# Appendix C – Example Sheets

Main Extensions:

- Cover Sheet
- General Notes Sheet
- Water Only Plan 1
- Water Only Plan 2
- Utility Plan 1
- Utility Plan 2
- Detail Sheet
- Inside Meter Setting

Licenses and Easements:

- GENERAL INSTRUCTIONS 4-06
- DW STANDARDS 4-06A Page 1
- DW STANDARDS 4-06A Page 2
- BORDER/TITLE BLOCK 4-06B
- BORDER/TITLE BLOCK 4-06B Blank
- PERIMETER DESCRIPTION 4-06C
- CROSSING OVERHEAD 4-06D
- CROSSING UNDERGROUND 4-06E
- UNDERGROUND DITCH/CANAL CROSSING 4-06F
- CENTERLINE DESCRIPTION 4-06G
- SIMPLIFIED AREA 4-06H
- FIRE HYDRANT EASEMENT 4-06I
- DISTRIBUTOR PERIMETER DESCRIPTION 4-06J
- DISTRIBUTOR BORDER/TITLE BLOCK 4-06K Blank
- Exhibit A Example
- Closure Calculations Example

Capital Projects:

- Cover
- Survey Control
- Plan & Profile
- Plan, Profile & Sections
- Architectural & Structural Dimensioning
- Mechanical Dimensioning
- Reference Only

Capital Projects Electrical:

- Instrument Control
- Process & Instrumentation Diagram
- Power & Grounding
- Lighting & Control
- Cathodic Protection
- Conduit & Conductor Schedule
- One-Line Diagram Plan View

# Main Extensions Example Sheets

The following is an example of required information needed for main extension submittals. These examples shall be used in conjunction with the <u>Engineering Standards</u> and the <u>CAD Standards External</u> <u>Requirements</u> (CAD Standards).

The examples illustrate common submittal types and are for graphic representation only. Graphic examples are not given for every submittal type; further clarification can be requested by contacting Denver Water's Sales Administration section. Denver Water has authority over water facilities only; the remainder of the plan presentation is at the discretion of the submitting engineering firm.

- Callouts in **BLUE** indicate which layer can be used
- Callouts in MAGENTA are directions for reference purposes each magenta reference is hyperlinked for PDF use

ATTENTION Denver Water will not provide main extension example drawings in DWG format.

# Index of Sheets

- Cover Sheet
- General Notes Sheet
- Water Only Plan 1
- Water Only Plan 2
- Utility Plan 1
- Utility Plan 2
- Detail Sheet
- Inside Meter Setting



REVISION DATE: OC	TOBER 17, 2018	CROSS-CO
GENERAL CONSTRU	CTION AND WATER NOTES: IED IN DISTRIBUTOR CONTRACT AREAS SHALL REQUIRE THE DISTRICT TO CONTACT DENVER WATER	THE LICENS
PRIOR TO THE P 2. ALL MATERIALS	AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DENVER WATER'S ENGINEERING STANDARDS,	CHAPTER 5. REQUIRED 1
MATERIALS SPE APPROVED AND	CIFICATIONS, AND DRAWINGS. ALL MAIN INSTALLATIONS/SYSTEM MODIFICATIONS WILL BE INSPECTED BY DENVER WATER. FIELD CHANGE DIRECTIVES MADE BY DISTRIBUTION INSPECTION	1. COMME
SHALL BE MADE	WITHIN 24 HOURS BY THE CONTRACTOR.	2. MULTI-
CONSTRUCTION.	SEE THE CHART BELOW FOR A QUICK REFERENCE TO THE FREQUENTLY USED MATERIAL	4. IRRIGA
SPECIFICATIONS		5. SINGLE
MATERIAL SPECIFI	CATION DESCRIPTION	AGREEI 6 RECYCL
MS 01 MS 02	DUCTILE IRON PIPE	a. BA
MS 03	DUCTILE IRON WATERWORKS FITTINGS	"Ri
MS 5 MS 6	RESILIENT SEATED GATE VALVES RUBBER SEATED BUTTERFLY VALVES	A VARI
MS 8	TAPPING VALVES - MECHANICAL JOINT TYPE FABRICATED CARRON STEEL AND STAINLESS STEEL TAPPING SLEEVES	A. BACKFL
MS 12	CAST IRON VALVE BOXES	FO
MS 13 MS 14	DRY– BARREL FIRE HYDRANTS POLYETHYLENE ENCASEMENT MATERIAL	B. THE LI
MS 23	BRASS AND BRONZE GOODS	NE
MS 29	MECHANICAL JOINT RESTRAINT	
MS 30 MS 36	BOLTED SLEEVE-TYPE COUPLINGS FLANGED JOINT ACCESSORIES	AS
4. AWG 12 SOLID (	COPPER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC WATER MAINS.	CR
5. THE DEPTH OF C BE A MINIMUM C CROSSING INTEL OF COVER WILL 10 FEFT WITH D	OVER OVER THE PIPE, MEASURED FROM OFFICIAL STREET GRADE TO THE TOP OF THE PIPE, SHALL is 4-1/2 FEET AND SHALL BE KNOWN AS THE COVER OVER THE PIPE. IF DIFFICULTIES ARISE WHEN RFERNCE, AND WHERE SPECIFICALLY APPROVED BY DENVER WATER, DEVIATIONS FROM 4-1/2 FEET BE PERMITTED. THE COVER OVER THE PIPE SHALL BE A MINIMUM OF 4-1/2 FEET AND A MAXIMUM OF INVER WATER APPROVAL.	FAX: 30: E-1
6. ANY CHANGES IN BY THE INSTAL	ALIGNMENT AND GRADE SHALL BE AUTHORIZED BY DENVER WATER AND SHALL BE ACCOMPLISHED ATION OF ADDITIONAL FITTINGS. THE DEFLECTION OF JOINTS IS PERMITTED ONLY WHEN	D. THERE PR
INSTALLING PIP	ON HORIZONTAL OR VERTICAL CURVES.	E. NO BRA
7. PRIOR TO THE II SUB-GRADE STA STREET GRADE.	ISTALLATION OF WATER MAINS, ROAD CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE TE. SUB-GRADE IS DEFINED AS AN ELEVATION OF NO MORE THAN 7 INCHES BELOW THE FINISHED	PO
8. THE CONTRACTO	IN SHALL ADJUST ALL VALVE BOXES AND FIRE HYDRANTS TO THE FINAL FINISHED GRADE.	DEN REQUI
<ol> <li>BENDS, TEES, FI WITH MECHANIC</li> </ol>	KE DIDKANIS, BLUW-OFFS, AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST AL RESTRAINT AND CONCRETE KICK BLOCKS IN ACCORDANCE WITH DENVER WATER'S ENGINEERING	CONST
STANDARDS.		2. WAX TA
IU. VALVES SHALL E VALVE SHALL BE	E LOCATED ON PROPERTY LINE EXTENSIONS, EXCEPT FOR TAPPING TEES WHERE AN ADDITIONAL PLACED ON THE TAPPING TEE. OTHER VALVE LOCATIONS MAY BE REQUIRED AS SHOWN ON THE	3. AN AMI
PLANS.	NCS SHALL MAINTAIN A MINIMUM OF FARANCE OF 18-THORES FROM THE OUTSIDE OF THE BROSS	4. CONTAG
12. ONLY ONE POI	IT OF CONNECTION IS ALLOWED UNTIL THE TESTING OF THE NEW MAIN INSTALLATIONS IS	DEN AI
COMPLETE.	IN WATER MAINS AND STRE CERVICE THES SHALL BE UNPROSTATION IN TRATER IN ACCOUNTS	a. MI
13. NEWLY INSTALLE WITH DENVER W	U WATER MAINS AND FIRE SERVICE LINES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE ATER ENGINEERING STANDARDS, SECTION 8.25.	b. DE
14. THE TRENCH SH	ALL BE EXCAVATED AND THE PIPE EXPOSED FOR INSPECTION AT ANY LOCATION ON THE PROJECT,	c. MI
15. THE STERILIZAT	ION AND FLUSHING OF MAINS SHALL BE INSPECTED AND CERTIFIED BY THE HEALTH DEPARTMENT	d. DE
HAVING JURISD CERTIFICATION REPRESENTATIVE FORTH BY THAT	ICTION; ONE COPY OF THE CERTIFICATION SHALL BE PROVIDED TO DENVER WATER. THE SHALL NOTE THE LOCATION OF THE MAIN AND STATE THE MAIN HAS BEEN INSPECTED BY A E OF THE HEALTH DEPARTMENT HAVING JURISDICTION AND COMPLIES WITH THE PROCEDURES SET DEPARTMENT.	DEN CA a. MI b. DE
16. THE CONTRACTO	IR IS RESPONSIBLE FOR:	
A. NOTIFYING CUS CONSTRUCT	TOMERS VERBALLY OR IN WRITING WHO MAY BE AFFECTED BY A WATER OUTAGE DURING ION.	
B. OBTAINING, AT	THE CONTRACTOR'S EXPENSE, APPLICABLE LICENSES, PERMITS, BONDS, ETC., THAT ARE REQUIRED	
FOR THE MA	IN INSTALLATION/SYSTEM MODIFICATION.	
AND INSPEC	CTION, AT 303-628-6671, AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.	
D. IN THE EVENT O WATER'S W CONTACT TH	F AN EMERGENCY IN DENVER OR IN A TOTAL SERVICE AREA AFTER WORKING HOURS, CALL DENVER ESTSIDE DISPATCHER: 303-628-6801. IN A MASTER METER OR READ & BILL DISTRICT, PLEASE HE REPRESENTATIVE OF THE DISTRICT IN WHICH THE PROJECT IS TAKING PLACE.	
E. PAYING ALL ADD NOTE: BE ADVISE BECOME NECESS NOTIFICATIONS WHEN VALVE MA	I I IUNAL CHARGES FOR INSPECTION OUTSIDE NORMAL WORK HOURS. D THAT ON OCCASION VALVES IN OUR SYSTEM MAY BE INOPERABLE. ON SUCH OCCASIONS, IT MAY MARY TO BACK UP AN ADDITIONAL BLOCK FOR THE SHUT OUT. IF THAT OCCURS, MAKE ADDITIONAL VERBALLY OR IN WRITING TO CUSTOMERS WITH THE MANDATORY 24 HOURS ADVANCE NOTICE. INTENANCE IS REQUIRED, A DELAY OF SEVERAL DAYS SHOULD BE EXPECTED.	
TAP AND METER NO DISTRICTS PLEASE	TES (FOR DENVER, TOTAL SERVICE, AND READ AND BILL AREAS ONLY. IN MASTER METER REFER TO THE SPECIFICATION FOR THAT DISTRICT).	
1. BEFORE ANY TAP THE DISTRIBUTO	IS ARE MADE ON MAINS, TAP APPLICATIONS AND PAYMENT MUST BE RECEIVED AND APPROVED BY IR AND DENVER WATER, AND THE WATER MAIN HAS PASSED WATER QUALITY TESTING,	
2. DENVER WATER 3. INDIVIDUAL SER 4. SERVICES AND N	WILL MARE ALL IAPS ITAI ARE 2 INCHES AND SMALLER. VICE LINE PRVS SHALL BE INSTALLED BY THE LICENSEE WHEN AREA PRESSURE EXCEEDS 80 PSI. IETERS:	REFERENCE: ENGINE 16TH EDI
A. THE CONTRACTO ALL TAPS, S ONE TAP A 303-628-61	IR MAY REQUEST AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE METER INSPECTOR FOR REVICE LINES, AND METERS LARGER THAN ONE-INCH, AND FOR PROJECTS INVOLVING MORE THAN ND SERVICE. TO SCHEDULE A PRE_CONSTRUCTION CONFERENCE, CALL METER INSPECTION AT 45.	RETAIN SPACE FO
B. A COPY OF THE TIME THE TA	APPROVED PLANS WITH DENVER WATER'S APPROVAL STICKER MUST BE PRESENT ON-SITE AT THE AP IS MADE AND THE METER IS INSPECTED OR INSTALLED.	
C. PRIOR TO THE INSTALLED. FIRST POUR	TAP BEING MADE, THE SERVICE ADDRESS SHALL BE POSTED, AND THE CURB VALVE SHALL BE UPON TAP INSTALLATION, THE CONTRACTOR MAY REQUEST THE METER INSPECTION AFTER THE OF CONCRETE FOUNDATION HAS OCCURRED. THE SERVICE ADDRESS SHALL REMAIN POSTED UNTIL SETTING DASES INSPECTION	
D. METERS CANNO PREVENTION 303-628-59	T BE SET, INSPECTED, OR SERVICES ACTIVATED, UNTIL THE REQUIREMENTS FOR BACKFLOW I HAVE BEEN COMPLETED. CONTACT THE BACKFLOW PREVENTION PROGRAM PERSONNEL AT 59 FOR FURTHER INFORMATION.	
E. METER PITS AND DEPTH FOR INSPECTION IS ESTABLIS PIT	VAULTS MUST BE SET FLUSH WITH THE FINAL GRADE OF THE LANDSCAPE, INCLUDING THE PROPER SOIL AMENDMENT. IF FINAL GRADING HAS NOT BEEN COMPLETED AT THE TIME OF METER , THE OWNER WILL BE REQUIRED TO RAISE OR LOWER THE METER PIT/VAULT WHEN FINAL GRADE SHED. ADJUSTMENT OF THE PIT MAY REQUIRE ADJUSTMENT OF THE METER SETTING WITHIN THE	
F. METER SETTING PRESENT, O EFFFCT AT 1	, VALVES, AND SERVICE LINES FROM THE MAIN TO THE BACKFLOW PREVENTER ASSEMBLY, IF TO 5 FEET AFTER THE METER VAULT, MUST MEET ALL APPLICABLE ENGINEERING STANDARDS IN HE TIME OF ACTIVATION. MODIFICATIONS MAY BE REOUIRED FROM THE DFTAILS ON THESE PLANS	
G. NO PRESENT OR AND THE M	WITH THE CURRENT ENGINEERING STANDARDS. FUTURE FENCES OR WALLS ARE PERMITTED BETWEEN THE RIGHT-OF-WAY (ROW) OR EASEMENT ETER SETTING. THERE SHALL BE NO PERMANENT OBSTRUCTIONS WITHIN 5 FEET OF THE OUTSIDE	
WALL OF TH H. INSIDE THE CIT	E METER PIT OR VAULT. ( OF DENVER, ALL MULTI-FAMILY DWELLINGS WITH A SINGLE TAP, SERVICE LINE, AND METER ARE	
REQUIRED INTERNATIO DENVER PLU	TO SUB-METER EACH INDIVIDUAL UNIT (SEC 401.3.2 OF DENVER MODIFICATIONS TO THE NAL PLUMBING CODE, ORDINANCE NUMBER 576, SERIES OF 2004). CALL THE CITY AND COUNTY OF IMBING INSPECTOR FOR INFORMATION AT 720-865-2625.	

I. INSIDE THE CITY OF DENVER, ALL SERVICE LINES MUST BE INSTALLED TO AVOID EXISTING OR PROPOSED STREET TREES. CONTACT THE CITY AND COUNTY OF DENVER'S FORESTER AT 720-913-0647 FOR INFORMATION.





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ARE NOT REFLECTIVE OF ACTUAL FIELD CONDITIONS:



 ADD 1,542,010.46 FEET TO PROJECT ARE ARDITRATE. TO CONVERT TO NADD3.
 ADD 1,542,010.46 FEET TO PROJECT NORTHING TO GET NADD3 SPC (0502 CO C)
 ADD 3,076,078.11 FEET TO PROJECT EASTING TO GET NADD3 SPC (00502 CO C)
 ROTATE PROJECT BEARINGS 00 DEGREES 00 MINUTES 33 SECONDS COUNTERCLOCKWISE ABOUT PROJECT SITE BENCHMARK/PROPERTY PIN & CAP ON NORTHEASTERLY PROPERTY LINE FOR GRID BEARINGS.



 

 REFERENCE:
 ENGINEERING STANDARD
 STANDARD DETAILS INCORPORATED BY REFERENCE WITHIN THESE DRAWINGS SHALL CONSIST OF THE FOLLOWING STANDARD DETAILS INDICATED AND ALL SUBSEQUENT DETAILS WHICH MAY BE REFERENCE THEREIN.

 31002
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004

 31002
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004

 31004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004

 31005
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004

 31004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004

 31004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004
 TYPICAL TRENCH SECTION FOR PIPE 24" Ø AND SMALLER S1004

 31004
 TYPICAL TRENCH SECTION FOR PIPE
 S1005
 S1004
 CONTROL FOR SUBJECT SUBJECT SUBJECT SUBJECT SISTANDARD S16TH EDITION, APPENDIX B

 3104
 LENGTH OF RESTRAINED PIPE
 S1004
 S1044
 LENGTH OF RESTRAINED PIPE

 31061
 STANDARD DESIGN FOR 2" BLOWOFF IN MANHOLE
 S10261
 S1020
 GUTSIDE SETTING FOR 1 1/2" & 2" METER WITH CHECK VALVE & BYPASS IN MANHOLE

 31020
 FIELD

DISCLAIMER: THESE PLANS ARE FOR EXAMPLE ONLY AND ARE NOT REFLECTIVE OF ACTUAL FIELD CONDITIONS.





# Licenses and Easements Example Sheets

The following is a list of the example sheets for Easements and Licenses submittals, including how to use each sheet; sheet notes are not always specific to the given example and may be used throughout.

### • **GENERAL INSTRUCTIONS 4-06**

• Provides general instructions as to drawing setup and appearance

# • DW STANDARDS 4-06A Page 1

- Lists acceptable layers, colors, text styles, line weights, and linetypes for Easements and Licenses submittals, use only the supplied information
- Line weights are based on Denver Water's plot file (DW Engineering-PMGT.ctb) and are set to default within the example drawings

#### • DW STANDARDS 4-06A Page 2

- o Callouts in **BLUE** indicate which layer is used
- o Callouts in MAGENTA are directions for reference purposes
- BORDER/TITLE BLOCK 4-06B
  - See GENERAL INSTRUCTIONS 4-06, note 6 for North Arrow specifications
  - Callouts in **BLUE** indicate which layer is used
  - Callouts in MAGENTA are directions for reference purposes
  - The North Arrow is provided as a dynamic block; symbol name: NorthArrow
  - o \*Legend has been provided as a dynamic block; symbol name: Legend

# • BORDER/TITLE BLOCK 4-06B Blank

- See GENERAL INSTRUCTIONS 4-06, note 6 for North Arrow specifications
- Callouts in **BLUE** indicate which layer is used
- o Callouts in MAGENTA are directions for reference purposes
- The North Arrow is provided as a dynamic block; symbol name: NorthArrow
- o \*Legend has been provided as a dynamic block; symbol name: Legend

#### • PERIMETER DESCRIPTION 4-06C

- \*In some cases, linetype scales can be forced to show properly
- Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- Street names can use either layer C-ANNO-L140-ITAL or C-ANNO-L120-ITAL, with corresponding text styles, depending on street width and scale of drawing
- Shadow fonts can use either layer C-ANNO-L120-SHAD or C-ANNO-L175-SHAD, with corresponding text styles, depending on scale of drawing

# • CROSSING OVERHEAD 4-06D

- \*In some cases, linetype scales can be forced to show properly
- Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- Round stationing to the nearest 5 feet (i.e., 1232+75)
- o Bar scale not required on sheets with profiles, when scale is clearly labeled

# • CROSSING UNDERGROUND 4-06E

- Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- UNDERGROUND DITCH/CANAL CROSSING 4-06F

- \*In some cases, linetype scales can be forced to show properly
- Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- <u>CENTERLINE DESCRIPTION 4-06G</u>
  - \*LEGEND AREA LICENSE GRANTED is shown as a user-defined example on this sheet
  - Callouts in **BLUE** indicate which layer is used
  - Callouts in MAGENTA are directions for reference purposes

#### • SIMPLIFIED AREA 4-06H

- o Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- This sheet shall only be used when requesting a License for an irregular area for a use such as grading, riprap, or a lawn irrigation system; the perimeter shall be simplified to avoid using multiple small courses

#### • FIRE HYDRANT EASEMENT 4-06I

- Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- The fire hydrant is provided as a dynamic block; symbol name: DW\_Fire Hydrant
- This sheet is for informational purposes only

#### DISTRIBUTOR PERIMETER DESCRIPTION 4-06J

- \*In some cases, linetype scales can be forced to show properly
- Callouts in **BLUE** indicate which layer is used
- Callouts in MAGENTA are directions for reference purposes
- Street names can use either layer C-ANNO-L140-ITAL or C-ANNO-L120-ITAL, with corresponding text styles, depending on street width and scale of drawing
- Shadow fonts can use either layer C-ANNO-L120-SHAD or C-ANNO-L175-SHAD, with corresponding text styles, depending on scale of drawing
- **DISTRIBUTOR BORDER/TITLE BLOCK 4-06K** (not shown)
  - See <u>BORDER/TITLE BLOCK 4-06B</u> for specifications
- DISTRIBUTOR BORDER/TITLE BLOCK 4-06K Blank
  - See <u>BORDER/TITLE BLOCK 4-06B</u> for specifications

# GENERAL INSTRUCTIONS 4-06

# INSTRUCTIONS FOR THE PREPARATION OF DENVER WATER EXHIBIT DRAWINGS

- The purpose of the drawing is to clearly show the easement area or the location of the item to be licensed and the area immediately surrounding it.
- You must start your drawing using one of our standards drawings which contain all of the proper layers, linetypes and settings required. Then bring your line work and information into it.
- Submitted CAD drawing files must not contain any X-referencing.

Use the provided layers only do not change layer names or layer colors.

- The LINETYPE scale and DRAWING scale must be the some.
- All text sizes are based on the Simplex text style L100 being 0.10 of an inch high. Except for the Shadow Font. No substitutions for the Simplex template are allowed. The shadow font Shadow.shx is included with this standards package.
- 6) The North direction and arrow must be in the range from 90° to the left to 45° to the right. Having "North" at the top of the page is preferred. The 8 1/2" side of the drawing is always the bottom of the page.
- 7) The tie should be to a monumented corner of the quarter section in which the easement parcel or licensed item lies. A direct tie is preferred but a tie with a maximum of two courses will be accepted.
- All designations for quarter section lines and land corners must be for the quarter section in which they lie. Place them within that quarter section.

- Basis of Bearings: Note that the bearing basis has three parts.
  - Numeric value: degrees, minutes, seconds (i.e. S89°59'18"W)
  - Monumentation: The monuments used for the bearing basis must be shown on the parcel map or described in the Basis of Bearing note.
  - Source of Basis: Denver Metro Area, State Plane Central Zone: Outside the Metro Area, Subdivision Plat, or existing Denver Water Maps.
  - Deriver Water requires two monumented corners for the Basis of Bearings.
- 10) A 0.10" tic mark must be used to delineate the end points of curves and angle points if its location is not obvious. Rotate tic marks to be radial to the curve or to bi-sect the angle and place them on the C-ANNO-LO60 layer.
- "Easement Hatching Lines". Hatch lines must be spaced 0.06" apart. (The Hatch Scale equals 0.48 times the drawing scale). The hatch angle must be 45" or 135" to match the Legend. Use the C-PATT layer for all hatch patterns.
- 12) Show the easement or property area in square feet and "round" it to the nearest foot if the area is less than one half acre. Show the easement or property area in acres and to three decimal places if the area is one half acre or more. i.e., 21,884 SQ FT or 0.503 acres.
- The initials of the person who prepared the drawing should be entered in the area marked "DRN". All other fields will be completed by Denver Water.

- A separate paper space layout tab must be created for each page of a drawing.
- 15) General Information:
  - All Z coordinates must be Zero.
  - Files must not be Zipped if they will fit on a CD.
  - The use of course tables should be avoided.
  - Label the quarter/quarter for each one shown on the parcel map.
  - Include a Bar Scale that matches the DW standard of 0.10" by 3.00".
  - Drawing Accuracy: All lines and curves must be drawn accurately to two decimal places for distance.
  - When multiple easement parcels exist they must be separated by the type of easement document being used and grouped by owners.
- 16) SIMPUFIED AREA 4-06H should only be used when requesting a license for an irregular area for a use such as grading, riprap, or a lawn irrigation system. The perimeter should be simplified to avoid using multiple small courses.
- Before submitting CAD files remove all drawings and tabs that are not necessary.

Note: If you have any questions while you are preparing your drawing regarding our standards please feel free to email and we will be glad to assist you.

	,		
LEGEND	DOCUMENT DATED: SEC'Y FILE DOC.	FACILITY	DENVER WATER
EASEMENT ACQUIRED	RIMS ITEM NO.	TYPE	1600 West 12th Ave Derver, Colorado 80204-3412
BNDRY EXISTING DW ESMT	CARD NO.	EASEMENT/LICENSE/PERMIT	T: 303.628.6000 F: 303.628.6851
BNDRY FYISTING DW BROR	DRN. PM. S.	COMPANY (OWNER	deriver watter leng
DNDRT EXISTING DW PROP	APPD.	COMPANY/OWNER	SCALE: 1" = 100'
	SHEET 1 OF 1 SHEET	DATE: DECEMBER 20, 2016	CAD XXXXX-X_PMGT

DWD. PROPERTY HANNED OF STANDARDS 12200016 CAD STANDARDS EXTERNAL REQUIREMENTS – APPENDIX C EFFECTIVE JANUARY 2023

# DW STANDARDS 4-06A Page 1

USE ONLY SUPPLIED LAYERS, COLORS, TEXT STYLES, LINE WEIGHTS, and LINETYPES SPECIFIED ON THIS SHEET

LAYER	LAYER	TEXT	EVANDLE	LINE
NAME	COLOR	STYLE	EXAMPLE	WEIGHT
C-ANNO-L050	211	L50	STANSARDS 0.3232012	0.005 IN
C-ANNO-L060	212	L60	Lot 1	0.007 IN
C-ANNO-L060-ITAL	212	L60 Italic	N Line NW 1/4 Sec 36	0.007 IN
C-ANNO-L080	223	L80	N89'22'45"W	0.010 IN
C-ANNO-LUSO	223	L80	BASIS OF BLARING:	0.010 IN
C-ANNO-L100	85	L100	SCALE 1 - 100	1' 0.074 IN
	85	1120 Italia	ANY STREET	0.020 IN
C-ANNO-L120-SHAD	211	1120 Shadow	POLLOGK DAKE	0.007 IN
C-ANNO-L140	245	1140	NF1/4 NF1/4	0.028 IN
C-ANNO-L140-ITAL	245	L140 Itolic	ANY STREET	0.028 IN
C-ANNO-L175	126	1175	4-06A	0.039 IN
C-ANNO-L175-SHAD	211	1175 Shadow	SALLEY HELPH	TR 0.007 IN
G-ANNO-LOGO	211	N/A	DVIZEN URIQU	0.005 IN
O ANNO LOGO	211	N/A	LINETYPE	0.000 IN
C-ANNO-TUR	7		LINETTPE	0.039 IN
C-CHAN-CNTR	212			0.007 IN
C-DTCH-CNTR	212			0.007 IN
C-ESMT-ACQU	156			0.028 IN
C-ESMT-CONV	26			0.028 IN
C-ESMT-DIST	165		·······	0.020 IN
C-ESMT-DW	7		• •	0.039 IN
C-ESMT-OTHR	212			0.007 IN
C-FENC	212	x	x	0.007 IN
C-GREN-PROF	223			0.010 IN
	26	()		0.028 IN
C-LICN-CONV	7	-		0.039 IN
C-LICN-CONV-AREA	26			0.028 IN
C-NPLT	212			0.007 IN
C-PATT	212			0.007 IN
C-POND	164	2000		0.014 IN
C-PROP-ACQU	156	-		0.028 IN
C-PROP-CONV	26			0.028 IN
C-PROP-DW	212			0.003 IN
	212			0.007 IN
C-ROAD-CNTR	212	<u> 1</u>		0.007 IN
C-ROAD-CURB	212			0.007 IN
C-ROAD-RWAY	85	-		0.020 IN
C-SECT-LINE-16TH	212	<u> 10</u>		0.007 IN
C-SECT-UNE-64TH	212	1000 000 000 000 000 000 000 000 000 00	<u></u>	0.007 IN
C-SECI-UNE-FULL	212	1. Contract (1. Co		0.007 IN
C-SECI-UNE-QIRS	212	(i - 33		0.007 IN
CU-COND-CNTR	211			0.007 IN
CU-WATR-CNTR	212	19		0.007 IN
V-CTRL	85			0.020 IN
VF-MONM	212	3		0.007 IN
LEGEND	DOCUMENT DATED:	_	FACILITY	DENVER WATER
EASEMENT ACQUIRED	RIMS ITEM NO.		TYPE	1000 West 12th Ave
BNDRY EXISTING DW ESMT	CARD NO.	FASE	MENT/LICENSE/PERMIT	T 303.626.6000 F 303.626.4851
BNDRY EXISTING DW PROP	DRN. PM.	S.	COMPANY/OWNER	dan sarvator, arg
	APPD.	FT /	ATE: DECEMBER 20 2016	SCALE: 1" = 100"
	SHEET I OF I SHE		TATE. DEGEMBER 20, 2016	UND AAAAA-A_PMGT

# DW STANDARDS 4-06A Page 2



BORDER/TITLE BLOCK 4-06B



D.W.D. PROPERTY MANAGEMENT STANDARDS: 12202016

BORDER/TITLE BLOCK 4-06B



#### PERIMETER DESCRIPTION 4-06C OT 4 SECTION 6, TOWNSHIP 6 SOUTH, RANGE 68 WEST 6th PM ---- DOUGLAS COUNTY ----C-ROAD-RWAY ≥` ≥ C-ANNO-L100 C-ANNO-LO80 C-ANNO-L140-ITAL C-ANNO-LO80 688 C-ANNO-LO60-ITAL C-ANNO-LO60 C-SECT-LINE-FULL 2 CC W PATAGONIA AVE ŝ 3 31 36 31 N89'58'40"E T 5 S ARAPAHOE COUNTY N Line NW 1/4 Sec 8 T 6 S N89'58'40"E S86'31'58"E 1 60.11 2 821.52' I Point of W 1/16 Cor Sec 5 S00'01'20"E Point of ≥≥ Commencement Beginning 15.00' Alum Cop LS 54321 NW Cor Sec 6 30 689 Parcel No 1 Brass Cap S89\*58'40\*W See DW drawing CAD 00001-2\_PMCT LS 1234567 A-56\*24'00" 15.00' сĸ C-ANNO-LOGO R-30.00' ∆=19°28'17" تيرا - C-ESMT-OTHR L-29.53 R=30.00' – C—ANNO–L140 8 Ch-N28'13'20"W 001-001/1/ 245.00//// \$00'01'20"E/ 6 L=10.20 S60"22'( 28.35 LOT 4 5 Ch=S09'42'48"W 10.15' PATABONIA SEC 6 C-PROP-LINE 頭 C-ESMT-ACQU C-PROP-DW A-89'58'58" C-PATT C-ANNO-L100 C-ANNO-L060 C-PROP-LINE C-ANNO-L140 BLK 1 R-22.00' N89'58'40"E L-34.55 10.00' Ch-S45'00'49"E Lot 1 31.11 N00'01'20"W 10.00' N89'59'42"E PARCEL NO 210.00 S89'58'40"W Point of 89'59'42"W 10.00' Beginning 217.00 Parcel No 2 N00'01'20"W N89'58'40"E 189'52'32" S00'07'28"E 42.00' A-89'58'58" 14.12' N00'07'28"W 80.00 80.00 30.00' 30.00' R-15.00° L=23.56° S00'29'54"E SB9"52'32 PARCEL NO Ch-N45'00'49"W 10.00' '20°W -ANNO-L120-SHAD 21.21 S89'58'40"W C-ESMT-DW See Dw 10001 248. W drawing Dr 402 No 2200 No DC00111234567 14.20 Recept C-ANNO-L060 םשנים PATABONIA RESERVOIR elièciyieich filine no 🗹 PROPERTY BASIS OF BEARINGS: Bearings are based on the N line of 30 Lot 4, Sec 6 being N89'58'40"E using Deed Recorded at Reception Number NAD 83 State Plane Coordinates. DC0011 123456 C-ANNO-LOBO W QUESTA AVE S89'58'40"W 30 C-ANNO-L080 C-ROAD-CNTR 30.00 007 200 PARCEL NO 1 CONTAINS 0.580 ACRE± (25,259 SQ FT) SCALE IN FEET PARCEL NO 2 CONTAINS 2,400 SQ FT DOCUMENT DATED: LEGEND MAIN DENVER WATER SEC'Y FILE DOC. 1600 West 12th Ave Denver, Calanada 80204-3410 T. 303.628.6000 F1303.628.6801 dan envector.org EASEMENT ACQUIRED RIMS ITEM NO. CARD NO. BNDRY EXISTING DW ESMT EASEMENT ACQUIRED FROM DRN. PM. S. COMPANY/OWNER BNDRY EXISTING DW PROP SCALE: 1" - 100' APPD DATE: DECEMBER 20, 2016 CAD XXXXX-X PMGT SHEET 1 OF 1 SHEET REPERTY MANAGEMENT STANDARDS:

# CROSSING OVERHEAD 4-06D



# CROSSING UNDERGROUND 4-06E



# UNDERGROUND DITCH/CANAL CROSSING 4-06F



# CENTERLINE DESCRIPTION 4-06G



# SIMPLIFIED AREA 4-06H



# FIRE HYDRANT EASEMENT 4-06I





# DISTRIBUTOR BORDER/TITLEBLOCK 4-06K



# Exhibit A Example

The following exhibit shows an example as described in the Engineering Standards.

	EXHIBIT "A"
Two parcels withi	n Lot 1, Block 1 of Patagonia Subdivision Filing 2, recorded as Map number XXX in File
number XX at the	Douglas County Clerk and Recorder's Office, said parcels are situated in Lot 4, Section
6, Township 6 So	buth, Range 68 West of the 6 <sup>th</sup> Principal Meridian, City of, County of
Douglas, State of	Colorado, more particularly described as follows:
PARCEL NO 1	
Commen	cing at the Northwest corner of said Section 6, and considering the North line of Lot 4 of
said Sect	
descriptio	
way me	
Thence a	
Thence S	
whence t	DADGE NO A
Thence a	PARCEL NO 2
30.00 fee	Commencing at the Northwest corner of said Section 6, and considering the North line of Lot 4
feet) to a	of said Section 6 to bear North 89°58'40" East, said line forming the Basis of Bearing for this legal
point bea	description; Thence South 60°22'07" East, a distance of 751.89 feet to an East property line of
Thence a	Denver Water's property for Patagonia Reservoir, as recorded in Book XXX at Page XXXX under
22.00 fee	Reception Number XXXXXXX at the Douglas County Clerk and Recorder's Office, also being the
Thence	Point of Beginning;
Thence S	Thence North 89°52'32° East a distance of 80 00 feet
Thence N	Thence South 00'07'28' East, a distance of 30.00 feet;
Thence a	Thence South 89°52'32" West, a distance of 80.00 feet to said East property line;
Thence \$	Thence along said East property line North 00°07'28' West, a distance of 30.00 feet to the Point of Registration
West Qu	or beginning.
Thence a Thence N	Parcel No 2 contains 2,400 square feet (0.055 acres), more or less.
point bea	
Thence a	
15.00 tee feet) to a	
Thence S	
Thence N	F5/17/200
Thence S	
Thence	and the second state
Thence N	Read and the second sec
point bea	
30.00 fee	
feet) to th	Joseph A. David, Colo. Reg. P.L.S. No. 00000
D	Jones & Smith Survey Inc.
Parcel IN	9885 West Colorado Lane, Suite 1350
	303-888-2345
	2 of 2
	1

# Closure Calculations Example

The following example shows the Closure Calculations as described in the Engineering Standards.

	Parce	l Map Cl	neck Report					
Client: Client Client Company Address 1 Date: 3/1/2012 9:	10:15 AM	Prepared Preparer Your Com 123 Main	by: pany Name Street				-	
Parcel Nam Description Process segr Enable map North:732.: Segment# 1 Length: 29, Delta: 56°2 Chord: 28.3	North: 487.3986' Segment# 7: Curve Length: 34.551' Delta: 89°58'58.0" Chord: 31.108' Course In: N	1	East: 3,820.6405' Radius: 22.000' Tangent: 21.993' Course: S45°00'49	2.00"E				1
Course In: RP North: 7 End North: Segment# 2	Segment# 8: Course: N89 North: 465.4	Length: 23.557' Delta: 89°58'58.0 Chord: 21.210' Course In: S89°5 RP North: 420.4	)" 8'40.00"W  83'	Radius: 15.000' Tangent: 14.995' Course: N45°00'49. Course Out: N0°00' East: 4,007.6630'	.00"W '18.00"W			
Segment# 3	Segment# 9: Course: S0° North: 360.5	End North: 4 Segment# 17 Course: S89	Course: \$0°07'28.00 North: 366.7932'	)"E	Length: 36 East: 3,68	0.000' 2.9271'		-
North: 742. Segment# 4 Course: S89	Segment# 10 Course: N85 North: 360.5	North: 435.3 Segment# 18 Course: N0%	Segment# 2: Line Course: S89°52'32.0 North: 366.6194'	00"W	Length: 8 East: 3,60	0.000' 2.9273'		
North: 742. Segment# 5 Length: 10.	Segment# 1 Course: S0°: North: 350.5	North: 477.3 Segment# 19 Course: S89 North: 477.3	Segment# 3: Line Course: N0°07'28.00 North: 396.6193'	0"W	Length: 3 East: 3,60	0.000' 12.8621'		
Chord: 10.1 Course In: 1 RP North: 7 End North:	Segment# 1: Course: S89 North: 350.9	Segment# 20 Course: N0% North: 487.3	Segment# 4: Line Course: N89°52'32.0 North: 396.7931'	00"E	Length: 8 East: 3,68	0.000' 2.8620'		
Segment# 6 Course: S0'	Segment# 1: Course: S0 <sup>o</sup> North: 172.4	Segment# 21 Course: N89 North: 487.3	Error Closure: 0.000 Error North : 0.0000 Precision 1: 220,000	00 00 0,000.000	Course: N East: 0.00	10:005q.rt. 10°00'00.00"E 1000		
	Segment# 14 Course: S89 North: 172.4	Segment# 22 Course: N0% North: 732.3						
	Course: N0 <sup>c</sup> North: 420.4 Segment# 10	Perimeter: 1, Error Closur Error North						
		Precision 1: Parcel Name Description:						
		Process segn Enable mapc North:396.7 Segment# 1:						

# Capital Projects Example Sheets

The following is an example of required information needed for Capital projects submittals. These examples shall be used in conjunction with the <u>CPCS</u> and the CAD Standards.

The examples illustrate common submittal types and are for graphic representation only. Graphic examples are not given for every submittal type; further clarification can be requested by contacting Denver Water's Sales Administration section. Denver Water has authority over water facilities only; the remainder of the plan presentation is at the discretion of the submitting engineering firm.

- Highlights in **BLUE** indicate drafter input is required
- Notes in **RED** are directions for reference purposes

#### Index of Sheets

This section outlines how Denver Water's Capital project drawings shall appear:

- Cover
- Survey Control
- Plan & Profile
- Plan, Profile, & Sections
- Architectural & Structural Dimensioning
- Mechanical Dimensioning
- Reference Only

This section outlines how Denver Water's Capital project electrical drawings shall appear:

- Instrument Control
- Process & Instrumentation Diagram
- Power & Grounding
- Lighting & Control
- Cathodic Protection
- Conduit & Conductor Schedule
- One-Line Diagram Plan View

ATTENTION Denver Water will not provide example drawings in DWG format.

# **DENVER WATER DENVER, COLORADO**

**DENVER WATER ENGINEERING - DESIGN** DRAFTING

DRAFTING STANDARDS FOR CAPITAL PROJECTS

CONTRACT # \_\_\_\_\_\_ CONTRACT NUMBER COVER BOARD OF WATER COMMISSIONERS DENVER, COLORADO Gary M. Reiff - President James S. Lochhead – CEO/Manager Robert J. Mahoney – Chief Engineering Officer

ADD VICINITY MAP\AERIAL PHOTO HERE

VICINITY MAP

NO SCALE

PROJECT

OCATION



М 1: 33



TITLE BLOCK VISIBILITY STATE: "DW C	over page"	DENVER WATER 1600 West 12th Ave Denver, Colorado 80204–3412 T: 303.628.6951 denverwater.org CONSULTANT CONSULTANT CONSULTANT LOGO
ADD LOCATION MAP HERE		ENGINEER'S STAMP IF REQUIRED
PROJECT TITLE PROJECT DESCRIPTION		DENVER WATER ENGINEERING – DESIGN DRAFTING
CURRENT LOCATION SERIES (H OTHERWISE CT	SHEET DESCRIPTION: (IF VARIES IN PROJECT) OR - USED IN PROJECT) E, LEAVE BLANK	DRAFTING STANDARDS FOR CAPITAL PROJECTS SAMPLE COVER SHEET REFERENCE: CAPITAL PROJECTS CONSTRUCTION STANDARDS 3rd Edition
LOCATION MAP SCALE: 1" = 3 miles		△         90% REVIEW           △         60% REVIEW           △         30% REVIEW
DRAWING INDEX DRAWING INDEX DUG NO G-1 G-1 CAPITAL PROJECTS COVER G-2 CAPITAL PROJECTS SURVEY CONTROL	OWNER: DENVER WATER 1600 W 12TH AVE DENVER, CO 80204 303–628–6000 CONTACT: DESIGN PROJECT MANAGER XXXXX, PE 303–628–XXXX XXXXn@denverwater.org	No Date Description REVISIONS VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING O "I" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY PT NO: "PROVIDED BY DPM" DRAWN BY: "DRAFTER'S LAST NAME" CHKD BY: "ENGINEER'S LAST NAME"
<ul> <li>C-1 CAPITAL PROJECTS CIVIL PLAN AND PROFILE - 1</li> <li>C-2 CAPITAL PROJECTS CIVIL PLAN AND PROFILE - 2</li> <li>C-3 CAPITAL PROJECTS CIVIL PLAN, PROFILE AND SECTIONS</li> <li>A-1 CAPITAL PROJECTS ARCHITECTURAL AND STRUCTURAL DIMENSIONING</li> <li>M-1 CAPITAL PROJECTS MECHANICAL DIMENSIONING</li> </ul>	CURRENT SHEET TITLE	APPD BY: DATE: <b>"MONTH 4-DIGIT YEAR"</b> CONTRACT: <b>"PROVIDED BY DPM"</b> AS-BUILT DATE: AS-BUILT BY: DRAWING TITLE
	CURRENT SHEET NUMBER	
– INDICATES DRAFTER INPUT ALL VALUES AVAILABLE TI	T REQUIRED HROUGH SHEET SET MANAGER	





DN NOTES:	1600 West 12th Ave Denver, Colorado 80204-3412 T: 303 628 6000
NG CONDUIT CENTERLINE CALLOUTS USE L140 TEXT. ED ON A CORRESPONDING ANNOTATION LAYER, FOR 'LE: "G-ANNO-L140". NEW CONDUIT CENTERLINE	F: 303.628.6851 denverwater.org CONSULTANT
UTS USE L175 TEXT CREATED ON A CORRESPONDING ATION LAYER.	
E ARROWHEADS TO INDICATE THAT THE DIMENSION NUES AND THE TERMINATING END IS NOT SHOWN.	
ENCE NOTES THAT ACCOMPANY CALLOUTS USE THESIS. STAND ALONE REFERENCE NOTES DO NOT USE THESIS.	
ND BREAK SYMBOL REQUIRED FOR ALL PIPES, THE HEIGHT SHALL BE Ø/2 AND THE WIDTH SHALL BE Ø/8.	
NAME IS "CPCS Detail callouts". VISIBILITY STATE IS D "Revised" BECAUSE THE DETAIL IS INCLUDED WITHIN UBJECT PLAN SET (DETAIL NOT INCLUDED IN THIS 'LE DRAWING SET).	
EXT OBJECT CREATED ON AN L120 ANNOTATION , FOR EXAMPLE: "G-ANNO-L120". THE TEXT HEIGHT :OLOR OF " <u>NOTES:</u> " IS MODIFIED USING THE EXT EDITOR. THE SETTINGS ARE MODIFIED TO 0.14	
OLOR PEN 23 RESPECTIVELY. GENERALLY, NOTES ARE D IN THE LOWER RIGHT HAND CORNER OF THE SHEET.	DENVER WATER ENGINEERING -
ARE TWO CARRIAGE RETURNS FOLLOWING "NOTES:".	DESIGN DRAFTING
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IS TOO LONG TO OTHERWISE FIT IN THE TITLE BLOCK . IF AMPERSAND IS USED IN ONE PLAN TITLE THEN IT TO BE USED IN ALL PLAN TITLES CONSISTENTLY.	
UR LABELING SHALL USE THE DW TEMPLATE STYLE OF R LABELS" AND "MINOR LABELS".	
IN TITLE BLOCK SHOULD BE ENTERED THRU SSM, IN ET MANAGER NOT THE SHEET MANAGER, USE D/YR FORMAT, DO NOT ADD LEADING ZEROS.	REFERENCE: CAPITAL PROJECTS CONSTRUCTION STANDARDS 3rd Edition
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– INDICATES DRAFTER INPUT REQUIRED	△ 90% REVIEW
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	BAR IS ONE INCH ON ORIGINAL DRAWING O INCHING I' IF NOT ONE INCH ON
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NTED.	PROFILE – 1 NOTE 9



\\denverwater.org\shares\Engcom\McMillen\Example Drafting Standard\00000\_DSGN\_CIML PROFILE-3.dwg C-2 12/10/2018 9:55 AM

<b>FUCCION NOTES:</b> NEW CONDUCT INSTALLATION CALLOUT IS A MULTILEADER, STILL LIPS CREATED ON LAYER 'C-ANNO-LIPS', LATER COLOR FR. 204. 'ZIGAC' HARCH PATTERN COLOR FR. 204. 'ZIGAC' HARCH PA	TRUCTION NOTES: NEW CONDUIT INSTALLATION CALLOUT IS A MULTILEADER, STYLE L175 CREATED ON LAYER "C-ANNO-L175", LAYER COLOR PEN 204.	DENVER WATER 1600 West 12th Ave Denver, Colorado 80204-3412 T: 303.628.6050 F: 303.628.6051 denverwater.org
TRUCTION NOTES:       Description         NEW CONDUTINITALLATION CALLOUT IS A MULTILADDER, STALLATION CALLOUTS, SCALE THE BLOCK NAME IS "OW MACHUNE" RESIDES ON LAYER "CONTRACT, CREATED ON HAVER "VER7", STATION ON THE PROFILE.         PROFILE LABEL STYLE "The Joints Right".         PROFILE LABEL STYLE "The JOINTS REWY         PROFILE LABEL STYLE "The JOINTS REWY         MULTICATES DRAFTER INPUT REQUIRED         MULTICATES DRAFTER INPUT REQUIRED         NO Date Description REVENT         NO Date Description REVENT         NO DATE STANDARD SHILE TO NOT MACTON STANDARDS HIL DITION NUMMUM STRANDARD SHILE TO NOT MACTON DISTON NON MULTICATES LAST MARKET REMOVE VEGETATION ON SUCCE AND CONTROL ELANAMET REQUIRED FOR RESTORMATION, SERVING STANDARD FALET AS NEW SERVICE TO METER PIT WITH CONTRET SUCCE AS DECOMPLET SHILL AND MULTICATES LAST MARKET NUMMUM SERANDING CH A FOR REQUIRED CATHONIC FROTECTION.	TRUCTION NOTES: NEW CONDUIT INSTALLATION CALLOUT IS A MULTILEADER, STYLE L175 CREATED ON LAYER "C-ANNO-L175", LAYER COLOR PEN 204.	Denver, Colorado 80204-3412 T: 303.628.6000 F: 303.628.6851 denverwater.org
NEW CONDUCT INSTALLATION CALLOUT IS A WULTILEADER, STALE LTS CREATED ON LAYER "C-ANNO-LITS", LAYER COLOR PEN 204.       CONSULTANT         "ZIGZAC" HATCH PATTERN OR LINETYPE INDICATES ARAMONED UTUTY PER COSS OFIDID O. CREATED ON LAYER "Q-PATT".       CONSULTANT         BLOCK NAME IS "CPCS Detail collouts". SCALE THE EDOX EVA AVELS.       CONSULTANT         FLOOD ZONE LMITS CREATED ON LAYER "V-FLHA" (SURVEY: TOOD HAZARD) UNLET TYPE "INVERZ". COLOR PEN 133.       DENVER WATER EDOX EVA AND.         PRE NETWORK PIPE LABEL STYLE "Conduit Signe". "ECANTO-MARC". CREATE MATCH LINES ON LAYER "C-ANNO-MARC". CREATE MATCH LINES ON A EVEN STATION THAT CORRESPONDS TO THE MAJOR ORID STATION ON THE PROFILE.         PROFILE LABEL STYLE "Tied Joints Right".       DENVER WATER ENGINEERING - DESIGN DRAFTING DRAFTING STANDARDS FOR CAPITAL PROJECTS         - INDICATES DRAFTER INPUT REQUIRED       REFERENCE: CAPITAL PROJECTS CONSTRUCTION STATION ON THE PROFILE LABEL STYLE "Tied Joints Right".         - INDICATES DRAFTER INPUT REQUIRED       REFERENCE: CAPITAL PROJECTS ON CAPITAL PROJECTS         - INDICATES DRAFTER INPUT REQUIRED       REFERENCE: CAPITAL PROJECTS CONSTRUCTION STATION ON THE PROFILE INFORMATION WITH ENDITION MARCE TREVISIONS         NOTES:       1 INDICATES SERVICE TO METER PIT WITH MINIMUM SEPARATION OF G- RECOURT DO NEME MINIMUM SERVICES TANDARD PROFILES AND MARCE MARCE TREVISIONS         NOTES:       1 SEED RAWING GTHE FOR RESIGNATION MARCE TREVERSION CONTROL BLANKET REQUIRED FOR RESIGNATION MARCE TREVISION ON SLOPE AS NECESSARY.         SEED RAWING G-4 FOR REQUIRED CATHOLOU ROWING THE PACITION UND TO STATION THE R	NEW CONDUIT INSTALLATION CALLOUT IS A MULTILEADER, STYLE L175 CREATED ON LAYER "C-ANNO-L175", LAYER COLOR PEN 204.	deriverwater.org
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BLOCK NAME IS "CPCS Detail collouts". SCALE THE BLOCK BY A PACTOR OF 1.2, WHEN USED IN THE BLOCK OF AN ATC.         FLODD ZONE, UNITS CREATED ON LAYER "V-FLHA" (SURVEY, FLODD HAZARD), LINE TYPE "RIVER2", COLOR PEN 133.         PPE NETWORK, PPE LABEL STYLE "Conduit Siope". NEGATIVE SIOPES NOT ALLOWED, WHEN NEGATIVE SLOPES OCCUP USE A TEXT OBJECT IN LIEU OF A "Conduit Slope" PIPE LABEL.         PROFILE IS "DW MATCHLINE" RESIDES ON LAYER "C-ANNO-MATC". CREATE MATCH LINES ON A EVEN STATION THAT CORRESPONDS TO THE MAJOR GRID STATION ON THE PROFILE.         PROFILE LABEL STYLE "Tied Joints Right".         DENDICATES DRAFTER INPUT REQUIRED         - INDICATES DRAFTER INPUT REQUIRED         NOTES.         - INDICATES DRAFTER INPUT REQUIRED         NOTES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH COPPER PIPE, SIZE AS SHOWL, EXTEND TO NEW MAIN AS REQUIRED FER DENVER WATER ENGINEERING STANDARDS OF GETIVENTIAL DRAFTER'S LAST MARE DRAFTER'S DRAFTER'S LAST MARE DRAFTER'S LAST MARE DRAFTER'S LAST MARE	"ZIGZAG" HATCH PATTERN OR LINETYPE INDICATES ABANDONED UTILITY PER CPCS (01010). CREATED ON LAYER "G-PATT".	
FLOOD ZONE LIMITS CREATED ON LAYER "V-FLHA" (SURVEY: FLOOD HAZARD), LINE TYPE "RIVER2", COLOR PEN 133.         PIPE NETWORK, PIPE LABEL STYLE "Conduit Slope". NEGATIVE SLOPE'S NOT ALLOWED, WHEN NEGATIVE SLOPE'S OCCUP USE A TAXT OBJECT IN LIEU OF A "Conduit Slope" PIPE LABEL.         BLOCK NAME IS "OW MATCHLINE" RESIDES ON LAYER "CANNON THAT CORRESPONDS TO THE MAJOR ORD STATION ON THE PROFILE.         PROFILE LABEL STYLE "Tied Joints Right".         PROFILE LABEL STYLE "Tied Joints Right".         DRAFTING STANDARDS 4th EDITON "STANDARDS 4th EDITON         MILL CATES DRAFTER INPUT REQUIRED         REFERENCE: CONTAL PROJECTS CONSTRUCTION STANDARDS 4th EDITON         OPPER PIPE, SIZE AS SHOWN EXTEND TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         1. REPLACE EXISTING SERVICE TO METER PIT WITH MININUM SEPARATION OF 6-INCHES.         2. SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESTORATION TWITH MININUM SEPARATION OF 6-INCHES.         3. SEE DRAWING G-4 FOR REQUIRED CATHODIC PROFILE TO CONTROL LAST DUAL TO STATION ON SLOPE AS NECESSARY.         CAPITAL PROJECTS CONTRACT: PROVECE GUT TON ON SLOPE AS NE	BLOCK NAME IS "CPCS Detail callouts". SCALE THE BLOCK BY A FACTOR OF 1.2, WHEN USED IN THE BODY OF A NOTE.	
PPE NETWORK, PIPE LABEL STYLE "Conduit Slope". NEGATIVE SLOPES NOT ALLOWED. WHEN NEGATIVE SLOPES OCCUR USE A TEXT OBJECT IN LIEU OF A "Conduit Slope". PIPE LABEL         BLOCK NAME IS "DW MATCHLINE" RESIDES ON LAYER STATION ON THE PROFILE.         PROFILE LABEL STYLE "Tied Joints Right".         DENCER WATER ENGINEERING - DESIGN DRAFTING STATION ON THE PROFILE.         PROFILE LABEL STYLE "Tied Joints Right".         DRAFTING STANDARDS FOR CAPITAL PROJECTS         C - INDICATES DRAFTER INPUT REQUIRED         REFERENCE: CAPITAL PROJECTS CONSTRUCTION STATION ON THE PROFILE.         DRAFTING STANDARDS FOR CAPITAL PROJECTS CONSTRUCTION STATION ON THE PROFILE.         NOTCATES DRAFTER INPUT REQUIRED         REFERENCE: CAPITAL PROJECTS CONSTRUCTION STATION ON THE STATION ON THE PROFILE LABEL STYLE "TIED JOINT REQUIRED         NO DOTE DRAFTER INPUT REQUIRED         NO Date       Description REVISIONS         VERTIFY SCALES PROFILE CAST MANGED SERVICES TO EXTEND VERTE ENGINEERING STANDARD SHEET 54. NEW MAIN AS REQUIRED PER DENVER WATER ENGINEERING STANDARD SHEET 54. NEW SERVICES TO EXTEND VER CONSUMINE TO NEW MAIN AS REQUIRED PER DENVER WATER ENGINEERING STANDARD SHEET 54. NEW SERVICES TO EXTEND VER CONSUMINE THE MINIMUM SEPARATION OF 6-INCHES.         SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESTORATION.         SEE DRAWNG G-4 FOR REQUIRED CATHODIC PROFILE PROJECTION.         A REMOVE VEGETATION ON SLOPE AS NECESSARY.         CAPITAL PROJECTS CIVIL PLAN AND PROFILE _ 2	FLOOD ZONE LIMITS CREATED ON LAYER "V—FLHA" (SURVEY: FLOOD HAZARD), LINE TYPE "RIVER2", COLOR PEN 133.	
<ul> <li>BLOCK NAME IS "DW MATCHUINE" RESIDES ON LAYER "C-ANNO-MATC". CREATE WATCH LINES ON A EVEN STATION ON THE PROFILE.</li> <li>PROFILE LABEL STYLE "Tied Joints Right".</li> <li>DENVER WATER ENGINEERING - DESIGN DRAFTING DRAFTING STANDARDS FOR CAPTIAL PROJECTS</li> <li>INDICATES DRAFTER INPUT REQUIRED</li> <li>REFERENCE: CAPITAL PROJECTS CONSTRUCTION STATION ON THE PROFILE LABEL STYLE "Tied JOINTS RIGHT".</li> <li>INDICATES DRAFTER INPUT REQUIRED</li> <li>REFERENCE: CAPTIAL PROJECTS CONSTRUCTION STATION ON THE DENVER WATER DENVER WATER DRAFTING STANDARDS FOR CAPTIAL PROJECTS</li> <li>REFERENCE: CAPITAL PROJECTS CONSTRUCTION STATION ON THE DENVER WATER DENVER WATER DENVER DENVER WATER DENVER WATER DENVER DENVER WATER DENVER WATER DENVER DE</li></ul>	PIPE NETWORK, PIPE LABEL STYLE "Conduit Slope". NEGATIVE SLOPES NOT ALLOWED. WHEN NEGATIVE SLOPES OCCUR USE A TEXT OBJECT IN LIEU OF A "Conduit Slope" PIPE LABEL.	
<ul> <li>STATION THAT CORRESPONDS TO THE MAJOR GRID STATION ON THE PROFILE.</li> <li>PROFILE LABEL STYLE "Tied Joints Right".</li> <li>DENVER WATER ENGINEERING → DESIGN DRAFTING</li> <li>DRAFTING STANDARDS FOR CAPTIAL PROJECTS</li> <li>CAPITAL PROJECTS CONSTRUCTION STANDARDS 4th EDITION</li> <li>THE DRAWING IS BASED ON THE COOPERATE SYSTEM</li> <li>NOTES:</li> <li>REFLACE EXISTING SERVICE TO METER PIT WITH MINIMUM SEPARATION OF 6-INCHES.</li> <li>SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESIGNERY</li> <li>SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESIGNATION.</li> <li>SEE DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION.</li> <li>REMOVE VEGETATION ON SLOPE AS NECESSARY.</li> <li>FROMOVE VEGETATION ON SLOPE AS NECESSARY.</li> </ul>	BLOCK NAME IS "DW MATCHLINE" RESIDES ON LAYER "C-ANNO-MATC". CREATE MATCH LINES ON A EVEN	
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<ul> <li>INDICATES DRAFTER INPUT REQUIRED</li> <li>REFERENCE: CAPITAL PROJECTS CONSTRUCTION STANDARDS 4th EDITION</li> <li>THIS DRAWING IS BASED ON THE CAPITAL ON THE STANDARD STRUCT</li> <li>INS DRAWING IS BASED ON THE CONSTRUCTION STANDARDS 4th EDITION</li> <li>INS DRAWING IS BASED ON THE CONSTRUCTION STANDARDS 4th EDITION</li> <li>INS DRAWING IS BASED ON THE CONSTRUCTION STANDARDS 4th EDITION</li> <li>INS DRAWING IS BASED ON THE CONSTRUCTION STANDARDS 4th EDITION</li> <li>INS DRAWING IS BASED ON THE CONSTRUCTION STANDARDS 4th EDITION</li> <li>INS DRAWING IS BASED ON THE CONSTRUCTION STANDARDS 4th EDITION</li> <li>INS DRAWING THE CONSTRUCTION STANDARD STANDARD SHEET 54. NEW SERVICES TO EXTEND OVER CONDUIT WITH MINIMUM SEPARATION OF 6-INCHES.</li> <li>SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESTORATION.</li> <li>SEE DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION.</li> <li>REDUNE TO NALOPE AS NECESSARY.</li> <li>FERM STATION 10+20 TO STATION 15+30 LIMIT</li> </ul>		DRAFTING STANDARDS FOR CAPTIAL PROJECTS
<ul> <li>INDICATES DRAFTER INPUT REQUIRED</li> <li>REFERENCE: CAPITAL PROJECTS CONSTRUCTION STANDARDS 4th EDITION</li> <li>THE DRAWING IS BASED ON THE CORDINATE SYSTEM</li> <li>INFO DRAWING IS BASED ON THE CONTINUE SYSTEM</li> <li>INFO DRAWING STANDARD SHEET SAL NEW SERVICES TO EXTEND OVER CONDUCT WITH MINIMUM SEPARATION OF 6-INCHES.</li> <li>INOPER PIPE, SIZE AS SHOWN, EXTERD TO INVER MAIN AS REQUIRED PER DENVER WATER ENGINEERING STANDARD SHEET SAL NEW SERVICES TO EXTEND OVER CONDUCT WITH MINIMUM SEPARATION OF 6-INCHES.</li> <li>INOPER TABULZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESTORATION.</li> <li>SEE DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION.</li> <li>REMOVE VEGETATION ON SLOPE AS NECESSARY.</li> <li>FEROM STATION 10+20 TO STATION 15+30 LIMIT</li> </ul>		
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<ul> <li>NOTES:</li> <li>REPLACE EXISTING SERVICE TO METER PIT WITH COPPER PIPE, SIZE AS SHOWN. EXTEND TO NEW MAIN AS REQUIRED PER DENVER WATER ENGINEERING STANDARD SHEET 54. NEW SERVICES TO EXTEND OVER CONDUIT WITH MINIMUM SEPARATION OF 6−INCHES.</li> <li>SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESTORATION.</li> <li>SEE DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION.</li> <li>REMOVE VEGETATION ON SLOPE AS NECESSARY.</li> <li>FROM STATION 10+20 TO STATION 15+30. LIMIT</li> </ul>		△ 60% REVIEW
<ul> <li>No Date Description REVISIONS</li> <li>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING</li> <li>UPROFUNCTIONE INCH ON ORIGINAL DRAWING</li> <li>UPROFUNCTIONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</li> <li>PT NO: "PROVIDED BY DPM"</li> <li>DRAWN BY: "PROVIDED BY DPM"</li> <li>DATE: "PROVIDED BY DPM"</li> <li>DATE: "PROVIDED BY DPM"</li> <li>DATE: "PROVIDED BY DPM"</li> <li>DATE: "PROVIDED BY DPM"</li> <li>AS-BUILT DATE:</li> <li>AS-BUILT DATE:</li> <li>AS-BUILT DATE:</li> <li>AS-BUILT DATE:</li> <li>DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION.</li> <li>REMOVE VEGETATION ON SLOPE AS NECESSARY.</li> <li>FEROM STATION 10+20 TO STATION 15+30 LIMIT</li> </ul>		△ 30% REVIEW
<ul> <li>VERIFY SCALES         <ul> <li>BAR IS ONE INCH ON             O                  ORGINAL DRAWING             O</li></ul></li></ul>		No Date Description REVISIONS
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3. SEE DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION. 4. REMOVE VEGETATION ON SLOPE AS NECESSARY. 5. FROM STATION 10+20 TO STATION 15+30 LIMIT  PROFILE - 2	2. SLOPE STABILIZATION WITH EROSION CONTROL BLANKET REQUIRED FOR RESTORATION.	AS-BUILT DATE: AS-BUILT BY:
4. REMOVE VEGETATION ON SLOPE AS NECESSARY. 5. FROM STATION 10+20 TO STATION 15+30 LIMIT	<ol> <li>SEE DRAWING G-4 FOR REQUIRED CATHODIC PROTECTION.</li> </ol>	DRAWING TITLE
5 FROM STATION 10+20 TO STATION 15+30 LIMIT <b>PROFILE – 2</b>	4. REMOVE VEGETATION ON SLOPE AS NECESSARY.	CAPITAL PROJECTS CIVIL PLAN AND
WORK AREA TO 50-FEET ON EITHER SIDE OF	5. FROM STATION 10+20 TO STATION 15+30, LIMIT	PROFILE – 2
EXAMPLE	WORK AREA TO 50-FEET ON EITHER SIDE OF	1





SECOND AND ALL SUCCESSIVE DIMENSION STRINGS ARE OFFSET 5/16" FROM FIRST OR PREVIOUS DIMENSION STRING

#### INSTRUCTION NOTES:

- 1. DIMENSION STYLE USED IS "L100 nearest 32nd". ALL LINE WORK, TEXT OBJECTS, AND SUBJECT GRAPHICS CREATED IN MODEL SPACE
- 2. DIMENSIONING IS CREATED ON LAYER "S-ANNO-DIMS". THE DISCIPLINE DESIGNATION IN THE LAYER NAME VARIES (I.E. "M-ANNO-DIMS").
- 3. DETAIL SUBJECT GRAPHICS CREATED ON LAYER 'S-DETL-METL" (STRUCTURAL: DETAIL: METAL).
- 4. CIRCLES (DRILLED HOLE) HAS CENTER LINES ALONG THE X AND Y AXIS, DRAWN ON LAYER "S-ANNO-DIMS-CNTR", PEN 31, "CENTER4" LINE TYPE. THE CENTERLINES EXTEND PAST THE LIMIT OF THE CIRCLE TO A DISTANCE THAT IS LEGIBLE AND LOGICAL.
- 5. BLOCK NAME IS "PLAN title". INSERTION UNITS IS "FEET" (2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND. THE PLAN TITLE HAS 1 LEADING AND 1 TRAILING UNDERLINED SPACE. TO CREATE THE UNDERLINE SPACE, HOLD THE "AIT" KEY AND TYPE "0160".
- 6. THE DETAIL IS A MARK ("MK") NUMBERED DETAIL, IDENTIFIED IN SEVERAL OTHER DETAILS WITHIN THE PLAN SET BUT NOT ALWAYS SHOWN EXACTLY AS REPRESENTED IN THIS VIEW. MARK NUMBERS, DETAIL NUMBERS, SECTION ALPHABETIC CHARACTERS, AND CPCS NUMBERS SHOULD APPEAR ON THE DRAWING IN ASCENDING ORDER FROM LEFT TO RIGHT AND TOP TO BOTTOM.
- 7. THE SCALE IS IN ARCHITECTURAL UNITS, FEET AND INCHES.
- 8. MULTI-TEXT L120 CENTER JUSTIFIED.

#### NSTRUCTION NOTES:

- THE MULTILEADERS ARE CREATED ON LAYER "S-ANNO-L100". THE SIZE OF THE MULTILEADER TEXT DICTATES THE LAYER THE MULTILEADER IS ASSIGNED TO.
- "(TYP)" IS INCLUDED IN THE "MK-12" CALL OUT BECAUSE IT APPEARS, GRAPHICALLY THE SAME, TWICE IN THE "PLAN" PORTION OF THE DETAIL.
- 3. L175 MULTITEXT ON LAYER "G-ANNO-L175" WITH NO LEADING OR TRAILING SPACE.
- BLOCK NAME IS "Section or Detail Title scale". INSERTION UNITS IS "FEET" (2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND.
- THIS DWG" IS A BLOCK ATTRIBUTE AND DIRECTS THE READER TO THE CORRESPONDING LOCATION WITHIN THE PLAN SET.
- 6. DETAIL GRAPHIC CREATED ON LAYER "S-DETL-WOOD" (STRUCTURAL: DETAIL: WOOD).
- DETAIL GRAPHIC CREATED ON LAYER "S-PATT-WOOD" (STRUCTURAL: PATTERN: WOOD), LAYER COLOR SET TO PEN 252 TO INCREASE SCREENING OF LINE WEIGHT.
- "(TYP OF 10)" INDICATES THAT THE SUBJECT OBJECT OF THE MULTILEADER, APPEARS 10 TIMES IN THE DETAIL, 2 LEADERS ARE ALLOWED IN THIS INSTANCE BECAUSE THE SUBJECT OBJECT APPEARS IN THE "PLAN" AND "ELEVATION" PORTIONS OF THE DETAIL.
- 9. DETAIL GRAPHIC CREATED ON LAYER "S-DETL-WOOD-HDLN" (STRUCTURAL: DETAIL: WOOD: HIDDENLINE). LAYER LINE TYPE IS SET TO "HIDDEN2" AND A PEN 1 COLOR.
- 10. DETAIL GRAPHIC CREATED ON LAYER "S-DETL-HRDW", (STRUCTURAL: DETAIL: HARDWARE).
- "(TYP OF 2)" ADDED TO CALL OUT BECAUSE THE CALL OUT LEADER POINTS TO DIFFERENT VIEWS OF THE SUBJECT OBJECT BEING IDENTIFIED. IN THE "ELEVATION" VIEW THE THE SUBJECT OBJECT IS SHOWN ONCE, IN THE "PLAN" VIEW THE SUBJECT IS SHOWN TWICE.



SCALE: 1/2" = 1'-0"

THIS DW

12/10/2018 AS−1

Σ 2 ö

1. DIMENSION FORMAT USED WHEN DIMENSIONING A SERIES OF DIENTICAL AND REPEATING DIMENSIONS. IN THIS CASE 6 SPACES AT A DIMENSION OF 5'-0" IS REPEATED. THE TOTAL DISTANCE BEING DIMENSIONED IS 30'-0"

2. THIS DIMENSION IS REQUIRED TO INDICATE THE SUBJECT MATTER OF THE SERIES DIMENSION DISCUSSED IN NOTE 1.

A CENTERLINE IS USED TO ESTABLISH THE DIMENSION ORIGIN. THE CENTERLINE IS CREATED ON LAYER "S-ANNO-DIMS-CNTR" (STRUCTURAL: ANNOTATION: DIMENSION: CENTER), PEN 31, "CENTER4" LINE TYPE.

BLOCK NAME IS "Section line". INSERTION UNITS IS "FEET" (2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND. A WIPEOUT POLYLINE FRAME IS USED TO CLEAR THE BACKGROUND LINEWORK. THE WIPEOUT POLYLINE IS CREATED ON LAYER "G-SECT" AND THE "FRAME" TOGGLE SET TO "OFF". SECTIONS ARE ASSIGNED AN ALPHA CHARACTER DESIGNATION, IN THIS CASE SECTION "A".

5. "PARTIAL ..." DESIGNATION ADDED BECAUSE THE COMPLETE "TRUSS PLAN" IS IDENTIFIED SOMEWHERE ELSE IN THE PLAN SET (NOT INCLUDED IN THE EXAMPLE DRAWING SET).

6. BLOCK NAME IS "PLAN title". INSERTION UNITS IS "FEET" (2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND. THE PLAN TITLE HAS 1 LEADING AND 1 TRAILING UNDERLINED SPACE. TO CREATE THE UNDERLINE SPACE, HOLD THE "UN" UNDERLINE "PACE" THE "AIT" KEY AND TYPE "0160".

1. BLOCK NAME IS "Detail Callout" WITH THE VISIBILITY STATE SET TO "NO ARROW". INSERTION UNITS IS "FEET" (2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND. THE CALLOUT IDENTIFIES A COMPONENT THAT IS INCLUDED IN A PORTION OF A SECTION OR DETAIL. IN THIS CASE THE "NOSING PL (PLATE)" MATERIAL AND INSTALLATION INFORMATION IS IDENTIFIED IN SECTION "B" ON SHEET S-4 (NOT INCLUDED IN THE EXAMPLE DRAWING SET).

2. POLYLINE CREATED ON LAYER "S-ANNO-MATC" (STRUCTURAL: ANNOTATION: MATCHLINE), THE LINETYPE GENERATION IS "ENABLED" THROUGH THE PROPERTIES DIALOG BOX. THE GRAPHIC DEFINES THE EXTENTS OF DETAIL 1.

3. BLOCK NAME IS "Detail callout" WITH THE VISIBILITY STATE SET TO "ARROW". INSERTION UNITS IN "FEET"(2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND. DETAILS ARE ASSIGNED A NUMERIC CHARACTER DESIGNATION,

"THIS DWG" IS A BLOCK ATTRIBUTE AND DIRECTS THE READER TO THE CORRESPONDING LOCATION WITHIN THE PLAN SET.

5. BREAKLINES ON BOTH ENDS OF THE SECTION TO INDICATE THAT THE STRUCTURE SUBJECT GRAPHICS CONTINUE BEYOND

6. ONLY ONE BREAKLINE SYMBOL IS REQUIRED PER BREAKLINE.

7. BLOCK NAME IS "Section line". INSERTION UNITS IS "FEET" (2), INSERTED IN PAPER SPACE AND MAY BE MOVED INTO MODEL SPACE THROUGH THE VIEWPORT USING THE "CHSPACE" COMMAND. THE SECTION DESIGNATION IS "C" BECAUSE "A" &

"B" DESIGNATIONS ARE ALREADY IN USE ON THIS DRAWING.

- INDICATES DRAFTER INPUT REQUIRED

DENVER WATER			
1600 West 12th Ave Denver, Colorado 80204-3412			
F: 303.628.6000 F: 303.628.6851 denverwater.org			
CONSULTANT			
DENVER WATER			
ENGINEERING -			
DESIGN DRAFTING			
DRAFTING STANDARDS			
FOR CAPTIAL PROJECTS			
REFERENCE:			
STANDARDS 4th EDITION			
THIS DRAWING IS BASED ON THE			
$\Delta$			
Δ			
△ 90% REVIEW			
60% REVIEW			
△ 30% REVIEW			
No Date Description REVISIONS			
VERIFY SCALES			
BAR IS ONE INCH ON ORIGINAL DRAWING			
0 IF NOT ONE INCH ON			
THIS SHEET, ADJUST SCALES ACCORDINGLY			
PT NO: "PROVIDED BY DPM"			
CHKD BY: "ENGINEER'S LAST NAME"			
CHKD BY: LAST NAME"			
APPD BY:			
DATE: "MONTH 4-DIGIT YEAR"			
AS-BUILT DATE:			
AS-BUILT BY: DRAWING TITI F			
ARCHITECTURAL AND			
STRUCTURAL			
DIMENSIONING			
EXAMPLE			



10:00 12/10/2018 DSGN\_M-8 17352

	1600 West 12th Ave
	Denver, Colorado 80204-3412 T: 303.628.6000 F: 303.628.6851
	denverwater.org CONSULTANT
	DENVER WATER
	ENGINEERING -   DESIGN_DRAFTING
	FOR CAPTIAL PROJECTS
LEET JUSTIFIED LEADER ANCHORS TO THE MIDDLE	
TEXT WHEN LEADER IS POINTING TO THE RIGHT AND TO MIDDLE OF TOP LINE OF TEXT WHEN LEADER IS	REFERENCE:
AND UP. LEADER ANCHORS TO THE TOP MIDDLE LINE 3 POINTING TO THE LEFT REGARDLESS IF THE LEADER	CAPITAL PROJECTS CONSTRUCTION STANDARDS 4th EDITION
. ENCLOSURE DESIGNATION RELATIVE TO THE PLAN "E-ANNO-L100" WITH A PEN 1 COLOR. THIS IS THE	THIS DRAWING IS BASED ON THE COORDINATE SYSTEM
EPTABLE FOR L100 SIZE TEXT.	$\Delta$
ED IN MODEL SPACE ON LAYER "M-ANNO-DIMS", AND "BECAUSE THE DIMENSION SPANS ACROSS A	
etail Callouts", WITH THE VISIBILITY STATE SET TO CLUDED BECAUSE THE DETAIL BEING REFERENCED HAS	90% REVIEW
S (NOT INCLUDED IN THIS EXAMPLE DRAWING SET).	△ 30% REVIEW
Elevation Indicator". INSERTION UNITS IS "FEET" (2), E AND MOVED THROUGH THE VIEWPORT USING THE	No Date Description
HIS DWG" IS L100 TEXT ON LAYER DLOR SET TO PEN 12. "A" AND "B" IS L175 TEXT ON	VERIFY SCALES
OLOR SET TO PEN 4. THE BLOCK REFERS THE	BAR IS ONE INCH ON ORIGINAL DRAWING
RED TO RESIDE ON A DIFFERENT SHEET, THEN "THIS	IF NOT ONE INCH ON
THIS EXAMPLE SET).	PT NO: "PROVIDED BY DPM"
DEJECT PLACED BELOW OR BESIDE THE CPCS THE DETAIL INDICATED IS SHOWN IN MULTIPLE PLACES	DRAWN BY: "DRAFTER'S LAST NAME"
	CHKD BY: "ENGINEER'S LAST NAME"
ATED ON LAYER "M-WATR-PIPE-CNTR" (MECHANICAL: ), LAYER COLOR PEN 51 AND "CENTFR?" LINF TYPF	CHKD BY: LAST NAME"
JIRED IN ELEVATION AND PLAN VIEW FOR DIMENSION	
ATED ON LAYER "M-MPIP-CNTR" (MECHANICAL:	DATE: "MONTH 4-DIGIT YEAR"
ENTERLINE), LAYER COLOR PEN 51 AND "CENTER2" F PIPE REQUIRED IN ELEVATION AND PLAN VIEW FOR	CONTRACT: "PROVIDED BY DPM" AS-BUILT DATE:
R POINT.	AS-BUILT BY: DRAWING TITLF
FOR ALL "PLAN" REPRESENTATIONS, ON LAYER	
SPACE SIZE MATCHES IN ALL PLACES SHOWN ON	CAPITAL PROJECTS
CALE.	DIMENSIONING
CATES DRAFTER INPUT REQUIRED	
	EXAMPLE



	DENVER WATER
	1600 West 12th Ave Denver, Colorado 80204-3412 T: 303.628.6800 F: 303.628.6851 denverwater.org
	CONSULTANT
s\Design Drafting.dwg"	
HER USEFUL BLOCKS IN Projects zin\DOWNI OAD Capital Projects\4 Pa	l lettes\Design_Drafting.dwa"—
ates\Desian C3D dwt—	
	DENVER WATER
	ENGINEERING -
	DRAFTING STANDARDS
	FOR CAPTIAL PROJECTS
ES ARE ALSO MANAGED THROUGH ATES. TO PATH TO THE CORRECT ATES GO TO MANAGE RIBBON – REFERENCE	
ATES ARE IN Projects.zip\DOWNLOAD Capital ates\Reference Templates	REFERENCE: CAPITAL PROJECTS CONSTRUCTION STANDARDS 4th EDITION
	THIS DRAWING IS BASED ON THE COORDINATE SYSTEM
atalog	△         90% REVIEW
– CREATE DESIGN PANEL – SET TALOG	△         60% REVIEW           △         30% REVIEW
	No Date Description REVISIONS
n al Projects\5_Templates\DSGN.dst	VERIFY SCALES BAR IS ONE INCH ON
	ORIGINAL DRAWING O 1" IF NOT ONE INCH ON
STARTING AND ENDING STATIONS BASED ON	THIS SHEET, ADJUST SCALES ACCORDINGLY PT NO:
N OF CONCRETE PIPE JOINTS.	DRAWN BY:
INTERNAL SEALS AT FACH STEFT TO	CHKD BY:
E PIPE JOINT AND 2 CONCRETE JOINTS (TOTAL = 6). ASSUMED JOINT SPACING IS	APPD BY:
STOCKPILE EQUIPMENT OR MATERIALS ON	DATE:
NO. 19 OR 29. ITAINS HIGH METHANE LEVELS. MONITOR GAS	AS-BUILT DATE: AS-BUILT BY: DRAWING TITLF
ND USE APPROPRIATE SAFETY PROCEDURES. ES ADDED FOR MANHOLE VENTILATION.	
R TO COORDINATE WITH OWNER TO ADD CE MARKINGS TO VENT POST AFTER IT IS	CIVIL PLAN AND PROFILE - 1
NC WITH MULTIPLE VISIBILITY STATES	<b></b>





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12:55 12/10/2018 ROL



m\McMillen\Example Drafting Standard\00000\_DSGN\_ELEC\_CC.dwg CONDUIT AND CONDUCTOR 12/10/2018 1:31 PM res \En iter.org/share

	– INDICATES DRAFTER INPUT REQUIRED																		
VAULT NO 6	VAULT NO 6 (WOF)	VAULT NO 7 SUBMERSIBLE EFL PUMP LEVEL SW	LSHH AND OVERLOAD ALARMS	VAULT NO 7 WATER-ON-FLOOR ALARM															1600 West 12th Ave Derver, Colorado 80204-3412 T: 303.628.60851 denverwater.org CONSULTANT
LSH20-06-02	LSH20-06-02	LSL/LSH/LSHH20-07	LCP-VLT7	WOF-VLT7	ETHERNET SW IN LCP-WQB	SECURITY GATE	VAULT NO 1	VAULT NO 4	VAULT NO 7	EHH7	EHH7	EHH7	ZS20-01	ZS20-02	ZS20-03	ZS20-04	ZS20-06	ETHERNET SW IN EXIST PS	DENVER WATER ENGINEERING – DESIGN DRAFTING DRAFTING STANDARDS FOR CAPTIAL PROJECTS
SEPC20-06	SEPC20-06	SEPC20-07	SEPC20-07	LCP-VLT7	PLC IN LCP-VLT7	ЕНН9	ЕНН9	EHH8	EHH8	EHH6	EHH8	LCP-WQB	MS-EF2	MS-EF3	MS-EF4	MS-EF5	MS-EF7	EXIST PLC IN PS	REFERENCE:         CAPITAL PROJECTS CONSTRUCTION         STANDARDS 4th EDITION         THIS DRAWING IS BASED ON THE         COORDINATE SYSTEM         C
MANUFACTURER CABLES	MANUFACTURER CABLES	(4) MANUFACTURER CABLES	6#14, 1#14 GND XHHW-2	(1) MANUFACTURER CABLES	CAT 5E	PULL-STRING	PULL-STRING	PULL-STRING	PULL-STRING	PULL-STRING	PULL-STRING	PULL-STRING	2#14, 1#14 GND XHHW-2	CAT 5E	No Date Description REVISIONS VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 11" IF NOT ONE INCH ON THIS SHEET. ADUST SCALES ACCORDINGLY PT NO: "PROVDED BY DPM" DRAWN BY: "DRAFTER'S LAST NAME" CHKD BY: "ENGINEER'S LAST NAME"				
PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	PVC-RGS	APPD BY: DATE: "MONTH 4-DIGIT YEAR" CONTRACT: "PROVIDED BY DPM" AS-BUILT DATE: AS-BUILT DATE:
0.75"	0.75"	1.25	0.75	0.75"	0.75"	1.5"	1.5"	1.5"	2.0"	2	2	2	1.0"	1.0"	1.0"	1.0"	1.0"	1.0"	DRAWING TITLE CAPITAL PROJECTS ELEC CONDUIT AND
[C076]	[C077]	[C078]	[C079]	[C080]	[C081]	[C082]	[C083]	[C084]	[C085]	[C086]	[C087]	[C088]	[C089]	[C090]	[C091]	[C092]	[C003]	[C094]	CONDUCTOR SCHEDULE
-[	ЛМ	'S"	(F	ΈΛ	1 1	)													EXAMPLE

