# 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

### PROJECT CONTACTS

PROPERTY OWNER

MIKE D TEXER 11750 OWL PLACE PEYTON, CO 80831 TELE: (719) 641–9261

CONTACT: MIKE D TEXER EMAIL: MIKE.TEXER@GMAIL.COM APPLICANT GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: CALEB JOHNSON

EMAIL: CALEBJOHNSON@GALLOWAYUS.COM CIVIL ENGINEER GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305

COLORADO SPRINGS, CO 80920 TELE: (719) 900–7220 CONTACT: BRADY SHYROCK, P.E. EMAIL: BRADYSHYROCK@GALLOWAYUS.COM LANDSCAPE ARCHITEC

GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: ÉRYNHILDR HALSTEN EMAIL: BRYNHILDERHALSTEN@GALLOWAYUS.COM SURVEYOR GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900–7220 CONTACT: BILL BROOKS EMAIL: BILLBROOKS@GALLOWAYUS.COM

CITY & UTILITY CONTACTS

#### WATER

WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG WASTEWATER WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG ELECTRIC MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD., FALCON, CO 80831 TELE: (800) 388-9881 CONTACT: GINA PERRY EMAIL: GINA.POMVEA.COOP NATURAL GAS COLORADO SPRINGS UTILITIES 7710 DURANT DRIVE, P.O. BOX 1103, MAIL CODE 2150 COLORADO SPRINGS, CO 80947-2150 (719) 668–5573 CONTACT: AARON CASSIO EMAIL: ACASSIO@CSU.ORG FIRE FALCON FIRE PROTECTION DISTRICT 7030 OLD MERIDIAN RD.,

FALCON, CO 80831 TELE: (719) 495-4050 CONTACT: TRENT HARWIG EMAIL: THARWIG@FALCONFIREPD.ORG

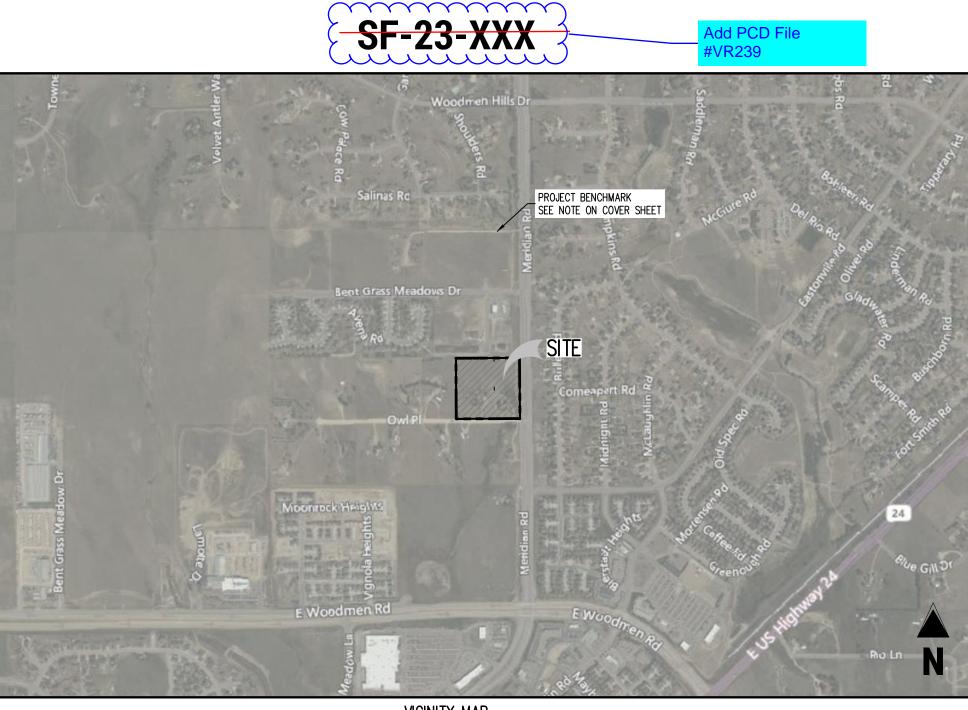




LIST OF ABBREVIATIONS SHT – SHEET  $\Delta$  – DEFLECTION ANGLE — LENGTH r — Radius CB – CHORD BEARING C — CHORD LENGTH N - NORTH/NORTHING W - WEST E - EAST/EASTINGs — South DET – DETAIL ex — existing W/— WITH PC - POINT OF CURVATURE/PORTLAND CEMENT WWF - WELDED WIRE FABRIC VERT – VERTICAL OC - ON CENTER 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

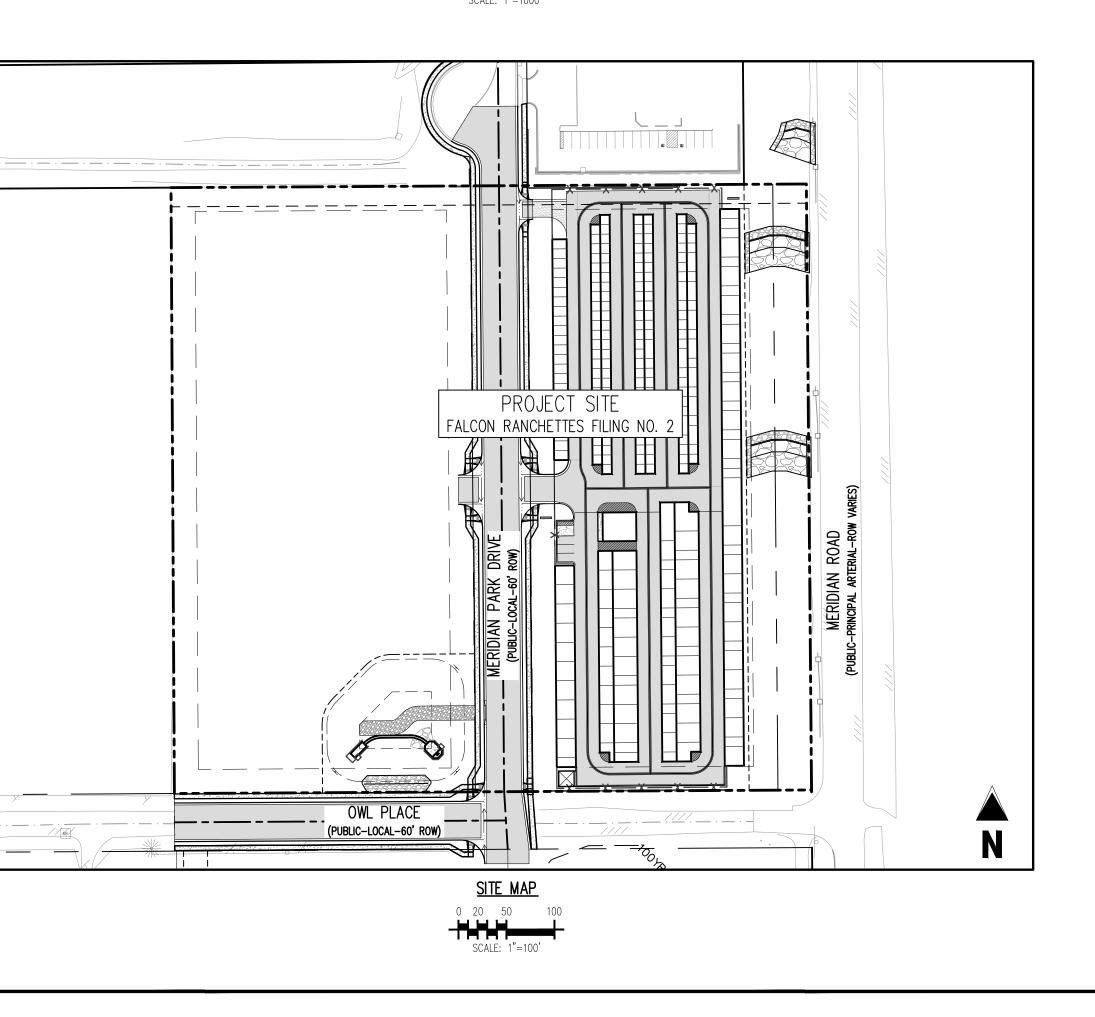
# **MERIDIAN STORAGE, LLC MERIDIAN STORAGE**

## **CONSTRUCTION DRAWINGS**



	SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
1	COVER SHEET	C0.0
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13	STORM DRAIN PLAN	C4.1
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18	STORM DRAIN DETAILS	C5.3
19	STORM DRAIN DETAILS	C5.4
20	STORM DRAIN DETAILS	C5.5
21	CHANNEL PLAN & PROFILE	C6.1
22	DROP STRUCTURE 2 & 3 DETAILS	C7.1
23	DROP STRUCTURE 1 DETAILS	C7.2
24	DROP STRUCTURE GENERAL DETAILS	C7.3
25	CHANNEL SECTIONS	C8.1





COLORADO, MORE WEST. PARTICULARLY DESCRIBED AS FOLLOWS: V-2, PAGE 15, OF THE RECORDS OF EL PASO COUNTY, COLORADO. CONTAINING 9.604 ACRES. MORE OR LESS. BENCHMARK THE SOUTHWEST CORNER OF LOT 1 WODDMEN 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 THEIR COST. COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK DISTRICTS OR ANY OTHER GOVERNING AGENCY. SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION 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 DISCREPANCIESTO THE Know what's below. ENGINEER PRIOR TO CONSTRUCTION. 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S 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 ECM 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 / ECM ADMINISTRATOR

OWNER'S STATEMENT

ENGINEER'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

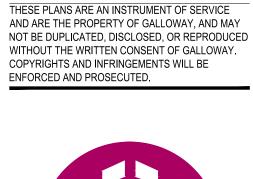
DATE

DATE

DATE

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



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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
# 		Issue / Description		Init.
				·
-				

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



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

GallowayUS.com

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LEGAL DESCRIPTION	
A PARCEL OF LAND IN THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANG WEST, OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE	

LOTS 1 & 2, FALCON RANCHETTES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK

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.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO

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

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 DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION

RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO

Call before you dig.

## GENERAL CONSTRUCTION NOTES

- 1. 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.
- 2. 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.
- 3. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 4. 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.
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED.
- 6. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- 7. 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.
- 8. ALL CULVERT AND STORM PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), 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 ECM SECTION 3.32 - CULVERTS.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. ALL POTABLE WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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

- 1. 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.
- 2. 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).
- 3. 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: A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR
- ROAD AND BRIDGE CONSTRUCTION D. CDOT M & S STANDARDS
- 4. 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.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS. BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. 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.
- 8. 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.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. 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.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. 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

- 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 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"
- 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. 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.
- 12. 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.
- 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520–6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- 14. 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.

### ng and Striping Notes:

All signs and pavement markings shall be in compliance with the curren lanual on Uniform Traffic Control Devices (MUTCD). .Removal of existing pavement markings shall be accomplished by a ethod that does not materially damage the pavement. The pavement arkings shall be removed to the extent that they will not be visible unde ay or night conditions. At no time will it be acceptable to paint over ng pavement markings.

Any deviation from the striping and signing plan shall be approved by EI. aso County Planning and Community Development.

.All signs shown on the signing and striping plan shall be new signs. xisting signs may remain or be reused if they meet current El Paso ounty and MUTCD standards.

Street name and regulatory stop signs shall be on the same post at tersections. .All removed signs shall be disposed of in a proper manner by the

ontractor. All street name signs shall have "D" series letters, with local roadway.

gns being 4" upper-lower case lettering on 8" blank and non-local adway signs being 6" lettering, upper-lower case on 12" blank, with a hite border that is not recessed. Multi-lane roadways with speed limits 35 mph or higher shall have 8" upper-lower case lettering on 12" blank vith a white border that is not recessed. The width of the non-recessed hite borders shall match page 255 of the 2012 MUTCD "Standard ighway Signs". Signal pole mounted and overhead street name signs

nall be per MUTCD size standards. All traffic signs shall have a minimum High Intensity Prismatic grade

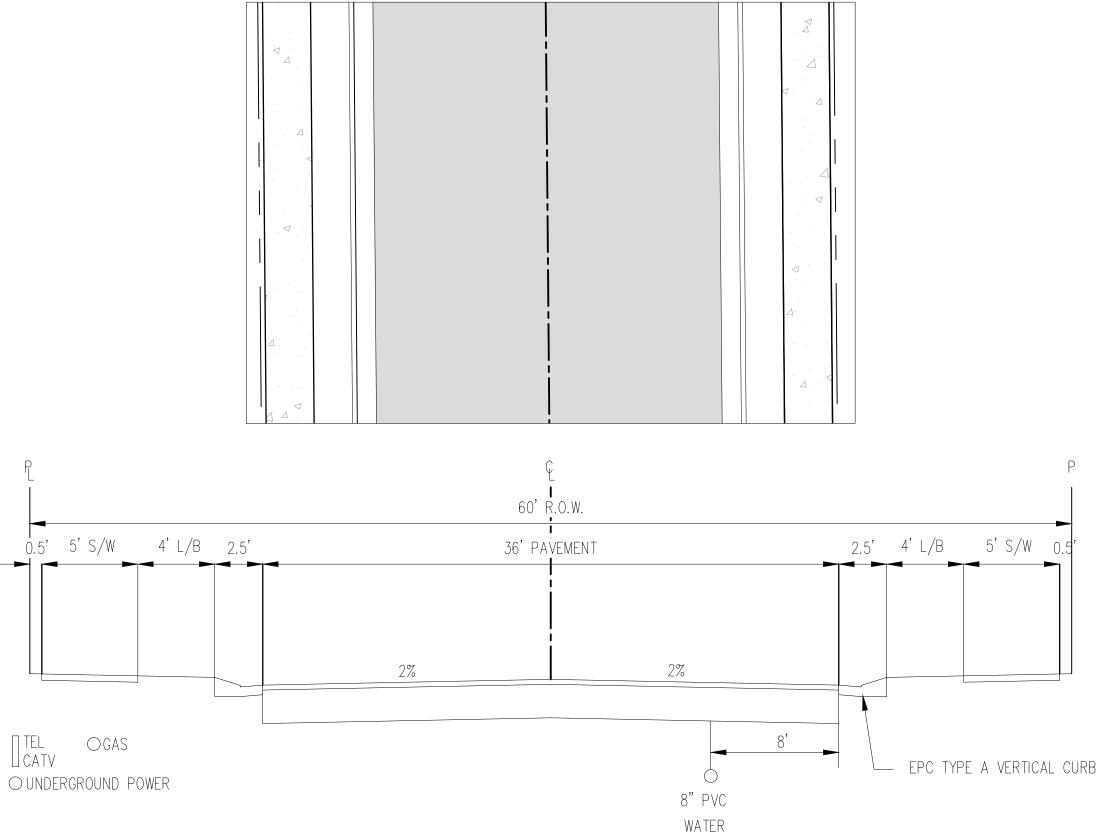
All local residential street signs shall be mounted on a 1.75" x 1.75" uare tube sign post and stub post base. For other applications, refer to e CDOT Standard S-614-8 regarding use of the P2 tubular steel post ipbase design.

0.All signs shall be single sheet aluminum with 0.100" minimum ickness.

1.All limit lines/stop lines, crosswalk lines, pavement legends, and rrows shall be a minimum 125 mil thickness preformed thermoplastic vement markings with tapered leading edges per CDOT Standard 6-627-1. Stop bars shall be 24" in width. Crosswalks lines shall be 24" vide and a minimum of 9' long.

2.Word and symbol markings shall be the narrow type. 3.All longitudinal lines shall be a minimum 15mil thickness epoxy paint. Il non-local residential roadways shall include both right and left edge ne striping and any additional striping as required by CDOT S-627-1. 4. The contractor shall notify El Paso County Planning and Community evelopment (719) 520-6819 prior to and upon completion of signing and

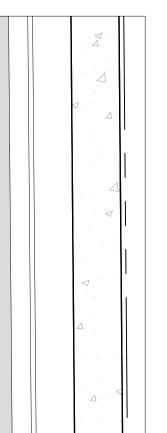
5. The contractor shall obtain a work in the right of way permit from the El aso County Department of Public Works (DPW) prior to any signage or riping work within an existing El Paso County roadway.



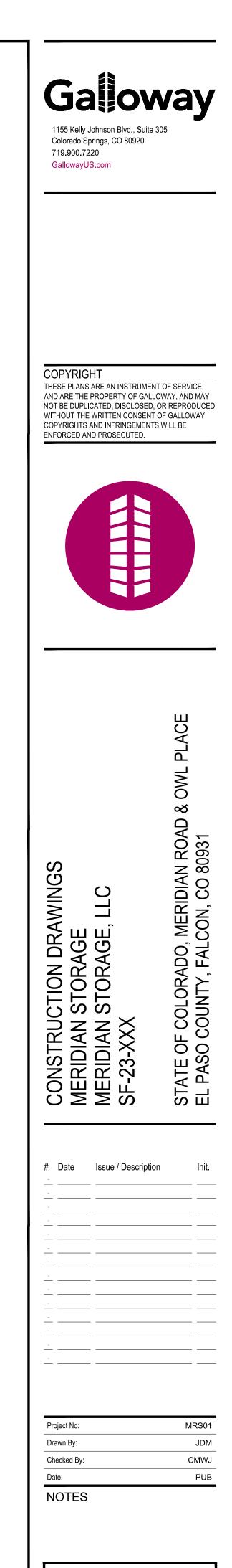
TYPICAL STREET SECTION - URBAN LOCAL ROADWAY N.T.S.

## STREET NAMES

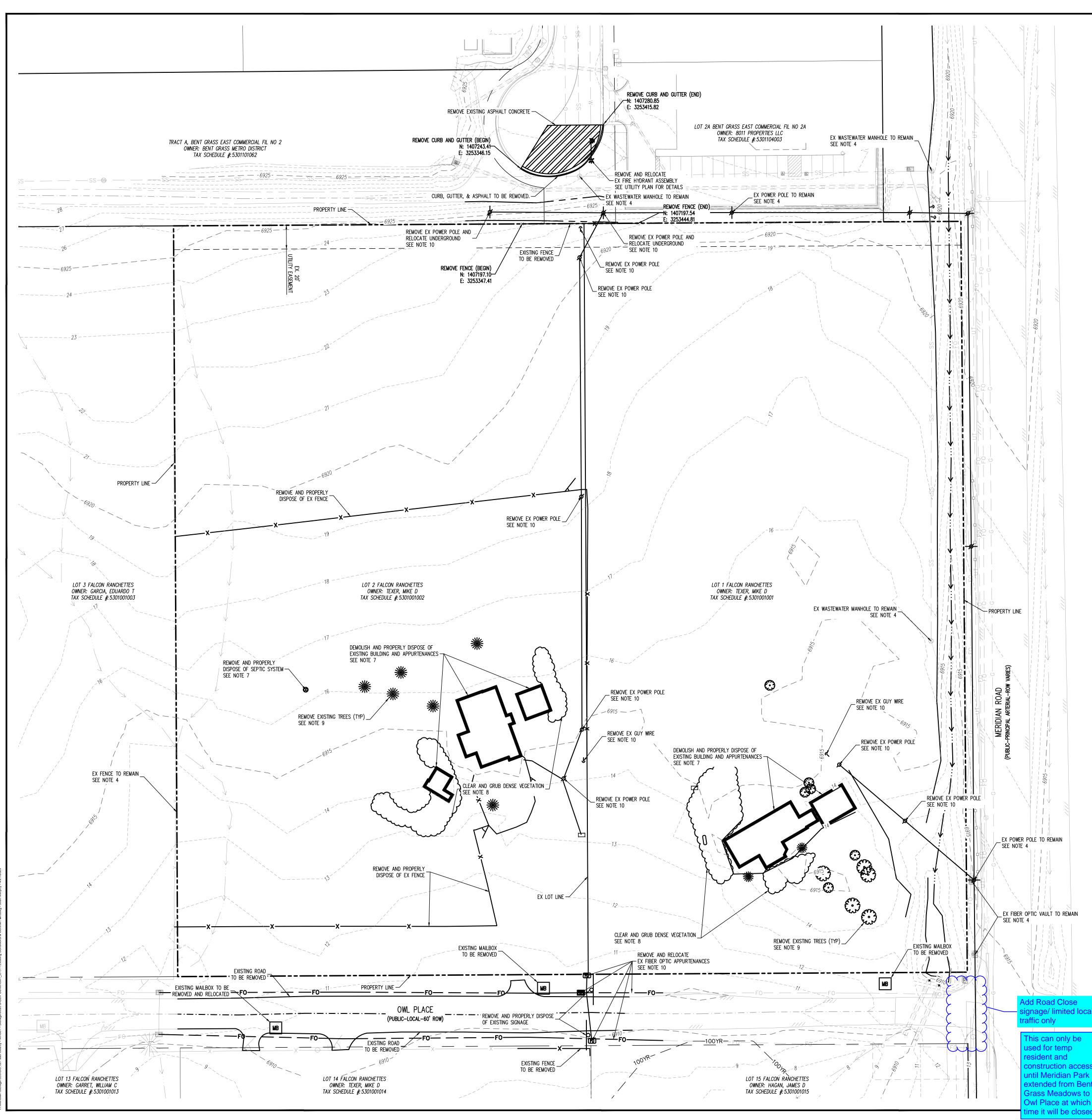
- 1. MERIDIAN PARK DRIVE
- OWL PLACE

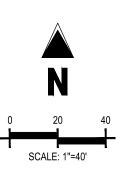


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Sheet 2 of 25





DEMO LEGEND

	TO REMAIN
	TO BE REMOVED
EXISTING CONDITIONS LEC	GEND
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	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
_ · _ · _ · _ · _ · _ · _ · _	EXISTING ROAD CENTERLINE
	EXISTING CURB AND GUTTER
· · · < <u> </u>	EXISTING SWALE LINE
100YR-	FLOODPLAIN BOUNDARY
	EXISTING GUARDRAIL
	EXISTING WATER LINE
	EXISTING SANITARY SEWER
S <u>D S</u> D S <u>D</u>	EXISTING STORM SEWER
G	EXISTING GAS LINE
— —	EXISTING UNDERGROUND TELEPHONE
	EXISTING OVERHEAD ELECTRIC
— — -F0- — —	EXISTING FIBER OPTIC LINE
FO	EXISTING FIBER OPTIC STRUCTURES
TL	EXISTING TELEPHONE PEDESTAL
TR	EXISTING ELECTRIC TRANSFORMER
- <u>Q</u> -	EXISTING POWER POLE
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EXISTING WATER VALVE
Ŕ	EXISTING FIRE HYDRANT
SD	EXISTING STORM SEWER MANHOLE
S	EXISTING SANITARY SEWER MANHOLE
O	EXISTING SIGN

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

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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.

DEMOLITION & SITE PREPARATION NOTES

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS/ THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE CONST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.

2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.

3. UNLESS SPECIFICALLY NOTED TO BE SAVED/STOCKPILED (R&S) OR REUSED/RELOCATED (R&R), ALL SITE FEATURES CALLED FOR REMOVAL (REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC, TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.

4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK

6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATION FOR GRAVEL BORROW.

7. ALL ITEMS CALLED FOR REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, AND OTHER APPURTENANCES, EXCEPT AS SPECIFICALLY NOTED otherwise.

8. 'CLEAR AND GRUB VEGETATION' SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.

9. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

10. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS ON RELOCATION AND REMOVAL OF EXISTING IMPROVEMENTS

#### 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 ( 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 WODDMEN 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

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 DISCREPANCIESTO THE Know what's below. ENGINEER PRIOR TO CONSTRUCTION.



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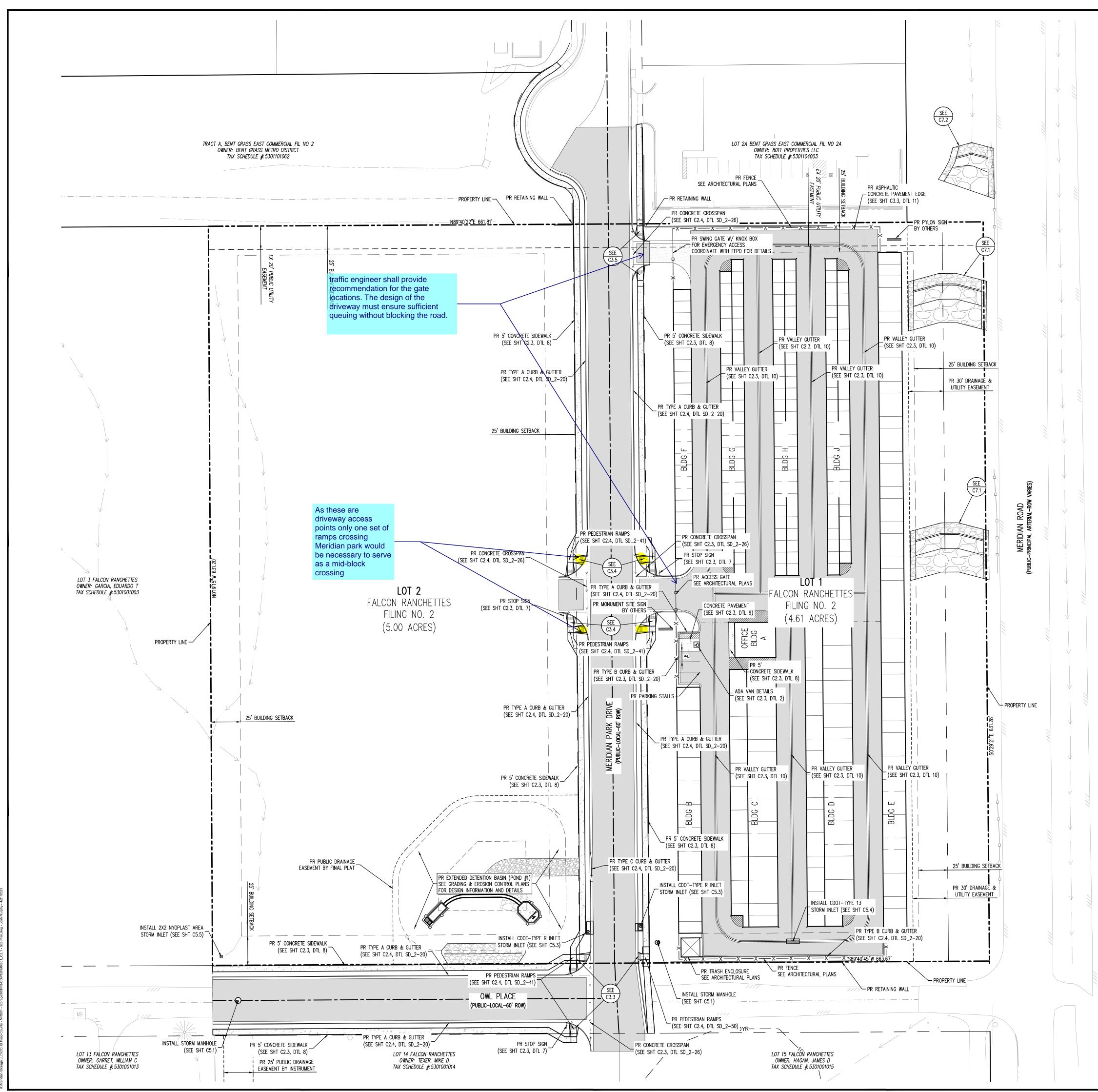
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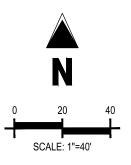
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

EXISTING CONDITIONS & DEMO PLAN



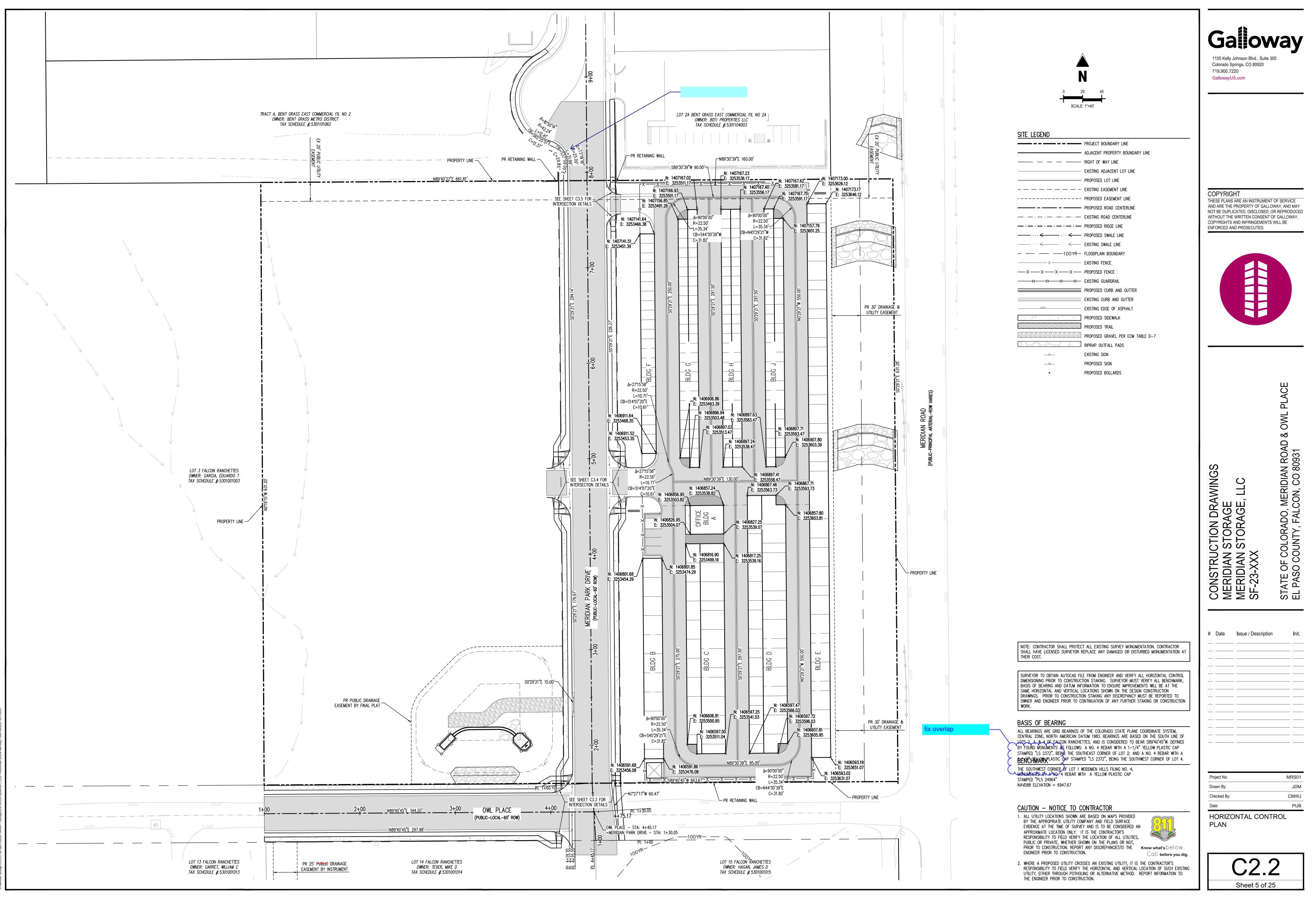
Call before you dig. 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



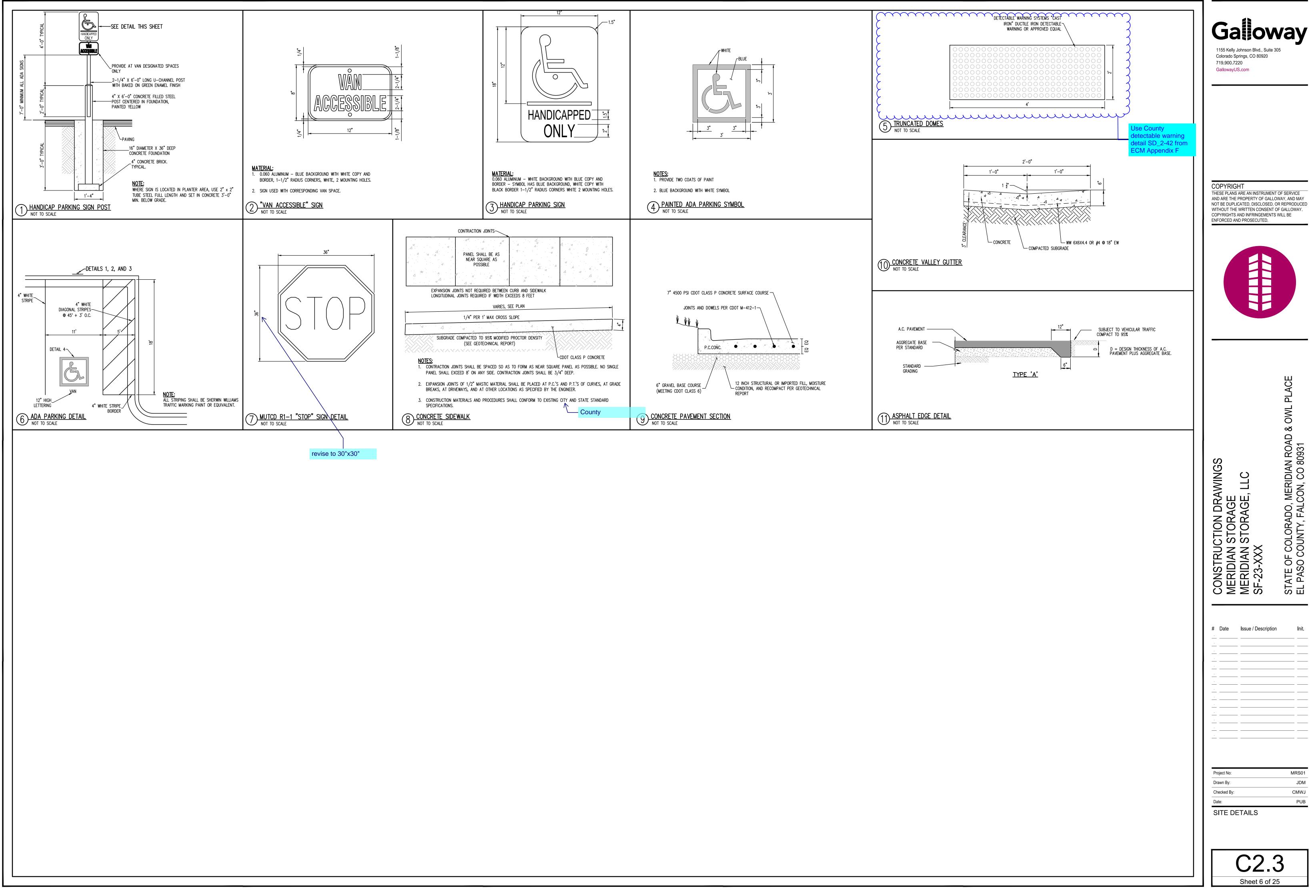


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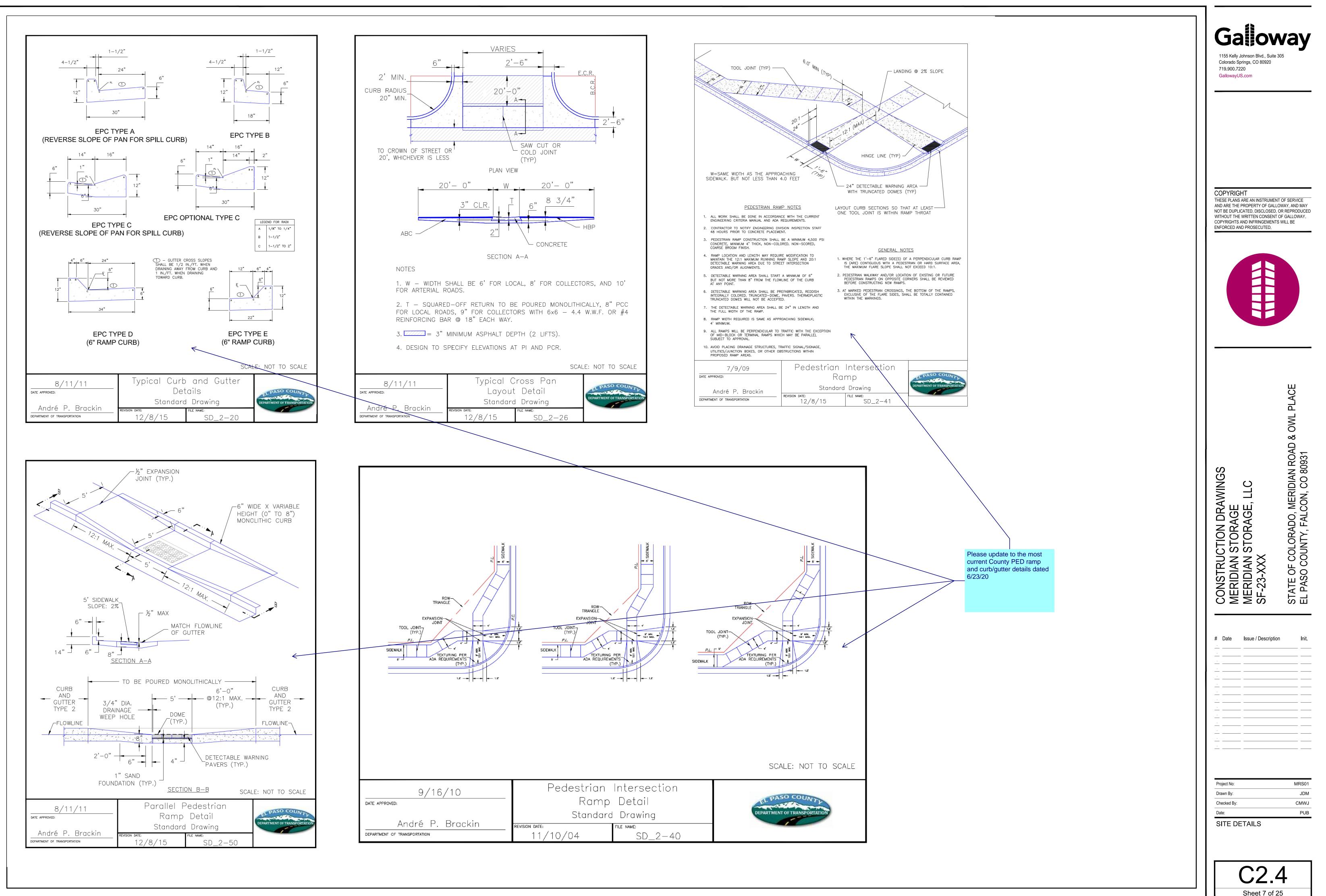
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	•	PROPOSED BOLLARDS		
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	WORK.		# Date Issue / Description	Init.
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	GEOTECHNICAL REPORT PREPARED	T DESIGN SHALL BE PER RECOMMENDATIONS FROM A FOR THIS SITE AS FOLLOWS: GEOTECHNICAL ENGINEERING		
	Y VEXPLORATION AND ANALYSIS: PRO	POSED ARVADA FIRE STATION #9 AT CANDELAS POINT		
3				
C	THE CONTRACTOR MUST FULL ARE	WEW THIS REPORT PRIOR TO CONSTRUCTION. INFORMATION PERSEDES ANY CONFLICTING INFORMATION CONTAINED IN		
		PECIFICATIONS. REFER TO GENERAL STRUCTURAL NOTES FOR		
			<u> </u>	
	BASIS OF BEARING			
		OF THE COLORADO STATE PLANE COORDINATE SYSTEM, DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF	<u> </u>	
	LOTS 2, 3, & 4 OF FALCON RANCH	ETTES, AND IS CONSIDERED TO BEAR S89'40'45"W. DEFINED S: A NO. 4 REBAR WITH A 1–1/4" YELLOW PLASTIC CAP	<u> </u>	
	STAMPED "LS 2372", BEING THE SC	UTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A PED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.		
	,			
	BENCHMARK THE SOUTHWEST CORNER OF LOT 1	WODDMEN HILLS FILING NO. 4,	Project No:	MRS01
	MONUMENTED BY A NO. 4 REBAR W STAMPED "PLS 24964"	ITH A YELLOW PLASTIC CAP	Drawn By: Checked By:	JDM CMWJ
	NAVD88 ELEVATION = $6947.67$		Date:	PUB
	CAUTION - NOTICE TO		SITE PLAN	
	1. ALL UTILITY LOCATIONS SHOWN BY THE APPROPRIATE UTILITY C EVIDENCE AT THE TIME OF SURV			
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	PUBLIC OR PRIVATE, WHETHER S PRIOR TO CONSTRUCTION. REPOR	HOWN ON THE PLANS OR NOT, RT ANY DISCREPANCIESTO THE Know what's below.		
	ENGINEER PRIOR TO CONSTRUCT	ON. Call before you dig.		1 7
	RESPONSIBILITY TO FIELD VERIFY	DSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING DLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO	C2.1	
	THE ENGINEER PRIOR TO CONSTI		Sheet 4 of 25	5

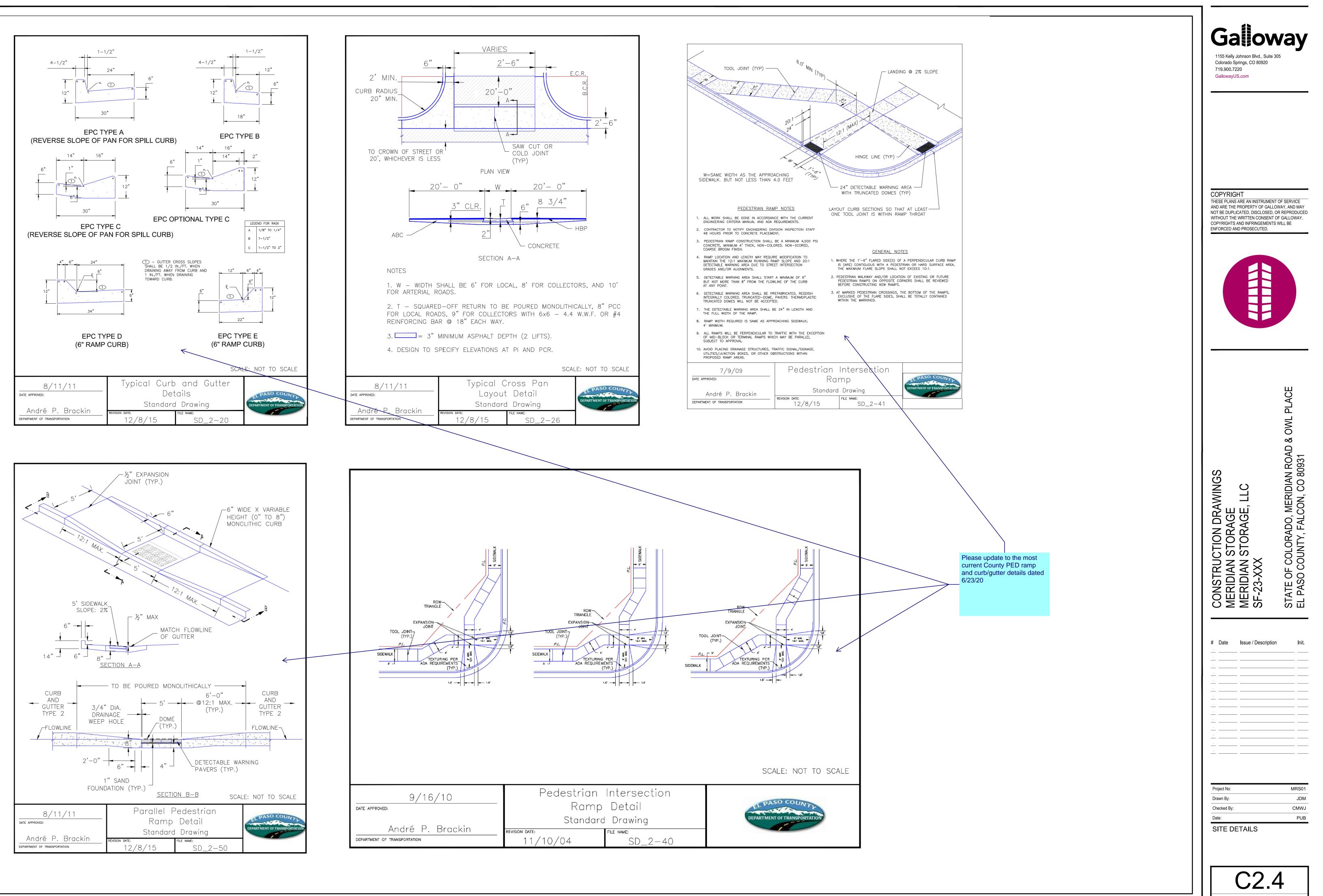


age LLC/CO, El Paso County - MRS01 - Storage/0CIV/3-CD/PUB/MRS01\_C2.2 - Horizontal Control Plan.dwg - Josh Murphy - 4/2/1

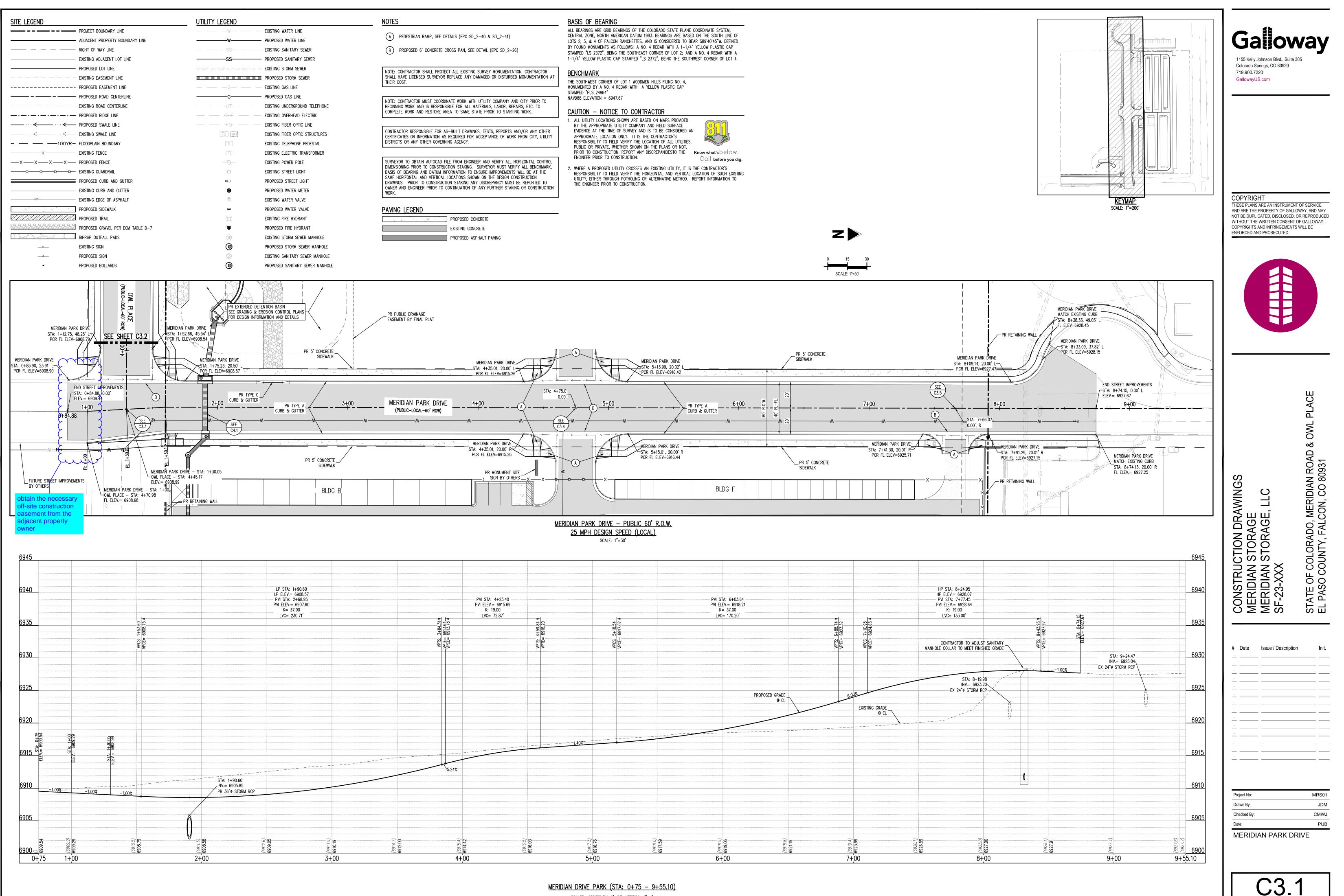


Storage LLC/CO, EI Paso County - MRS01 - Storage/0CIV/3-CDIPUB/MRS01\_C2.3 - Site Details dwg - Josh Murphy - 4/21/



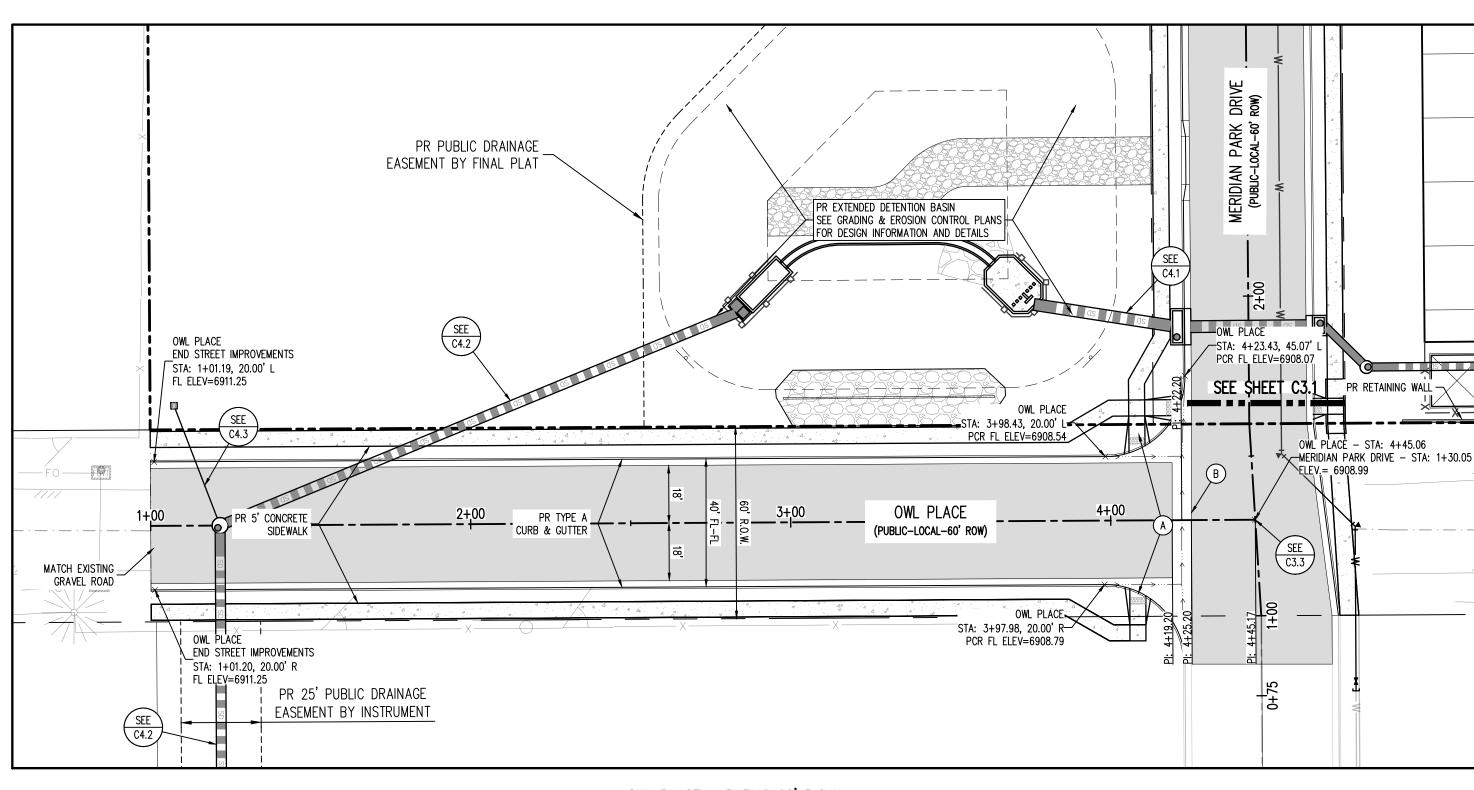


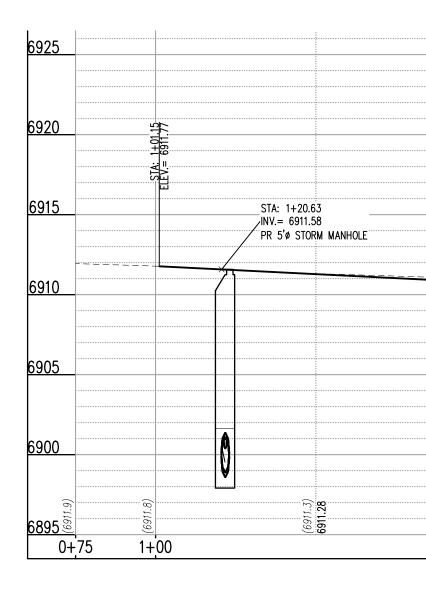
9/16/10	Ram	Intersection p Detail rd Drawing	DEPARTMENT OF TRANSPORTATION
ré P. Brackin	REVISION DATE:	FILE NAME:	
RTATION	11/10/04	SD_2-40	



MERIDIAN DRIVE PARK (STA: 0+75 - 9+55.10) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

Sheet 8 of 25

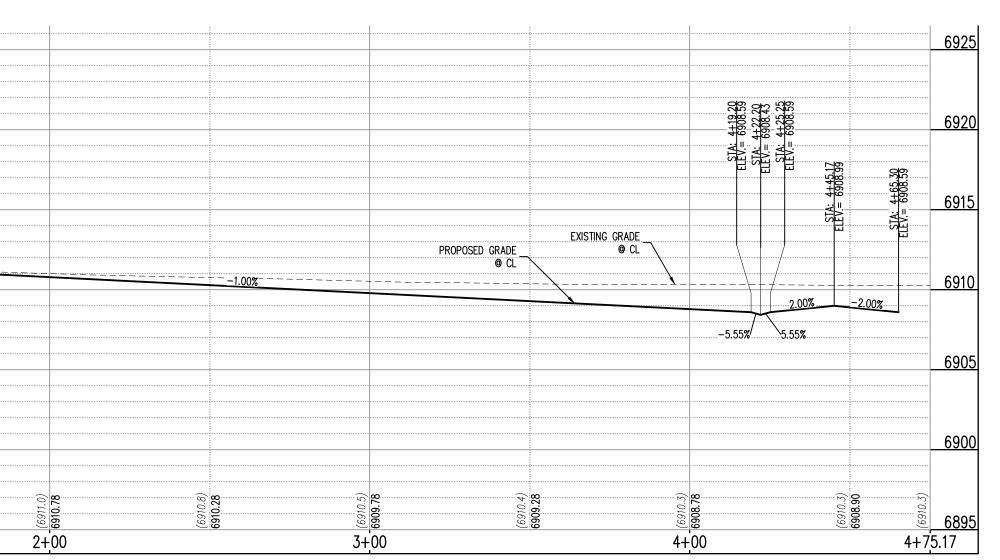




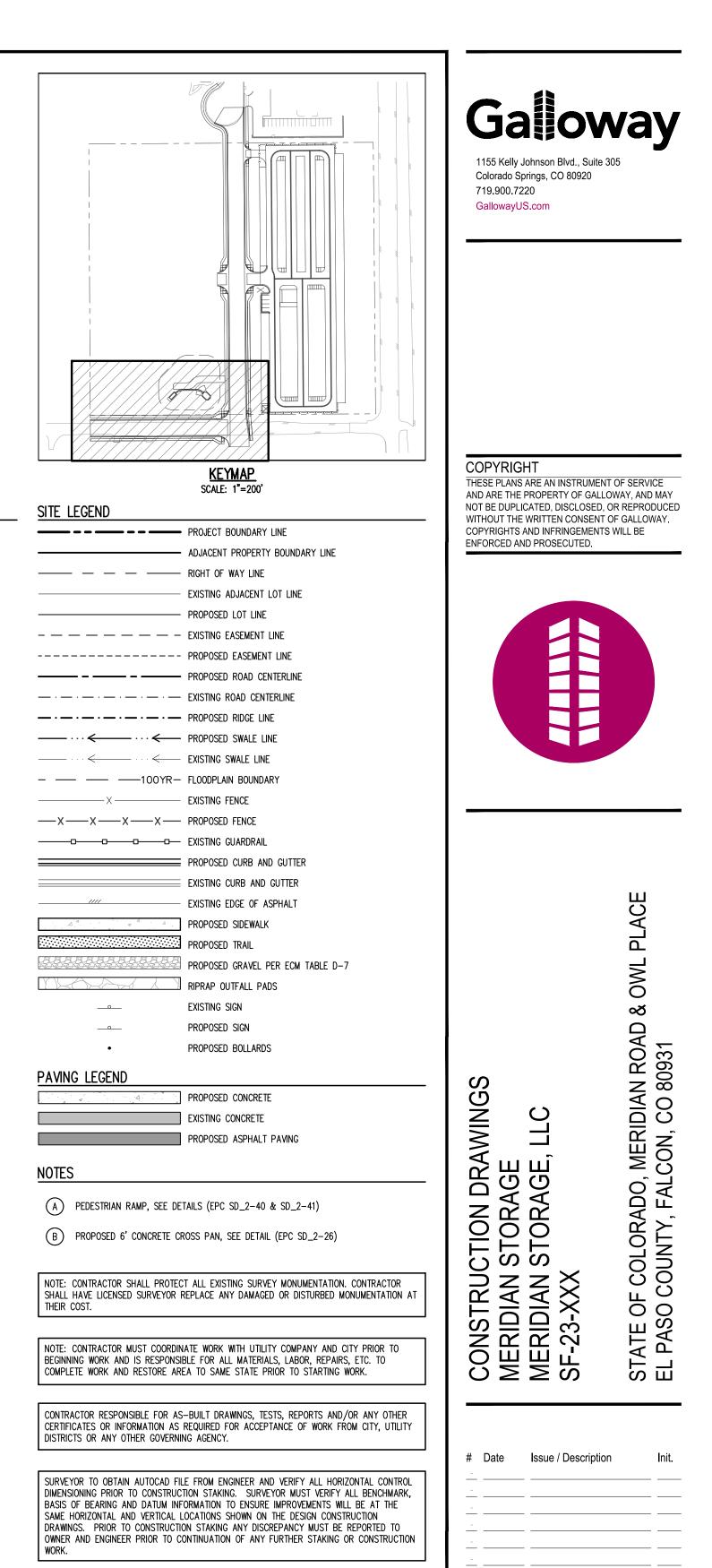


<u>OWL PLACE – PUBLIC 60' R.O.W.</u> 25 MPH DESIGN SPEED (LOCAL)

SCALE: 1"=30'



<u>OWL PLACE (STA: 0+75 - 4+75.17)</u> SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



## BASIS OF BEARING

SCALE: 1"=30'

UTILITY LEGEND

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SD SD SD SD SD PROPOSED STORM SEWER

- EXISTING WATER LINE

----- PROPOSED WATER LINE

PROPOSED SANITARY SEWER

EXISTING GAS LINE

EXISTING UNDERGROUND TELEPHONE

EXISTING FIBER OPTIC STRUCTURES

EXISTING TELEPHONE PEDESTAL

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

EXISTING ELECTRIC TRANSFORMER

EXISTING OVERHEAD ELECTRIC

EXISTING FIBER OPTIC LINE

------ PROPOSED GAS LINE

EXISTING SANITARY SEWER

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#### BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN 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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 $\mathbb{Call}$  before you dig.

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 POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

OWL PLACE

Project No: Drawn By:

Checked By:

Date:

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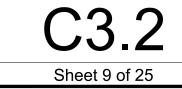
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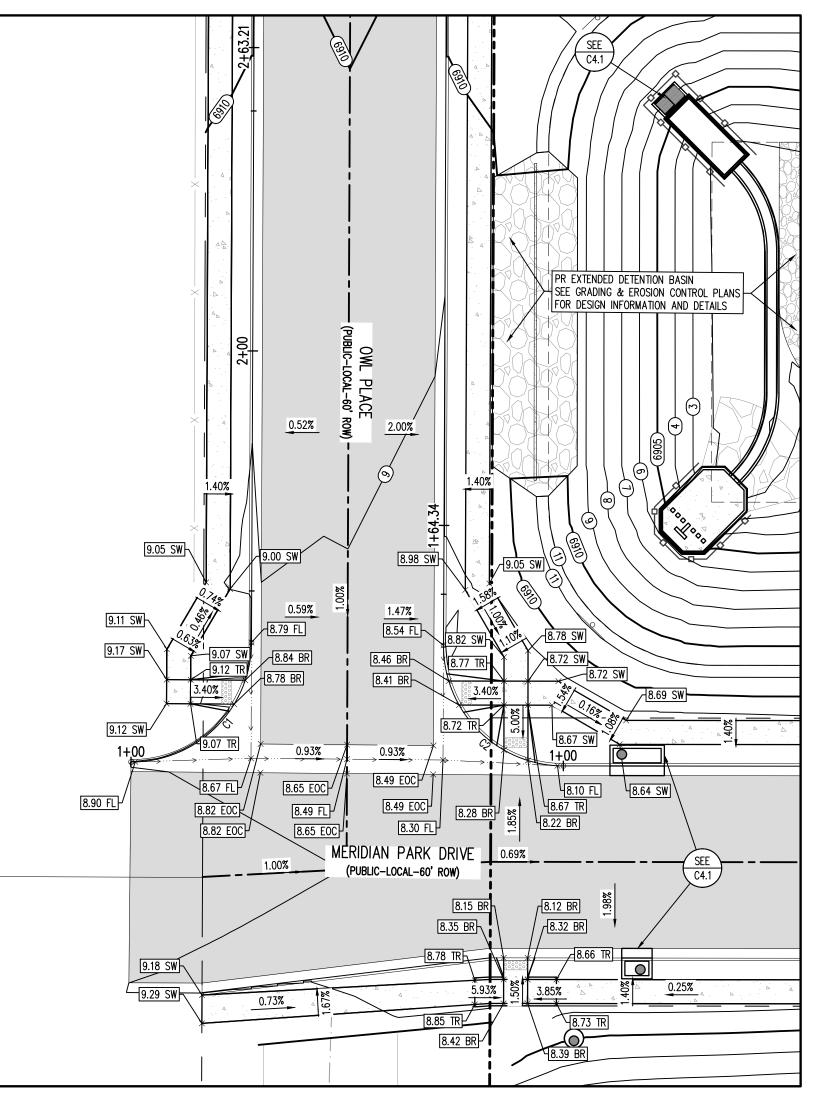


MRS01

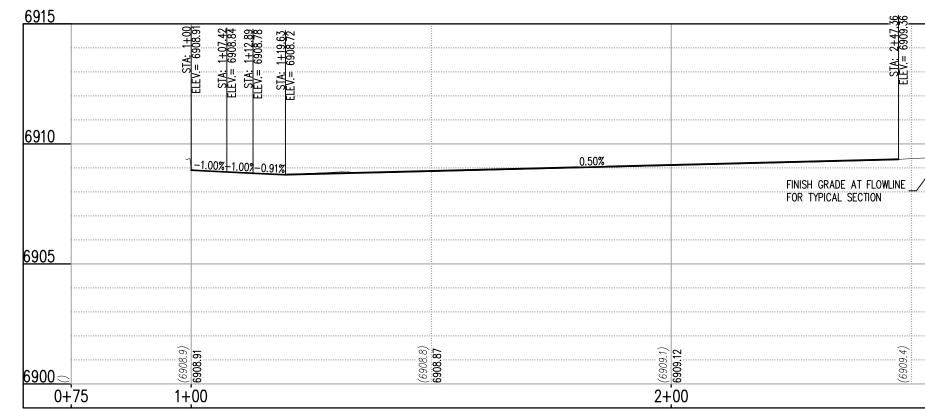
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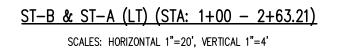
CMWJ

PUB









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

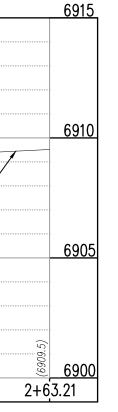
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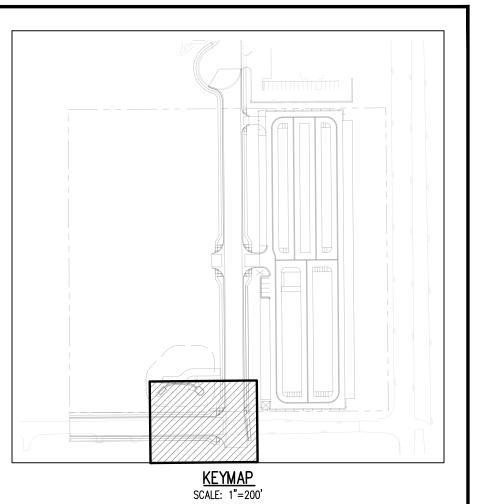
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SCALE: 1"=20'

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

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XISTING ELECTRIC TRANSFORMER
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PROPOSED SANITARY SEWER MANHOLE

DETAIL GRADING LEGEND	
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	PROPOSED LOT LINE
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	PROPOSED SIDEWALK
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66)	PROPOSED MINOR CONTOUR
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<u>    4:1</u> ►	PROPOSED SLOPE - RISE/RUN
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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 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

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## BASIS OF BEARING

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#### BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN 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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Call before you dig.



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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
# 	Date	Issue	/ Description		Init.
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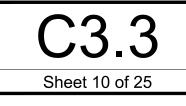
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

INTERSECTION DETAILS

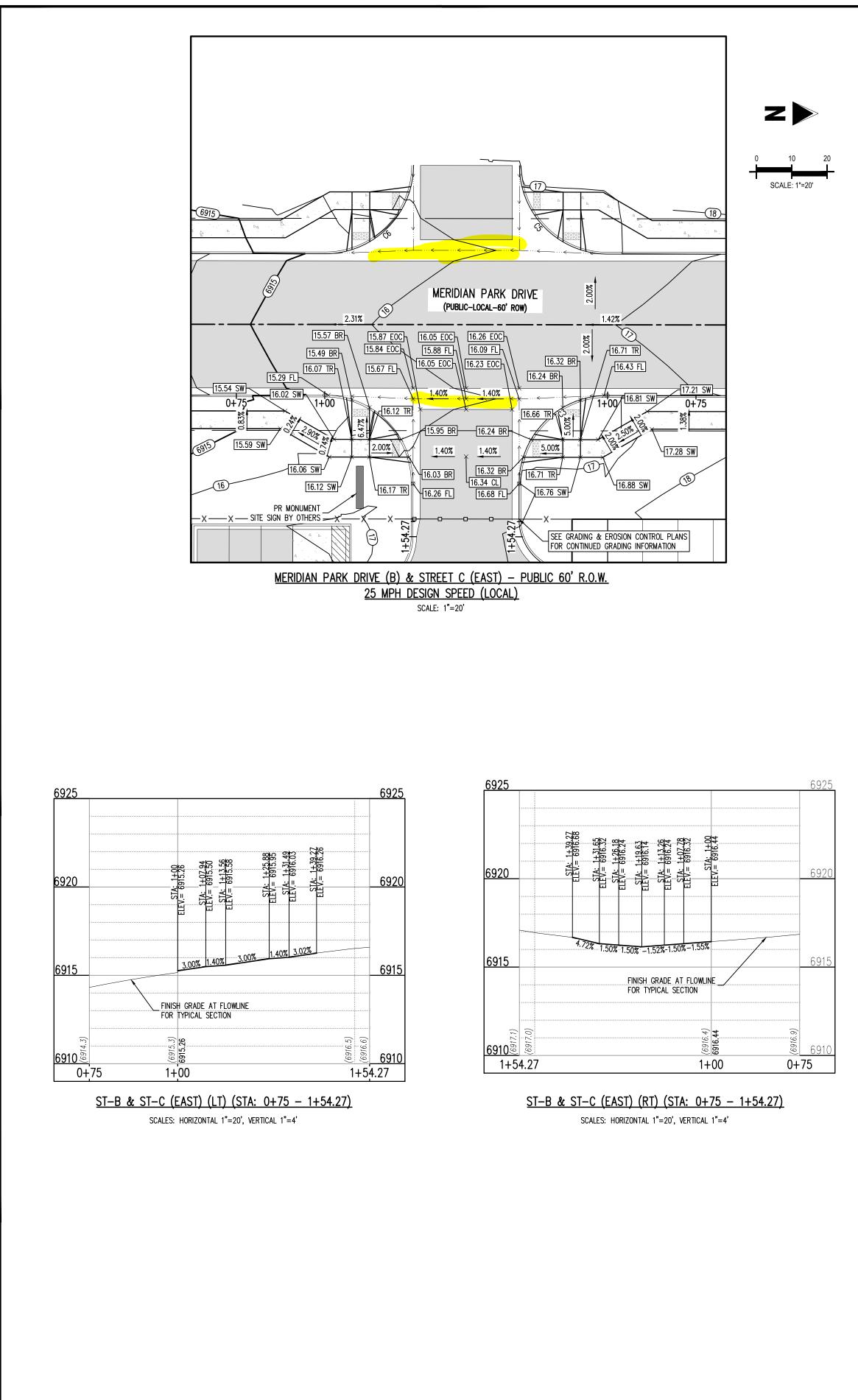
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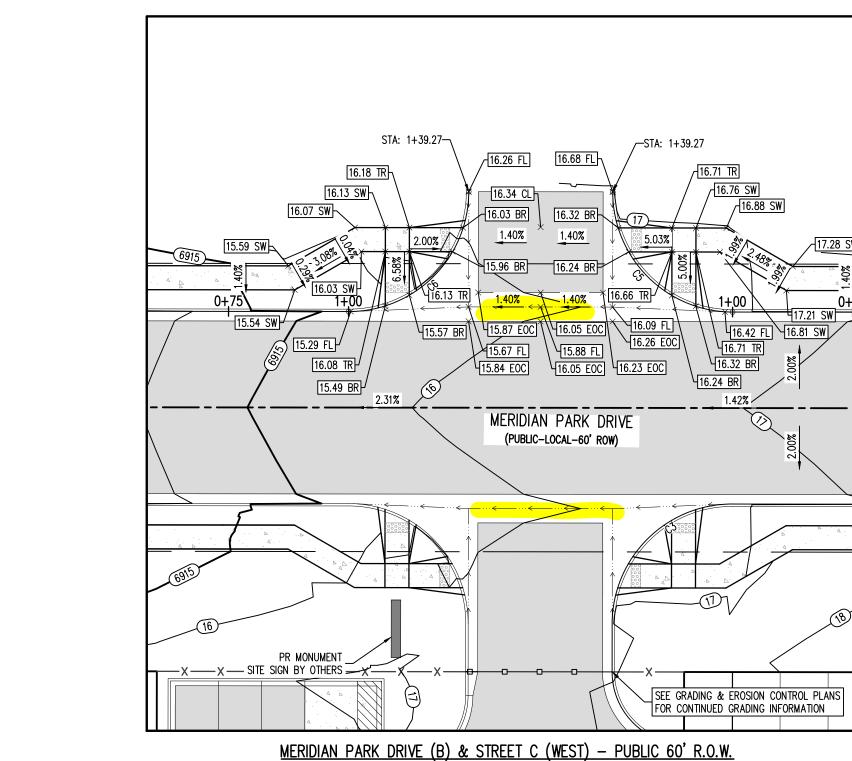
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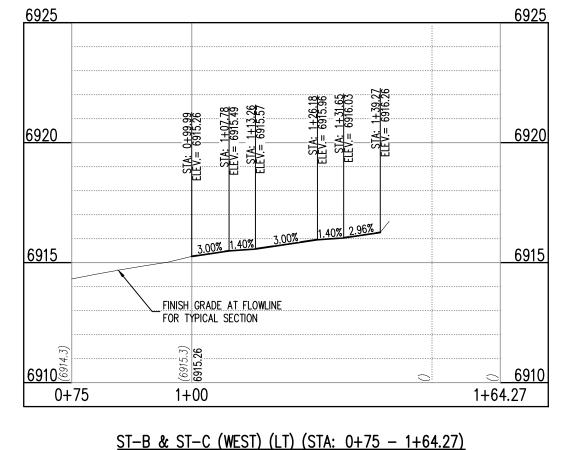


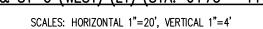
25 MPH DESIGN SPEED (LOCAL) SCALE: 1"=20'

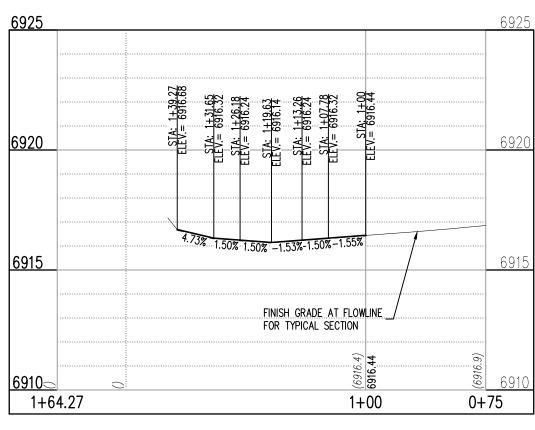
FLOW LINE CURVE SEGMENT TABLE					
CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C3	90'00'00"	39.27	25.00	S45"29'21"E	35.36
C5	90'00'00"	39.27	25.00	S44°30'39"W	35.36
C6	90'00'00"	39.27	25.00	S45°29'21"E	35.36

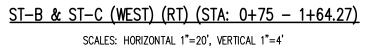
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SCALE: 1"=20'

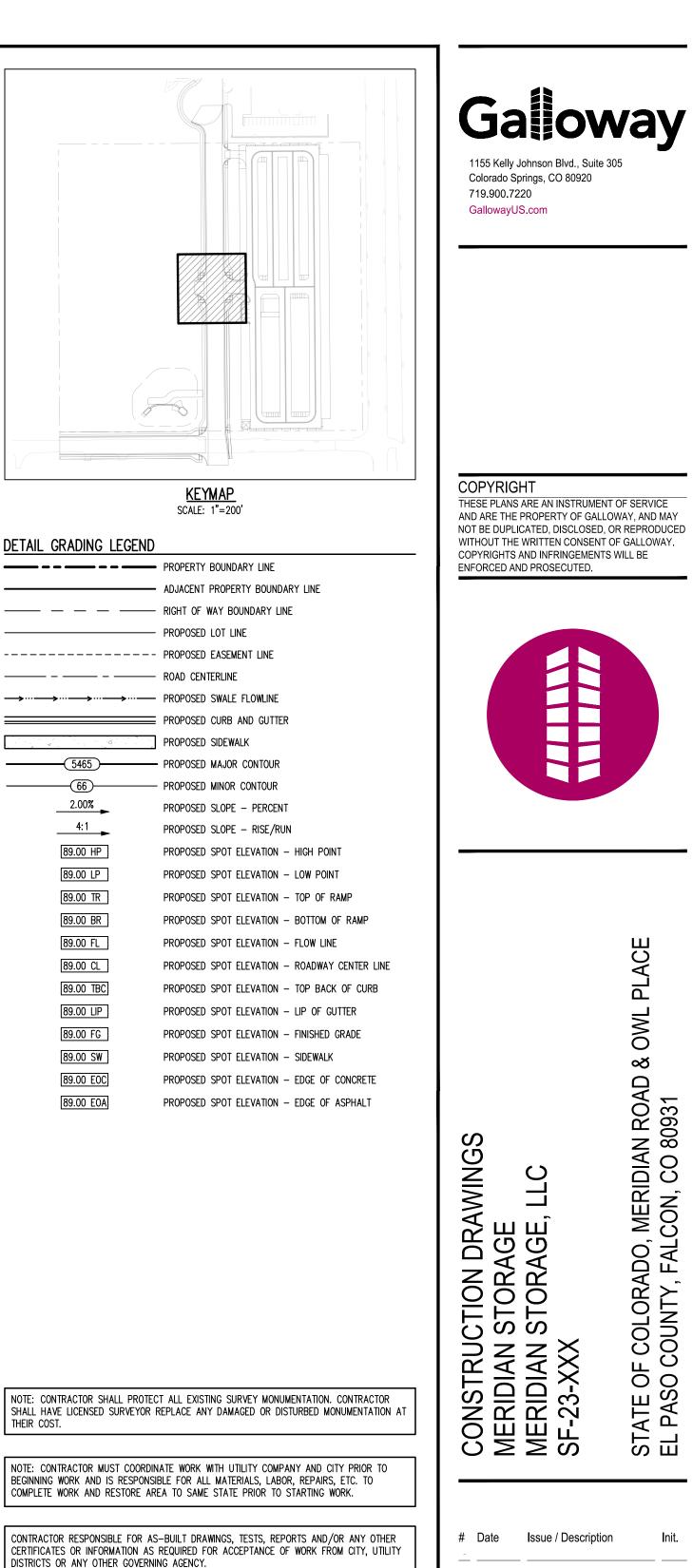












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Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

INTERSECTION DETAILS

 $\neg \uparrow$ Sheet 11 of 25

CAUTION - NOTICE TO CONTRACTOR

BASIS OF BEARING

BENCHMARK

STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

DETAIL GRADING LEGEND

2.00%

89.00 HP

89.00 LP

89.00 TR

89.00 BR

89.00 FL

89.00 CL

89.00 TBC

89.00 LIP

89.00 FG

89.00 SW

89.00 EOC

89.00 EOA

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THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP



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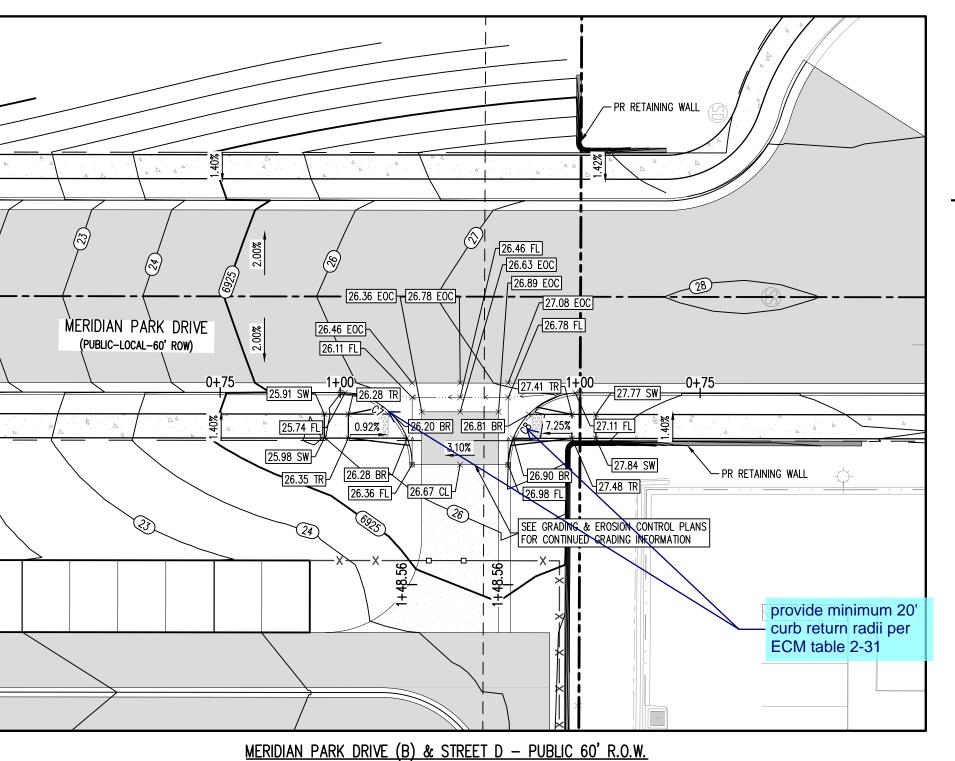
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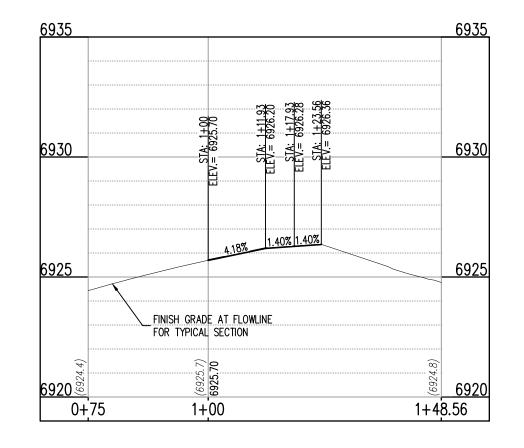
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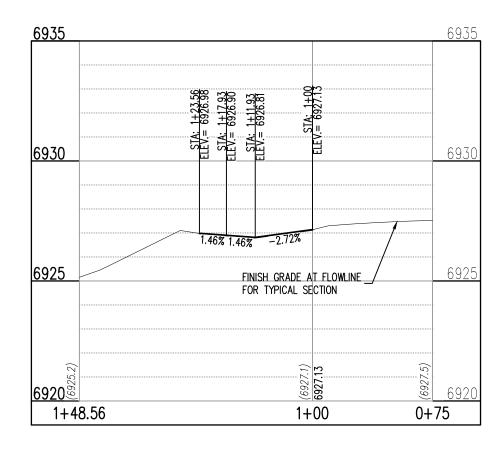
<u>ST–B & ST–D (STA: 0+75 – 1+48.56)</u> SCALES: HORIZONTAL 1"=20', VERTICAL 1"=6'

25 MPH DESIGN SPEED (LOCAL) SCALE: 1"=20'

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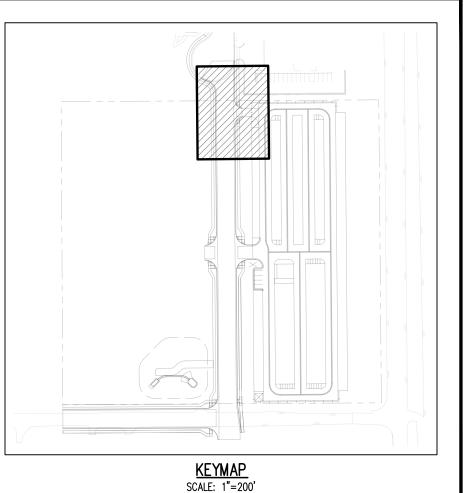
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SCALE: 1"=20'



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

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	<u>KETMAP</u> SCALE: 1"=200'	
	DETAIL GRADING LEGEND	
EXISTING WATER LINE	PROPERTY BOUNDARY LINE	
- PROPOSED WATER LINE	ADJACENT PROPERTY BOUNDARY	LINE
- EXISTING SANITARY SEWER	RIGHT OF WAY BOUNDARY LINE	
- PROPOSED SANITARY SEWER	PROPOSED LOT LINE	
$\equiv$ existing storm sewer	PROPOSED EASEMENT LINE	
PROPOSED STORM SEWER	ROAD CENTERLINE	
- EXISTING GAS LINE		
- PROPOSED GAS LINE	PROPOSED CURB AND GUTTER	
EXISTING UNDERGROUND TELEPHONE	PROPOSED SIDEWALK	
EXISTING OVERHEAD ELECTRIC		
EXISTING FIBER OPTIC LINE		
EXISTING FIBER OPTIC STRUCTURES	2.00% PROPOSED SLOPE - PERCENT	
EXISTING TELEPHONE PEDESTAL	4:1 PROPOSED SLOPE - RISE/RUN	
EXISTING ELECTRIC TRANSFORMER	89.00 HP PROPOSED SPOT ELEVATION - HI	GH PO
EXISTING POWER POLE	89.00 LP PROPOSED SPOT ELEVATION – LC	)W POI
EXISTING STREET LIGHT	89.00 TR PROPOSED SPOT ELEVATION - TO	)P OF
PROPOSED STREET LIGHT	89.00 BR PROPOSED SPOT ELEVATION - BO	DTTOM
PROPOSED WATER METER	89.00 FL PROPOSED SPOT ELEVATION - FL	.OW LIN
EXISTING WATER VALVE	89.00 CL PROPOSED SPOT ELEVATION – RC	) ADWA
PROPOSED WATER VALVE	[89.00 TBC] PROPOSED SPOT ELEVATION – TO	)P BAC
EXISTING FIRE HYDRANT	89.00 LIP PROPOSED SPOT ELEVATION – LI	POFO
PROPOSED FIRE HYDRANT	89.00 FG PROPOSED SPOT ELEVATION – FI	
EXISTING STORM SEWER MANHOLE	89.00 SW     PROPOSED SPOT ELEVATION - SI	
PROPOSED STORM SEWER MANHOLE	[89.00 EOC]     PROPOSED SPOT ELEVATION – EE	

EXISTING SANITARY SEWER MANHOLE PROPOSED SANITARY SEWER MANHOLE

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 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

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

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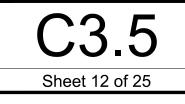
OWL PLACE ~~ CONSTRUCTION DRAWINGS MERIDIAN STORAGE MERIDIAN STORAGE, LLC SF-23-XXX SШ

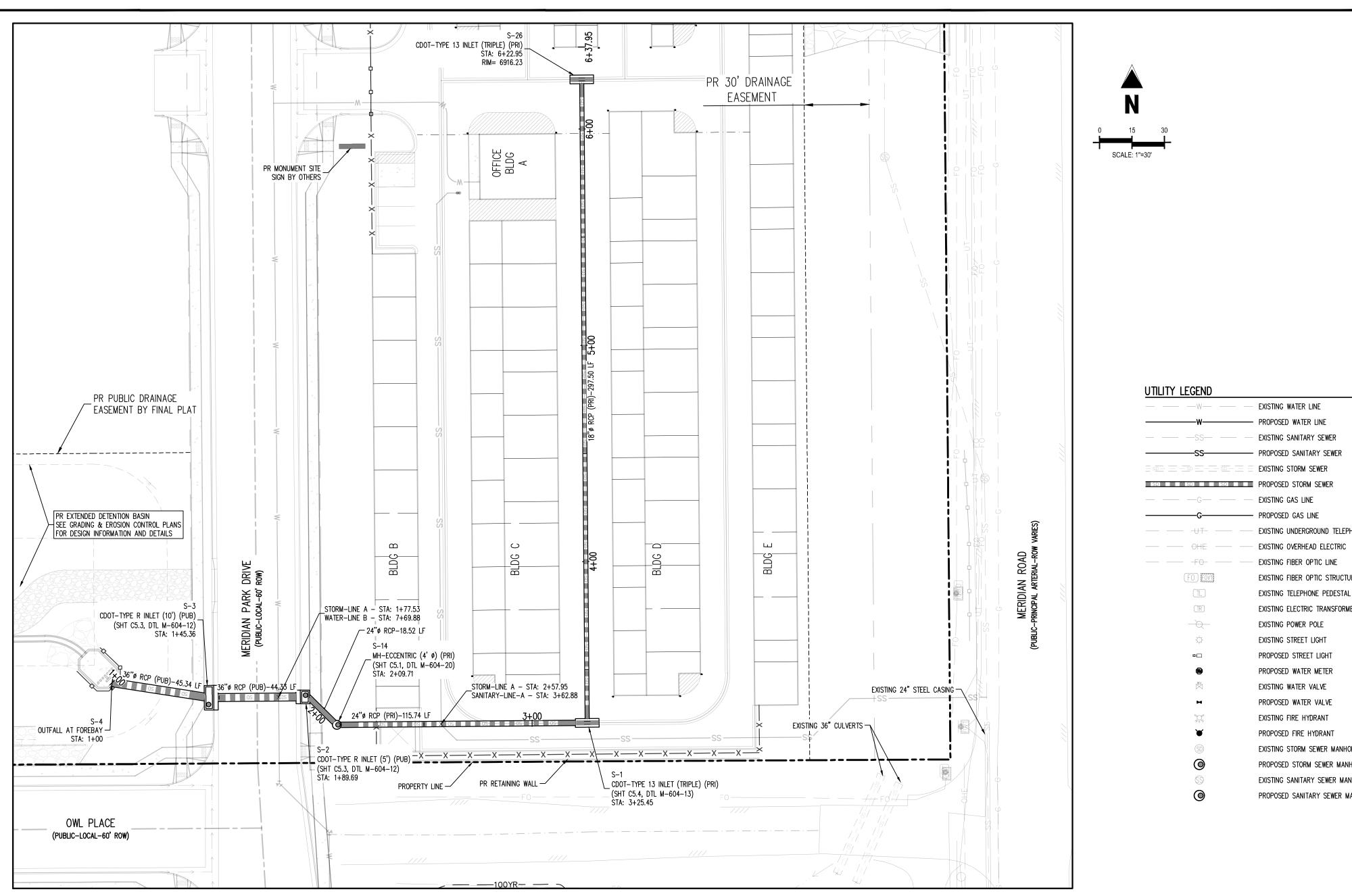
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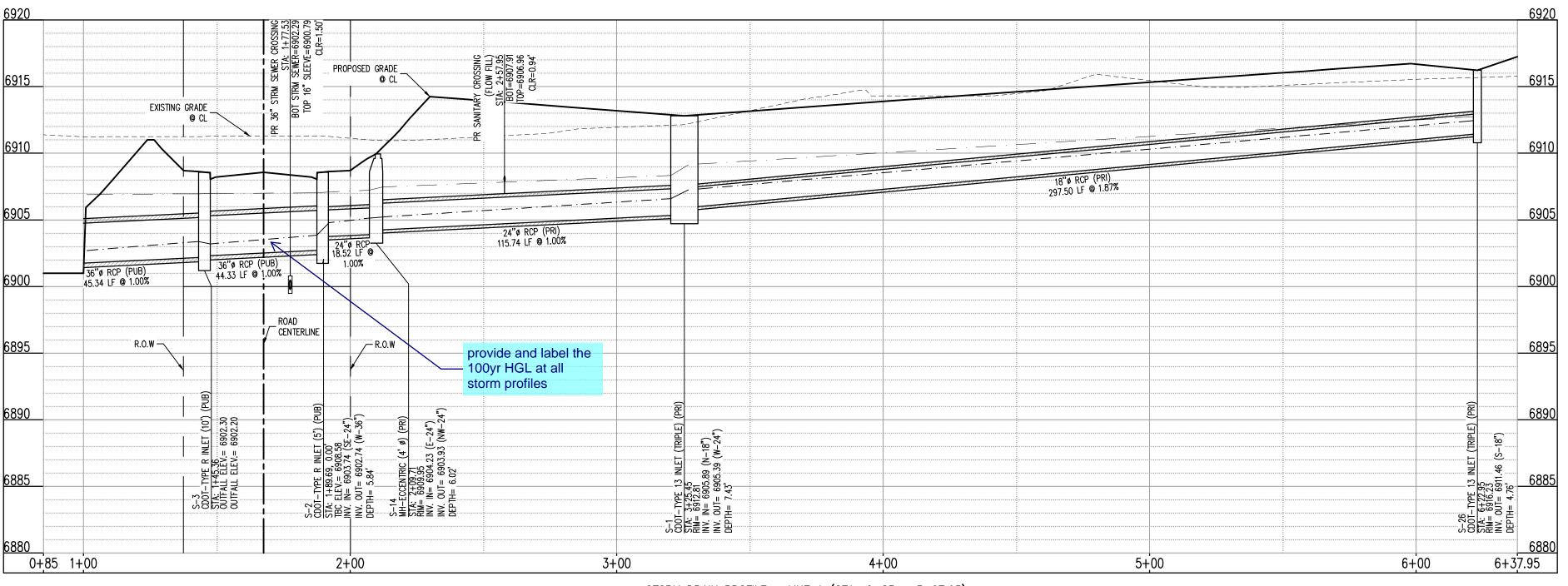
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Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

INTERSECTION DETAILS



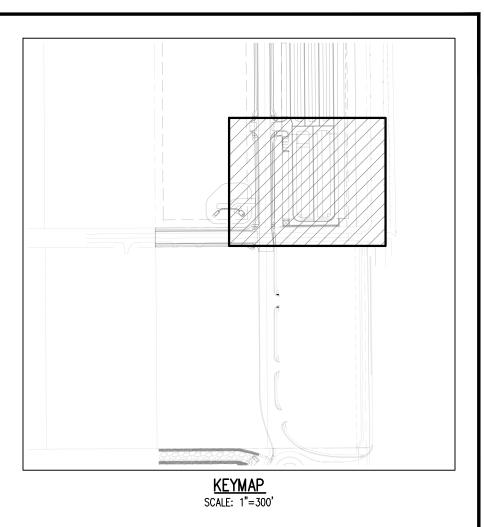




<u>Storm Drain Plan – Line A</u> SCALE: 1"=30'

STORM DRAIN PROFILE - LINE A (STA: 0+85 - 3+67.95)

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



		SITE LEGEND	
	EXISTING WATER LINE		PROJECT BOUNDARY LINE
_	PROPOSED WATER LINE		ADJACENT PROPERTY BOUNDARY L
	EXISTING SANITARY SEWER		RIGHT OF WAY LINE
_	PROPOSED SANITARY SEWER		EXISTING ADJACENT LOT LINE
_	EXISTING STORM SEWER		PROPOSED LOT LINE
	PROPOSED STORM SEWER		EXISTING EASEMENT LINE
	EXISTING GAS LINE		PROPOSED EASEMENT LINE
_	PROPOSED GAS LINE		PROPOSED ROAD CENTERLINE
	EXISTING UNDERGROUND TELEPHONE	<u> </u>	EXISTING ROAD CENTERLINE
	EXISTING OVERHEAD ELECTRIC	_·_·	PROPOSED RIDGE LINE
	EXISTING FIBER OPTIC LINE		PROPOSED SWALE LINE
	EXISTING FIBER OPTIC STRUCTURES	· · · < <u> </u>	EXISTING SWALE LINE
	EXISTING TELEPHONE PEDESTAL	100YR-	FLOODPLAIN BOUNDARY
	EXISTING ELECTRIC TRANSFORMER	X	EXISTING FENCE
	EXISTING POWER POLE	xxx	PROPOSED FENCE
	EXISTING STREET LIGHT	0	EXISTING GUARDRAIL
	PROPOSED STREET LIGHT		PROPOSED CURB AND GUTTER
	PROPOSED WATER METER		EXISTING CURB AND GUTTER
	EXISTING WATER VALVE		EXISTING EDGE OF ASPHALT
	PROPOSED WATER VALVE		PROPOSED SIDEWALK
	EXISTING FIRE HYDRANT		PROPOSED TRAIL
	PROPOSED FIRE HYDRANT		PROPOSED GRAVEL PER ECM TABL
	EXISTING STORM SEWER MANHOLE		RIPRAP OUTFALL PADS
	PROPOSED STORM SEWER MANHOLE	0	EXISTING SIGN
	EXISTING SANITARY SEWER MANHOLE	<u>o</u>	PROPOSED SIGN
	PROPOSED SANITARY SEWER MANHOLE	٠	PROPOSED BOLLARDS

E 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
	FLOODPLAIN BOUNDARY
X	EXISTING FENCE
x—_x—_x—_	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

CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP) ASSUMES WALL THICKNESS AS SHOWN BELOW:						
PIPE I.D.	WALL THICKNESS	PIPE O.D.				
(INCHES)	(INCHES)	(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	66.50				
60	6.00	73.50				
66	6.50	80.50				

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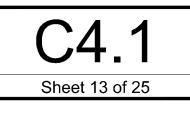


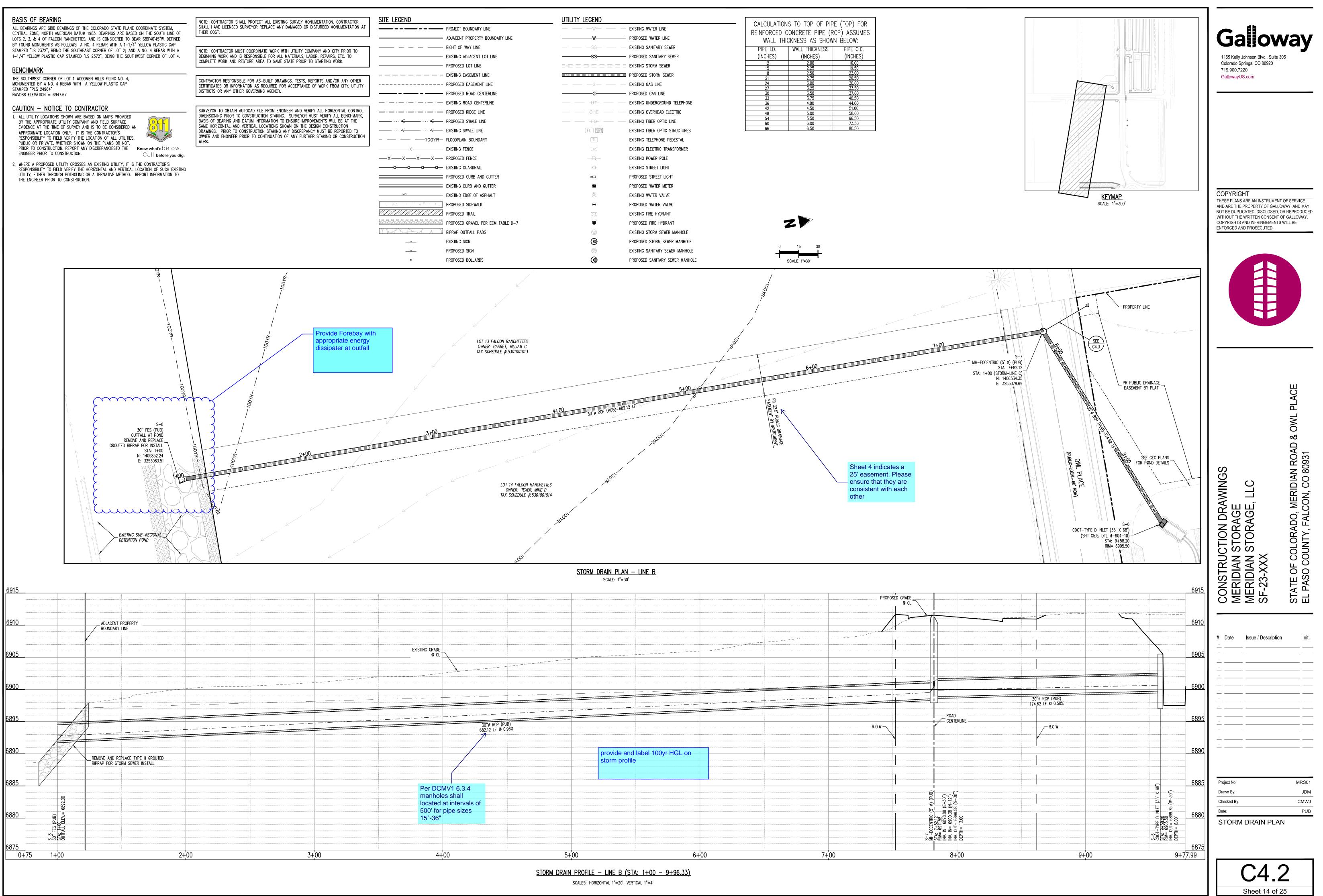
- Ca|| before you dig.
- 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

COPYRIGHT THESE PLANS ARE AN INSTRUME AND ARE THE PROPERTY OF GAN NOT BE DUPLICATED, DISCLOSEI WITHOUT THE WRITTEN CONSEN COPYRIGHTS AND INFRINGEMEN ENFORCED AND PROSECUTED.	ENT OF SERVICE LLOWAY, AND MAY D, OR REPRODUCED IT OF GALLOWAY.
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 / Descript	ion Init.

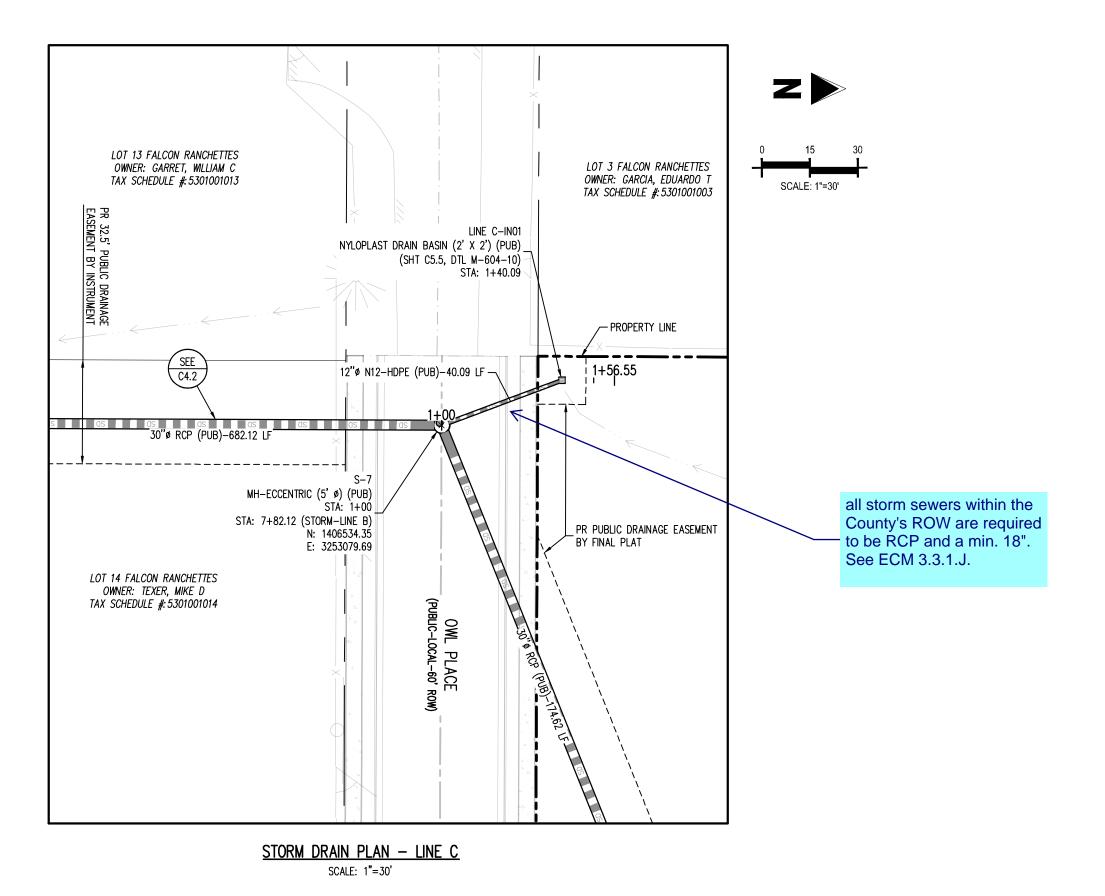
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

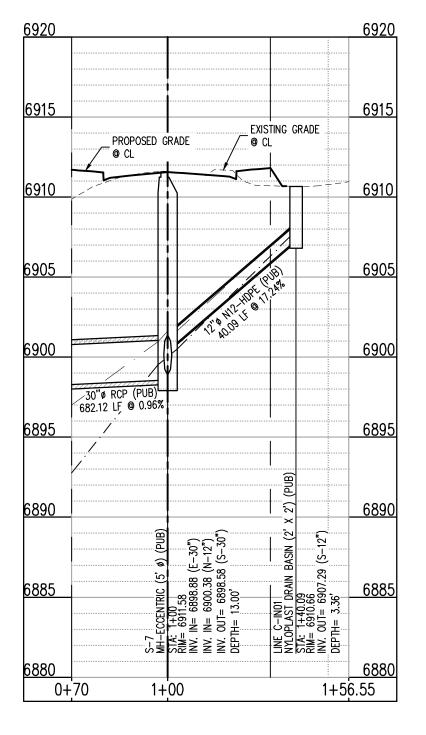
STORM DRAIN PLAN



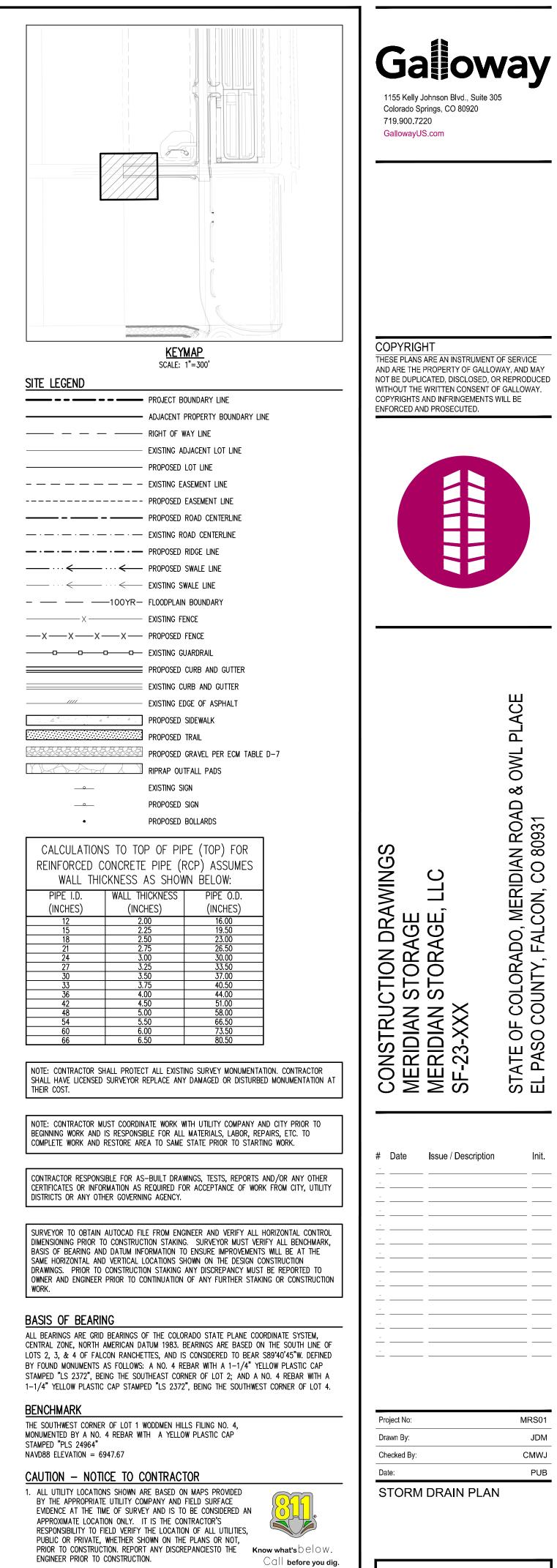


an Storage LLC/CO, El Paso County - MRS01 - Storage/OCIV/3-CD/PUB/MRS01\_C4.3 - Storm Drain Plan.cwg - Caleb Johnson - 4/23/2023



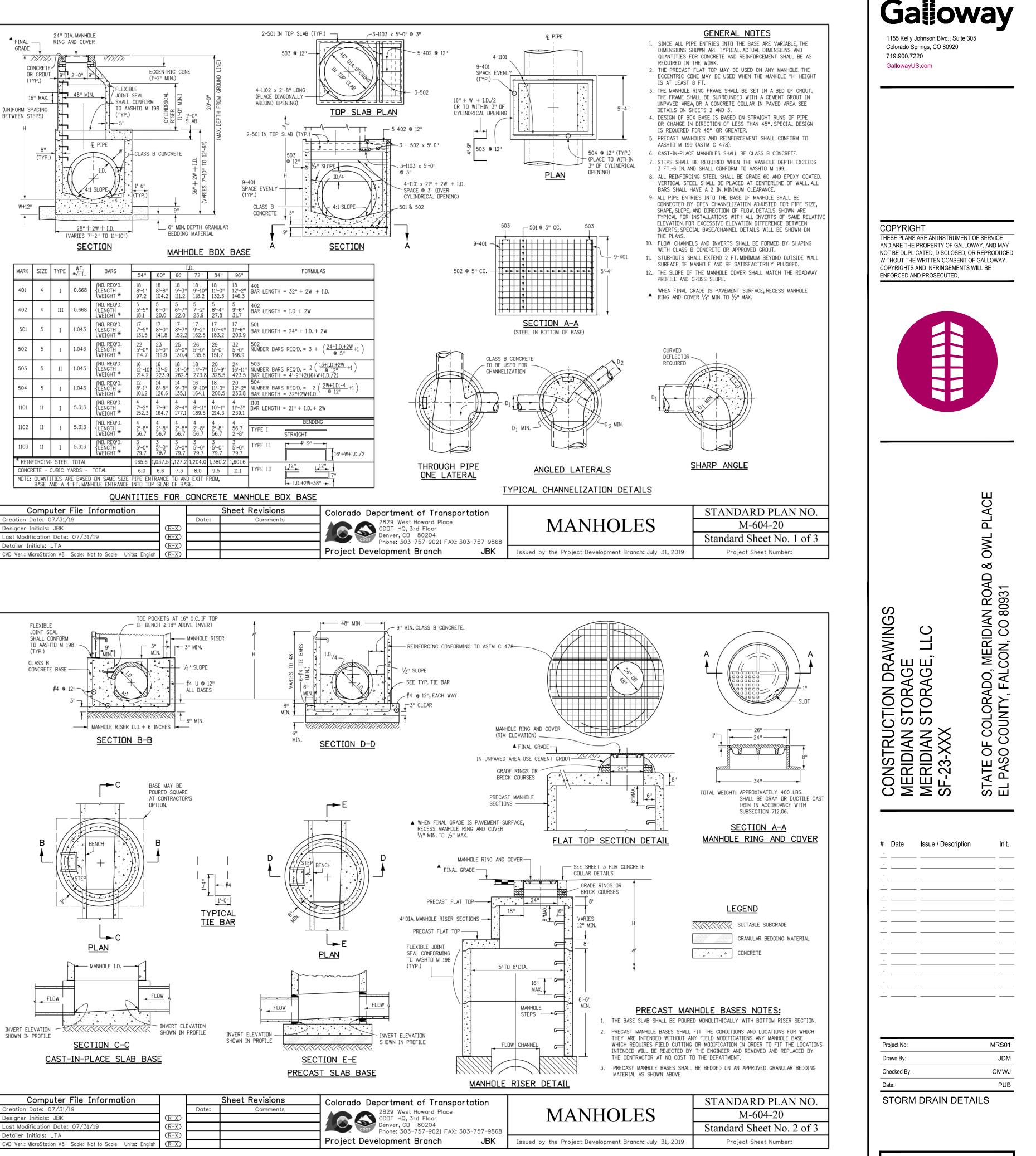


SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



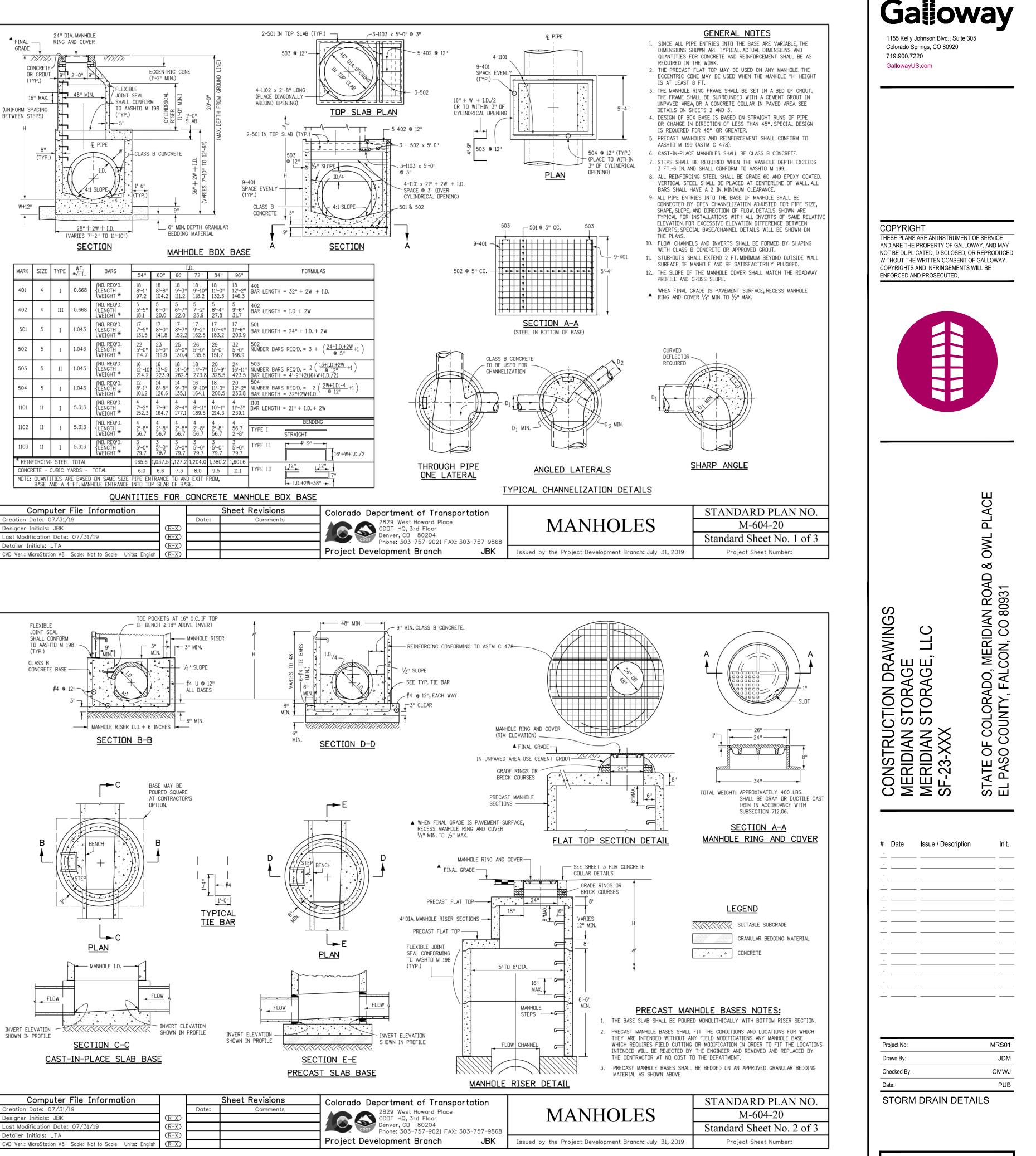
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

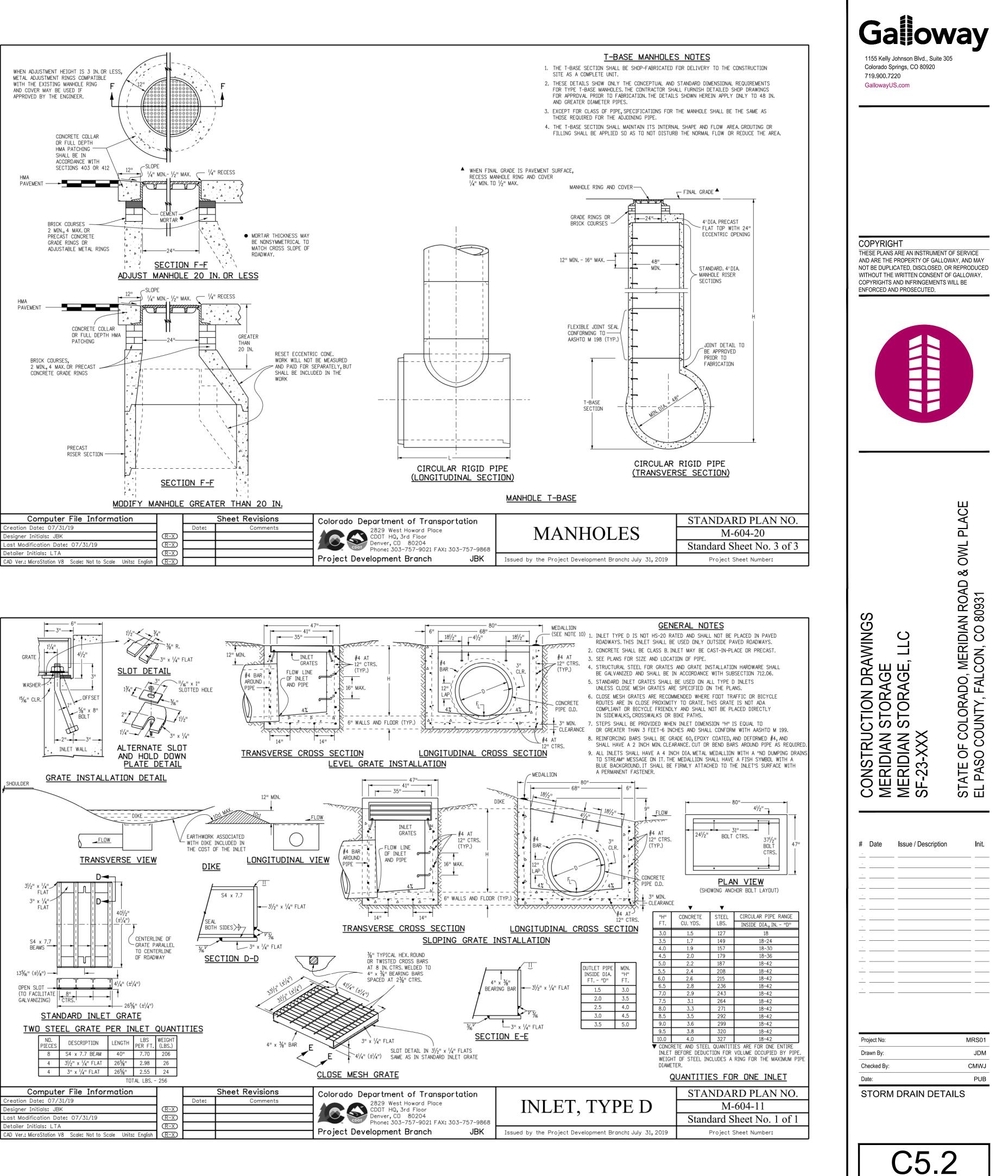
C4.3 Sheet 15 of 25



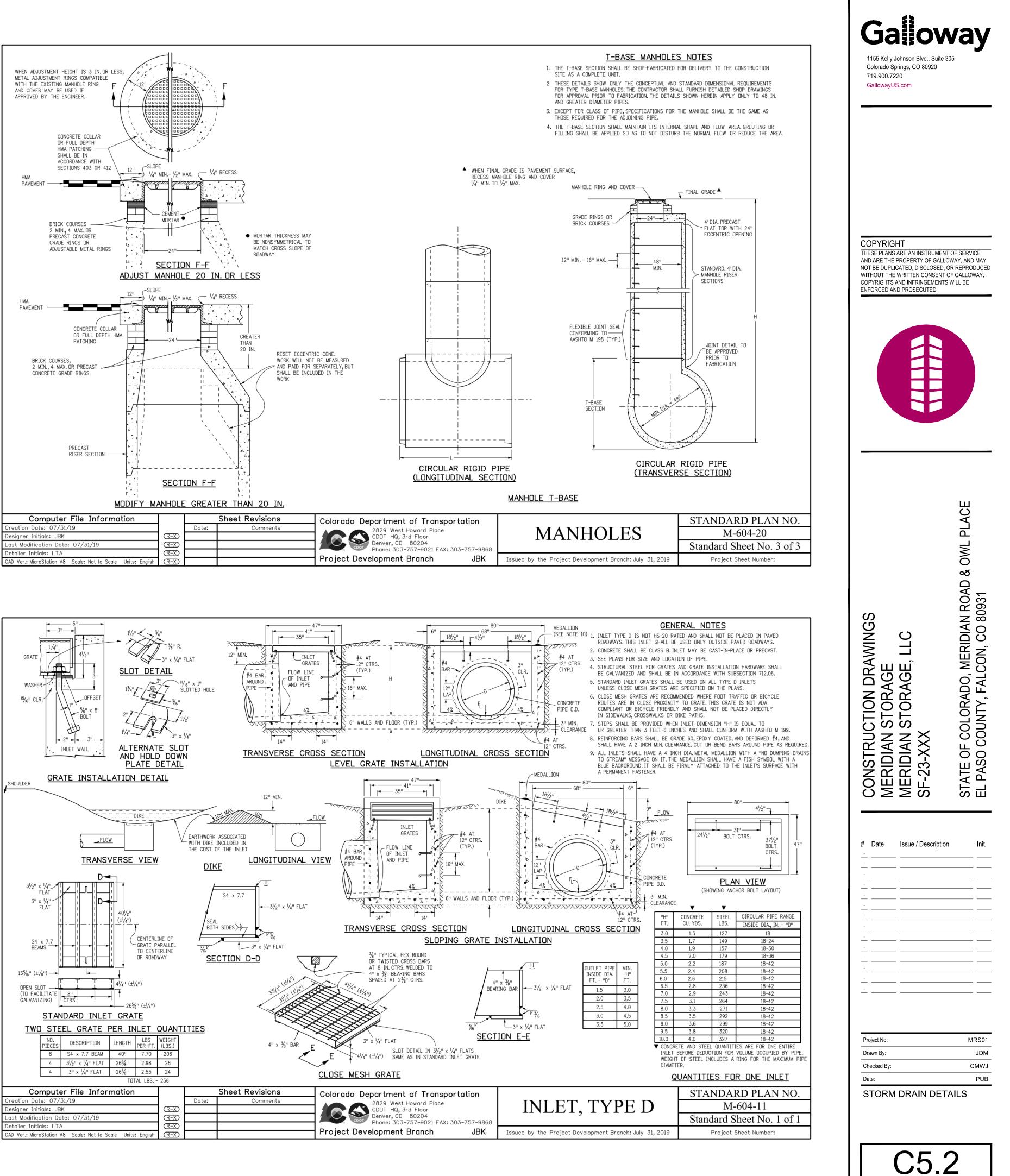
C5

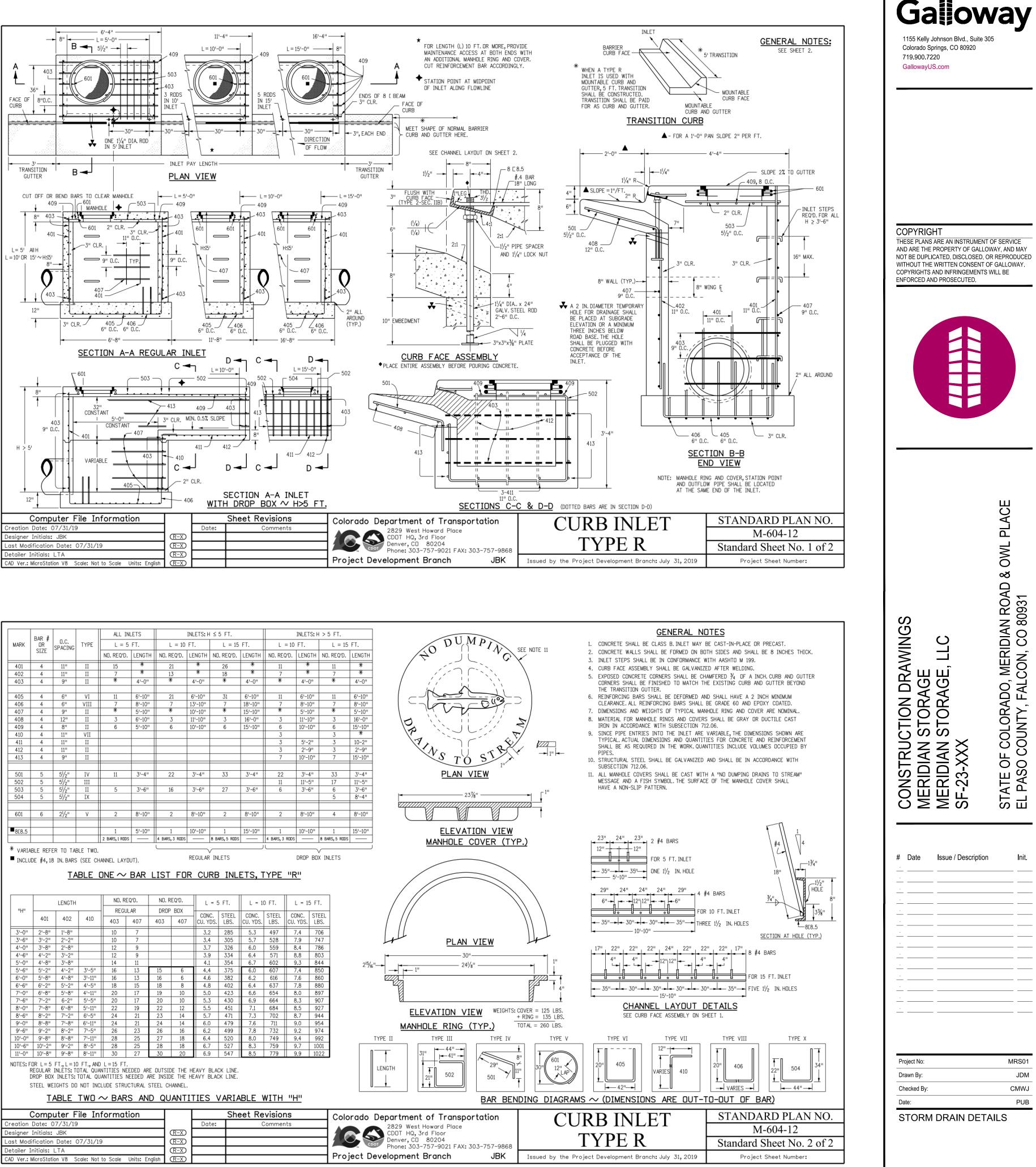
Sheet 16 of 25



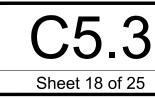


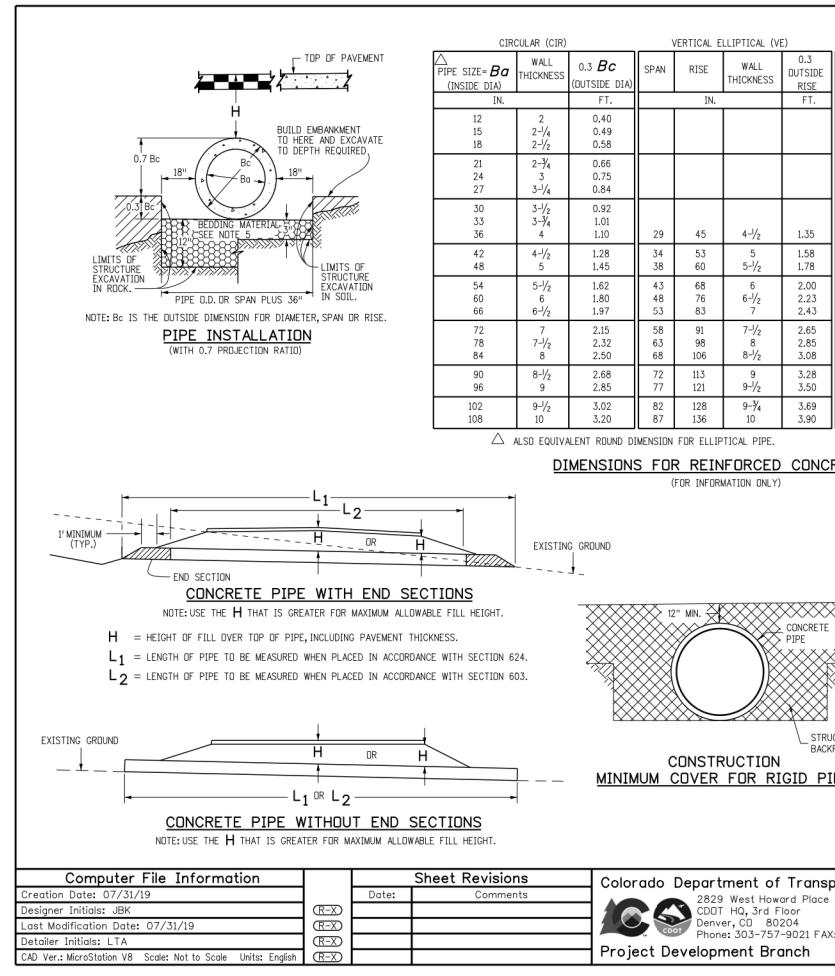
Sheet 17 of 25

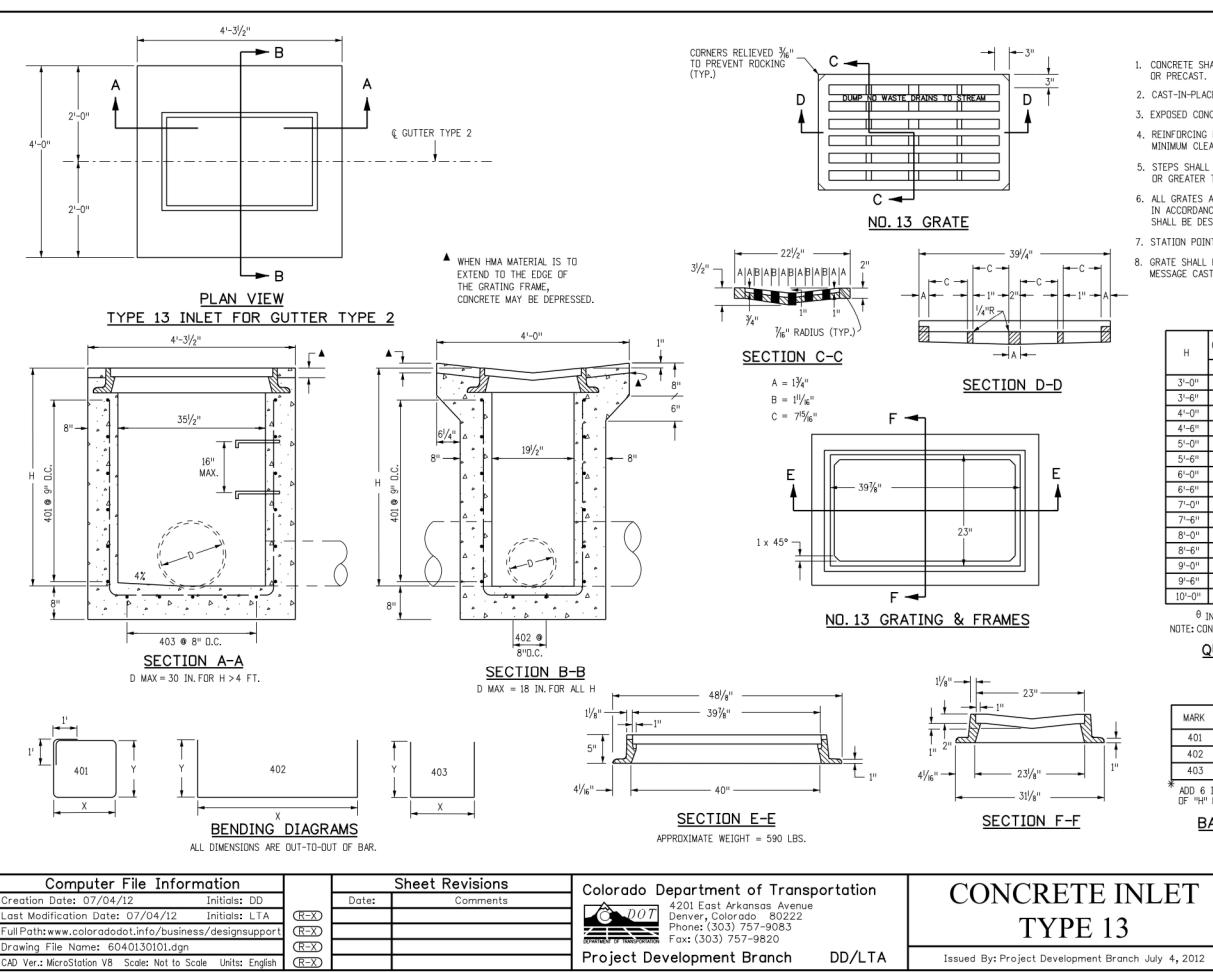




	BAR #			ALL I	NLETS			INLETS: H	≤5 FT.			INLET	S:H > 5	FT.				/
MARK	OR SIZE	D.C. SPACING	TYPE	L = \$	5 FT.		L = 10	FT.	L = 15	FT.	L =	= 10 FT.		L = 15	FT.		6	5
	SIZE			NO. REQ'D		H NO. I	REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ			REQ'D.	LENGTH		A	5
401 402	4	11" 11"	II II	15 7	*		21 13	*	26 18	*	11	*		11 7	*		/	/
402	4	9"	II	*	4'-0''		*	4'-0"	*	4'-0"	*	4'-0		*	4'-0"	/	/ /	<i>' ;</i> '
405	4	6"	VI	11	6'-10''		21	6'-10''	31	6'-10''	11	6'-10	10	11	6'-10''		/r	6
406	4	6"	VIII	7	8'-10"		7	13'-10"	7	18'-10"	7	8'-10	)"	7	8'-10"		$\subset \neg$	Ī
407 408	4	9" 12"	II II	*	5'-10"		*	10'-10" 11'-10"	*	15'-10"	*	5'-10	, <u> </u>	*	5'-10" 16'-0"			1
408	4	8"	II	6	5'-10"		6	10'-10"	6	15'-10"	6	10'-10		6	15'-10"	,	E ,	$\dot{}$
410 411	4	11" 11"	VII II								3	5'-2		3 3	* 10-2"		1/2	
411	4	11"	II								3	2'-9	_	3	2'-9"			12
413	4	9"	II								7	10'-1	)" 	7	15'-10"		DRAI	~
501	5	5 <sup> </sup> /2"	IV	11	3'-4"		22	3'-4"	33	3'-4"	22	3'-4	0	33	3'-4"			
502	5	5 <sup> </sup> /2"	III				~~	0 1			11	11'-5	_	17	11'-5"			
503 504	5	51/2" 51/2"	II IX	5	3'-6"		16	3'-6"	27	3'-6"	6	3'-6	"	6 5	3'-6" 8'-4"	H		
50+		572	17		+	+							-	5	0 +	E		Π
601	6	21/2"	٧	2	8'-10''		2	8'-10''	2	8'-10"	2	8'-10	)"	4	8'-10''			]
8[8.5				1	5'-10"		1	10'-10''	1	15'-10"	1	10'-1		1	15'-10"			E
010.0				2 BARS, 1 ROD			s,3 RODS		8 BARS, 5 RODS	-	4 BARS, 3 I		_	S,5 RODS			м	! IAN
VARIA	ABLE REF	ER TO TAE	BLE TWO.			$\square$							~		)		<u></u>	
			BLE				F FO		RB INL	1						/		
"H"		LENGTH	1	11	Q'D.	NO. I		L	= 5 FT.	L = 1	0 FT.	L = 15				(		
	401	LENGTH 402	<b>BLE</b> 410	ND. RE REGU 403	Q'D. LAR 407	NO. I	REQ'D.	L CON CU. Y	= 5 FT. C. STEEL DS. LBS.	L = 1 CONC. CU. YDS.	0 FT. STEEL LBS.	L = 15 CONC. CU. YDS.	STEEL LBS.					
3'-0"	2'-8"	LENGTH 402 1'-8''	1	ND. RE REGU 403 10	Q'D. LAR 407 7	NO. I DROI	REQ'D. P BOX	L CON CU. Y 3.2	= 5 FT. C. STEEL DS. LBS. 285	L = 1 CDNC. CU. YDS. 5.3	0 FT. STEEL LBS. 497	L = 15 CONC. CU. YDS. 7.4	STEEL LBS. 706					
3'-0'' 3'-6'' 4'-0''	2'-8'' 3'-2'' 3'-8''	LENGTH 402	1	ND. RE REGU 403 10 10 12	Q'D. LAR 407	NO. I DROI	REQ'D. P BOX	L CON CU. Y	= 5 FT. C. STEEL DS. LBS. 285 305	L = 1 CONC. CU. YDS.	0 FT. STEEL LBS.	L = 15 CONC. CU. YDS.	STEEL LBS.					
3'-0" 3'-6" 4'-0" 4'-6"	2'-8" 3'-2" 3'-8" 4'-2"	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2"	1	ND. RE REGU 403 10 10 12 12 12	CQ'D. LAR 407 7 7 9 9 9	NO. I DROI	REQ'D. P BOX	L CON CU. Y 3.2 3.4 3.7 3.9	= 5 FT. C. STEEL LBS. 285 305 7 326 334	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4	0 FT. STEEL LBS. 497 528 559 571	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8	STEEL LBS. 706 747 786 803		015/			_
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6"	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2"	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2"	410	ND. RE REGU 403 10 10 12 12 12 14 16	(Q'D. LAR 407 7 9 9 9 11 13	ND. 1 DR01 403	REQ'D. PBDX 407	L CON CU. Y 3.2 3.4 3.7 3.5 4.1 4.4	= 5 FT. C. STEEL LBS. 285 305 7 326 334 354 375	L = 1 CONC. CU. YDS. 5.3 5.7 6.0	0 FT. STEEL LBS. 497 528 559	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4	STEEL LBS. 706 747 786 803 844 850		2 <sup>15</sup> / <sub>16</sub>	                 		
3'-0'' 3'-6'' 4'-0'' 4'-6'' 5'-0'' 5'-6'' 6'-0''	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8"	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8"	410 3'-5'' 3'-11''	ND. RF REGU 403 10 10 12 12 12 14 16 16	IQ'D. LAR 407 7 9 9 11 13 13	ND. 1 DR01 403 15 16	REQ'D. P BOX 407 6 6	L CON CU. Y 3.2 3.4 3.7 3.5 4.1 4.2 4.2 4.6	= 5 FT. C. STEEL LBS. 2 285 3 305 3 326 3 334 3 54 3 354 3 352 3 382	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.2	0 FT. STEEL LBS. 497 528 559 571 602 607 616	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6	STEEL LBS. 706 747 786 803 844 850 860		2 <sup>15</sup> / <sub>16</sub>			
3'-0'' 3'-6'' 4'-0'' 5'-0'' 5'-6'' 6'-0'' 6'-0'' 7'-0''	2'-8'' 3'-2'' 3'-8'' 4'-2'' 4'-8'' 5'-2'' 5'-8'' 6'-2'' 6'-8''	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-2" 4'-8" 5'-2" 5'-8"	410 3'-5" 3'-11" 4'-5" 4'-11"	ND. REGU 403 10 10 12 12 14 16 16 18 20	2Q'D. LAR 407 7 9 9 11 13 13 13 15 17	ND. 1 DR0/ 403 15 16 18 19	REQ'D. P BDX 407 6 6 6 8 10	L CON CU. Y 3.2 3.2 3.7 3.5 4.1 4.2 4.2 4.6 4.6 5.0	= 5 FT. C. STEEL LBS. 2 285 3 305 3 326 3 334 3 54 3 354 3 354 3 354 3 354 3 352 3 402 0 423	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0	STEEL LBS. 706 747 786 803 844 850 860 880 880 897		2 <sup>15</sup> ⁄16		- 1"	
3'-0" 3'-6" 4'-0" 5'-0" 5'-6" 6'-0" 6'-6" 7'-0" 7'-6"	2'-8'' 3'-2'' 4'-2'' 4'-8'' 5'-2'' 5'-8'' 6'-2'' 6'-8'' 7'-2''	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-2" 4'-8" 5'-2" 5'-8" 6-2"	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5"	ND. REGU 403 10 10 12 12 14 16 16 18 20 20	2Q'D. LAR 407 7 9 9 11 13 13 13 15 17 17	ND. 1 DR0 403 15 16 18 19 20	REQ'D. P BOX 407 6 6 6 8 10 10	L CON CU. Y 3.2 3.2 3.7 3.7 3.7 4.1 4.2 4.2 4.2 4.2 5.0 5.3	= 5 FT. C. STEEL DS. 285 305 326 334 354 354 375 382 402 423 430	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3	STEEL           LBS.           706           747           786           803           844           850           860           880           897           907		2 <sup>15</sup> ⁄16			
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6" 6'-6" 6'-0" 6'-6" 7'-0" 7'-6" 8'-0" 8'-6"	$\begin{array}{c} 2^{1}-8^{\prime\prime\prime}\\ 3^{1}-2^{\prime\prime\prime}\\ 3^{1}-8^{\prime\prime\prime}\\ 4^{1}-2^{\prime\prime\prime}\\ 4^{1}-8^{\prime\prime\prime}\\ 5^{1}-2^{\prime\prime\prime}\\ 5^{1}-8^{\prime\prime\prime}\\ 6^{1}-2^{\prime\prime\prime}\\ 6^{1}-8^{\prime\prime\prime}\\ 7^{1}-2^{\prime\prime\prime}\\ 7^{1}-8^{\prime\prime\prime}\\ 8^{1}-2^{\prime\prime\prime}\end{array}$	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 7'-2"	410 3 <sup>1</sup> -5 <sup>11</sup> 3 <sup>1</sup> -11 <sup>11</sup> 4 <sup>1</sup> -5 <sup>11</sup> 5 <sup>1</sup> -5 <sup>11</sup> 5 <sup>1</sup> -5 <sup>11</sup>	ND. REGU 403 10 10 12 12 14 16 16 18 20 20 22 24	2Q'D. LAR 407 7 7 9 9 9 11 13 13 13 15 17 17 17 19 21	ND. 1 DR01 403 15 16 18 19 20 22 23	REQ'D. P BOX 407 407 6 6 6 8 10 10 12 14	L CON CU. Y 3.2 3.2 3.2 3.2 3.2 4.1 4.2 4.2 4.2 4.2 5.0 5.3 5.5 5.7	= 5 FT. C. STEEL LBS. 285 305 326 334 354 354 375 382 402 423 430 430 451 7 471	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 684 702	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7	STEEL LBS. 706 747 786 803 844 850 860 880 880 880 897 907 927 927 944		2 <sup>15</sup> ⁄16			
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6" 6'-6" 6'-6" 7'-0" 7'-6" 8'-0" 8'-0" 8'-6" 9'-0"	$\begin{array}{c} 2^{1}-8^{11}\\ 3^{1}-2^{11}\\ 3^{1}-8^{11}\\ 4^{1}-2^{11}\\ 4^{1}-8^{11}\\ 5^{1}-2^{11}\\ 5^{1}-2^{11}\\ 5^{1}-8^{11}\\ 6^{1}-2^{11}\\ 6^{1}-8^{11}\\ 7^{1}-2^{11}\\ 7^{1}-8^{11}\\ 8^{1}-2^{11}\\ 8^{1}-8^{11}\\ 8^{1}-8^{11}\end{array}$	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6-2" 6'-8" 7'-2" 7'-8"	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11"	ND. RE REGU 403 10 10 12 12 14 16 16 16 18 20 20 20 22 24 24 24	EQ'D. LAR 407 7 7 9 9 9 11 13 13 13 15 17 17 17 19 21 21	ND. 1 DR01 403 15 16 18 19 20 22 23 24	REQ'D. P BOX 407 407 6 6 6 8 10 10 12 14 14	L CON CU. Y 3.2 3.4 3.7 3.6 4.1 4.4 4.6 5.0 5.5 5.5 5.7 6.0	= 5 FT. C. STEEL DS. 285 2 285 3 305 7 326 9 334 354 354 354 354 354 354 354	L = 1 CUNC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6	0 FT. STEEL LBS. 497 528 559 571 602 602 607 616 637 654 664 664 684 702 711	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.0 8.3 8.5 8.7 9.0	STEEL LBS. 706 747 786 803 844 850 860 880 880 880 897 907 927 927 924 954		2 <sup>15</sup> ⁄16			
3'-0'' 3'-6'' 4'-0'' 5'-0'' 5'-6'' 6'-0'' 6'-6'' 7'-0'' 7'-6'' 8'-0'' 8'-0'' 8'-0'' 8'-0'' 9'-0'' 9'-0''	$\begin{array}{c} 2^{1}-8^{\prime\prime\prime}\\ 3^{1}-2^{\prime\prime\prime}\\ 3^{1}-8^{\prime\prime\prime}\\ 4^{1}-2^{\prime\prime\prime}\\ 4^{1}-8^{\prime\prime\prime}\\ 5^{1}-2^{\prime\prime\prime}\\ 5^{1}-8^{\prime\prime\prime}\\ 6^{1}-2^{\prime\prime\prime}\\ 6^{1}-8^{\prime\prime\prime}\\ 7^{1}-2^{\prime\prime\prime}\\ 7^{1}-8^{\prime\prime\prime}\\ 8^{1}-2^{\prime\prime\prime}\end{array}$	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 7'-2"	410 3 <sup>1</sup> -5 <sup>11</sup> 3 <sup>1</sup> -11 <sup>11</sup> 4 <sup>1</sup> -5 <sup>11</sup> 5 <sup>1</sup> -5 <sup>11</sup> 5 <sup>1</sup> -5 <sup>11</sup>	ND. REGU 403 10 10 12 12 14 16 16 18 20 20 22 24	2Q'D. LAR 407 7 7 9 9 9 11 13 13 13 15 17 17 17 19 21	ND. 1 DR01 403 15 16 18 19 20 22 23	REQ'D. P BOX 407 407 6 6 6 8 10 10 12 14	L CON CU. Y 3.2 3.2 3.2 3.2 3.2 4.1 4.2 4.2 4.2 4.2 5.0 5.3 5.5 5.7	= 5 FT. C. STEEL DS. 285 285 305 326 334 354 354 354 354 354 354 354	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 684 702	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7	STEEL LBS. 706 747 786 803 844 850 860 880 880 880 897 907 927 927 944				<u>ELEV</u>	.E
3'-0'' 3'-6'' 4'-0'' 5'-0'' 5'-6'' 6'-0'' 6'-0'' 7'-6'' 8'-0'' 8'-0'' 8'-6'' 9'-0'' 9'-0'' 9'-0'' 9'-0'' 10'-0'' 10'-0''	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-2" 8'-2" 8'-8" 9'-2" 9'-8" 10'-2"	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 6'-8" 7'-2" 6'-8" 7'-2" 8'-2" 8'-8" 9'-2"	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5"	ND. Rf REGU 403 10 10 12 12 12 14 16 16 16 18 20 20 20 22 24 24 24 24 26 28 28 28	Image: CQ'D.           LAR           407           7           9           9           11           13           15           17           19           21           23           25           25	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28	REQ'D. P BOX 407 407 6 6 6 8 10 10 12 14 14 16 18 18	L CON CU. Y 3.2 3.4 3.7 3.6 4.1 4.4 4.6 5.0 5.5 5.7 6.0 6.2 6.4 6.7	= 5 FT. C. STEEL DS. 285 2 285 3 305 3 326 3 354 3 354 3 354 3 354 3 354 3 354 3 402 4 402 4 402 4 402 4 402 4 402 4 402 4 402 4 402 4 471 4 479 4 999 5 520 7 527	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749 759	L = 15 CDNC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7	STEEL           LBS.           706           747           786           803           844           850           860           897           907           927           944           954           974           992           1001				<u>ELEV</u>	.Е ТҮР
3'-0'' 3'-6'' 4'-0'' 5'-6'' 5'-6'' 5'-6'' 5'-6'' 6'-0'' 7'-0'' 7'-6'' 8'-6'' 9'-0'' 9'-6'' 10'-0'' 10'-0'' 11'-0''	21-8" 31-2" 31-2" 31-8" 41-2" 41-8" 51-2" 51-8" 61-2" 61-8" 71-2" 71-8" 81-2" 81-8" 91-2" 91-8" 101-2" 101-8"	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 7'-2" 6'-8" 7'-2" 8'-8" 8'-2" 8'-8" 9'-2" 9'-8"	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5" 8'-11"	ND. RE REGU 403 10 10 12 12 14 16 16 16 18 20 20 20 22 24 24 24 24 26 28 28 30	CQ'D.           LAR           407           7           9           9           11           13           15           17           19           21           23           25           25           27	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27	REQ'D. P BOX 407 407 6 6 6 8 10 10 12 14 14 16 18	L CON CU. Y 3.2 3.4 3.7 3.6 4.1 4.4 4.6 4.6 5.0 5.5 5.5 5.7 6.0 6.2 6.4	= 5 FT. C. STEEL DS. 285 2 285 3 305 3 326 3 354 3 354 3 354 3 354 3 354 3 354 3 402 4 402 4 402 4 402 4 402 4 402 4 402 4 402 4 402 4 471 4 479 4 999 5 520 7 527	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749	L = 15 CDNC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.0 8.3 8.5 8.7 9.0 9.2 9.4	STEEL LBS. 706 747 786 803 844 850 860 880 880 880 897 907 927 927 924 954 954 974 992				<u>ELEV</u>	E TYP
3'-0'' 3'-6'' 4'-0'' 4'-6'' 5'-6'' 5'-6'' 6'-0'' 5'-6'' 6'-0'' 7'-6'' 8'-6'' 9'-0'' 9'-6'' 8'-6'' 9'-0'' 9'-6'' 10'-0'' 10'-6'' 11'-0''	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-8" 9'-2" 9'-8" 9'-2" 9'-8" 10'-2" 10'-8"	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-2" 8'-2" 9'-2" 9'-8" FT., L = 10 IN FTS: TI	410 3'-5'' 3'-11'' 4'-5'' 5'-5'' 5'-11'' 6'-5'' 6'-11'' 7'-5'' 7'-11'' 8'-5'' 8'-11'' 0 FT., AND	ND. Rf REGU 403 10 10 12 12 14 16 16 18 20 20 20 22 24 24 24 24 24 26 28 28 30 0 L = 15 FT	EQ'D. LAR 407 7 9 9 9 11 13 13 13 15 17 17 17 17 19 21 21 21 23 25 25 25 27 EDED AR	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 E DUTSI	REQ'D. P BDX 407 407 6 6 6 8 10 10 10 12 14 14 16 18 18 20 DE THE	L CON CU. Y 3.2 3.4 3.7 3.5 4.1 4.2 4.6 5.7 5.7 5.7 6.0 6.2 6.2 6.4 6.7 6.5	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 9 334 3 54 3 354 3 354 3 354 3 354 3 354 3 354 3 402 9 423 9 402 9 423 9 402 9 423 9 4423 9 4423 9 4451 7 471 9 479 1 479 2 520 7 527 9 527 9 547 8 ACK LINE	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749 759	L = 15 CDNC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7	STEEL           LBS.           706           747           786           803           844           850           860           897           907           927           944           954           974           992           1001					
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6" 6'-0" 5'-6" 6'-0" 7'-0" 7'-6" 8'-0" 8'-6" 9'-0" 9'-0" 9'-6" 10'-0" 10'-6" 11'-0" DTES: F	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-8" 9'-2" 9'-8" 10'-2" 10'-8" CR L = 5 REGULAR DROP BO)	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 7'-2" 6'-8" 7'-2" 8'-2" 8'-2" 8'-2" 8'-2" 9'-2" 9'-8" FT., L = 10 INLETS: TI (INLETS: TI	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5" 8'-11" 0 FT., AND DTAL QU/ TOTAL QU	ND. RE           REGU           403           10           12           14           16           18           20           22           24           26           28           30           0           15           NTITIES	EQ'D. LAR 407 7 7 9 9 9 11 13 13 13 15 17 17 17 17 19 21 21 21 23 25 25 25 27 EDED AR IEEDED AR	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 E DUTSI RE INSI	REQ'D. P BOX 407 407 6 6 6 8 10 10 12 14 14 14 16 18 18 20 DE THE DE THE	L CON CU. Y 3.2 3.2 3.2 3.2 3.2 4.1 4.2 4.6 5.0 5.5 5.7 6.0 6.2 6.2 6.2 6.2 6.4 HEAVY E	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 9 334 3 54 3 354 3 354 3 354 3 354 3 354 3 354 3 402 9 423 9 402 9 423 9 402 9 423 9 4423 9 4423 9 4451 7 471 9 479 1 479 2 520 7 527 9 527 9 547 8 ACK LINE	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749 759	L = 15 CDNC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7	STEEL           LBS.           706           747           786           803           844           850           860           897           907           927           944           954           974           992           1001				<u>ELEV</u>	E TYP
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6" 6'-0" 5'-6" 6'-0" 7'-0" 7'-6" 8'-0" 8'-6" 9'-0" 9'-0" 9'-6" 10'-0" 10'-6" 11'-0" DTES: F	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-8" 9'-2" 9'-8" 10'-2" 10'-8" 5OR L = 5 REGULAR DROP BD) STEEL WE	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-8" 6'-8" 7'-2" 7'-8" 8'-2" 8'-2" 8'-2" 8'-2" 9'-8" 9'-2" 9'-8" FT., L = 10 INLETS: TO CIGHTS DO	410 3'-5'' 3'-11'' 4'-5'' 4'-11'' 5'-5'' 5'-11'' 6'-5'' 6'-11'' 7'-5'' 7'-11'' 8'-5'' 8'-11'' 8'-5'' 8'-11'' 0'T, AND DTAL QUA NOT INC	ND. Rf           REGU           403           10           12           12           14           16           18           20           22           24           26           28           30           0           15           NTITIES           NUL = 15	Image: Constraint of the second sec	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 24 26 27 28 30 5TEEL C	REQ'D. P BDX 407 407 6 6 8 10 10 12 14 14 16 18 18 18 20 DE THE HANNEL.	L CON CU. Y 3.2 3.4 3.7 3.9 4.1 4.2 4.6 5.7 5.7 5.7 6.0 6.2 6.4 6.2 6.4 6.7 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 3 334 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 402 0 423 0 5 2 7 5 27 0 547 BLACK LINE.	L = 1 CUNC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3 8.5	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 684 702 711 732 749 759 779	L = 15 CDNC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7 9.9	STEEL           LBS.           706           747           786           803           844           850           860           897           907           927           944           954           974           992           1001					E TYP
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6" 6'-0" 5'-6" 6'-0" 7'-0" 7'-6" 8'-0" 8'-6" 9'-0" 9'-0" 9'-6" 10'-0" 10'-6" 11'-0" DTES: F	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-8" 9'-2" 9'-8" 10'-2" 10'-8" 5OR L = 5 REGULAR DROP BD) STEEL WE	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-8" 6'-8" 7'-2" 7'-8" 8'-2" 8'-2" 8'-2" 8'-2" 9'-8" 9'-2" 9'-8" FT., L = 10 INLETS: TO CIGHTS DO	410 3'-5'' 3'-11'' 4'-5'' 4'-11'' 5'-5'' 5'-11'' 6'-5'' 6'-11'' 7'-5'' 7'-11'' 8'-5'' 8'-11'' 8'-5'' 8'-11'' 0'T, AND DTAL QUA NOT INC	ND. Rf           REGU           403           10           12           12           14           16           18           20           22           24           26           28           30           0           15           NTITIES           NUL = 15	Image: Constraint of the second sec	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 24 26 27 28 30 5TEEL C	REQ'D. P BDX 407 407 6 6 8 10 10 12 14 14 16 18 18 18 20 DE THE HANNEL.	L CON CU. Y 3.2 3.4 3.7 3.9 4.1 4.2 4.6 5.7 5.7 5.7 6.0 6.2 6.4 6.2 6.4 6.7 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 9 334 3 54 3 354 3 354 3 354 3 354 3 354 3 354 3 402 9 423 9 402 9 423 9 402 9 423 9 4423 9 4423 9 4451 7 471 9 479 1 479 2 520 7 527 9 527 9 547 8 ACK LINE	L = 1 CUNC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3 8.5	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 684 702 711 732 749 759 779	L = 15 CDNC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7 9.9	STEEL           LBS.           706           747           786           803           844           850           860           897           907           927           944           954           974           992           1001					E TYP
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 6'-6" 7'-0" 7'-6" 8'-0" 8'-0" 8'-6" 9'-0" 9'-0" 10'-0" 10'-6" 11'-0"	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 9'-8" 10'-2" 9'-8" 10'-2" 10'-8" TOR L = 5 REGULAR DROP BOJ STEEL WE T Comp	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 8'-2" 8'-2" 8'-2" 9'-2" 9'-2" 9'-2" 9'-2" 5'-8" 6'-2" 5'-8" 6'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 7'-8" 8'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 8'-8" 9'-2" 8'-8" 9'-2" 9'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 5'-8" 8'-8" 9'-2" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 5'-8" 8'-8" 9'-2" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-2" 9'-8" 5'-8" 8'-8" 9'-8" 5'-8" 8'-8" 9'-2" 5'-8" 5'-8" 9'-8" 5'-8" 5'-8" 8'-8" 9'-8" 5'-	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5" 8'-11" 0 FT., ANI DTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/	ND. Rf           REGU           403           10           12           12           14           16           18           20           22           24           26           28           30           0           15           NTITIES           NUL = 15	IQ'D.           LAR           407           7           9           9           11           13           15           17           19           21           225           225           225           225           225           25           27           EDED AR           IEEDED AR           IEEDED AR           S AN	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 24 26 27 28 30 5TEEL C	REQ'D. P BDX 407 407 6 6 8 10 10 12 14 14 16 18 18 18 20 DE THE HANNEL.	L CON CU. Y 3.2 3.2 3.2 3.2 4.1 4.2 4.6 4.6 5.0 5.5 5.7 6.0 6.2 6.2 6.2 6.2 6.4 6.7 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 402 4 402 5 20 5 47 5 407 5 4	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3 8.5 8.5	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749 759 779 WITH	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7 9.9 9.4 9.7 9.9 <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b>	STEEL LBS. 706 747 786 803 844 850 860 880 880 897 907 927 927 927 924 954 974 992 1001 1022	Colo		TYPE II LENGTH		E TYP + 1 
3'-0" 3'-6" 4'-0" 5'-6" 5'-6" 6'-0" 5'-6" 6'-0" 7'-0" 7'-6" 8'-0" 7'-6" 8'-0" 9'-0" 9'-0" 9'-6" 10'-0" 10'-6" 10'-6" 10'-6" 10'-6" 10'-6"	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 9'-8" 9'-2" 9'-8" 10'-2" 10'-8" Comp Date: (	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 8'-8" 9'-2" 9'-8" FT., L = 10 INLETS: TO ABLE Uter F 07/31/19	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5" 8'-11" 0 FT., ANI DTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/	ND. Rf           REGU           403           10           12           12           14           16           18           20           22           24           26           28           30           0           115           NTITIES NE           CLUDE STRU	IQ'D.           LAR           407           7           9           9           11           13           15           17           19           21           225           225           225           225           225           25           27           EDED AR           IEEDED AR           IEEDED AR           S AN	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 24 26 27 28 30 5TEEL C	REQ'D. P BDX 407 407 6 6 6 8 10 10 12 14 14 14 16 18 18 20 CDE THE HANNEL. JANT	L CON CU. Y 3.2 3.4 3.7 3.9 4.1 4.2 4.6 5.7 5.7 5.7 6.0 6.2 6.4 6.2 6.4 6.7 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 402 4 402 5 20 5 47 5 407 5 4	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3 8.5 8.5	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 684 702 711 732 749 759 779 WITH	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7 9.9 9.4 9.7 9.9 <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b>	STEEL LBS. 706 747 786 803 844 850 860 880 880 897 907 927 927 927 924 954 974 992 1001 1022	Colo		TYPE II LENGTH Depart 2829	ELEV MANHOL	E TYP
3'-0" 3'-6" 4'-0" 4'-6" 5'-6" 6'-0" 6'-6" 7'-0" 7'-6" 8-6" 9'-0" 9'-0" 9'-6" 10'-0" 10'-6" 11'-0" 0TES: F	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 7'-8" 8'-2" 9'-8" 9'-2" 9'-8" 10'-2" 10'-8" 5'OR L= 5 REGULAR DROP BO) STEEL WE Comp Date: ( Initials:	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-8" 7'-2" 5'-8" 6'-8" 7'-2" 8'-8" 9'-2" 8'-8" 9'-2" 9'-8" FT., L = 10 INLETS: TO ABLE 07/31/19 JBK	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5" 8'-11" 0 FT., AND DTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/ TOTAL QU/	ND. RE           403           10           12           14           16           18           20           22           24           26           28           30           0           115           NUTITIES NE	IQ'D.           LAR           407           7           9           9           11           13           15           17           19           21           225           225           225           225           225           25           27           EDED AR           IEEDED AR           IEEDED AR           S AN	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 24 26 27 28 30 5TEEL C	REQ'D. P BOX 407 407 6 6 6 6 8 10 10 12 14 14 16 18 18 20 DE THE HANNEL JANT (R-X)	L CON CU. Y 3.2 3.2 3.2 3.2 4.1 4.2 4.6 4.6 5.0 5.5 5.7 6.0 6.2 6.2 6.2 6.2 6.4 6.7 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 402 4 402 5 527 5 47 5 402 5 402 5 527 5 47 5 402 5 402 5 402 5 527 5 47 5 402 5 402 5 402 5 402 5 402 5 402 5 20 5 527 5 47 5 402 5 40 5	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3 8.5 8.5	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749 759 779 WITH	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7 9.9 9.4 9.7 9.9 <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b>	STEEL LBS. 706 747 786 803 844 850 860 880 880 897 907 927 927 927 924 954 974 992 1001 1022	Colo		TYPE II LENGTH Depart	ELEV MANHOL	E TYP
3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 5'-6" 6'-0" 6'-6" 7'-0" 7'-6" 8'-0" 8'-0" 8'-0" 9'-6" 10'-0" 10'-6" 11'-0" DTES: F	2'-8" 3'-2" 3'-8" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-8" 9'-2" 9'-8" 10'-2" 10'-8" 7'07 L=5 REGULAR DROP BD) STEEL WE <u>T</u> Date: ( Initials: dification Initials:	LENGTH 402 1'-8" 2'-2" 2'-8" 3'-2" 3'-8" 4'-2" 4'-2" 4'-8" 5'-2" 5'-8" 6'-2" 6'-8" 7'-2" 7'-8" 8'-2" 8'-2" 8'-8" 9'-2" 9'-8" 9'-2" 9'-8" FT., L = 10 INLETS: TI (INLETS: TI CINLETS: TI CINLETS: TO ABLE 07/31/19 JBK Date: 0	410 3'-5" 3'-11" 4'-5" 4'-11" 5'-5" 5'-11" 6'-5" 6'-11" 7'-5" 7'-11" 8'-5" 8'-11" 0 FT., ANI 0 TAL QU/ TOTAL QU/ TOT	ND. RE           403           10           10           12           12           14           16           18           20           22           24           26           28           30           D L=15 FT           WTITIES NE           VANTITIES NE	IQ'D.           LAR           407           7           9           9           11           13           15           17           19           21           21           21           225           225           225           25           25           27           EDED AR           IEEDED AR           IEEDED AR           S AN	ND. 1 DR01 403 15 16 18 19 20 22 23 24 26 27 28 30 24 26 27 28 30 5TEEL C	REQ'D. P BDX 407 407 6 6 6 8 10 10 12 14 14 14 16 18 18 20 CDE THE HANNEL. JANT	L CON CU. Y 3.2 3.2 3.2 3.2 4.1 4.2 4.6 4.6 5.0 5.5 5.7 6.0 6.2 6.2 6.2 6.2 6.4 6.7 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	= 5 FT. C. STEEL DS. LBS. 2 285 3 305 3 326 3 354 3 354 3 354 3 354 3 354 3 354 3 354 3 402 4 402 5 527 5 47 5 402 5 402 5 527 5 47 5 402 5 402 5 402 5 527 5 47 5 402 5 402 5 402 5 402 5 402 5 402 5 20 5 527 5 47 5 402 5 40 5	L = 1 CONC. CU. YDS. 5.3 5.7 6.0 6.4 6.7 6.0 6.4 6.7 6.0 6.2 6.4 6.6 6.9 7.1 7.3 7.6 7.8 8.0 8.3 8.5 8.5	0 FT. STEEL LBS. 497 528 559 571 602 607 616 637 654 664 664 664 702 711 732 749 759 779 WITH	L = 15 CONC. CU. YDS. 7.4 7.9 8.4 8.8 9.3 7.4 7.6 7.8 8.0 8.3 8.5 8.7 9.0 9.2 9.4 9.7 9.9 9.4 9.7 9.9 <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b> <b>*</b>	STEEL LBS. 706 747 786 803 844 850 860 880 880 897 907 927 927 927 924 954 974 992 1001 1022		rado	TYPE II LENGTH Depart 2829 CDUT Denva Phone	ELEV MANHOL	E TYP   







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	HORI	ZONTAL EL	LIPTICAL (HE)	0.3	R	FINEORCE	D CONCRE	<u>RAL NOTE:</u> TF PIPF	2		
E	SPAN	RISE	WALL THICKNESS	OUTSIDE RISE	_		ATER THAN MAXIM		THE HEIGHT	S OF FILL	TABLE
		IN.		FT.			EQUIRE SPECIAL D ASED ON SAFETY			TE STRENGT	ГН
					3. T		FILL OVER TOP OF				
$\neg$	23	14	2-3⁄4	0.49			TERMINED FROM (	.01 IN. CRACK D-	LOAD.		
	30 34	19	3-1/4	0.66	CI	ONCRETE PIPE AS	S B (MODIFIED) (FR SSOCIATION) WITH	SETTLEMENT RA	IO R = 0.0	sd (YIELDI	NG BED).
-	38	22 24	3-1/2 3-3/4	0.73	S	TRUCTURE BACKF	FOR RIGID PIPE ILL CLASS 2.BED	DING MATERIAL F	OR RIGID P	DSE THICKN IPE IN ROC	ESS K SHALL
	45	29	4-1/2	0.95			HICKNESS STRUCI SN FACTORS REQU			IN PIPE D	ESIGN.
	53	34	5	1.10			ICKNESS DIMENSIO ID AASHTO M 207			M 170 (WAL	L B) FOR
$\neg$	60 68	38 43	5-1/2 6	1.23 1.38		PACING FOR MUL N STANDARD PLA	TIPLE PIPE INSTA N M-206-1.	LLATIONS SHALL	CONFORM T	O THE DET	AILS SHOWN
	76 83	48 53	6-1/2 7	1.53 1.68	9. W	HEN A PIPE IS	TO BE EXTENDED, STALLATION SHALL		MATERIAL AN	ID SIZE AS	IN THE
	91	58	7-1/2	1.83			RCED CON		PF		
	98 106	63 68	8 8-1/2	1.98 2.13	1. A	T THE OPTION OF	F THE CONTRACTO	R, NONREINFORCE	D CONCRETE		
	113 121	72 77	9 9-1/2	2.25 2.40	3	6 INCHES IN DIA	METER AND SMALL	ER. THE NONREIN	FORCED COM	WCRETE PIP	E SHALL
	128 136	82 87	9-3⁄4 10	2.54 2.68	B	EARING METHOD ITH AASHTO M 1	AS SPECIFIED FOR 70. THE CONTRACT	R REINFORCED CO OR SHALL PROVI	NCRETE PIF DE WRITTEN	PE IN CONF	ORMANCE ATION OF
	130	07	10	2.00			WALL THICKNESS MEET D-LOAD REQ		FORCED PIP	E MAY BE	INCREASED
ICI	RETE P	IPF			2. A Ri	LL REQUIREMENTS	S FOR REINFORCE HALL APPLY TO N	) CONCRETE PIP ONREINFORCED C	, EXCEPT TH DNCRETE PI	HOSE REFER PE.	RRING TO
						,					
X	XXX						HEIGHT OF FILL CLASS OF PIPE	OVER TOP OF F	,		
TE				TYPE OF PIF	ÞF	CLASS CIR II	CLASS OF FIFE	CLASS CIR IV	CLASS CI		
$\bigotimes$					-	CLASS VE II CLASS HE II	CLASS VE III CLASS HE III	CLASS VE IV CLASS HE IV	CLASS VE	E V CL/	ASS VE VI
X				(010)		1000 D	1350 D	2000 D	3000		4000 D
X			CIRCULAR VERTICAL	(CIR) ELLIPTICAL	(VE)	1 TO 18 1 TO 18	1 TO 25 1 TO 25	± 25 TO 37 ± 25 TO 37	± 37 TC ± 37 TC		45 TO 62
					(12)	1 10 10		10 10 07			10 10 02
	CTURE		HURIZUNTA	AL ELLIPTIC	AL (HE)	1 TO 18	1 TO 25	± 25 TO 37			
NOIN	CTURE FILL		HURIZUNTA	AL ELLIPTIC/							
			HURIZUNTA	AL ELLIPTIC/	ALLOW	ABLE RAN	1 TO 25 GE OF HEI DRCED COM	GHTS FO	R FILL		
	FILL		HURIZUNTA	AL ELLIPTIC/	ALLOW	ABLE RAN	GE OF HEI	GHTS FO	R FILL		
	FILL		HURIZUNTA	AL ELLIPTIC/	ALLOW	ABLE RAN	GE OF HEI DRCED COM	GHTS FO	R FILL		
	FILL		HURIZUNTA	AL ELLIPTICA	ALLOW	ABLE RAN	GE OF HEI DRCED COM	GHTS FO	R FILL		
PI	FILL	on			ALLOW	ABLE RAN ER REINFO	GE OF HEI DRCED COM (ALL SIZES)	GHTS FOI	R FILL	D PL	AN NC
PI	fill PE	on	]	REI		ABLE RAN ER REINFO	GE OF HEI DRCED COM (ALL SIZES)	GHTS FOI	R FILL	2D PL/ 603-2	AN NC
PI	fill PE		]	REI		ABLE RAN ER REINFO	GE OF HEI DRCED COM (ALL SIZES)	GHTS FOI	R FILL	603-2	AN NC 0. 1 of
PI	FILL PE portatio		] C	REI ON(	ALLOW OVE	ABLE RAN ER REINFO DRCH	GE OF HEI DRCED COM (ALL SIZES)	GHTS FOI	R FILL	603-2 neet N	o. 1 of
PI	FILL PE portatio	7-9868	] C	REI ON(	ALLOW OVE	ABLE RAN ER REINFO DRCH	GE OF HEI DRCED COM (ALL SIZES)	GHTS FOI	R FILL IPE NDAR M- lard St	603-2 neet N	o. 1 of
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	FILL PE portatio : 303-757	7-9868 JBK	Issued b	REI ON by the Pro	ALLOW OVE	ABLE RAN ER REINFO DRCH ETE P	GE OF HEI DRCED CON (ALL SIZES) ED ED ED ED ED ED ED ED ED ED ED ED ED	GENERAL BE CLASS B. INL	R FILL IPE NDAR dard SI Project SP Project SP	603-2 neet N heet Numb	o. 1 of per:
	FILL PE portatio : 303-757	7-9868	Issued b	REI ON by the Pro	ALLOW OVE	ABLE RAN ER REINFO DRCH ETE E opment Branch	GE OF HEI <u>DRCED CON</u> (ALL SIZES) ED PIPE :: July 31, 2019 CONCRETE SHALL	GHTS FOR NCRETE P STA Stand BE CLASS B. INL ONCRETE WALLS	R FILL IPE NDAR M- lard Sl Project Sl Project Sl ET MAY BE SHALL BE F	603-2 neet N heet Numb	O. 1 Of Der: LACE BOTH SIDES.
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	FILL PE portatio : 303-757 ( A B A A ( TYP.)		DRAINS TO STR	$\begin{array}{c} \mathbf{REI} \\ \mathbf{ON} \\ \mathbf{v} \text{ the Pro} \\ \mathbf{v}  $	ALLOW DVE DV	ABLE RAN ER REINFO	CONCRETE SHALL OR CED CON (ALL SIZES) CONCRETE SHALL OR PRECAST. CAST-IN-PLACE C EXPOSED CONCRE REINFORCING BAF MINIMUM CLEARAN STEPS SHALL BE OR GREATER THA ALL GRATES AND IN ACCORDANCE V SHALL BE DESIGN STATION POINT IS STATION POINT IS STATION POINT IS	GENERAL Stand Stand Stand Stand BE CLASS B. INL DNCRETE WALLS TE CORNERS SHAL IE CORNERS SHALL BE DICRETE WALLS TE CORNERS SHALL BE VITH SUBSECTION ED TO WITHSTAM S AT THE CENTE E "DUMP NO WAY S SURFACE.	R FILL PE NDAR M- dard Si Project Si Project Si Project Si ET MAY BE SHALL BE F LL BE CHAM ORMED #4 / CING BARS INLET DIME D SHALL CO SHALL CO SHALL CO CING BARS INLET DIME D SHALL CO STE DRAINS	603-2 neet N heet Numb CAST-IN-PI CORMED ON FERED 3/4 AND SHALL SHALL BE I SHALL SHAL	O. 1 Of Der: LACE BOTH SIDES. IN. HAVE A 2 IN EPOXY COATH IS EQUAL TI AASHTO M IS CAST IRON FRAMES 4"
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	FILL PE Doortatio : 303-757 C-C			$\begin{array}{c} \mathbf{REI} \\ \mathbf{ON} \\ \mathbf{v} \text{ the Pro} \\ \mathbf{v}  $	ALLOW DVE	ABLE RAN ER REINFO	CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CAST-IN-PLACE CONCRE REINFORCING BAF MINIMUM CLEARAN STEPS SHALL BE OR GREATER THA ALL GRATES AND IN ACCORDANCE 'N SHALL BE DESIGN STATION POINT IS GRATE SHALL HAV MESSAGE CAST OF H CONCRETE SHALL HAV MESSAGE CAST OF CONCRETE SHALL HAV CONCRETE SHALL HAV MESSAGE CAST OF CONCRETE SHALL HAV CONCRETE SHALL HAV CO	GENERAL Stand Stand Stand Stand BE CLASS B. INL ONCRETE WALLS TE CORNERS SHAL IS SHALL BE DEF ICE. ALL REINFOR PROVIDED WHEN N 3 FT6 IN. AN FRAMES SHALL BE D TO WITHSTAM S AT THE CENTE E "DUMP NO WAT S SURFACE.	R FILL PE NDAR M- dard Si Project Si Project Si ET MAY BE SHALL BE F LL BE CHAM ORMED #4 / CING BARS INLET DIME D SHALL CO BE GRAY OR 1 712.06. GR D SHALL CO R OF THE IN STE DRAINS	603-2 neet Numb cast-IN-PI cormed on fered 3/4 and shall be in shall be in shall be in shall be in consion "H" inform to ductile co ates and in dading. vilet. to stream <u>maximum</u> sec. A-A	O. 1 Of Der: LACE BOTH SIDES. IN. HAVE A 2 IN EPOXY COATH IS EQUAL TI AASHTO M 19 CAST IRON FRAMES A" PIPE I.D. SEC. B-B
	FILL PE portatio : 303-757			REI ONO by the Pro	ALLOW DVE	ABLE RAN ER REINFO	CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CAST-IN-PLACE CONCRE REINFORCING BAF MINIMUM CLEARAI STEPS SHALL BE OR GREATER THA ALL GRATES AND IN ACCORDANCE 'S STATION POINT IS GRATE SHALL HAV MESSAGE CAST OF H CONCRETE SHALL HAV MESSAGE CAST OF CONCRETE SHALL HAV CONCRETE SHALL HAV C	GENERAL STA Stand Stand Stand Stand Stand CRETE WALLS IE CORNERS SHALL BE CLASS B. INL ONCRETE WALLS IE CORNERS SHALL S SHALL BE DEF ICE CORNERS SHALL S AT THE CENTE ICE CORNERS ICE C	R FILL PE NDAR M- dard SI Project SI Project SI Project SI ET MAY BE SHALL BE F LL BE CHAM ORMED #4 / CING BARS INLET DIME D SHALL CO E GRAY OR 1712.06. GR D HS 20 LC SHALL CO E GRAY OR 1712.06. GR D HS 20 LC R OF THE IN STE DRAINS INLET DIME D SHALL CO E GRAY OR 1712.06. GR D HS 20 LC R OF THE IN STE DRAINS	603-2 neet N heet Numb CAST-IN-PI TORMED ON FERED 3/4 AND SHALL SHALL BE I SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL SH	O. 1 Of Der: Der: LACE BOTH SIDES. IN. HAVE A 2 IN EPOXY COATH IS EQUAL TH AASHTO M 19 CAST IRON FRAMES (" PIPE I.D. SEC. B-B IN. 18 18 18 18
	FILL PE portatio : 303-757			REI ONO by the Pro	ALLOW DVE	ABLE RAN ER REINFO	CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CONCRETE SHALL CAST-IN-PLACE CO EXPOSED CONCRE REINFORCING BAF MINIMUM CLEARAN STEPS SHALL BE OR GREATER THA ALL GRATES AND IN ACCORDANCE V SHALL BE DESIGN STATION POINT IS GRATE SHALL HAV MESSAGE CAST OF H CONCRETE SHALL HAV MESSAGE CAST OF CONCRETE SHALL HAV CONCRETE SHALL HAV CONCRETE SHALL HAV MESSAGE CAST OF CONCRETE SHALL HAV CONCRETE SHALL HAV CONCRETE SHALL HAV MESSAGE CAST OF CONCRETE SHALL HAV CONCRETE SHALL HAV	GENERAL STA Stand Stand Stand Stand Stand CRETE WALLS RE CLASS B. INL ONCRETE WALLS RE CORNERS SHALL BE CLASS B. INL ONCRETE WALLS IE CORNERS SHALL S SHALL BE DEF VICE ALL REINFOR PROVIDED WHEN N 3 FT6 IN. AN FRAMES SHALL BE DEF VICE ALL REINFOR PROVIDED WHEN N 3 FT6 IN. AN FRAMES SHALL BE DEF VICE ALL REINFOR S AT THE CENTE CRETE REINFOR S AT THE CENTE S	R FILL PE NDAR M- dard Si Project Si Project Si ET MAY BE SHALL BE F LL BE CHAM ORMED #4 / CING BARS INLET DIME D HS 20 LC R GRAY OR I 712.06. GR D HS 20 LC R OF THE IN STE DRAINS	603-2 neet Numb heet Numb CAST-IN-PI FORMED ON FERED 3/4 AND SHALL SHALL BE I SHALL SHALL SHALL SHALL MAXIMUM SEC. A-A IN. 18 24	O. 1 Of Der: LACE BOTH SIDES. IN. HAVE A 2 IN EPOXY COATH IS EQUAL TH AASHTO M 19 CAST IRON FRAMES ("" PIPE I.D. SEC. B-B IN. 18 18 18
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	CONCRETE	REINFORCING	NO. OF	MAXIMUM PIPE I.D.		
H	CONCILLE	STEEL	401 BARS	SEC. A-A	SEC. B-B	
	CU. YDS.	θ LB.	REQ'D.	IN.	IN.	
3'-0"	1.3	72	4	18	18	
3'-6"	1.5	76	4	24	18	
4'-0"	1.6	90	5	30	18	
4'-6"	1.8	104	6	30	18	
5'-0"	1.9	109	6	30	18	
5'-6"	2.1	122	7	30	18	
6'-0''	2.2	136	8	30	18	
6'-6''	2.4	141	8	30	18	
7'-0"	2.5	154	9	30	18	
7'-6"	2.7	168	10	30	18	
8'-0"	2.8	173	10	30	18	
8'-6"	3.0	187	11	30	18	
9'-0"	3.1	200	12	30	18	
9'-6"	3.3	205	12	30	18	
10'-0"	3.4	219	13	30	18	

NOTE: CONCRETE QUANTITIES INCLUDE VOLUME OCCUPIED BY PIPE.

3'-6" 2'-2"

<sup>€</sup> ADD 6 IN. TO THIS DIMENSION FOR EACH 6 IN. INCREASE OF "H" OVER 3 FT.-O IN.

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

STANDARD PLAN NO.

M-604-13

Sheet No. 1 of 1

402 2 3'-4<sup>1</sup>/<sub>2</sub>" \* 2'-6<sup>1</sup>/<sub>2</sub>"

403 5 2'-1/2" \* 2'-7"

\*

LENGTH

13'-4"

8'-5<sup>l</sup>/2"

7'-21/2"

QUANTITIES FOR ONE INLET

# MESSAGE CAST ON SURFACE.

- 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 AASHTO M 199.
- 3. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED  $rak{3}{4}$  IN. 4. REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN.
- 2. CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- GENERAL NOTES

ALLOWABLE RANGE OF H OVER REINFORCED C					
(ALL SIZES)					
REINFORCED	STANDARD PLAN N				
REITOTOROED	M-603-2				

	(ALL SIZES)	
ortation	REINFORCED	STANDARD PLAN NO.
	KLII (I OKOLD	M-603-2

	(ALL SIZES)		
portation	REINFORCED	STANDARD PLAN NO.	
		M-603-2	

portation	REINFORCED	STANDARD PLAN NO.
e		M-603-2

oortation	REINFORCED	STANDARD PLAN NO.
		M-603-2

ortation	REINFORCED	STANDARD PLAN NO.
		M-603-2

=	UVER REINFURCED CUNC (ALL SIZES)	<u>RETE PIPE</u>
rtation	REINFORCED	STANDARD PLAN NO.

	<u>OVER REINFORCED CONCRETE PIPE</u>
	(ALL SIZES)
tation	<b>PEINIFORCED</b> STANDARD PLAN NO.

		(ALL SIZES)		
rtation	REINI	FORCED	STANI	DARD PLAN NO.

ortation	REINFORCED	STANDARD PLAN NO.
		M-603-2
303-757-9868	CONCRETE PIPE	Standard Sheet No. 1 of 1

NONREINFORCED CONCRETE PIPE					
1. AT THE OPTION OF THE CONTRACTOR, NONREINFORCED CONCRETE PIPE CONFORMING TO AASHTO M 86 MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE FOR ALL SIZES 36 INCHES IN DIAMETER AND SMALLER. THE NONREINFORCED CONCRETE PIPE SHALL MEET THE SAME D-LOAD TO PRODUCE THE ULTIMATE LOAD UNDER THE THREE-EDGE BEARING METHOD AS SPECIFIED FOR REINFORCED CONCRETE PIPE IN CONFORMANCE WITH AASHTO M 170. THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION OF CONFORMACE. THE WALL THICKNESS OF THE NONREINFORCED PIPE MAY BE INCREASED AS REQUIRED TO MEET D-LOAD REQUIREMENT.					
			CONCRETE PIPE,		EFERRING TO
R	INFURCEMENT, SH	HALL APPLY IU N	ONREINFORCED CO	INCRETE PIPE.	
			. OVER TOP OF PI		
		CLASS OF PIPE		RACK D-LOAD)	
E	CLASS CIR II CLASS VE II	CLASS CIR III CLASS VE III	CLASS CIR IV CLASS VE IV	CLASS CIR V CLASS VE V	CLASS VE VI
	CLASS HE II	CLASS HE III	CLASS HE IV		
	1000 D	1350 D	2000 D	3000 D	4000 D
	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	
(VE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62
L (HE)	1 TO 18	1 TO 25	± 25 TO 37		

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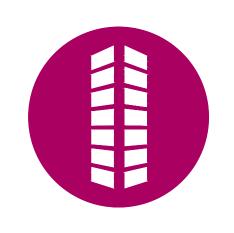
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Colorado Springs, CO 80920

719.900.7220

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PLACE

#	Date	Issue / Description	Init.
_			
_			
_			
_			
_			

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

STORM DRAIN DETAILS

C5Sheet 19 of 25

0.75	BEDDING MATERIAL FOR RIGID PIPE IN SOIL SHALL BE 3 IN. I
0.79	STRUCTURE BACKFILL CLASS 2. BEDDING MATERIAL FOR RIGID
0170	BE 12 IN. LODSE THICKNESS STRUCTURE BACKFILL CLASS 1.
0.05	6. CHANGES IN DESIGN FACTORS REQUIRE COMPENSATING CHANG

- I. LOOSE THICKNESS GID PIPE IN ROCK SHALL

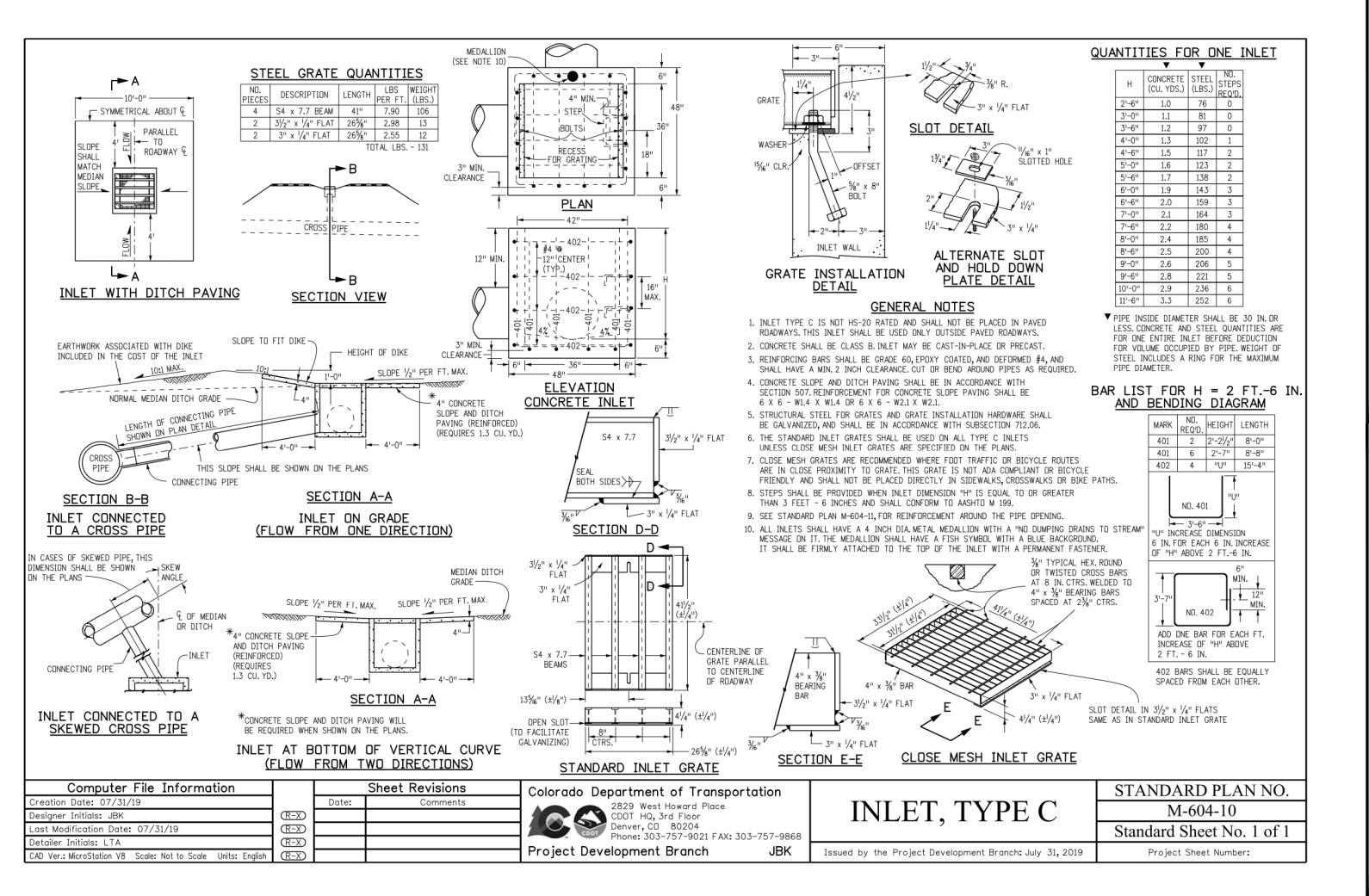
- IS CLASS B (MODIFIED) (FROM CONCRETE PIPE DESIGN MANUAL-AMERICAN E PIPE ASSOCIATION) WITH SETTLEMENT RATIO R = 0.0 sd (YIELDING BED).
- LASS IS DETERMINED FROM 0.01 IN. CRACK D-LOAD.

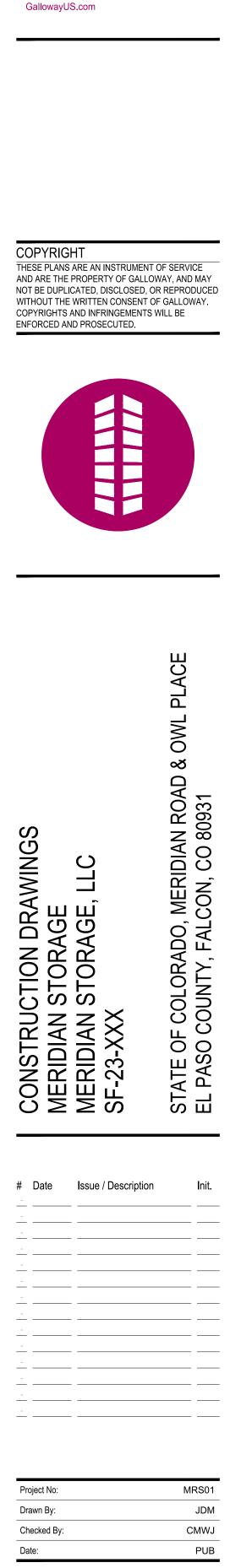
- R PIPE, AND AASHTO M 207 FOR ELLIPTICAL PIPE.
- WALL THICKNESS DIMENSIONS ARE BASED ON AASHTO M 170 (WALL B) FOR

- CHANGES IN PIPE DESIGN.
- FOR MULTIPLE PIPE INSTALLATIONS SHALL CONFORM TO THE DETAILS SHOWN
- NDARD PLAN M-206-1.
- A PIPE IS TO BE EXTENDED, THE SAME PIPE MATERIAL AND SIZE AS IN THE AL PIPE INSTALLATION SHALL BE USED.

MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN	EL PASO COUNTY, FALCON, CO 80
9	Issue / Description		Init.
			·

Storage LLC/CO, El Paso County - MRS01 - Storage/OCIV/3-CD/PUB/MRS01\_C5.1 - Storm Drain Details dwg - Josh Murphy - 4/21/2023





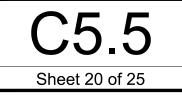
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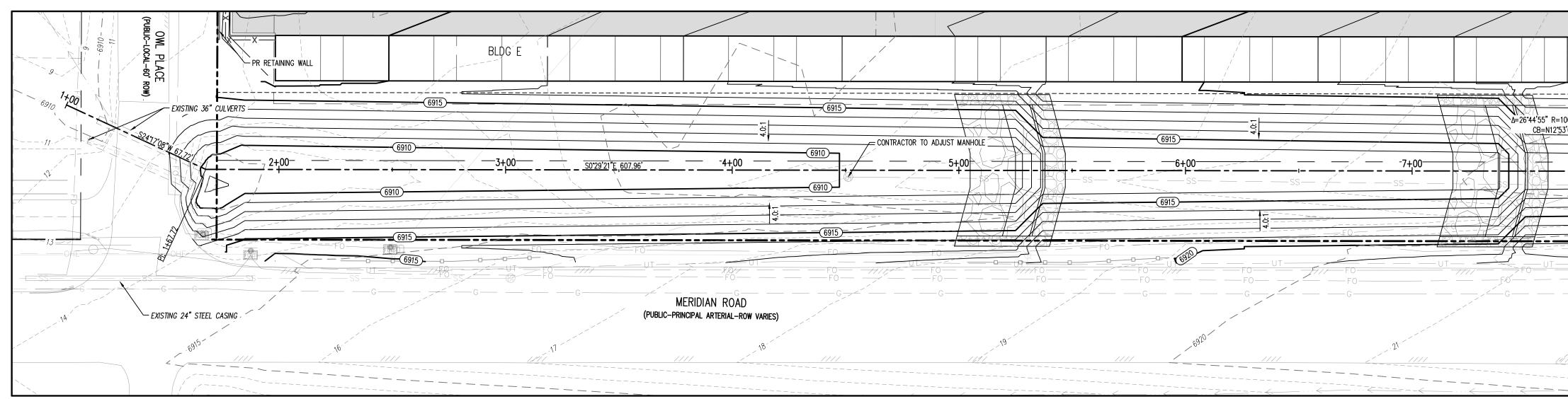
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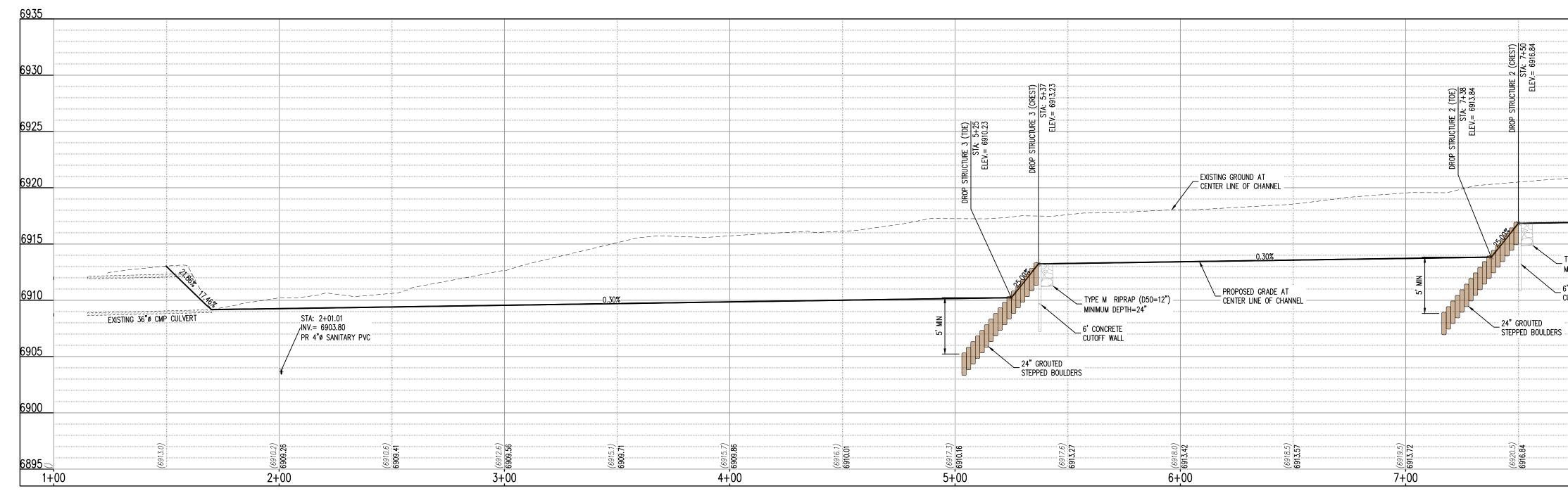
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STORM DRAIN DETAILS



SITE LEGEND	GRADING LEGEND		UTILITY LEGEND
PROJECT BOUNDARY LINE		EXISTING MAJOR CONTOUR	W
ADJACENT PROPERTY BOUNDARY LINE	52	EXISTING MINOR CONTOUR	w
RIGHT OF WAY LINE	5465	PROPOSED MAJOR CONTOUR	— — —SS—
EXISTING ADJACENT LOT LINE	66	PROPOSED MINOR CONTOUR	SS
PROPOSED LOT LINE	2.00%	EXISTING SLOPE - PERCENT	= s <u>D</u> = = <u>-</u> s <u></u> D =
– — — — — — — EXISTING EASEMENT LINE	4:1	EXISTING SLOPE - RISE/RUN	SD SD SD
PROPOSED EASEMENT LINE	2.00%	PROPOSED SLOPE - PERCENT	— — G—
PROPOSED ROAD CENTERLINE	4:1	PROPOSED SLOPE - RISE/RUN	G
- · - · - · - · - · - · EXISTING ROAD CENTERLINE	89.00 HP	PROPOSED SPOT ELEVATION - HIGH POINT	
	89.00 LP	PROPOSED SPOT ELEVATION - LOW POINT	
··· < PROPOSED SWALE LINE	89.00 TOB	PROPOSED SPOT ELEVATION - TOP OF BERM	
EXISTING SWALE LINE	89.00 FL	PROPOSED SPOT ELEVATION - FLOW LINE	(FO) FOVT
100YR FLOODPLAIN BOUNDARY	89.00 TG	PROPOSED SPOT ELEVATION - TOP OF GRATE	TL
EXISTING FENCE	89.00 FG	PROPOSED SPOT ELEVATION - FINISHED GRADE	TR
X X X X PROPOSED FENCE	89.00 SW	PROPOSED SPOT ELEVATION – SIDEWALK	-Ò
EXISTING GUARDRAIL	89.00 EOC	PROPOSED SPOT ELEVATION - EDGE OF CONCRETE	-¢-
PROPOSED CURB AND GUTTER	89.00 EOA	PROPOSED SPOT ELEVATION - EDGE OF ASPHALT	¢.
EXISTING CURB AND GUTTER	89.00 ME	PROPOSED SPOT ELEVATION - MATCH EXISTING	•
EXISTING EDGE OF ASPHALT			li se
PROPOSED SIDEWALK			м
PROPOSED TRAIL			Ϋ́ς
PROPOSED GRAVEL PER ECM TABLE D-7			۲
RIPRAP OUTFALL PADS			SD
EXISTING SIGN			$\bigcirc$
PROPOSED SIGN			S
PROPOSED BOLLARDS			٢



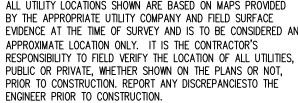


- EXISTING WATER LINE ------ PROPOSED WATER LINE - EXISTING SANITARY SEWER ------ PROPOSED SANITARY SEWER = sd= = existing storm sewer SD PROPOSED STORM SEWER ------ EXISTING GAS LINE ------ PROPOSED GAS LINE EXISTING UNDERGROUND TELEPHONE EXISTING OVERHEAD ELECTRIC ------ Existing fiber optic line EXISTING 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

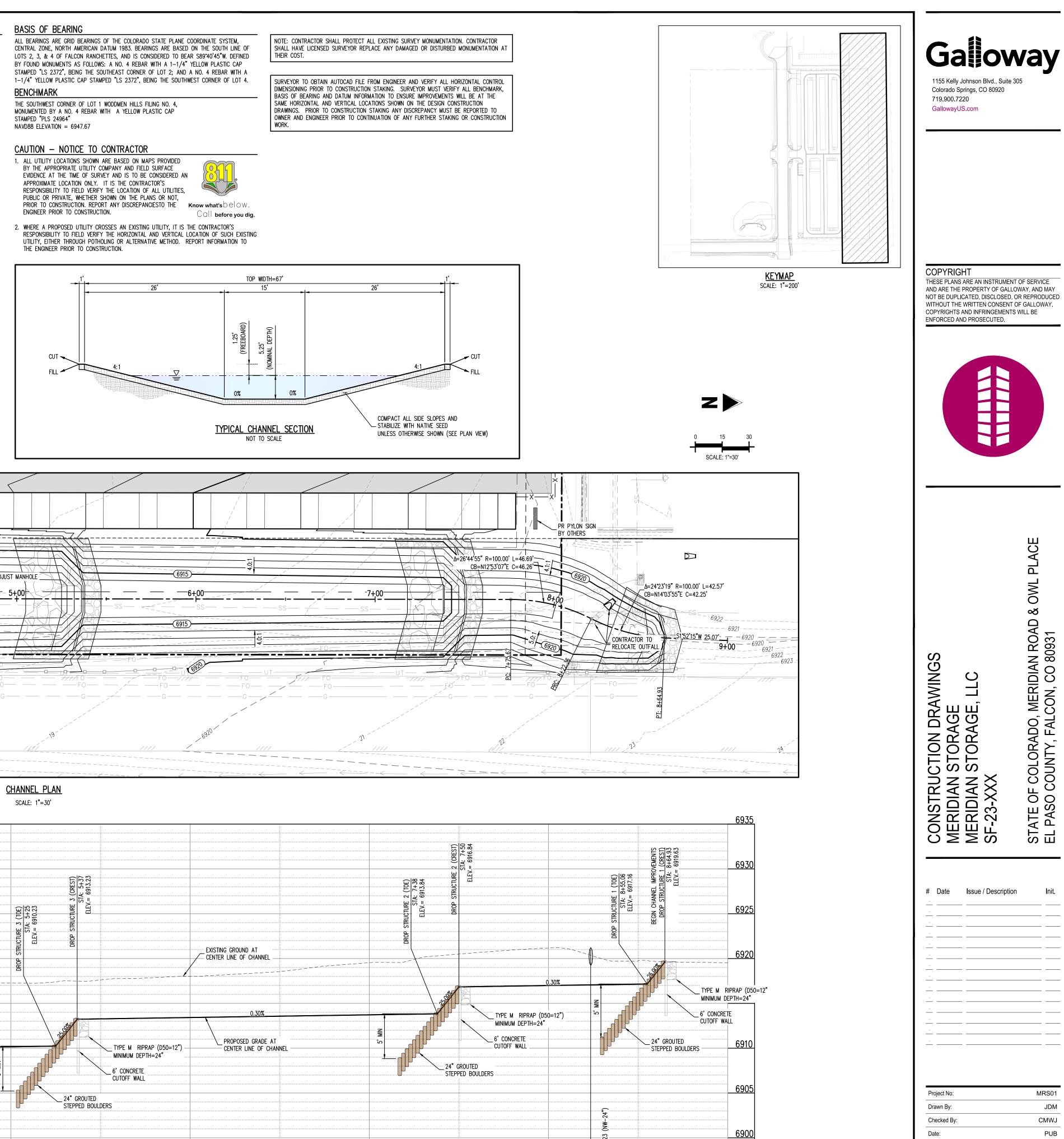
PROPOSED SANITARY SEWER MANHOLE

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

MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964"



UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO



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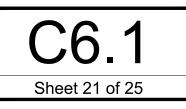
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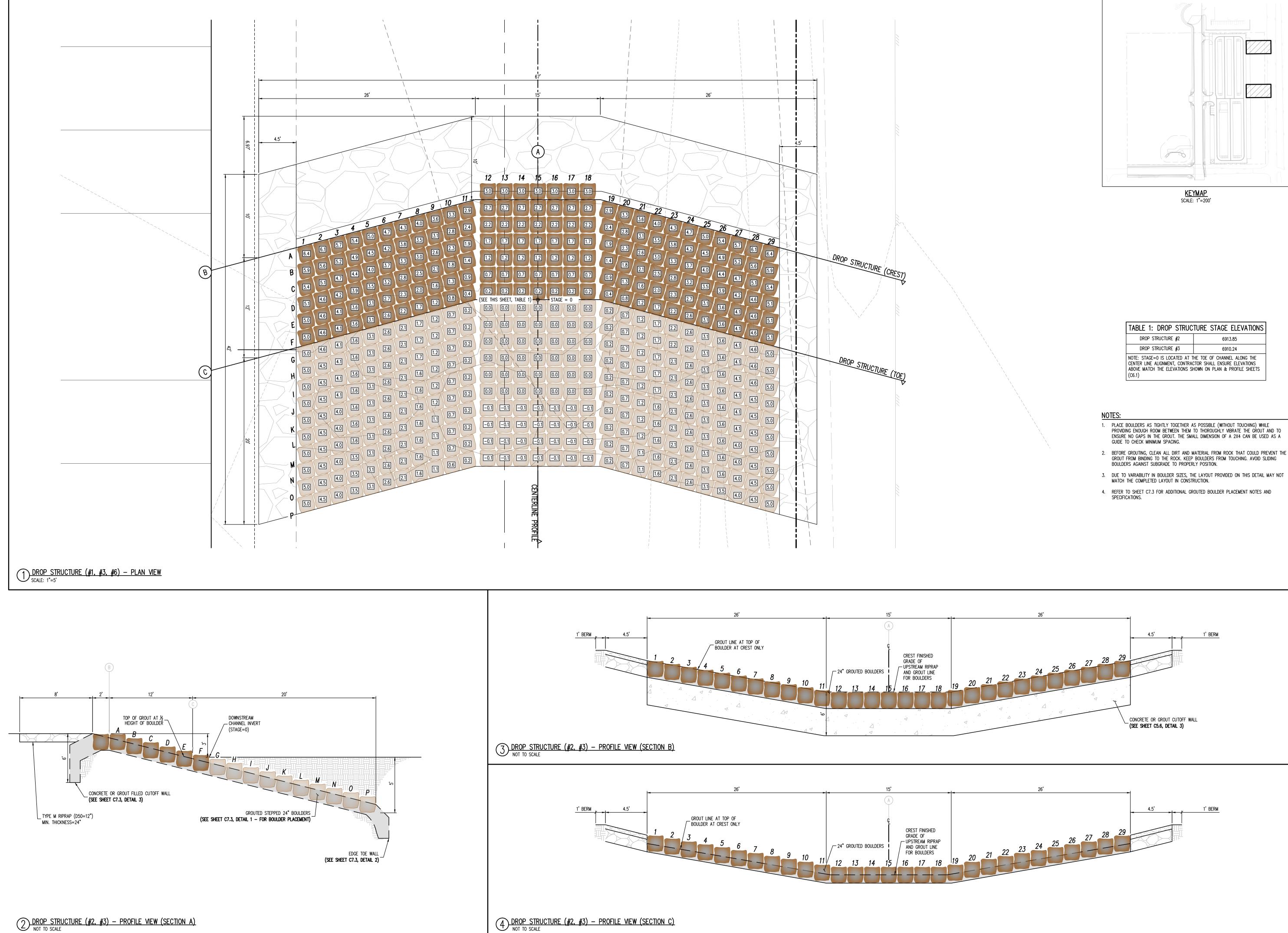
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### <u>CHANNEL PROFILE (STA: 1+00 – 9+00)</u> SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

CHANNEL PLAN & PROFILE





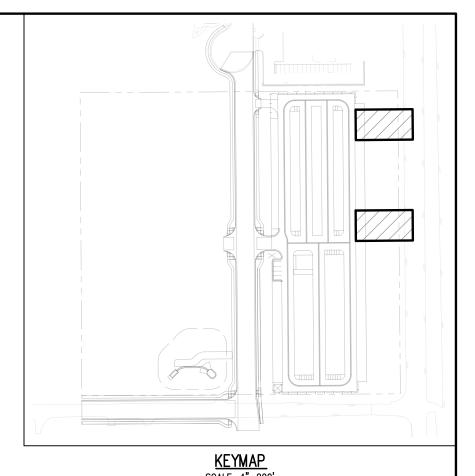


TABLE 1: DROP STRUC	TURE STAGE ELEVATIONS
DROP STRUCTURE #2	6913.85
DROP STRUCTURE #3	6910.24
NOTE: STAGE=0 IS LOCATED AT T CENTER LINE ALIGNMENT, CONTRAC ABOVE MATCH THE ELEVATIONS SH (C6.1)	

- ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A
- 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

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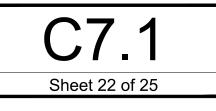
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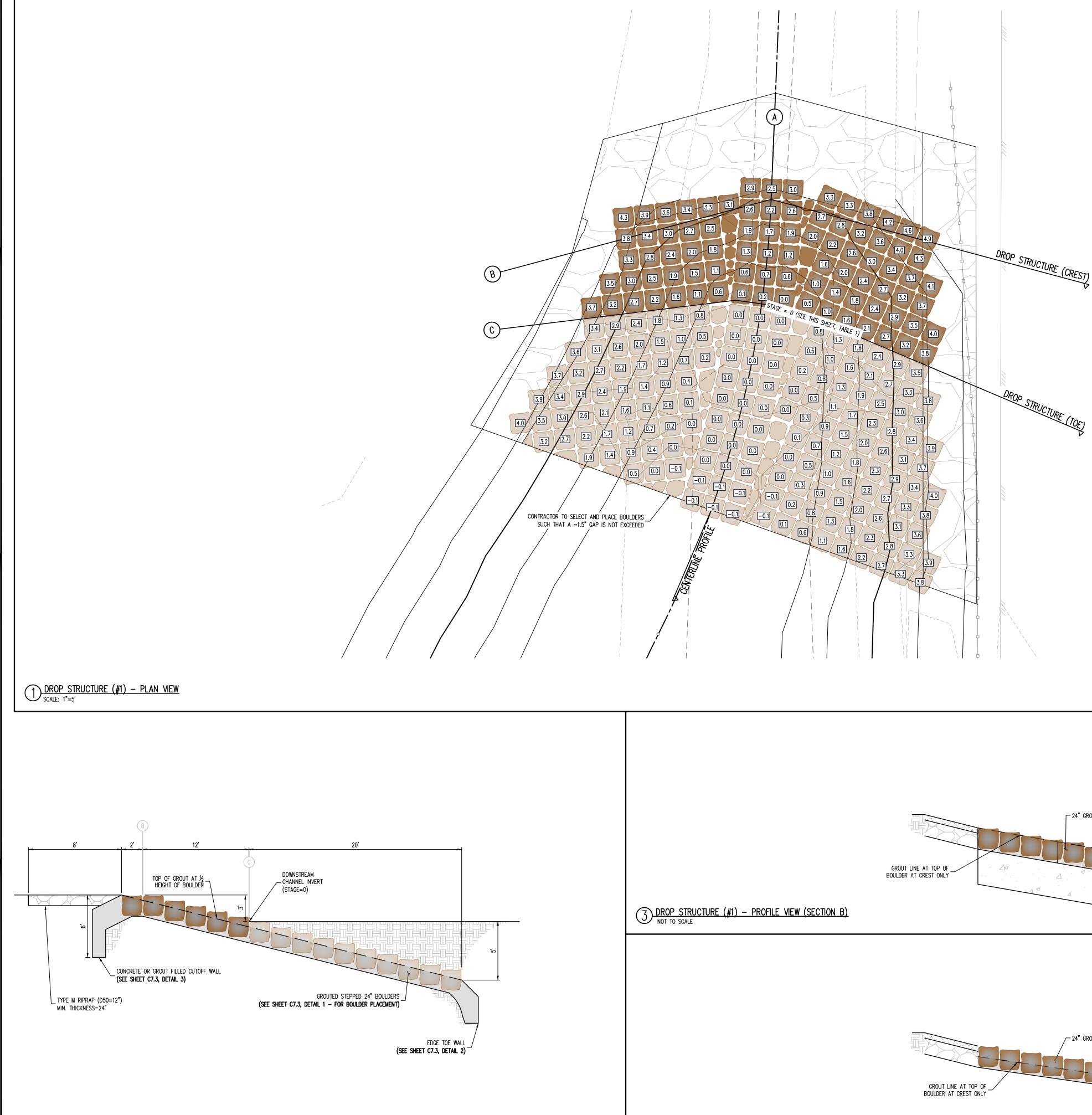
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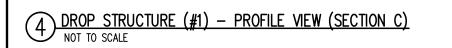
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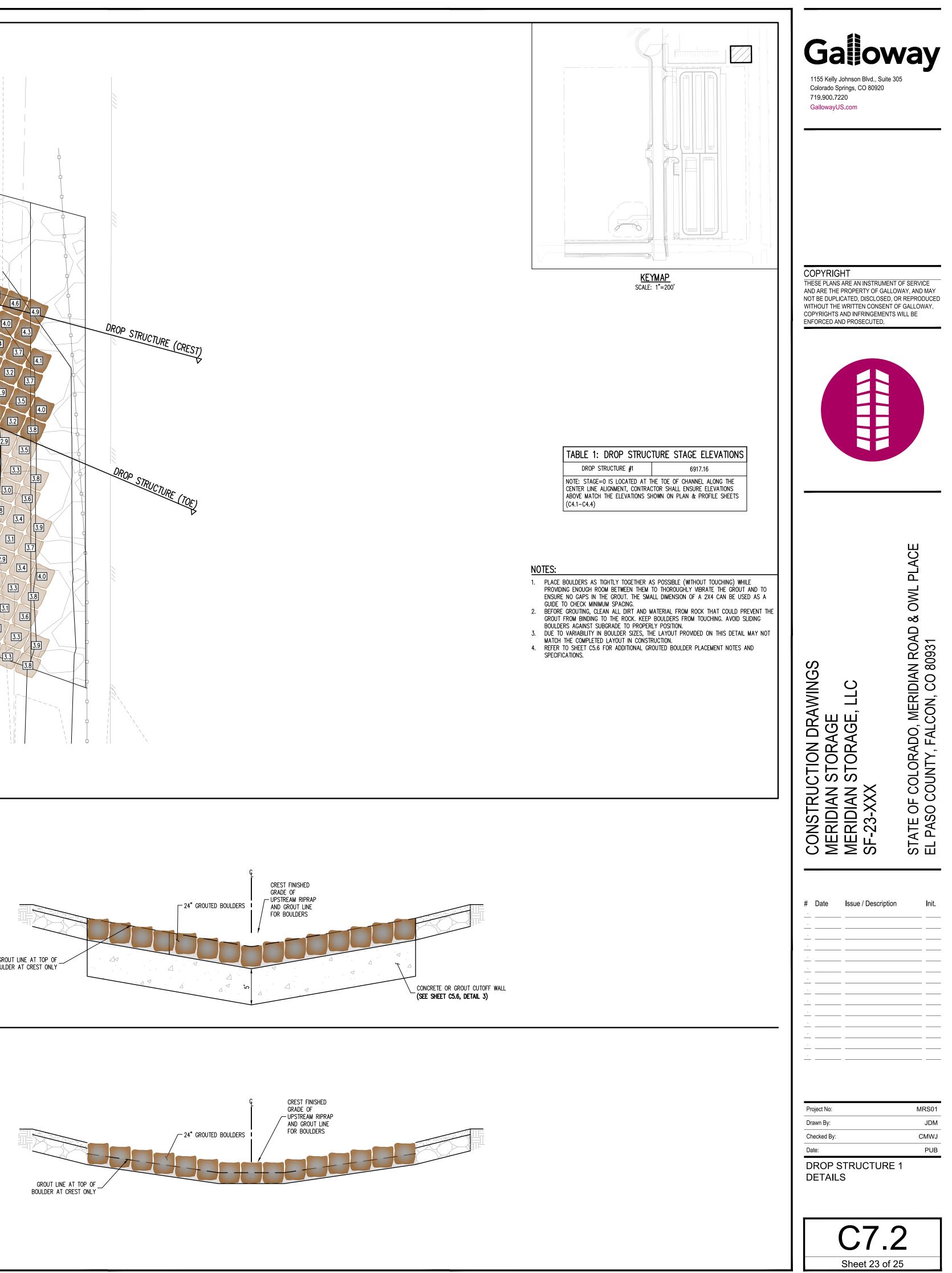
Project No:	MRS01	
Drawn By:	JDM	
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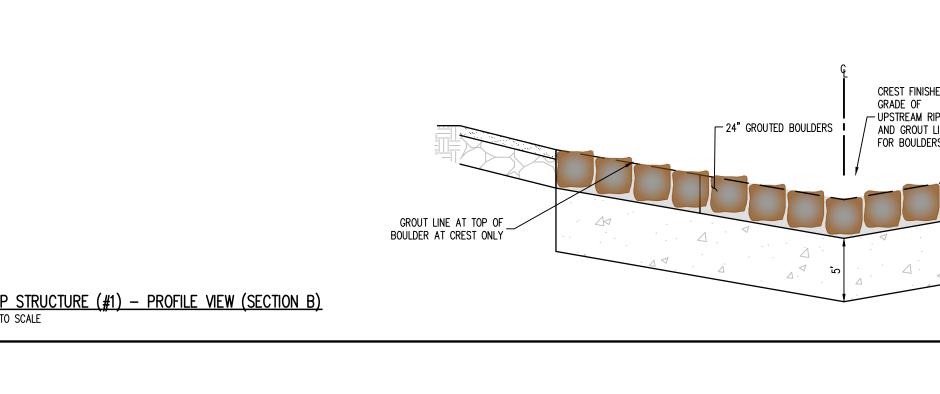
DRUP STRUCTURE 2 & 3 DETAILS

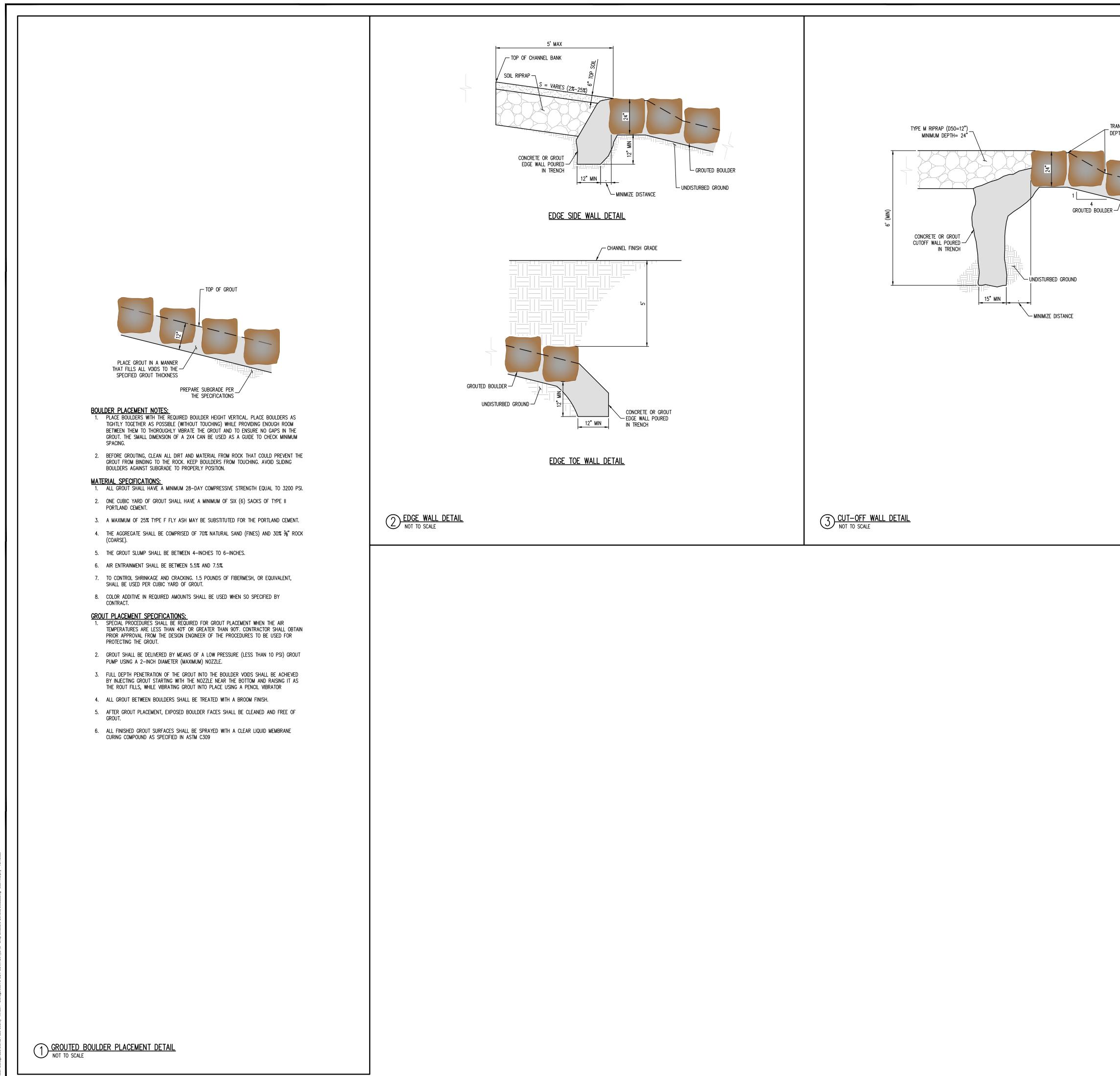




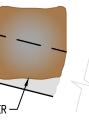








\_ TRANSITION GROUT FROM A DEPTH OF 22" TO 12"



- 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.
- 4. 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. 9. SMALLER ROCK SHALL BE SECURELY LOCKED BETWEEN THE LARGER STONE. IT IS
- SMALLER ROCK SHALL BE SECORELY LOCKED BEIWEEN 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.
  11. SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.
  12. 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 HOMOGENOUS MIXTURE; WHERE THE SOIL FILLS THE INHERENT VOIDS IN THE RIPRAP WITHOUT DISPLACING RIPRAP. 15. LAYERING THE RIPRAP AND SOIL INSTEAD OF PREMIXING MAY BE ALLOWED IF THE NATIVE
- SOIL IS GRANULAR. 16. 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.
- 19. ANY LARGE VOIDS SHALL BE FILLED WITH ROCK AND SMALL VOIDS FILLED WITH SOIL. 20. THE TOP SURFACE SHALL BE COVERED WITH FOUR (4) INCHES OF TOPSOIL SUCH THAT NO
- ROCK POINTS ARE PROTRUDING.21. THE FINAL SURFACE SHALL BE THOROUGHLY WETTED FOR GOOD COMPACTION, SMOOTHED AND COMPACTED BY VIBRATING EQUIPMENT.



### COPYRIGHT

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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
# 	Date	Issue / Description		Init.
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Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

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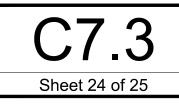
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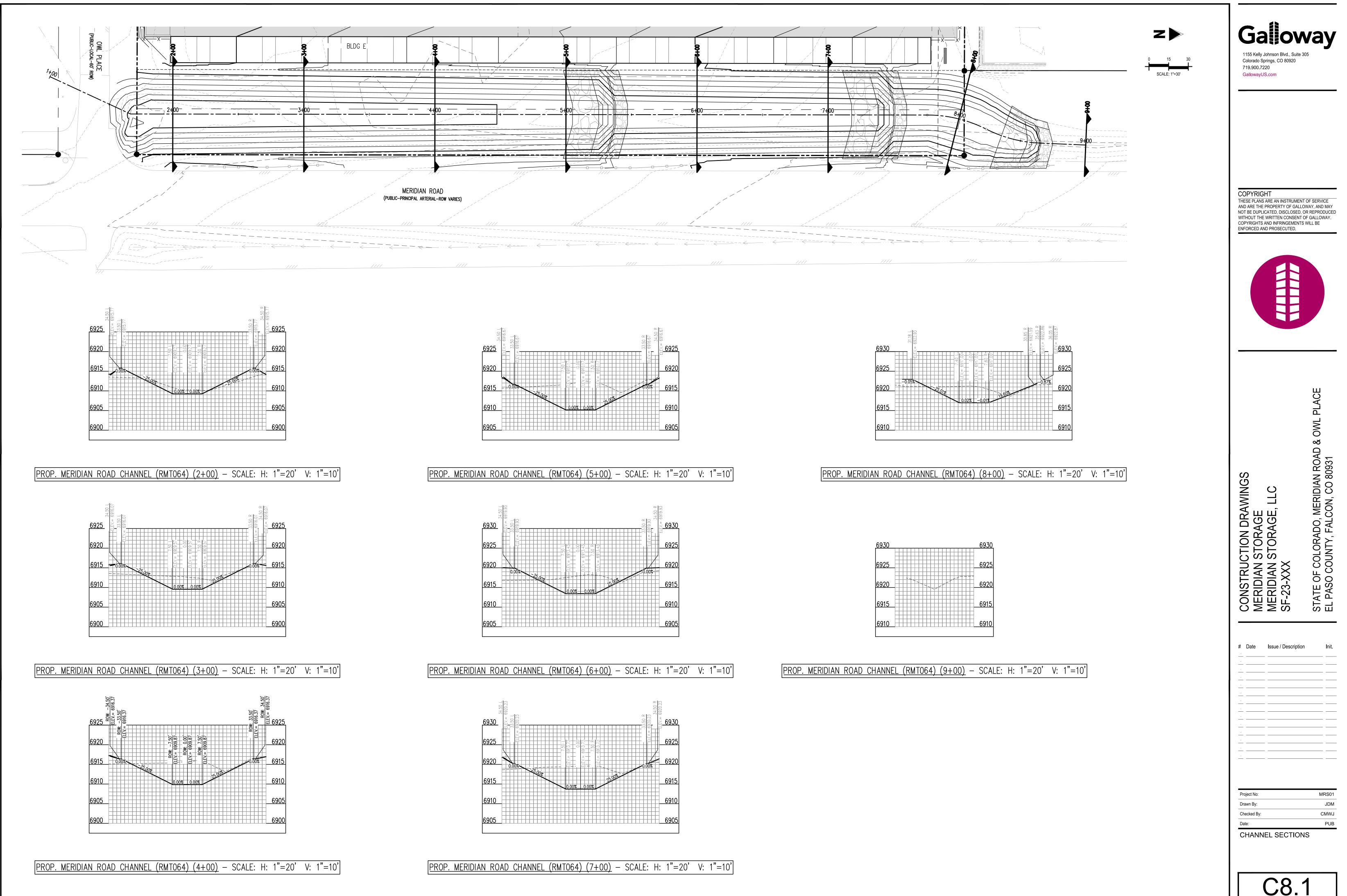
GENERAL DETAILS

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Sheet 25 of 25

# 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

## PROJECT CONTACTS

PROPERTY OWNER MIKE D TEXER 11750 OWL PLACE PEYTON, CO 80831 TELE: (719) 641–9261 CONTACT: MIKE D TEXER EMAIL: MIKE.TEXER@GMAIL.COM APPLICANT

GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: CALEB JOHNSON EMAIL: CALEBJOHNSON@GALLOWAYUS.COM

CIVIL ENGINEER GALLOWAY & CO., INC.

1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900–7220 CONTACT: BRADY SHYROCK, P.E. EMAIL: BRADYSHYROCK@GALLOWAYUS.COM

LANDSCAPE ARCHITECT

GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900–7220 CONTACT: BRYNHILDR HALSTEN EMAIL: BRYNHILDERHALSTEN@GALLOWAYUS.COM SURVEYOR GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900–7220 CONTACT: BILL BROOKS

EMAIL: BILLBROOKS@GALLOWAYUS.COM

CITY & UTILITY CONTACTS

### WATER

WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG WASTEWATER WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG ELECTRIC MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD., FALCON, CO 80831 TELE: (800) 388-9881 CONTACT: GINA PERRY EMAIL: GINA.POMVEA.COOP NATURAL GAS COLORADO SPRINGS UTILITIES 7710 DURANT DRIVE, P.O. BOX 1103, MAIL CODE 2150 COLORADO SPRINGS, CO 80947-2150 (719) 668–5573 CONTACT: AARON CASSIO EMAIL: ACASSIO@CSU.ORG FIRE FALCON FIRE PROTECTION DISTRICT 7030 OLD MERIDIAN RD.,

FALCON, CO 80831 TELE: (719) 495-4050 CONTACT: TRENT HARWIG EMAIL: THARWIG@FALCONFIREPD.ORG



LIST OF ABBREVIATIONS SHT - SHEET  $\Delta$  – DEFLECTION ANGLE \_ — 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 FABRIĆ 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

# **MERIDIAN STORAGE, LLC MERIDIAN STORAGE**

# **UTILITY CONSTRUCTION DRAWINGS**

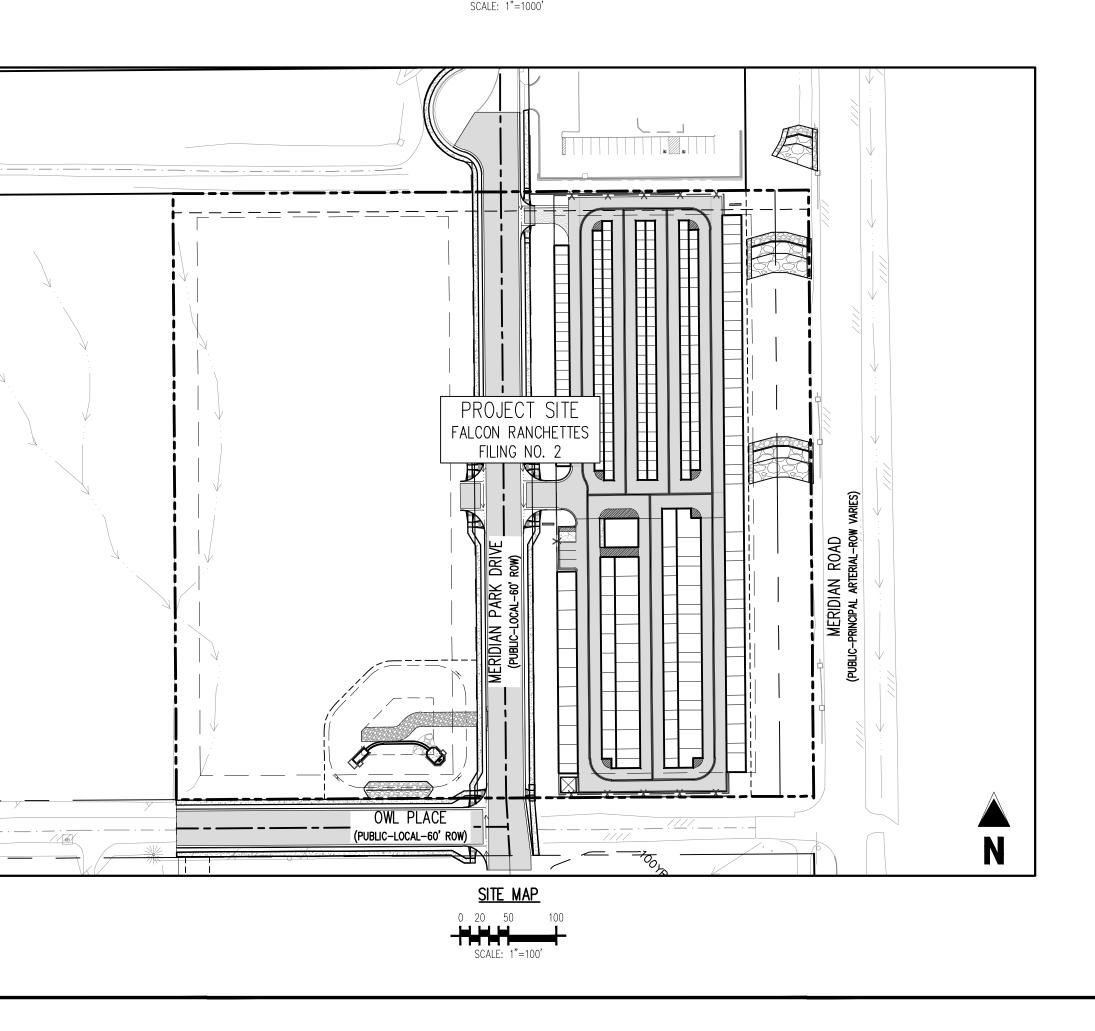
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NOTE: CONTRACTOR SHALL F SHALL HAVE LICENSED SURV	

- CAUTION NOTICE TO CONTRA 1. ALL UTILITY LOCATIONS SHOWN ARE BAS BY THE APPROPRIATE UTILITY COMPANY EVIDENCE AT THE TIME OF SURVEY AND APPROXIMATE LOCATION ONLY. IT IS TH RESPONSIBILITY TO FIELD VERIFY THE LO PUBLIC OR PRIVATE, WHETHER SHOWN ON PRIOR TO CONSTRUCTION. REPORT ANY I ENGINEER PRIOR TO CONSTRUCTION.
- 2. WHERE A PROPOSED UTILITY CROSSES A RESPONSIBILITY TO FIELD VERIFY THE HO UTILITY, EITHER THROUGH POTHOLING OR THE ENGINEER PRIOR TO CONSTRUCTION.



			COPYRIGHT THESE PLANS ARE AN II AND ARE THE PROPERT
.IST TABLE		LEGAL DESCRIPTION	NOT BE DUPLICATED, D WITHOUT THE WRITTEN COPYRIGHTS AND INFR
T TITLE	SHEET 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:	ENFORCED AND PROSE
R SHEET	U0.0	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.	
DTES	U0.1	CONTAINING 9.604 ACRES, MORE OR LESS.	
IY PLAN	U1.1	BENCHMARK	
		THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964"	
ER P&P	U2.1	NAVD88 ELEVATION = $6947.67$	
DETAILS	U2.1	BASIS OF BEARING ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM.	
DETAILS	U2.2	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	
DETAILS	U2.3	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.	
DETAILS TER DETAILS	U2.4 U3.1	· · · · · · · · · · · · · · · · · · ·	
	MONUMENTATION. CONTRACTOR OR DISTURBED MONUMENTATION AT	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.	
ACTOR ED ON MAPS PRO AND FIELD SURFA		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.	
IS TO BE CONSID E CONTRACTOR'S CATION OF ALL U N THE PLANS OR DISCREPANCIESTO	ERED AN	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.	ION DRAWINGS LLC
	THOD. REPORT INFORMATION TO		NR.
	ANY CHANGES OR ALTERATIONS AF SEWER MAINS OR OTHER APPURTED THE OWNER/DEVELOPER SHALL BE FOR MAINS AND SERVICES FROM T SIGNED PRINT NAME DBA ADDRESS	FECTING THE GRADE, ALIGNMENT, ELEVATION AND/OR DEPTH OF COVER OF ANY WATER OR NANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL HE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED. DATE	TY CONSTRUCTION I DIAN STORAGE DIAN STORAGE, LLC
	ADEQUATE TO SATISFY THE FIRE P ON THE PLANS.	ND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED	MERIC
		 DATE	
	FIRE F	PROTECTION DISTRICT	# Date Issue /
	DISTRICT APPROVALS:		
	THE WOODMEN HILLS METROPOLITAI DESIGN AND HAS LIMITED ITS SCOP	N DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE 2E OF REVIEW ACCORDINGLY.	<u> </u>
	WOODMEN HILLS MET WATER DESIGN APPR		<u> </u>
		BY:	
		 S WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE ULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS	
	APPROVAL EXPIRES 180	) DAYS FROM DESIGN APPROVAL.	
	THE WOODMEN HILLS METROPOLITAI DESIGN AND HAS LIMITED ITS SCOP <u>WOODMEN HILLS MET</u> <u>WASTEWATER DESIGN</u>	ROPOLITAN DISTRICT	<u> </u>
		BY:	Project No:
		S WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE	Drawn By: Checked By:
	MAINS AND SERVICES' SHALL RULE	ULES AND REGULATIONS FOR INSTALLATION OF WASTEWATER ) DAYS FROM DESIGN APPROVAL.	Date: COVER SHEE
	ENGINEERS STATEMENT	<u> </u>	
		CIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND ARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE STATE OF COLORADO.	
	SI LUITOATIONS TIAVE DEEN FREP.	THE THE THE ONTENN ESTADLISTIC BT THE STATE OF COLUMADO.	
	RONALD G. DENNIS COLORADO P	E. NO. 0051622	

RONALD G. DENNIS, COLORADO P.E. NO. 0051622

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

INSTRUMENT OF SERVICE TY OF GALLOWAY, AND MAY DISCLOSED, OR REPRODUCED N CONSENT OF GALLOWAY. RINGEMENTS WILL BE ECUTED.



PLACE

JTILITY CONSTRUCTION DRAWINGS MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OV EL PASO COUNTY, FALCON, CO 80931
MER	MEF SF-2	STA EL P
# Date	Issue / Description	STA:

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



#### **GENERAL NOTES:**

1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WOODMEN HILLS METROPOLITAN DISTRICT (WHMD, THE DISTRICT) SPECIFICATIONS.

2. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICT'S 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 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED 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 OF RECORD 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 DISTRICT 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 GUTTER 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 DEEMED 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 <u>SETS ARE RECEIVED BY THE DISTRICT.</u>

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 TO 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 CARSONITE 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.

ATER SYSTEM INSTALLATION NOTES 30. ALL WATER AND FORCE MAIN PIPE SHALL BE AWWA C900 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 CARSONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARSONITE 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 (K81D, K81A, AND K81AM). 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, BAC-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.

<u>WASTEWATER SYSTEM INSTALLATION NOTES</u> 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 RU116 - RUBR-NEK JOINT WRAP, OR APPROVAL EQUAL, AND COATED.

40. COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:

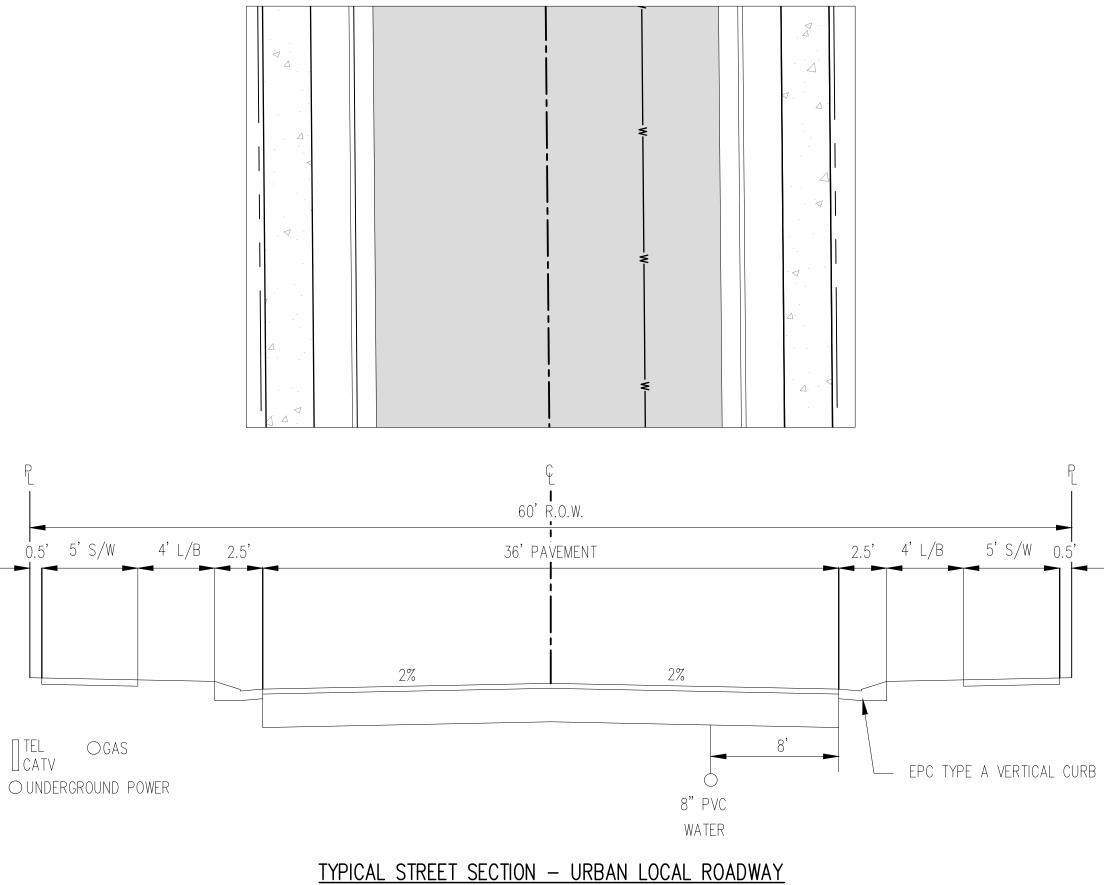
A) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL JET CLEANING, PRESSURE TESTING, VACUUM TESTING, CCTV INSPECTION, COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.

B) NO SANITARY SEWER 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, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.

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.



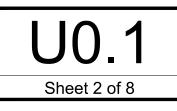
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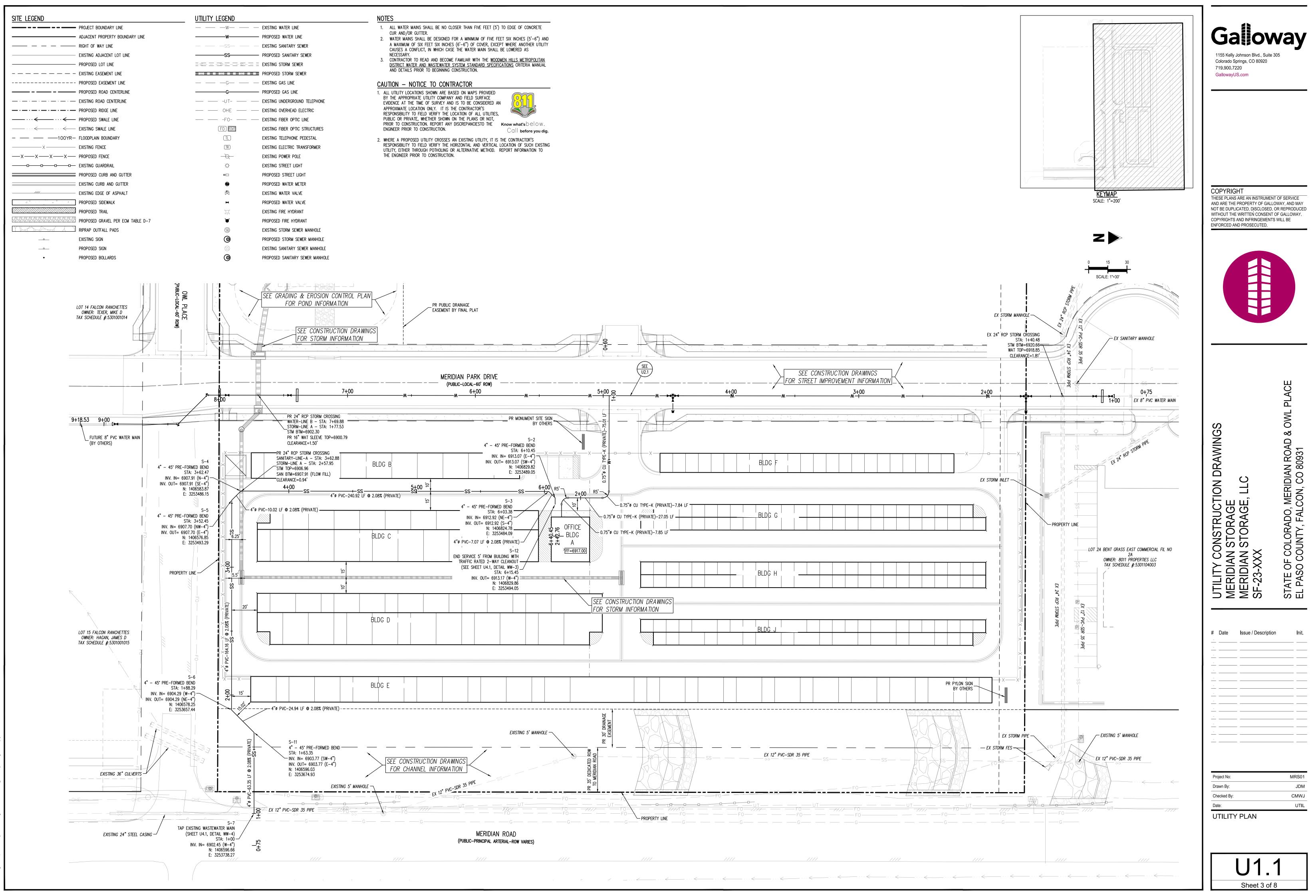
## STREET NAMES

- 1. MERIDIAN PARK DRIVE
- OWL PLACE

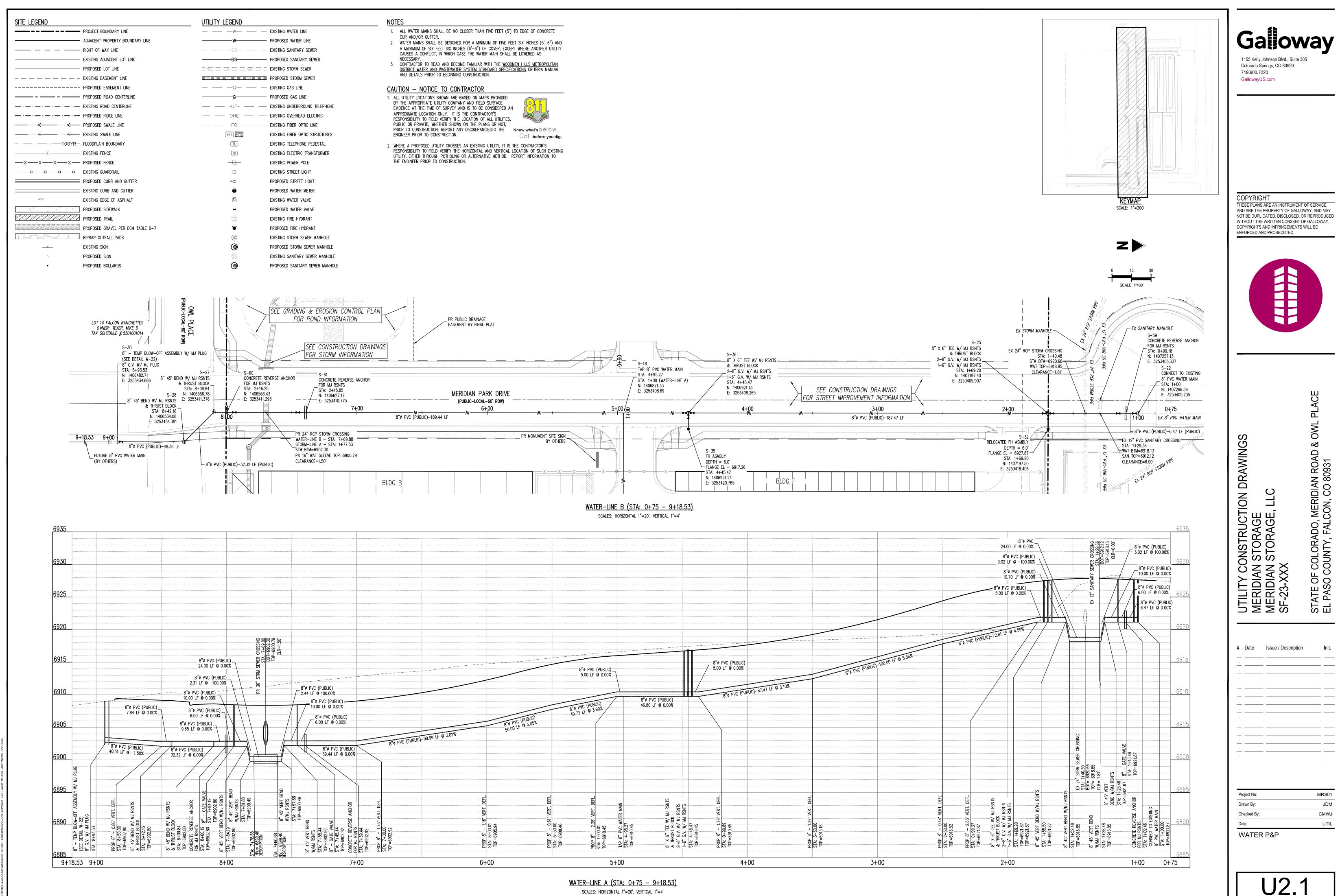
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Colorado Springs 719.900.7220 GallowayUS.cor	on Blvd., Sui , CO 80920		<b>У</b>
COPYRIGHT THESE PLANS ARE , AND ARE THE PROF NOT BE DUPLICATE WITHOUT THE WRIT COPYRIGHTS AND I ENFORCED AND PR	PERTY OF GA D, DISCLOSE TEN CONSE NFRINGEME	ALLOWAY, AND ED, OR REPRO NT OF GALLOV	) MAY DUCED
UTILITY CONSTRUCTION DRAWINGS MERIDIAN STORAGE MERIDIAN STORAGE	SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE	EL PASO COUNTY, FALCON, CO 80931
# Date Issu	ue / Descrip	tion	Init.
Project No: Drawn By: Checked By: Date:			RS01 JDM :MWJ UTIL

NOTES

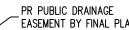






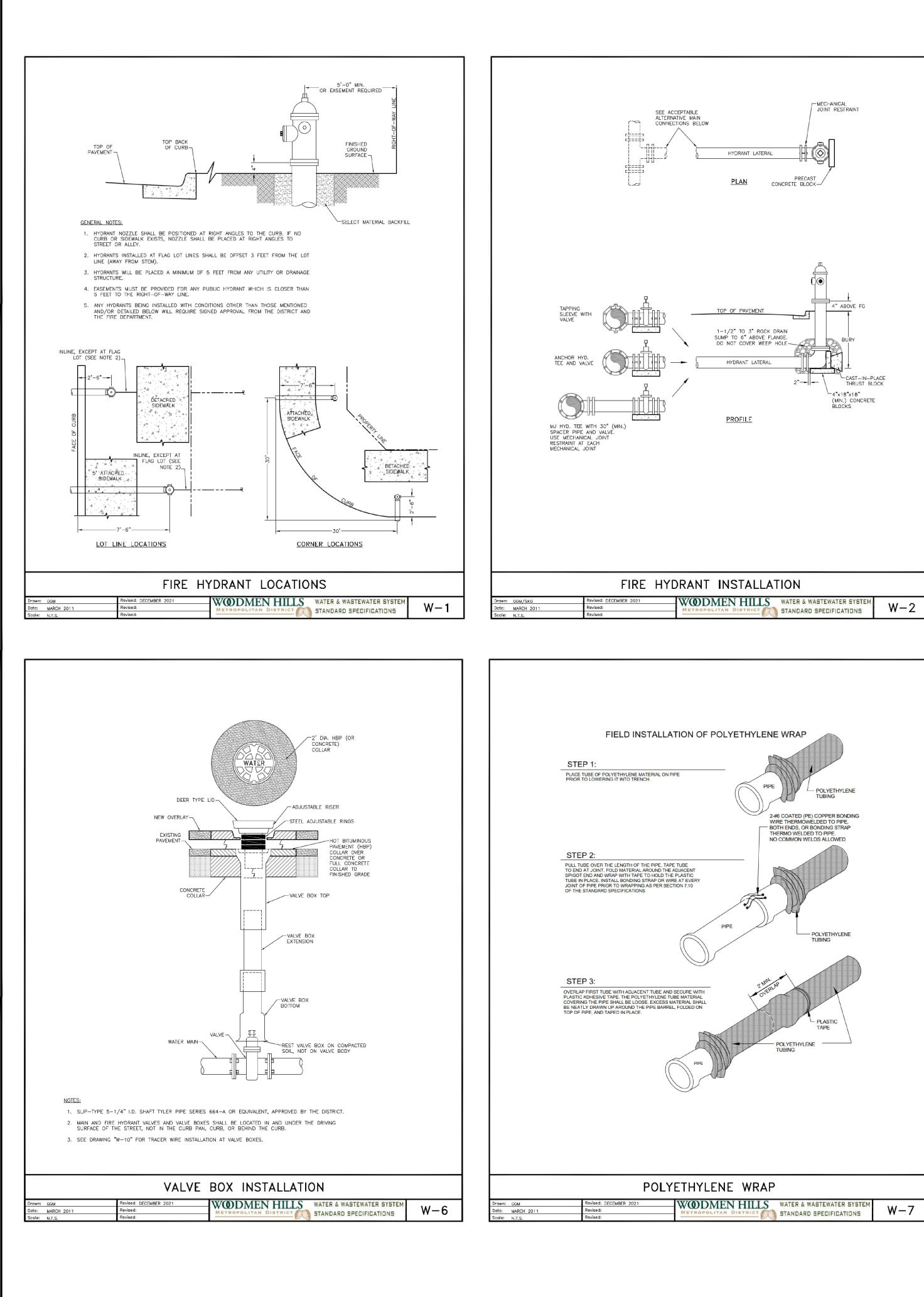


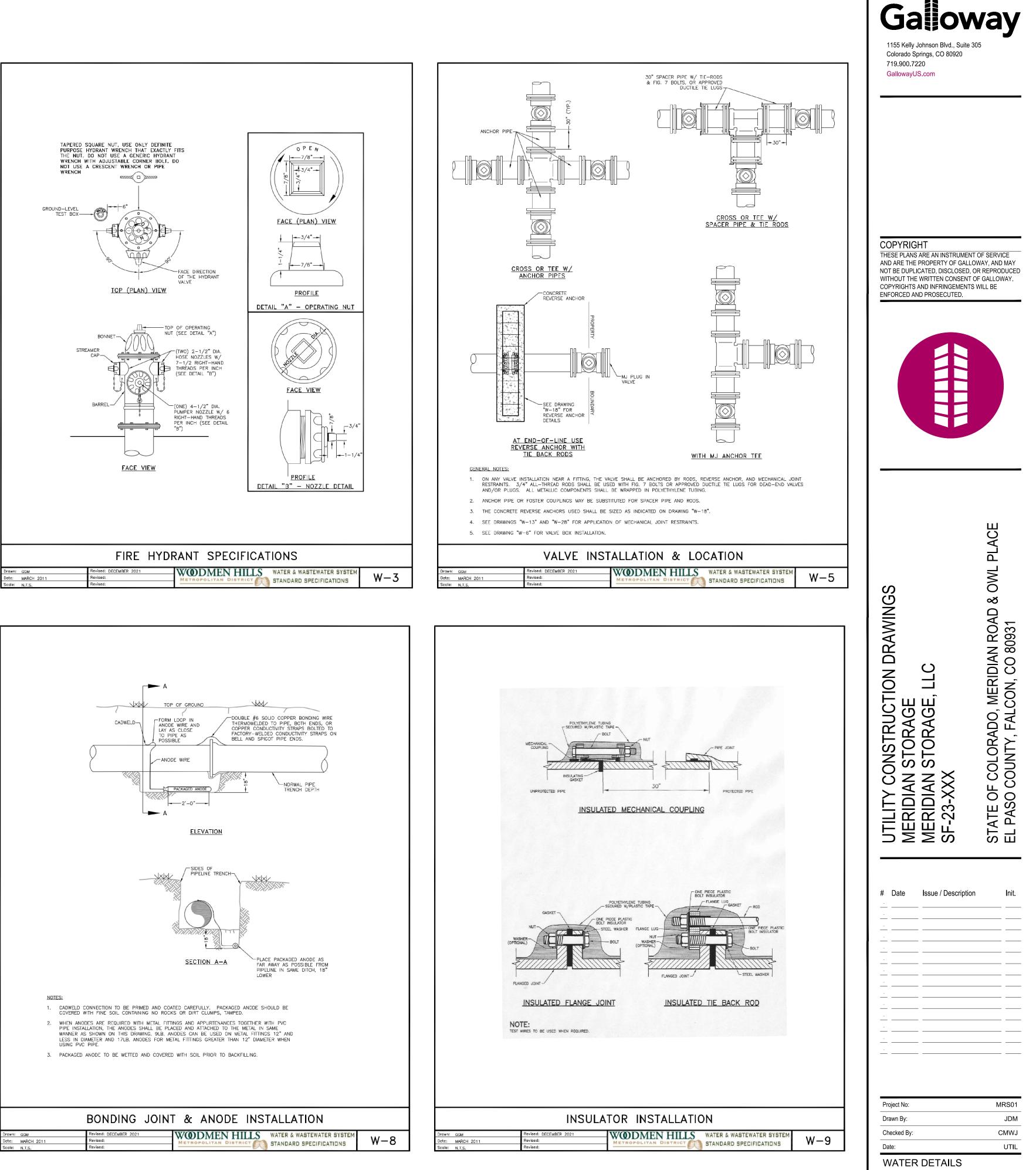


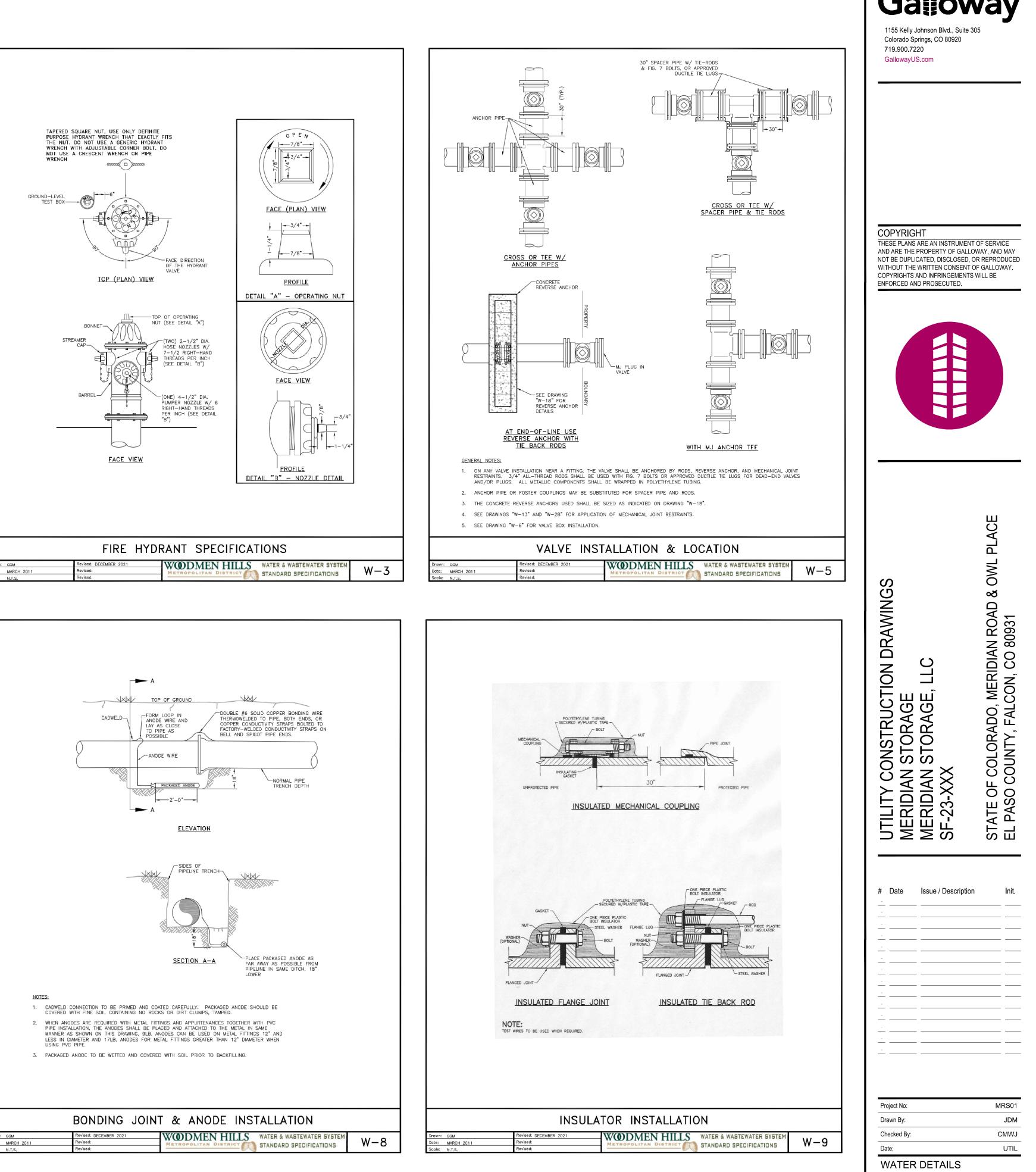


<u>WATER-LINE A (STA: 0+75 - 9+18.53)</u> SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

Sheet 4 of 8

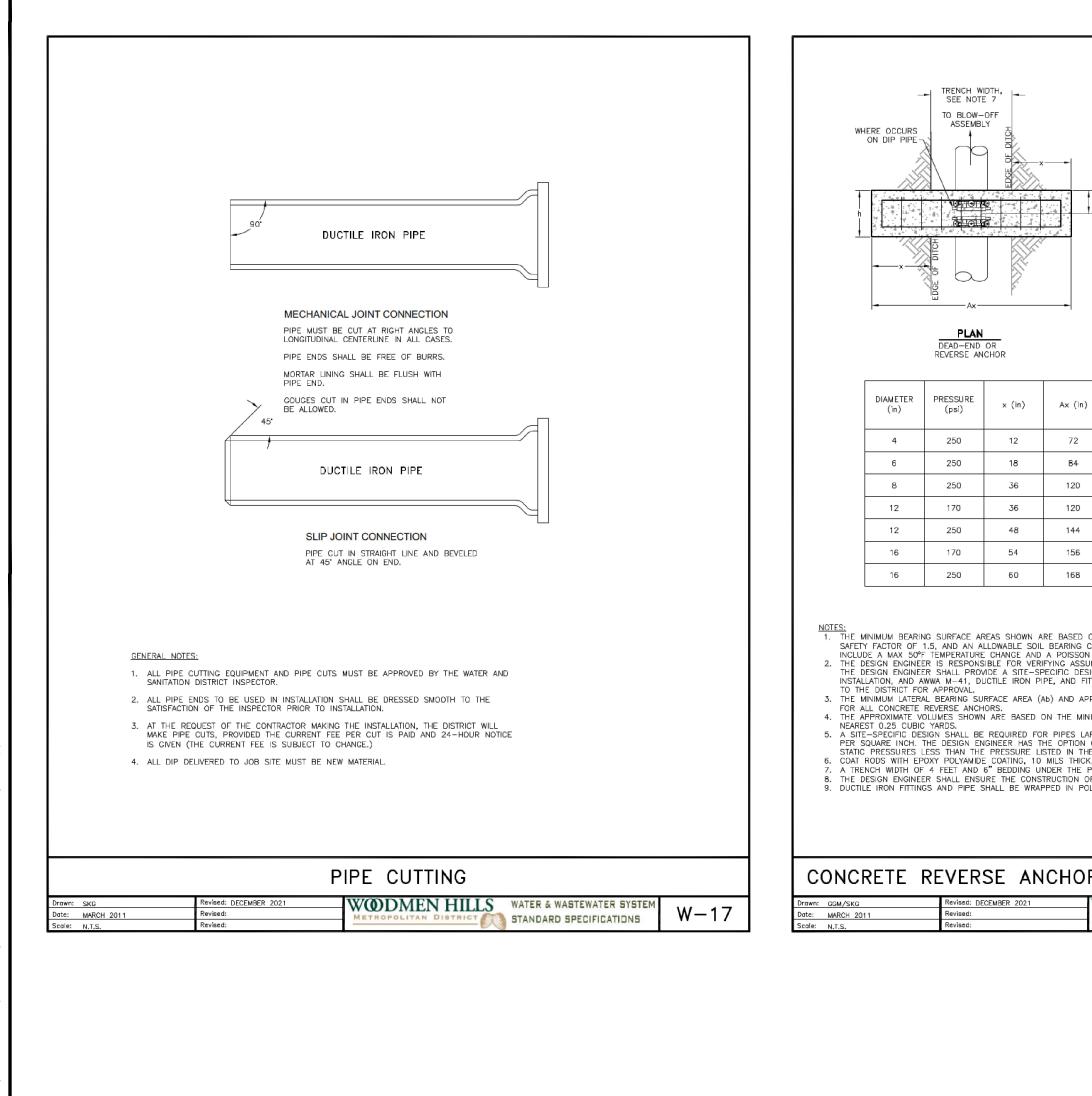




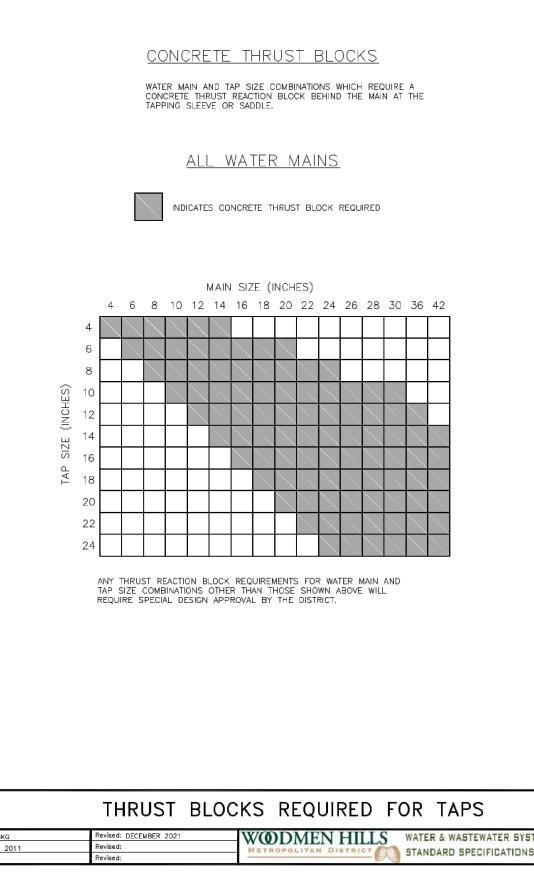


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Sheet 5 of 8	

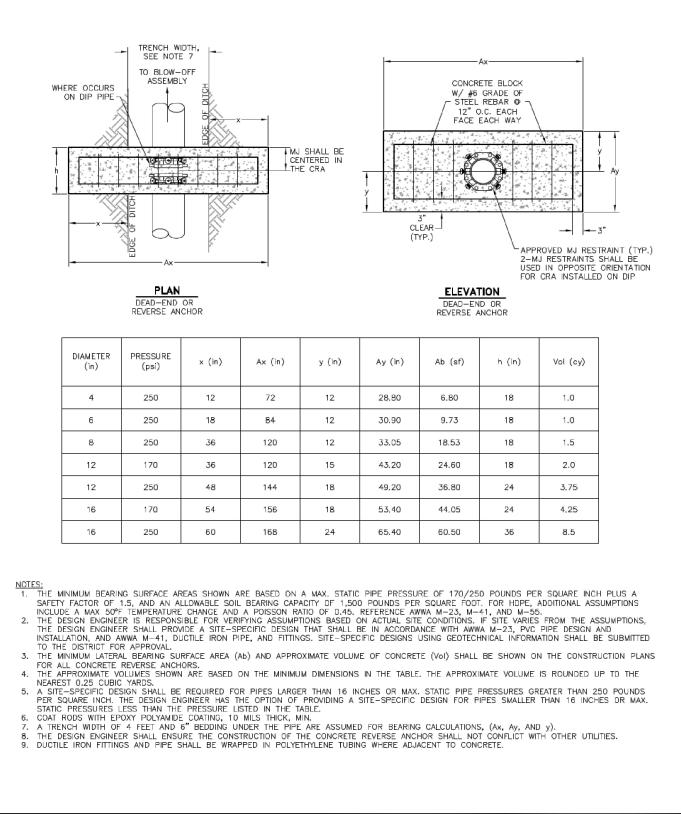




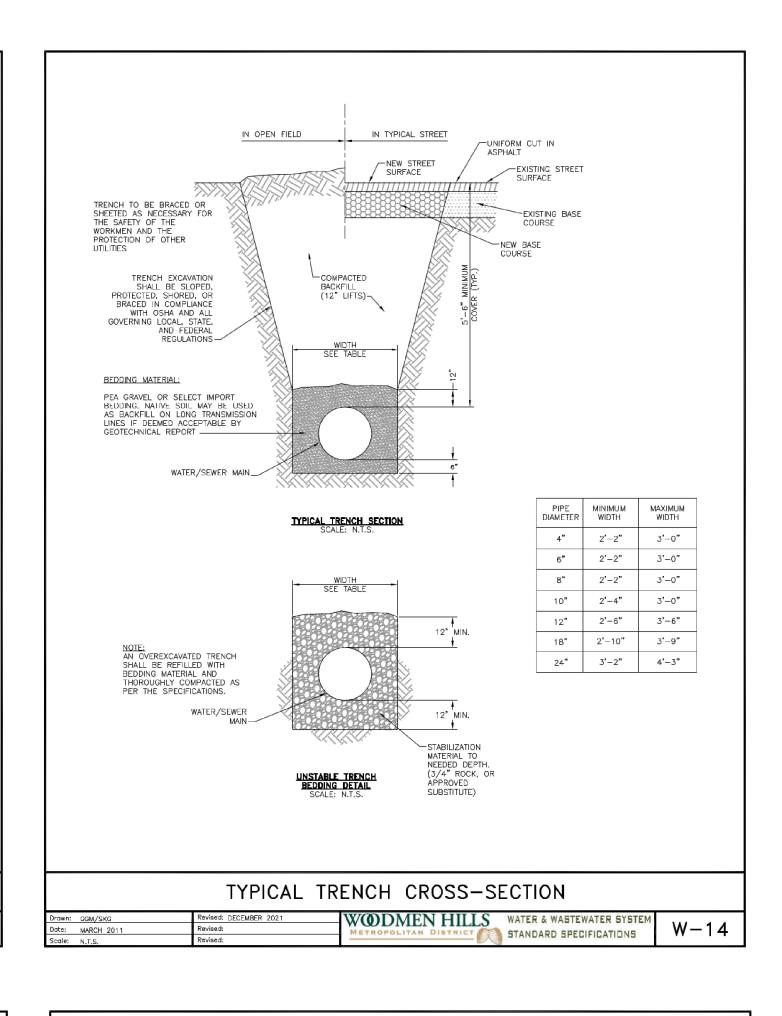
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4       22.5' BEND       2.00       1.41       0.21       0.33       22.00       0.25         4       45' BEND       3.50       3.50       1.87       0.42       0.33       2.00       0.25         4       1'E' & DEND       4.75       4.75       2.18       0.67       0.33       4.75       0.25         6       11.25' BEND       2.00       1.41       0.25       0.50       2.00       0.25         6       45' BEND       3.75       1.37       1.44       0.38       0.50       2.00       0.25         6       45' BEND       7.25       7.25       2.69       0.58       0.50       2.00       0.25         6       12.5' BEND       3.25       3.25       1.40       0.34       0.67       2.00       0.25         8       2.2.5' BEND       3.25       1.25       0.67       2.00       0.25       0.50       0.50         8       12.50       1.2.50       1.2.50       1.6.25       1.6.25       1.6.27       2.00       0.75         112       11.25' BEND       9.75       3.04       3.04       0.64       1.00       2.00       0.50         12       11.25' BEND	4		SURFACE AREA (ft <sup>2</sup> )	Ax (ft)	A <sub>y</sub> (ft)	Cx (ft)	C <sub>y</sub> (ft)	MINIMUM B	APPROXIMATE VOLUME (yd <sup>3</sup> )	-					
45' BEND       3.50       3.50       1.87       0.42       0.33       2.00       0.25         1FEF & OFAD       4.75       4.75       2.18       0.67       0.33       4.75       0.25         11.25' BEND       2.00       2.00       1.41       0.25       0.50       2.00       0.25         22.5' BEND       3.75       3.75       1.94       0.38       0.50       2.00       0.25         22.5' BEND       7.25       7.25       2.69       0.58       0.50       2.00       0.25         11.25' BEND       3.25       3.25       1.80       0.34       0.67       2.00       0.25         12.5' BEND       6.50       6.50       5.55       0.67       0.67       0.050         11.25' BEND       16.25       16.25       1.67       0.67       2.00       0.75         COCK DMENSIONS & VOLMES – PVC       Immunution Minimution Minimuti			11.25* BEND	1.00	1.00	1.00	0.25	0.33	2.00	0.25	-					
TEE & DEAD END         4.75         4.77         2.18         0.67         0.33         4.75         0.25           11.25* BEND         2.00         2.00         1.41         0.25         0.50         2.00         0.25           22.5* BEND         3.75         3.75         1.94         0.38         0.50         2.00         0.25           45* BEND         7.25         7.25         2.69         0.58         0.50         2.00         0.25           11.25* BEND         3.25         3.25         1.80         0.34         0.67         2.00         0.25           22.5* BEND         6.50         6.50         2.55         0.48         0.67         2.00         0.25           22.5* BEND         1.5.5         1.25         0.67         0.67         2.00         0.75           TEE & DEAD         16.25         16.25         0.67         0.67         2.00         0.75           COCK DMENSIONS & VOLUMES - PVC (Moximum Static Pressure = 170 ps)         ************************************		4	22.5° BEND	2.00	2.00	1.41	0.21	0.33	22.00	0.25	-					
END         4.73         4.73         2.16         0.07         0.33         4.75         0.25           11.25' BEND         2.00         1.41         0.25         0.50         2.00         0.25           22.5' BEND         3.75         1.74         0.28         0.50         2.00         0.25           22.5' BEND         7.75         7.25         2.26         0.88         0.50         2.00         0.25           TEE & DEAD         9.50         9.50         3.06         0.83         0.50         2.00         0.25           11.25' BEND         3.25         3.25         1.80         0.34         0.67         2.00         0.25           22.5' BEND         6.50         6.50         2.55         0.48         0.67         2.00         0.50           11.25' BEND         12.50         12.50         3.57         0.67         0.67         2.00         0.75           OCK DIMENSIONS & VOLUMES - PVC (Maximum Static Pressure = 170 psi)         Triting SURPACE ARE(rth) A. (rth /A. (rth /A											-					
22.5' BEND       3.75       3.75       1.94       0.38       0.50       2.00       0.25         45' BEND       7.25       7.25       2.69       0.58       0.50       2.00       0.25         15E & DEAD       9.50       9.50       3.08       0.83       0.50       2.00       0.25         11.25' BEND       3.25       3.25       1.80       0.34       0.67       2.00       0.25         22.5' BEND       6.50       6.50       2.55       0.48       0.67       2.00       0.25         22.5' BEND       12.50       12.50       3.57       0.67       0.67       2.00       0.50         112.5' BEND       16.25       16.25       4.64       1.08       0.67       2.00       0.75         OCK DIMENSIONS & VOLUMES - PVC (Maximum Static Pressure = 170 psi)       Immutum MIMIMUM MINIMUM MINIMUM APPROXIMATE VOLUME (yd)       VOLUME (yd)         11.25' BEND       4.75       2.18       2.18       0.43       1.00       2.00       0.55         22.5' BEND       9.25       3.04       3.04       0.64       1.00       2.00       0.50         11.25' BEND       18.00       4.27       3.75       0.66       1.33       2.00 <t< th=""><th>Image: https://www.image: https://wwww.image: https://www.image: https://www.image: https://www.image: https://wwww</th><th></th><th>END</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th></t<>	Image: https://www.image: https://wwww.image: https://www.image: https://www.image: https://www.image: https://wwww		END								-					
45' BEND       7.25       7.25       2.69       0.58       0.50       2.00       0.25         TEE & DEAD       9.50       9.50       3.08       0.83       0.50       2.00       0.50         11.25' BEND       3.25       3.25       1.80       0.34       0.67       2.00       0.25         22.5' BEND       6.50       6.50       2.55       0.48       0.67       2.00       0.25         45' BEND       11.25' BEND       16.25       16.25       1.67       0.67       0.00       0.50         TEE & DEAD       16.25       16.25       4.64       1.08       0.67       2.00       0.75         OCK DIMENSIONS & VOLUMES - PVC (Maximum Static Pressure = 170 psi)         TYPE OF MINNUM ECARING       MINNUM MINIMUM MIN	Image: Note:										-					
TEE         & DEAD         9.50         3.08         0.83         0.50         2.00         0.50           11.25         BEND         3.25         3.25         1.80         0.34         0.67         2.00         0.25           22.5         BEND         12.50         12.50         3.57         0.67         2.00         0.25           45         BEND         12.50         12.50         3.57         0.67         0.67         2.00         0.50           TEE         & DEAD         16.25         16.25         4.64         1.08         0.67         2.00         0.75           COK DIMENSIONS & VOLUMES – PVC (Maximum Static Pressure = 170 psi)           TYPE OF         MINIMUM BEARING         MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM (MINIMUM MINIMUM M	Image: Provide a state         Image: Provide a state<										-					
END         3.25         3.25         1.80         0.34         0.67         2.00         0.25           22.5' BEND         6.50         6.50         2.55         0.48         0.67         2.00         0.25           45' BEND         12.50         12.50         15.7         0.67         0.67         2.00         0.25           45' BEND         12.50         16.25         16.25         4.64         1.08         0.67         2.00         0.75           COK DIMENSIONS & VOLUMES - PVC (Maximum Static Pressure = 170 psi)         TYPE OF         MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM (MINIMUM (	Image: How in the state is and intervent of the state is an intervent of the state is and the state is and intervent of the state is and the state is and t															
22.5' BEND       6.50       6.50       2.55       0.48       0.67       2.00       0.25         45' BEND       12.50       12.50       3.57       0.67       0.67       2.00       0.50         TEE & DEAD END       16.25       16.25       4.64       1.08       0.67       2.00       0.75         OCK DIMENSIONS & VOLUMES - PVC (Woximum Static Pressure = 170 psi)       TYPE OF       MINIMUM MINIM	Image: Non-Weight Server (Non-Weight Server)       Image: Non-Weight Server (Non-Weight Server)       Image: Non-Weight Server (Non-Weight Server)       Image: Non-Weight Server)         Image: Non-Weight Server (Non-Weight Server)       Image: Non-Weight Server)															
45' BEND       12.50       12.50       3.57       0.67       0.67       2.00       0.50         TEE & DEAD END       16.25       16.25       4.64       1.08       0.67       2.00       0.75         OCK DIMENSIONS & VOLUMES - PVC       (Maximum Static Pressure = 170 psi)       PPROXIMATE VOLUME (yd <sup>3</sup> )       Arrow (the back of the ba	Image: Provide the set of the set o															
TEE         & DEAD         16.25         16.25         4.64         1.08         0.67         2.00         0.75           OCK DIMENSIONS         & VOLUMES - PVC         (Maximum Static Pressure = 170 psi)         TYPE of FITTING         MINIMUM BEARING         MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM VOLUME (yd3)           11.25' BEND         4.75         2.18         2.18         0.43         1.00         2.00         0.25           22.5' BEND         9.25         3.04         3.04         0.64         1.00         2.00         0.75           TEE         & DEAD         18.00         4.92         3.66         1.00         1.00         2.00         0.75           TEE & DEAD         23.50         6.42         3.66         1.00         2.00         0.75           TEE & OFAD         23.50         6.42         3.66         1.33         2.00         0.50           22.5' BEND         16.00         4.27         3.75         0.66         1.33         2.00         0.75           45' BEND         31.00         8.27         3.75         1.00         1.33         3.64         1.75           TEE & DEAD         40.50         10.80         3.75         1.92         1.33	Image: http://www.set/actionalized/set/actionalized										Ax B					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LENG         LENG <thleng< th="">         LENG         LENG         <thl< td=""><td></td><td>TEE &amp; DEAD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thl<></thleng<>		TEE & DEAD													
E       TYPE OF FITTING       MINIMUM BEARING SURFACE AREA (ft²)       MINIMUM MINIMUM MINIMUM MINIMUM Ax (ft)       A, (ft)       A, (ft)       A, (ft)       A, (ft)       A, (ft)       A, (ft)       C, (ft)       C, (ft)       B       VOLUME (yd³)         11.25' BEND       4.75       2.18       2.18       0.43       1.00       2.00       0.25         22.5' BEND       9.25       3.04       3.04       0.64       1.00       2.00       0.50         45' BEND       18.00       4.92       3.66       1.00       1.00       2.00       0.75         TEE & DEAD END       23.50       6.42       3.66       1.46       1.00       2.48       1.00         11.25' BEND       8.00       2.83       2.83       0.44       1.33       2.00       0.50         22.5' BEND       16.00       4.27       3.75       0.66       1.33       2.00       0.75         45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00         OCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 psi)       TYPE OF       MINIMUM MINIMUM M	NAM         Size         Type:         OF         MUNULUE ELANING         MUNULUE MAINING         MUNULUE         PERCENTATE           12         11.25         BEND         4.75         2.18         2.10         0.43         1.00         2.00         0.25           12         2.2.5         BEND         4.75         2.18         2.10         0.43         1.00         2.00         0.55           12         12.4         57         BEND         4.30         0.64         1.00         2.00         0.57           12         12.6         BEND         11.00         4.00         0.50         0.50         0.50           13         12.6         2.58         1.00         1.32         3.64         1.75           16         4.67         BEND         1.80         3.71         1.92         1.33         4.44         3.00           THENUST         BENOK         MAININGUE         TOP         (MAININGUE         MAININGUE         PERCENTATE         PERCENTATE           12         11.25         BENO         1.30         3.68         1.64         1.00         2.00         0.50           12         12.25         BENO         1.3.50 <td< td=""><td></td><td>END</td><td>10.20</td><td>10.20</td><td>1.01</td><td></td><td>0.07</td><td>2.00</td><td>0.70</td><td></td><td></td><td></td><td></td></td<>		END	10.20	10.20	1.01		0.07	2.00	0.70						
FITTING       SURFACE AREA (ft <sup>2</sup> )       Ax (ft)       Ay (ft)       Cx (ft)       Cy (ft)       B       VOLUME (yd <sup>3</sup> )         11.25' BEND       4.75       2.18       2.18       0.43       1.00       2.00       0.25         22.5' BEND       9.25       3.04       3.04       0.64       1.00       2.00       0.50         45' BEND       18.00       4.92       3.66       1.00       1.00       2.00       0.75         TEE & DEAD END       23.50       6.42       3.66       1.46       1.00       2.48       1.00         11.25' BEND       8.00       2.83       2.83       0.44       1.33       2.00       0.50         22.5' BEND       16.00       4.27       3.75       0.66       1.33       2.00       0.75         45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00         OCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 psi)       E       TYPE OF       MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM APPROXIMATE	(N)         TTTNO         SUBFACE AREA (**)         A. (**)         A. (**)         C. (**)         B         VOLUME (x*)           12         11.27         BBN0         4.75         2.18         2.16         0.42         1.00         2.00         0.25           12         22.57         BRN0         9.25         3.04         3.64         1.00         2.00         0.55           12         45' BEN0         18.00         4.82         3.66         1.00         2.00         0.75           12         11.67         BEN0         0.00         2.85         2.81         1.00         2.46         1.00           16         12.2.57         BEN0         10.00         4.27         3.75         0.66         1.33         2.00         0.75           16         42' BEN0         3.00         4.23         3.34         4.44         3.00           176         128' DENO BUSINE & VOLUES - DP (Montrum Static Pressure - 250 m)         D         <										1					
22.5' BEND       9.25       3.04       3.04       0.64       1.00       2.00       0.50         45' BEND       18.00       4.92       3.66       1.00       1.00       2.00       0.75         TEE & DEAD       23.50       6.42       3.66       1.46       1.00       2.48       1.00         11.25' BEND       8.00       2.83       2.83       0.44       1.33       2.00       0.50         22.5' BEND       16.00       4.27       3.75       0.66       1.33       2.00       0.75         45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00	12       22.5       BIN       9.25       3.04       3.04       0.64       1.00       2.00       0.50         12       117       45' BEND       18.00       4.42       3.86       1.00       1.00       2.00       0.75         12       117       118       21.30       6.42       3.86       1.46       1.00       2.48       1.00         16       112.2       118       0.00       4.27       3.75       0.68       1.33       2.00       0.50         16       112.5       116.00       4.27       3.75       0.68       1.33       2.00       0.75         16       112.5       116.00       4.27       3.75       1.00       1.33       4.44       3.00         176       112.67       10.80       4.05       10.00       1.37       1.44       3.00         176       112.75       117.6       3.44       1.00       2.00       0.50       0.50         12       117.5       1.40       1.00       1.00       3.05       1.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.5															
45' BEND       18.00       4.92       3.66       1.00       1.00       2.00       0.75         TEE & DEAD END       23.50       6.42       3.66       1.46       1.00       2.48       1.00         11.25' BEND       8.00       2.83       2.83       0.44       1.33       2.00       0.50         22.5' BEND       16.00       4.27       3.75       0.66       1.33       2.00       0.75         45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00	12       45' BEND       16.00       4.92       3.66       1.00       1.00       2.00       0.75         12       13       14       13       14       13       13       13       13       13       13       13       13       14       13       13       13       13       13       13       13       13       13       13       13       13       13       13	12	11.25* BEND	4.75	2.18	2.18	0.43	1.00	2.00	0.25	_					
TEE       & DEAD       23.50       6.42       3.66       1.46       1.00       2.48       1.00         11.25' BEND       8.00       2.83       2.83       0.44       1.33       2.00       0.50         22.5' BEND       16.00       4.27       3.75       0.66       1.33       2.00       0.75         45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00         OCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 psi)       TYPE OF       MINIMUM MI	12       TEE & DEAD       23.50       6.42       3.66       1.46       1.00       2.48       1.00         16       11.25' BEND       8.00       2.83       2.83       0.44       1.33       2.00       0.50         16       45' BEND       16.00       4.27       3.75       1.00       1.33       3.64       1.75         16       12' BEND       4.05.0       1.03       3.75       1.82       1.33       4.44       3.00         HEWER DOCK DMENSIONS & VOLUMES - DP (Maximum State Pressure - 250 pst)       Minimum Patter Pressure - 250 pst)         WAN 32'L TYPE OF MINIMUM DEARING       MINIMUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	12	22.5° BEND	9.25	3.04	3.04	0.64	1.00	2.00	0.50		n = 1				
END         23.50         6.42         3.66         1.46         1.00         2.48         1.00           11.25* BEND         8.00         2.83         2.83         0.44         1.33         2.00         0.50           22.5* BEND         16.00         4.27         3.75         0.66         1.33         2.00         0.75           45' BEND         31.00         8.27         3.75         1.00         1.33         3.64         1.75           TEE & DEAD END         40.50         10.80         3.75         1.92         1.33         4.44         3.00	12       12.0       2.33       0.54       2.48       1.00         16       12.5       9EN0       8.00       2.35       2.85       1.00       1.00         16       12.5       9EN0       16.00       4.27       3.75       0.66       1.33       2.00       0.75         16       17E       4.9       9EA0       3.00       1.33       3.64       1.76         16       17E       4.9       9EA0       4.0.50       1.0.80       3.75       1.92       1.33       4.44       3.00         TITTING SUPPROVEMENT DIP (Maximum Stutic Pressure - 250 ps)         172       11.25       9EN0       6.75       2.60       2.60       0.00       0.50         12       12.5       9EN0       6.75       2.60       2.60       0.00       0.50       0.50         12       12.5       9EN0       6.75       2.60       2.60       0.50       0.50       0.50         12       13.5       3.64       1.44       1.00       3.95       1.50       0.50       0.50       0.50         14       12.25       9EN0       13.57       3.75       1.92       1.33       5.37       4.00	12		18.00	4.92	3.66	1.00	1.00	2.00	0.75						
22.5' BEND       16.00       4.27       3.75       0.66       1.33       2.00       0.75         45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00         OCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 psi)       TYPE OF       MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM APPROXIMATE	16         22.5' BEND         16.00         4.27         3.76         0.68         1.33         2.00         0.75           115         45' BEND         31.00         8.27         3.76         1.00         1.33         3.64         1.75           116         116         0.50         1.08         3.75         1.92         1.33         4.44         3.00           NAN SIZE         PEDD         0.67         2.60         0.64         1.00         2.00         0.50           12         12.2.5' BEND         6.75         2.60         2.66         0.44         1.00         2.00         0.50           12         12.2.5' BEND         6.75         2.60         2.66         0.44         1.00         2.00         0.50           12         13.50         3.46         0.44         1.00         2.00         0.50           12         12.2.5' BEND         2.2.5         7.17         3.66         1.00         1.00         3.95         2.2.5           16         11.25' BEND         23.25         6.20         3.75         1.92         1.33         6.86         6.60           15         45' BEND         23.25         6.20         3.75	12		23.50	6.42	3.66	1.46	1.00	2.48	1.00		λĪ				
45' BEND       31.00       8.27       3.75       1.00       1.33       3.64       1.75         TEE & DEAD END       40.50       10.80       3.75       1.92       1.33       4.44       3.00         OCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 psi)         TYPE OF       MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM APPROXIMATE	16         45° BEND         31.00         8.27         3.75         1.00         1.33         3.84         1.75           16         TEE & DEAD         40.50         10.80         3.75         1.92         1.33         4.44         3.00           THUST BLOCK DMENSIONS & VOLUMES - DP (Maximum Static Pressure = 250 pai)         MINNUUM BLARNO, MINNUUM NIMUM MUMUM VOLUM APPROXIMATE (N.)         MINNUUM BLARNO, MINNUUM NIMUM MUMUM VOLUM VOLUME (ye <sup>2</sup> )           12         12.25' BEND         6.75         2.60         0.43         1.00         2.00         0.50           12         12.5' BEND         6.75         2.60         0.43         1.00         2.00         0.50           12         12.5' BEND         6.75         2.60         0.43         1.00         2.00         0.50           12         12.6' DEND         3.56         3.66         1.44         1.00         3.95         2.25           16         12.5' BEND         3.12         3.75         1.00         1.33         6.57         4.00           16         12.5' BEND         45.50         12.13         3.75         1.92         1.33         6.98         6.50           2755         16         12.25' BEND         45.60         15.87 <td></td> <td>1-</td> <td></td> <td></td>											1-				
TEE         & DEAD END         40.50         10.80         3.75         1.92         1.33         4.44         3.00           LOCK         DIMENSIONS & VOLUMES - DIP         (Maximum Static Pressure = 250 psi)	16         TEE & DEAD         40.50         10.80         3.75         1.92         1.33         4.44         3.00           THRUST BLOCK DMENSIONS & VOLUMES - DP (Moximum Static Pressure = 250 psi)         MAN SIZE         TYPE OF         MINIMUM ELATING         MINIMUM											$\sim$				
END         40.50         10.60         3.75         1.92         1.33         4.44         3.00           LOCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 psi)         E         TYPE OF         MINIMUM BEARING         MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM APPROXIMATE	ID         END         4.0.30         ID.BS         J.7.3         I.3.2         I.4.4         J.0.0           IPRUST BLOCK DMENSIONS & VOLUMES - D.PP (Moximum Static Pressure = 250 psi)         MAIN SIZE         FTENDS         MAIN SIZE         FTENDS         MAIN SIZE         FTENDS         MAIN MUE LARING, WINMUM BLARING, WINMUM MINIMUM MINUM MAINUM MAINU															
	12       22.5' BEND       13.50       3.69       3.66       0.64       1.00       2.00       0.50         12       45' BEND       26.25       7.17       3.66       1.00       1.00       3.09       1.50         12       1EE & DEAD END       34.25       9.36       3.66       1.46       1.00       3.95       2.25         16       11.25' BEND       11.75       3.43       3.43       0.44       1.33       2.00       0.5D         16       45' BEND       23.25       6.20       3.75       0.66       1.33       2.77       1.00         16       45' BEND       45.50       12.13       3.75       1.00       1.33       5.57       4.00         16       TEE MD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         7ES:        THE MINMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY         62.50       SOUARE FET. REFERENCE AWAM A-23 AND A-41.        BECONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENCINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL STIE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENCINCER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWAM A-23, PVC PIPE - DESIGN AND INST	MAIN SIZE	TYPE OF	MINIMUM BEARING	MINIMUM	MINIMUM	MINIMUM	MINIMUM	MINIMUM		]					
11.25° BEND 6.75 2.60 2.60 0.43 1.00 2.00 0.50	12       45' BEND       26.25       7.17       3.66       1.00       1.00       3.09       1.50         12       TEE & DEAD       34.25       9.36       3.66       1.46       1.00       3.95       2.25         16       11.25' BEND       21.25       6.20       3.75       0.66       1.33       2.77       1.00         16       45' BEND       23.25       6.20       3.75       1.66       1.33       2.77       1.00         16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.96       6.50         TES: <td <td="" colsp<="" colspan="2" th=""><th>12</th><th>11.25" BEND</th><th>6.75</th><th>2.60</th><th>2.60</th><th>0.43</th><th>1.00</th><th>2.00</th><th>0.50</th><th></th><th></th><th></th><th></th></td>	<th>12</th> <th>11.25" BEND</th> <th>6.75</th> <th>2.60</th> <th>2.60</th> <th>0.43</th> <th>1.00</th> <th>2.00</th> <th>0.50</th> <th></th> <th></th> <th></th> <th></th>		12	11.25" BEND	6.75	2.60	2.60	0.43	1.00	2.00	0.50				
22.5' BEND 13.50 3.69 3.66 0.64 1.00 2.00 0.50	12         TEE         & DEAD         34.25         9.36         3.66         1.46         1.00         3.95         2.25           16         11.25' BEND         11.75         3.43         3.43         0.44         1.33         2.00         0.50           16         12.25' BEND         23.25         6.20         3.75         0.66         1.33         2.77         1.00           16         45' BEND         45.50         12.13         3.75         1.92         1.33         6.98         6.50           7ES:         .         .         THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 15 AND AM ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEASEND MACHAN AND M-41.           .         .         THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 15.50 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEASEND MACHAN AND M-41.           .	12	22.5" BEND	13.50	3.69	3.66	0.64	1.00	2.00	0.50	-					
	12       END       34.25       9.36       3.60       1.44       1.00       3.95       2.25         16       11.25' BEND       11.75       3.43       3.43       0.44       1.33       2.00       0.50         16       22.5' BEND       23.25       6.20       3.75       0.66       1.33       2.77       1.00         16       45' BEND       45.50       12.13       3.75       1.00       1.33       6.57       4.00         16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         7ES:       .       THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOLL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FETEL, REFERENCE AWAM AP43. AND AP441.         2.       THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER AND APPROXIMATE VOLUME A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWAM.         4.00 AWAM -41, DUCTILE-IRON PIPE AND FITTINES. SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THEQUIREMENTS.         1.	12		26.25	7.17	3.66	1.00	1.00	3.09	1.50	-					
	16       22.5' BEND       23.25       6.20       3.75       0.66       1.33       2.77       1.00         16       45' BEND       45.50       12.13       3.75       1.00       1.33       5.57       4.00         16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         27ES:       .       .       THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST O.25 SQUARE FECT. REFERENCE AWA M-23 AND M-41.         2.       THE DESIGN ENGINEER SHALL PROVIDE A STEE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND NOT STALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. STE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND NOT STALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. STE-SPECIFIC DESIGN IN ALCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND NOT STALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. STE-SPECIFIC DESIGN INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW.         5.       THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE TROULINE SECTION 4.4 FOR CONSTRUCTION PLANS FOR ALL CONCRETE TROULINE SECTION 4.4 FOR CONSTRUCTION PLANS FOR ALL CONCRETE TO THE DISTRICT FOR THEYS SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM BEARING SURFA	12		34.25	9.36	3.66	1.46	1.00	3.95	2.25	-					
END 34.23 5.00 5.00 1.00 5.35 2.23	16       45' BEND       45.50       12.13       3.75       1.00       1.33       5.57       4.00         16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         THE       MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT, BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.         2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGNS IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTLE-IRON PIPE AND FITTINGS, SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITED TO THE DISTRICT FOR REVIEW.         0. THE MINIMUM BERING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.       THE APPROXIMATE VOLUMES SHOWN ARE BASED O.1 THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME BUSED IF THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE DISCNE THAS MAR MARE BASED O.1 THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME SHOWN ARE BASED O.0 THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME SHOWN ARE BASED O.0 THE DISCNE THAN THE OPTION ON THE DISCNE THA	16	11.25" BEND	11.75	3.43	3.43	0.44	1.33	2.00	0.50	-					
END         11.75         3.43         3.43         0.44         1.33         2.00         0.50	16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         STES:       .       .       THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.         0.       . <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>										-					
ILI25' BEND         ILI75         3.43         3.43         0.44         1.33         2.00         0.50           22.5' BEND         23.25         6.20         3.75         0.66         1.33         2.77         1.00	10       END       59.50       15.87       5.75       1.92       1.33       6.98       6.50         XTES:       .       THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.         2.       THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVEW.         5.       THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         6.       THE MINIMUM BEARING ONLY FAC AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         6.       THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.         6.       THE BOTTOM OF THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINI										-					
END         11.75         3.43         3.43         0.44         1.33         2.00         0.50           22.5' BEND         23.25         6.20         3.75         0.66         1.33         2.77         1.00           45' BEND         45.50         12.13         3.75         1.00         1.33         5.57         4.00	<ol> <li>THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.</li> <li>THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGNS IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW.</li> <li>THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.</li> <li>THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.</li> <li>THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM BEARING SURFACE ON A PIPE DEPTH OF 5.5 FEET.</li> <li>A SITE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN NAE BASED ON A PIPE DEPTH OF 5.5 FEET.</li> <li>A SITE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES MALLE REQUIRED FOR PIPES USARE THAN 16 INCHES OR MAX STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH.</li> <li>ALL CALCULATIONS SHALL BE REQUIRED FOR REVIEW.</li> </ol>	16		59.50	15.87	3.75	1.92	1.33	6.98	6.50						
45' BEND         26.25         7.17         3.66         1.00         1.00         3.09         1.50           TEE & DEAD         34.25         8.36         3.66         1.46         1.00         3.95         2.25	<ol> <li>THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.</li> <li>THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGNS INCLUDING ECOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW.</li> <li>THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.</li> <li>THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.</li> <li>THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.</li> <li>THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (AY) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5.5 FEET.</li> <li>A SITE-SPECIFIC DESIGN FINGINEER HAS THE OPTION OF PROVIDING A SITE-SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH.</li> <li>ALL CALCULATIONS SHALL BE PROVIDED TO THE DISTRICT FOR REVIEW.</li> </ol>	12 12 16 16 16	45' BEND TEE & DEAD END 11.25' BEND 22.5' BEND 45' BEND TEE & DEAD	26.25 34.25 11.75 23.25 45.50	7.17 9.36 3.43 6.20 12.13	3.66 3.66 3.43 3.75 3.75	1.00 1.46 0.44 0.66 1.00	1.00 1.00 1.33 1.33 1.33	3.09 3.95 2.00 2.77 5.57	1.50 2.25 0.50 1.00 4.00						
	12       TEE & DEAD       34.25       9.36       3.66       1.46       1.00       3.95       2.25         16       11.25' BEND       11.75       3.43       3.43       0.44       1.33       2.00       0.50         16       12.25' BEND       23.25       6.20       3.75       0.66       1.33       2.77       1.00         16       45' BEND       45.50       12.13       3.75       1.00       1.33       5.57       4.00         16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         2*       THE MINMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY ACTOR OF 1.500 POUNDS PER SQUARE FORT. BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FORT. BEARING SURFACE AREA IS ROUNDED UP TO THE VAREAU M23 AND M41.         17E DESIGN ENGINEER IS RESPONSIBLE FOR VERFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENCLUDE OF CONCRAMCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWAA M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN IN ACCOBANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWAA M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN IN ACCOBANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWAA M-41, DUCTLE-IRON PIPE AND PROVIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THE MINUMUM BEARING SURFACE AREA AND APPROXIMATE VO										-					
	12         END         34.23         9.36         3.66         1.46         1.00         3.95         2.25           16         11.25' BEND         11.75         3.43         3.43         0.44         1.33         2.00         0.50           16         22.5' BEND         23.25         6.20         3.75         0.66         1.33         2.77         1.00           16         45' BEND         45.50         12.13         3.75         1.00         1.33         6.57         4.00           16         TEE with the period         59.50         15.87         1.92         1.33         6.98         6.50           THE MINMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.55 SQUARE FOOT. BEARING SURFACE AREA AND ANELLATION ANAL MAX M -41, DUCILLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M -23, PVC PIPE - DESIGN AND INSTALLATION AND ANAL/WA M -41, DUCILLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M -23, PVC PIPE - DESIGN AND INSTALLATION AND AWA M -41, DUCILLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M -41, DUCILLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN SINCLUDING ECTECHNICAL INFORMATION SHALL BE SUBMITED TO THE DISTRICT FOR REVIEW.           116         MOTINE AND AN ARE BASED ON ARE BASED ON C	12		26.25	7.17	3.66	1.00	1.00	3.09	1.50	-					
	16       22.5' BEND       23.25       6.20       3.75       0.66       1.33       2.77       1.00         16       45' BEND       45.50       12.13       3.75       1.00       1.33       5.57       4.00         16       TEE & DEAD       59.50       15.87       3.75       1.92       1.33       6.98       6.50         TES:         THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST O.25 SQUARE FETER. REFERENCE AWWA M-23 AND M-41.         THE MINIMUM BEARING SURFACE AREA SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW.         THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLLIME OF CONCRETE SHALL PROVEMANCE.         ACOUNTER OF TO THE MEAREST O.25 CUBIC YARDS.         THE SOL SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUS SIDCK REQUIREMENTS.         THE APPROXIMATE VOLLIME OF CONCRETE SALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE TO THE WINIMUM BEARING SURFACE AREA AND THE MINIMUM BEARING SURFACE AREA AND APPROX	12		34.25	9.36	3.66	1.46	1.00	3.95	2.25						
END 04.20 5.00 1.00 1.00 5.55 2.25	16       45' BEND       45.50       12.13       3.75       1.00       1.33       5.57       4.00         16       TEE & DEAD END       59.50       15.87       3.75       1.92       1.33       6.98       6.50         TES:         • THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.         THE DESIGN ENGINEER IS RESPONSIBLE FOR VERFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGNS IN CLODING GEOTECHNICAL INFORMATION SHALL BE SUBMITED TO THE DISTRICT FOR REVIEW.         • THE MENNUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REDUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         • THE APPROXIMATE VOLUME OF CONCRETE REDUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         • THE APPROXIMATE VOLUME OF CONCRETE REDUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         • THE APPROXIMATE VOLUME OF CONCRETE REDUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         • THE APPROXIMATE VOLUME OF CONCRETE REDUIREMENTS, SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         • THE APPROXI	16	11.25" BEND	11.75	3.43	3.43	0.44	1.33	2.00	0.50						
	16TEE & DEAD END59.5015.873.751.921.336.986.50TES:THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWM M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITED TO THE DISTRICT FOR REVIEW.THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.THE APPROXIMATE VOLUME S FOR MARE BASED ON AT HE BASED ON THE WINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.THE APPROXIMATE WOLUME SCIENCE THAN IN BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5.5 FEET.A STE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES SARGET THAN 16 INCHES OR										-					
END         11.75         3.43         3.43         0.44         1.33         2.00         0.50	16TEE & DEAD END59.5015.873.751.921.336.986.50TES:THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1.500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWM M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITED TO THE DISTRICT FOR REVIEW.THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.THE APPROXIMATE VOLUME S FOR MARE BASED ON AT HE BASED ON THE WINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.THE APPROXIMATE WOLUME SCIENCE THAN IN BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5.5 FEET.A STE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES SARGET THAN 16 INCHES OR										-					
END         11.75         3.43         3.43         0.44         1.33         2.00         0.50	16TEE & DEAD END59.5015.873.751.921.336.986.50TES:THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWM M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBWITED TO THE DISTRICT FOR REVIEW.THE MINIMUM BERING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS. THE APPROXIMATE VOLUME SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM ONE THE BLOCK THE OWIND MARE BASED CON A PIPE BASED ON A PIPE SURFACE AREA AND THE DIFTH OF SERSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN FRAME THAN 16 INCHES OR MAX STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH. ALL CALCULATIONS SHALL BE PROVIDED TO THE DISTRICT FOR REVIEW.										-					
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ILI25' BEND         ILI75         3.43         3.43         0.44         1.33         2.00         0.50           22.5' BEND         23.25         6.20         3.75         0.66         1.33         2.77         1.00	16       END       59.50       15.67       3.75       1.92       1.33       6.98       6.50         THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.         THE DESIGN ENGINEER FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW.         THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.8 FOR THRUST BLOCK REQUIREMENTS.         THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.         THESE CHARTS MAY ONLY BE USE IF IF HE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5.5 FEET.         A STE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES										-					
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LENU111.25' BEND11.753.433.430.441.332.000.5022.5' BEND23.256.203.750.661.332.771.0045' BEND45.5012.133.751.001.335.574.00TEE & DEAD59.5015.B73.751.921.336.986.50NNMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETYR OF 1.5 AND AN ALLOWABLE SOLI BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FCOT. BEARING SURFACE AREA IS ROUNDED UP TO THE50.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.SIGN DENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23. PVC PIPE - DESIGN AND INSTALLATIONWWA M-41, DUCTLE-IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITED TO THE DISTRICTINMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE REAL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETETBLOCK, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS.INMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE REAL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETETBLOCK, SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS.INMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE REAL BASED ON A BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATEINMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE REAL BASED ON A PHEINMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF REASES AND A PHECHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (AY) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (H) FROM THE FINISHED GRADE<	SKG         Revised:         DECEMBER 2021         WODMEN HILLS         WATER & WASTEWATER SYSTEM         W-11         Drown: GGM/SKG           MARCH 2011         Revised:         METROPOLITAN DISTRICT         STANDARD SPECIFICATIONS         W-11         Date: MARCH 201	SKG		Revised: DECEMBER 2	2021		WM	DM	FN H	TILL WATE	R & WASTEWATER SYSTEM		Drawn: GGM,	/SKG		

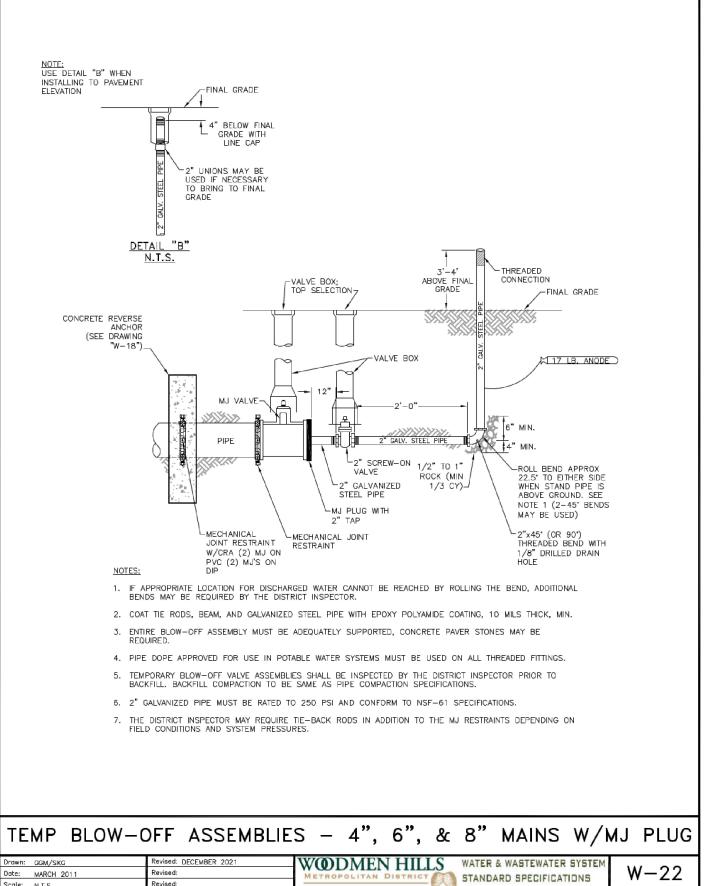


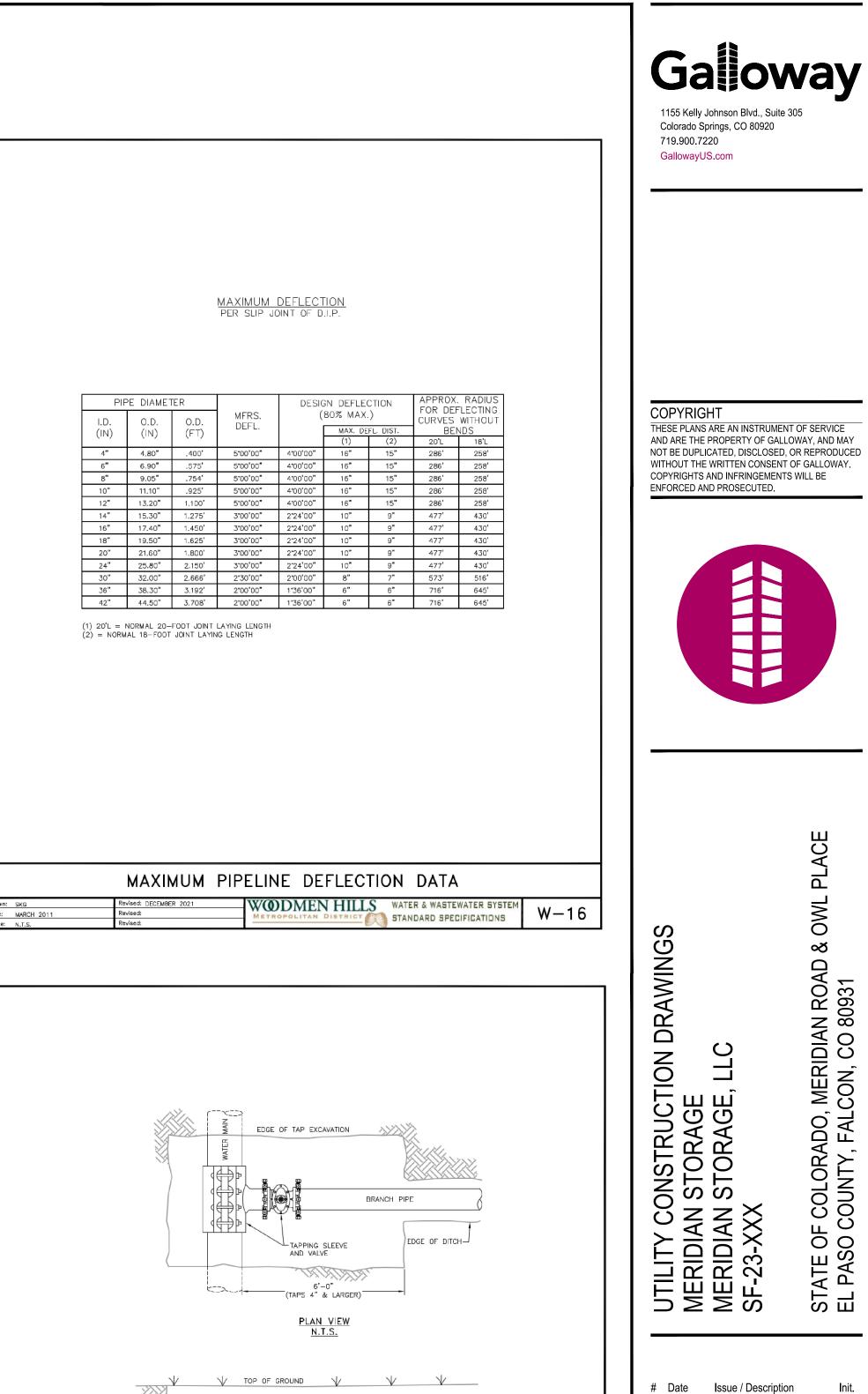
OCKS REQUIRE	D FOR TAPS	
METROPOLITAN DISTR	LLS WATER & WASTEWA	
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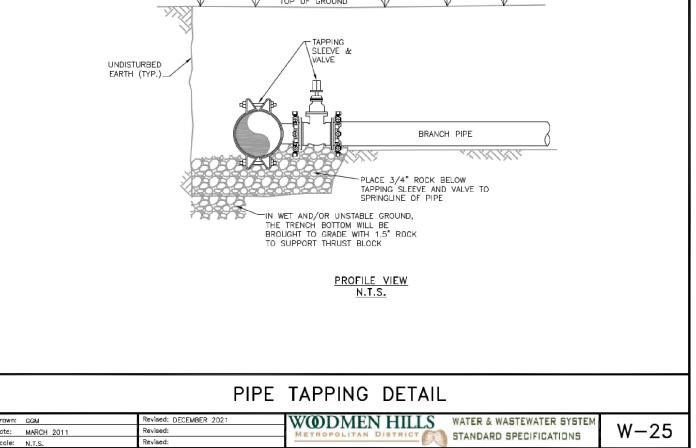


IOR	FOR	MECHANI	CAL	JOINT	RES	TRAINTS
	METROPOLIT	TAN DISTRICT		& WASTEWATER		W-18









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

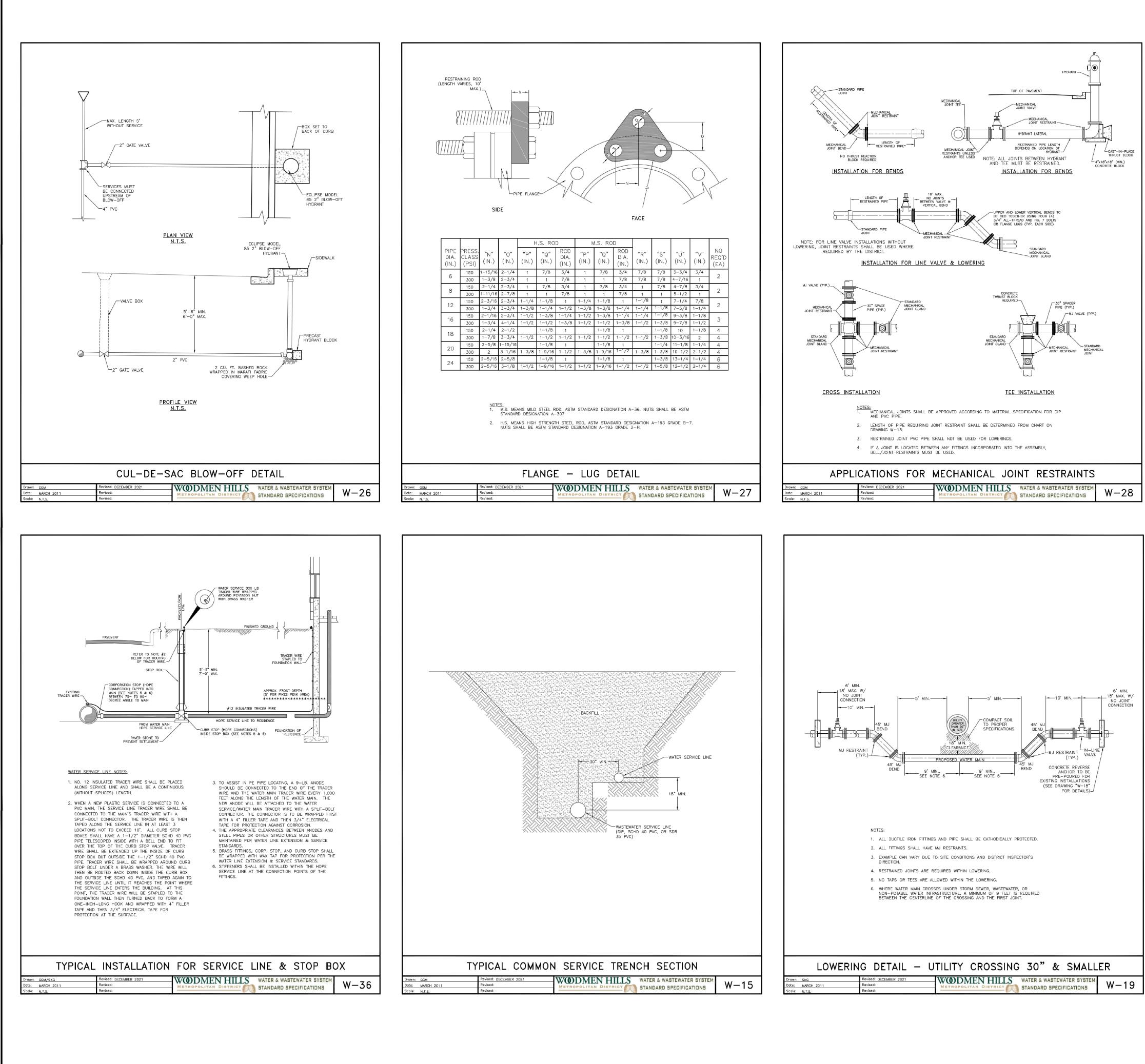
WATER DETAILS

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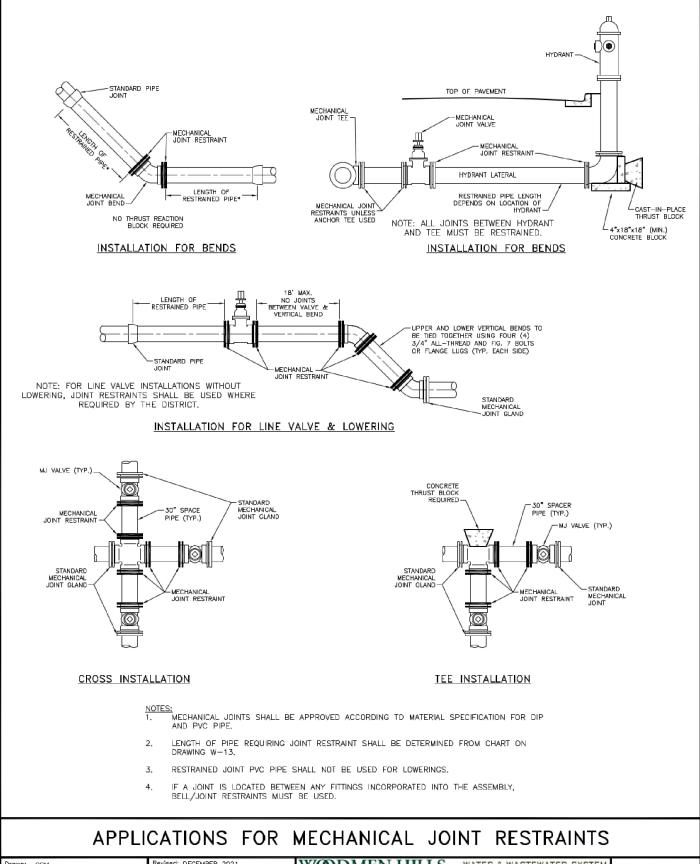
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J2.2 Sheet 6 of 8



NGE – LUG DETAIL	_	
IT GO DITTELL TITLELO	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-27



			L =	MINIMUM	RESTRAINE	D PIPE LEN	IGTH					
PIPE DIAMETER		45° BEND		2	2–1/2* BEI	٩D	11	-1/4* BEN	ID	INCLL	D VALVE OR JDE INLINE V (SEE NOTE 7	ALVES
MAX. STATIC PRESSURE (PSI)	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-20
6-INCH DUCTILE IRON AND PVC	6	9	12	3	5	6	2	3	3	49	73	97
8-INCH DUCTILE IRON AND PVC	8	12	16	4	6	8	2	3	4	63	94	125
12-INCH DUCTILE IRON AND PVC	12	17	23	6	8	11	3	4	6	89	133	177
16-INCH DUCTILE IRON AND PVC	15	22	29	7	11	14	4	5	7			
20-INCH DUCTILE IRON AND PVC	18	26	35	9	13	17	4	6	8	USE CONCRETE REVERSE ANCHOR	USE CONCRETE REVERSE ANCHOR	NCHO
24-INCH DUCTILE IRON AND PVC	20	30	40	10	15	20	5	7	10	SEA	SEAC	USE CONCRETE REVERSE ANCHOR
30-INCH DUCTILE IRON AND PVC	24	36	48	12	18	24	6	9	12	SE	EVER	
36-INCH DUCTILE IRON AND PVC	28	42	56	14	20	27	7	10	14	28	28	28
NOTES:			(ТҮР.)									
	SSURE GR	EATER THA	N 200 PSI	REQUIRES	5 SPECIAL	DESIGN AP	PROVED B	Y THE DIS	TRICT.			
2. LEN DEF	GTH IS BAS	SED ON M	INIMUM 5	FEET OF (	GROUND CO ENGTH MUS	VER AND	COMPACTE	SOIL. IF	THE			
	CK IS PRE	SENT.			TION WHER							
BEC	LE OR NO	FINES, TY	PE 4 BEDD	ING CONE	DED SANDS, DITIONS - DIAMETER	PIPE BEDD	ED IN SA	ND, GRAVEL	, OR			
4. CAL LITT	JSHED STU			PED IN P	OLYETHYLEN	IE MATERIA	L,					
4. CAL LITT CRU		BASED ON	DIP WRAP									
4. CAL LITT CRU 5. FIG 6. USE	JRES ARE CRA FOR	DOWN-TU	RNING BEN		USED AT							



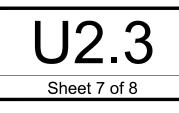
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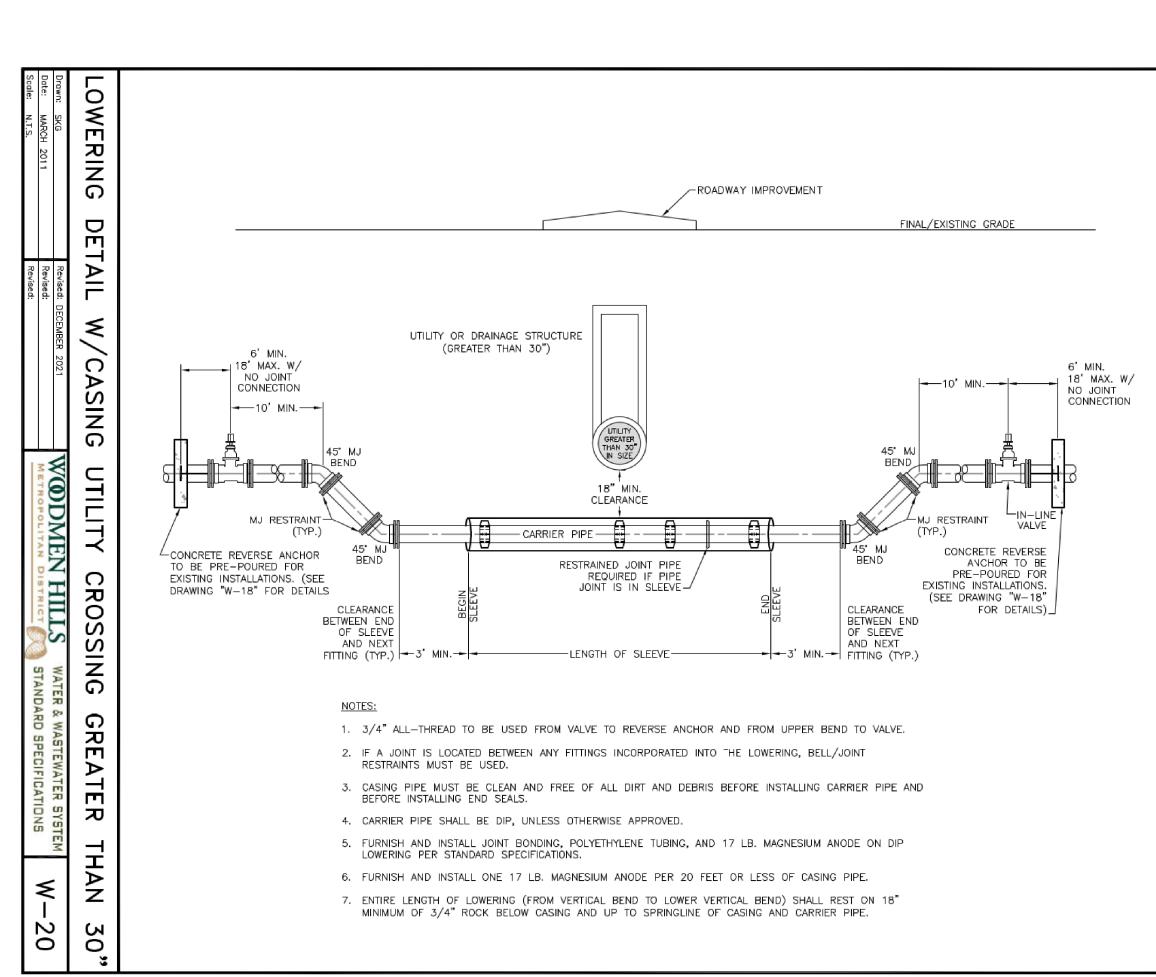


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# Date	Issue / Description	Init.
- - -		
- - -		

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

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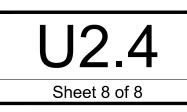
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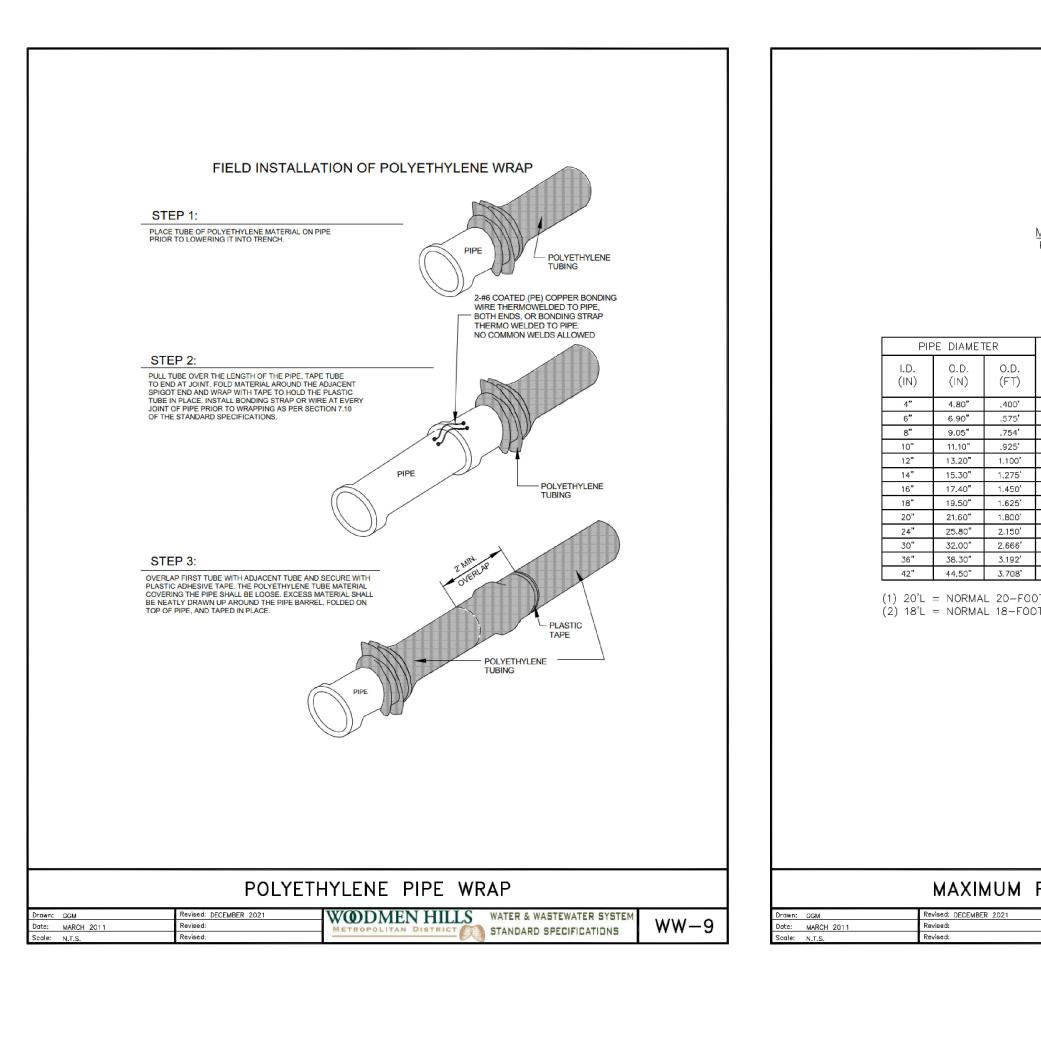
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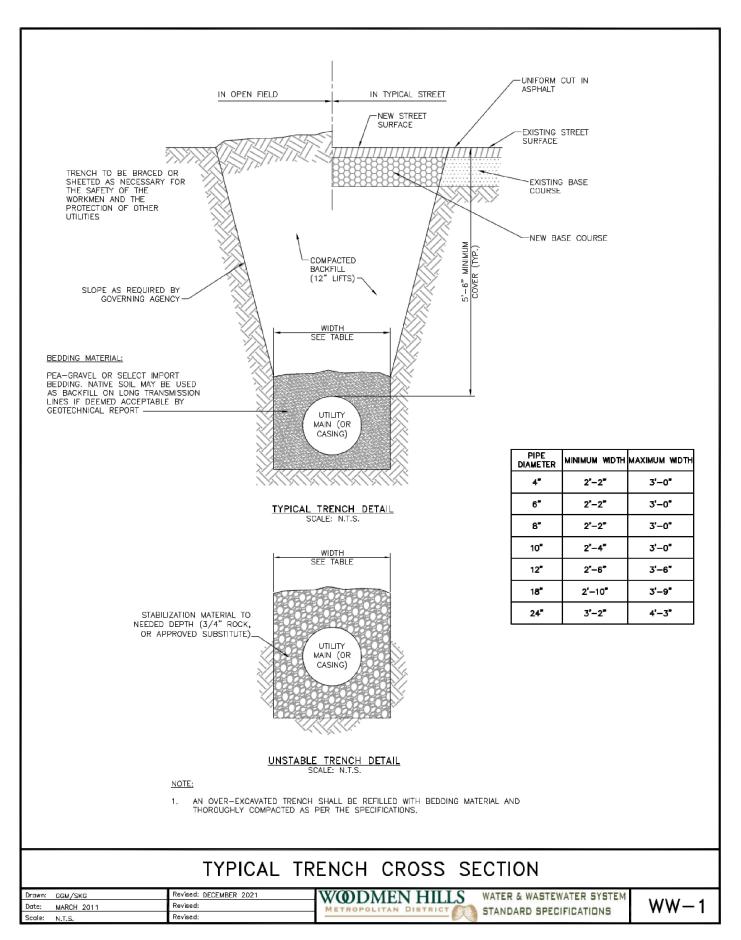
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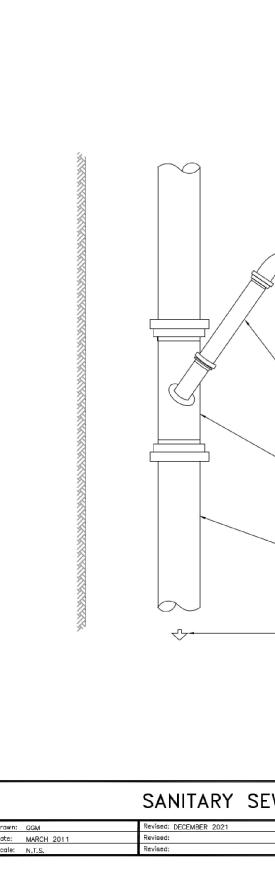
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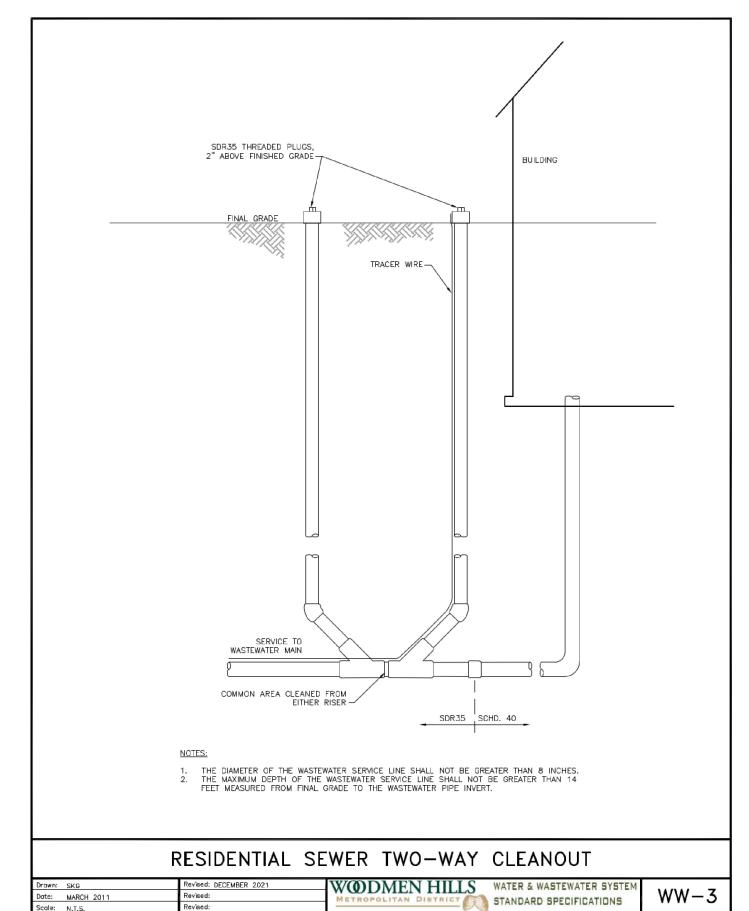


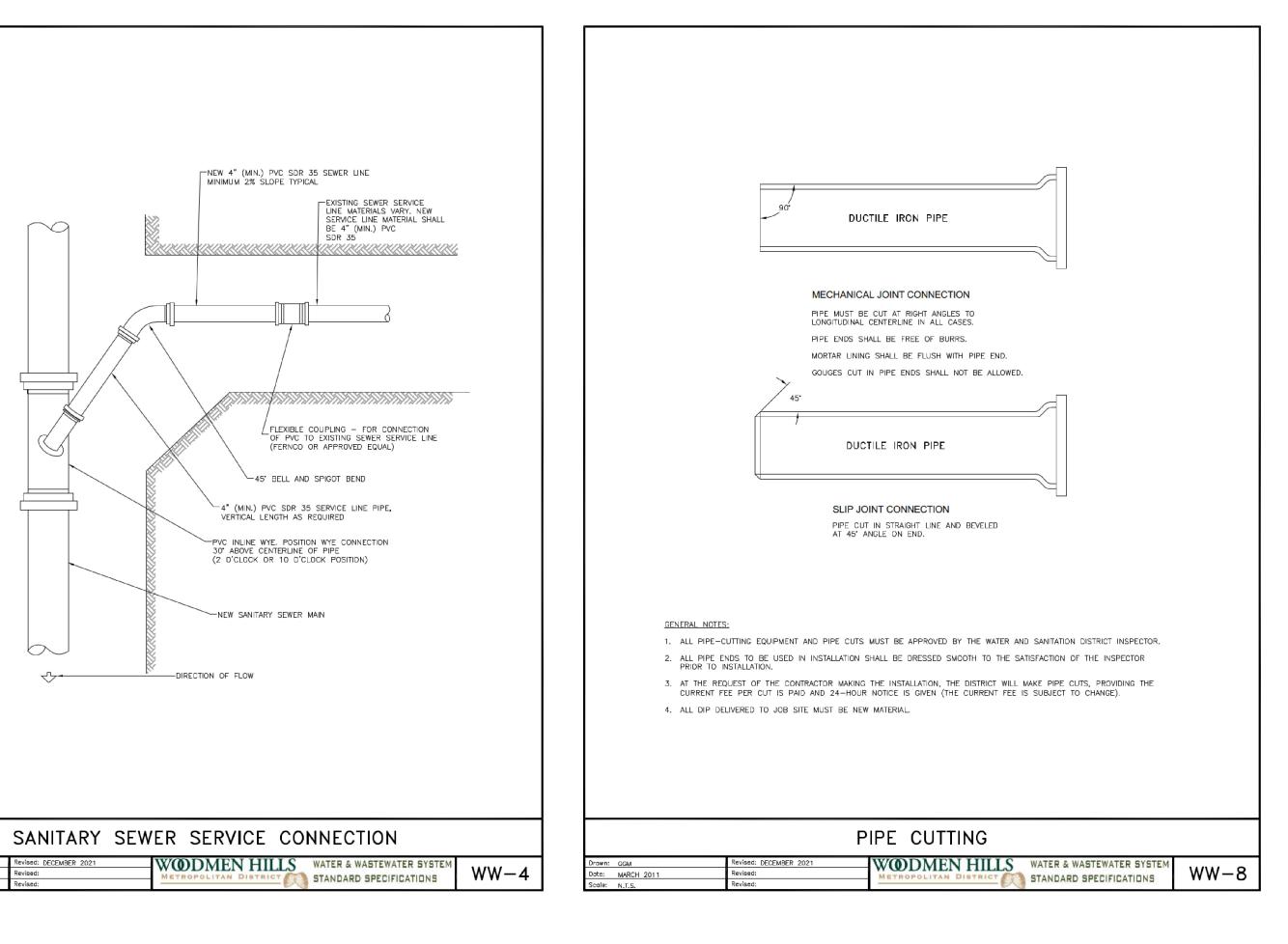






	MAXIMUM PER SLIP JO	DEFLECT	<u>10N</u> .I.P.				
_		1				<b>B</b> (B)(J)	
_	MFRS.		N DEFLEO BO% MAX.		FOR DEF		
	DEFL.		MAX. DE	FL. DIST.	BEN		
			(1)	(2)	20'L	18'L	
	5.00,00	4.00,00"	16"	15"	286'	258'	
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	5*00'00"	4.00,00"	16"	15"	286'	258'	
	3*00'00"	2'24'00"	10"	9"	477'	430'	
	3*00'00"	2"24'00"	10"	9"	477'	430'	
	3*00'00*	2*24'00"	10"	9*	477'	430'	
	3*00'00"	2*24'00"	10"	9"	477'	430'	
	3*00'00"	2*24'00"	10"	9"	477'	430'	
	2*30'00"	2'00'00"	8"	7"	573'	516'	
	2*00'00"	1*36'00"	6"	6"	716'	645'	
	2*00'00"	1*36'00"	6"	6"	716'	645'	
00	T JOINT LAY	ING LENG	Ή				
		OPOLITAN	DISTRICT	-		WATER SYSTE	WW-11

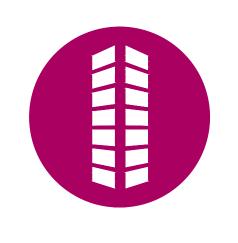




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