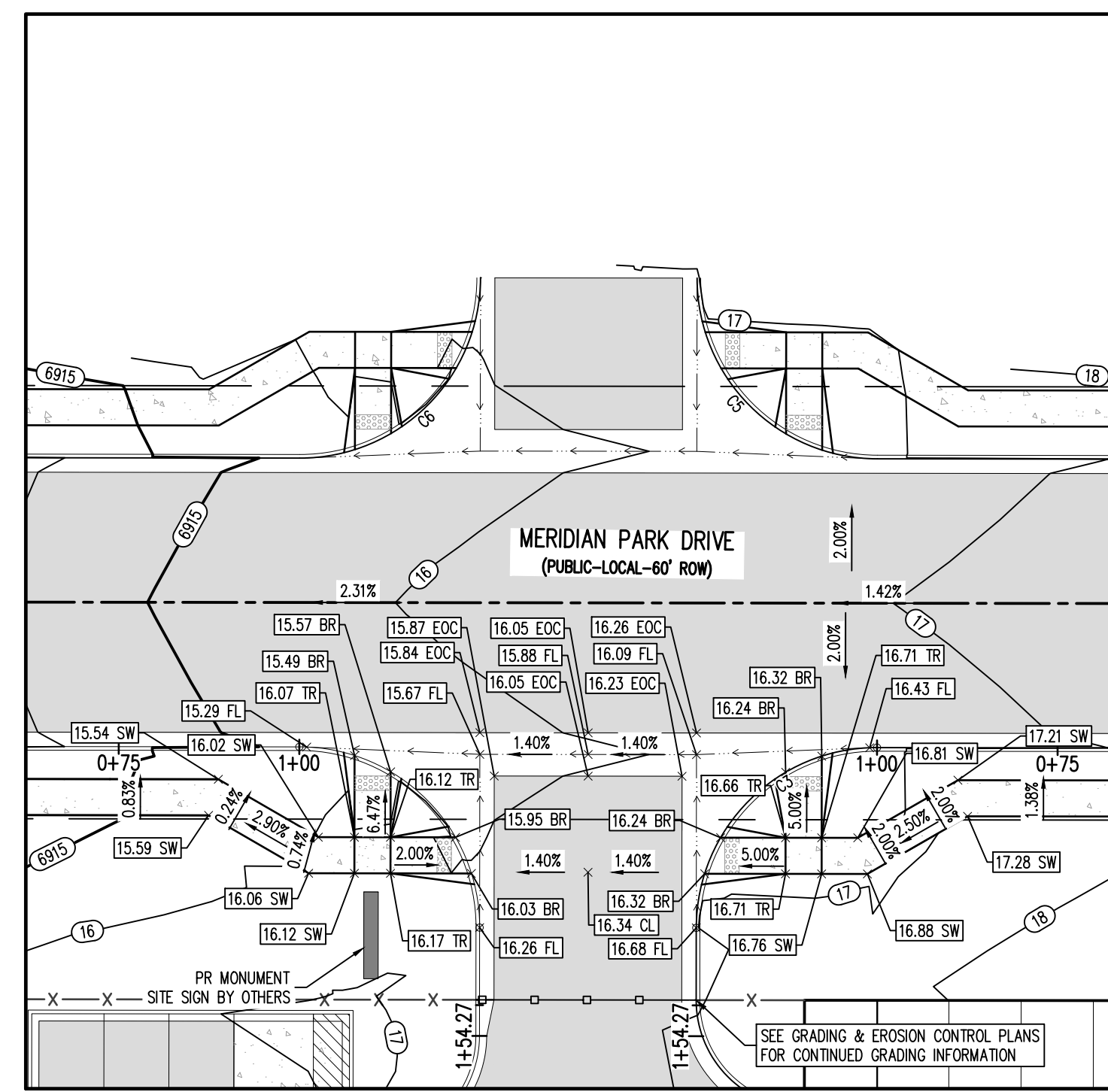


ST-B & ST-A (RT) (STA: 1+00 - -1+64.34)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

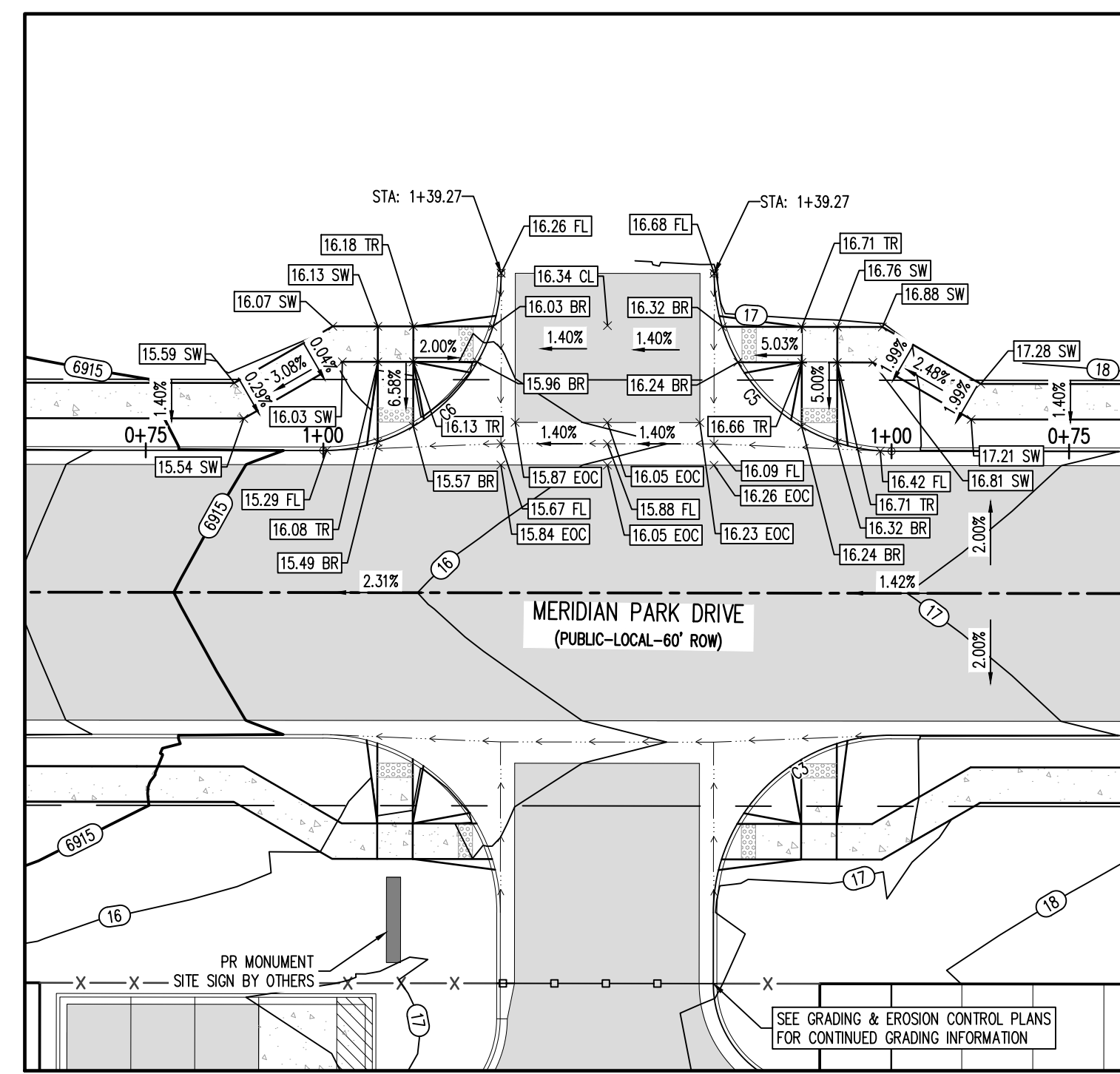
#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

INTERSECTION DETAILS

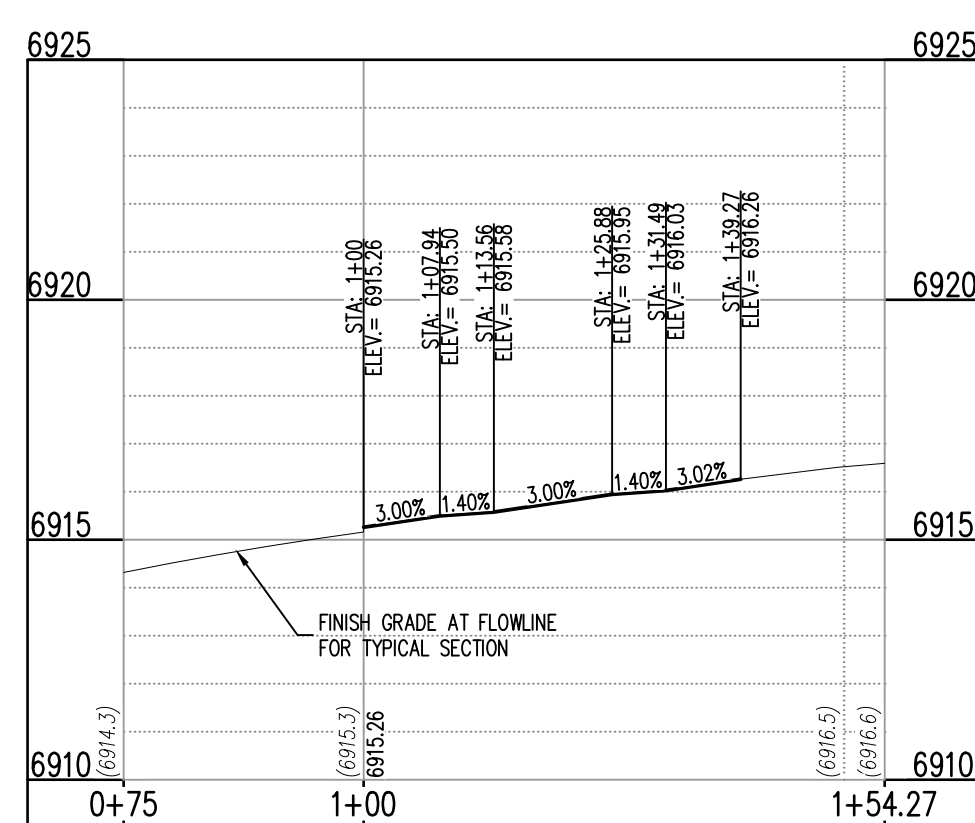


MERIDIAN PARK DRIVE (B) & STREET C (EAST) - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
SCALE: 1"=20'

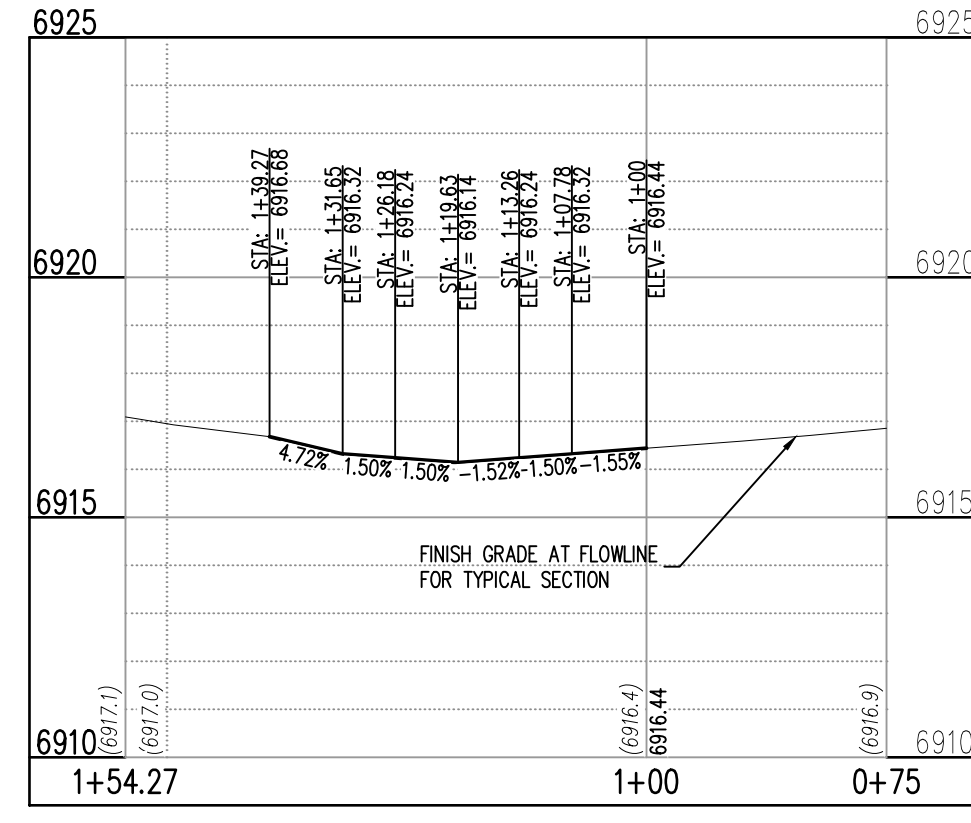


MERIDIAN PARK DRIVE (B) & STREET C (WEST) - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
SCALE: 1"=20'

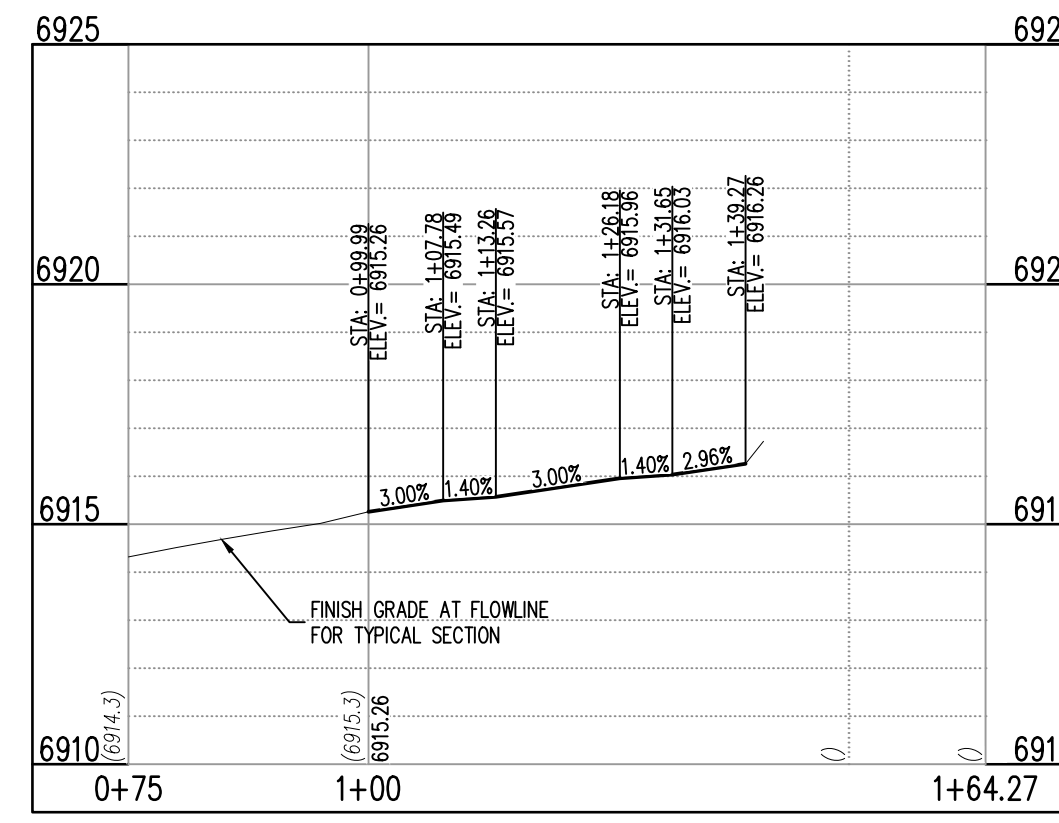
FLOW LINE CURVE SEGMENT TABLE					
CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C3	90°00'00"	39.27	25.00	S45°29'21"E	35.36
C5	90°00'00"	39.27	25.00	S44°30'39"W	35.36
C6	90°00'00"	39.27	25.00	S45°29'21"E	35.36



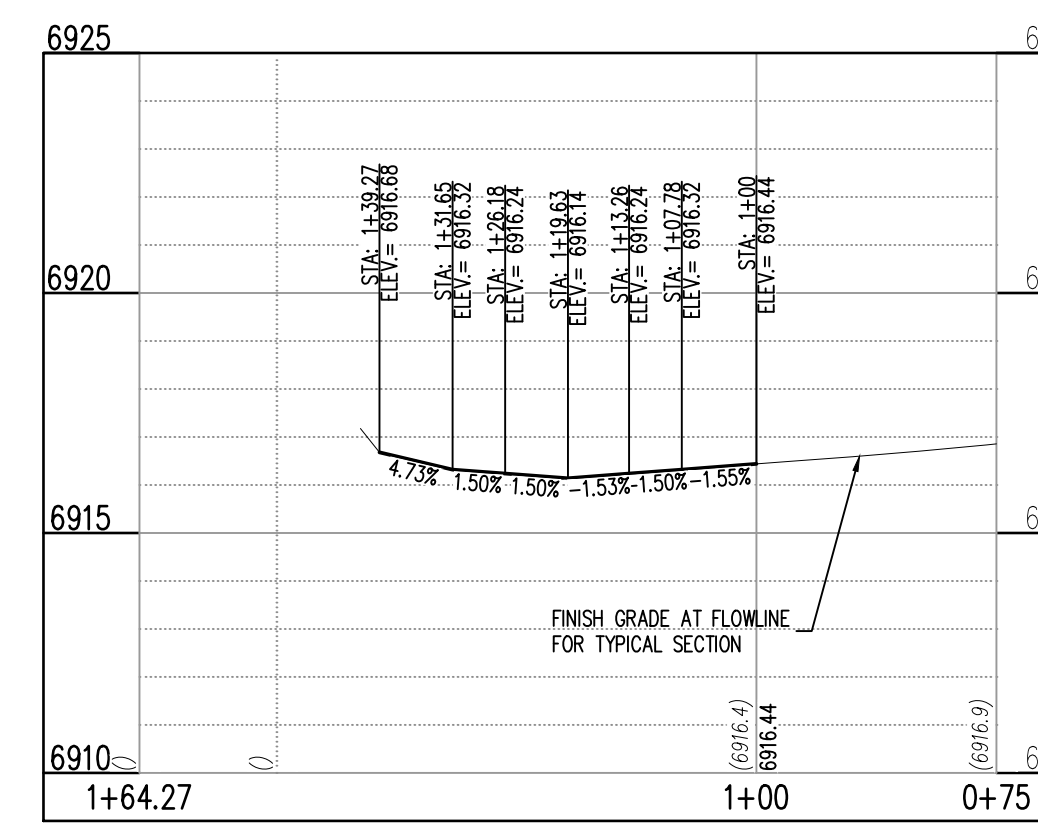
ST-B & ST-C (EAST) (LT) (STA: 0+75 - 1+54.27)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



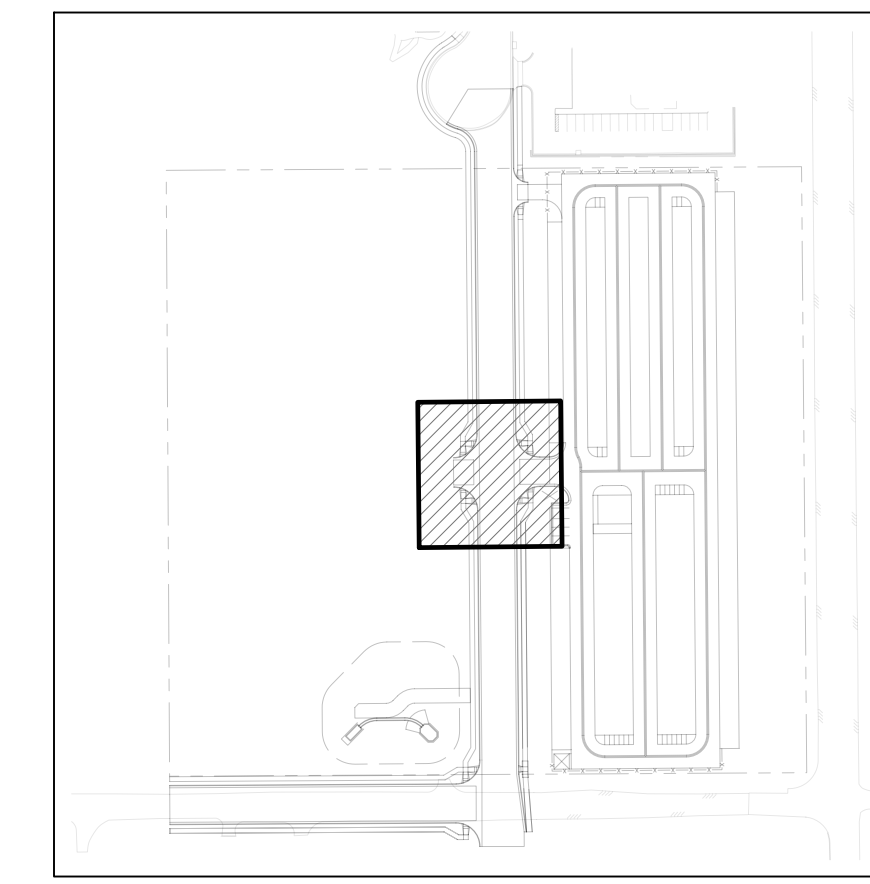
ST-B & ST-C (EAST) (RT) (STA: 0+75 - 1+54.27)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-C (WEST) (LT) (STA: 0+75 - 1+64.27)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-C (WEST) (RT) (STA: 0+75 - 1+64.27)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



KEYMAP
SCALE: 1"=200'

DETAIL GRADING LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED SWALE FLOWLINE
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
- S485 --- PROPOSED MAJOR CONTOUR
- 66 --- PROPOSED MINOR CONTOUR
- PROPOSED SLOPE - PERCENT
- PROPOSED SLOPE - RISE/RUN
- 89.00 HP --- PROPOSED SPOT ELEVATION - HIGH POINT
- 89.00 LP --- PROPOSED SPOT ELEVATION - LOW POINT
- 89.00 TR --- PROPOSED SPOT ELEVATION - TOP OF RAMP
- 89.00 BR --- PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
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- 89.00 FG --- PROPOSED SPOT ELEVATION - FINISHED GRADE
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- 89.00 EOC --- PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
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BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

INTERSECTION DETAILS

C3.4

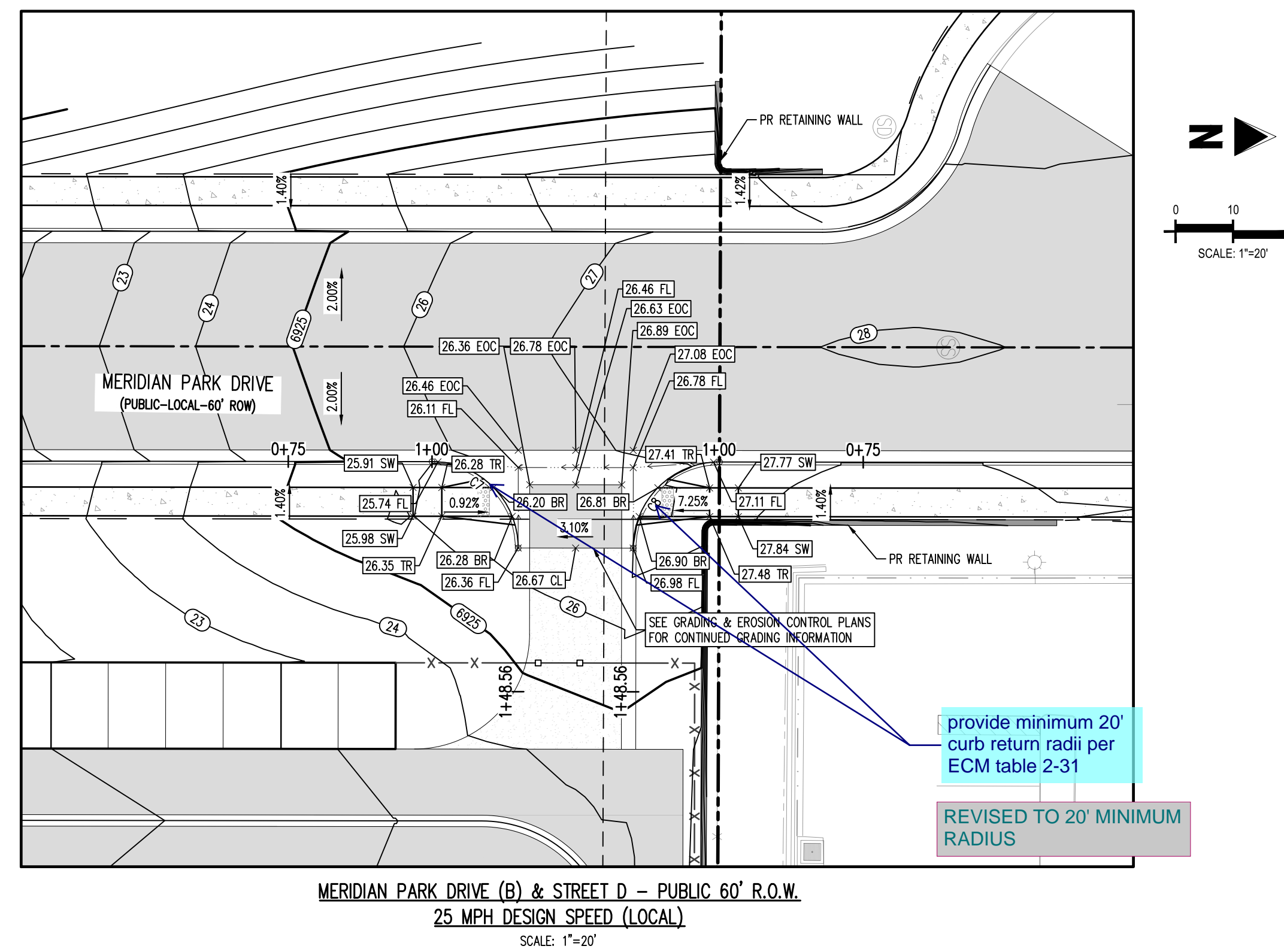
Sheet 11 of 25

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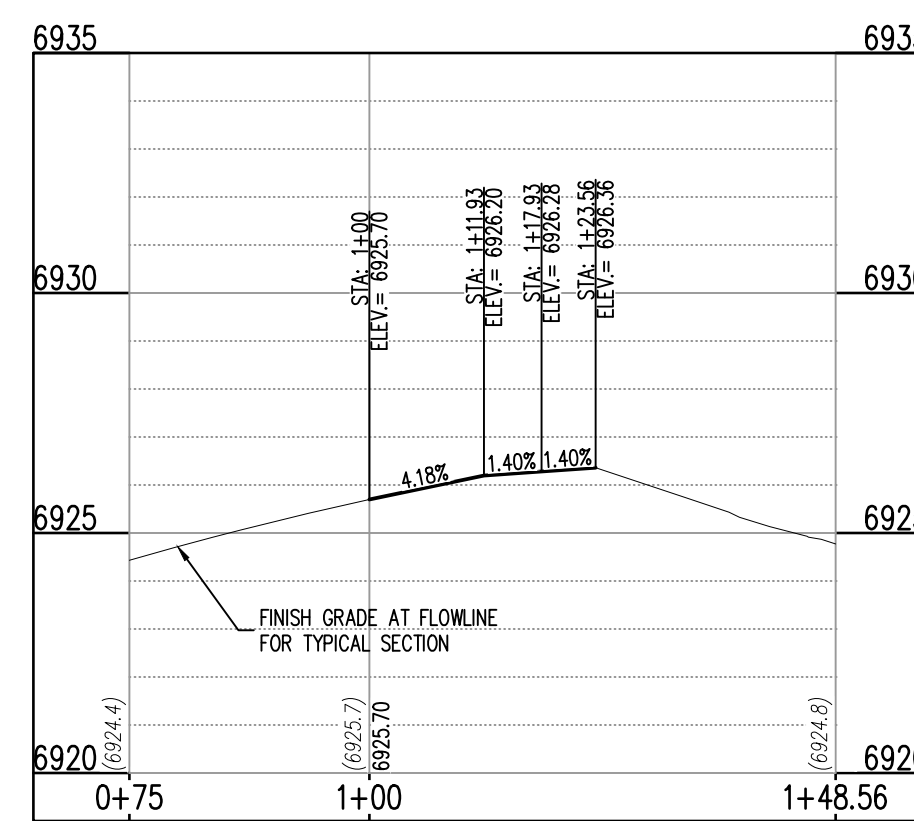


provide minimum 20' curb return radii per ECM table 2-31
REVISED TO 20' MINIMUM RADIUS

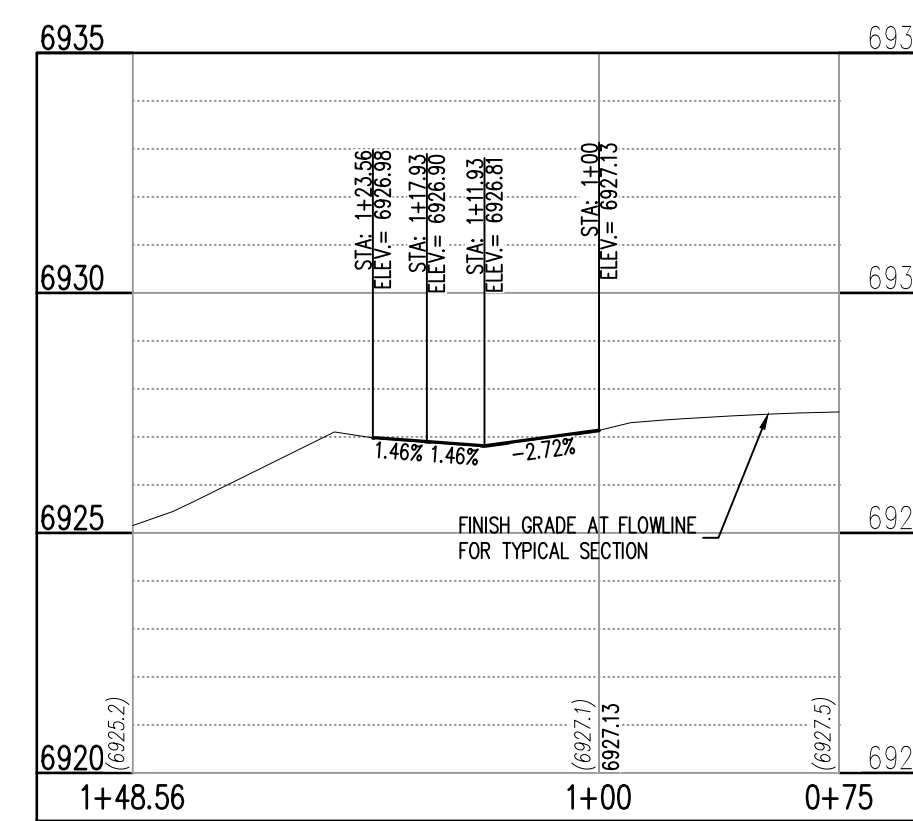
UTILITY LEGEND	
---	EXISTING WATER LINE
-W-	PROPOSED WATER LINE
---	EXISTING SANITARY SEWER
-SS-	PROPOSED SANITARY SEWER
---	EXISTING STORM SEWER
-S-	PROPOSED STORM SEWER
---	EXISTING GAS LINE
-G-	PROPOSED GAS LINE
---	EXISTING UNDERGROUND TELEPHONE
-UT-	EXISTING OVERHEAD ELECTRIC
OE	EXISTING FIBER OPTIC LINE
FO	EXISTING FIBER OPTIC STRUCTURES
TP	EXISTING TELEPHONE PEDESTAL
ET	EXISTING ELECTRIC TRANSFORMER
EP	EXISTING POWER POLE
SL	EXISTING STREET LIGHT
PSL	PROPOSED STREET LIGHT
WM	PROPOSED WATER METER
WV	EXISTING WATER VALVE
WV	PROPOSED WATER VALVE
FH	EXISTING FIRE HYDRANT
FH	PROPOSED FIRE HYDRANT
SM	EXISTING STORM SEWER MANHOLE
SM	PROPOSED STORM SEWER MANHOLE
SM	EXISTING SANITARY SEWER MANHOLE
SM	PROPOSED SANITARY SEWER MANHOLE

DETAIL GRADING LEGEND	
---	PROPERTY BOUNDARY LINE
---	ADJACENT PROPERTY BOUNDARY LINE
---	RIGHT OF WAY BOUNDARY LINE
---	PROPOSED LOT LINE
---	PROPOSED EASEMENT LINE
---	ROAD CENTERLINE
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89.00 EOC	PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
89.00 EOA	PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

FLOW LINE CURVE SEGMENT TABLE					
CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C7	90°00'00"	23.56	15.00	S44°30'39"W	21.21
C8	90°00'00"	23.56	15.00	S45°29'21"E	21.21



ST-B & ST-D (STA: 0+75 - 1+48.56)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=6'



ST-B & ST-D (STA: 0+75 - 1+48.56)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=6'

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BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 2496A", NAVD88 ELEVATION = 6947.67

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#	Date	Issue / Description	Init.

INTERSECTION DETAILS

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

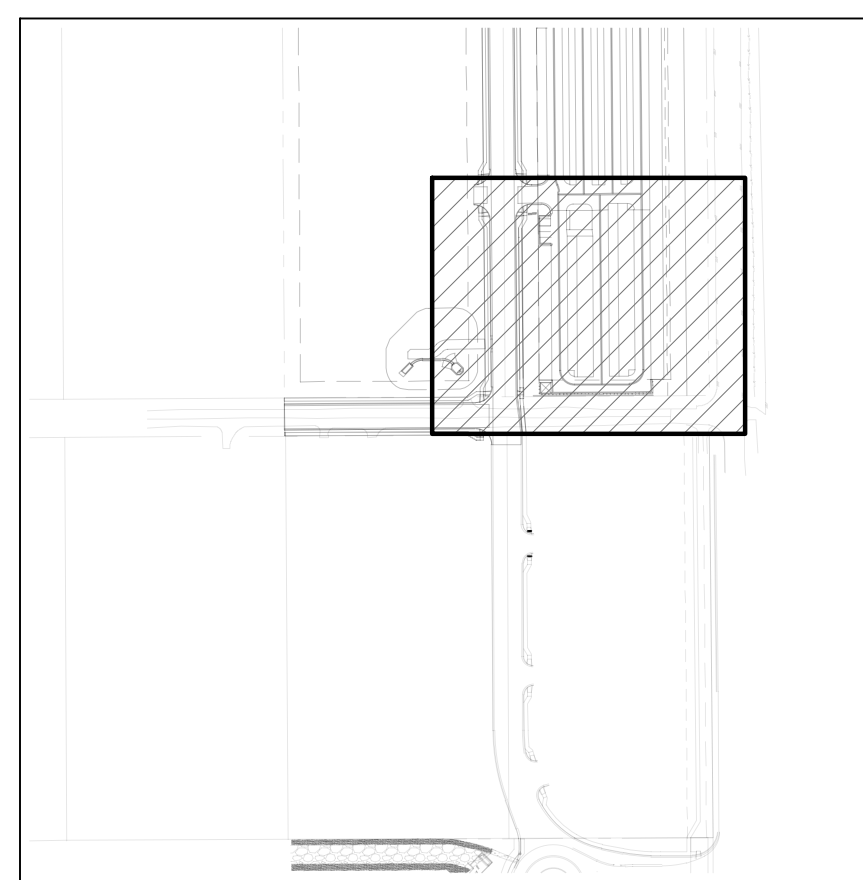
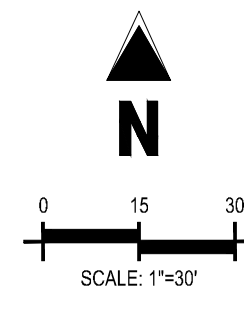
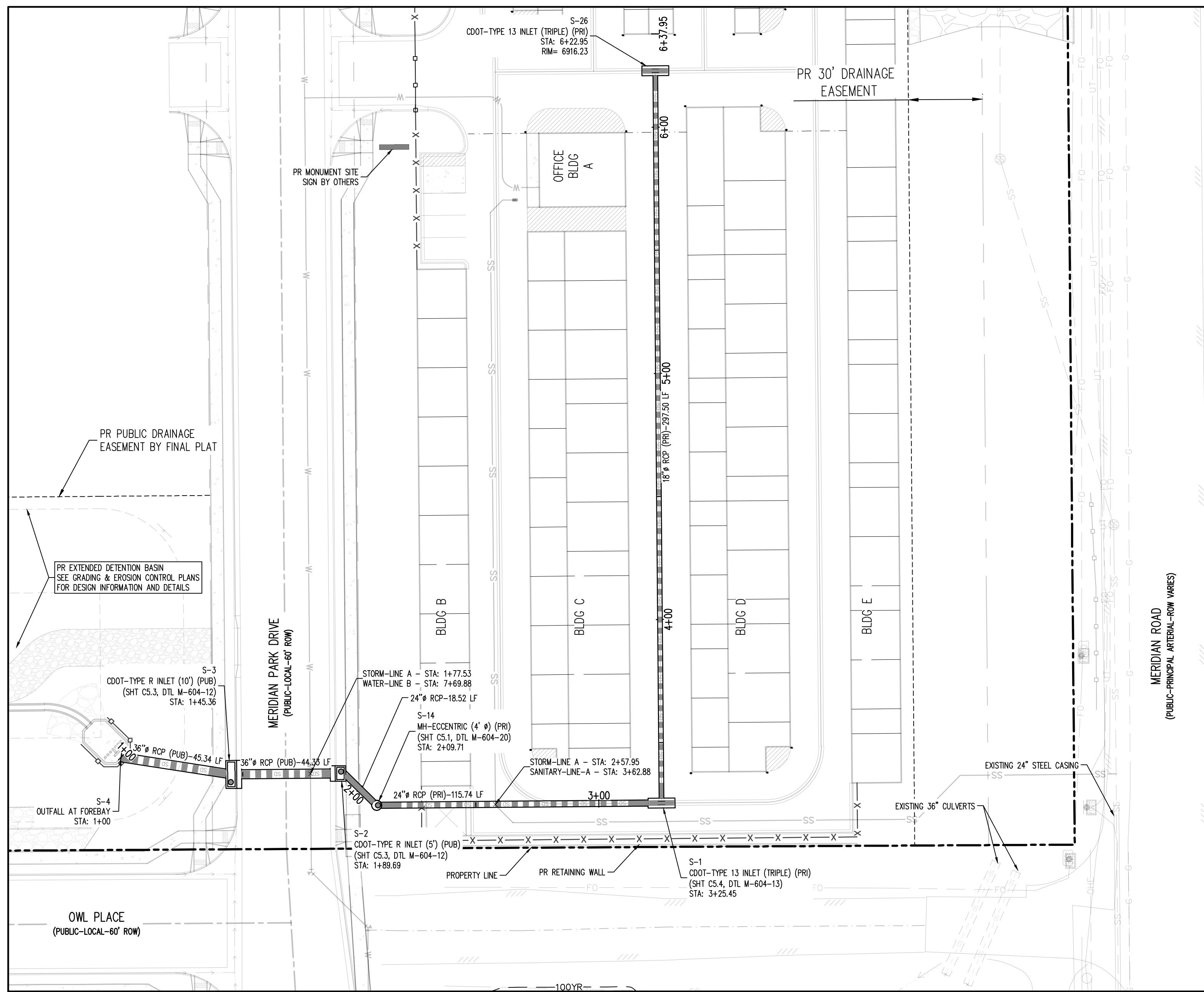
C3.5
Sheet 12 of 25

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931



KEYMAP
SCALE: 1"=300'

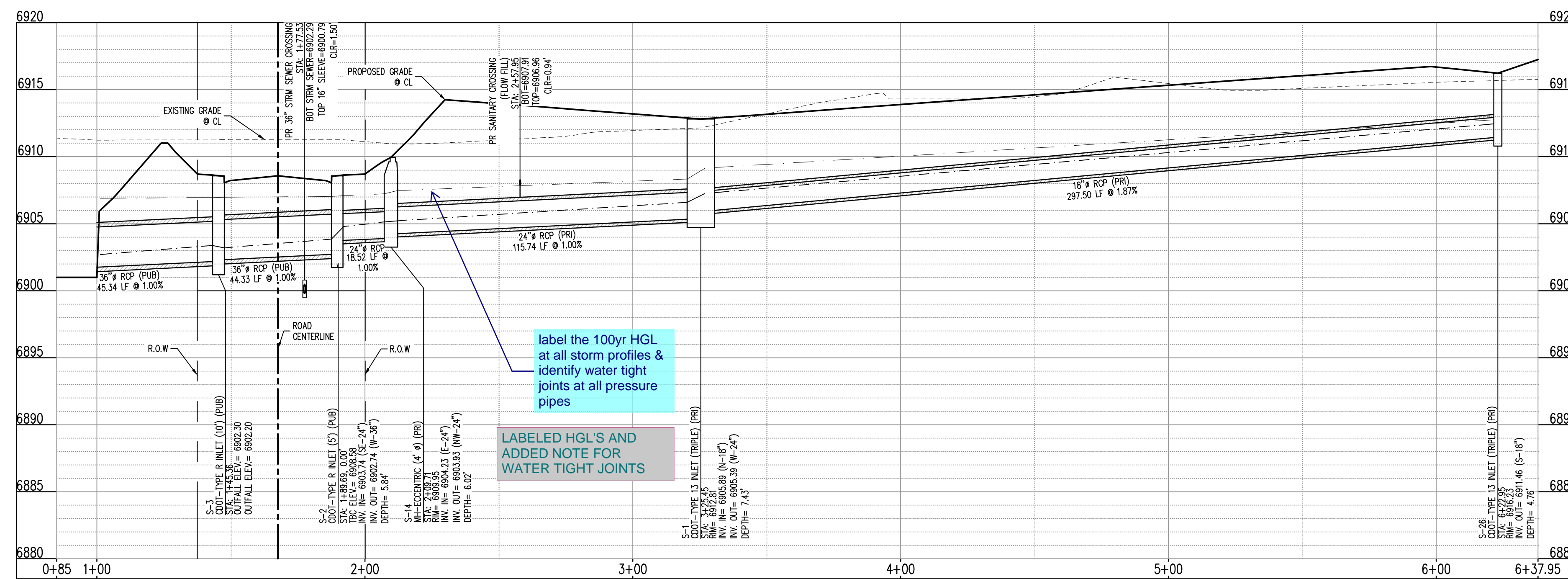
UTILITY LEGEND

- W - EXISTING WATER LINE
- W - PROPOSED WATER LINE
- SS - EXISTING SANITARY SEWER
- SS - PROPOSED SANITARY SEWER
- SSS - EXISTING STORM SEWER
- SSS - PROPOSED STORM SEWER
- G - EXISTING GAS LINE
- G - PROPOSED GAS LINE
- T - EXISTING UNDERGROUND TELEPHONE
- T - EXISTING OVERHEAD ELECTRIC
- FO - EXISTING FIBER OPTIC LINE
- T - EXISTING TELEPHONE PEDESTAL
- T - EXISTING ELECTRIC TRANSFORMER
- P - EXISTING POWER POLE
- L - EXISTING STREET LIGHT
- L - PROPOSED STREET LIGHT
- M - EXISTING WATER METER
- M - EXISTING WATER VALVE
- M - PROPOSED WATER VALVE
- F - EXISTING FIRE HYDRANT
- F - PROPOSED FIRE HYDRANT
- M - EXISTING STORM SEWER MANHOLE
- M - PROPOSED STORM SEWER MANHOLE
- M - EXISTING SANITARY SEWER MANHOLE
- M - PROPOSED SANITARY SEWER MANHOLE

SITE LEGEND

- P - PROJECT BOUNDARY LINE
- A - ADJACENT PROPERTY BOUNDARY LINE
- R - RIGHT OF WAY LINE
- L - EXISTING ADJACENT LOT LINE
- L - PROPOSED LOT LINE
- E - EXISTING EASEMENT LINE
- E - PROPOSED EASEMENT LINE
- C - PROPOSED ROAD CENTERLINE
- C - EXISTING ROAD CENTERLINE
- R - PROPOSED RIDGE LINE
- R - EXISTING RIDGE LINE
- S - PROPOSED SWALE LINE
- S - EXISTING SWALE LINE
- F - 100-YR FLOODPLAIN BOUNDARY
- X - EXISTING FENCE
- X - PROPOSED FENCE
- G - EXISTING GUARDRAIL
- G - EXISTING CURB AND GUTTER
- G - EXISTING CURB AND GUTTER
- G - EXISTING EDGE OF ASPHALT
- G - PROPOSED SIDEWALK
- T - PROPOSED TRAIL
- T - PROPOSED GRAVEL PER EGM TABLE D-7
- T - RIPRAP OUTFALL PADS
- S - EXISTING SIGN
- S - PROPOSED SIGN
- B - PROPOSED BOLLARDS

STORM DRAIN PLAN - LINE A
SCALE: 1"=30'



STORM DRAIN PROFILE - LINE A (STA: 0+85 - 6+37.95)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'

CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP). ASSUMES WALL THICKNESS AS SHOWN BELOW:

PIPE I.D. (INCHES)	WALL THICKNESS (INCHES)	PIPE O.D. (INCHES)
12	2.00	16.00
15	2.25	19.50
18	2.50	23.00
21	2.75	26.50
24	3.00	30.00
27	3.25	33.50
30	3.50	37.00
33	3.75	40.50
36	4.00	44.00
42	4.50	51.00
48	5.00	58.00
54	5.50	65.00
60	6.00	72.00
66	6.50	78.50

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, 4 & 4 OF FALCON PARCELS, AND IS TO BE CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964", NAVD88 ELEVATION = 6947.67

CAUTION - NOTICE TO CONTRACTOR

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2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

STORM DRAIN PLAN

BASIS OF BEARING
 ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

BENCHMARK
 THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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SITE LEGEND

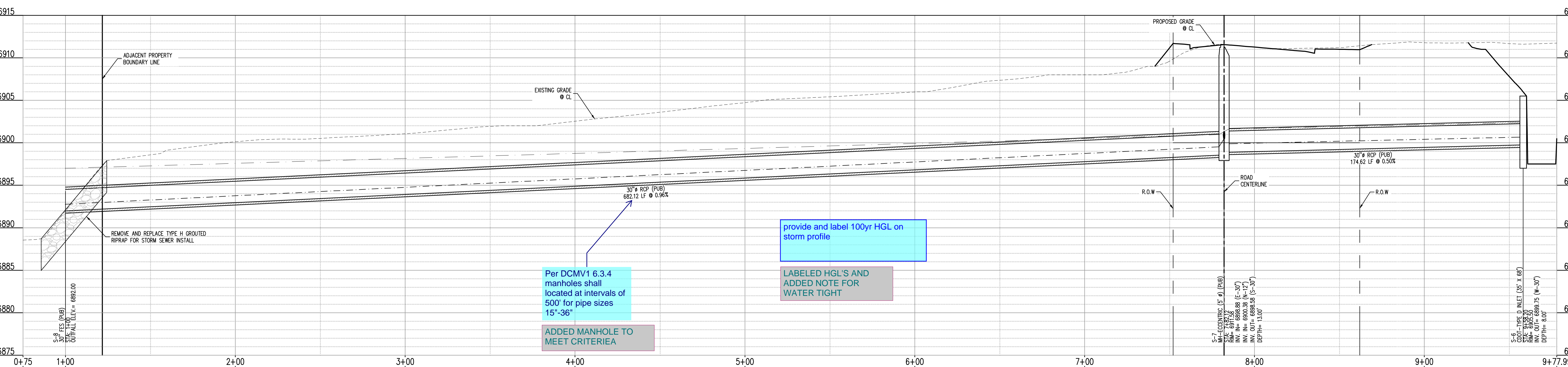
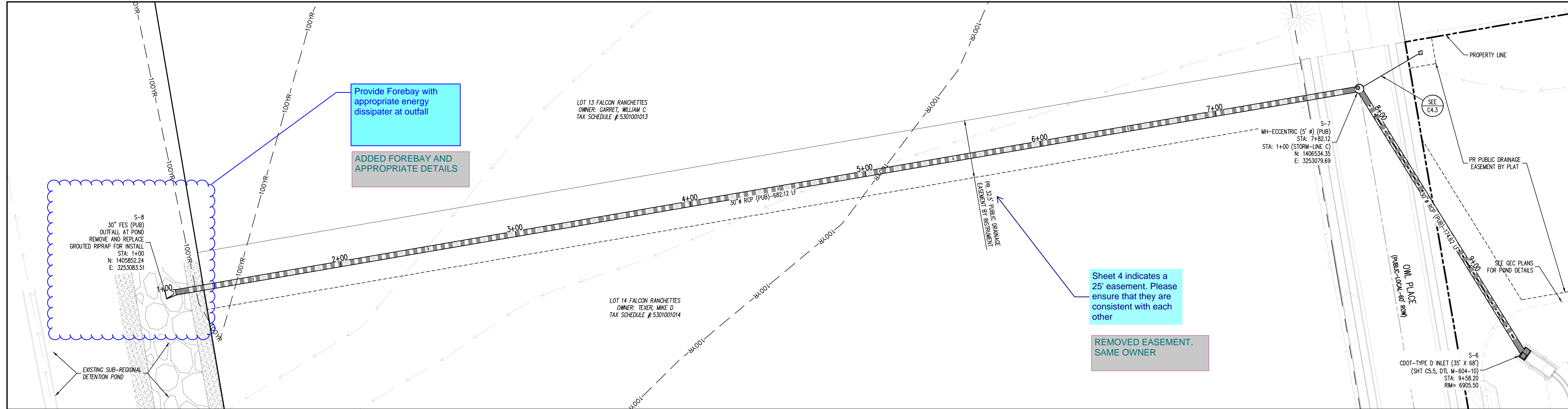
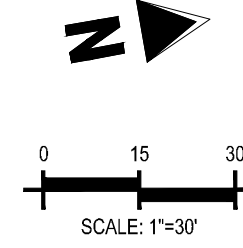
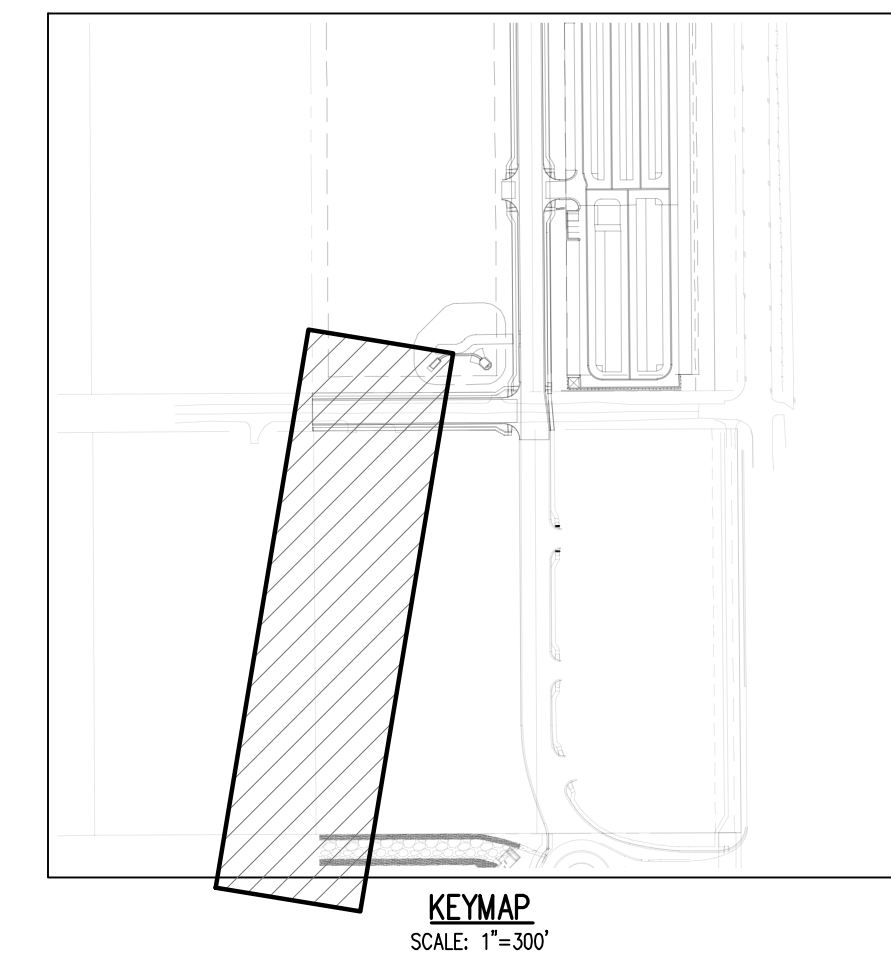
- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARDRAIL
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER ECM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

UTILITY LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING EASEMENT LINE
- PROPOSED GAS LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC LINE
- EXISTING FIBER OPTIC STRUCTURES
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRIC TRANSFORMER
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- PROPOSED WATER METER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE

CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP) ASSUMES WALL THICKNESS AS SHOWN BELOW:

PIPE I.D. (INCHES)	WALL THICKNESS (INCHES)	PIPE O.D. (INCHES)
12	2.00	16.00
15	2.25	19.50
18	2.50	23.00
21	2.75	26.50
24	3.00	30.00
27	3.25	33.50
30	3.50	37.00
33	3.75	40.50
36	4.00	44.00
42	4.50	51.00
48	5.00	58.00
54	5.50	65.00
60	6.00	72.00
66	6.50	78.50



#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

STORM DRAIN PLAN

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CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX

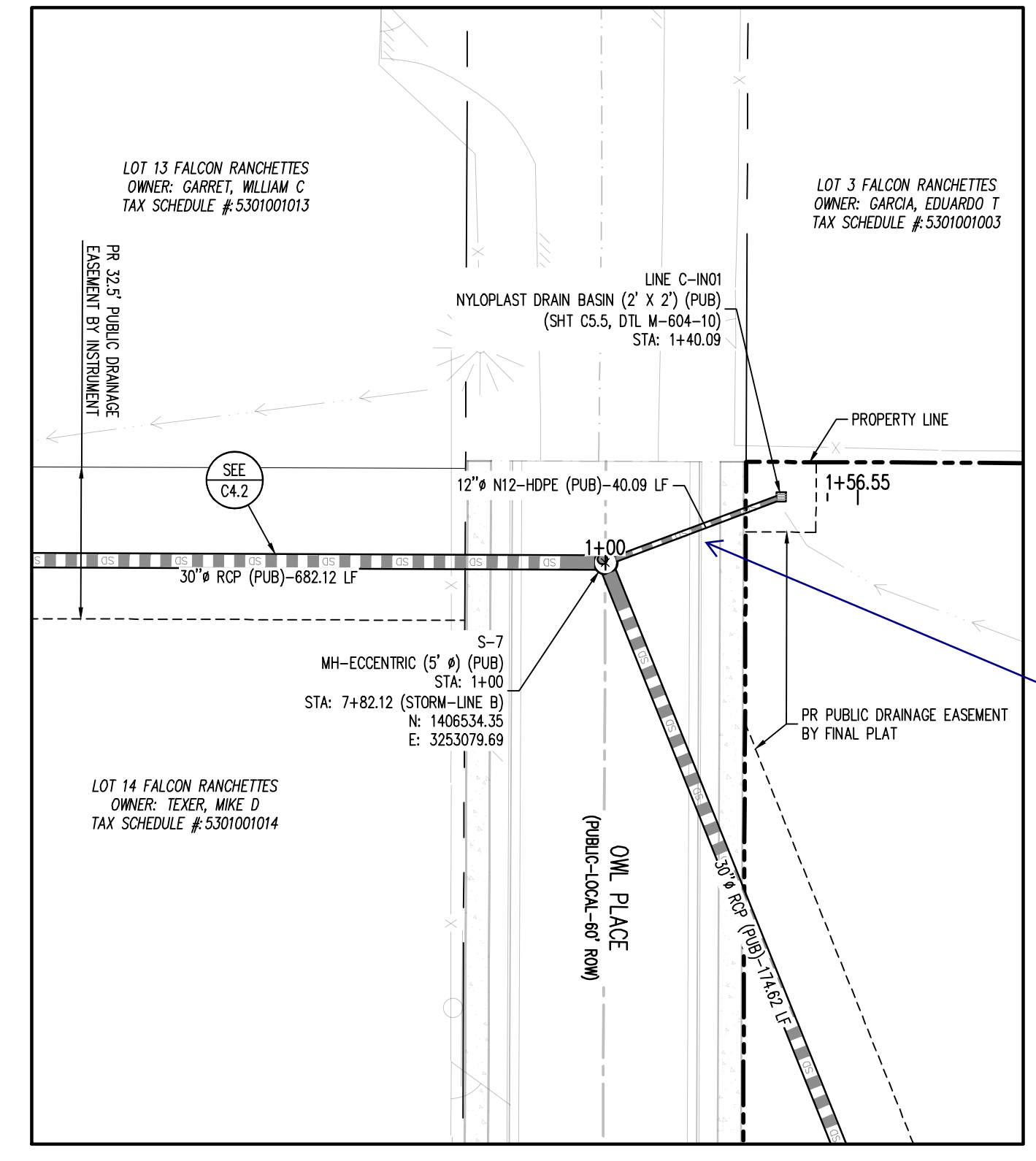
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

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Project No:	MRS01
Drawn By:	JDM
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Date:	PUB

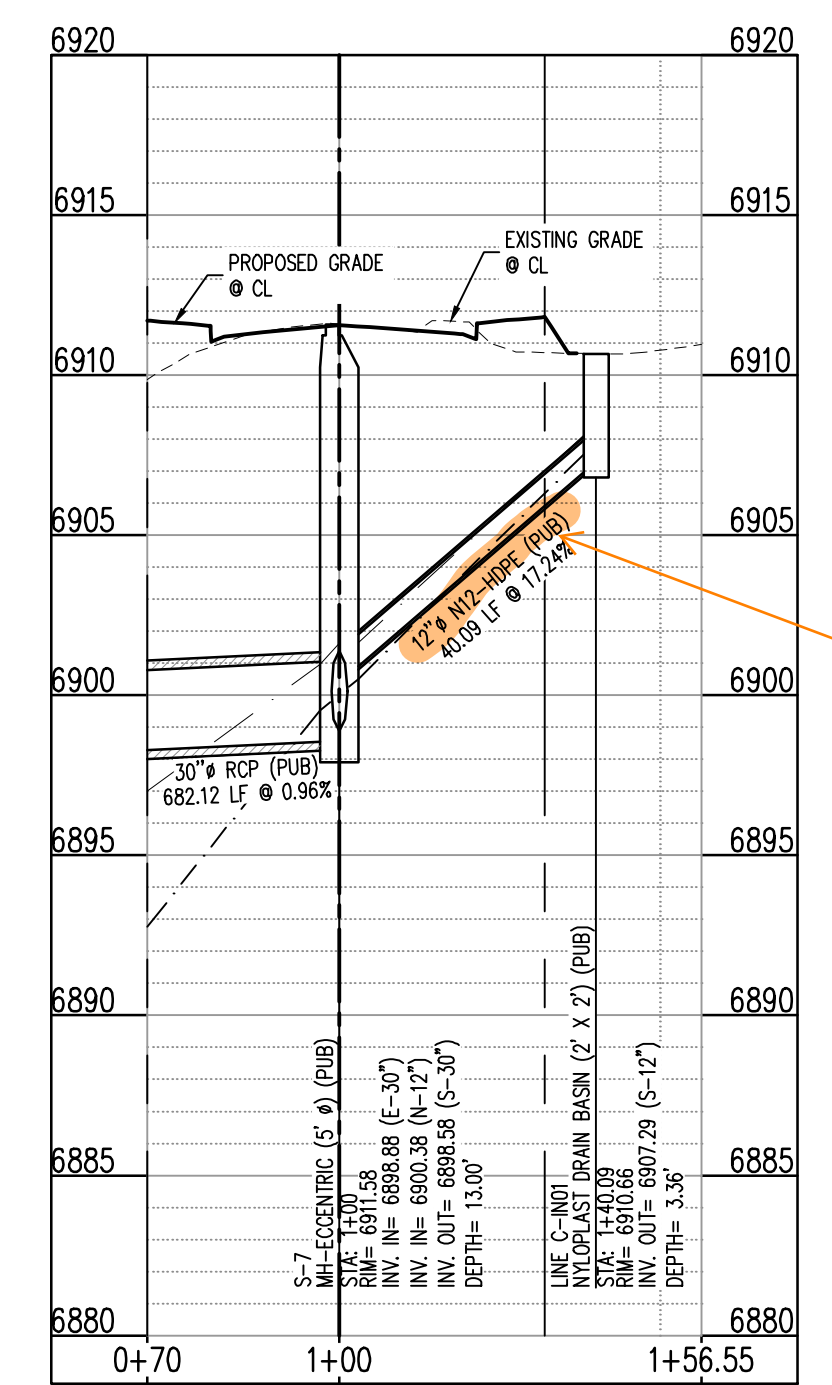
STORM DRAIN PLAN

C4.3
 Sheet 15 of 25



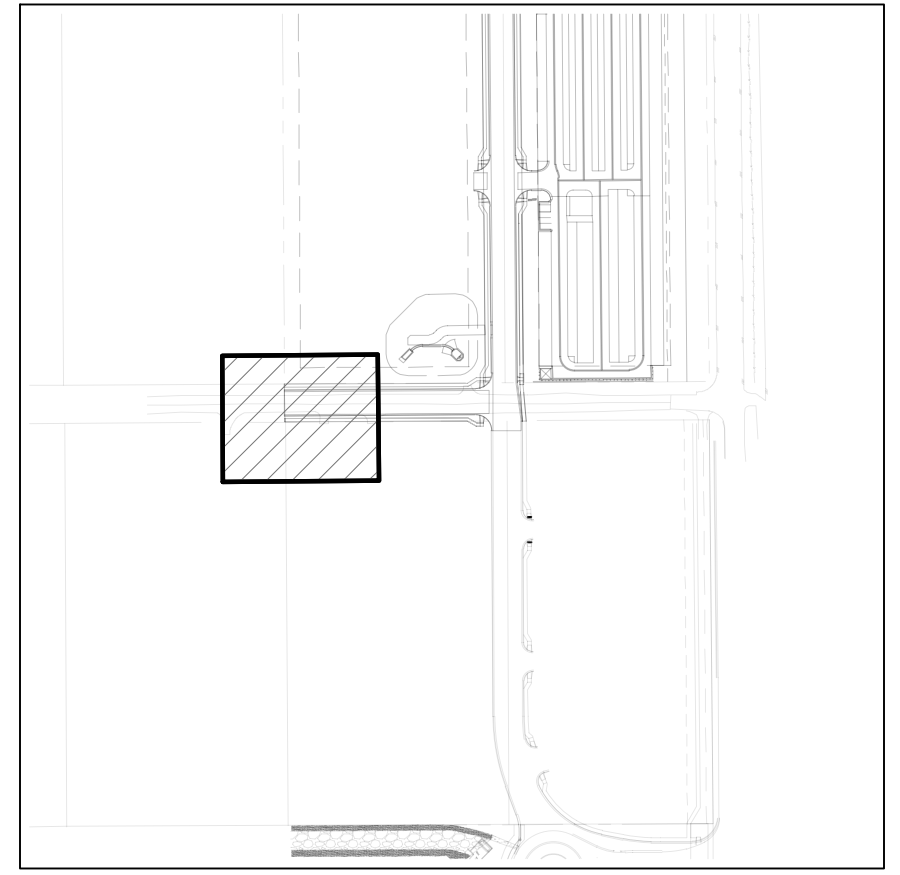
all storm sewers within the County's ROW are required to be RCP and a min. 18". See ECM 3.3.1.J.
 CHANGED TO 18" RCP

STORM DRAIN PLAN - LINE C
 SCALE: 1"=30'



Plastic pipe is not allowed in County R/W.
 CHANGED TO 18" RCP

STORM DRAIN PROFILE - LINE C (STA: 1+00 - 2+06.65)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



KEYMAP
 SCALE: 1"=300'

SITE LEGEND

- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
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PIPE I.D. (INCHES)	WALL THICKNESS (INCHES)	PIPE O.D. (INCHES)
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27	3.25	33.50
30	3.50	37.00
33	3.75	40.50
36	4.00	44.00
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48	5.00	58.00
54	5.50	65.00
60	6.00	72.00
66	6.50	80.00

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BENCHMARK
 THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964"
 NAVD83 ELEVATION = 6947.67

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#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

STORM DRAIN DETAILS

T-BASE MANHOLES NOTES

- THE T-BASE SECTION SHALL BE SHOP-FABRICATED FOR DELIVERY TO THE CONSTRUCTION SITE AS A COMPLETE UNIT.
- THESE DETAILS SHOW ONLY THE CONCEPTUAL AND STANDARD DIMENSIONAL REQUIREMENTS FOR TYPE T-BASE MANHOLES. THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE DETAILS SHOWN HEREIN APPLY ONLY TO 48 IN. AND GREATER DIAMETER PIPES.
- EXCEPT FOR CLASS OF PIPE, SPECIFICATIONS FOR THE MANHOLE SHALL BE THE SAME AS THOSE REQUIRED FOR THE ADJOINING PIPE.
- THE T-BASE SECTION SHALL MAINTAIN ITS INTERNAL SHAPE AND FLOW AREA. GROUTING OR FILLING SHALL BE APPLIED SO AS TO NOT DISTURB THE NORMAL FLOW OR REDUCE THE AREA.

Computer File Information

Creation Date: 07/31/19	
Designer Initials: JBK	
Last Modification Date: 07/31/19	
Detailer Initials: LTA	
CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments:

Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

MANHOLES
Issued by the Project Development Branch July 31, 2019

STANDARD PLAN NO.	
M-604-20	
Standard Sheet No. 3 of 3	
Project Sheet Number:	

GENERAL NOTES

- INLET TYPE D IS NOT HO-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- SEE PLANS FOR SIZE AND LOCATION OF PIPE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE D INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET-6 INCHES AND SHALL CONFORM WITH AASHTO M 199.
- REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A 2 INCH MIN. CLEARANCE CUT OR BEND BARS AROUND PIPE AS REQUIRED.
- ALL INLETS SHALL HAVE A 4 INCH DIA. METAL MEDALLION WITH A "NO STOPPING GRATES TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE INLET'S SURFACE WITH A PERMANENT FASTENER.

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Project Development Branch JBK

INLET, TYPE D
Issued by the Project Development Branch July 31, 2019

STANDARD PLAN NO.	
M-604-11	
Standard Sheet No. 1 of 1	
Project Sheet Number:	

QUANTITIES FOR ONE INLET

INLET SIZE (FT. - "D")	CONCRETE CU. YDS.	STEEL LBS.	CIRCULAR PIPE RANGE INSIDE DIA. (IN. - "D")
3.0	1.5	127	18
3.5	1.7	149	18-24
4.0	1.9	157	18-30
4.5	2.0	179	18-36
5.0	2.2	187	18-42
5.5	2.4	208	18-42
6.0	2.6	215	18-42
6.5	2.8	236	18-42
7.0	2.9	243	18-42
7.5	3.1	264	18-42
8.0	3.3	271	18-42
8.5	3.5	292	18-42
9.0	3.6	299	18-42
9.5	3.8	320	18-42
10.0	4.0	327	18-42

CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.



#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

STORM DRAIN DETAILS

PIPE INSTALLATION
 (WITH 0.7 PROJECTION RATIO)

NOTE: Bc IS THE OUTSIDE DIMENSION FOR DIAMETER, SPAN OR RISE.

PIPE SIZE - Bc (INSIDE DIA)	CIRCULAR (CIR)		VERTICAL ELLIPTICAL (VE)		HORIZONTAL ELLIPTICAL (HE)	
	WALL THICKNESS	0.3 Bc (OUTSIDE DIA) FT.	SPAN	RISE	SPAN	RISE
12	2	0.40			23	14
15	2-1/4	0.49				2-1/4
18	2-1/2	0.58				
21	2-3/4	0.66			30	19
24	3	0.75			34	22
27	3-1/4	0.84				
30	3-1/2	0.92			38	24
33	3-3/4	1.01			45	29
36	4	1.10	29	45	4-1/2	1.35
42	4-1/2	1.28	34	53	5	1.58
48	5	1.45	38	60	5-1/2	1.78
54	5-1/2	1.62	43	68	6	2.00
60	6	1.80	48	76	6-1/2	2.23
66	6-1/2	1.97	53	83	7	2.43
72	7	2.15	58	91	7-1/2	2.65
78	7-1/2	2.32	63	98	8	2.85
84	8	2.50	68	106	8-1/2	3.08
90	8-1/2	2.68	72	113	9	3.28
96	9	2.85	77	121	9-1/2	3.50
102	9-1/2	3.02	82	129	9-3/4	3.69
108	10	3.20	87	136	10	3.90

△ ALSO EQUIVALENT ROUND DIMENSION FOR ELLIPTICAL PIPE.

DIMENSIONS FOR REINFORCED CONCRETE PIPE
 (FOR INFORMATION ONLY)

CONCRETE PIPE WITH END SECTIONS
 NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

H = HEIGHT OF FILL OVER TOP OF PIPE, INCLUDING PAVEMENT THICKNESS.
 L1 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 624.
 L2 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 603.

CONCRETE PIPE WITHOUT END SECTIONS
 NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

MINIMUM COVER FOR RIGID PIPE
 12" MIN.

TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)				
	CLASS OF PIPE (0.01 IN. CRACK D-L-LOAD)		CLASS CIR V		
CIRCULAR (CIR)	CLASS CIR II	CLASS CIR III	CLASS CIR IV	CLASS CIR V	CLASS VE VI
VERTICAL ELLIPTICAL (VE)	CLASS VE II	CLASS VE III	CLASS VE IV	CLASS VE V	CLASS VE VI
HORIZONTAL ELLIPTICAL (HE)	CLASS HE II	CLASS HE III	CLASS HE IV	CLASS HE V	CLASS HE VI

ALLOWABLE RANGE OF HEIGHTS FOR FILL OVER REINFORCED CONCRETE PIPE
 (ALL SIZES)

Computer File Information

Creation Date: 07/31/19
 Designer: Initials: JBK
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Sheet Revisions

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 2829 West Howard Place
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 Phone: 303-757-9021 FAX: 303-757-9868

Project Development Branch JBK

REINFORCED CONCRETE PIPE

Issued by the Project Development Branch July 31, 2019

STANDARD PLAN NO.
 M-603-2
 Standard Sheet No. 1 of 1

Project Sheet Number: _____

TYPE 13 INLET FOR GUTTER TYPE 2

SECTION A-A
 D MAX = 30 IN. FOR H > 4 FT.

SECTION B-B
 D MAX = 18 IN. FOR ALL H

GENERAL NOTES

- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4" IN.
- REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM TO ASHTO M 199.
- ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND 15 20 LOADINGS.
- STATION POINT IS AT THE CENTER OF THE INLET.
- GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.

TABLE 712.06-1: QUANTITIES FOR ONE INLET

H	CONCRETE VOL. YDS.	REINFORCING STEEL # LB.	NO. OF 40# BARS REQ'D.	MAXIMUM PIPE I.D.	SEC. A-A	SEC. B-B
3'-0"	1.3	72	4	18	18	18
3'-6"	1.5	76	4	24	18	18
4'-0"	1.6	90	5	30	18	18
4'-6"	1.8	104	6	30	18	18
5'-0"	1.9	109	6	30	18	18
5'-6"	2.1	122	7	30	18	18
6'-0"	2.2	136	8	30	18	18
6'-6"	2.4	141	8	30	18	18
7'-0"	2.5	154	9	30	18	18
7'-6"	2.7	168	10	30	18	18
8'-0"	2.8	173	10	30	18	18
8'-6"	3.0	187	11	30	18	18
9'-0"	3.1	200	12	30	18	18
9'-6"	3.3	205	12	30	18	18
10'-0"	3.4	219	13	30	18	18

SECTION C-C, SECTION D-D, SECTION E-E, SECTION F-F

BAR LIST FOR H = 3 FT.-0 IN.

MARK	NO. REQ'D.	DIMENSIONS	LENGTH
401	4	3'-6"	2'-2"
402	2	3'-4 1/2"	8'-0 1/2"
403	5	2'-1 1/2"	7'-2 1/2"

Computer File Information

Creation Date: 07/04/12
 Last Modification Date: 07/04/12
 Full Path: www.coloradodo.info/business/designsupport
 Drawing File Name: 604013101.dgn
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments:

Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9083
 Fax: (303) 757-9820

Project Development Branch DD/LTA

CONCRETE INLET TYPE 13

Issued By Project Development Branch July 4, 2012

STANDARD PLAN NO.
 M-604-13
 Sheet No. 1 of 1

Meridian Storage, LLC, 19 The County, Meridian, Colorado 80931; Design: DCD/CD/2019/00000001; CCL; 13mm; Date: 07/04/12; Job: MRS01-1212020



STEEL GRATE QUANTITIES

NO.	DESCRIPTION	LENGTH PER FT. (LBS.)	NO. STEPS
4	S4 x 7.7 BEAM	41"	7.90 106
2	3 1/2" x 1/2" FLAT	26 3/4"	2.50 12
			TOTAL LBS. - 131

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
2'-6"	1.0	76	0
3'-0"	1.1	81	0
3'-6"	1.2	97	0
4'-0"	1.3	102	1
4'-6"	1.5	117	2
5'-0"	1.6	123	2
5'-6"	1.7	138	2
6'-0"	1.9	143	3
6'-6"	2.0	159	3
7'-0"	2.1	184	3
7'-6"	2.2	180	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-0"	3.3	252	6

GENERAL NOTES

- INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN. 2 INCH CLEARANCE, CUT OR BEND AROUND PIPES AS REQUIRED.
- CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507, REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W14 X W14 OR 6 X 6 - W21 X W21.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO ASHTO M 195.
- SEE STANDARD PLAN M-604-1I, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- ALL INLETS SHALL HAVE A 4 INCH DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H = 2 FT. - 6 IN. AND BENDING DIAGRAM

MARK	NO.	HEIGHT	LENGTH
401	2	2'-2 1/4"	8'-0"
401	6	2'-7"	8'-8"
402	4	10"	15'-4"

INCREASE DIMENSION 6 IN. FOR EACH 6 IN. INCREASE OF "H" ABOVE 2 FT. - 6 IN.

ADD ONE BAR FOR EACH FT. INCREASE OF "H" ABOVE 2 FT. - 6 IN.

402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.

Computer File Information

Creation Date:	07/31/19
Designer Initials:	JBK
Last Modification Date:	07/31/19
Detailer Initials:	LTA
CAD Ver.:	MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments:

Colorado Department of Transportation

2829 West Howard Place
 CDOT HQ, 3rd Floor
 Denver, CO 80204
 Phone: 303-757-9021 FAX: 303-757-9868

Project Development Branch **JBK**

INLET, TYPE C

STANDARD PLAN NO. M-604-10
 Standard Sheet No. 1 of 1
 Issued by the Project Development Branch July 31, 2019

#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

STORM DRAIN DETAILS

SITE LEGEND

- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- X-X-X-X-X-X PROPOSED FENCE
- EXISTING GUARDRAIL
- EXISTING CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EOM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

GRADING LEGEND

- 5460 --- EXISTING MAJOR CONTOUR
- 52 --- EXISTING MINOR CONTOUR
- 5465 --- PROPOSED MAJOR CONTOUR
- 55 --- PROPOSED MINOR CONTOUR
- 2.00% --- EXISTING SLOPE - PERCENT
- 4:1 --- EXISTING SLOPE - RISE/RUN
- 2.00% --- PROPOSED SLOPE - PERCENT
- 4:1 --- PROPOSED SLOPE - RISE/RUN
- 89.00 HP --- PROPOSED SPOT ELEVATION - HIGH POINT
- 89.00 LP --- PROPOSED SPOT ELEVATION - LOW POINT
- 89.00 TOB --- PROPOSED SPOT ELEVATION - TOP OF BERM
- 89.00 FL --- PROPOSED SPOT ELEVATION - FLOW LINE
- 89.00 TG --- PROPOSED SPOT ELEVATION - TOP OF GRATE
- 89.00 FG --- PROPOSED SPOT ELEVATION - FINISHED GRADE
- 89.00 SW --- PROPOSED SPOT ELEVATION - SIDEWALK
- 89.00 EOC --- PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
- 89.00 EOA --- PROPOSED SPOT ELEVATION - EDGE OF ASPHALT
- 89.00 ME --- PROPOSED SPOT ELEVATION - MATCH EXISTING

UTILITY LEGEND

- EXISTING WATER LINE
- W --- PROPOSED WATER LINE
- SS --- EXISTING SANITARY SEWER
- SS --- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- SS --- PROPOSED STORM SEWER
- EXISTING GAS LINE
- G --- PROPOSED GAS LINE
- UT --- EXISTING UNDERGROUND TELEPHONE
- OHE --- EXISTING OVERHEAD ELECTRIC
- FO --- EXISTING FIBER OPTIC LINE
- FO --- EXISTING FIBER OPTIC STRUCTURES
- TP --- EXISTING TELEPHONE PEDESTAL
- ET --- EXISTING ELECTRIC TRANSFORMER
- EP --- EXISTING POWER POLE
- ESL --- EXISTING STREET LIGHT
- PSL --- PROPOSED STREET LIGHT
- PSM --- PROPOSED WATER METER
- WV --- EXISTING WATER VALVE
- PWSV --- PROPOSED WATER VALVE
- FHY --- EXISTING FIRE HYDRANT
- PFI --- PROPOSED FIRE HYDRANT
- SMH --- EXISTING STORM SEWER MANHOLE
- PSMH --- PROPOSED STORM SEWER MANHOLE
- SSMH --- EXISTING SANITARY SEWER MANHOLE
- PSSH --- PROPOSED SANITARY SEWER MANHOLE

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

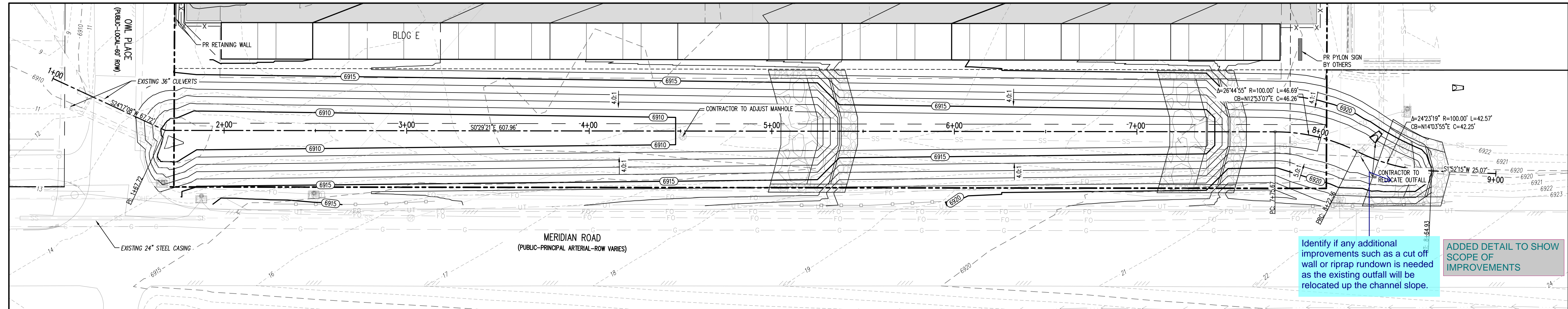
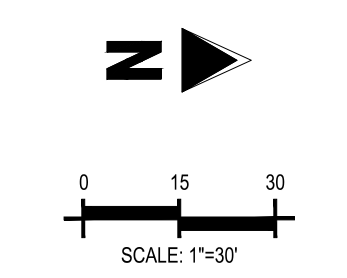
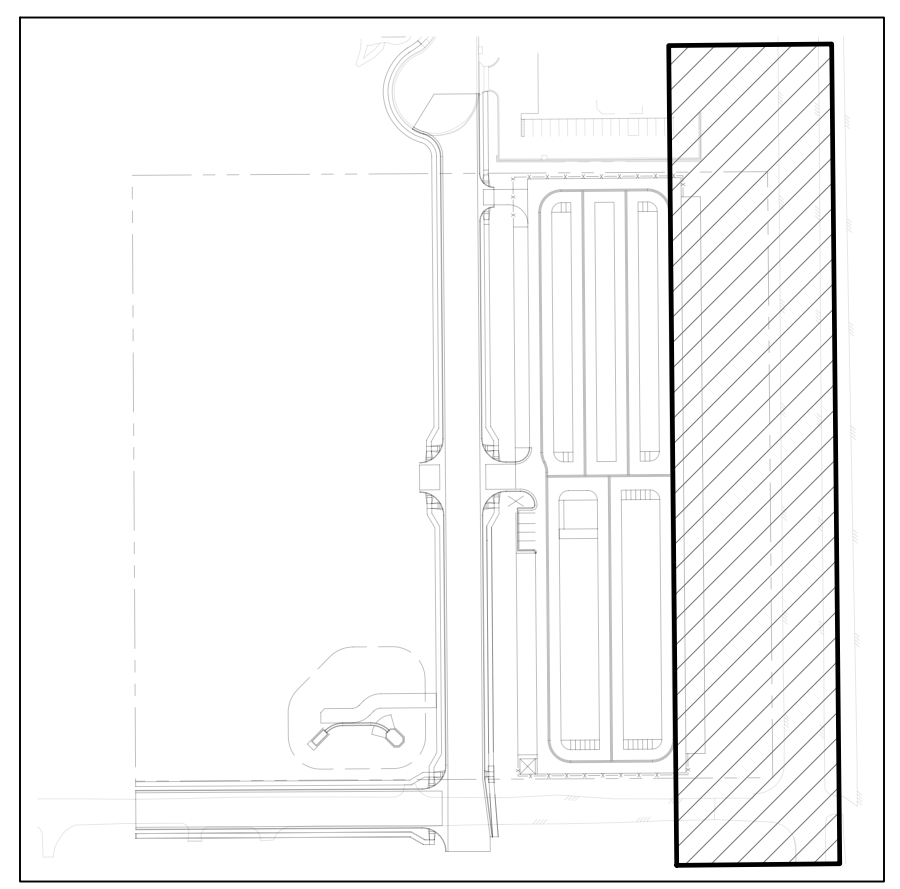
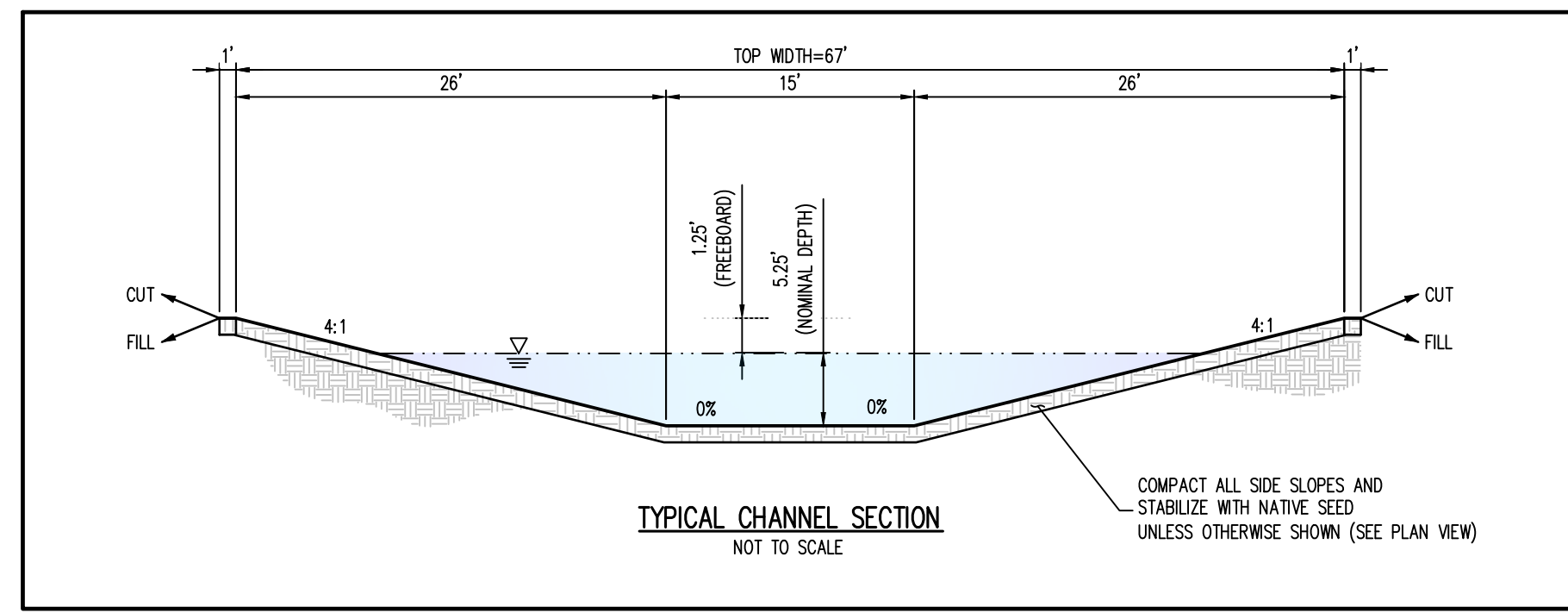
NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

CAUTION - NOTICE TO CONTRACTOR

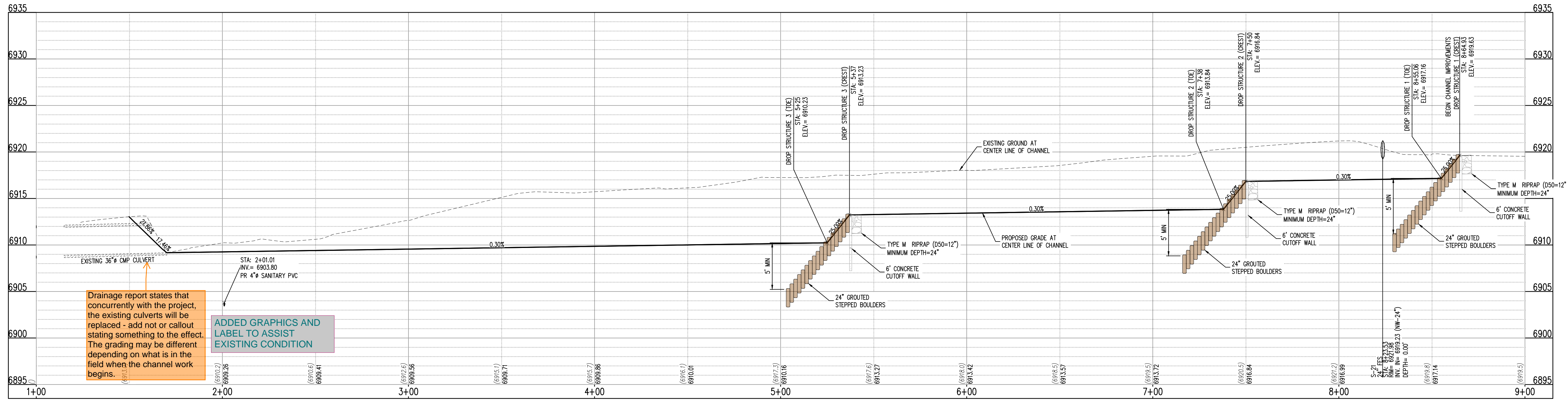
1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



Identify if any additional improvements such as a cut off wall or riprap rundown is needed as the existing outfall will be relocated up the channel slope.

ADDED DETAIL TO SHOW SCOPE OF IMPROVEMENTS



Drainage report states that concurrently with the project, the existing culverts will be replaced - add not or callout stating something to the effect. The grading may be different depending on what is in the field when the channel work begins.

ADDED GRAPHICS AND LABEL TO ASSIST EXISTING CONDITION

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

CHANNEL PLAN & PROFILE

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CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

DROP STRUCTURE 2 & 3
 DETAILS

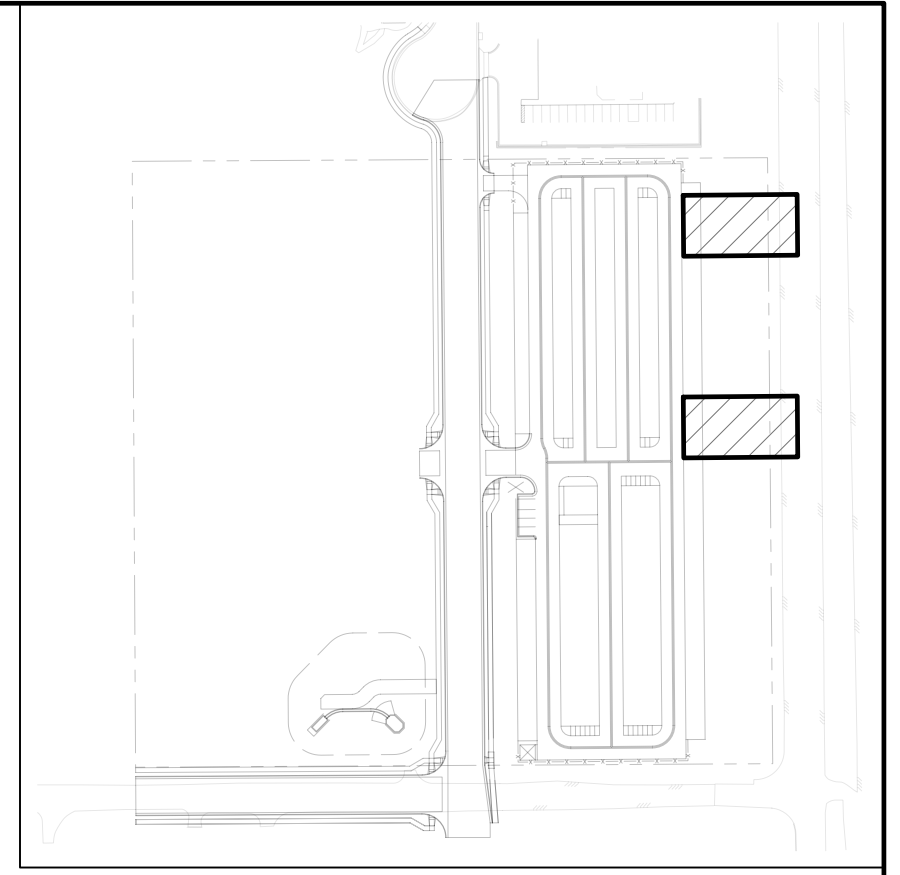
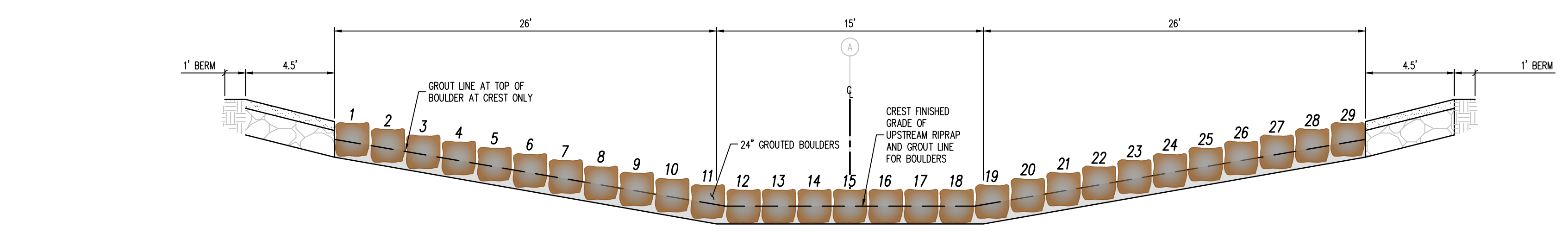
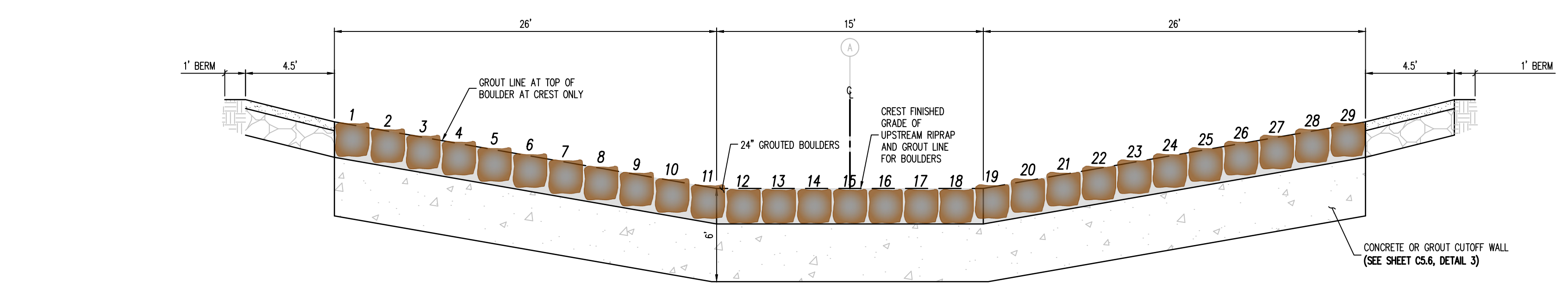
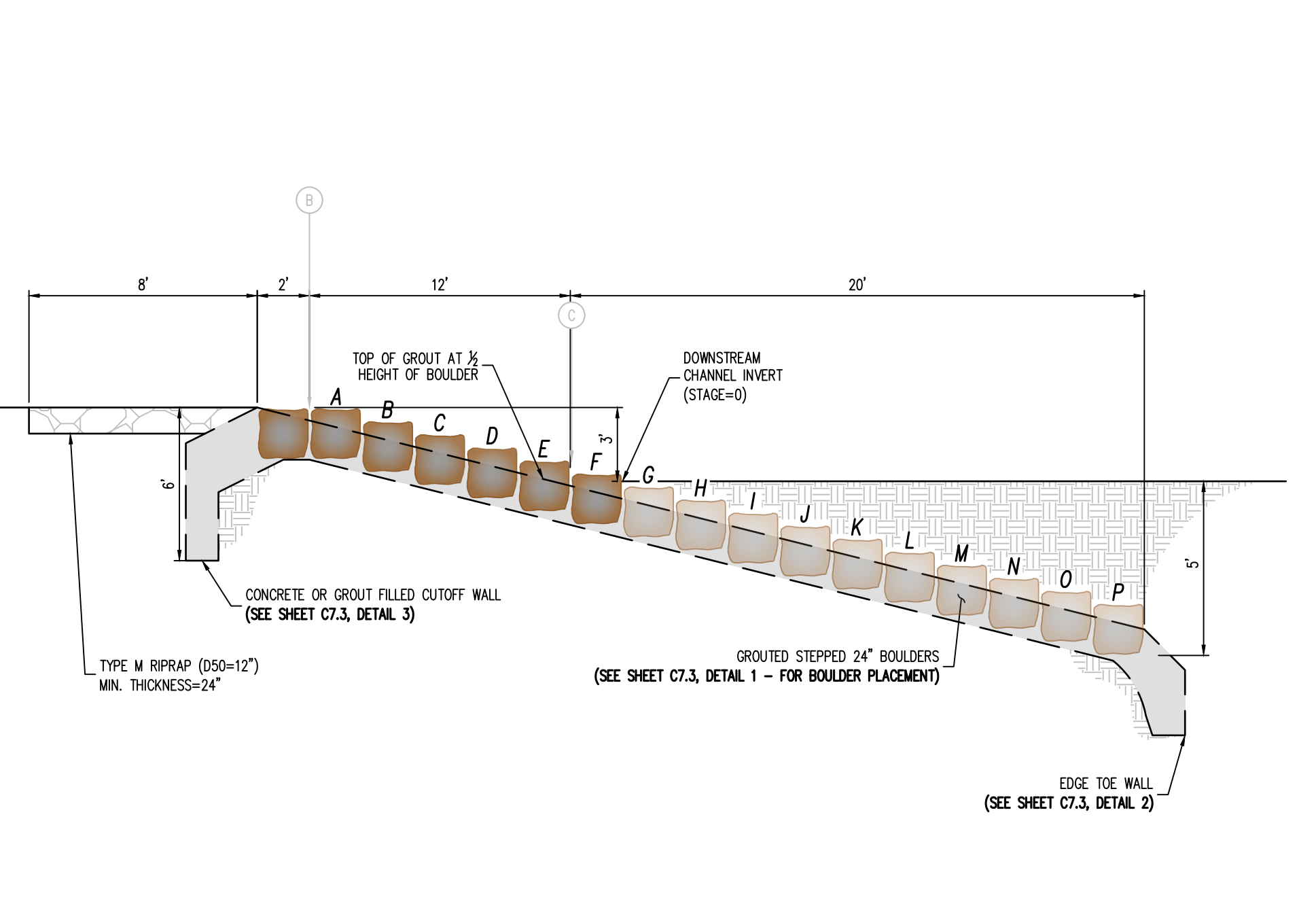
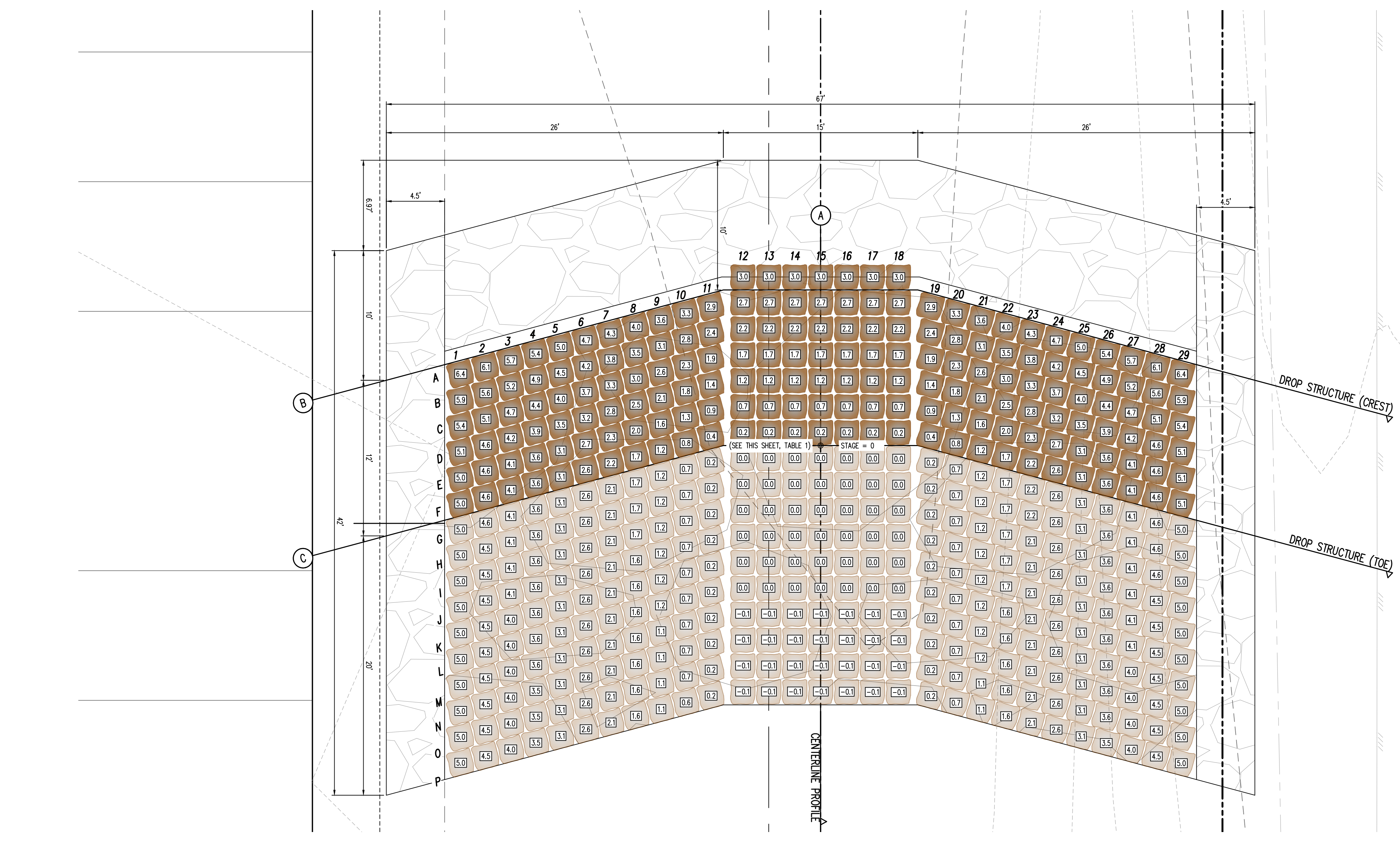


TABLE 1: DROP STRUCTURE STAGE ELEVATIONS

DROP STRUCTURE #2	6913.85
DROP STRUCTURE #3	6910.24
NOTE: STAGE=0 IS LOCATED AT THE TOE OF CHANNEL ALONG THE CENTER LINE ALIGNMENT. CONTRACTOR SHALL ENSURE ELEVATIONS ABOVE MATCH THE ELEVATIONS SHOWN ON PLAN & PROFILE SHEETS (06.1)	

- NOTES:**
- PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
 - BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLIDING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.
 - DUE TO VARIABILITY IN BOULDER SIZES, THE LAYOUT PROVIDED ON THIS DETAIL MAY NOT MATCH THE COMPLETED LAYOUT IN CONSTRUCTION.
 - REFER TO SHEET C7.3 FOR ADDITIONAL GROUTED BOULDER PLACEMENT NOTES AND SPECIFICATIONS.

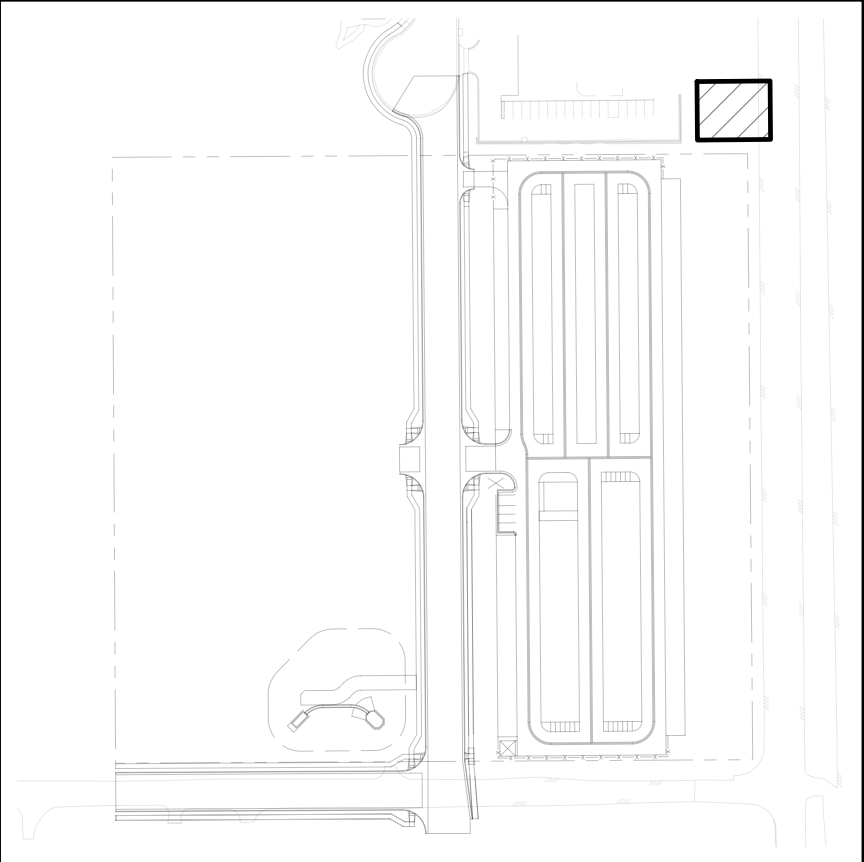




#	Date	Issue / Description	Init.

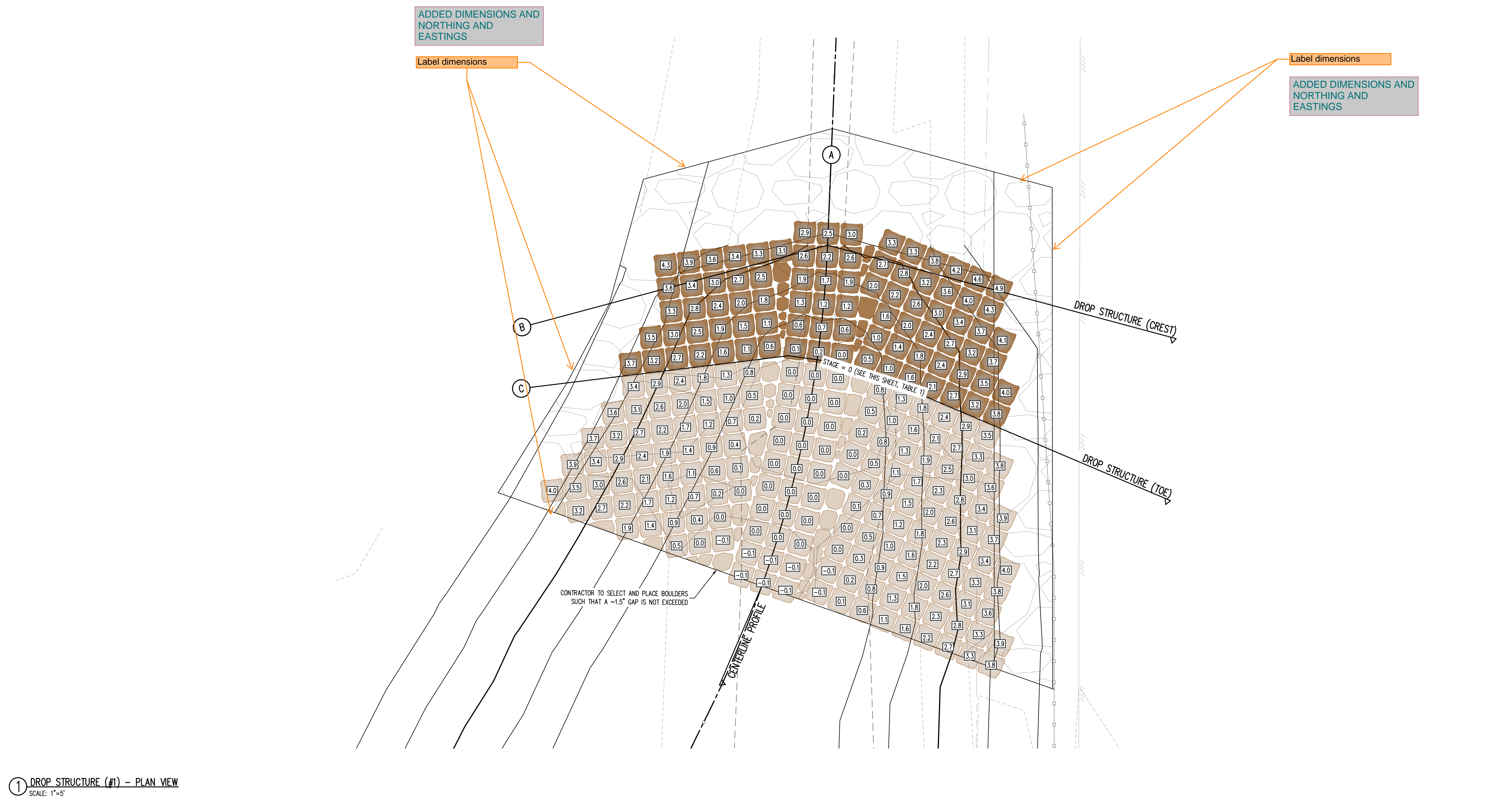
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

DROP STRUCTURE 1
 DETAILS

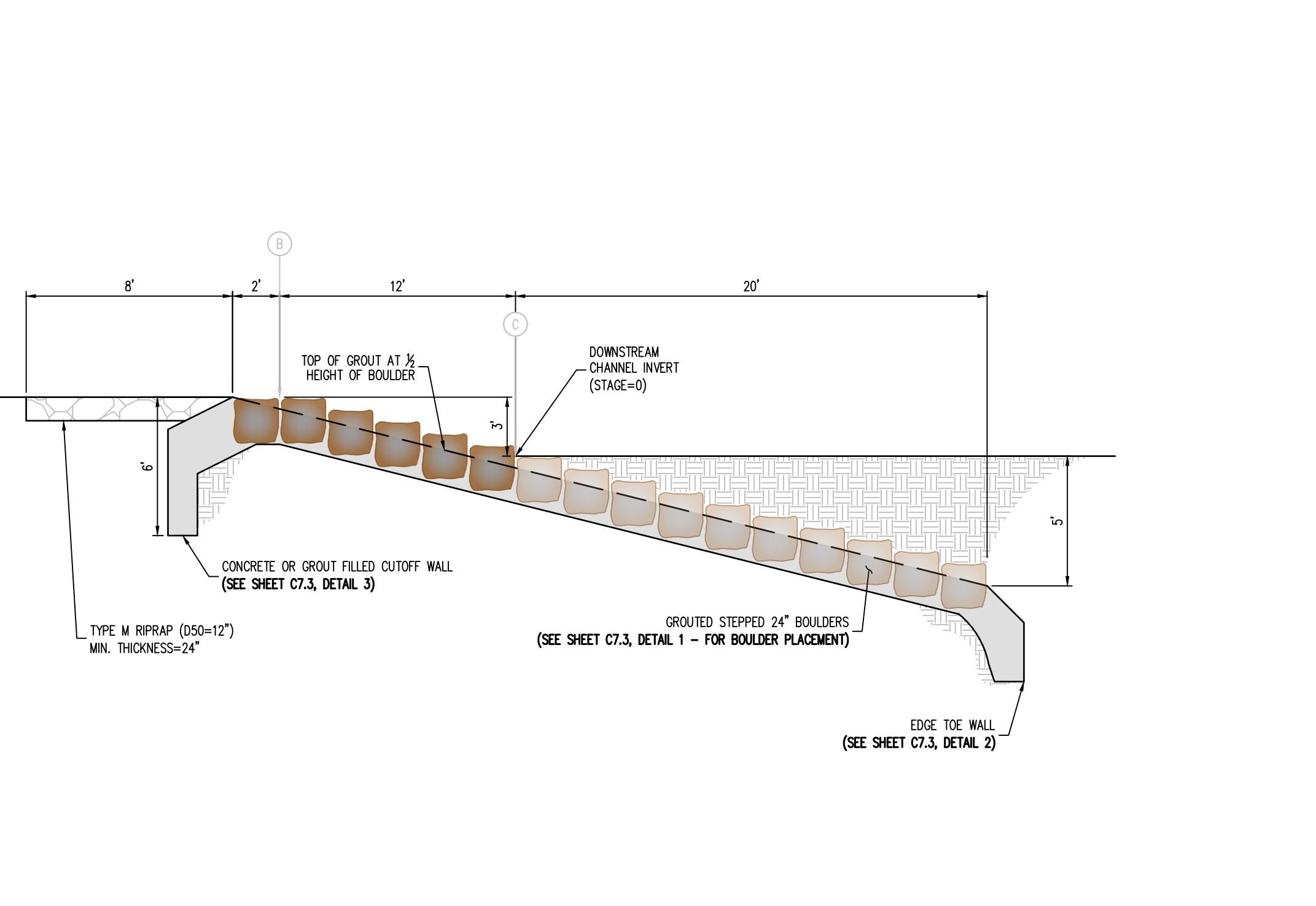


DROP STRUCTURE #1	6917.16
NOTE: STAGE=0 IS LOCATED AT THE TOE OF CHANNEL ALONG THE CENTER LINE ALIGNMENT. CONTRACTOR SHALL ENSURE ELEVATIONS ABOVE MATCH THE ELEVATIONS SHOWN ON PLAN & PROFILE SHEETS (C4.1-C4.4)	

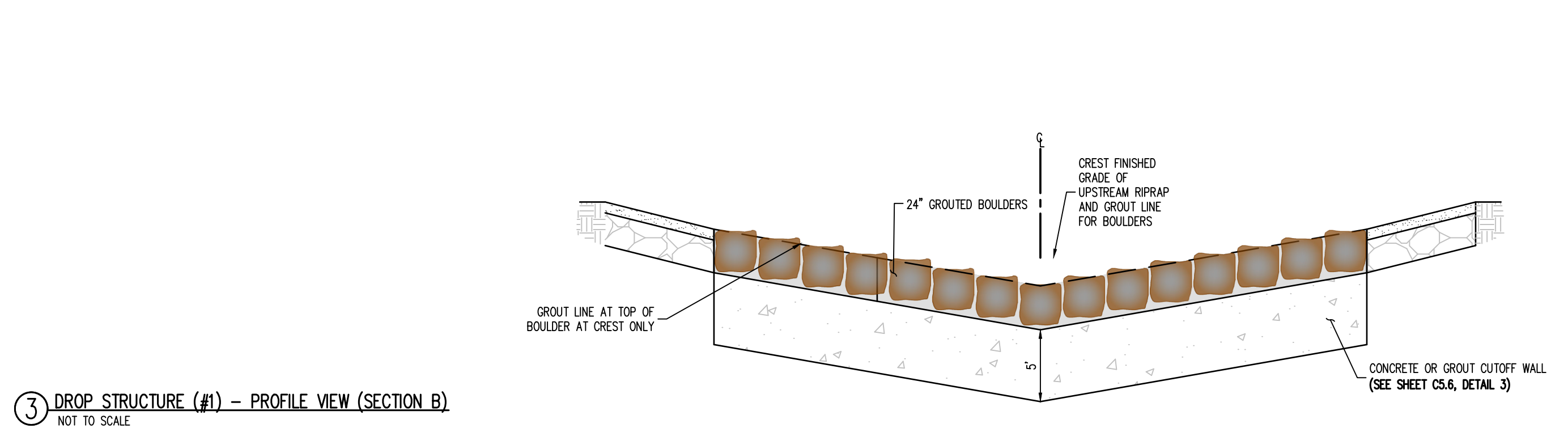
- NOTES:**
1. PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
 2. BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLOGGING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.
 3. DUE TO VARIABILITY IN BOULDER SIZES, THE LAYOUT PROVIDED ON THIS DETAIL MAY NOT MATCH THE COMPLETED LAYOUT IN CONSTRUCTION.
 4. REFER TO SHEET C5.6 FOR ADDITIONAL GROUTED BOULDER PLACEMENT NOTES AND SPECIFICATIONS.



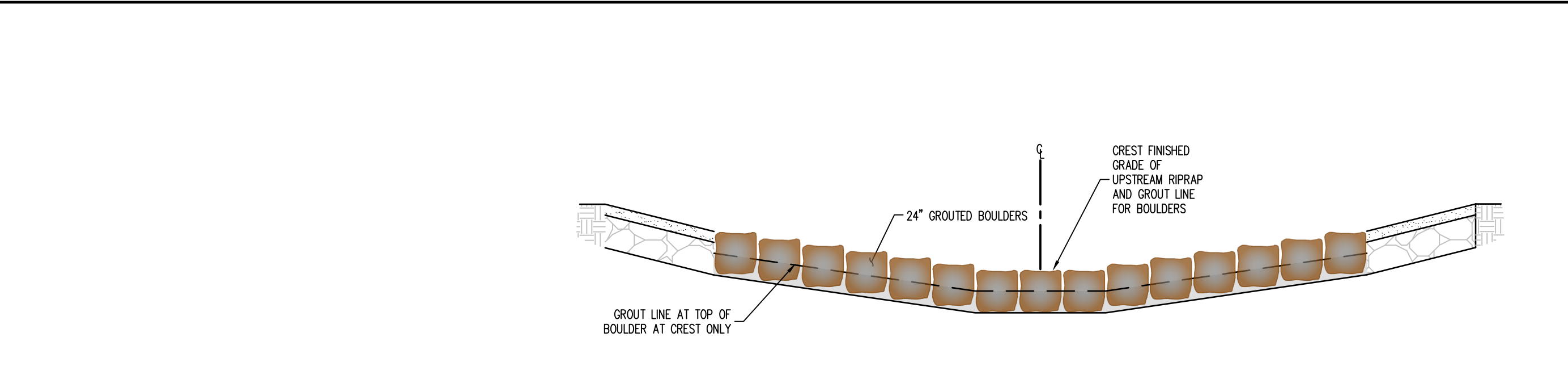
1 DROP STRUCTURE (#1) - PLAN VIEW
 SCALE: 1"=5'



2 DROP STRUCTURE (#1) - PROFILE VIEW (SECTION A)
 NOT TO SCALE



3 DROP STRUCTURE (#1) - PROFILE VIEW (SECTION B)
 NOT TO SCALE



4 DROP STRUCTURE (#1) - PROFILE VIEW (SECTION C)
 NOT TO SCALE

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

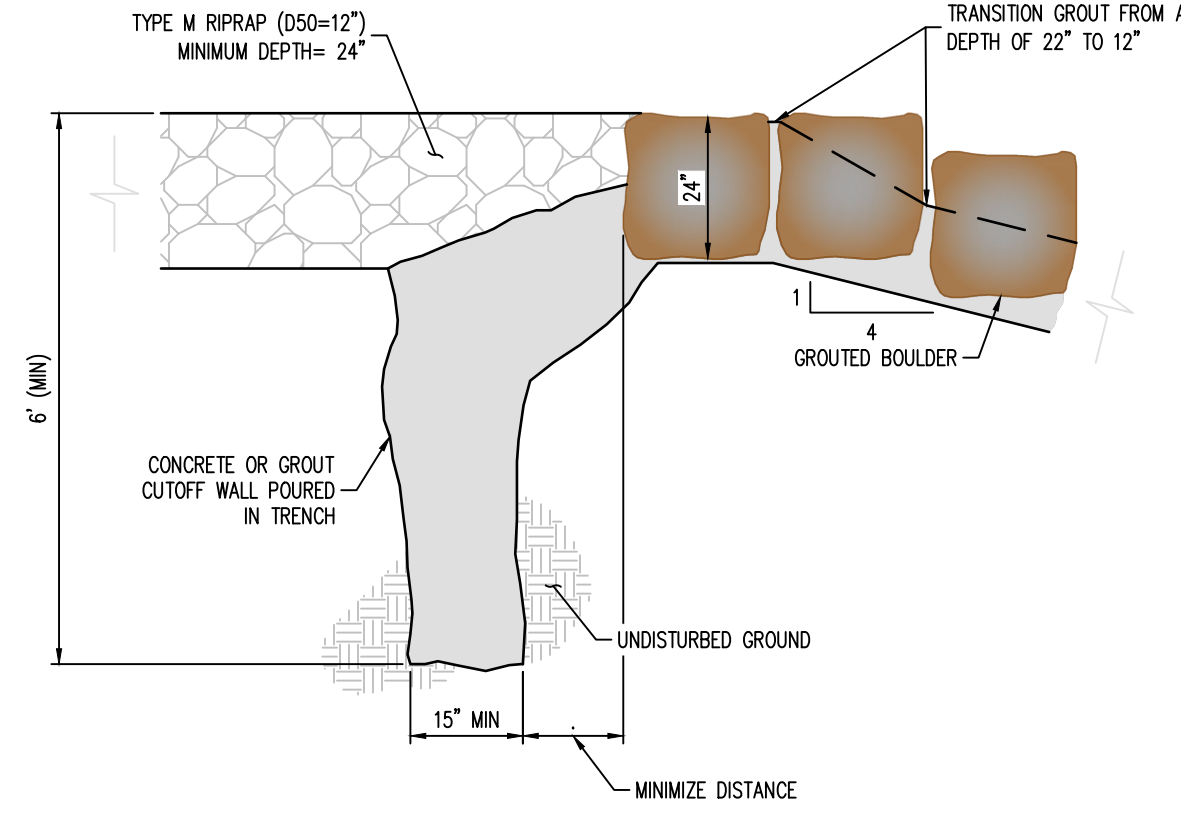
#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

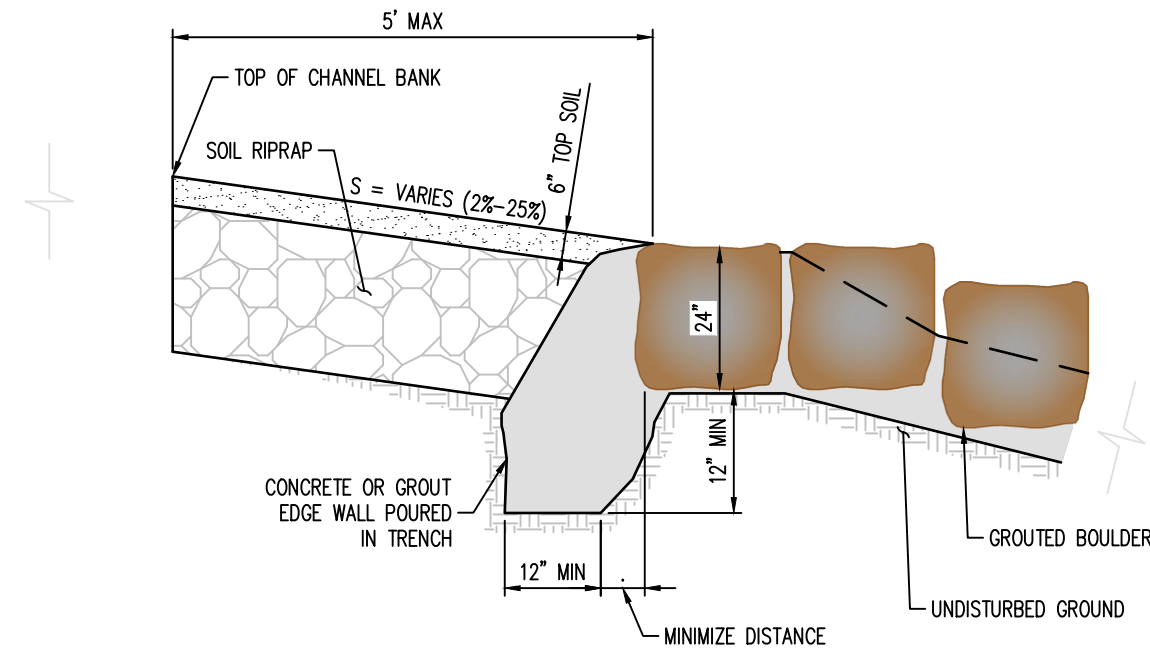
DROP STRUCTURE
GENERAL DETAILS

SOIL RIPRAP SPECIFICATIONS:

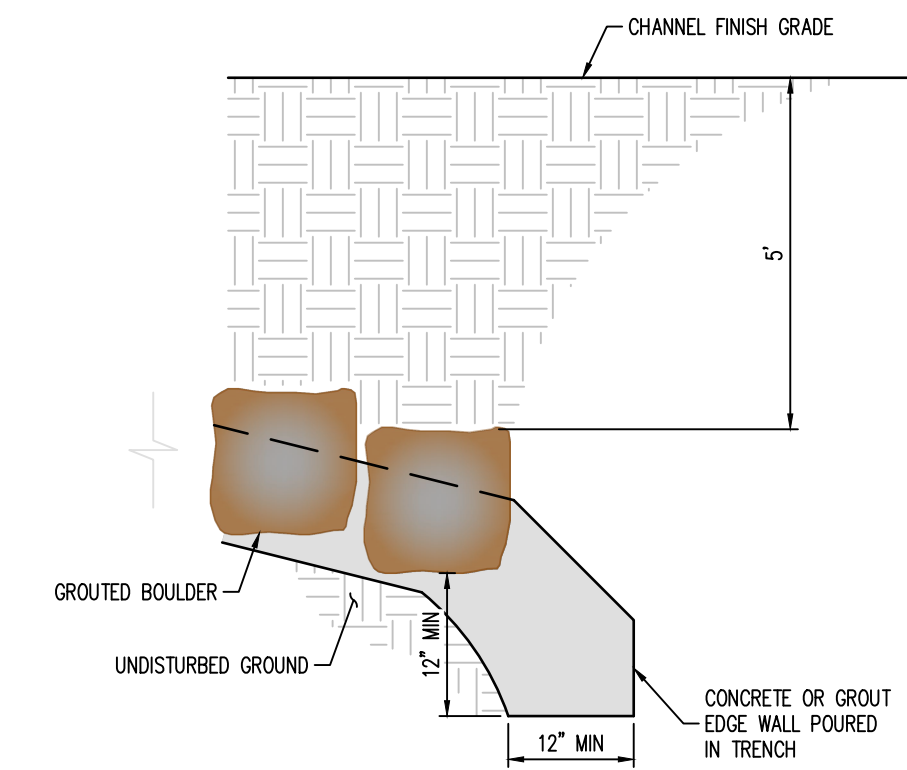
- CONTRACTOR SHALL EXCAVATE AREAS TO RECEIVE SOIL RIPRAP TO THE SPECIFIED DEPTH.
- SUBGRADE SHOULD BE COMPACTED TO NINETY-FIVE PERCENT (95%) MAXIMUM DENSITY.
- NO BEDDING MATERIAL IS REQUIRED FOR SOIL RIPRAP.
- RIPRAP SHALL BE PLACED ON THE PREPARED SLOPE OR CHANNEL BOTTOM AREAS IN A MANNER WHICH WILL PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICABLE PERCENTAGE OF VOIDS.
- RIPRAP SHALL BE MACHINE PLACED.
- IT IS THE INTENT OF THESE SPECIFICATIONS TO PRODUCE A FAIRLY COMPACT RIPRAP PROTECTION IN WHICH ALL SIZES OF MATERIAL ARE PLACED IN THEIR PROPER PROPORTIONS.
- WHEN RIPRAP IS PLACED ON SLOPE, PLACEMENT SHALL COMMENCE AT THE BOTTOM OF THE SLOPE WORKING UP THE SLOPE.
- ALL MATERIAL USED FOR RIPRAP PROTECTION FOR CHANNEL SLOPE OR BOTTOM SHALL BE PLACED AND DISTRIBUTED SUCH THAT THERE SHALL BE NO LARGE ACCUMULATIONS OF EITHER THE LARGER OR SMALLER SIZES OF STONE. SOME HAND PLACEMENT MAY BE REQUIRED TO ACHIEVE THIS DISTRIBUTION.
- SMALLER ROCK SHALL BE SECURELY LOCKED BETWEEN THE LARGER STONE. IT IS ESSENTIAL THAT THE MATERIAL BETWEEN THE LARGER STONES NOT BE LOOSE OR EASILY DISPLACED BY FLOW.
- THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH SIXTY-FIVE PERCENT (65%) RIPRAP AND THIRTY-FIVE PERCENT (35%) SOIL BY VOLUME.
- SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.
- SOIL RIPRAP SHALL BE FREE OF BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL AND BE GRADED TO A SMOOTH COMPACTED SURFACE.
- MIXING OF SOIL AND RIPRAP SHOULD BE DONE AT THE STOCKPILE LOCATION, NOT AT THE LOCATION WHERE SOIL RIPRAP IS TO BE PLACED.
- MIX THIRTY-FIVE PERCENT (35%) SOIL BY VOLUME WITH STOCKPILED RIPRAP USING ADDITIONAL MOISTURE AND CONTROL PROCEDURES THAT ENSURE A HOMOGENEOUS MIXTURE WHERE THE SOIL FILLS THE INHERENT VOIDS IN THE RIPRAP WITHOUT DISPLACING RIPRAP. LAYERING THE RIPRAP AND SOIL INSTEAD OF PREMIXING MAY BE ALLOWED IF THE NATIVE SOIL IS GRANULAR.
- PLACE A FIRST LAYER OF SMALLER SOIL RIPRAP OF APPROXIMATE D50 THICKNESS. THEN PLACE THE TOP LAYER WITH THE SURFACE ROCKS THAT ARE LARGELY D50 OR GREATER. FILLING VOIDS AS NECESSARY WITH THE SMALLER PLANTED RIPRAP.
- THE MIXTURE SHALL BE CONSOLIDATED BY LARGE VIBRATORY EQUIPMENT OR BACKHOE BUCKET TO CREATE A TIGHT, DENSE INTERLOCKING MASS.
- THE SOIL SHALL BE FURTHER WETTED TO ENCOURAGE VOID FILLING WITH SOIL. ANY LARGE VOIDS SHALL BE FILLED WITH ROCK AND SMALL VOIDS FILLED WITH SOIL.
- THE TOP SURFACE SHALL BE COVERED WITH FOUR (4) INCHES OF TOPSOIL SUCH THAT NO ROCK POINTS ARE PROTRUDING.
- THE FINAL SURFACE SHALL BE THOROUGHLY WETTED FOR GOOD COMPACTION, SMOOTHED AND COMPACTED BY VIBRATING EQUIPMENT.



3 CUT-OFF WALL DETAIL
 NOT TO SCALE

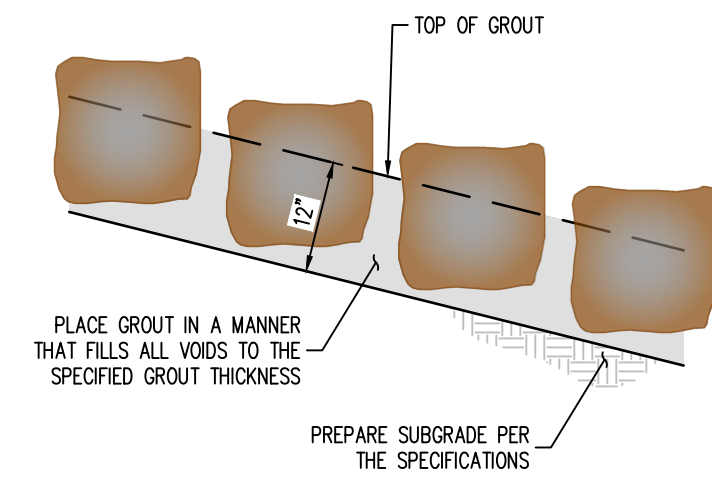


EDGE SIDE WALL DETAIL



EDGE TOE WALL DETAIL

2 EDGE WALL DETAIL
 NOT TO SCALE



1 GROUDED BOULDER PLACEMENT DETAIL
 NOT TO SCALE

BOULDER PLACEMENT NOTES:

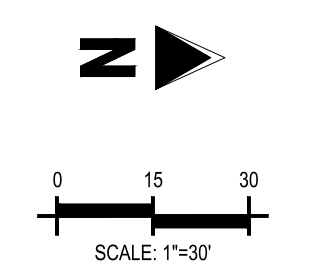
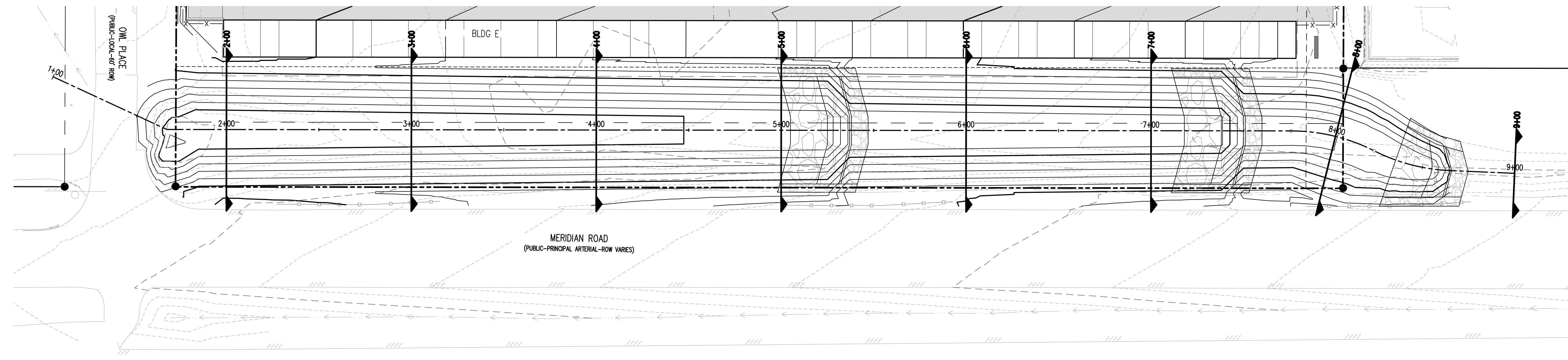
- PLACE BOULDERS WITH THE REQUIRED BOULDER HEIGHT VERTICAL. PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
- BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLIDING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.

MATERIAL SPECIFICATIONS:

- ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
- ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
- A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
- THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/8" ROCK (COARSE).
- THE GROUT SLUMP SHALL BE BETWEEN 4-INCHES TO 6-INCHES.
- AIR ENTRAINMENT SHALL BE BETWEEN 5.5% AND 7.5%.
- TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.
- COLOR ADDITIVE IN REQUIRED AMOUNTS SHALL BE USED WHEN SO SPECIFIED BY CONTRACT.

GROUT PLACEMENT SPECIFICATIONS:

- SPECIAL PROCEDURES SHALL BE REQUIRED FOR GROUT PLACEMENT WHEN THE AIR TEMPERATURES ARE LESS THAN 40°F OR GREATER THAN 90°F. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER OF THE PROCEDURES TO BE USED FOR PROTECTING THE GROUT.
- GROUT SHALL BE DELIVERED BY MEANS OF A LOW PRESSURE (LESS THAN 10 PSI) GROUT PUMP USING A 2-INCH DIAMETER (MAXIMUM) NOZZLE.
- FULL DEPTH PENETRATION OF THE GROUT INTO THE BOULDER VOIDS SHALL BE ACHIEVED BY INJECTING GROUT STARTING WITH THE NOZZLE NEAR THE BOTTOM AND RAISING IT AS THE GROUT FILLS. WHILE VIBRATING GROUT INTO PLACE USING A FENCIL VIBRATOR.
- ALL GROUT BETWEEN BOULDERS SHALL BE TREATED WITH A BROOM FINISH.
- AFTER GROUT PLACEMENT, EXPOSED BOULDER FACES SHALL BE CLEANED AND FREE OF GROUT.
- ALL FINISHED GROUT SURFACES SHALL BE SPRAYED WITH A CLEAR LIQUID MEMBRANE CURING COMPOUND AS SPECIFIED IN ASTM C309.

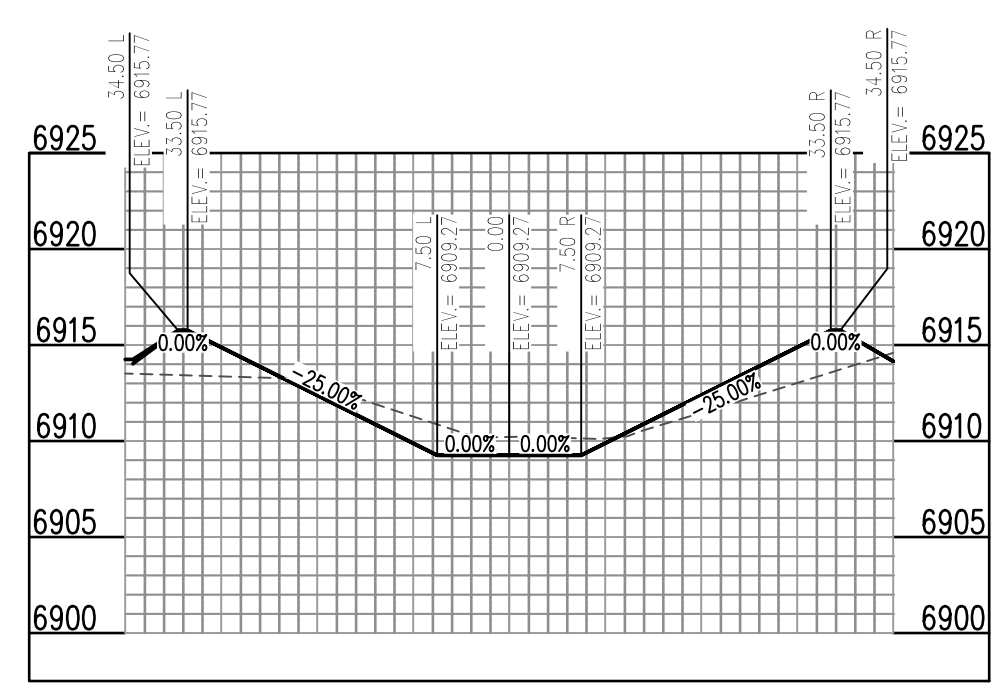


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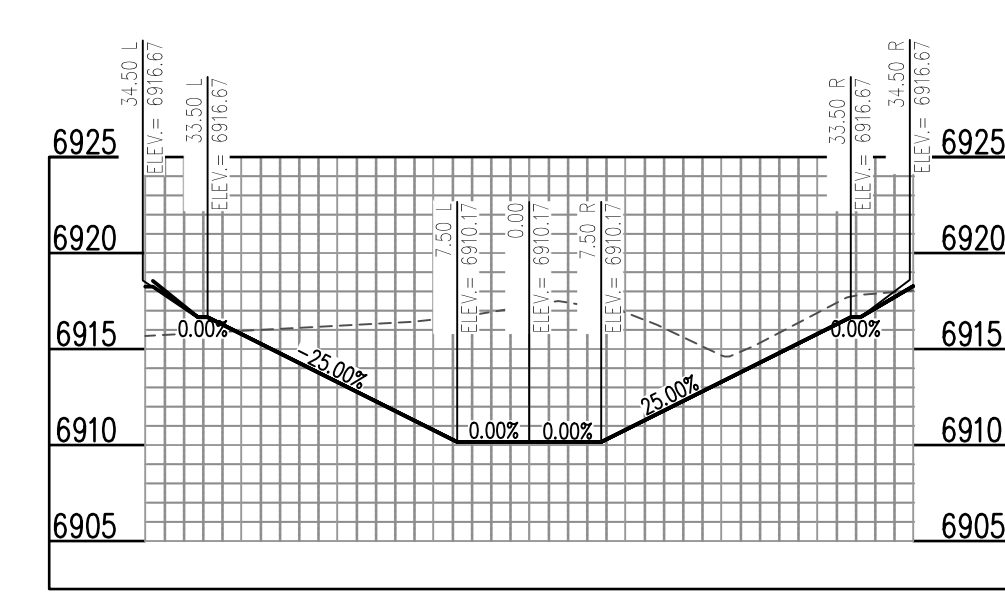


CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

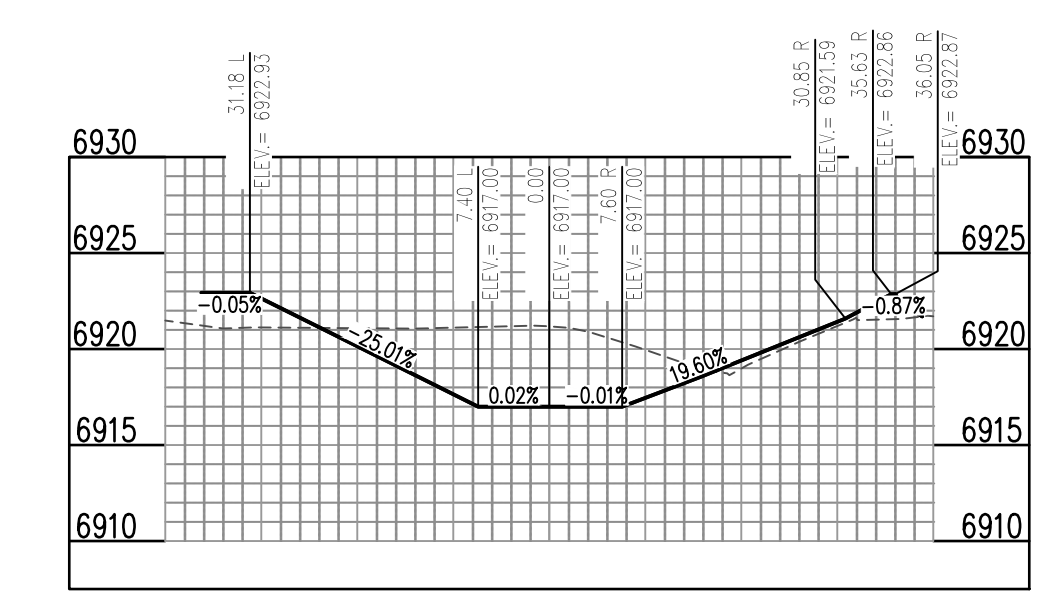
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931



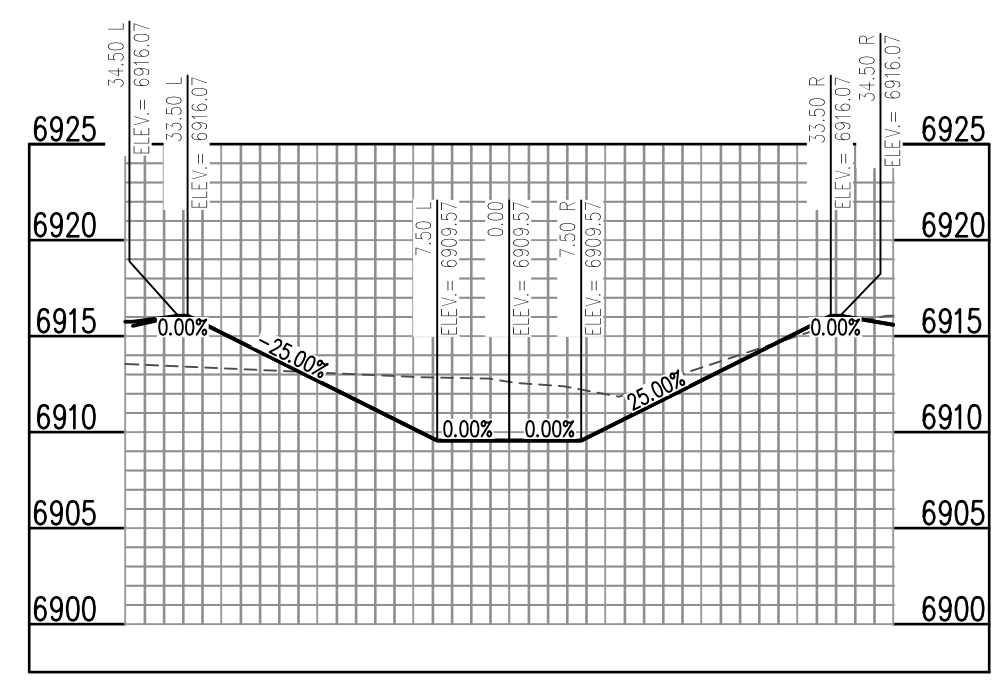
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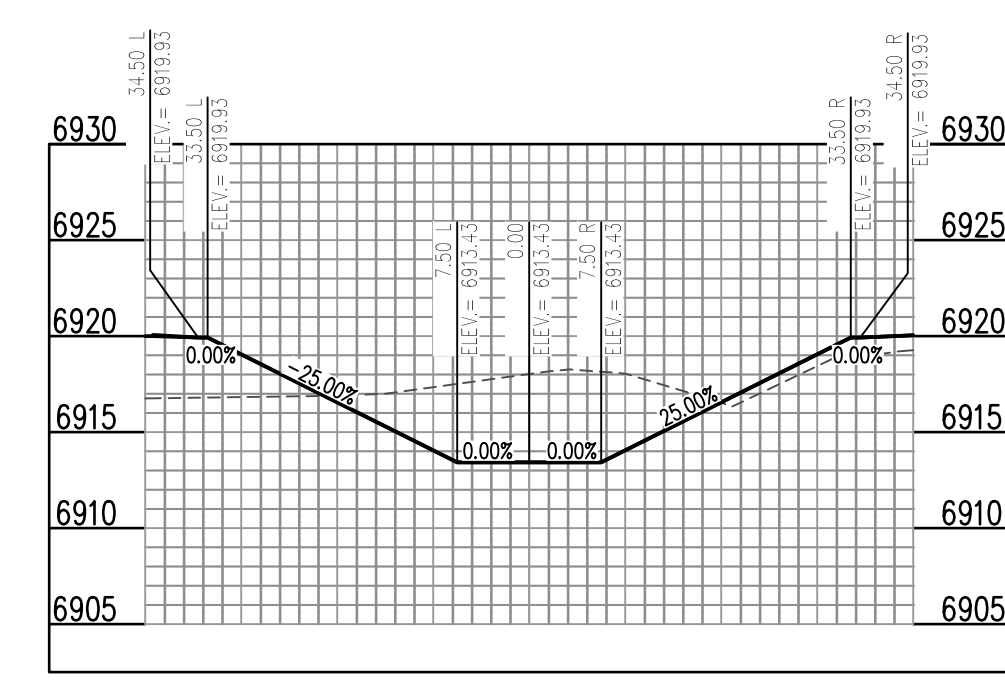
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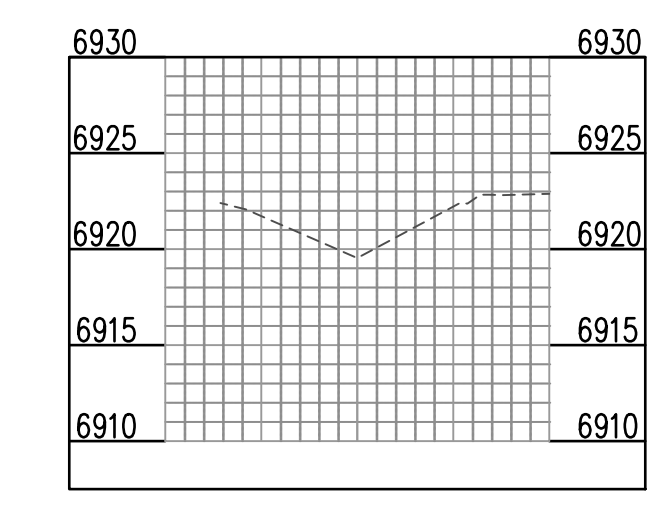
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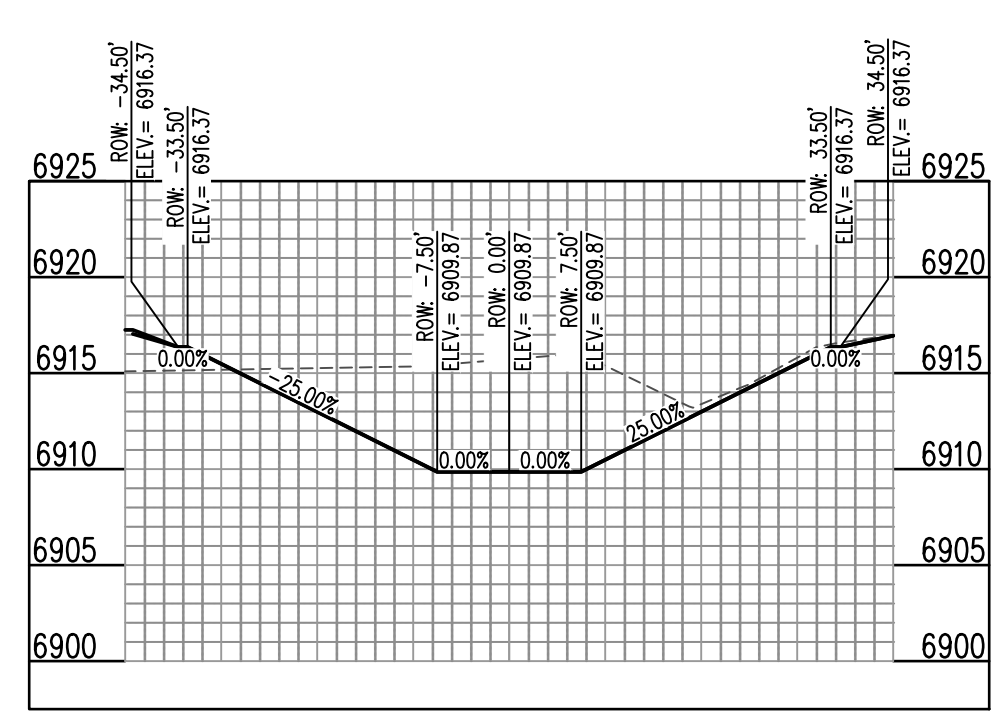
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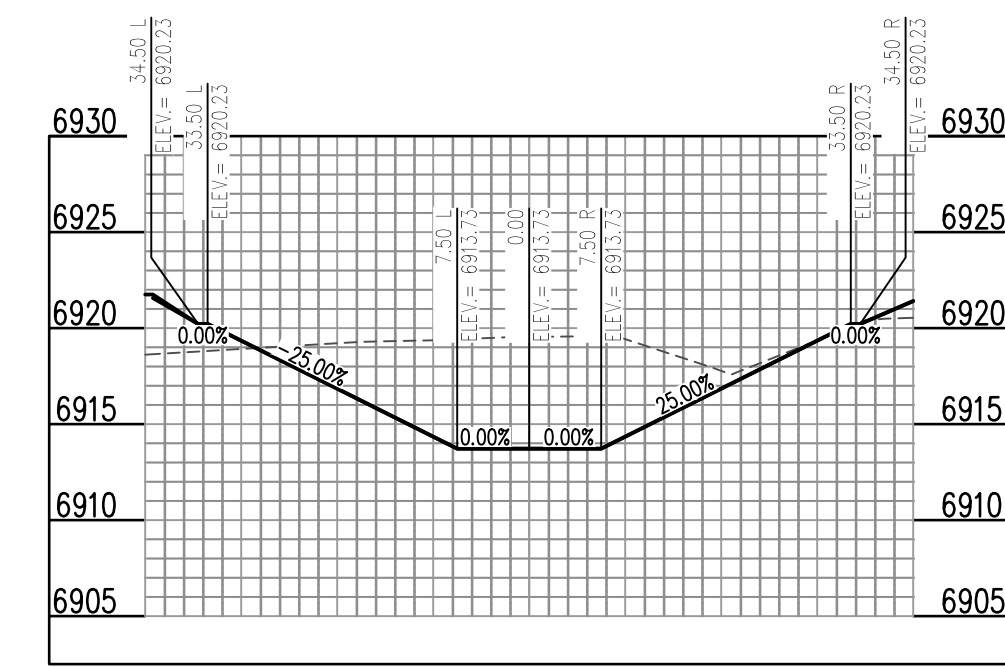
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PROP. MERIDIAN ROAD CHANNEL (RMT064) (9+00) - SCALE: H: 1"=20' V: 1"=10'



PROP. MERIDIAN ROAD CHANNEL (RMT064) (4+00) - SCALE: H: 1"=20' V: 1"=10'



PROP. MERIDIAN ROAD CHANNEL (RMT064) (7+00) - SCALE: H: 1"=20' V: 1"=10'

#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

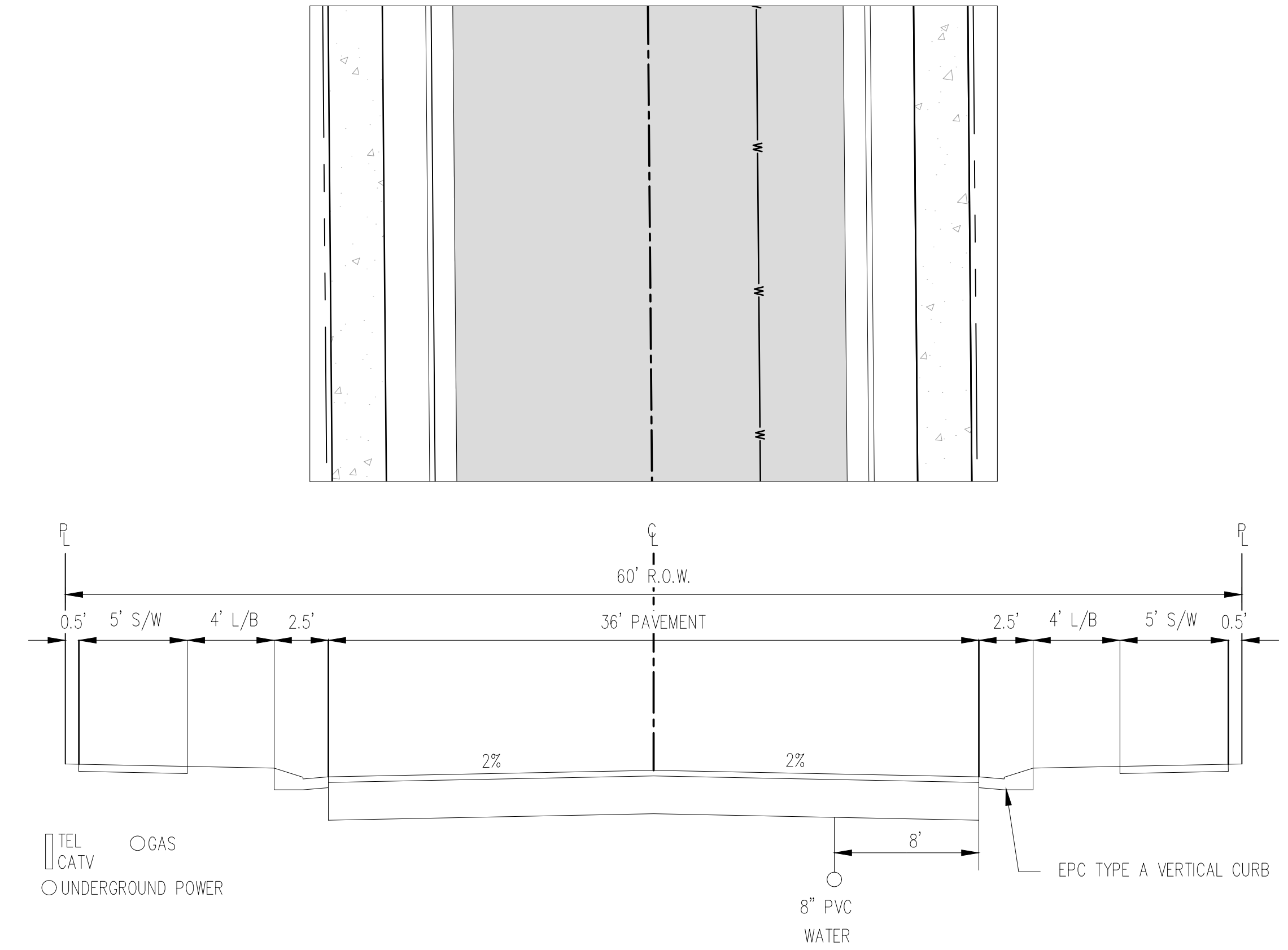
CHANNEL SECTIONS

Meridian Storage, LLC, 17 Pine County, MN, 55961 - 888.990.5555; 10245 S. Dwyer Ave., Suite 100, Falcon, CO 80931
 C8.1 - Channel Sections - JDM - 10/23/23

GENERAL NOTES:

- 1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WOODMEN HILLS METROPOLITAN DISTRICT (WMHD, THE DISTRICT) SPECIFICATIONS.
2. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICTS ENGINEER. ANY REVISION TO THE PLANS SHALL BE SO NOTED WITH THE OLD DRAWING MARKED "NOT VALID".
3. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
5. ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.
6. ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN 'S' FOR SEWER AND A 'W' FOR WATER.
7. DUCTILE IRON PIPES, INCLUDING FITTINGS, VALVES AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
8. ALL DUCTILE IRON PIPE LESS THAN 12 INCHES AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE TWELVE INCHES (12") AND GREATER AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
9. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES AND THE GEOTECHNICAL ENGINEER.
10. COMPACTION TESTS SHALL BE BOR STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPROVED BY ANOTHER AGENCIES HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
11. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE DISTRICT SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE DISTRICT AND THE ENGINEER A REPORT OF THE FIELD VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.
12. ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.
13. BENDS, DEFLECTION, AND CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT TWENTY-FIVE FEET (25') INTERVALS ALONG CURVES TO ENSURE LOCATION OF PIPE LINE CONSTRUCTION.
14. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.
15. ALL UNUSED, SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE METROPOLITAN DISTRICT AS REQUESTED.
16. AT THE CONTRACTOR'S EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE CONTRACTOR AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
17. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE DISTRICT AND THE DISTRICT ENGINEER PRIOR TO EXECUTION.
18. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND OUTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
19. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE DISTRICT AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICT. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICTS OFFICE.
20. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEER AND ALL OTHER PARTIES AS DEMAED NECESSARY BY THE DISTRICT.
21. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN METROPOLITAN DISTRICT:
A) PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING IS REQUIRED. A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE DISTRICT TO SCHEDULE THE PRE-CONSTRUCTION MEETING. NO PRE-CONSTRUCTION MEETING CAN BE SCHEDULED BEFORE FOUR (4) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE DISTRICT.
B) THE CONTRACTOR IS REQUIRED TO NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
22. TESTING OF FACILITIES:
A) THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
B) ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS:
- TEST 100 % OF ALL LINES
- MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS).
C) ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS:
- ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING.
- ALL MANHOLES SHALL BE VACUUM TESTED WITH DISTRICT STAFF PRESENT PRIOR TO CCTV INSPECTION.
- SEWER MAINS TO BE PRESSURE TEST PRIOR TO CCTV INSPECTION
- ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
23. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT THE DISTRICT ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL SURFACE IMPROVEMENTS AND RESTORATION WITHIN 30 DAYS OF COMMENCEMENT OF SERVICE, THE DISTRICT, AT THEIR DISCRETION, MAY ELECT TO COMPLETE THE IMPROVEMENTS AT THE CONTRACTOR'S COST.
24. FINAL ACCEPTANCE BY THE DISTRICT OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.
25. ACCEPTANCE:
A) THE DISTRICT MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE LINES HAVE BEEN COMPLETED AND A WALK-THRU HAS OCCURRED.
B) A SECOND ACCEPTANCE MAY OCCUR ONCE FIRST LIFT OF ASPHALT GOES DOWN AND A SECOND WALK-THROUGH OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE DISTRICT MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).
26. ALL WATER AND SEWER MAINS, INCLUDING SERVICE LINES, SHALL HAVE "AS-BUILT" DRAWINGS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.
27. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT-INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARBONITE MARKER ALONG WITH TRACER WIRE.
28. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES AND/OR SERVICES, CONSTRUCTION MUST HAVE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.
29. INSPECTION FEES: CALL THE DISTRICT (719-495-2500) FOR FEE SCHEDULE.
WATER SYSTEM INSTALLATION NOTES
30. ALL WATER AND FORCE MAIN PIPE SHALL BE ANNA 6900 PVC, OR EQUAL, PRESSURE CLASS 200. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF FIVE-AND-ONE-HALF (5.5) FEET.
31. ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARBONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARBONITE MARKERS AS APPLICABLE.
32. THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB-OUTS FOR FUTURE DEVELOPMENT. ANY REQUIRED REALIGNMENT, HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY.
33. FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8" X 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: GREASE. ACCEPTABLE BRAND IS KENNEDY GUARDIAN (KBID, KBIA, AND KBIAM). EACH FIRE HYDRANT LOCATION SHALL ALSO BE USED AS TEST STATION.
34. ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN 500 FT (VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
35. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE DISTRICT OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.
36. IRRIGATION SERVICES SHALL HAVE A STOP-AND-WASTE CURB STOP VALVE INSTALLED ALONG WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.
37. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
A) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAG-T TESTING, COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
B) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
C) ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.
WASTEWATER SYSTEM INSTALLATION NOTES
38. SANITARY SEWER LENGTHS ARE MH CENTER - MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR APPROVED EQUAL. SEWER LINES MAY NOT EXCEED 7% GRADE FOR ANY SIZE WITHOUT PRIOR APPROVAL OF THE DISTRICT. ALL NEWLY CONSTRUCTED RESIDENTIAL SANITARY SEWER TAPS SHALL USE PRE-MANUFACTURED, IN-LINE PVC PUSH-ON WYES. TAPPING SADDLES MAY ONLY BE USED FOR TAPPING PRE-EXISTING MAINS.
39. ALL SANITARY SEWER MANHOLES SHALL BE WRAPPED WITH RUI16 - RUBR-NEK JOINT WRAP, OR APPROVAL EQUAL, AND COATED.
40. COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:
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C) ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.
D) DOWNSTREAM PLUG CAN BE REMOVED ONCE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE MET.
THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.

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TYPICAL STREET SECTION - URBAN LOCAL ROADWAY N.T.S.

- STREET NAMES
1. MERIDIAN PARK DRIVE
2. OWL PLACE

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

Table with columns: #, Date, Issue / Description, Init. (Empty rows for tracking)

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: UTIL

NOTES

SITE LEGEND

- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100'YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARDRAIL
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER ECM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

UTILITY LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC LINE
- EXISTING FIBER OPTIC STRUCTURES
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRIC TRANSFORMER
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- PROPOSED WATER METER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE

NOTES

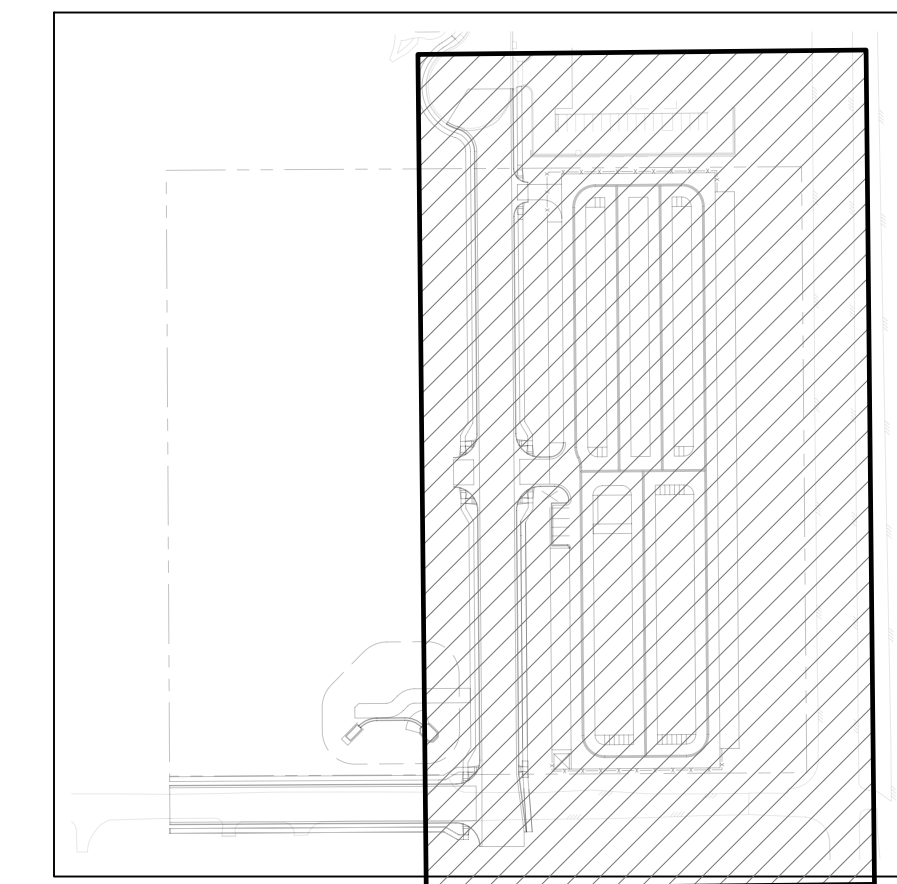
- ALL WATER MAINS SHALL BE NO CLOSER THAN FIVE FEET (5') TO EDGE OF CONCRETE CURB AND/OR GUTTER.
- WATER MAINS SHALL BE DESIGNED FOR A MINIMUM OF FIVE FEET SIX INCHES (5'-6") AND A MAXIMUM OF SIX FEET SIX INCHES (6'-6") OF COVER, EXCEPT WHERE ANOTHER UTILITY CAUSES A CONFLICT, IN WHICH CASE THE WATER MAIN SHALL BE LOWERED AS NECESSARY.
- CONTRACTOR TO READ AND BECOME FAMILIAR WITH THE WOODMEN HILLS METROPOLITAN DISTRICT WATER AND WASTE WATER SYSTEM STANDARD SPECIFICATIONS, CRITERIA MANUAL AND DETAILS PRIOR TO BEGINNING CONSTRUCTION.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT. PRIOR TO CONSTRUCTION, REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



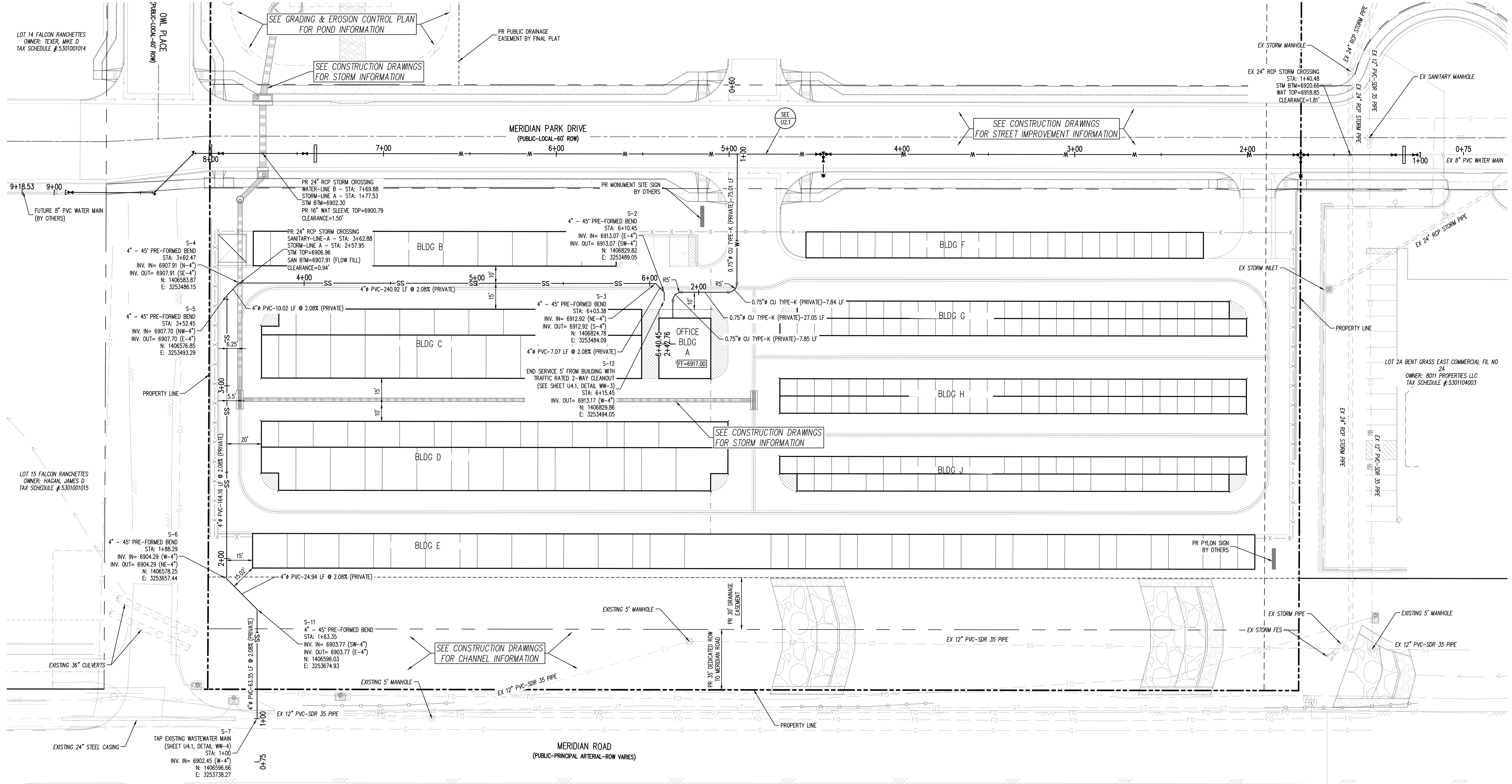
Know what's below. Call before you dig.



KEYMAP
SCALE: 1"=200'



SCALE: 1"=30'



Galloway
1155 Kelly Johnson Blvd., Suite 305
Colorado Springs, CO 80920
719.900.7220
GallowayUS.com

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: UTIL

UTILITY PLAN

U1.1
Sheet 3 of 8

SITE LEGEND

- PROJECT BOUNDARY LINE
ADJACENT PROPERTY BOUNDARY LINE
RIGHT OF WAY LINE
EXISTING ADJACENT LOT LINE
PROPOSED LOT LINE
EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE
PROPOSED ROAD CENTERLINE
EXISTING ROAD CENTERLINE
PROPOSED RIDGE LINE
PROPOSED SWALE LINE
EXISTING SWALE LINE
100-YR FLOODPLAIN BOUNDARY
EXISTING FENCE
PROPOSED FENCE
EXISTING GUARDRAIL
PROPOSED CURB AND GUTTER
EXISTING CURB AND GUTTER
EXISTING EDGE OF ASPHALT
PROPOSED SIDEWALK
PROPOSED TRAIL
RIPRAP OUTFALL PADS
EXISTING SIGN
PROPOSED SIGN
PROPOSED BOLLARDS

UTILITY LEGEND

- EXISTING WATER LINE
PROPOSED WATER LINE
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
EXISTING STORM SEWER
PROPOSED STORM SEWER
EXISTING GAS LINE
PROPOSED GAS LINE
EXISTING UNDERGROUND TELEPHONE
EXISTING OVERHEAD ELECTRIC
EXISTING FIBER OPTIC LINE
EXISTING FIBER OPTIC STRUCTURES
EXISTING TELEPHONE PEDESTAL
EXISTING ELECTRIC TRANSFORMER
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EXISTING STREET LIGHT
PROPOSED STREET LIGHT
PROPOSED WATER METER
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PROPOSED FIRE HYDRANT
EXISTING STORM SEWER MANHOLE
PROPOSED STORM SEWER MANHOLE
EXISTING SANITARY SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE

NOTES

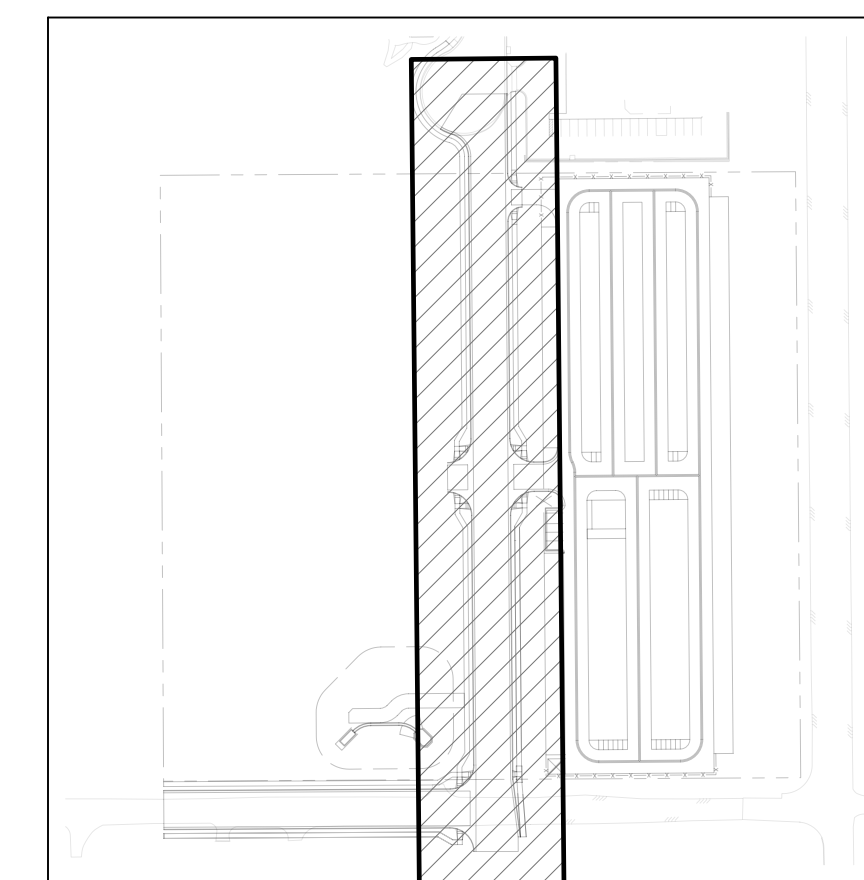
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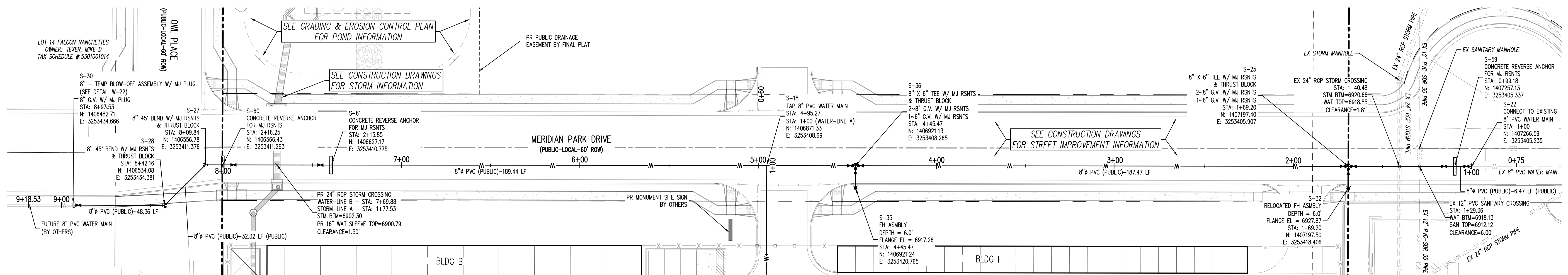
Know what's below. Call before you dig.



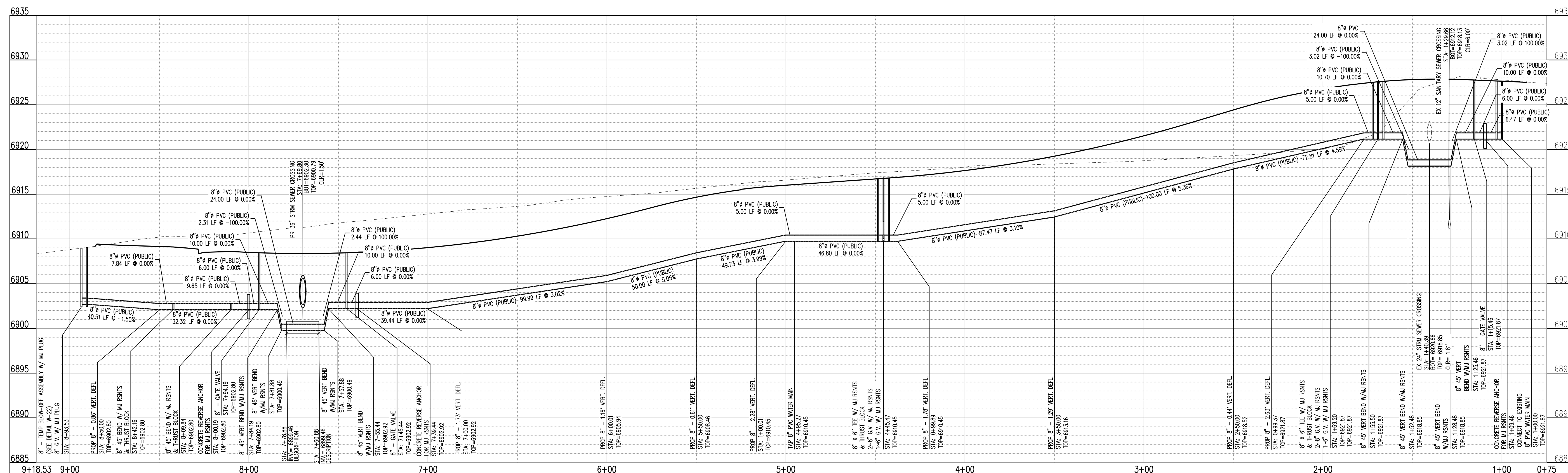
KEYMAP SCALE: 1"=200'



SCALE: 1"=30'



WATER-LINE B (STA: 0+75 - 9+18.53) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



WATER-LINE A (STA: 0+75 - 9+18.53) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



Revision table with columns: #, Date, Issue / Description, Init.

Project No: MRS01 Drawn By: JDM Checked By: CMWJ Date: UTIL

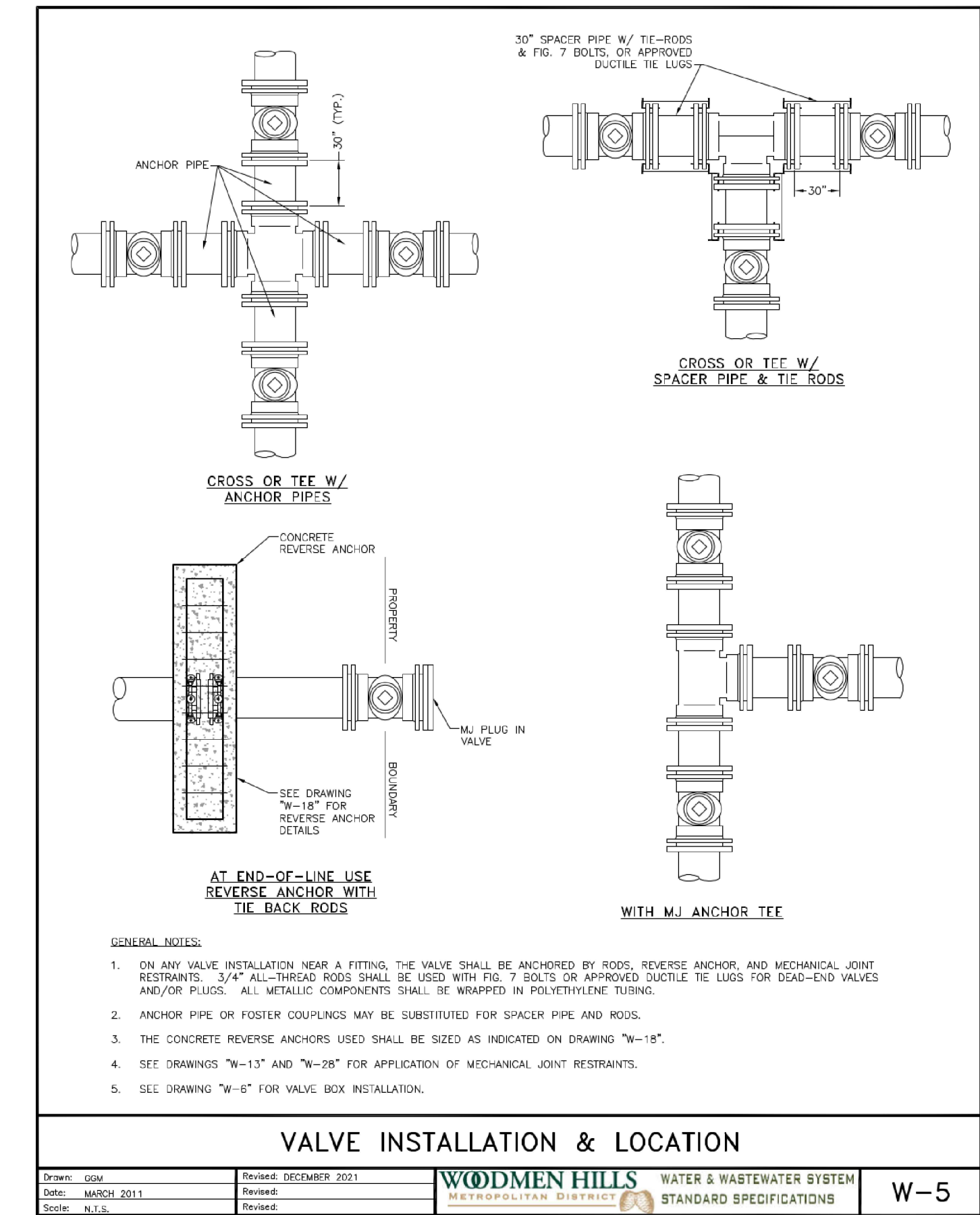
WATER P&P



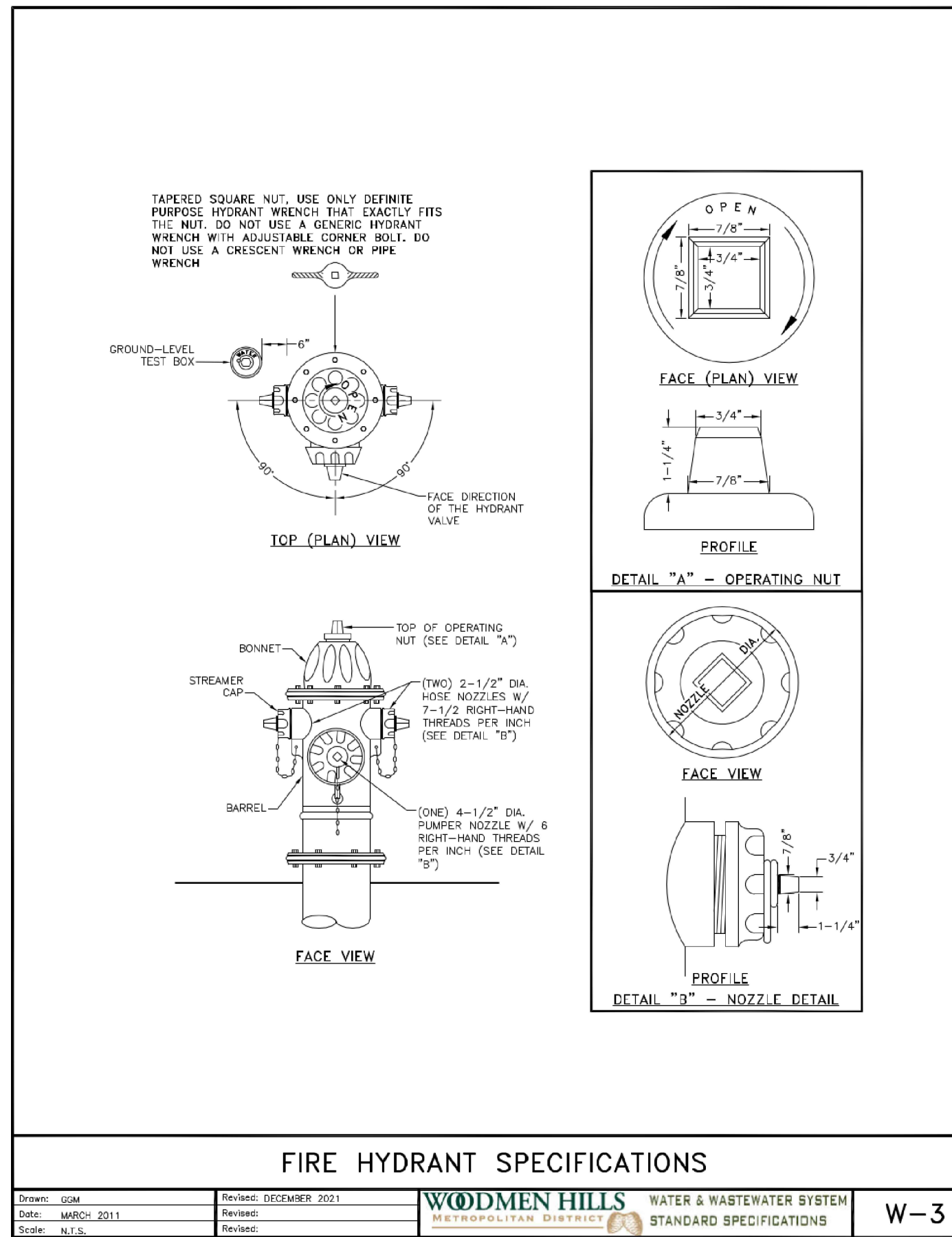
#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	UTIL

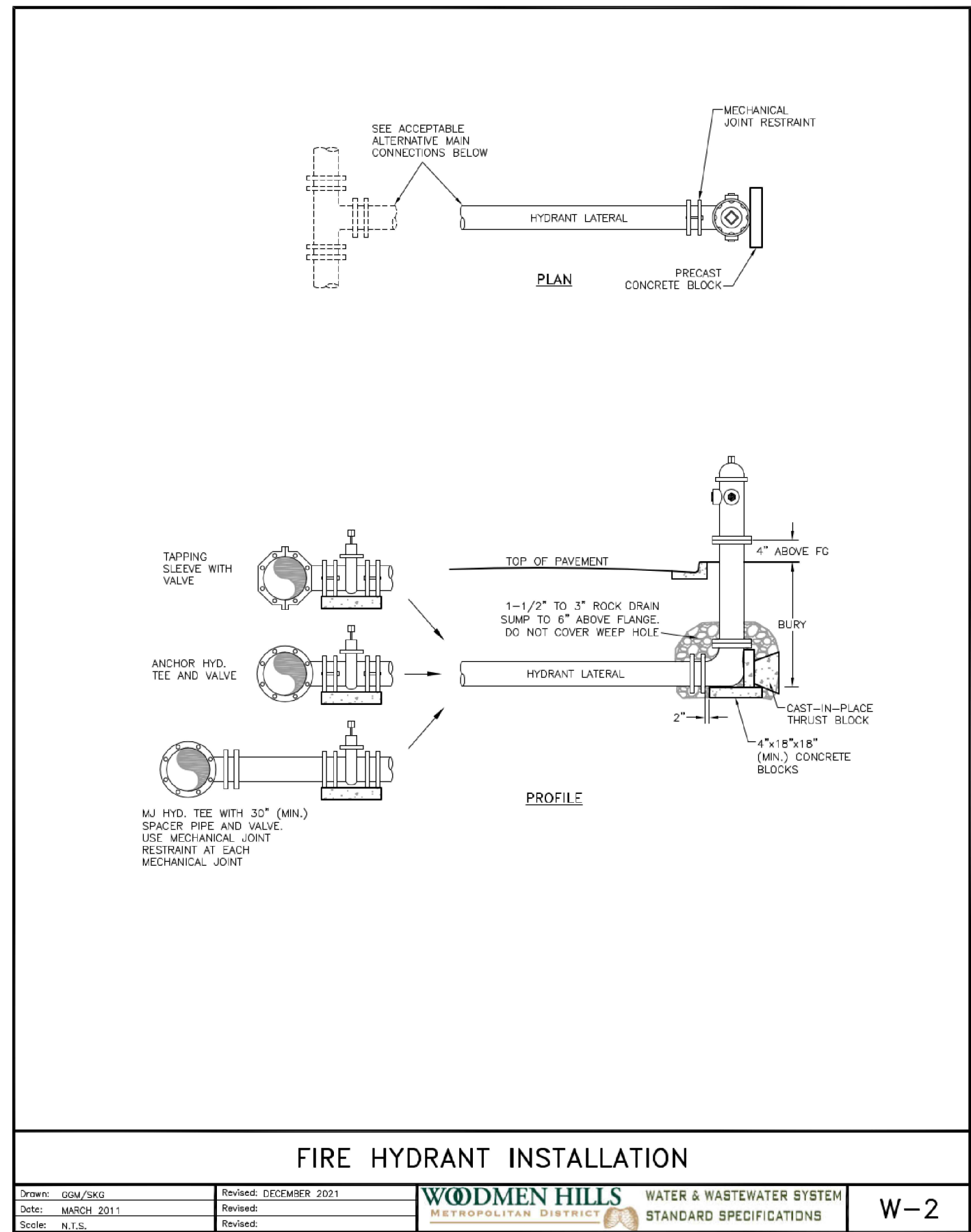
WATER DETAILS



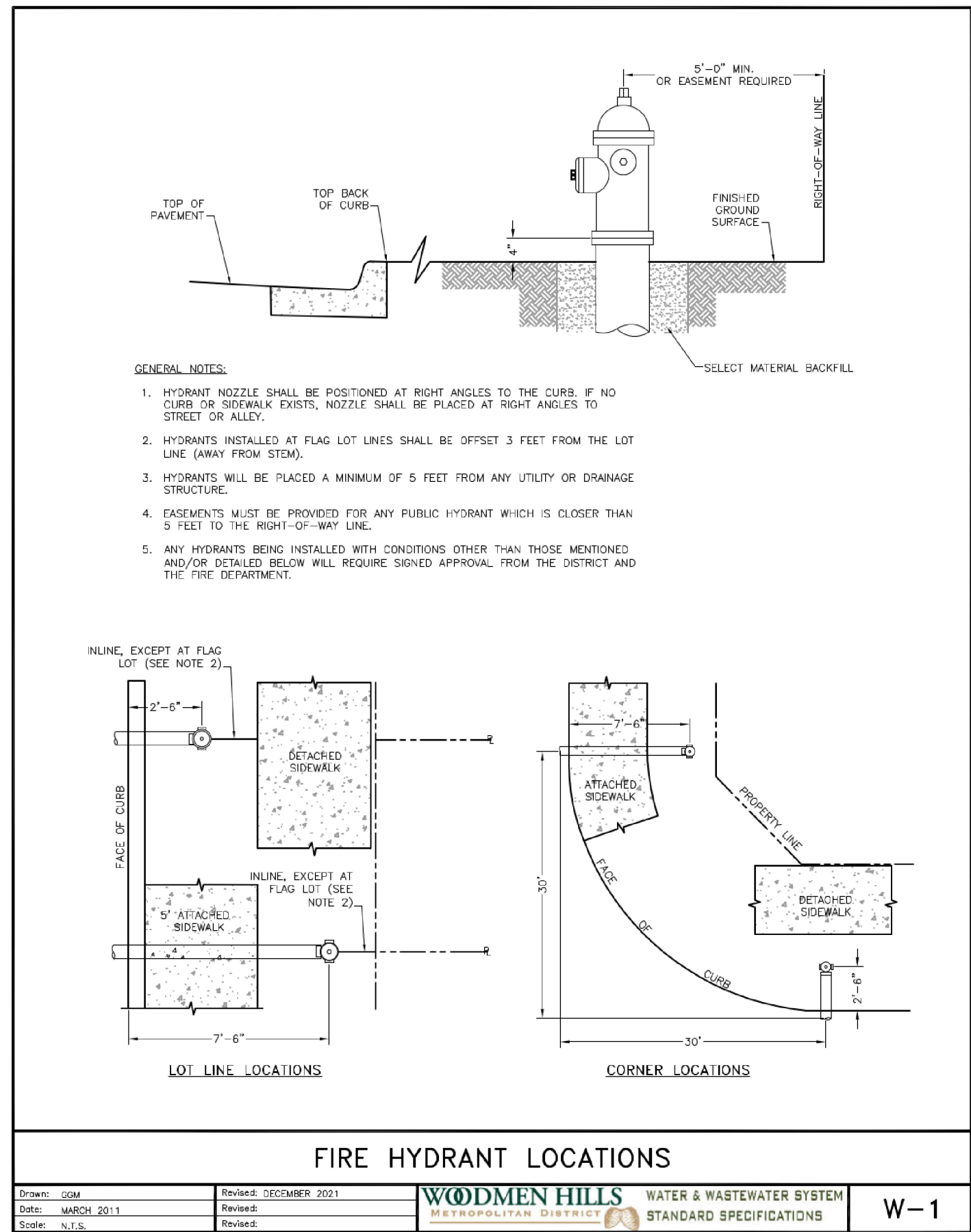
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Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-5



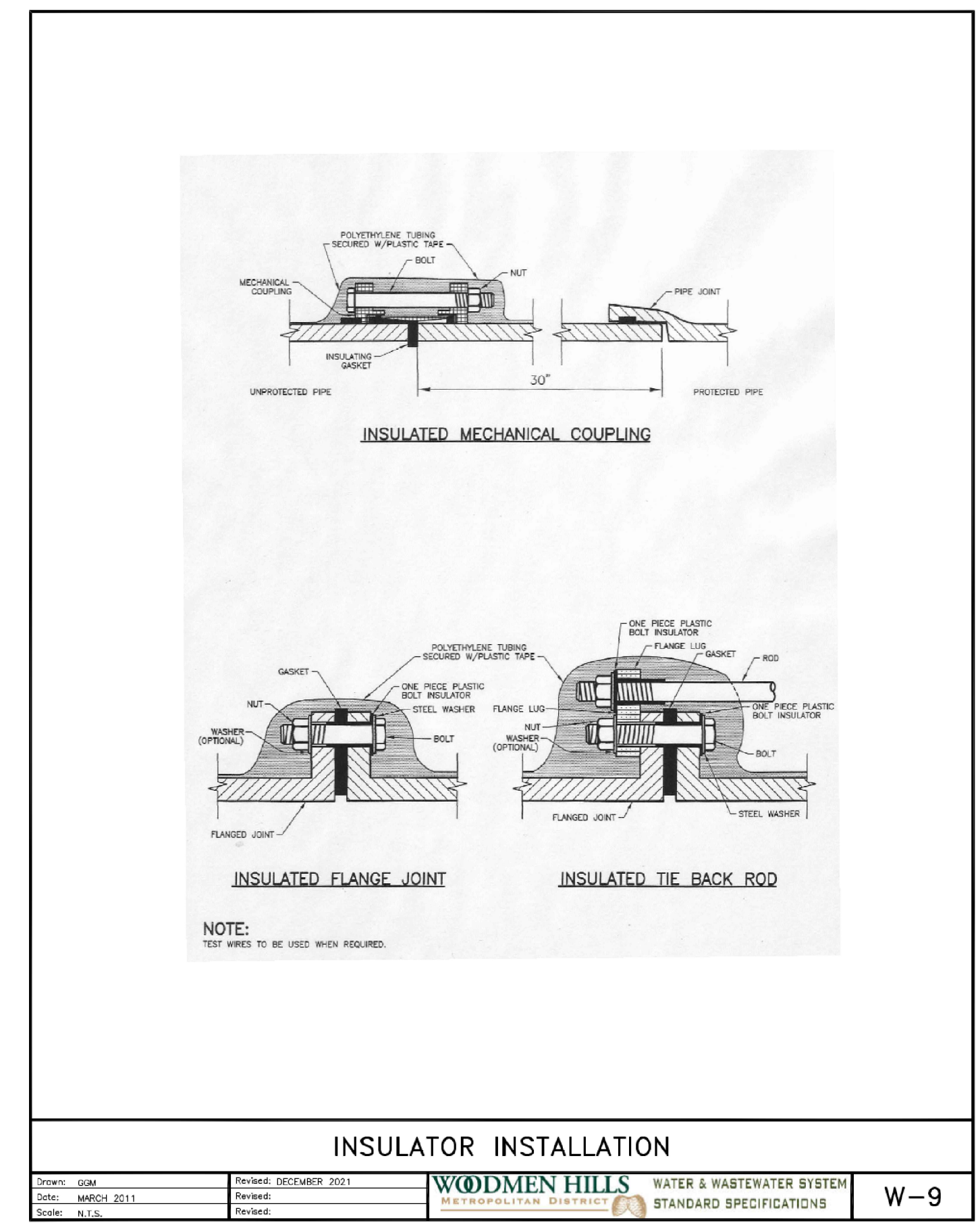
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Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-3



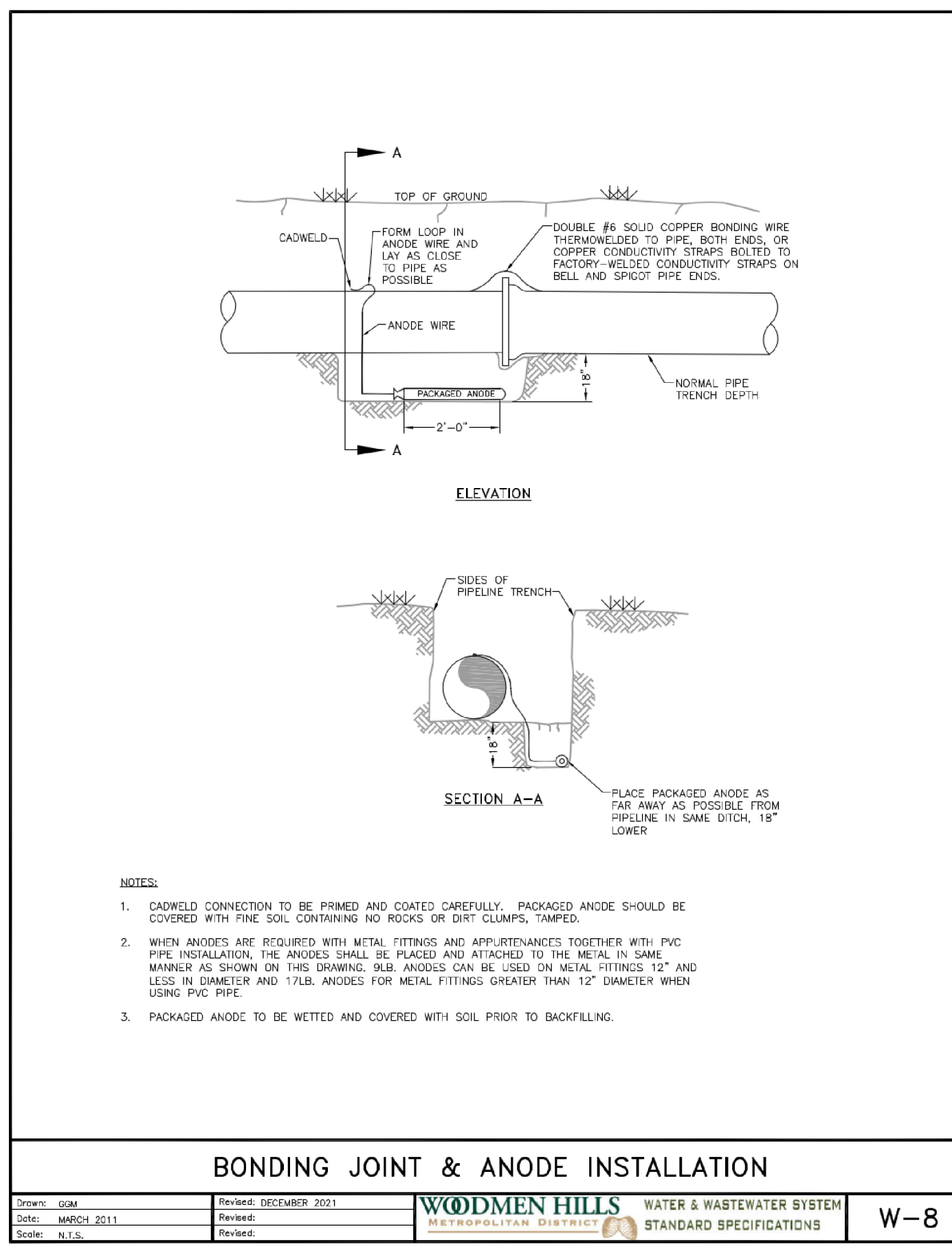
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Date: MARCH 2011
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Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-2



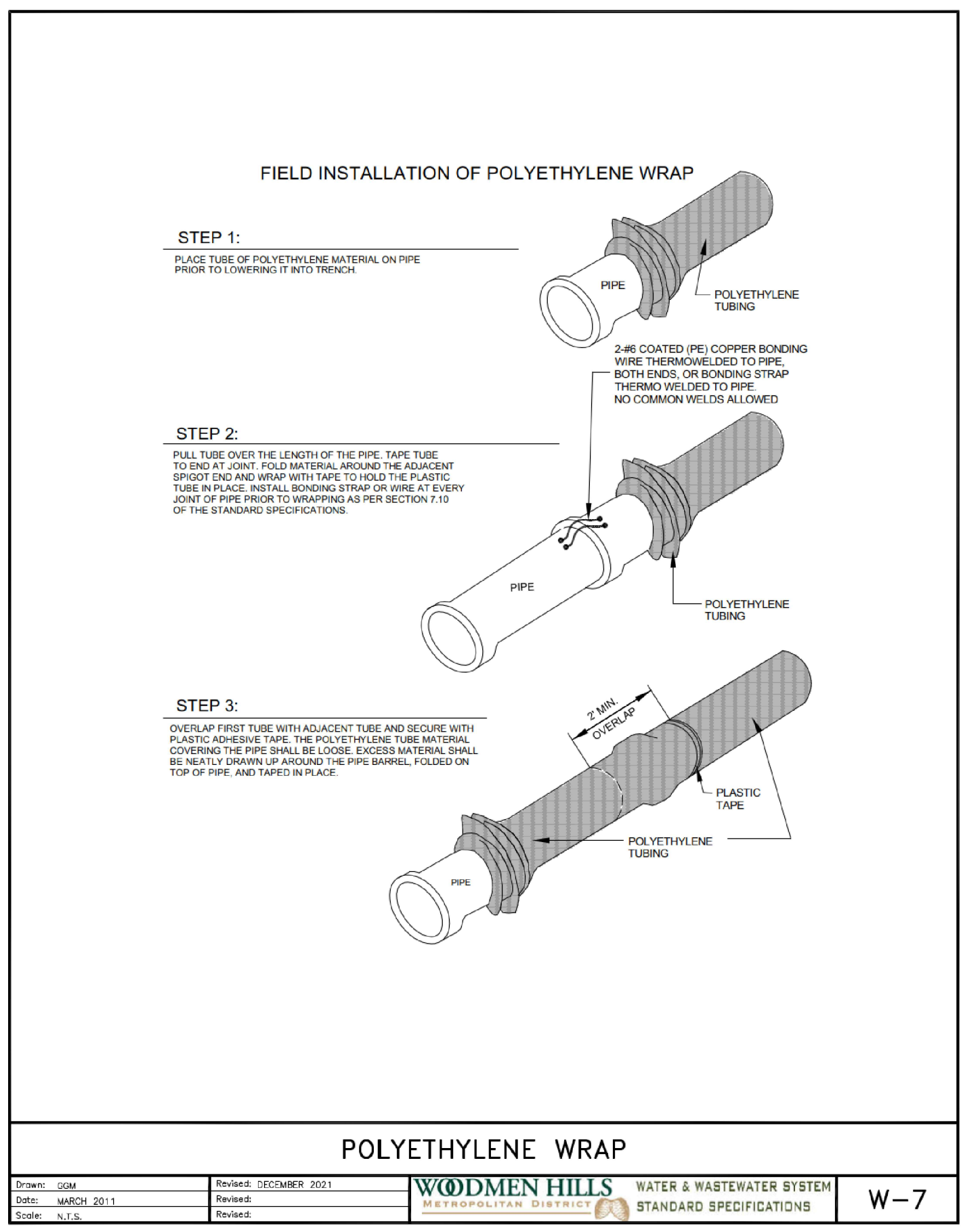
Drawn: JDM
Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-1



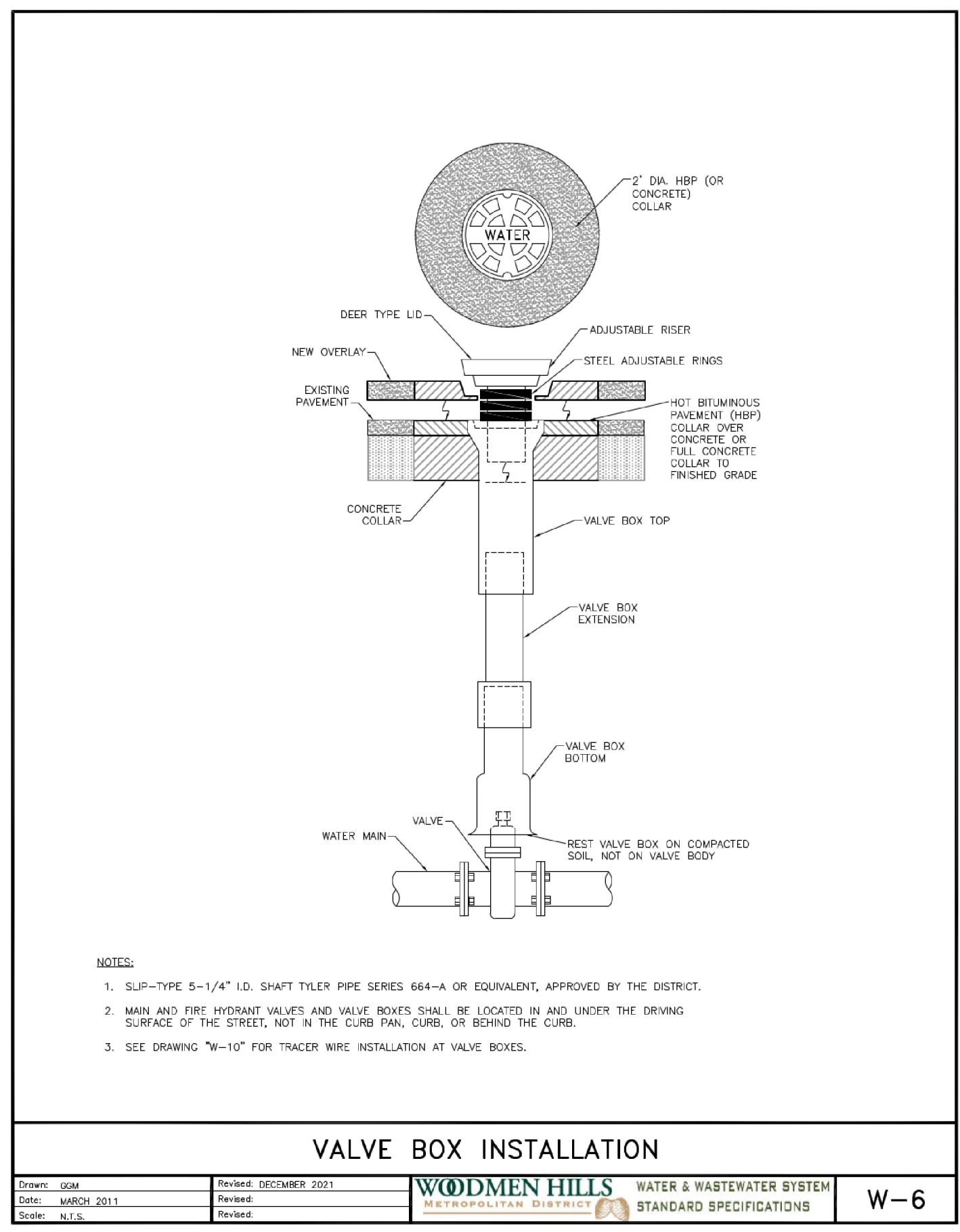
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Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-9



Drawn: JDM
Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-8



Drawn: JDM
Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-7



Drawn: JDM
Date: MARCH 2011
Scale: N.T.S.
Revised: DECEMBER 2021
Revised:
Revised:
WOODMEN HILLS WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
W-6

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

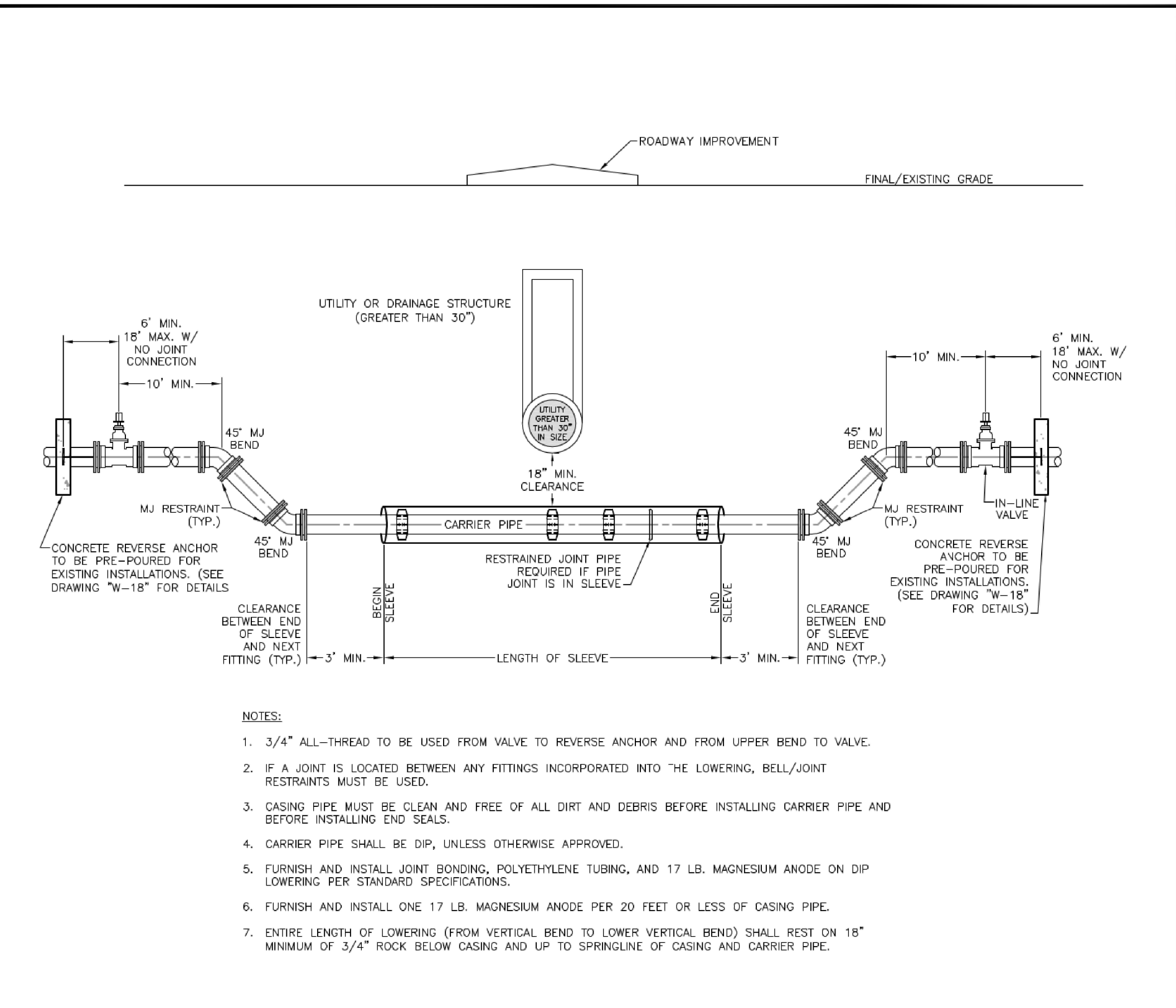
#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: UTIL

WATER DETAILS

LOWERING DETAIL W/CASING UTILITY CROSSING GREATER THAN 30"

DATE: 2021 MARCH 20
 DRAWN: JDM
 CHECKED: CMWJ
 APPROVED: JDM
 PROJECT: WODMEN HILLS METROPOLITAN DISTRICT WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS W-20



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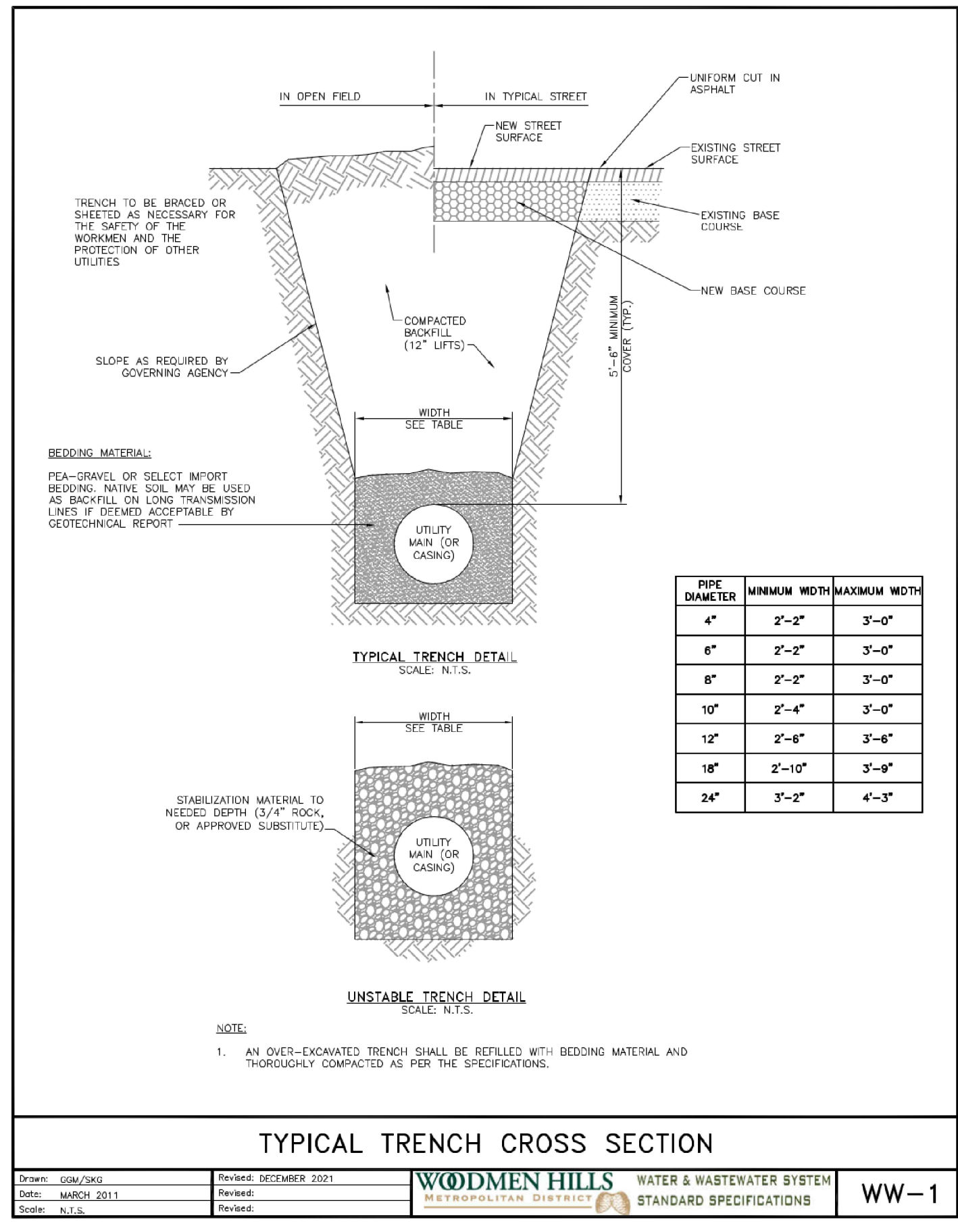
UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

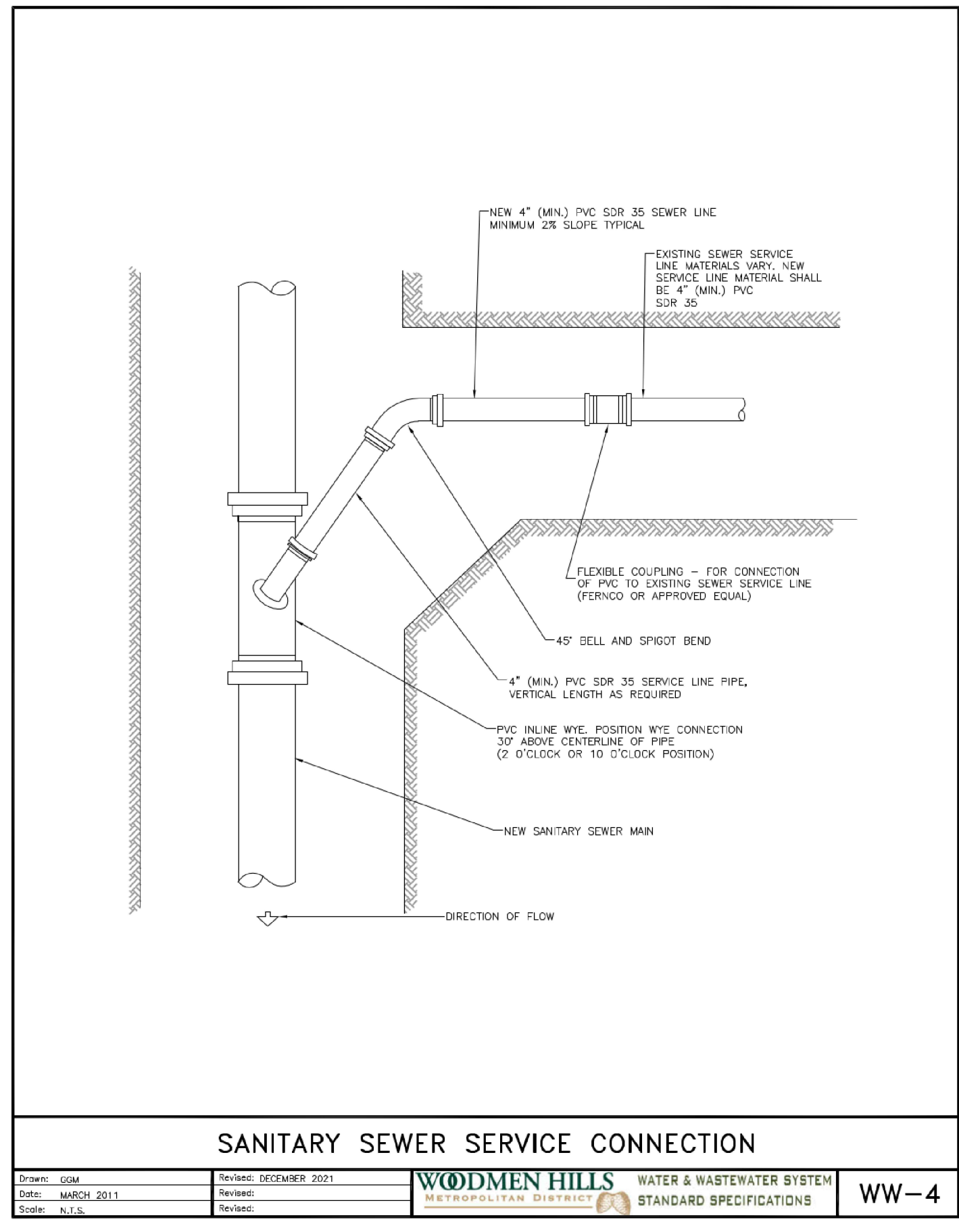
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	UTIL

WASTEWATER DETAILS



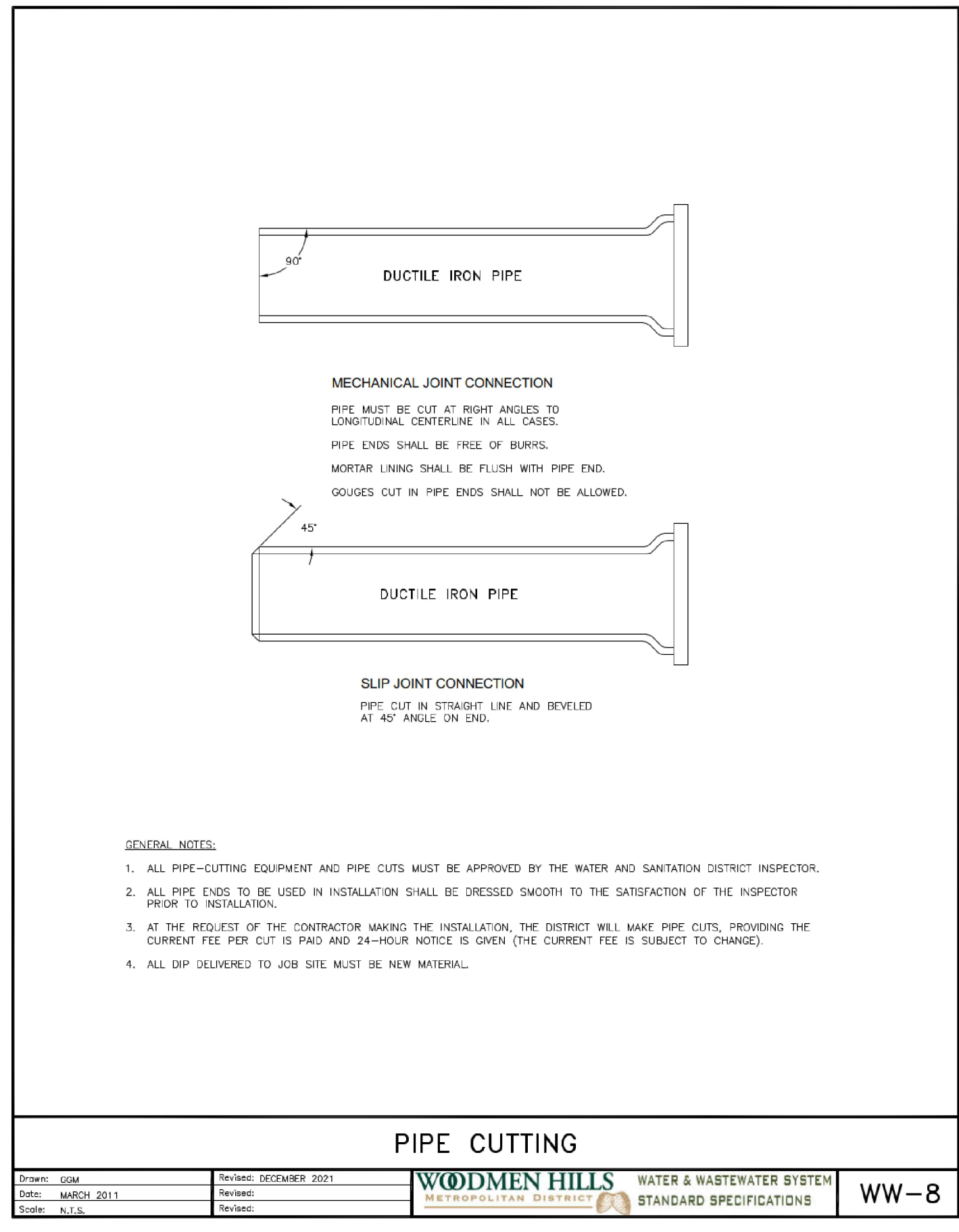
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Date: MARCH 2011
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Revised: DECEMBER 2021
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WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **WW-1**



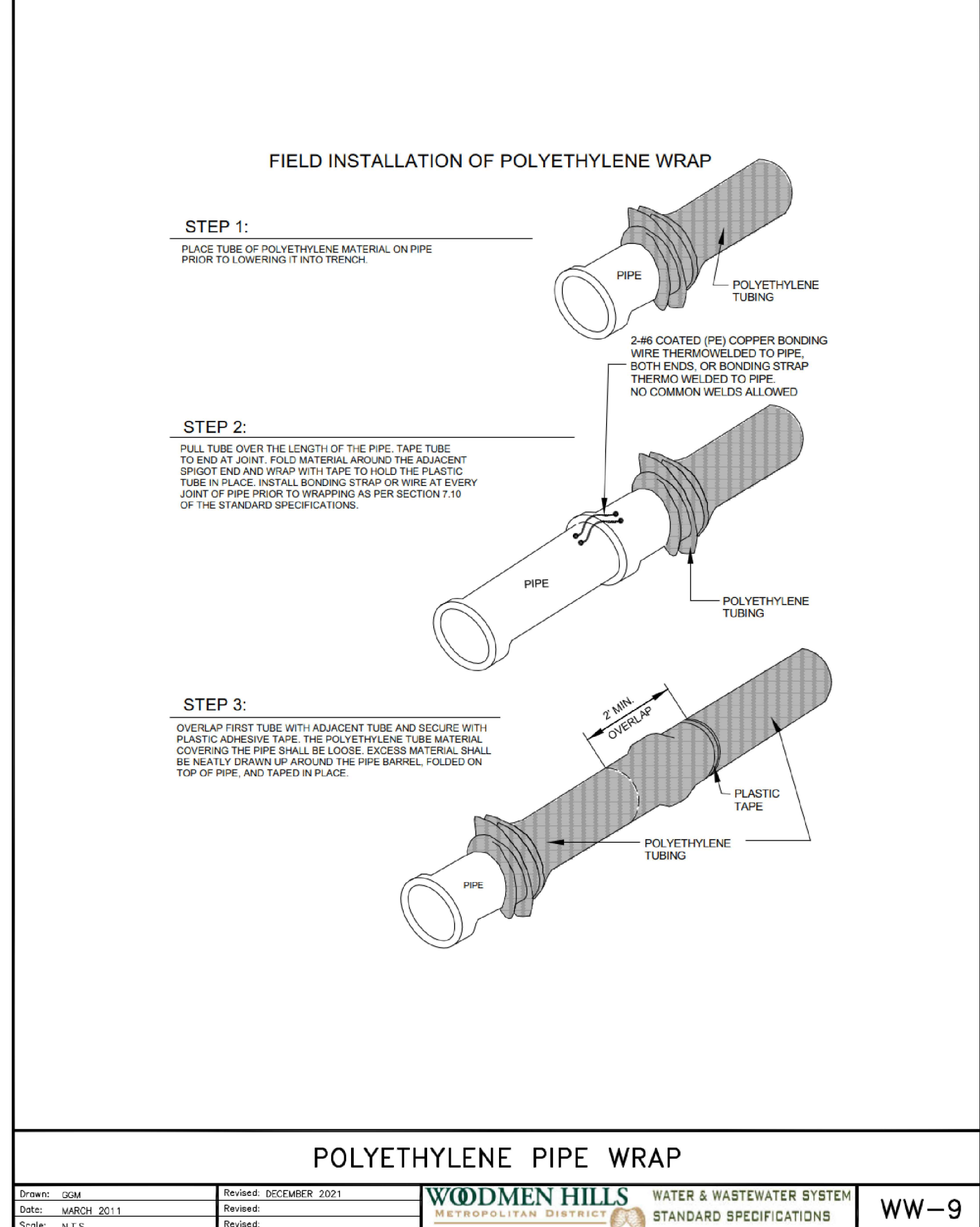
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Revised: DECEMBER 2021
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WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **WW-4**



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Date: MARCH 2011
Scale: N.P.S.
Revised: DECEMBER 2021
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WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **WW-8**



Drawn: GSK
Date: MARCH 2011
Scale: N.P.S.
Revised: DECEMBER 2021
Revised: [blank]
Revised: [blank]

WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **WW-9**

MAXIMUM PIPELINE DEFLECTION DATA

PER SLIP JOINT OF D.I.P.

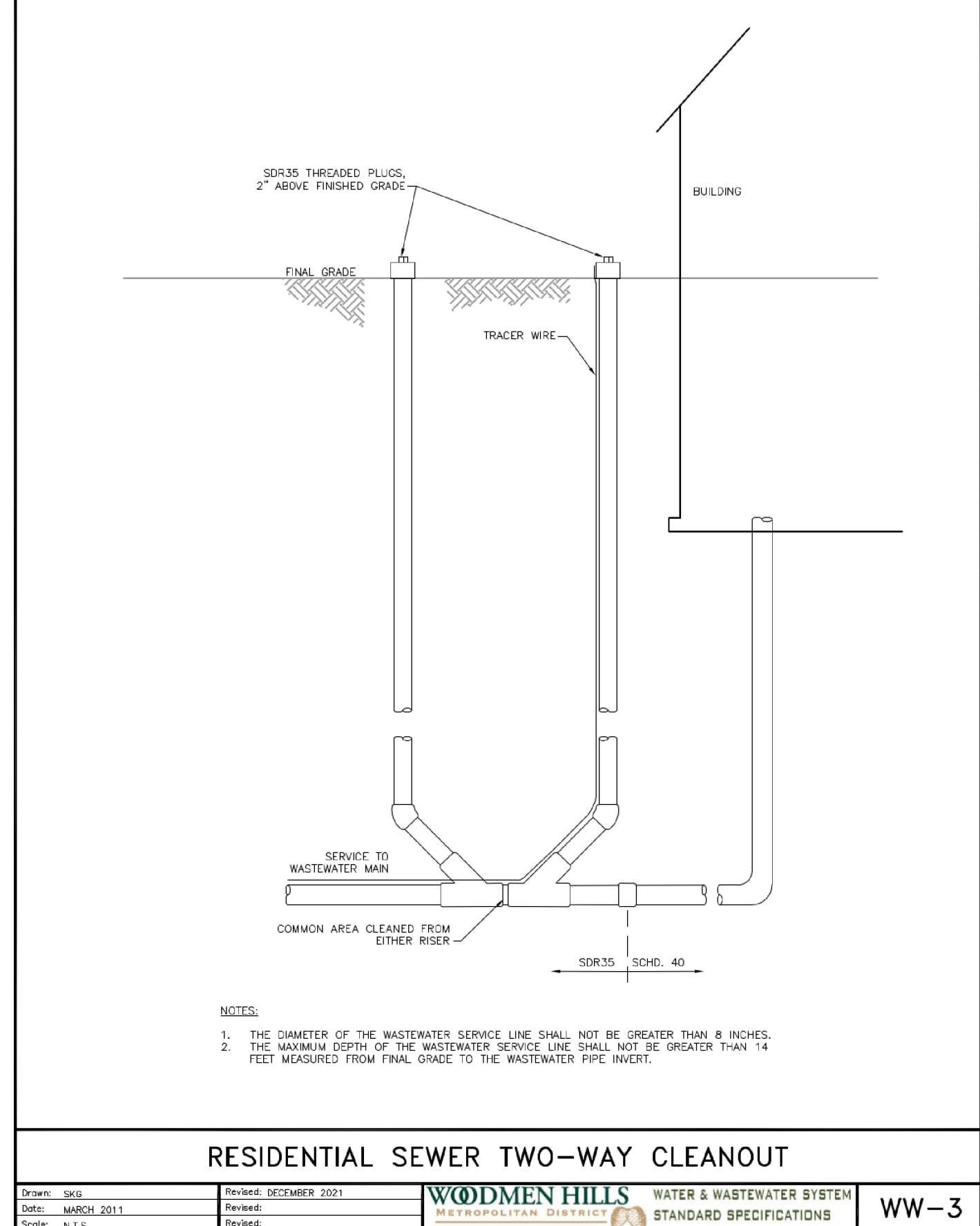
PIPE DIAMETER I.D. (IN)	O.D. (IN)	O.D. (FT)	MFRS. DEFL.	DESIGN DEFLECTION (80% MAX.)		APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BENDS		
				MAX. DEFL. DIST.		(1)	(2)	
				18'	15'			
4"	4.80"	.400'	5'00"/100'	4'00"/100'	18"	15"	286'	258'
6"	6.90"	.570'	5'00"/100'	4'00"/100'	18"	15"	286'	258'
8"	9.05"	.784'	5'00"/100'	4'00"/100'	18"	15"	286'	258'
10"	11.10"	.925'	5'00"/100'	4'00"/100'	18"	15"	286'	258'
12"	13.20"	1.100'	5'00"/100'	4'00"/100'	18"	15"	286'	258'
14"	15.30"	1.275'	3'00"/100'	2'24"/100'	10"	9"	477'	430'
16"	17.40"	1.450'	3'00"/100'	2'24"/100'	10"	9"	477'	430'
18"	19.50"	1.625'	3'00"/100'	2'24"/100'	10"	9"	477'	430'
20"	21.60"	1.800'	3'00"/100'	2'24"/100'	10"	9"	477'	430'
24"	25.80"	2.160'	3'00"/100'	2'24"/100'	10"	9"	477'	430'
30"	32.00"	2.666'	2'30"/100'	2'00"/100'	8"	7"	573'	516'
36"	38.30"	3.192'	2'00"/100'	1'75"/100'	6"	6"	716'	642'
42"	44.50"	3.708'	2'00"/100'	1'75"/100'	6"	6"	716'	642'

(1) 20'L = NORMAL 20-FOOT JOINT LAYING LENGTH
(2) 18'L = NORMAL 18-FOOT JOINT LAYING LENGTH

MAXIMUM PIPELINE DEFLECTION DATA

Drawn: GSK
Date: MARCH 2011
Scale: N.P.S.
Revised: DECEMBER 2021
Revised: [blank]
Revised: [blank]

WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **WW-11**



Drawn: SKJ
Date: MARCH 2011
Scale: N.P.S.
Revised: DECEMBER 2021
Revised: [blank]
Revised: [blank]

WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **WW-3**

WOODMEN STORAGE, LLC. 17 Pine County, MN. CD Engineering, 2200 S. Highway 161, Falcon, CO. 80931