

CITY OF TOLEDO

LEWIS COUNTY

WASHINGTON

WATER AND SEWER IMPROVEMENTS

SCHEDULE A - WATER
SCHEDULE B - SEWER

60% PLANSET

CITY OFFICIALS

STEVE DOBOSH
Mayor

EMILY MORGAN

RON NEUMANN
City Council

CAROL HILL

GLEND A FORGA

City Council

GUY SPRATT

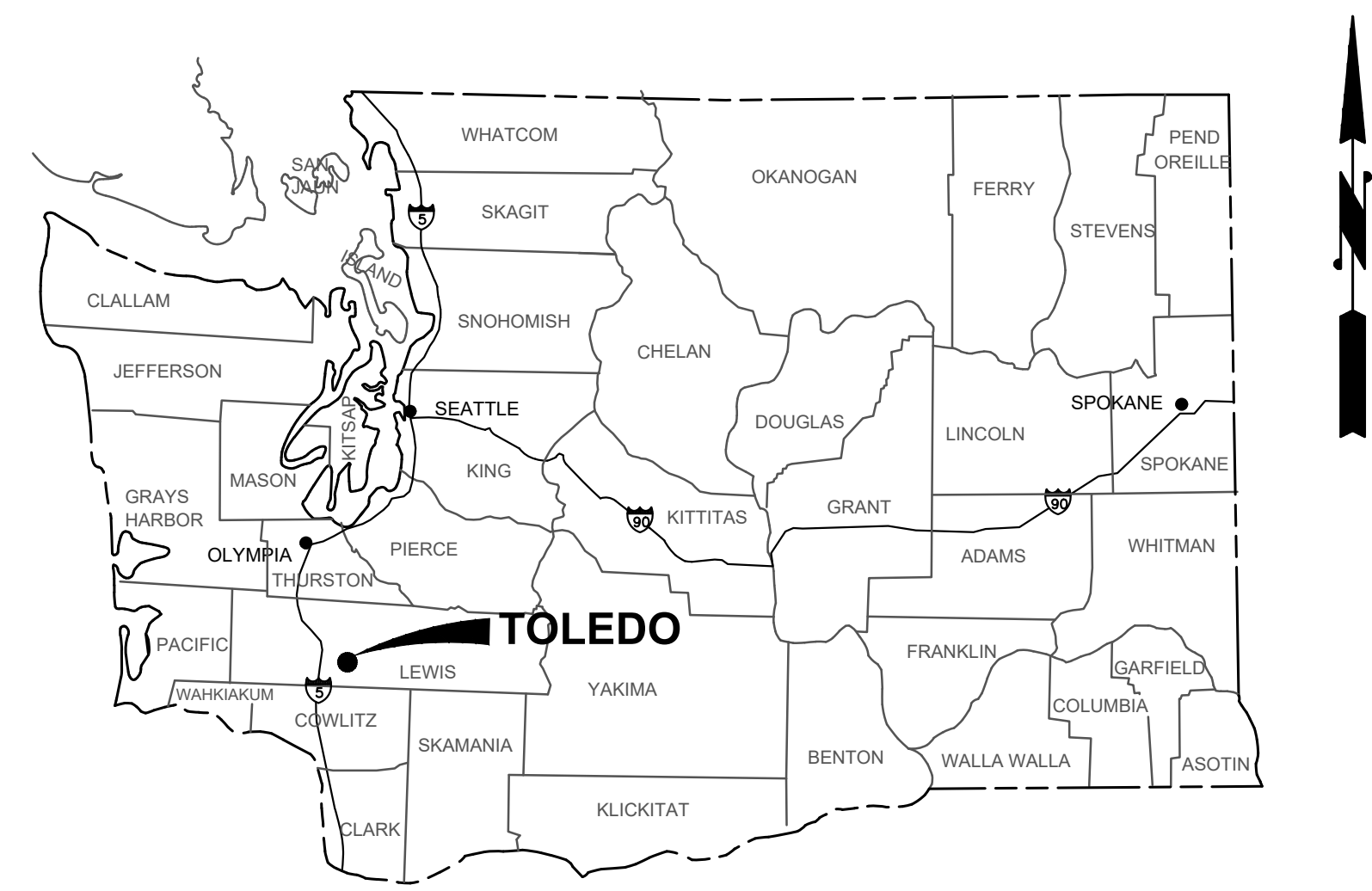
JON CRAVENS
PUBLIC WORKS ASSISTANT

MICHELLE WHITTEN
CITY MANAGER

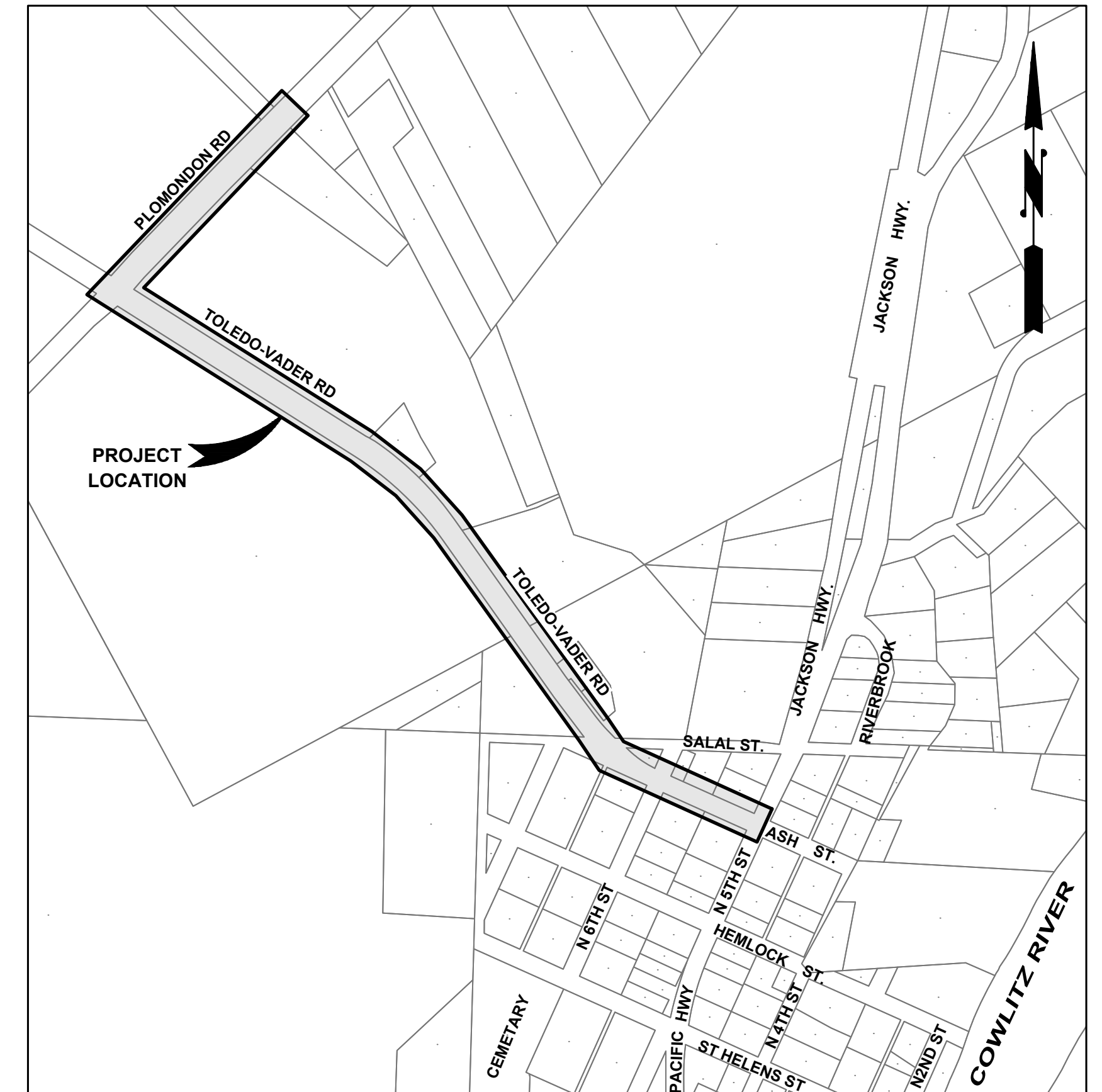


JANUARY 2022
G&O #20227.00

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C-4B	GRAVITY SEWER PLAN AND PROFILE STA 22+00 TO 26+00
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C-9B	GRAVITY SEWER PLAN AND PROFILE STA 44+00 TO 48+00
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VICINITY MAP
NOT TO SCALE

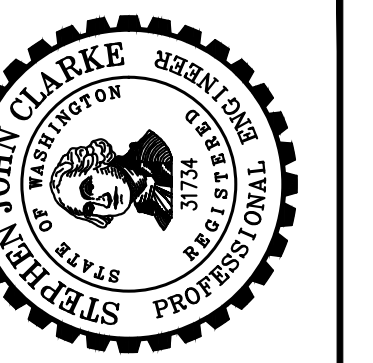


LOCATION MAP
SCALE: 1" = 400'
S, T, R: S18 T11N R1W AND S7 T11N R1W



DATE: JAN 2022
DRAWN: JPW
CHECKED: SLG
APPROVED: JMH

60% PLANSET



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
VICINITY AND LOCATION MAP
AND SHEET INDEX

SHEET: **G-1**
OF: **6**
JOB NO.: 20227.00
DWG-VIC_SHT-INDEX

ABBREVIATIONS

AVE	AVENUE
AC	ASBESTOS CEMENT PIPE
ADJ	ADJUST
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ANGLE POINT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS ASSEMBLY
ASSY	BLIND FLANGE
BF	BUILDING
BLDG	BLOCK
BLK	BLOW OFF
BO	BEGINNING OF PROJECT
BOP	BEGIN VERTICAL CURVE ELEVATION
BVCE	BEGIN VERTICAL CURVE STATION
BVCS	CENTER
CTR	CORRUGATED ALUMINUM PIPE
CAP	CATCH BASIN
CB	CAST IRON
CI	CENTER LINE
CL	CLEARANCE
CLR	CORRUGATED METAL PIPE
CMP	CLEANOUT
CO	CONCRETE
CONC	CONDUIT
C	CONNECTION
CONN	CONTINUOUS
CONT	CORRUGATED POLYETHYLENE PIPE
CPEP	COUPLING
CPLG	CUBIC YARD
CY	CONTINUED
CONT	CLASS
CL	CUBIC FEET
CF	CUBIC FEET PER SECOND
CFS	DEGREE OF CURVATURE
DC	DUCTILE IRON
DI	DIAMETER
DIA	DEPARTMENT OF TRANSPORTATION
DOT	DIMENSION
DIM	DRAWING(S)
DWGS	DRAIN
E	EAST
E	EACH
EA	ELEVATION
EL	ELECTRICAL
ELEC	EDGE OF ASPHALT
EOA	END OF PROJECT
EOP	END VERTICAL CURVE ELEVATION
EVCE	END VERTICAL CURVE STATION
EVCS	EXISTING
EXIST	FIGURE
FIG	FINISHED
FIN	FLANGE
FL	FEET
FT	GAUGE
GA	GALVANIZED
GALV	GALVANIZED IRON
GI	GATE VALVE
GV	HIGH DENSITY POLYETHYLENE PIPE
HDPE	INSIDE DIAMETER
ID	INVERT ELEVATION
IE	INVERT
IN	INCH
IN	LENGTH
L	POUND
LB	LINEAR FEET
LF	MAXIMUM
MAX	MANUFACTURER
MFR	MANHOLE
MH	MINIMUM
MIN	MECHANICAL JOINT
MJ	MISCELLANEOUS
MISC	NORTH
N	NUMBER
NO	NOT TO SCALE
NTS	NO STEEPER THAN
NST	ON CENTER
OC	OUTSIDE DIAMETER
OD	POINT OF INTERSECTION
PI	POWER POLE
PP	POINT OF VERTICAL INTERSECTION
PVI	PLAIN END
PE	PERFORATED
PERF	POLYVINYL CHLORIDE
PVC	PAVEMENT
PVMT	POINT OF VERTICAL TANGENT
PVT	POINT OF CURVATURE
PC	POINT OF TANGENCY
PT	QUANTITY
QTY	RETAINING
RET	RAILROAD
RR	RADIUS
R	REDUCER
RED	REINFORCE
REINF	REQUIRED
REQD	RIGHT-OF-WAY
RW	SLOPE
SL	SOUTH
S	SCHEDULE
SCH	SQUARE FEET
SF	SHEET
SHT	SPECIFICATIONS
SPECS	SQUARE
SQ	STATION
STA	STANDARD
STD	THRUST BLOCK
TB	TOP OF CURB
TC	TELEPHONE
TEL	TEMPORARY EROSION AND SEDIMENT CONTROL THREADED
TESC	THROUGH
THRD	TYPICAL
THRU	VERTICAL
TYP	WEST
VERT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
W	WITH
WSDOT	WITHOUT
W	
W/O	

LINETYPES

EXISTING	PROPOSED	DESCRIPTION
SURFACE FEATURES		
		CURB (TYPE AS NOTED)
		ASPHALT PAVEMENT
		GRAVEL SURFACING
		CONCRETE SURFACING
		CEMENT CONC. SIDEWALK
		GUARD RAIL
		FENCE/RAILING (TYPE AS NOTED)
		SHRUB/TREE/VEGETATION LINE
		EDGE OF LANDSCAPING
SURVEY		
		RIGHT-OF-WAY LINE
		CENTERLINE OF RIGHT-OF-WAY
		CENTERLINE OF CONSTRUCTION
		PROPERTY LINE
		CONTOUR LINE
		SAWCUT LINE (APPROXIMATE LOCATION)
UTILITIES		
		OVERHEAD UTILITIES
		BURIED ELECTRICAL
		BURIED TELEPHONE/COMMUNICATIONS
		GAS MAIN (SIZE AS NOTED)
		WATER MAIN (SIZE AS NOTED)
		SANITARY SEWER MAIN (SIZE AS NOTED)
		STORM DRAIN (SIZE AS NOTED)
		CULVERT (SIZE & TYPE AS NOTED)

WATER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CAP/PLUG
		COUPLING/ADAPTER
		GUARD POST
		REDUCER
		THRUST BLOCK
		WATER METER
FIRE HYDRANT		
		FIRE HYDRANT (2-NOZZLE)
		FIRE HYDRANT (3-NOZZLE)
JOINTS		
		FLANGE/BLIND FLANGE
		MECHANICAL JOINT
VALVES		
		AIR RELIEF VALVE
		BLOW-OFF VALVE
		GATE VALVE

GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2020 EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, UNLESS OTHERWISE SPECIFICALLY NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES IN ORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES ARE PROPERLY LOCATED, SECURED, AND/OR PROTECTED. BURIED UTILITIES (WHERE KNOWN) ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. NOTIFY THE UNDERGROUND UTILITIES LOCATE CENTER: 1-800-424-5555.
- ON-SITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN CONFORMANCE TO THE REQUIREMENTS OF THESE PLANS, CONTRACT SPECIFICATIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, ANY ADDENDA, CHANGE ORDERS, AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.
- WHEREVER PLANS REFER TO "SAWCUT" OF ASPHALT CONCRETE PAVEMENT OR CONCRETE SURFACE, THE CONTRACTOR SHALL PERFORM A "NEAT LINE CUT" PER SPECIFICATIONS.

GAS/POWER/TELEPHONE SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		GAS METER
		GAS VALVE
		POWER VAULT (SIZE VARIES)
		UTILITY POLE
		UTILITY POLE ANCHOR
		UTILITY PEDESTAL
		TELEPHONE VAULT (SIZE VARIES)

SANITARY/STORM SEWER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAIN MANHOLE/TYPE 2 CATCH BASIN (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		STORM DRAIN CATCH BASIN, CONCRETE INLET, OR YARD/AREA DRAIN (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		SANITARY SEWER MANHOLE (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		CLEAN OUT (SAN. SEWER OR STORM)

SURVEY SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROL POINT
		MONUMENT (IN CASE)
		MONUMENT (SURFACE)

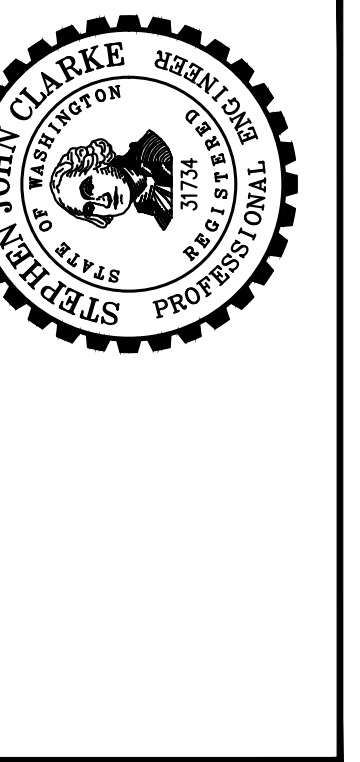
SURFACE FEATURES/LANDSCAPING

EXISTING	PROPOSED	DESCRIPTION
		BUILDING
		BUILDING EAVES
		MAIL BOX (NOTED)
		SIGN
		SHRUB
		TREE (CONIFER)
		TREE (DECIDUOUS)
		EDGE OF CREEK/STREAM OR OHWM



DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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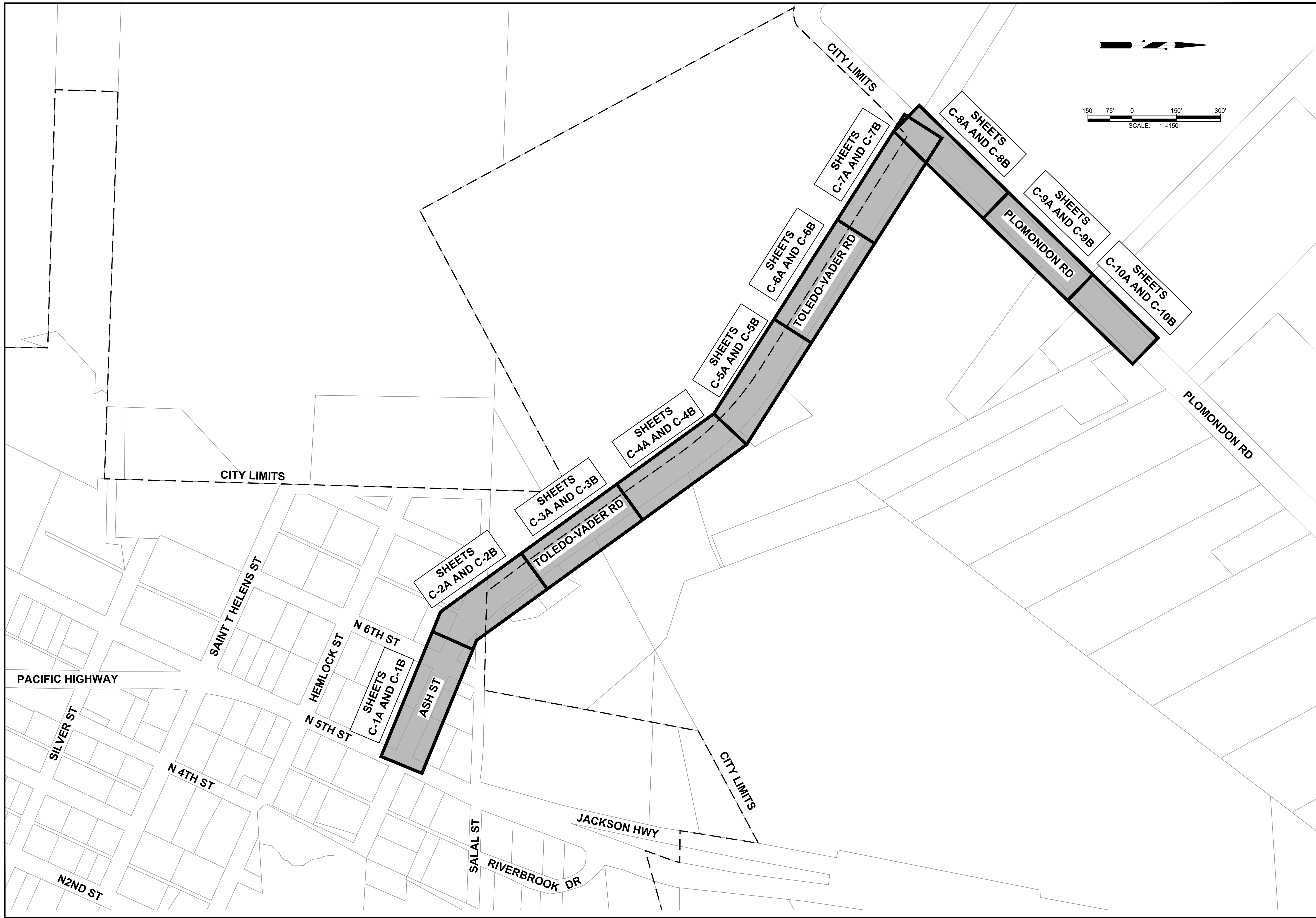
60% PLANSET	DATE	APPD
	REVISION	No.



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
ABBREVIATIONS, SYMBOL LEGEND
AND GENERAL NOTES

SHEET: G-2
OF: 6
JOB NO.: 20227.00
DWG LEGEND

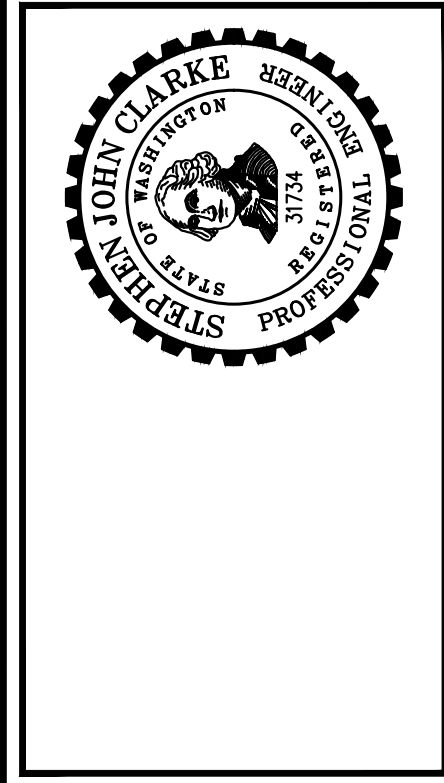
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARRIAGE DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
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APPROVED:	JMH

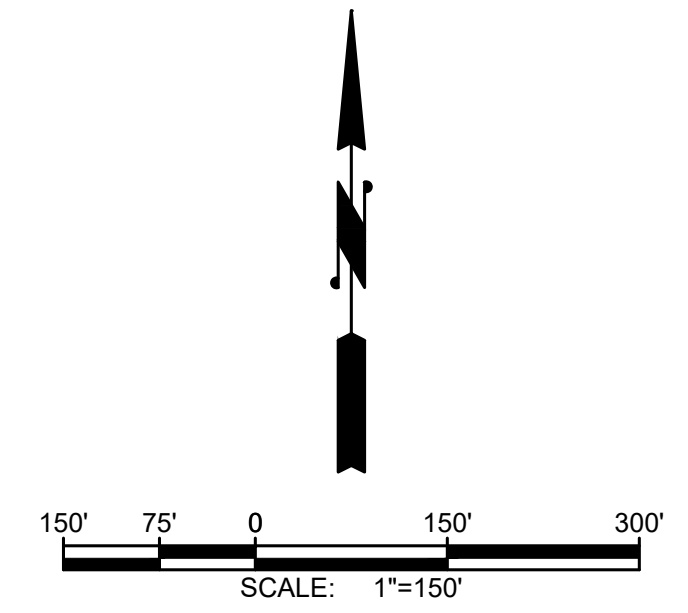
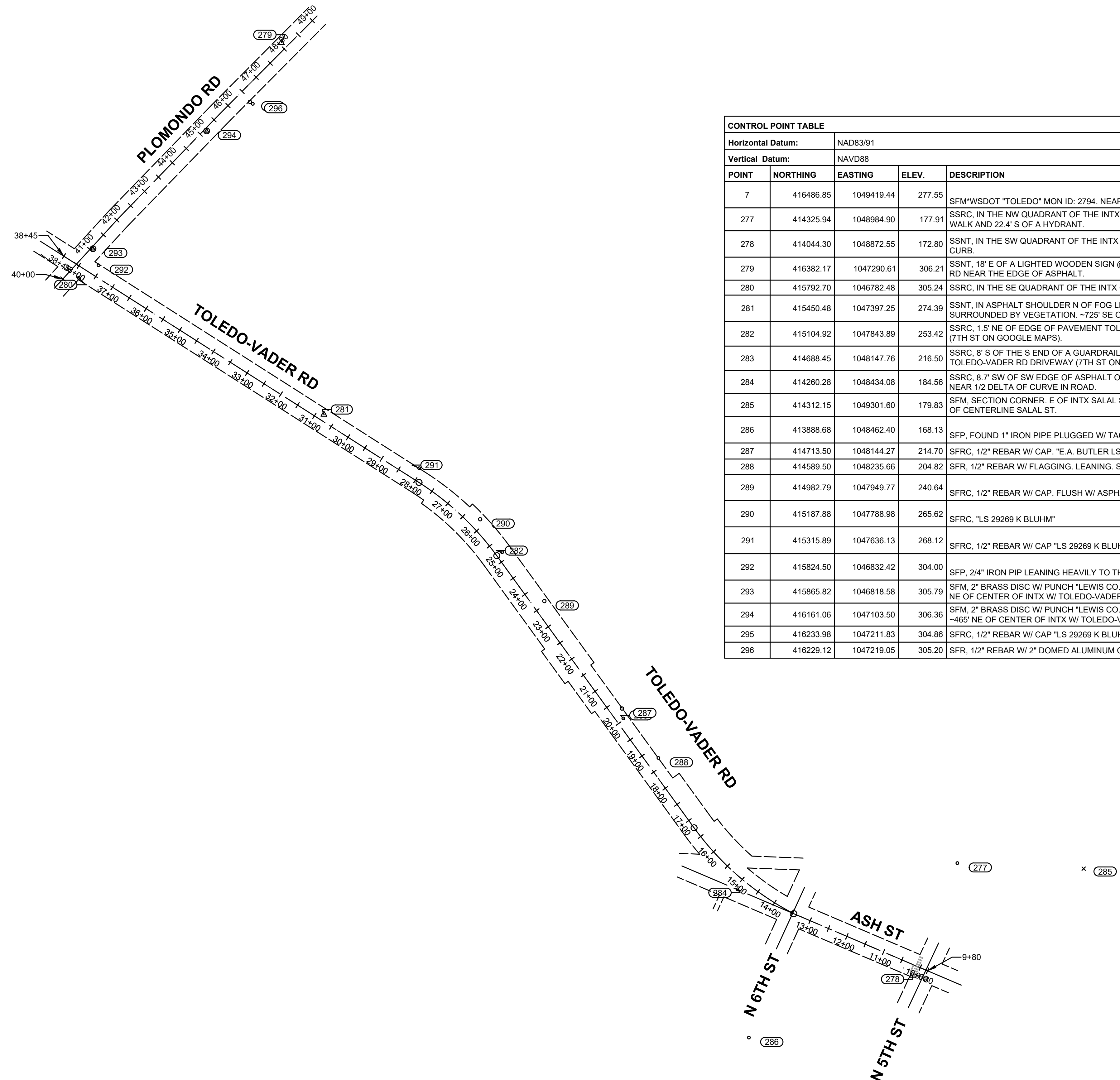
No.	REVISION	DATE	APPD
	60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
PROJECT LOCATION MAP

SHEET:	G-3
OF:	25
JOB NO.:	20227.00
DWG\LOC_MAP	

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RIGHT-OF-WAY DISCLAIMER
 The right-of-way and/or property lines shown herein are based on available information, not on a surveyed location and are only approximate.

CONTROL POINT TABLE				
Horizontal Datum:		NAD83/91		
Vertical Datum:		NAVD88		
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
7	416486.85	1049419.44	277.55	SFM"WSDOT "TOLEDO" MON ID: 2794. NEAR TOLEDO HIGH SCHOOL READER BOARD.
277	414325.94	1048984.90	177.91	SSRC, IN THE NW QUADRANT OF THE INTX OF SALAL ST & N 5TH ST. 6' SW OF A N-S CULVERT. 5' SE OF THE END OF THE WALK AND 22.4' S OF A HYDRANT.
278	414044.30	1048872.55	172.80	SSNT, IN THE SW QUADRANT OF THE INTX OF N 5TH ST & ASH ST. NEAR THE 1/2 DELTA OF CURVE. 1.9' E OF THE FACE OF CURB.
279	416382.17	1047290.61	306.21	SSNT, 18' E OF A LIGHTED WOODEN SIGN @ THE ENTRANCE TO TOLEDO TEL (183 PLOMONDON RD). N OF TOLEDO-VADER RD NEAR THE EDGE OF ASPHALT.
280	415792.70	1046782.48	305.24	SSRC, IN THE SE QUADRANT OF THE INTX OF TOLEDO-VADER RD & PLOMONDON RD.
281	415450.48	1047397.25	274.39	SSNT, IN ASPHALT SHOULDER N OF FOG LINE OF TOLEDO-VADER RD. EVEN WITH ONLY POWER POLE IN THIS AREA NOT SURROUNDED BY VEGETATION. ~725' SE OF CENTER OF INTX W/ PLOMONDON RD.
282	415104.92	1047843.89	253.42	SSRC, 1.5' NE OF EDGE OF PAVEMENT TOLEDO-VADER RD. ~500' NW OF DRIVEWAY TO 562 TOLEDO-VADER RD DRIVEWAY (7TH ST ON GOOGLE MAPS).
283	414688.45	1048147.76	216.50	SSRC, 8' S OF THE S END OF A GUARDRAIL ON THE E EDGE OF TOLEDO-VADER RD. ACROSS FROM THE DRIVEWAY TO 562 TOLEDO-VADER RD DRIVEWAY (7TH ST ON GOOGLE MAPS).
284	414260.28	1048434.08	184.56	SSRC, 8.7' SW OF SW EDGE OF ASPHALT OF TOLEDO-VADER RD. ~140' NW OF N 6TH ST INTX. E OF A RED METAL BUILDING NEAR 1/2 DELTA OF CURVE IN ROAD.
285	414312.15	1049301.60	179.83	SFM, SECTION CORNER, E OF INTX SALAL ST & RIVERBROOK DR. 2" BRASS LEWIS COUNTY SURFACE MONUMENT. 15.5' N OF CENTERLINE SALAL ST.
286	413888.68	1048462.40	168.13	SFP, FOUND 1" IRON PIPE PLUGGED W/ TACK. NE CORNER HEMLOCK ST & N 6TH ST.
287	414713.50	1048144.27	214.70	SFRC, 1/2" REBAR W/ CAP. "E.A. BUTLER LS 18896 "
288	414589.50	1048235.66	204.82	SFR, 1/2" REBAR W/ FLAGGING. LEANING. SHOT AT BASE.
289	414982.79	1047949.77	240.64	SFRC, 1/2" REBAR W/ CAP. FLUSH W/ ASPHALT. "LS 29269 K. BLUHM."
290	415187.88	1047788.98	265.62	SFRC, "LS 29269 K BLUHM"
291	415315.89	1047636.13	268.12	SFRC, 1/2" REBAR W/ CAP "LS 29269 K BLUHM."
292	415824.50	1046832.42	304.00	SFP, 2/4" IRON PIP LEANING HEAVILY TO THE E. SHOT AT BASE.
293	415865.82	1046818.58	305.79	SFM, 2" BRASS DISC W/ PUNCH "LEWIS CO. 45+63.74" IN THE CENTERLINE OF NORTHBOUND LANE OF PLOMONDON RD. ~55' NE OF CENTER OF INTX W/ TOLEDO-VADER RD.
294	416161.06	1047103.50	306.36	SFM, 2" BRASS DISC W/ PUNCH "LEWIS CO. 41+53.45" IN THE CENTERLINE OF NORTHBOUND LANE OF PLOMONDON RD. ~465' NE OF CENTER OF INTX W/ TOLEDO-VADER RD.
295	416233.98	1047211.83	304.86	SFRC, 1/2" REBAR W/ CAP "LS 29269 K BLUHM." 0.15' ABOVE GRADE.
296	416229.12	1047219.05	305.20	SFR, 1/2" REBAR W/ 2" DOMED ALUMINUM CAP W/ PUNCH.

Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 2102 CARBONADE DRIVE SW, BLDG. 1
 OLYMPIA, WA 98502 • (360) 292-7481

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60% PLANSET		DATE	APPD
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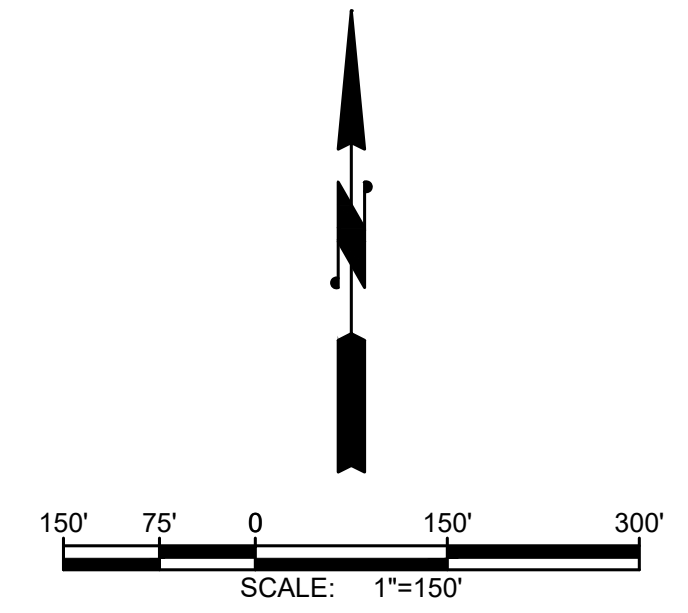
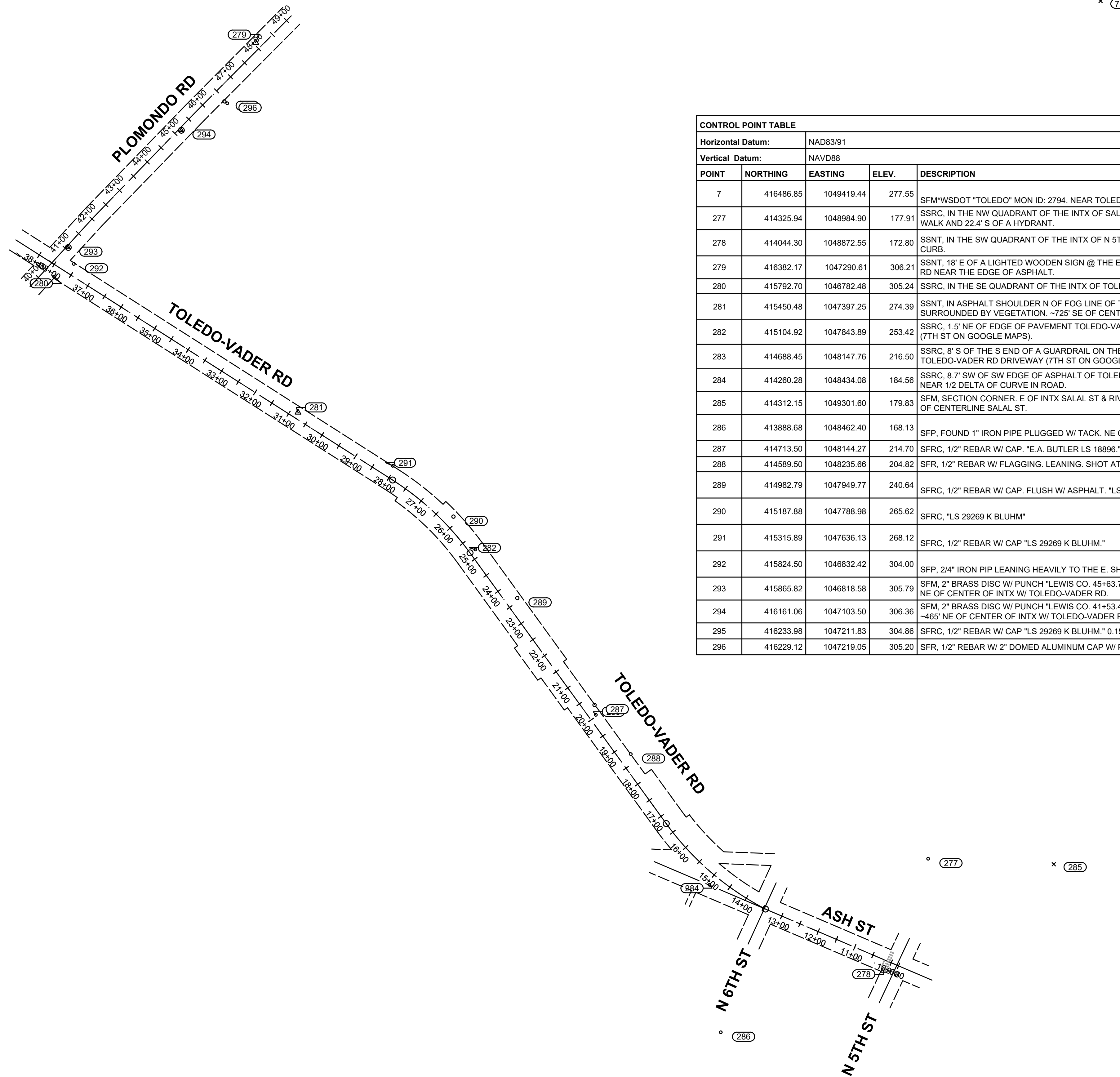
CITY OF TOLEDO
 LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
 SURVEY CONTROL
 WATER AND SEWER

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811
 EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET:	G-4AB
OF:	6
JOB NO.:	20227.00
DWG SV_CTRL	

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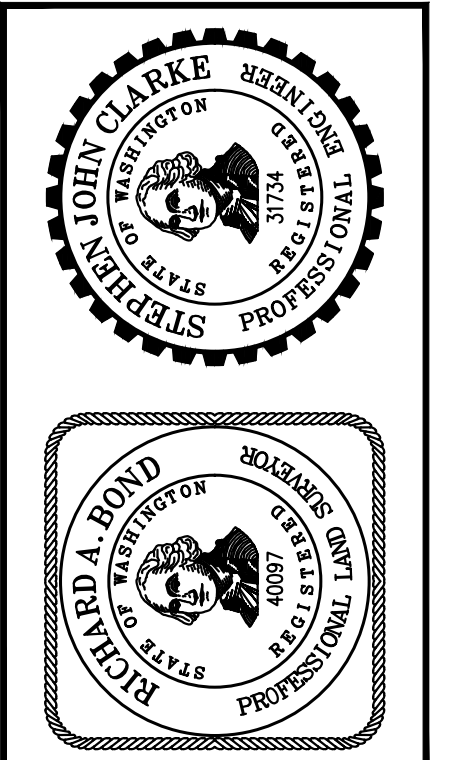
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291	415315.89	1047636.13	268.12	SFRC, 1/2" REBAR W/ CAP "LS 29269 K BLUHM."
292	415824.50	1046832.42	304.00	SFP, 2/4" IRON PIP LEANING HEAVILY TO THE E. SHOT AT BASE.
293	415865.82	1046818.58	305.79	SFM, 2" BRASS DISC W/ PUNCH "LEWIS CO. 45+63.74" IN THE CENTERLINE OF NORTHBOUND LANE OF PLOMONDON RD. ~55' NE OF CENTER OF INTX W/ TOLEDO-VADER RD.
294	416161.06	1047103.50	306.36	SFM, 2" BRASS DISC W/ PUNCH "LEWIS CO. 41+53.45" IN THE CENTERLINE OF NORTHBOUND LANE OF PLOMONDON RD. ~465' NE OF CENTER OF INTX W/ TOLEDO-VADER RD.
295	416233.98	1047211.83	304.86	SFRC, 1/2" REBAR W/ CAP "LS 29269 K BLUHM." 0.15' ABOVE GRADE.
296	416229.12	1047219.05	305.20	SFR, 1/2" REBAR W/ 2" DOMED ALUMINUM CAP W/ PUNCH.



DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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60% PLANSET	DATE	APPD
	REVISION	
	No.	

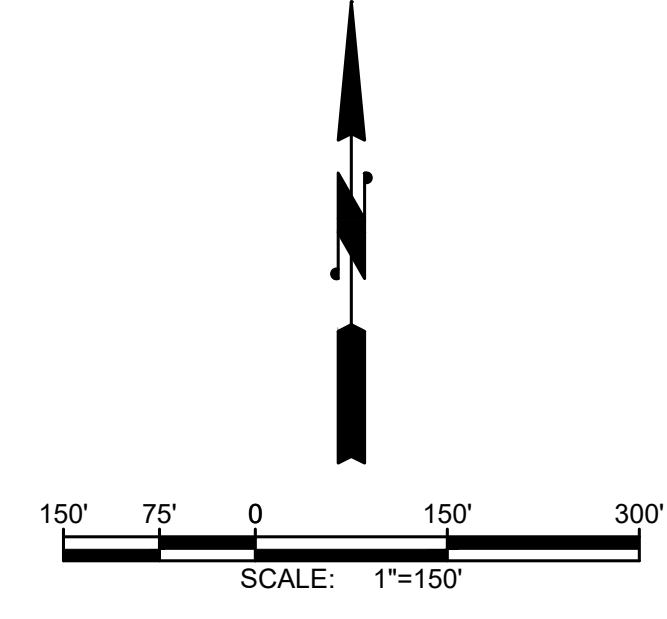


CITY OF TOLEDO
 LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
 SURVEY CONTROL RESERVOIR
 AND BOOSTER STATION SITE

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811
 EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET:	G-5C
OF:	6
JOB NO.:	20227.00
DWG.SV_CTRL-RSRV	



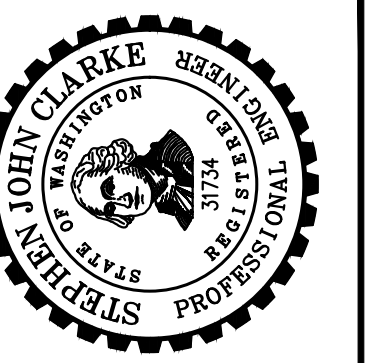
RIGHT-OF-WAY DISCLAIMER

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DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

No.	REVISION	DATE	APPD
	60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
PROCESS FLOW DIAGRAM

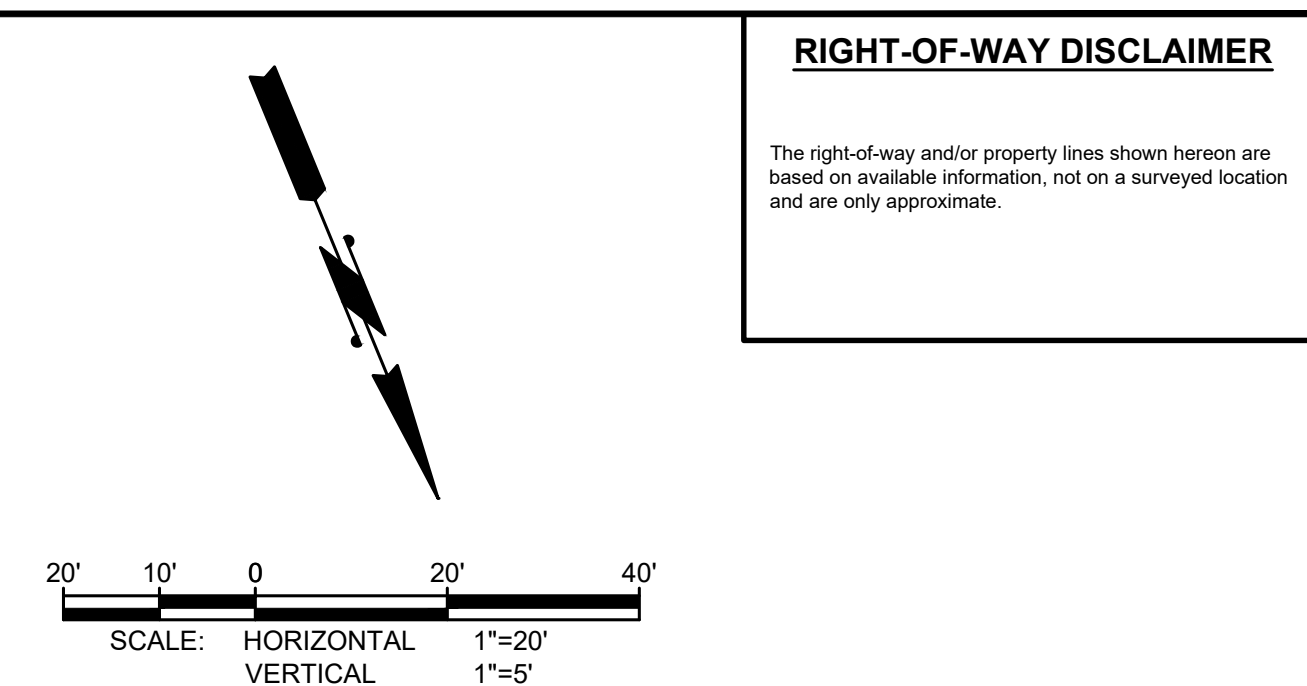
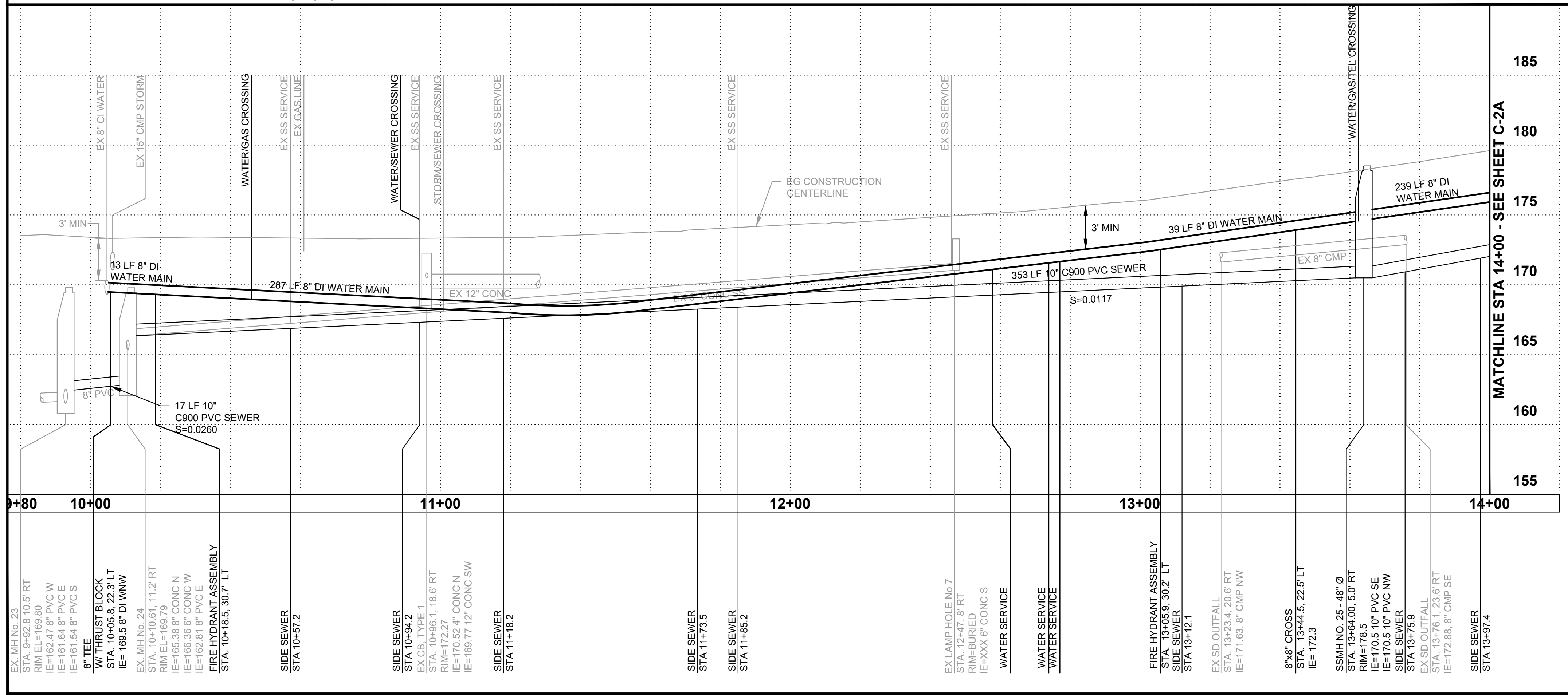
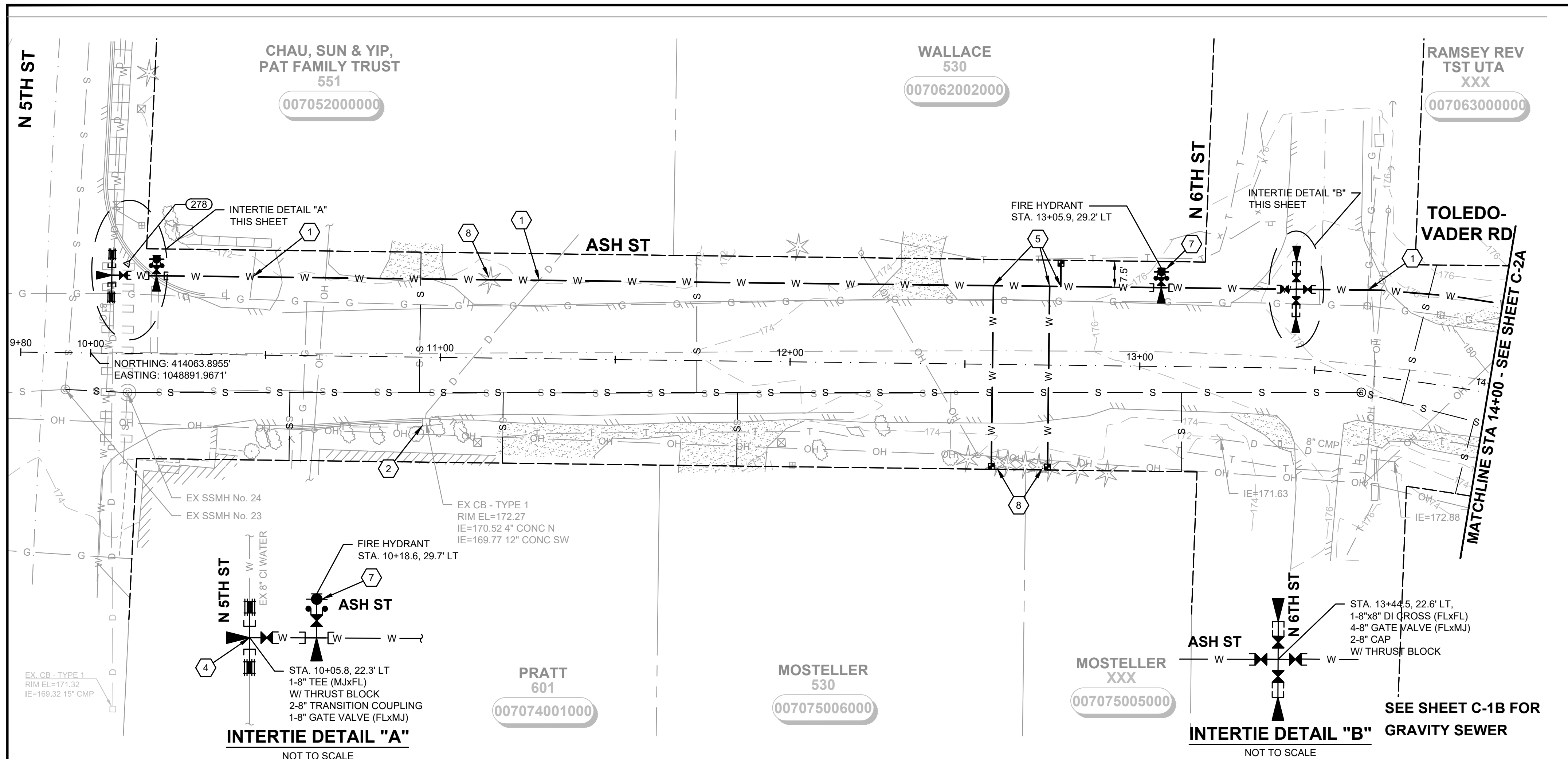
BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

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SHEET:	G-6C
OF:	6
JOB NO.:	20227.00
DWG	PRO_FLOW

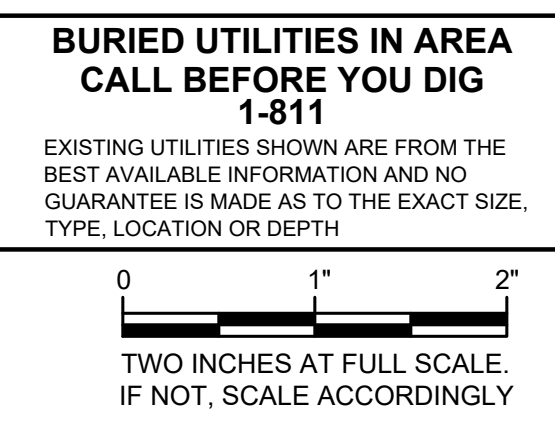
M:\TOLEDO\2022\00 Task 3 Water and Sewer Improvements\PlanSet\Civil\WAT_1_PLN_PRJ.dwg, 1/14/2022 4:16 PM, ARTEMIS ZAFARI



RIGHT-OF-WAY DISCLAIMER
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- GENERAL NOTES:**
- MINIMUM WATER MAIN DEPTH OF COVER SHALL BE 3' OR DEEPER AS SHOWN ON THE PROFILE. IF A MINIMUM OF 3' CANNOT BE PROVIDED, INSTALL NEW WATER MAIN UNDER EXISTING UTILITY. EXTRA DEPTH MAY BE REQUIRED. CONTRACTOR TO VERIFY.
 - MAINTAIN A CONTINUOUS POSITIVE GRADE BETWEEN LOW POINT AND AIR VACS AT HIGH POINT AS SHOWN ON THE PLANS.
 - SCHEDULE WATER SHUT DOWN WITH THE CITY OF TOLEDO.
 - POTHOLE TO DETERMINE EXACT LOCATION OF THE UTILITIES PRIOR TO COMMENCING THE WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE ON SHALL BE REPORTED TO THE OWNER PRIOR TO COMMENCING THE WORK.
 - USE CAUTION DURING CONSTRUCTION NEAR EXISTING UTILITIES.
 - PIPE DISTANCES ARE MEASURED FROM FITTING TO FITTING.
 - LIMIT DEFLECTION OF PIPE TO MANUFACTURERS' STANDARDS.
 - MAINTAIN DRAINAGE TO EXISTING CATCH BASINS.
 - WATER MAIN SHALL BE INSTALLED UNDER STORM SYSTEM. INSTALL VERTICAL BENDS AS NECESSARY.
 - PROTECT EXISTING LANDSCAPING.

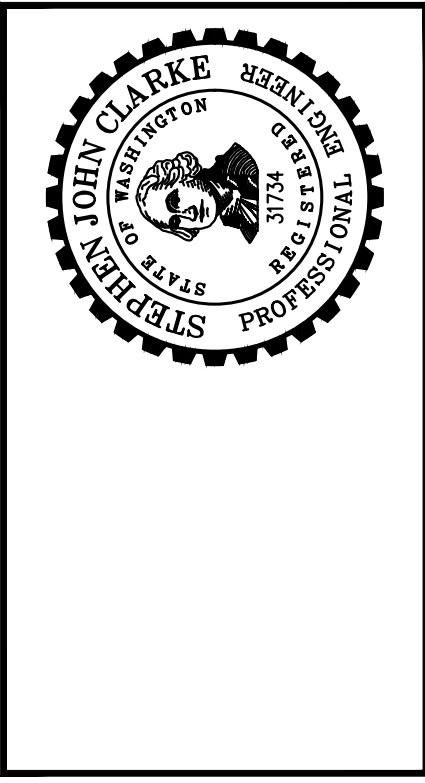
- WATER NOTES:**
- CAUTION: POTENTIAL UTILITY CONFLICT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH OF EXISTING UTILITY. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING UTILITY SHALL BE FIXED AND/OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
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 - INSTALL NEW METER BOX AND SERVICE LINE PER DETAIL 2 ON SHEET CD-2.
 - REMOVE AND REINSTALL EXISTING SIGN/FENCE/LANDSCAPING/WALL (AS REQUIRED). COORDINATE WITH PROPERTY OWNER AND ENGINEER.
 - INSTALL NEW FIRE HYDRANT ASSEMBLY PER DETAIL 1 ON SHEET CD-3.
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 - REMOVE AND REINSTALL EXISTING MAILBOX(ES) PER DETAIL X ON SHEET XX.
 - COMBINATION AIR VALVE PER CITY STANDARD DETAIL 6 ON SHEET CD-3.
 - INSTALL CDF PER DETAIL 3 ON SHEET CD-4.



Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 2102 CARBONADE DRIVE SW, BLDG. 1
 OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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NO.	REVISION	DATE	APPD
60% PLANSET			

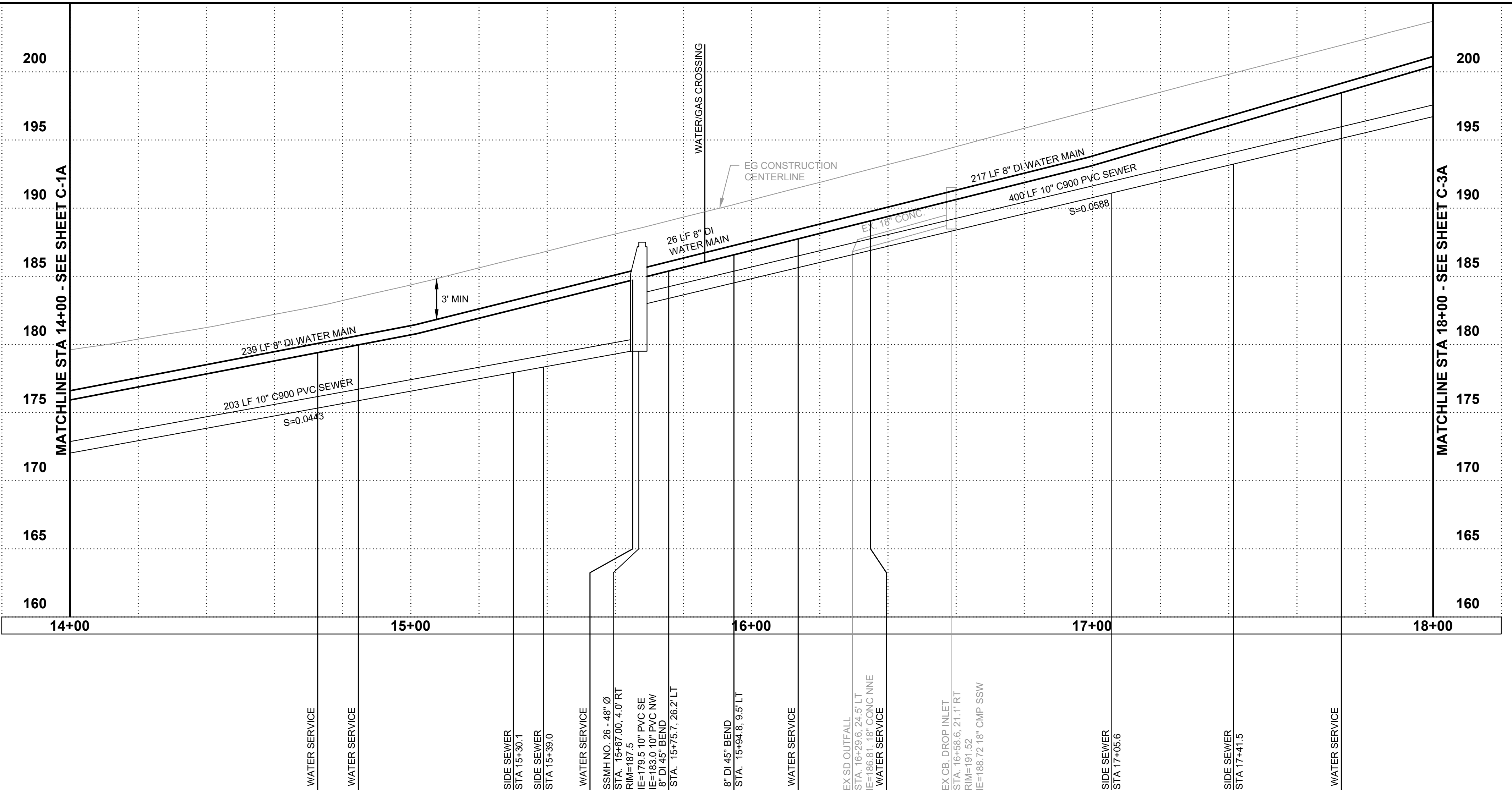
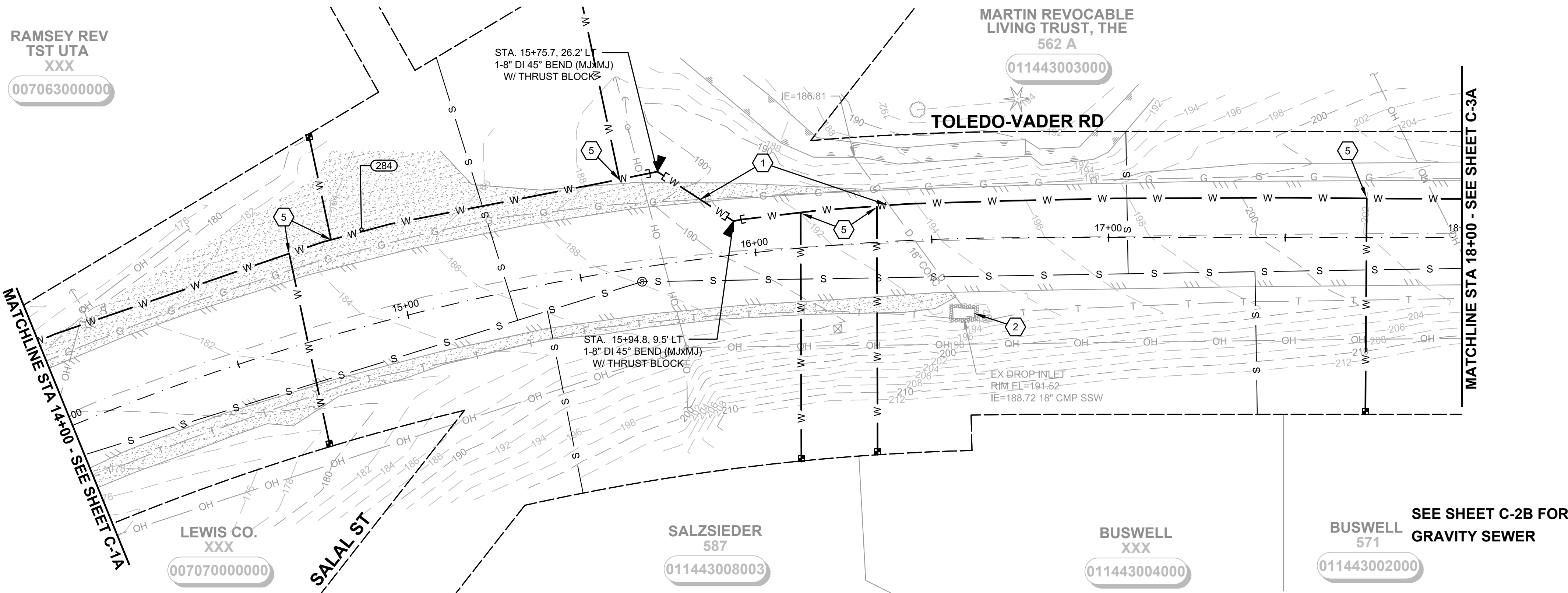


CITY OF TOLEDO
 LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
 WATER MAIN PLAN AND PROFILE
 STA 10+00 TO 14+00

SHEET: **C-1A**
 OF: **25**

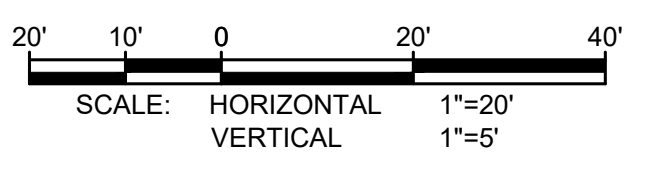
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 DWG-WAT_1_PLN_PRJ

RAMSEY REV
TST UTA
XXX
007063000000



RIGHT-OF-WAY DISCLAIMER

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GENERAL NOTES:

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2. MAINTAIN A CONTINUOUS POSITIVE GRADE BETWEEN LOW POINT AND AIR VACS AT HIGH POINT AS SHOWN ON THE PLANS.
3. SCHEDULE WATER SHUT DOWN WITH THE CITY OF TOLEDO.
4. POTHOLE TO DETERMINE EXACT LOCATION OF THE UTILITIES PRIOR TO COMMENCING THE WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE ON SHALL BE REPORTED TO THE OWNER PRIOR TO COMMENCING THE WORK.
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7. LIMIT DEFLECTION OF PIPE TO MANUFACTURERS' STANDARDS.
8. MAINTAIN DRAINAGE TO EXISTING CATCH BASINS.
9. WATER MAIN SHALL BE INSTALLED UNDER STORM SYSTEM. INSTALL VERTICAL BENDS AS NECESSARY.
10. PROTECT EXISTING LANDSCAPING.

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2. INSTALL STORM DRAIN INLET PROTECTION PER DETAIL 3, SHEET CD-1.
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5. INSTALL NEW METER BOX AND SERVICE LINE PER DETAIL 2 ON SHEET CD-2.
6. REMOVE AND REINSTALL EXISTING SIGN/FENCE/LANDSCAPING/WALL (AS REQUIRED). COORDINATE WITH PROPERTY OWNER AND ENGINEER.
7. INSTALL NEW FIRE HYDRANT ASSEMBLY PER DETAIL 1 ON SHEET CD-3.
8. CLEAR AND GRUB EXISTING TREES, BRUSH, SHRUBS, DUFF, AND/OR VEGETATION. SEE THE SPECIFICATIONS.
9. REMOVE AND REINSTALL EXISTING MAILBOX(ES) PER DETAIL X ON SHEET XX.
10. COMBINATION AIR VALVE PER CITY STANDARD DETAIL 6 ON SHEET CD-3.
11. INSTALL CDF PER DETAIL 3 ON SHEET CD-4.

**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

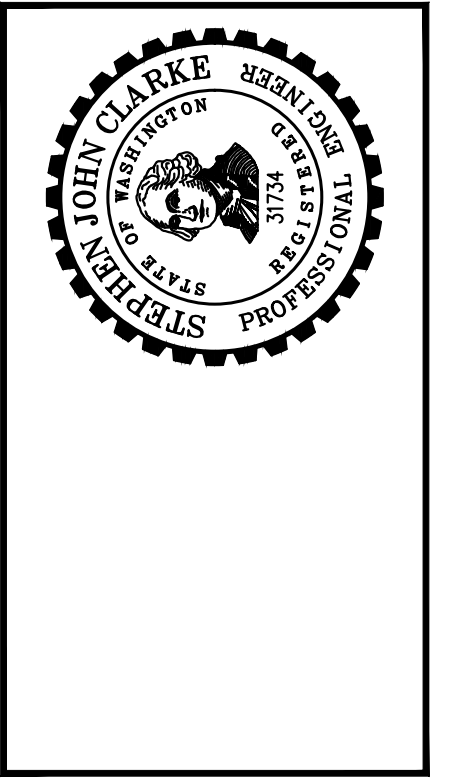
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARBONADE DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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REVISION	DATE	APPD
60% PLANSET		

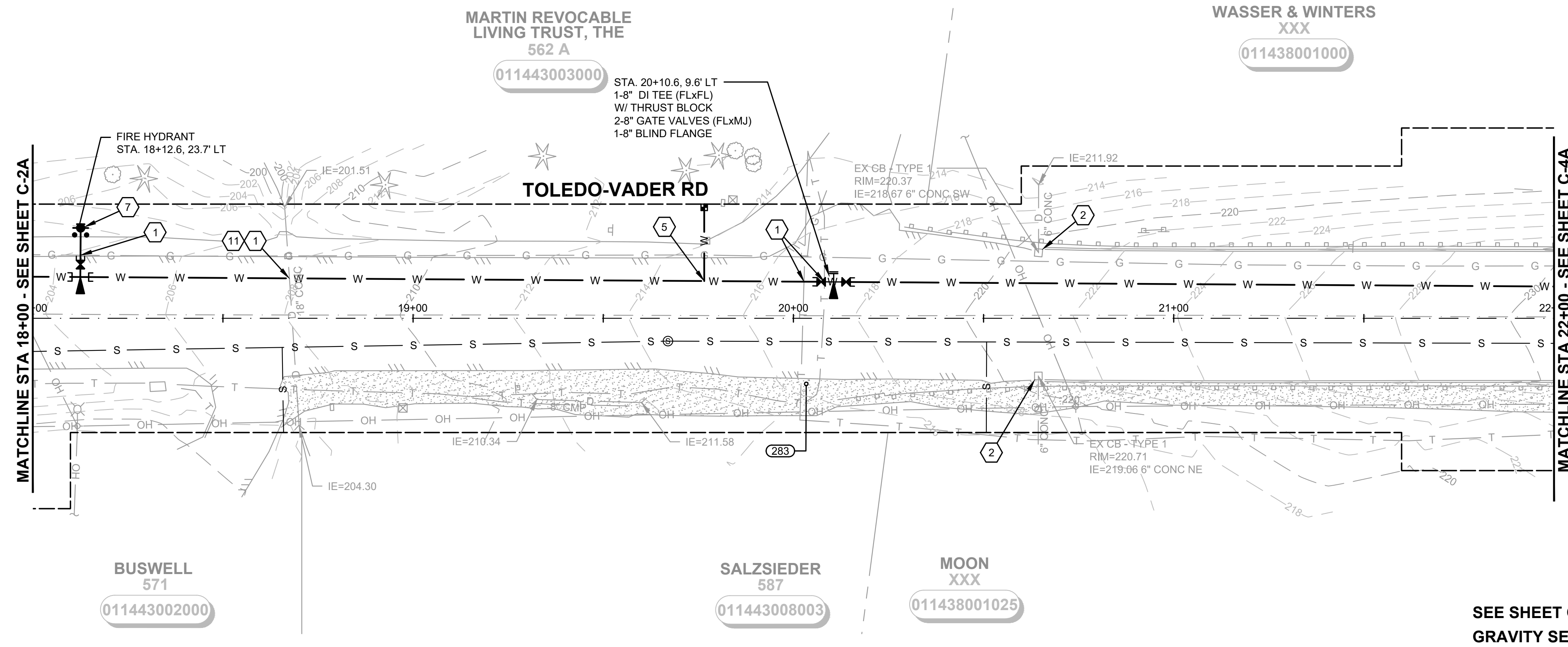


CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
**WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS**
WATER MAIN PLAN AND PROFILE
STA 14+00 TO 18+00

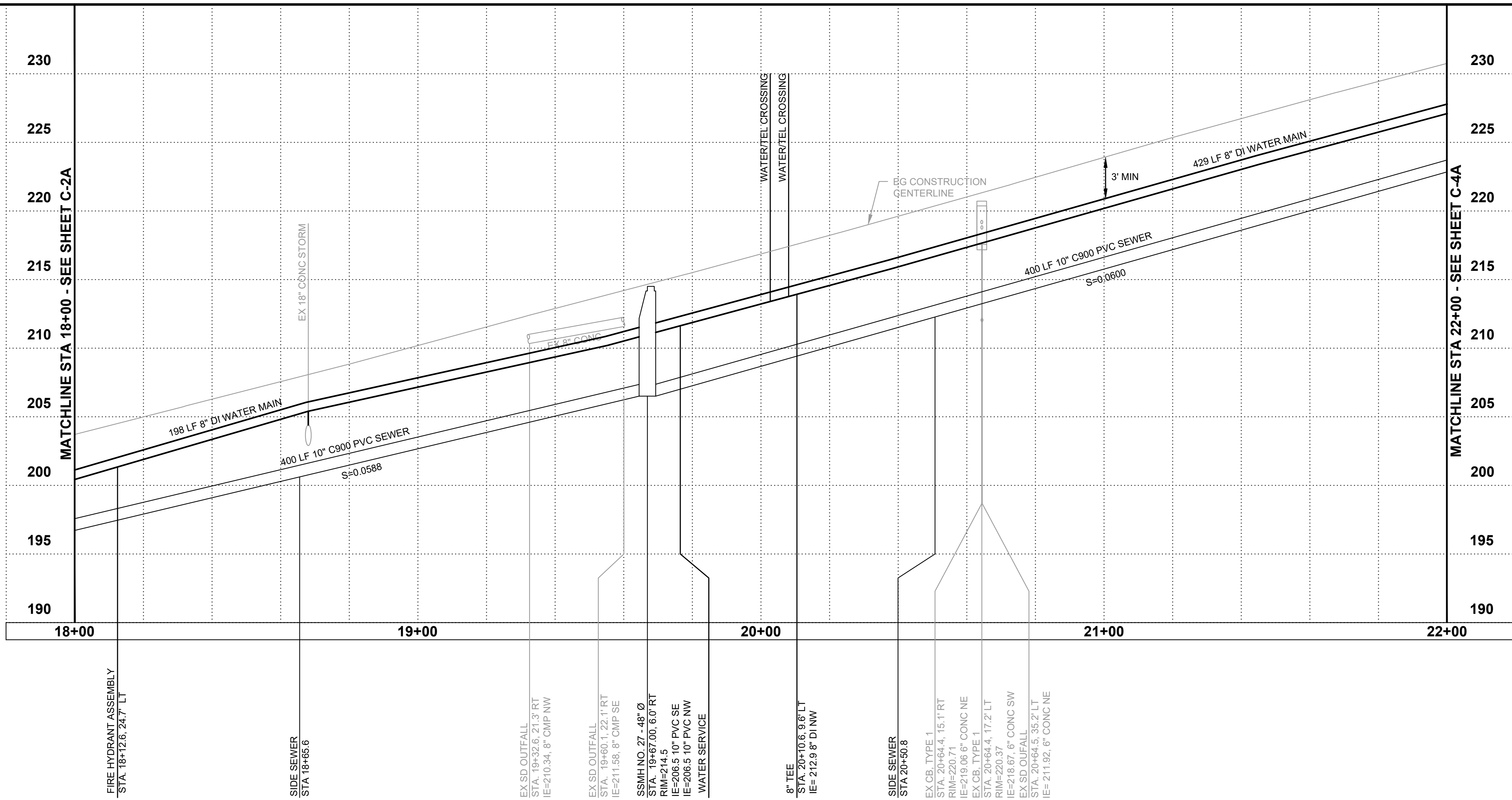
SHEET:	C-2A
OF:	25
JOB NO.:	20227.00
DWG-WAT_1_PLN_PRF	

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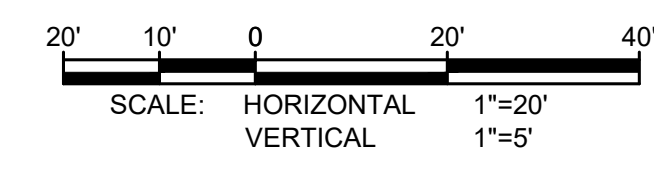
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SEE SHEET C-3B FOR GRAVITY SEWER



RIGHT-OF-WAY DISCLAIMER
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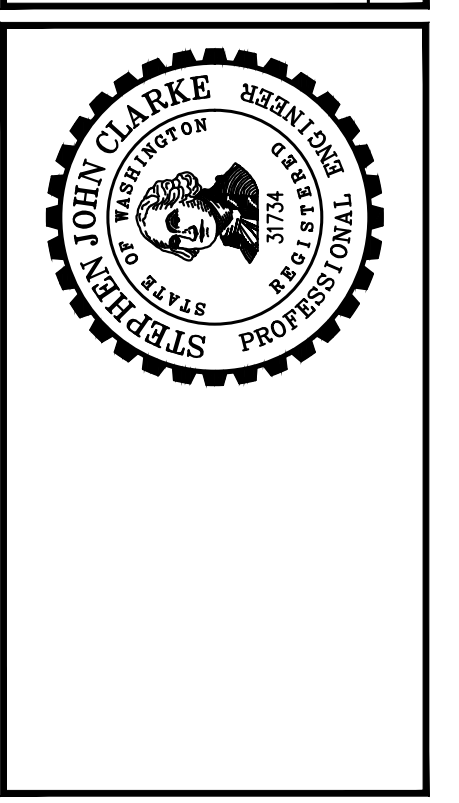
BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARROLL DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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REVISION	DATE	APPD



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
WATER MAIN PLAN AND PROFILE
STA 18+00 TO 22+00

SHEET:	C-3A
OF:	25
JOB NO.:	20227.00
DWG-WAT_1_PLN_PRJ	

WASSER & WINTERS
XXX

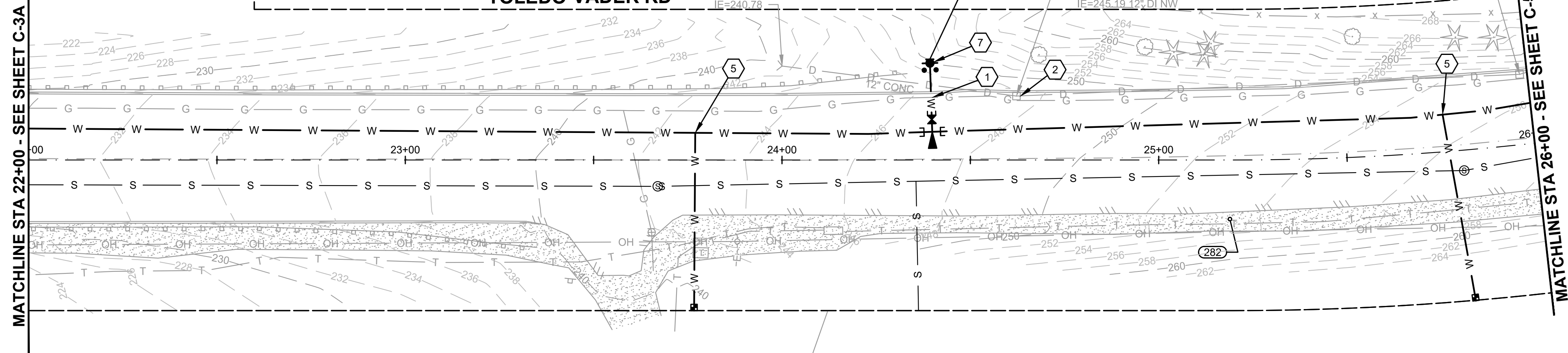
011438001000

TOLEDO-VADER RD

FIRE HYDRANT
STA. 24+39.3, 25.7' LT

EX CB - TYPE 1
RIM=247.59
IE=245.09 12" DI SE
IE=245.19 12" DI NW

EX CB - TYPE 1
RIM=254.88
IE=252.58 12" DI SE
IE=252.78 12" CONC NW



MOON
XXX

011438001025

KONIGSBERGER
176 PLOMONDO RD

011438028001

SEE SHEET C-4B FOR
GRAVITY SEWER

RIGHT-OF-WAY DISCLAIMER

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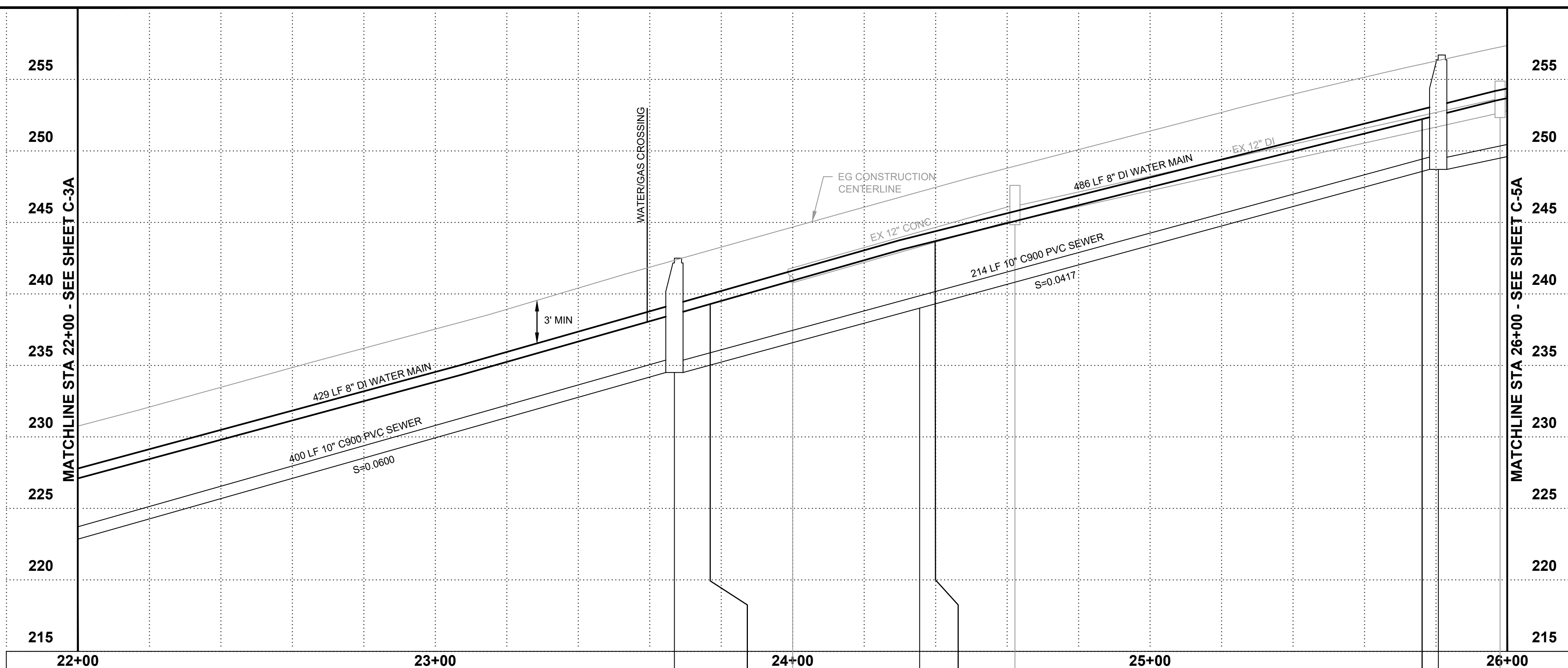


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- COMBINATION AIR VALVE PER CITY STANDARD DETAIL 6 ON SHEET CD-3.
- INSTALL CDF PER DETAIL 3 ON SHEET CD-4.



SSMH NO. 28 - 48" Ø
STA. 23+67.00, 7.0' RT
RIM=242.5
IE=230.5 10" PVC SE
IE=236.5 10" PVC NW
WATER SERVICE

EX SD OUTFALL
STA. 24+00.0, 25.0' LT
IE=240.78, 12" CONC NW

SIDE SEWER
STA. 24+35.6

FIRE HYDRANT ASSEMBLY
STA. 24+39.2, 26.7' LT

EX CB, TYPE 1
STA. 24+26.2, 17.0' LT
RIM=247.59
IE=245.09 12" DI SE
IE=245.19 12" DI NW

WATER SERVICE
SSMH NO. 29 - 48" Ø
STA. 25+60.72, 5.4' RT
RIM=256.7
IE=245.3 10" PVC SE
IE=245.3 10" PVC NW
EX CB, TYPE 1
STA. 25+66.0, 16.6' LT
RIM=254.88
IE=252.58 12" DI SE
IE=252.78 12" CONC NW

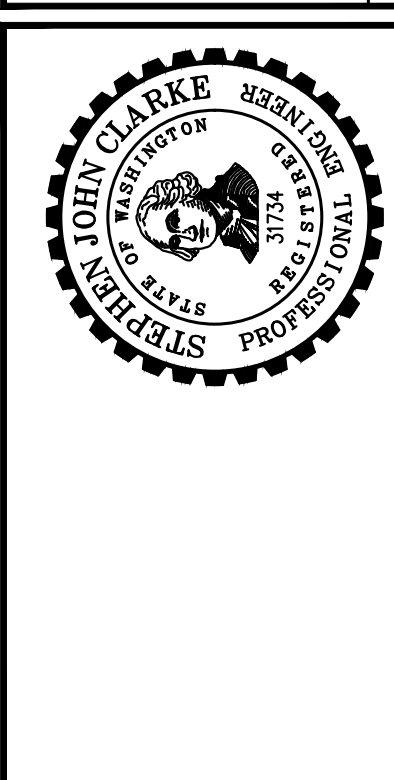
BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811

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DATE:	JAN 2022	JPW	SLG	JMH
DRAWN:				
CHECKED:				
APPROVED:				

REVISION	DATE	APPD
60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
WATER MAIN PLAN AND PROFILE
STA 22+00 TO 26+00

SHEET: C-4A
OF: 25
JOB NO.: 20227.00
DWG-WAT_1_PLN_PRF

WASSER &
WINTERS
XXX
011438001000

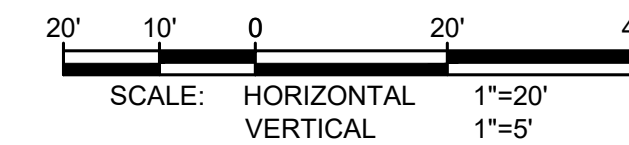
PUBLIC UTILITY
DIST 1
XXX
011438001017

MESKE
162
011438028002

SEE SHEET C-5B FOR
GRAVITY SEWER

RIGHT-OF-WAY DISCLAIMER

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GENERAL NOTES:

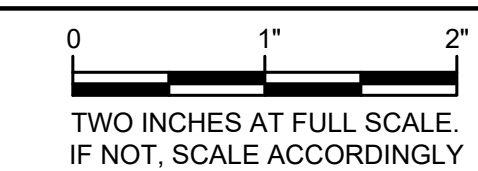
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5. USE CAUTION DURING CONSTRUCTION NEAR EXISTING UTILITIES.
6. PIPE DISTANCES ARE MEASURED FROM FITTING TO FITTING.
7. LIMIT DEFLECTION OF PIPE TO MANUFACTURERS' STANDARDS.
8. MAINTAIN DRAINAGE TO EXISTING CATCH BASINS.
9. WATER MAIN SHALL BE INSTALLED UNDER STORM SYSTEM. INSTALL VERTICAL BENDS AS NECESSARY.
10. PROTECT EXISTING LANDSCAPING.

WATER NOTES:

- 1 CAUTION: POTENTIAL UTILITY CONFLICT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH OF EXISTING UTILITY. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING UTILITY SHALL BE FIXED AND/OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 2 INSTALL STORM DRAIN INLET PROTECTION PER DETAIL 3, SHEET CD-1.
- 3 2" END-LINE BLOWOFF ASSEMBLY PER DETAIL 1 ON SHEET CD-4.
- 4 DO NOT MAKE THIS CONNECTION UNTIL A SUCCESSFUL PURITY AND PRESSURE TEST OF THE NEW WATER SYSTEM HAS BEEN WITNESSED AND APPROVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF CHLORINATED WATER IN A METHOD THAT COMPLIES WITH ALL STATE AND FEDERAL REGULATIONS. SUBMIT A DISPOSAL PLAN TO THE CITY PRIOR TO FILLING OF WATER MAINS. VERIFY CONNECTION REQUIREMENTS. INSTALL CONNECTION PER DETAIL 3 ON SHEET CD-2.
- 5 INSTALL NEW METER BOX AND SERVICE LINE PER DETAIL 2 ON SHEET CD-2.
- 6 REMOVE AND REINSTALL EXISTING SIGN/FENCE/LANDSCAPING/WALL (AS REQUIRED). COORDINATE WITH PROPERTY OWNER AND ENGINEER.
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- 8 CLEAR AND GRUB EXISTING TREES, BRUSH, SHRUBS, DUFF, AND/OR VEGETATION. SEE THE SPECIFICATIONS.
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- 10 COMBINATION AIR VALVE PER CITY STANDARD DETAIL 6 ON SHEET CD-3.
- 11 INSTALL CDF PER DETAIL 3 ON SHEET CD-4.

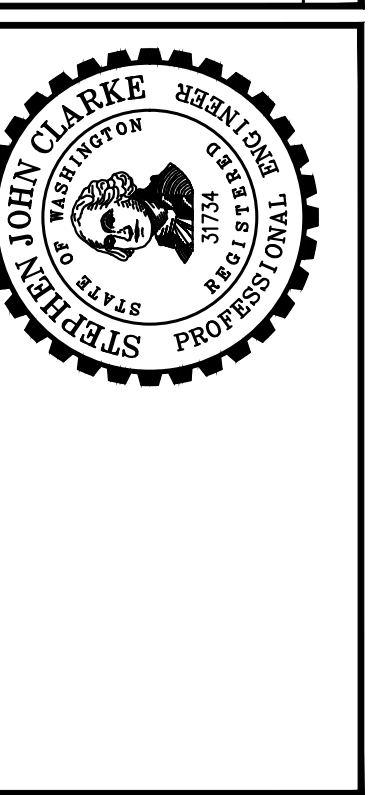
**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



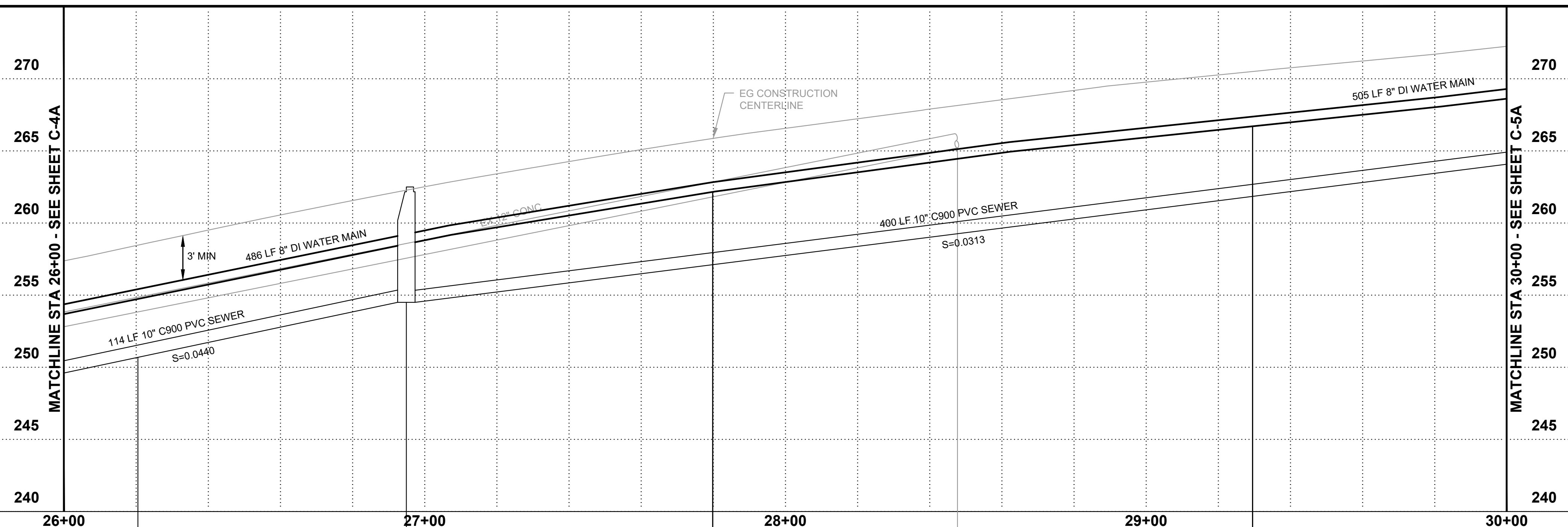
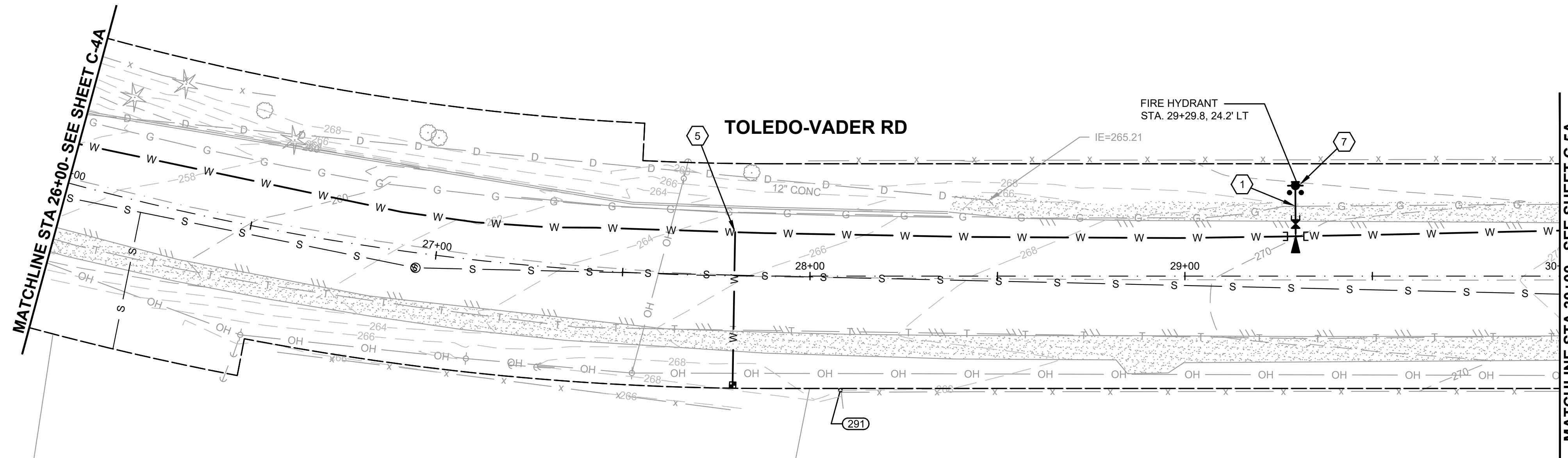
DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

60% PLANSET	DATE	APPD
	REVISION	No.



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
**WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS**
WATER MAIN PLAN AND PROFILE
STA 26+00 TO 30+00

SHEET:	C-5A
OF:	25
JOB NO.:	20227.00
DWG-WAT_2_PLN_PRF	



SIDE SEWER
STA 26+20.6

SSMH NO. 30 - 48\"/>

WATER SERVICE

EX SD OUTFALL
STA. 28+47.7, 20.3' LT
IE=265.21, 12\"/>

FIRE HYDRANT ASSEMBLY
STA. 29+29.8, 25.1' LT

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\WAT_2_PLN_PRF.dwg, 1/14/2022 4:18 PM, ARTEMIS ZAFARI

WASSER &
WINTERS
XXX
011438001000

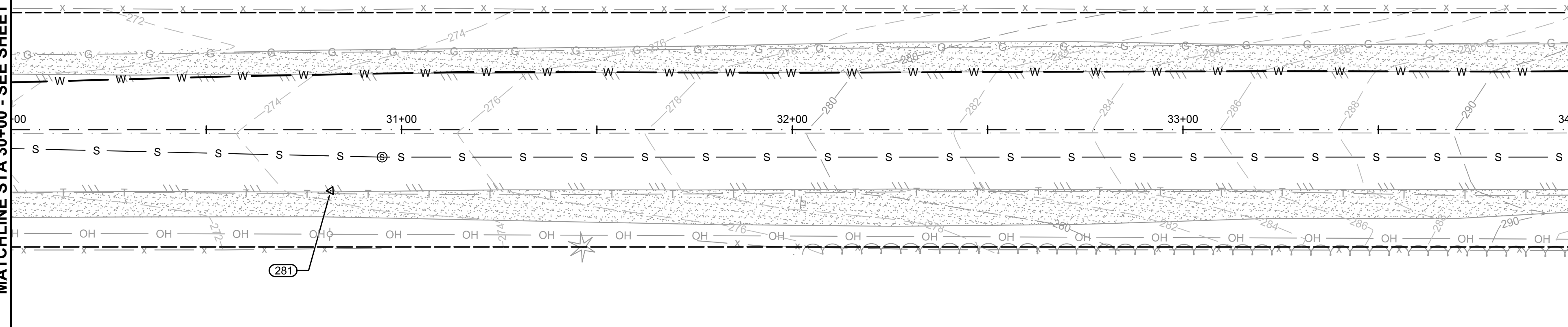
TOLEDO-VADER RD

MESKE
162
011438028002

SEE SHEET C-6B FOR
GRAVITY SEWER

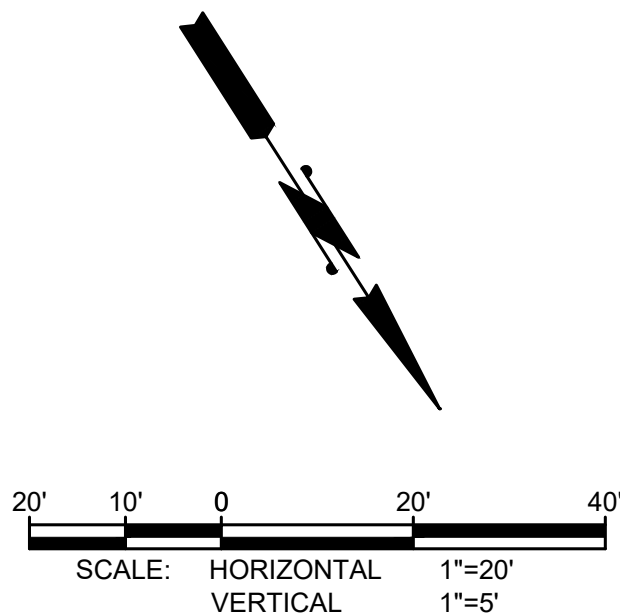
MATCHLINE STA 30+00 - SEE SHEET C-5A

MATCHLINE STA 34+00 - SEE SHEET C-7A



RIGHT-OF-WAY DISCLAIMER

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GENERAL NOTES:

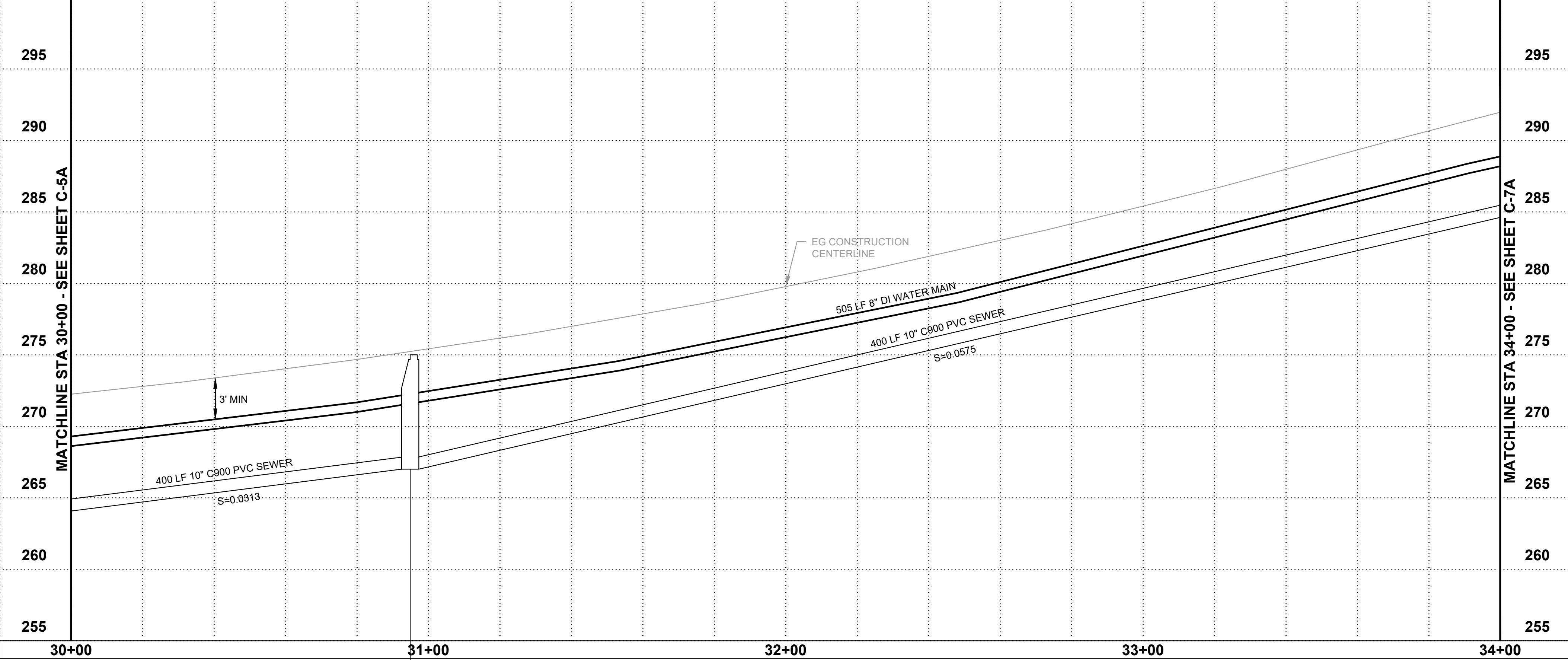
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MATCHLINE STA 30+00 - SEE SHEET C-5A

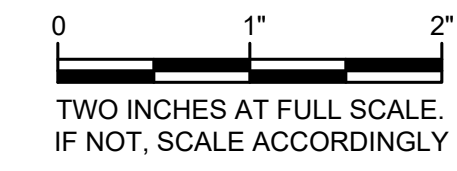
MATCHLINE STA 34+00 - SEE SHEET C-7A



SSMH NO. 31 - 48" Ø
STA. 30+95.00, 7' 0" RT
RIM=275.0
IE=267.0 10" PVC SE
IE=267.0 10" PVC NW

BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811

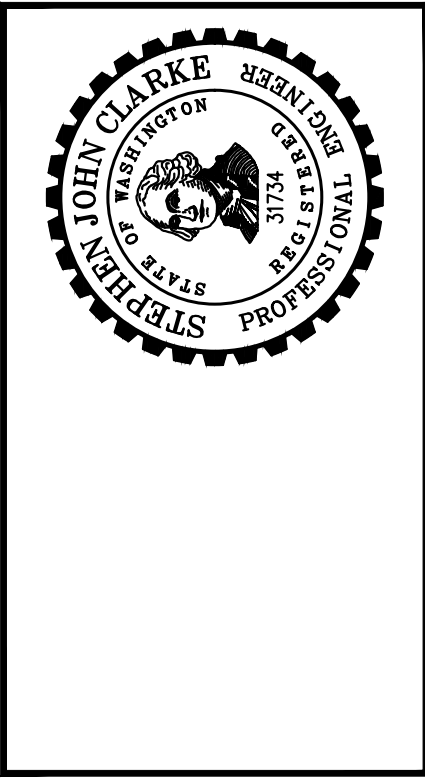
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARROLL DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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REVISION	DATE	APPD
60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
WATER MAIN PLAN AND PROFILE
STA 30+00 TO 34+00

SHEET:	C-6A
OF:	25
JOB NO.:	20227.00
DWG-WAT_2_PLN_PRF	

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\WAT_2_PLN_PRF.dwg, 1/14/2022 4:19 PM, ARTEMIS ZAFARI

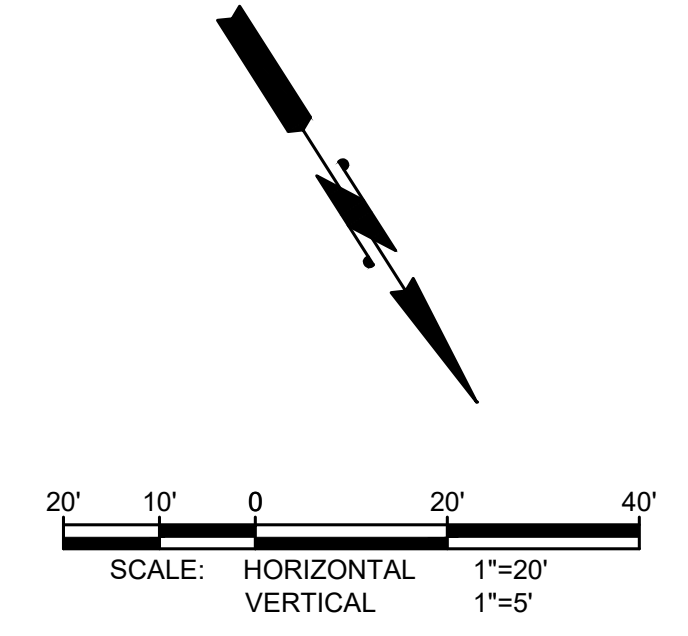
WASSER & WINTERS
XXX
011438001000

MESKE
162
011438028002

MATCHLINE STA 34+00 - SEE SHEET C-6A

SEE SHEET C-8A FOR PLOMONDO RD
SEE SHEET C-7B FOR GRAVITY SEWER

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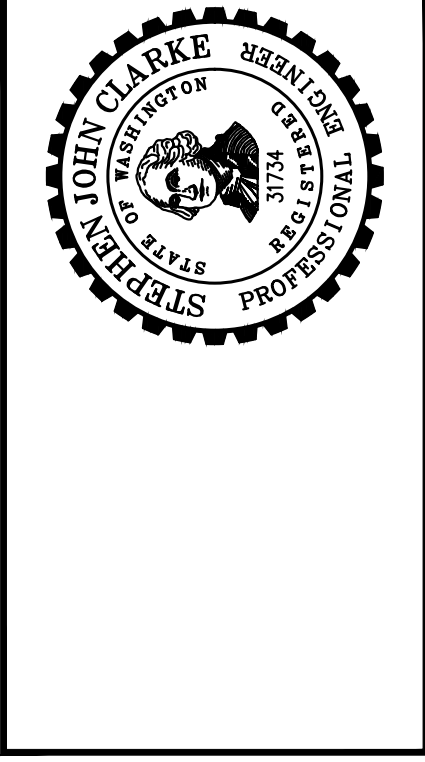
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARBONADE DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 252-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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REVISION	DATE	APPD

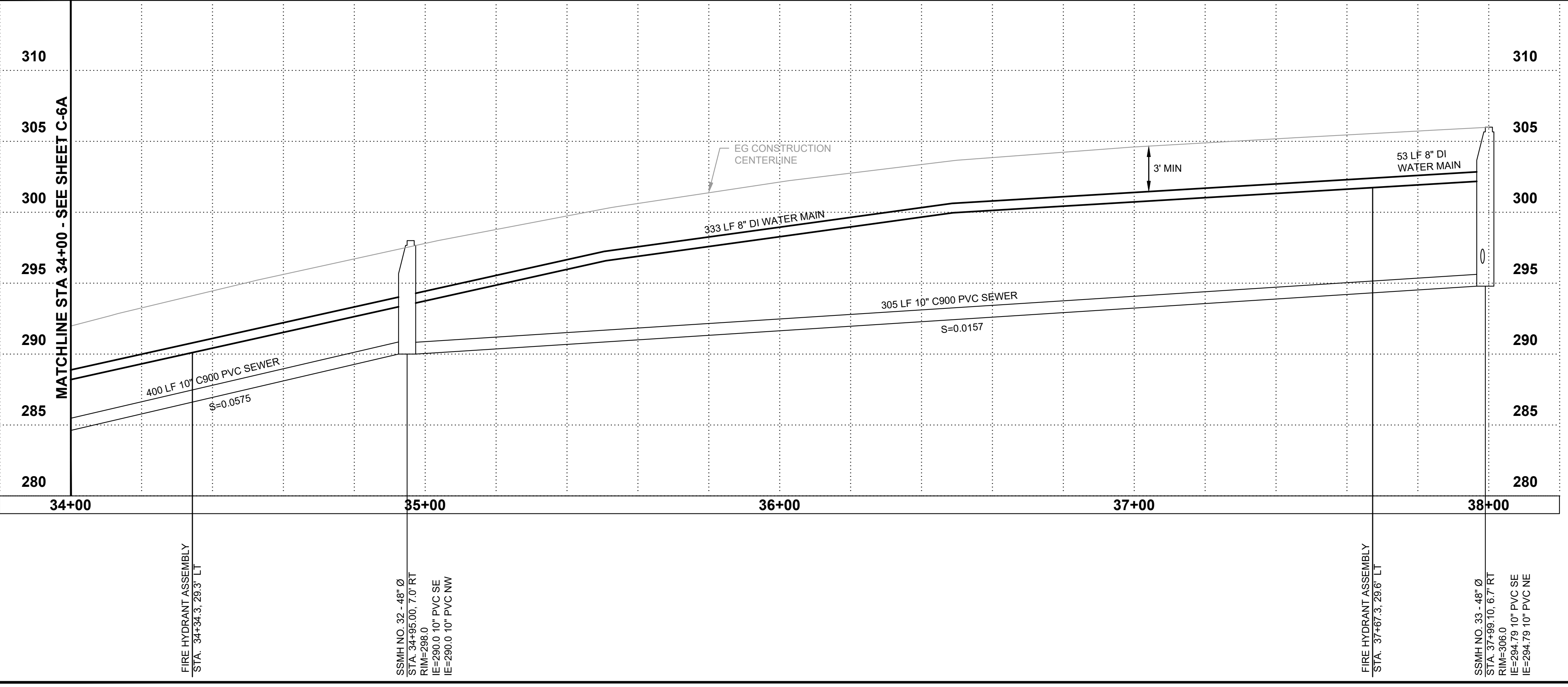


CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
WATER MAIN PLAN AND PROFILE
STA 34+00 TO 38+00

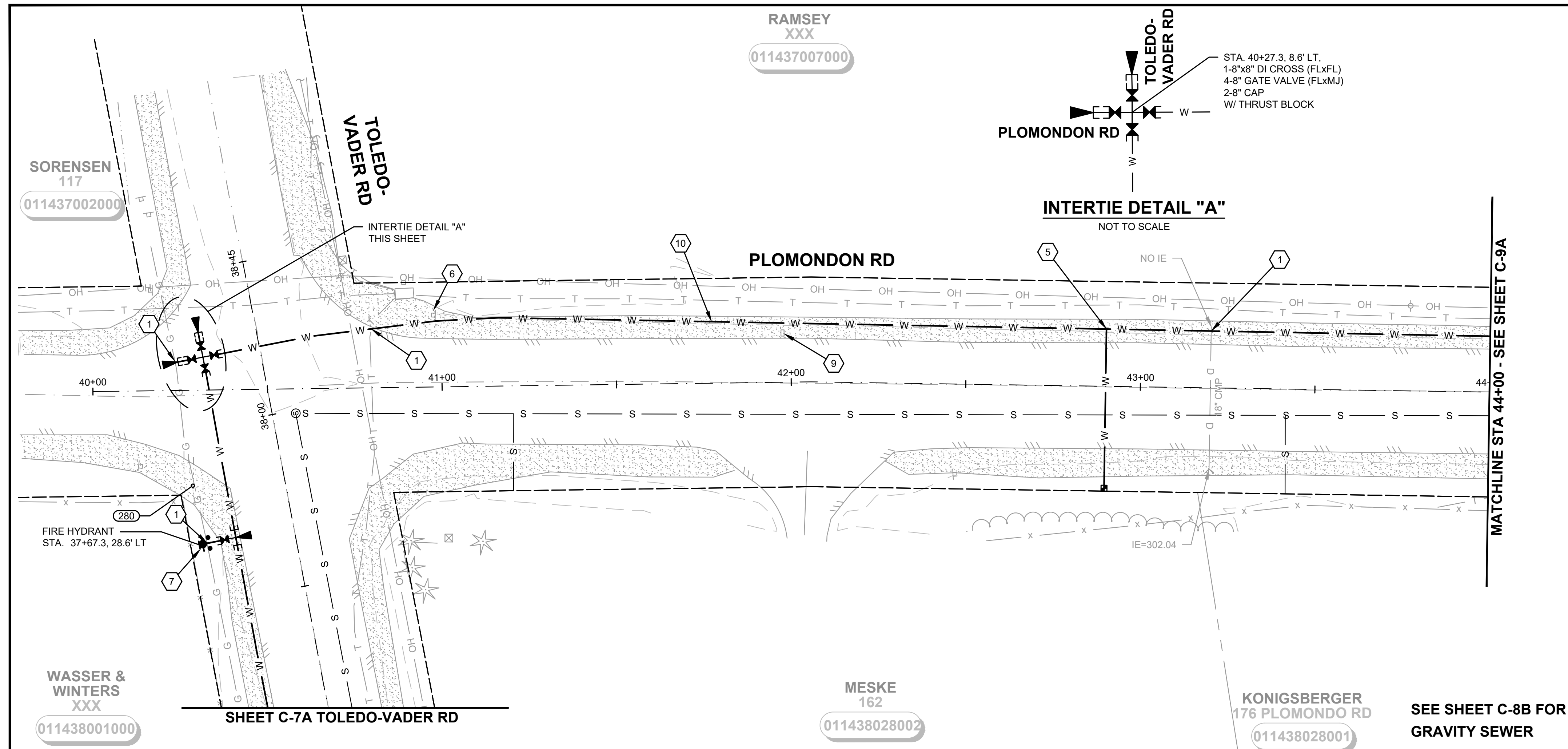
BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811
EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET: **C-7A**
OF: **25**
JOB NO.: 20227.00
DWG-WAT_2_PLN_PRF



M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\Plans\WAT_2_PLN_PRF.dwg, 1/14/2022 4:19 PM, ARTEMIS ZAFARI



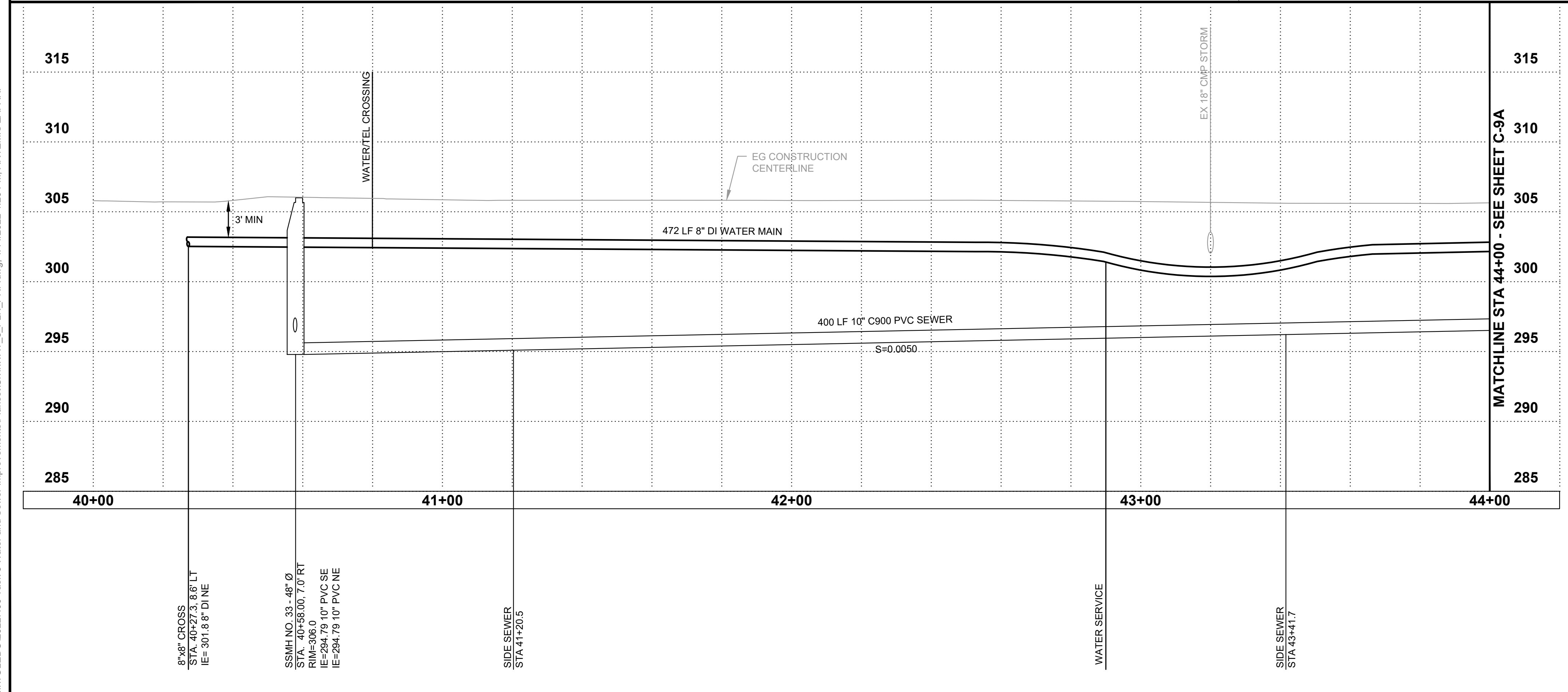
RIGHT-OF-WAY DISCLAIMER

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SCALE: HORIZONTAL 1"=20'
VERTICAL 1"=5'

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BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

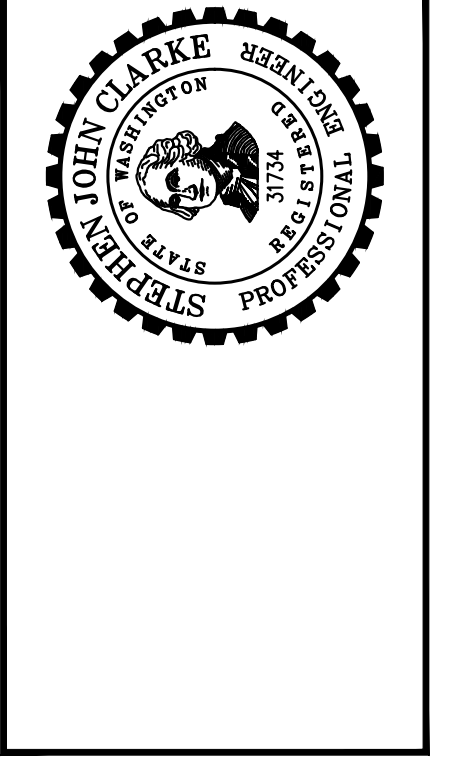
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARBONADE DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

NO.	REVISION	DATE	APPD

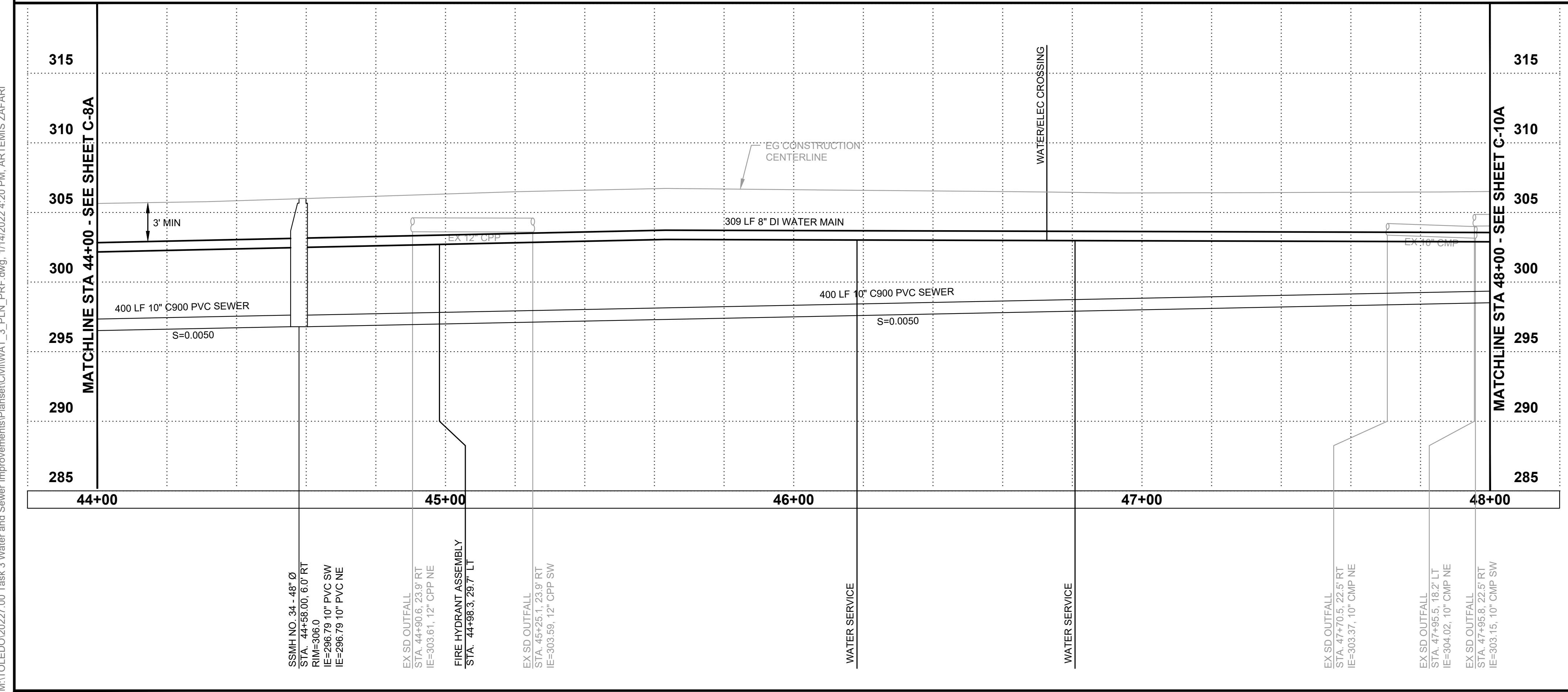
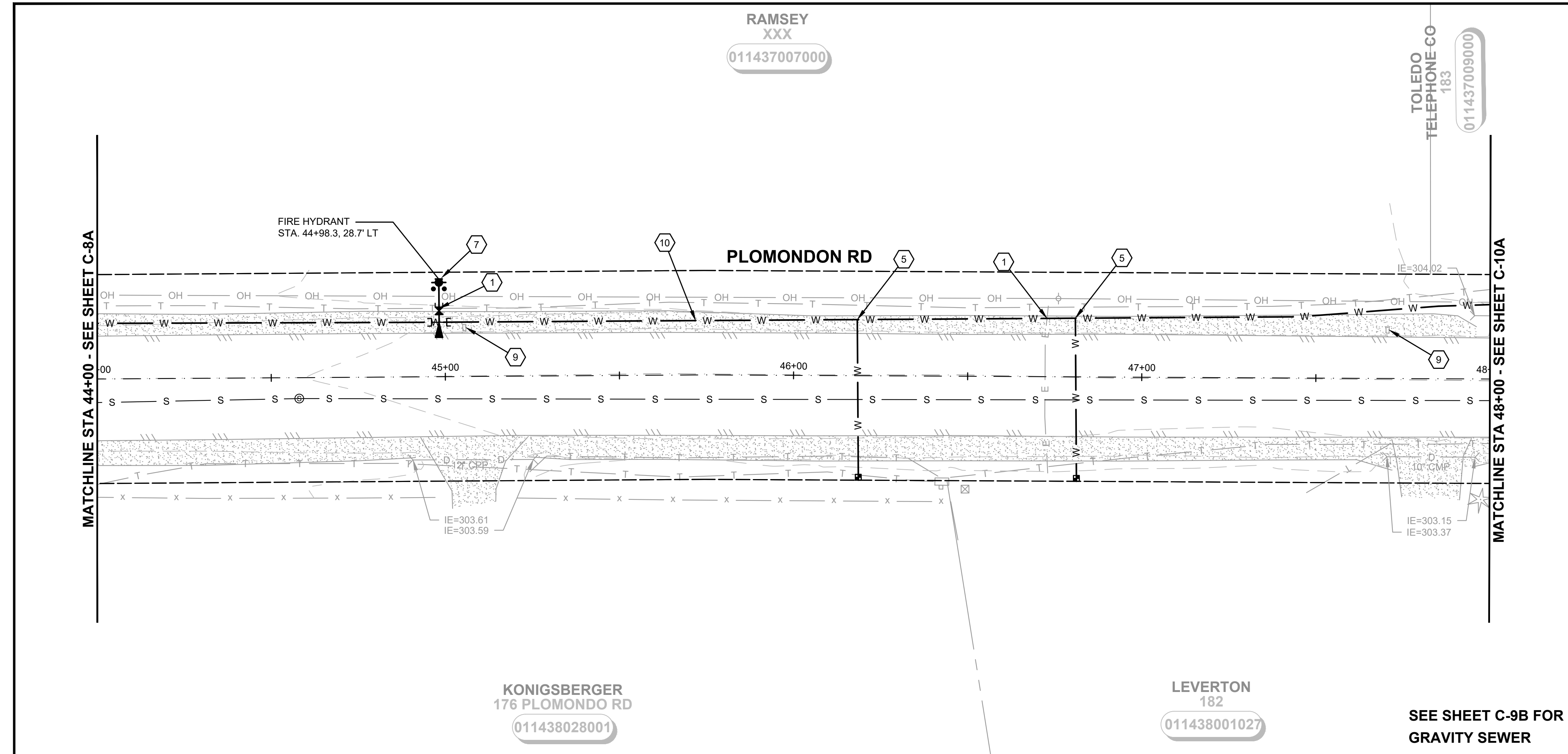


CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
WATER MAIN PLAN AND PROFILE
STA 40+00 TO 44+00

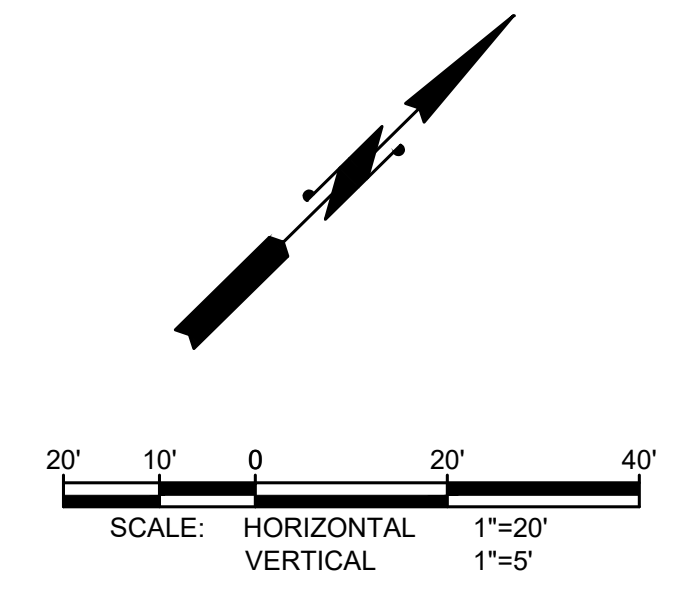
SHEET:	C-8A
OF:	25
JOB NO.:	20227.00
DWG-WAT_3_PLN_PRF	

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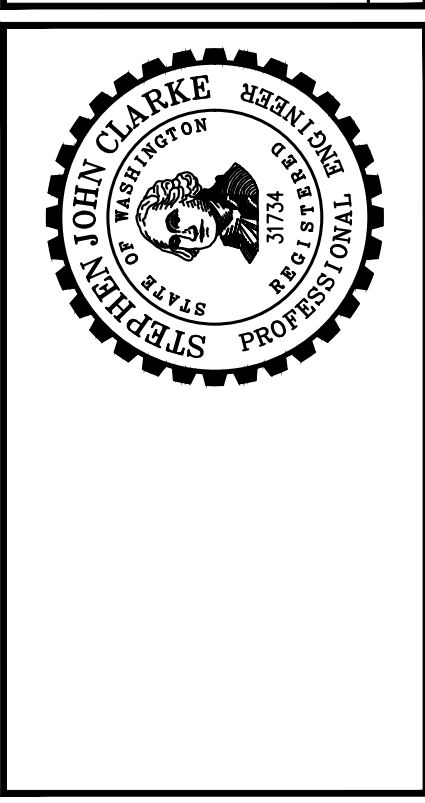
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DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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NO.	REVISION	DATE	APPD



CITY OF TOLEDO
 LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
 WATER MAIN PLAN AND PROFILE
 STA 44+00 TO 48+00

SHEET: **C-9A**
 OF: **25**
 JOB NO.: 20227.00
 DWG-WAT_3_PLN_PRJ

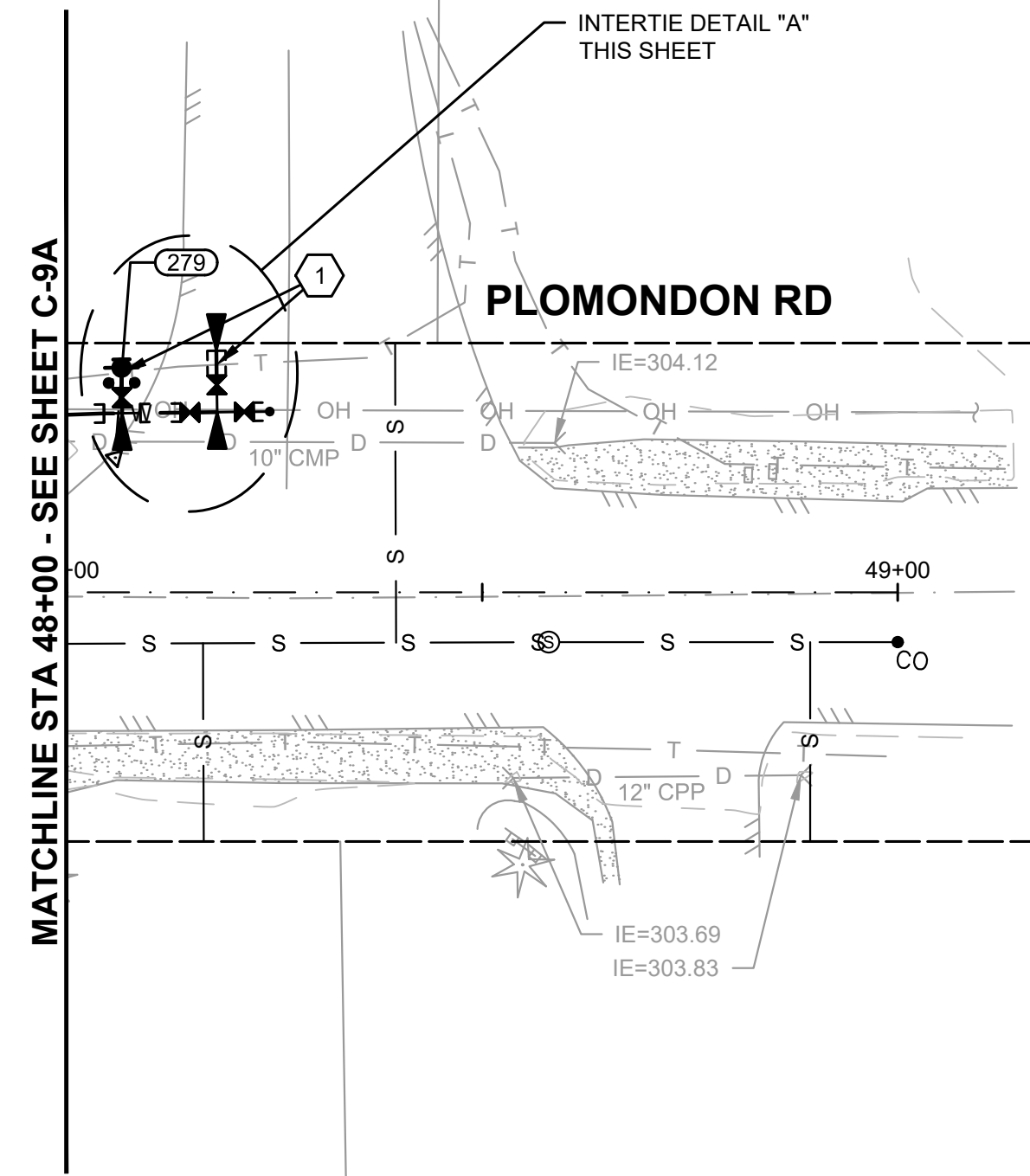
TOLEDO TELEPHONE CO
183

011437009000

RAMSEY
XXX

011437008000

PLOMONDON RD



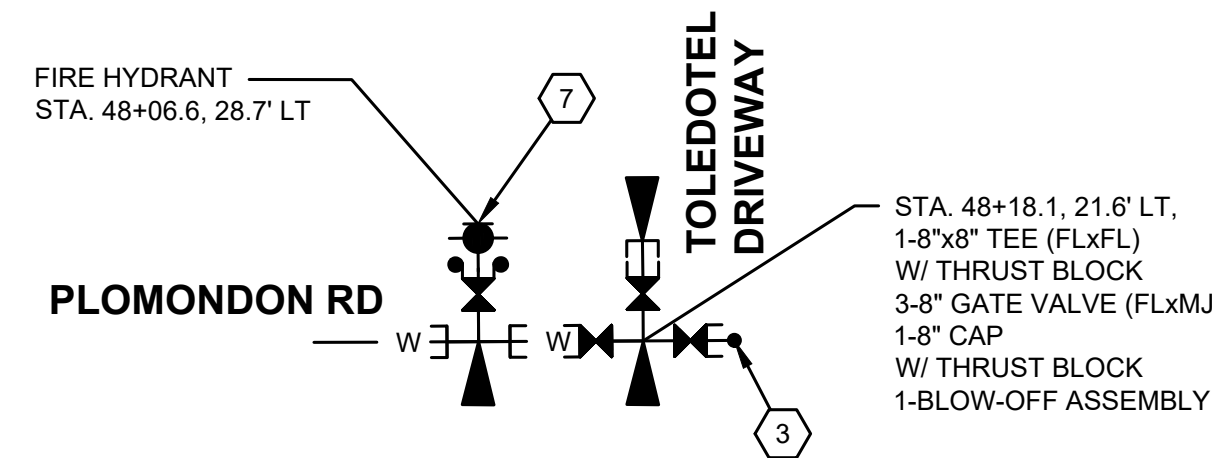
LEVERTON
182

011438001027

MORGAN
190

011438001010

SEE SHEET C-10B FOR
GRAVITY SEWER



INTERTIE DETAIL "A"
NOT TO SCALE

RIGHT-OF-WAY DISCLAIMER

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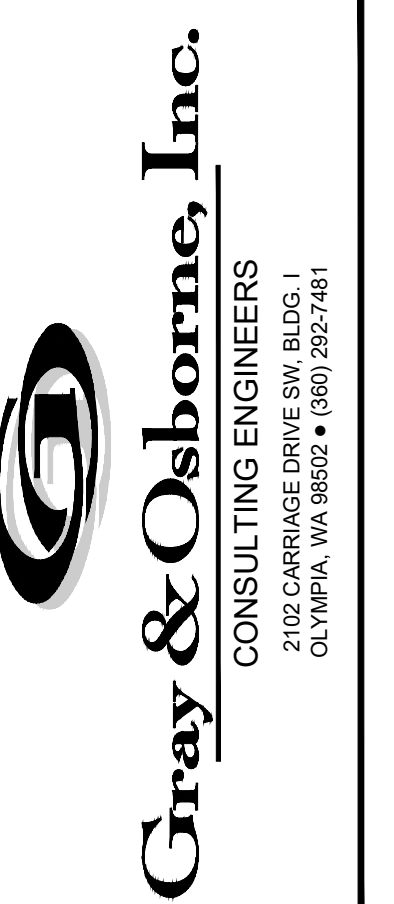


GENERAL NOTES:

- MINIMUM WATER MAIN DEPTH OF COVER SHALL BE 3' OR DEEPER AS SHOWN ON THE PROFILE. IF A MINIMUM OF 3' CANNOT BE PROVIDED, INSTALL NEW WATER MAIN UNDER EXISTING UTILITY. EXTRA DEPTH MAY BE REQUIRED. CONTRACTOR TO VERIFY.
- MAINTAIN A CONTINUOUS POSITIVE GRADE BETWEEN LOW POINT AND AIR VACS AT HIGH POINT AS SHOWN ON THE PLANS.
- SCHEDULE WATER SHUT DOWN WITH THE CITY OF TOLEDO.
- POTHOLE TO DETERMINE EXACT LOCATION OF THE UTILITIES PRIOR TO COMMENCING THE WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE ON SHALL BE REPORTED TO THE OWNER PRIOR TO COMMENCING THE WORK.
- USE CAUTION DURING CONSTRUCTION NEAR EXISTING UTILITIES.
- PIPE DISTANCES ARE MEASURED FROM FITTING TO FITTING.
- LIMIT DEFLECTION OF PIPE TO MANUFACTURERS' STANDARDS.
- MAINTAIN DRAINAGE TO EXISTING CATCH BASINS.
- WATER MAIN SHALL BE INSTALLED UNDER STORM SYSTEM. INSTALL VERTICAL BENDS AS NECESSARY.
- PROTECT EXISTING LANDSCAPING.

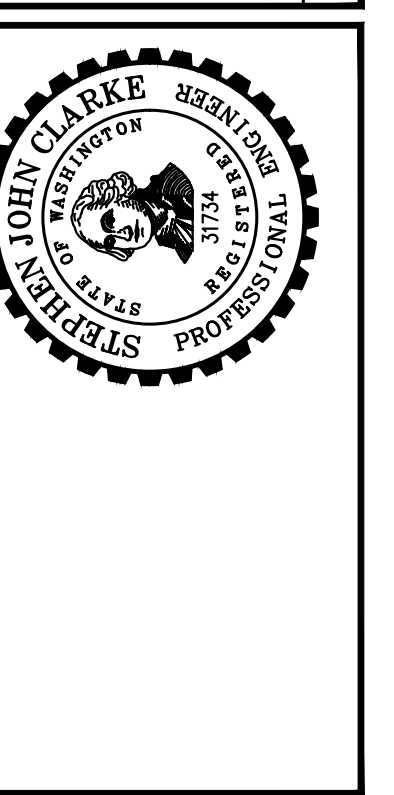
WATER NOTES:

- CAUTION: POTENTIAL UTILITY CONFLICT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH OF EXISTING UTILITY. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING UTILITY SHALL BE FIXED AND/OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- INSTALL STORM DRAIN INLET PROTECTION PER DETAIL 3, SHEET CD-1.
- 2" END-LINE BLOWOFF ASSEMBLY PER DETAIL 1 ON SHEET CD-4.
- DO NOT MAKE THIS CONNECTION UNTIL A SUCCESSFUL PURITY AND PRESSURE TEST OF THE NEW WATER SYSTEM HAS BEEN WITNESSED AND APPROVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF CHLORINATED WATER IN A METHOD THAT COMPLIES WITH ALL STATE AND FEDERAL REGULATIONS. SUBMIT A DISPOSAL PLAN TO THE CITY PRIOR TO FILLING OF WATER MAINS. VERIFY CONNECTION REQUIREMENTS. INSTALL CONNECTION PER DETAIL 3 ON SHEET CD-2.
- INSTALL NEW METER BOX AND SERVICE LINE PER DETAIL 2 ON SHEET CD-2.
- REMOVE AND REINSTALL EXISTING SIGN/FENCE/LANDSCAPING/WALL (AS REQUIRED). COORDINATE WITH PROPERTY OWNER AND ENGINEER.
- INSTALL NEW FIRE HYDRANT ASSEMBLY PER DETAIL 1 ON SHEET CD-3.
- CLEAR AND GRUB EXISTING TREES, BRUSH, SHRUBS, DUFF, AND/OR VEGETATION. SEE THE SPECIFICATIONS.
- REMOVE AND REINSTALL EXISTING MAILBOX(ES) PER DETAIL X ON SHEET XX.
- COMBINATION AIR VALVE PER CITY STANDARD DETAIL 6 ON SHEET CD-3.
- INSTALL CDF PER DETAIL 3 ON SHEET CD-4.



DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

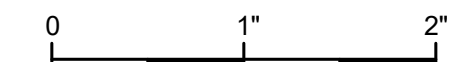
REVISION	DATE	APPD
60% PLANSET		
No.		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
WATER MAIN PLAN AND PROFILE
STA 48+00 TO 49+00

BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

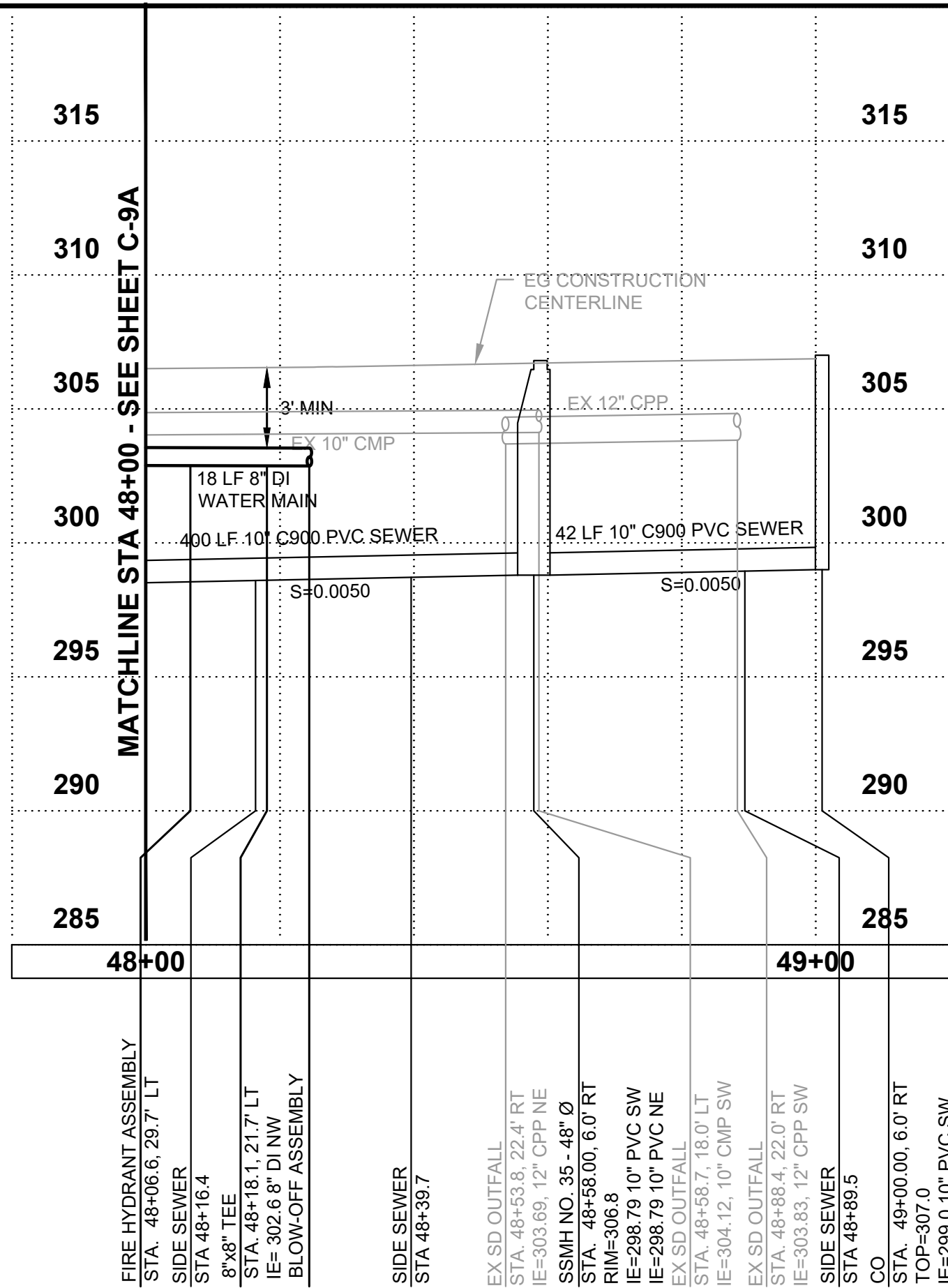
SHEET: C-10A

OF: 25

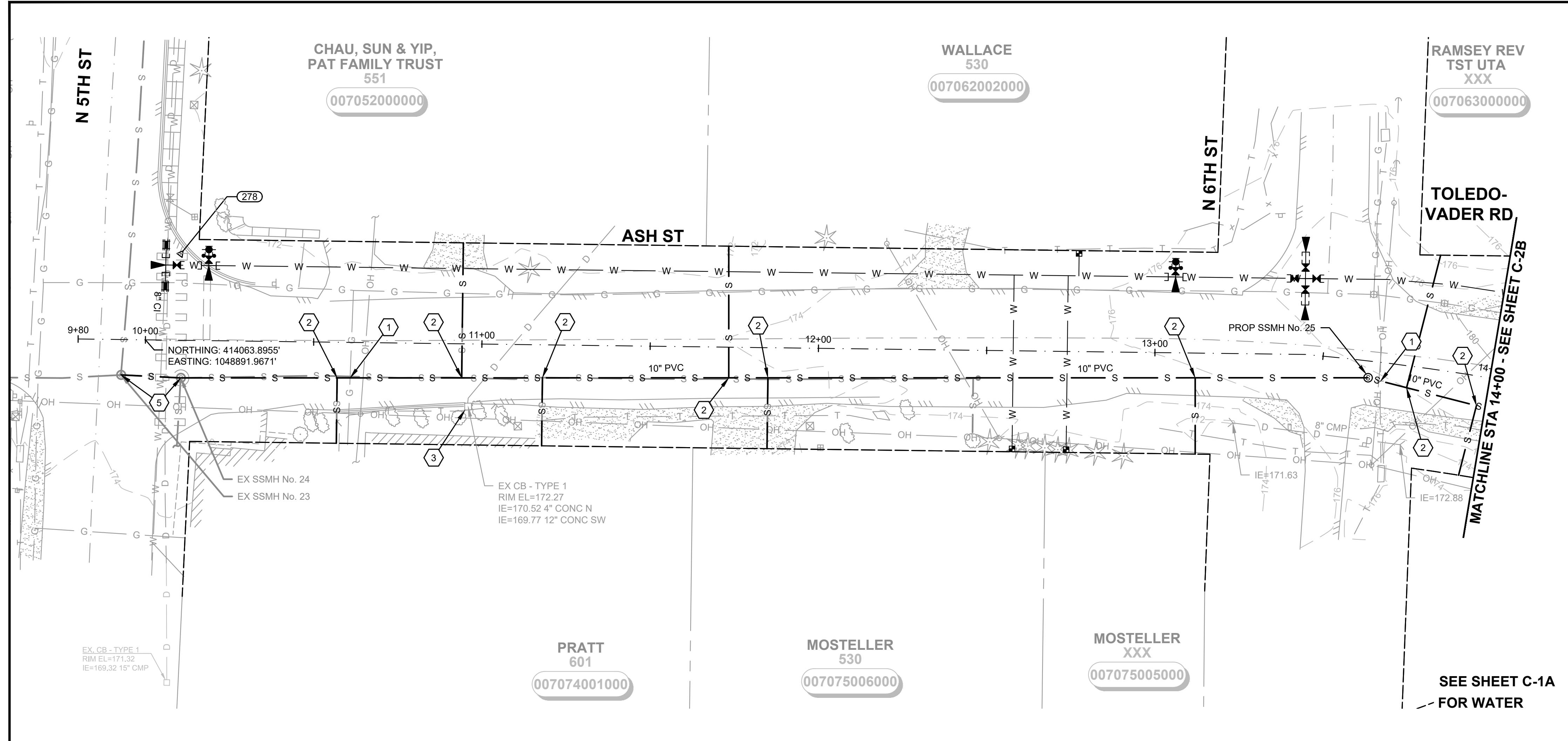
JOB NO.: 20227.00

DWG-WAT_3_PLN_PRF

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\WAT_3_PLN_PRF.dwg, 1/14/2022 4:20 PM, ARTEMIS ZAFARI



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RIGHT-OF-WAY DISCLAIMER

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SCALE: HORIZONTAL 1"=20'
VERTICAL 1"=5'

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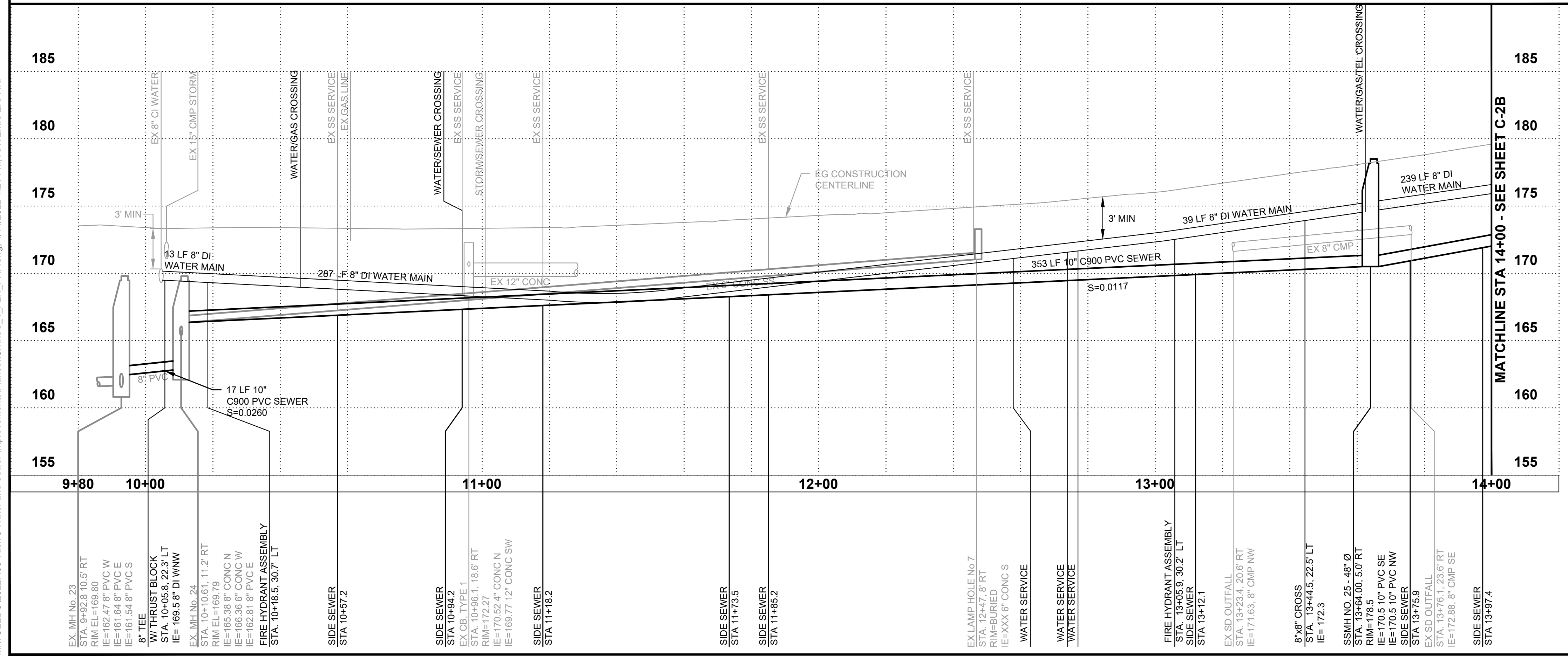
Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARROLL DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

NO.	REVISION	DATE	APPD

60% PLANSET

CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 10+00 TO 14+00



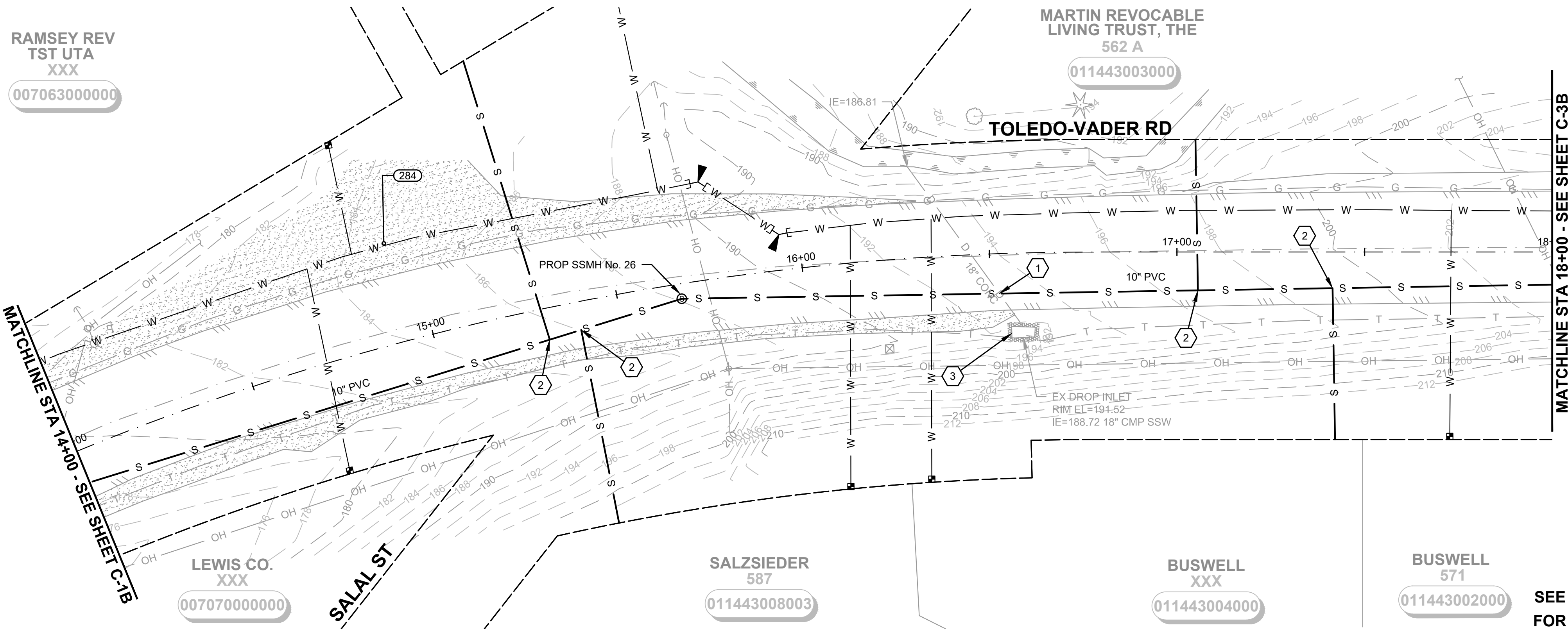
BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

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TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

SHEET: **C-1B**
OF: **25**
JOB NO.: 20227.00
DWG/SS_1_PLN_PRF

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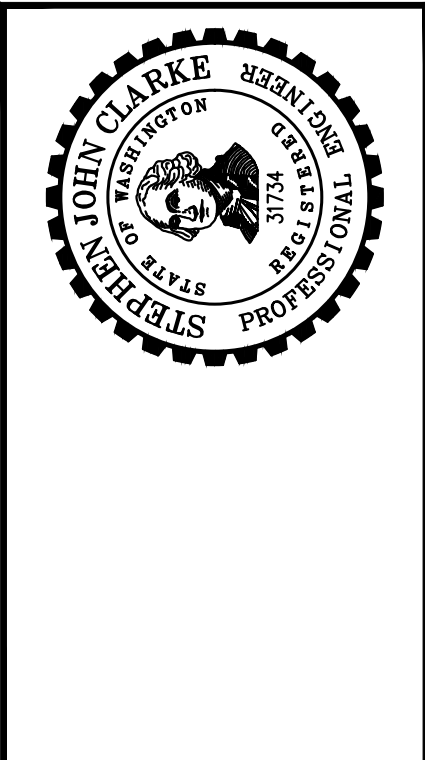
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARBONADE DRIVE SW, BLDG. 1
OLYMPIA, WA 98512 • (360) 292-7481

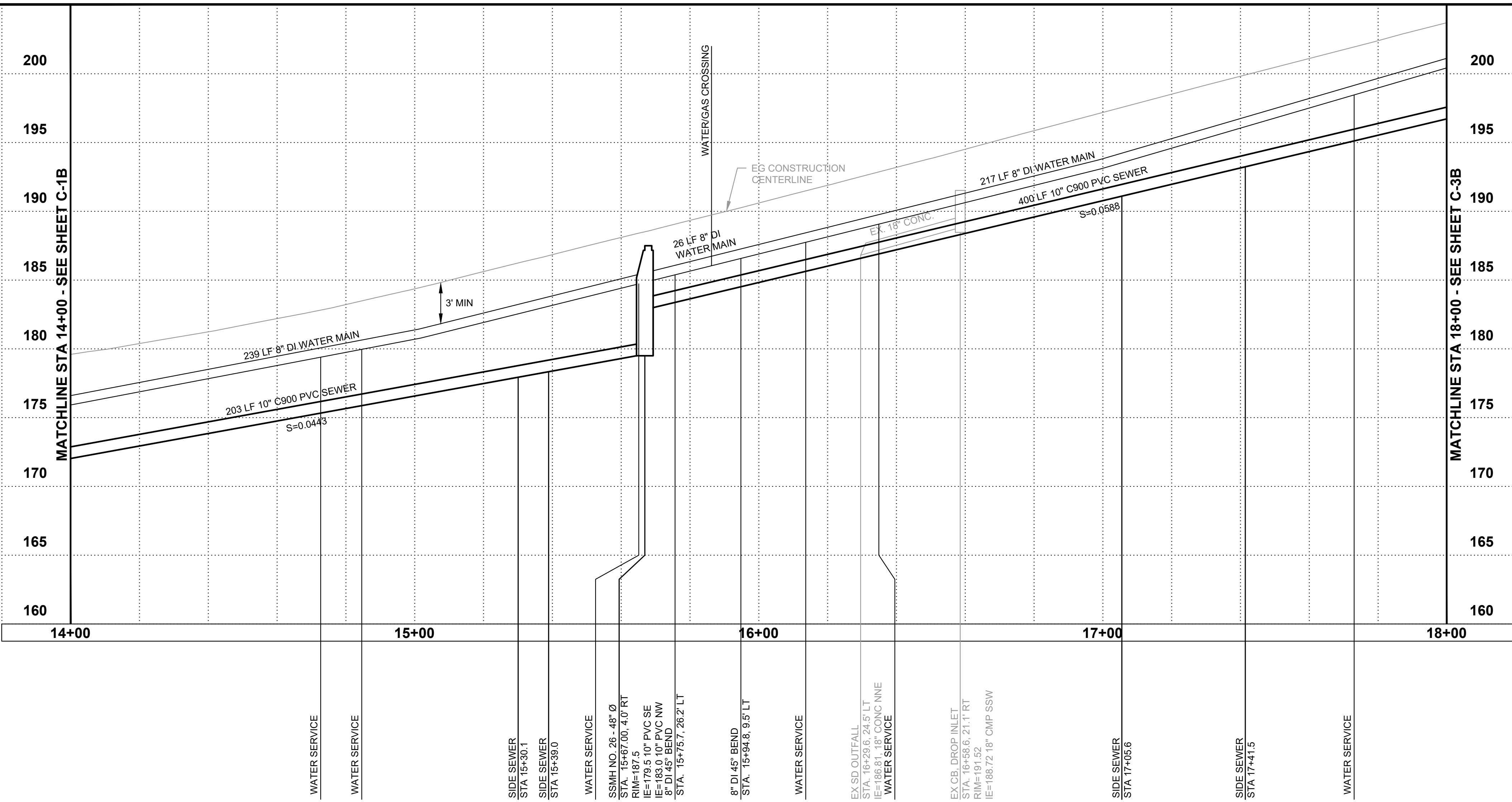
DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

NO.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 14+00 TO 18+00

SHEET: **C-2B**
OF: **25**
JOB NO.: 20227.00
DWG.SS_1_PLN_PRF



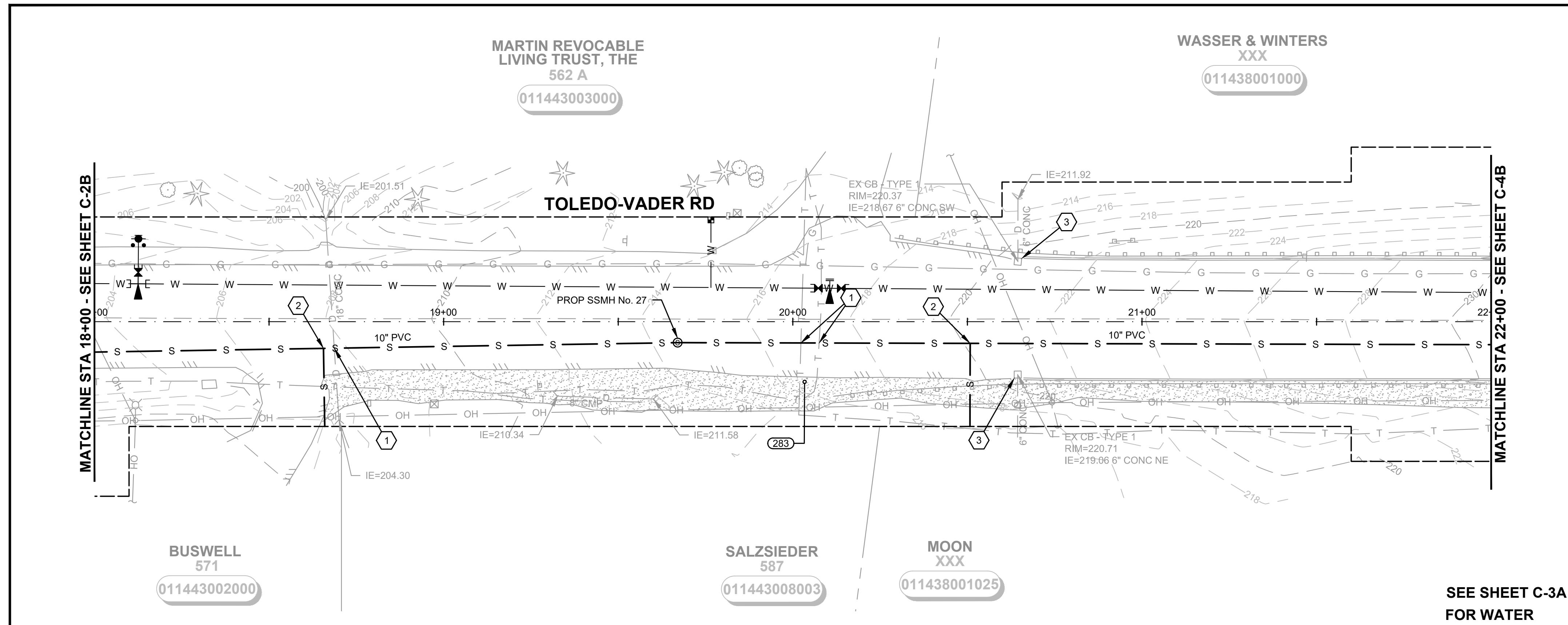
BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

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M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\SS_1_PLN_PRF.dwg, 1/14/2022, 4:22 PM, ARTEMIS ZAFARI

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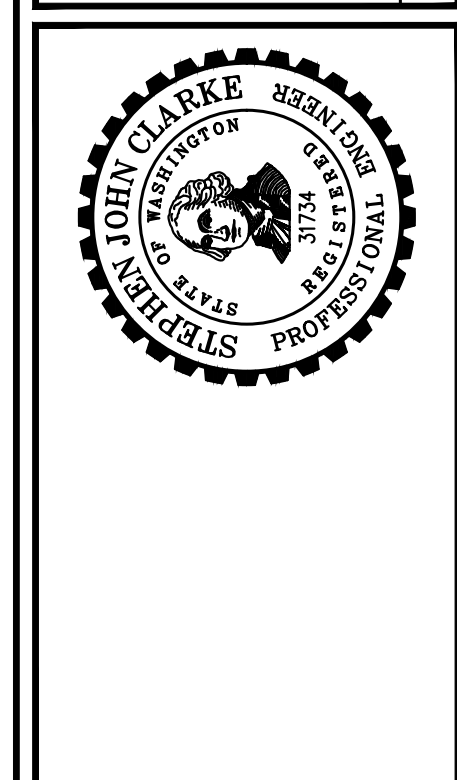
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SEE SHEET C-3A FOR WATER

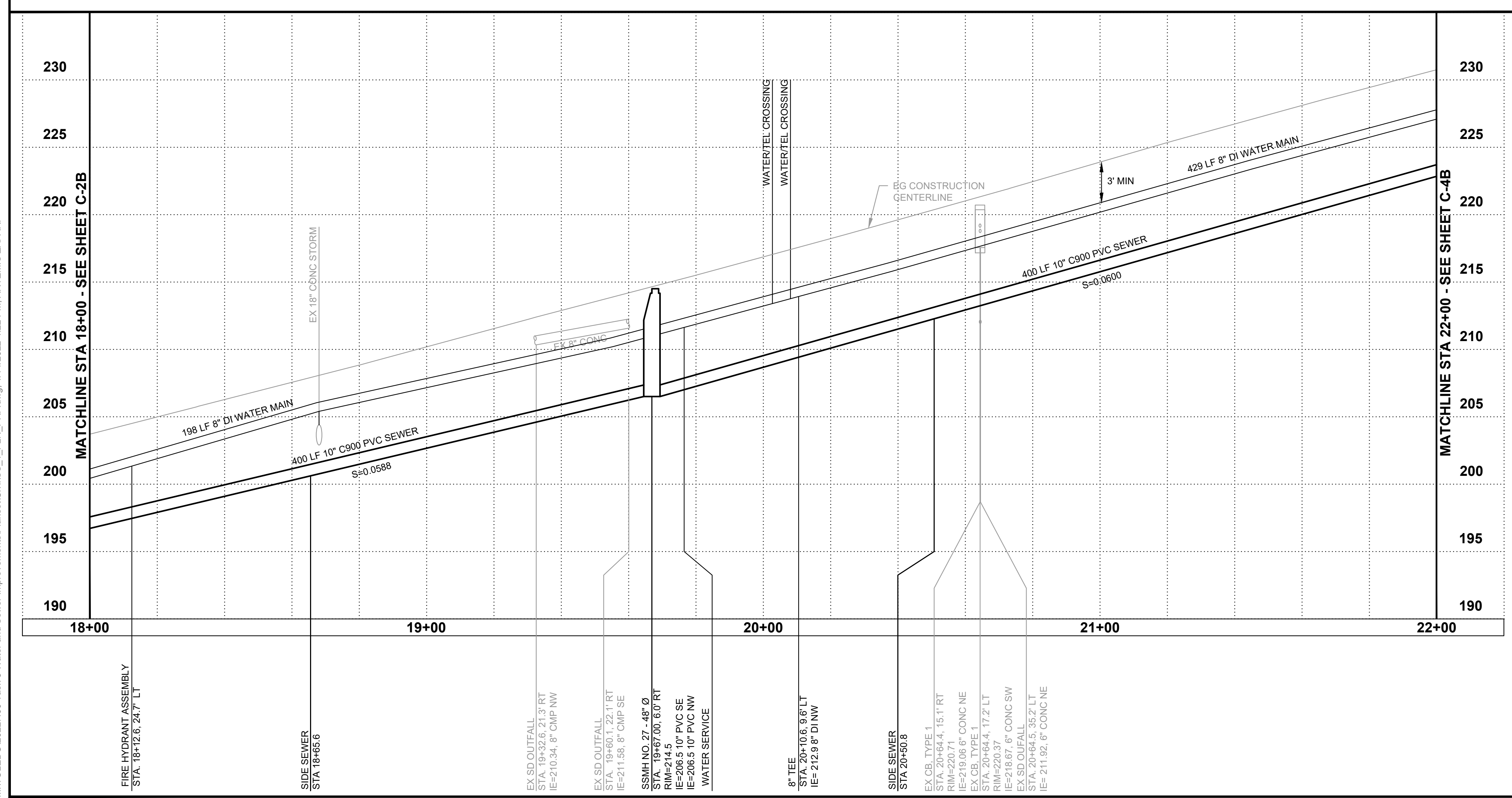
Gray & Osborne, Inc.
CONSULTING ENGINEERS
2103 CARPENTER DRIVE SW, BLDG. 1
OLYMPIA, WA 98512 • (360) 292-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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NO.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 18+00 TO 22+00



BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811
EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET: C-3B
OF: 25

JOB NO.: 20227.00
DWG_SS_1_PLN_PRF

WASSER & WINTERS
XXX

011438001000

TOLEDO-VADER RD

IF=240.78

EX CB - TYPE 1
RIM=247.59
IE=245.09 12" DI SE
IE=245.19 12" DI NW

EX CB - TYPE 1
RIM=254.88
IE=252.58 12" DI SE
IE=252.78 12" CONG NW

MATCHLINE STA 22+00 - SEE SHEET C-3B

MATCHLINE STA 26+00 - SEE SHEET C-5B

MOON
XXX

011438001025

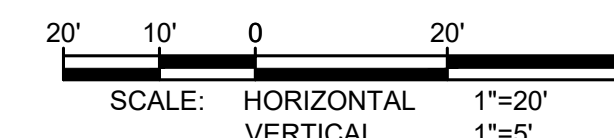
KÖNIGSBERGER
176 PLOMONDO RD

011438028001

SEE SHEET C-4A
FOR WATER

RIGHT-OF-WAY DISCLAIMER

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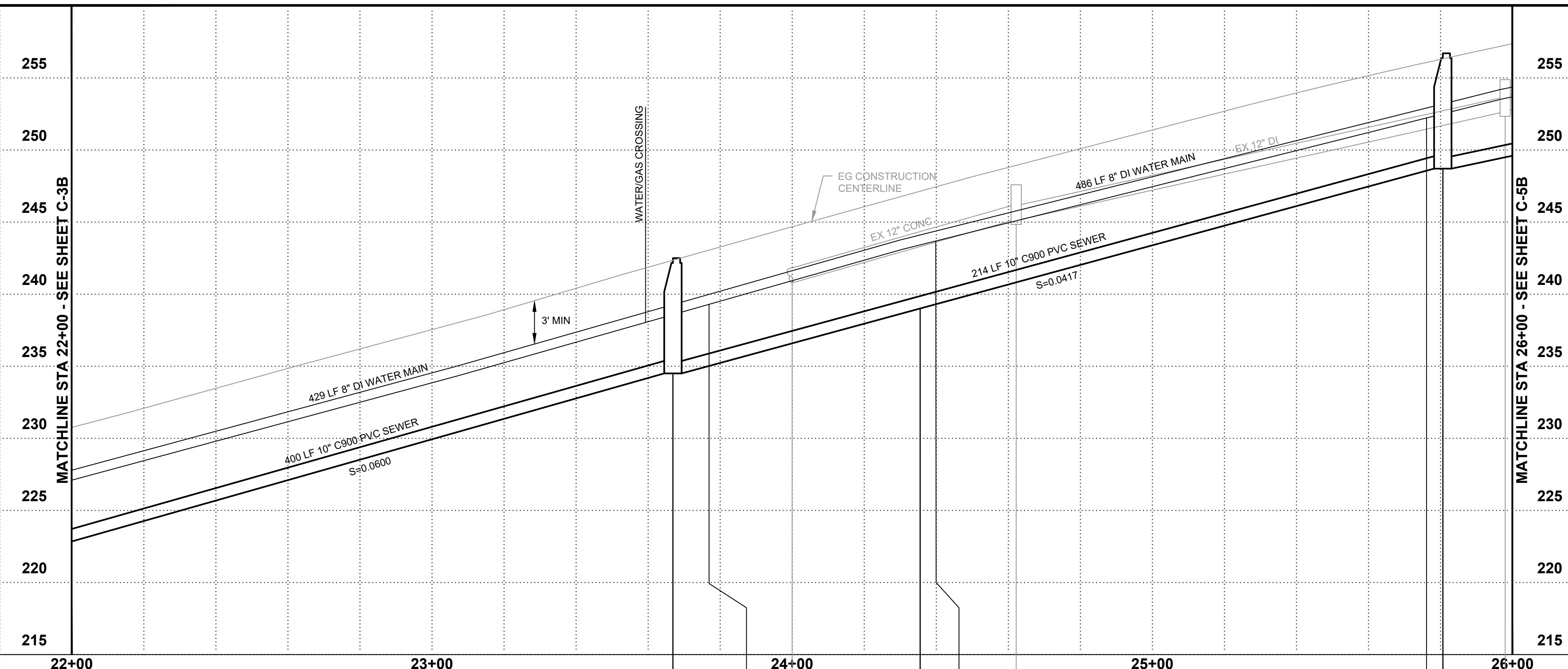


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SSMH NO. 28 - 48" Ø
STA. 23+67.00, 7.0' RT
RIM=242.5
IE=230.5 10" PVC SE
IE=236.5 10" PVC NW

WATER SERVICE

EX SD OUTFALL
STA. 24+00.0, 25.0' LT
IE=240.78, 12" CONG NW

SIDE SEWER
STA. 24+35.6

FIRE HYDRANT ASSEMBLY
STA. 24+39.2, 26.7' LT

EX CB, TYPE 1
STA. 24+26.2, 17.0' LT
RIM=247.59
IE=245.09 12" DI SE
IE=245.19 12" DI NW

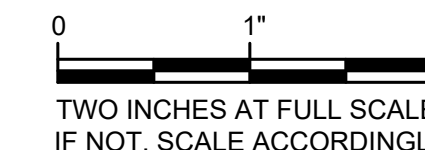
WATER SERVICE

SSMH NO. 29 - 48" Ø
STA. 25+80.72, 5.4' RT
RIM=256.7
IE=245.3 10" PVC SE
IE=245.3 10" PVC NW

EX CB, TYPE 1
STA. 25+98.0, 18.6' LT
RIM=254.88
IE=252.58 12" DI SE
IE=252.78 12" CONG NW

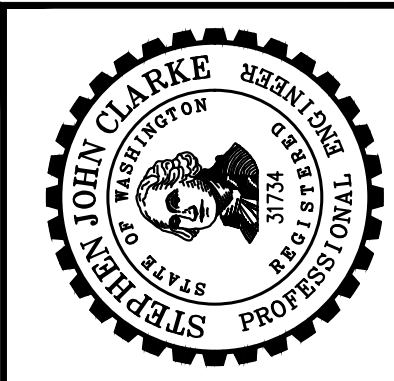
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CALL BEFORE YOU DIG
1-811**

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DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

REVISION	DATE	APPD
60% PLANSET		
No.		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON

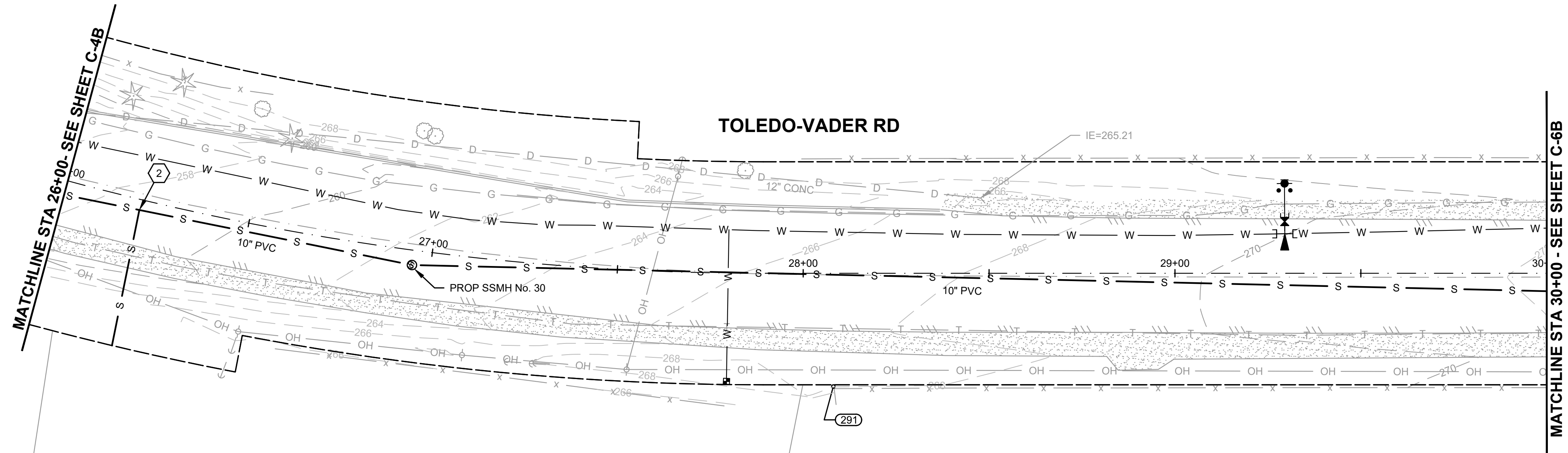
**WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS**

GRAVITY SEWER PLAN AND PROFILE
STA 22+00 TO 26+00

SHEET:	C-4B
OF:	25
JOB NO.:	20227.00
DWG. NO.:	1_PLN_PRF

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\SS_1_PLN_PRF.dwg, 1/14/2022, 4:22 PM, ARTEMIS ZAFARI

WASSER & WINTERS
XXX
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PUBLIC UTILITY
DIST 1
XXX
011438001017

MESKE
162
011438028002

SEE SHEET C-5A
FOR WATER

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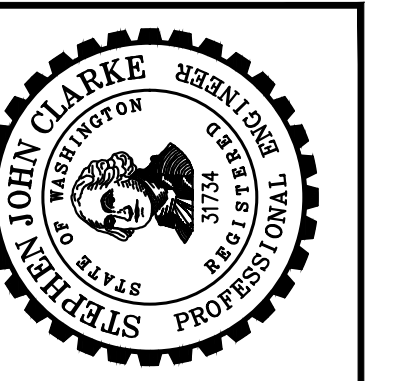
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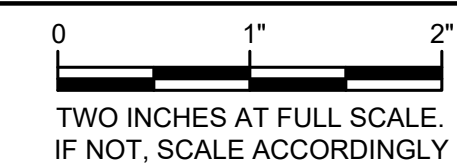
NO.	REVISION	DATE	APPD
60% PLANSET			



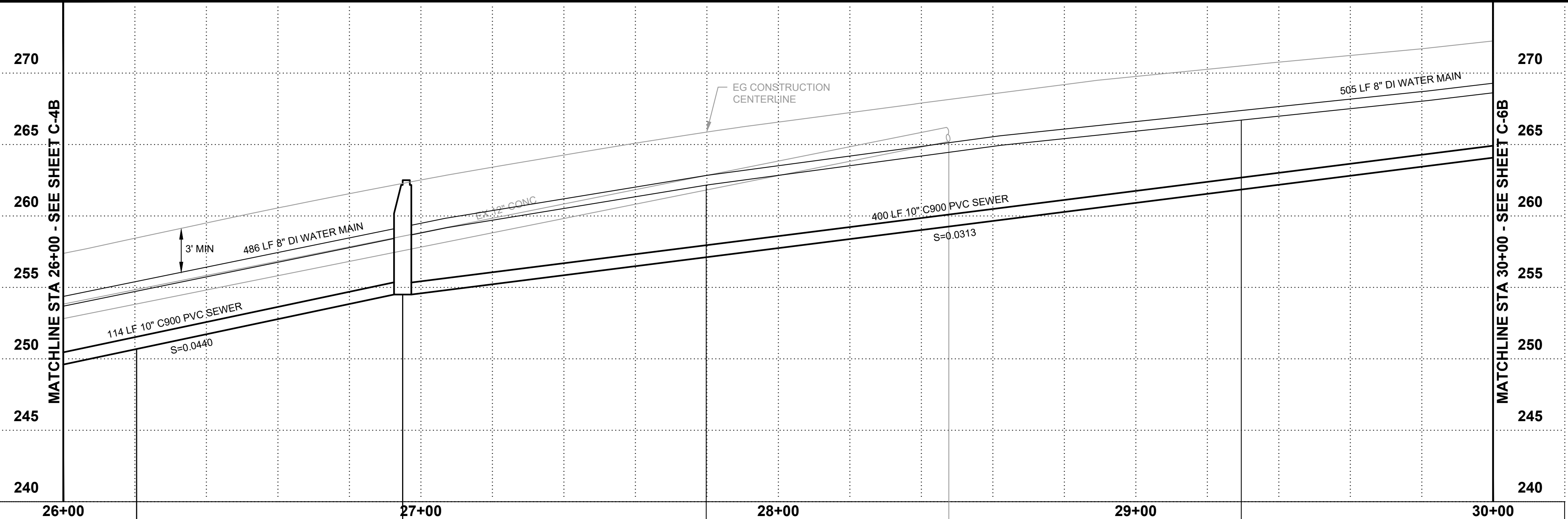
CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 26+00 TO 30+00

**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



SHEET: **C-5B**
OF: **25**
JOB NO.: 20227.00
DWG SS 2_PLN_PRF



SIDE SEWER
STA 26+20.6

SSMH NO. 30 - 48" Ø
STA. 26+95.00, 4.0' RT
RIM=262.5
IE=254.5 10" PVC SE
IE=250.18 10" PVC NW

WATER SERVICE

EX SD OUTFALL
STA. 28+47.7, 20.3' LT
IE=265.21, 12" CONC SE

FIRE HYDRANT ASSEMBLY
STA. 29+29.8, 25.1' LT

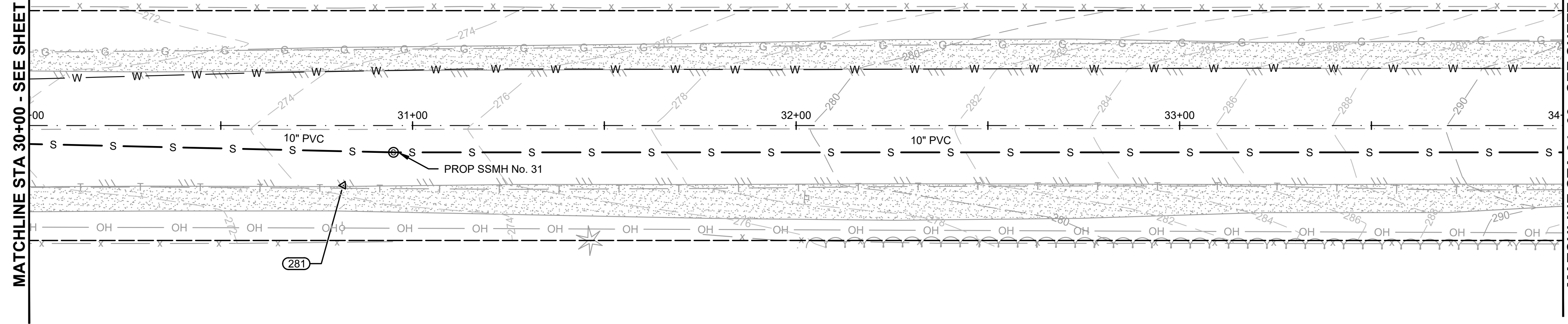
WASSER & WINTERS
XXX
011438001000

TOLEDO-VADER RD

MESKE
162
011438028002

MATCHLINE STA 30+00 - SEE SHEET C-5B

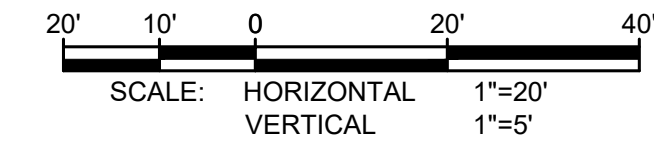
MATCHLINE STA 34+00 - SEE SHEET C-7B



SEE SHEET C-6A
FOR WATER

RIGHT-OF-WAY DISCLAIMER

The right-of-way and/or property lines shown herein are based on available information, not on a surveyed location and are only approximate.



GENERAL NOTES:

- EXISTING SEWER MAIN, MANHOLES, AND SERVICE LATERALS SHALL BE REMOVED, WASTEHAULED, AND REPLACED. EXISTING FACILITIES NOT SHOWN FOR CLARITY OF NEW FEATURES.
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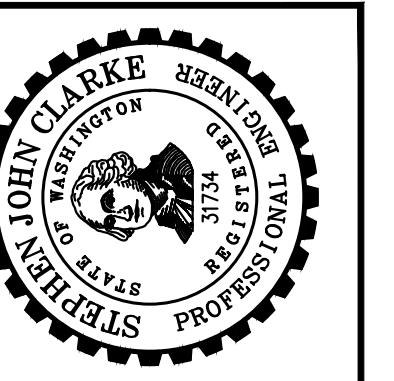
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARRIAGE DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

REVISION	DATE	APPD
60% PLANSET		
No.		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 30+00 TO 34+00

BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



SHEET:	C-6B
OF:	25
JOB NO.:	20227.00
DWGSS_2_PLN_PRF	

SSMH NO. 31 - 48" Ø
STA. 30+95.00, 7' 0" RT
RIM=275.0
IE=267.0 10" PVC SE
IE=267.0 10" PVC NW

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\SS_2_PLN_PRF.dwg, 1/14/2022, 4:24 PM, ARTEMIS ZAFARI

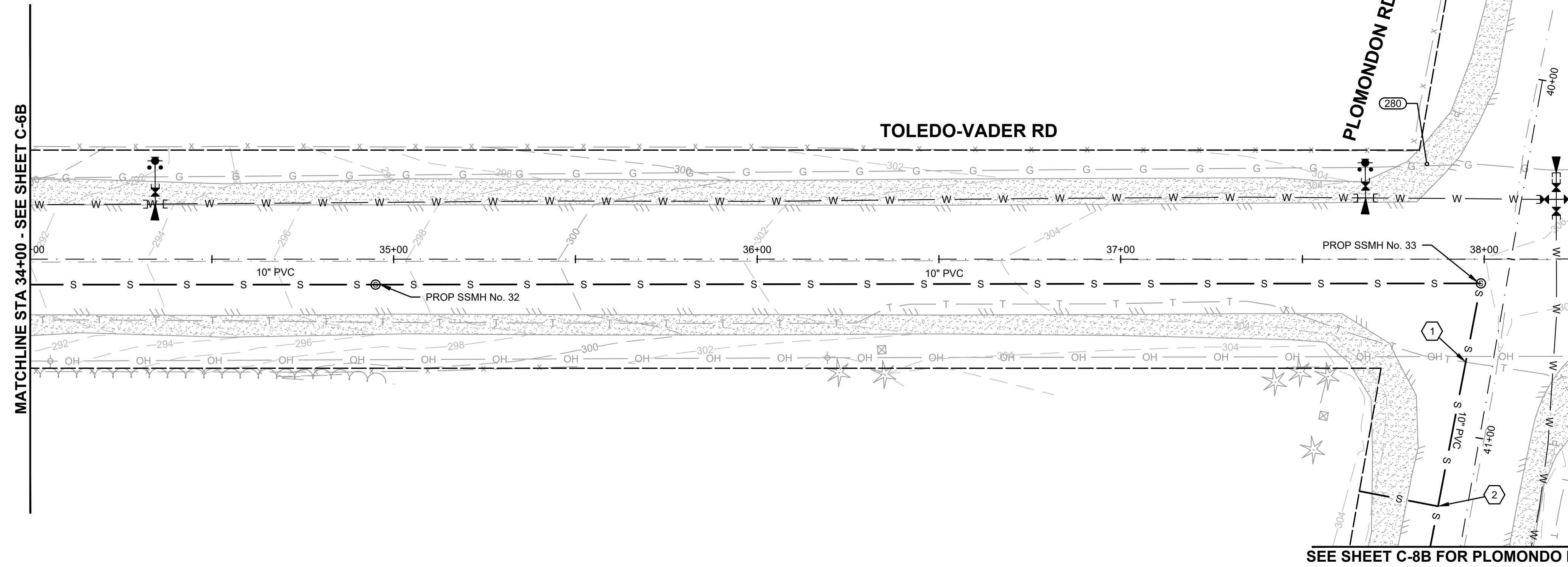
WASSER &
WINTERS
XXX

011438001000

TOLEDO-VADER RD

PLOMONDON RD

MATCHLINE STA 34+00 - SEE SHEET C-6B



MESKE
162

011438028002

SEE SHEET C-7A
FOR WATER

RIGHT-OF-WAY DISCLAIMER

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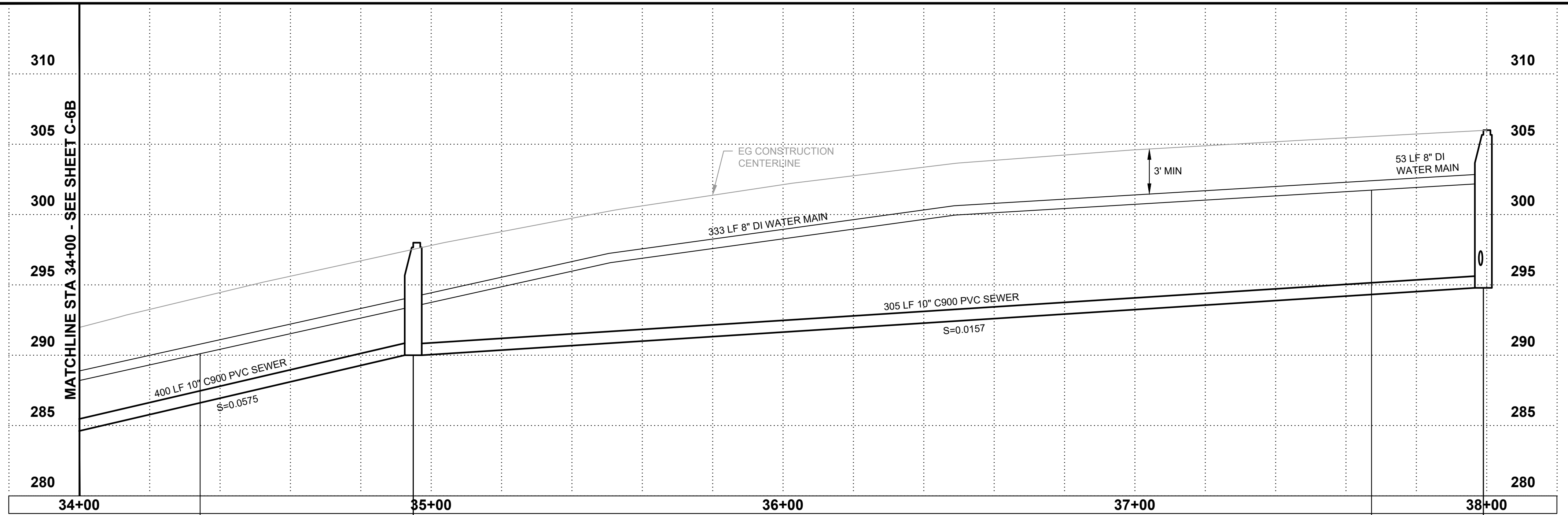
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MATCHLINE STA 34+00 - SEE SHEET C-6B



FIRE HYDRANT ASSEMBLY
STA. 34+34.3, 29.3' LT

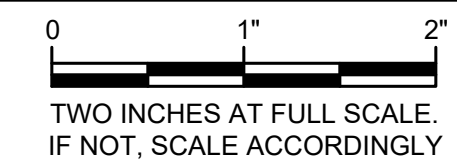
SSMH NO. 32 - 48" Ø
STA. 34+95.00, 7.0' RT
RIM=298.0
IE=290.0 10" PVC SE
IE=290.0 10" PVC NW

FIRE HYDRANT ASSEMBLY
STA. 37+67.3, 29.6' LT

SSMH NO. 33 - 48" Ø
STA. 37+99.10, 6.7' RT
RIM=306.0
IE=294.79 10" PVC SE
IE=294.79 10" PVC NE

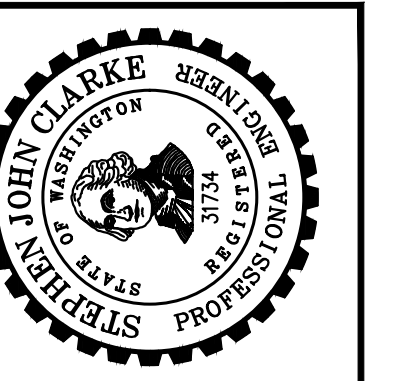
**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

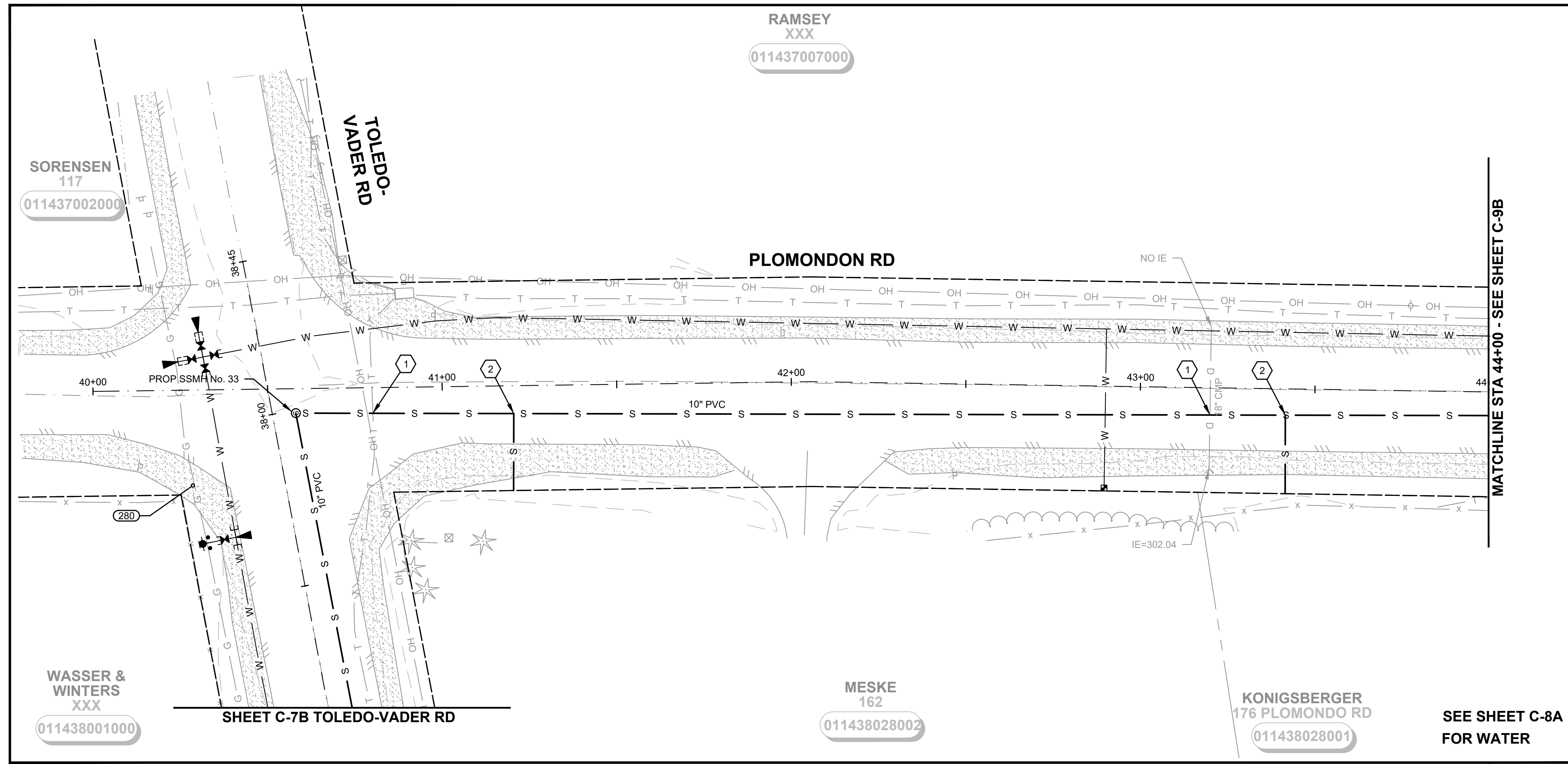
NO.	REVISION	DATE	APPD



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 34+00 TO 38+00

SHEET: **C-7B**
OF: **25**
JOB NO.: 20227.00
DWG: DWG_SS_2_PLN_PRF

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\SS_3_PLN_PRJ.dwg, 1/14/2022, 4:25 PM, ARTEMIS ZAFARI



RIGHT-OF-WAY DISCLAIMER

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SCALE: HORIZONTAL 1"=20'
VERTICAL 1"=5'

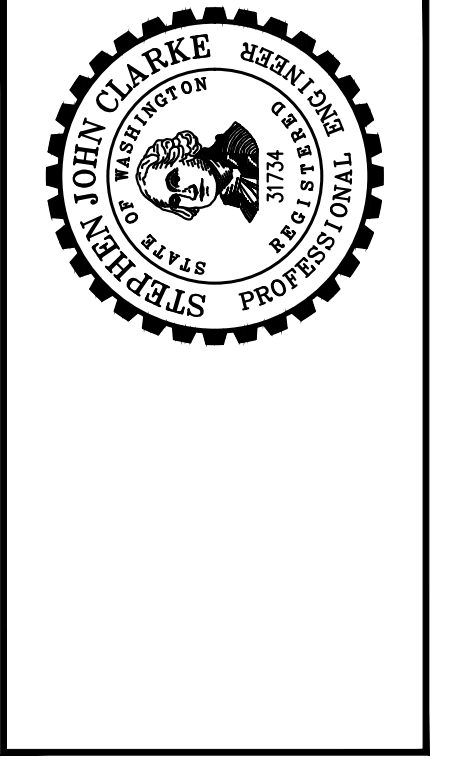
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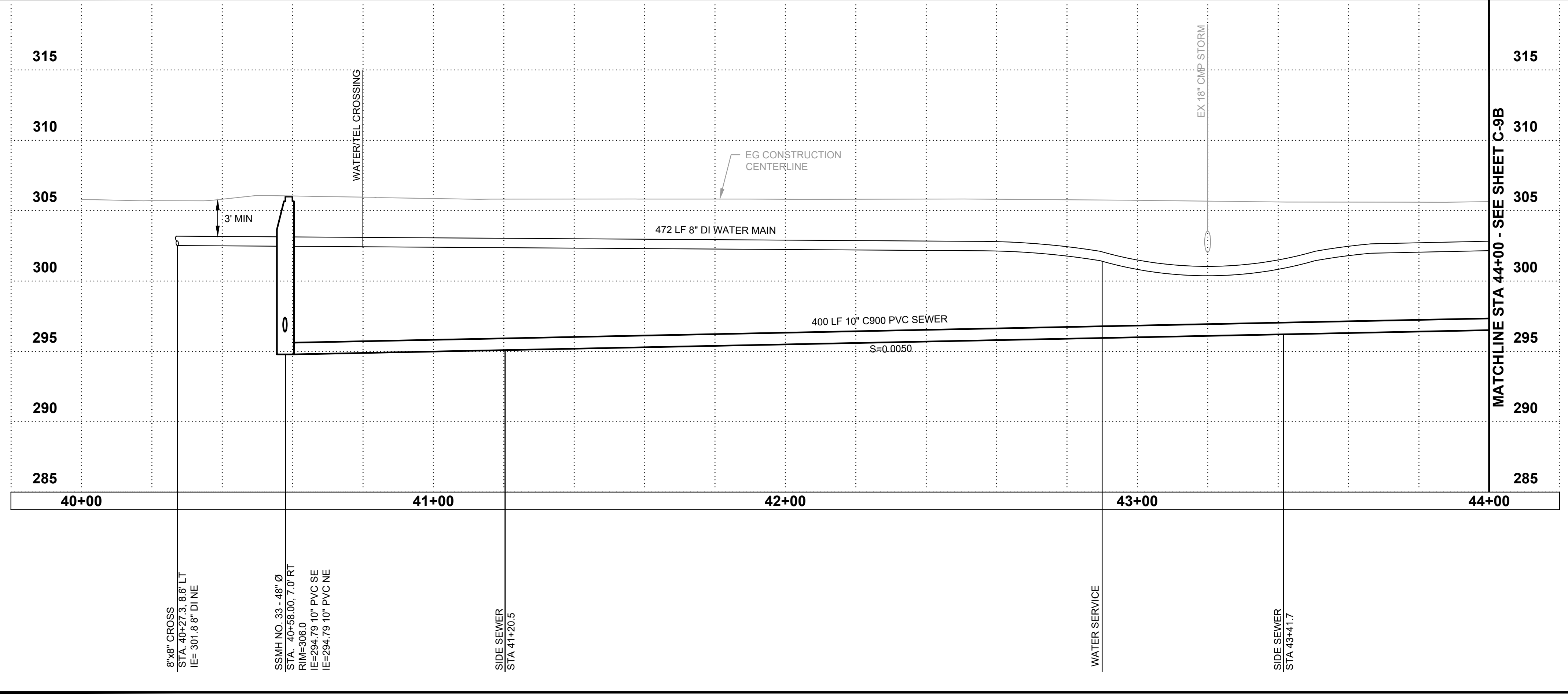
Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARROLL DRIVE SW, BLDG. 1
OLYMPIA, WA 98512 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

NO.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 40+00 TO 44+00



BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

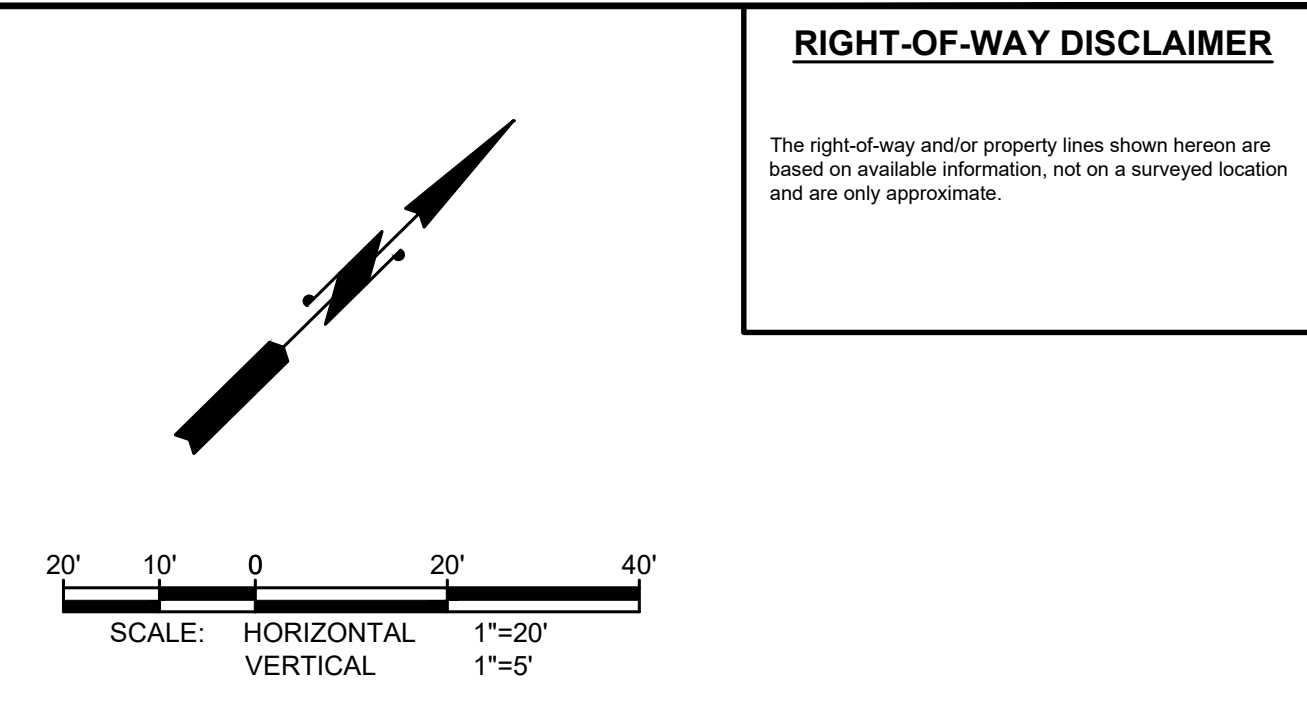
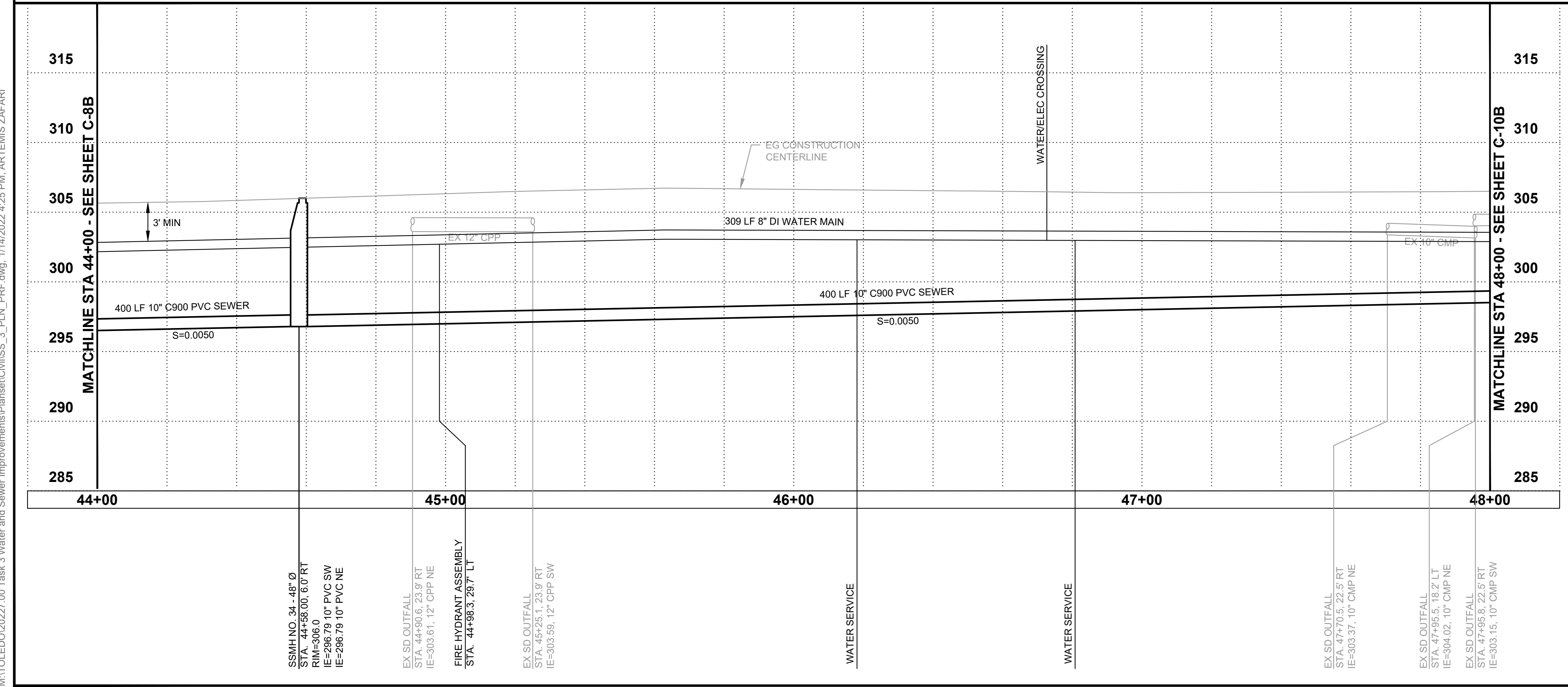
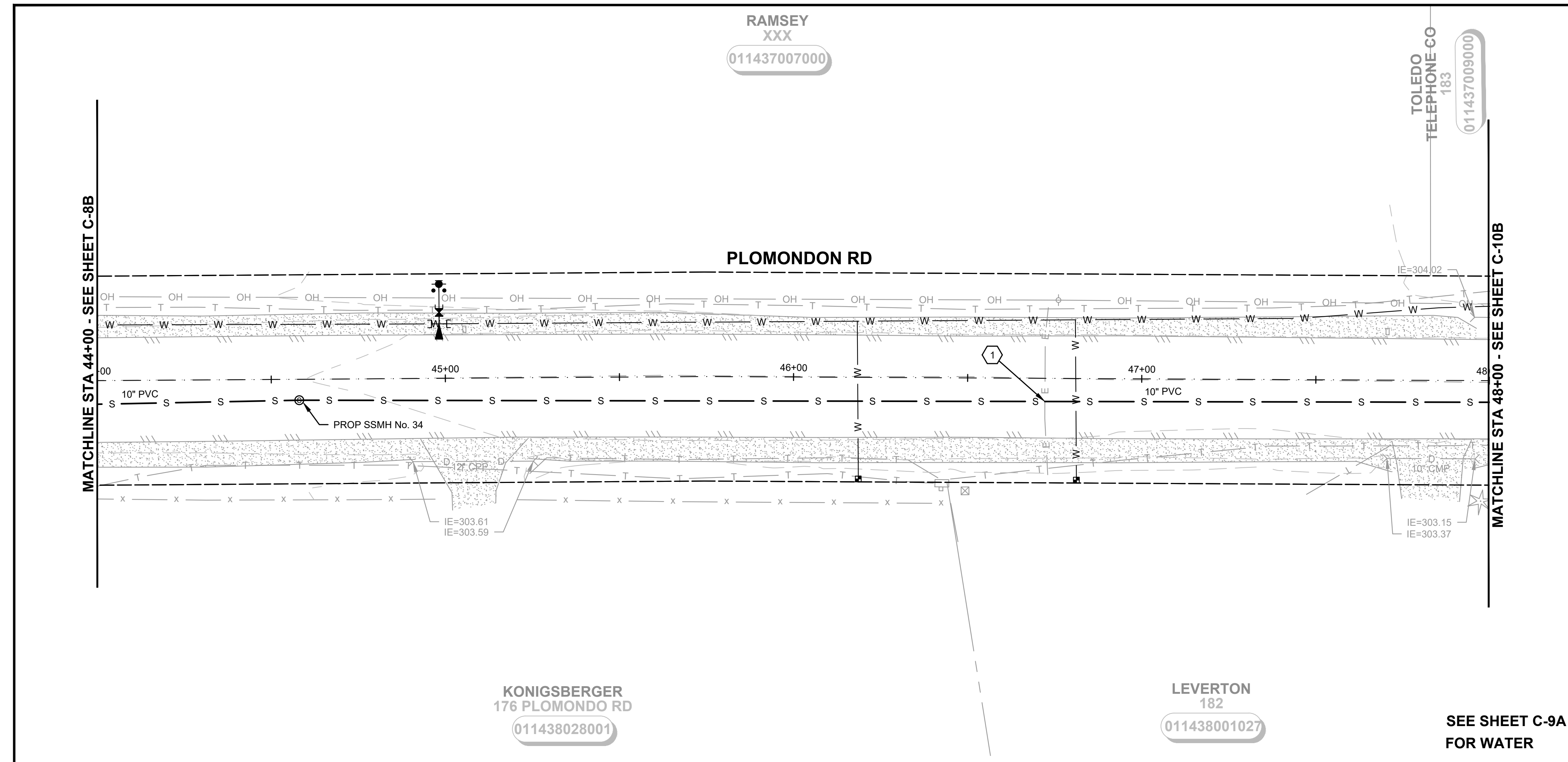
EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET: **C-8B**
OF: **25**

JOB NO.: 20227.00
DWG: SS_3_PLN_PRJ

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\SS_3_PLN_PRF.dwg, 1/14/2022, 4:25 PM, ARTEMIS ZAFARI



RIGHT-OF-WAY DISCLAIMER
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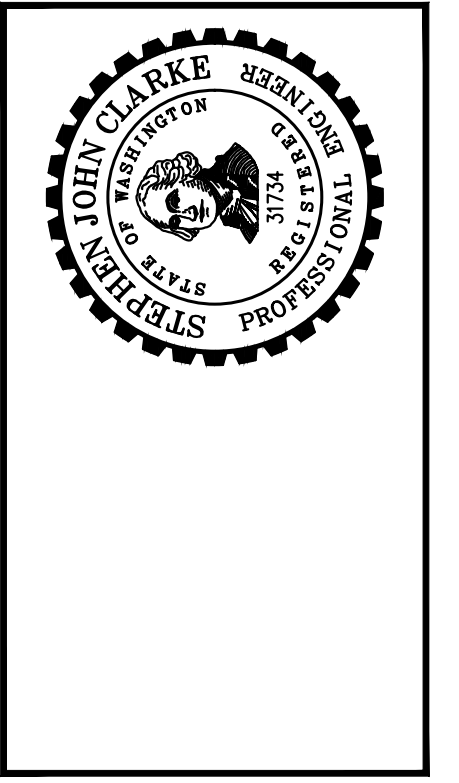
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARRIAGE DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

NO.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 44+00 TO 48+00

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET: **C-9B**
OF: **25**

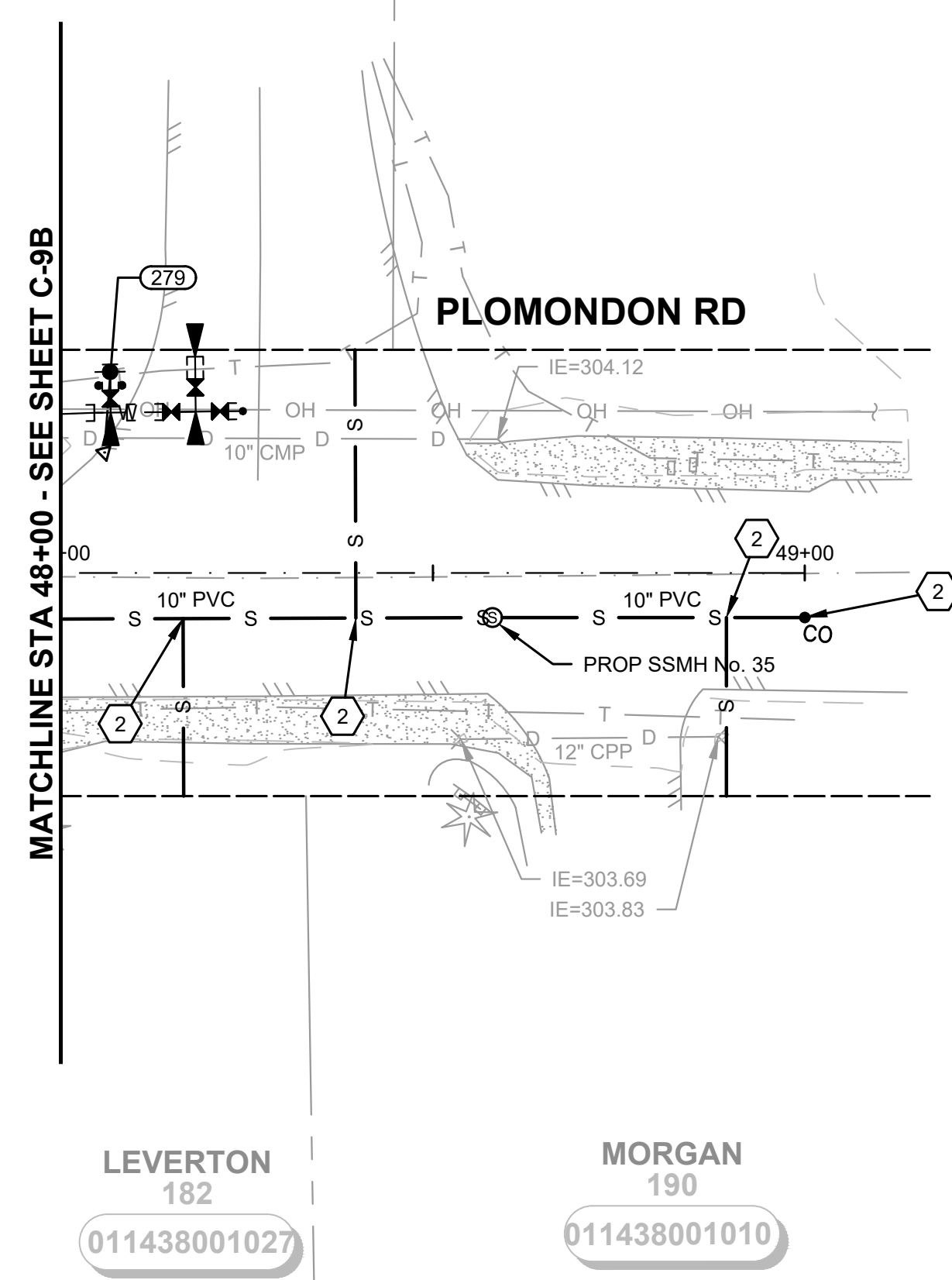
JOB NO.: 20227.00
DWG SS_3_PLN_PRF

TOLEDO TELEPHONE CO
183

011437009000

RAMSEY
XXX

011437008000



SEE SHEET C-10A
FOR WATER

RIGHT-OF-WAY DISCLAIMER

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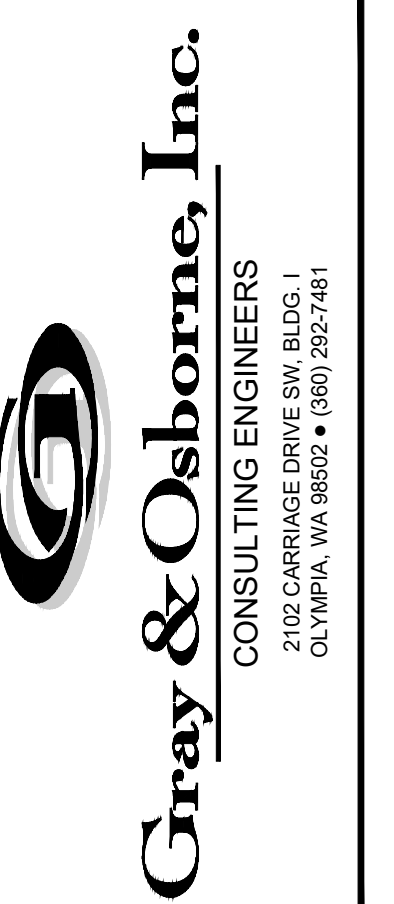


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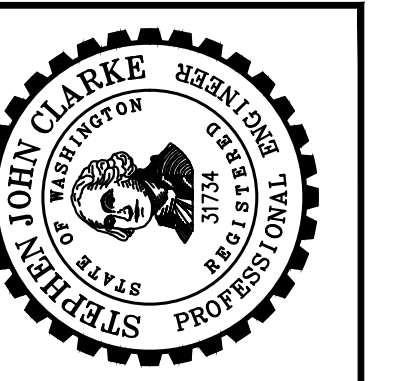
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DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

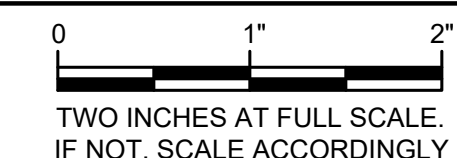
No.	REVISION	DATE	APPD



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
GRAVITY SEWER PLAN AND PROFILE
STA 48+00 TO 49+00

**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

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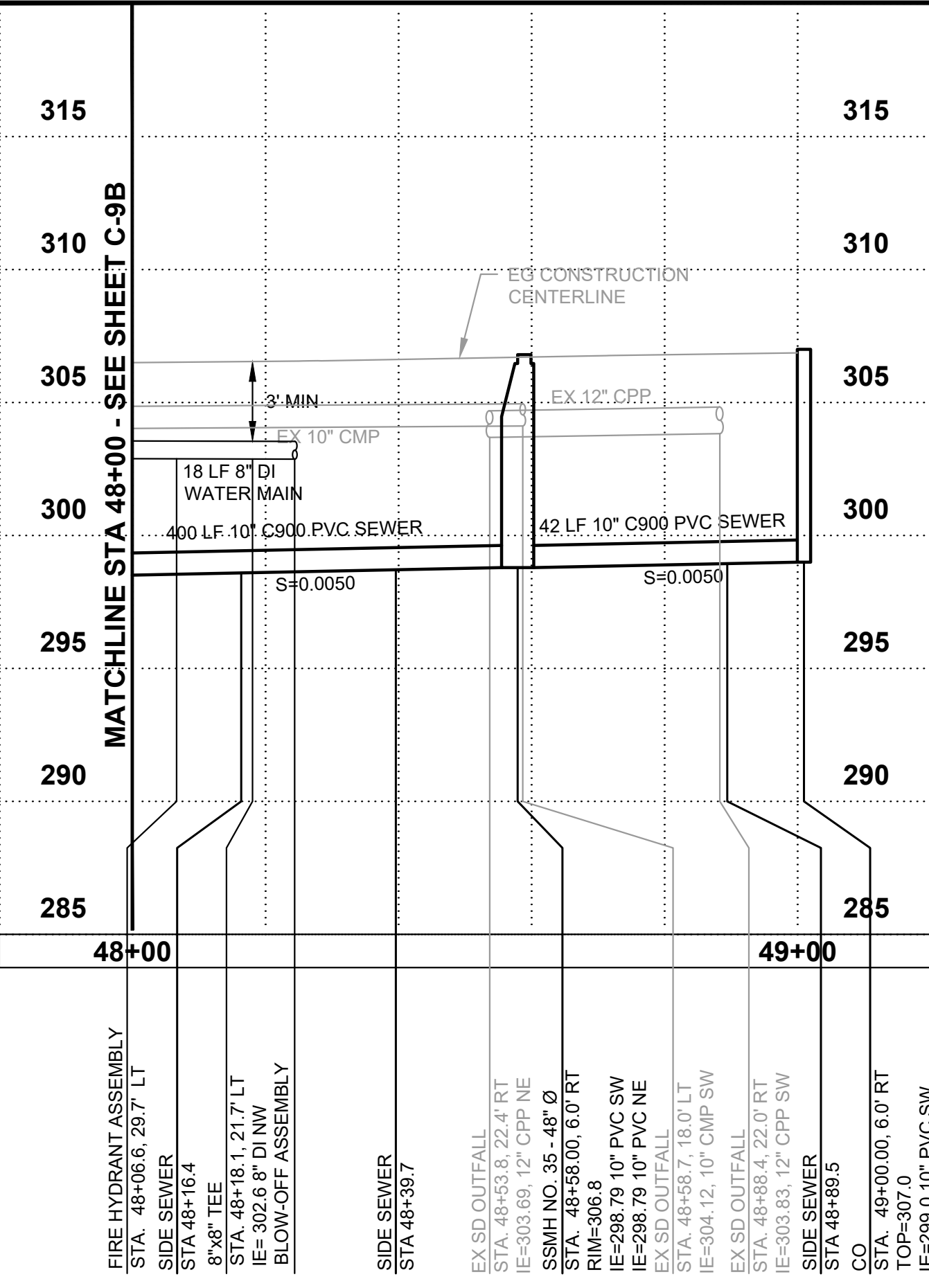
SHEET: **C-10B**

OF: **25**

JOB NO.: 20227.00

DWGSS_3_PLN_PRF

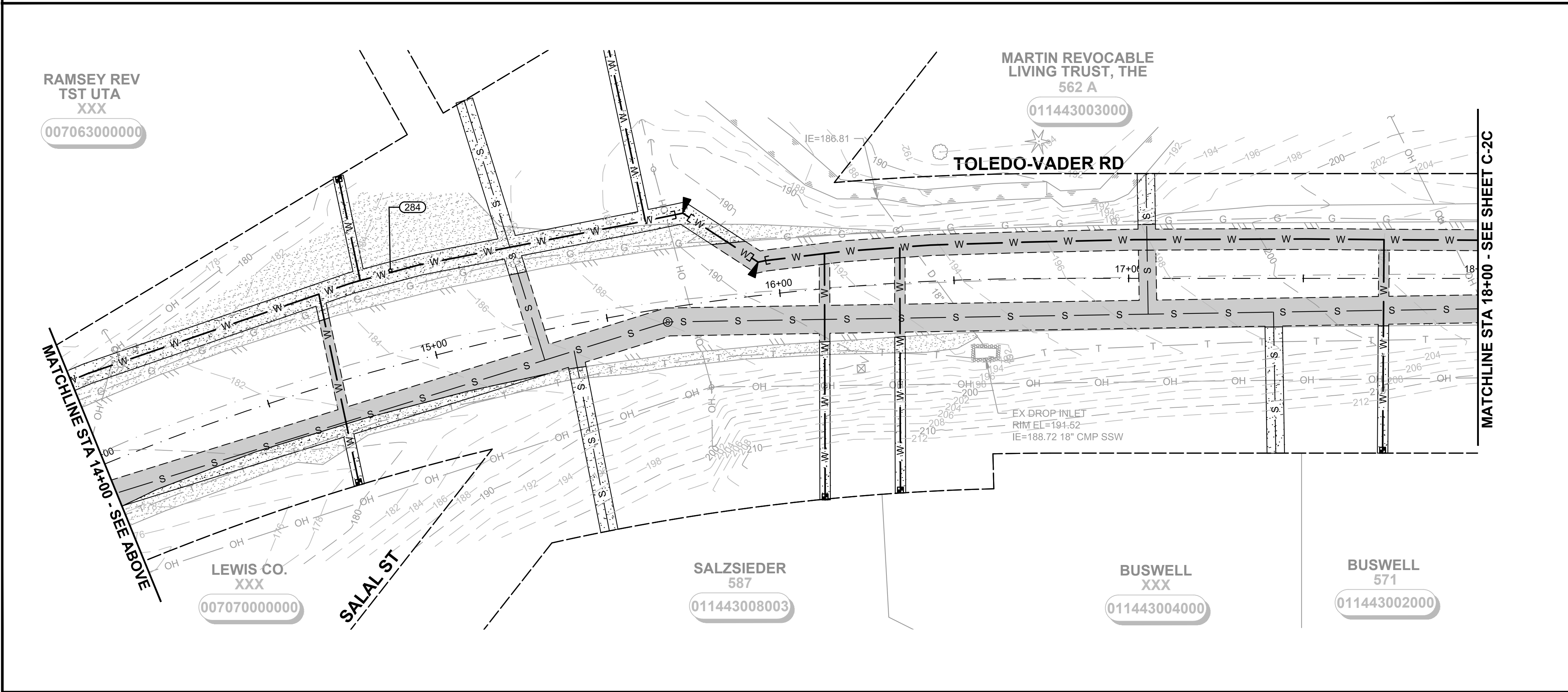
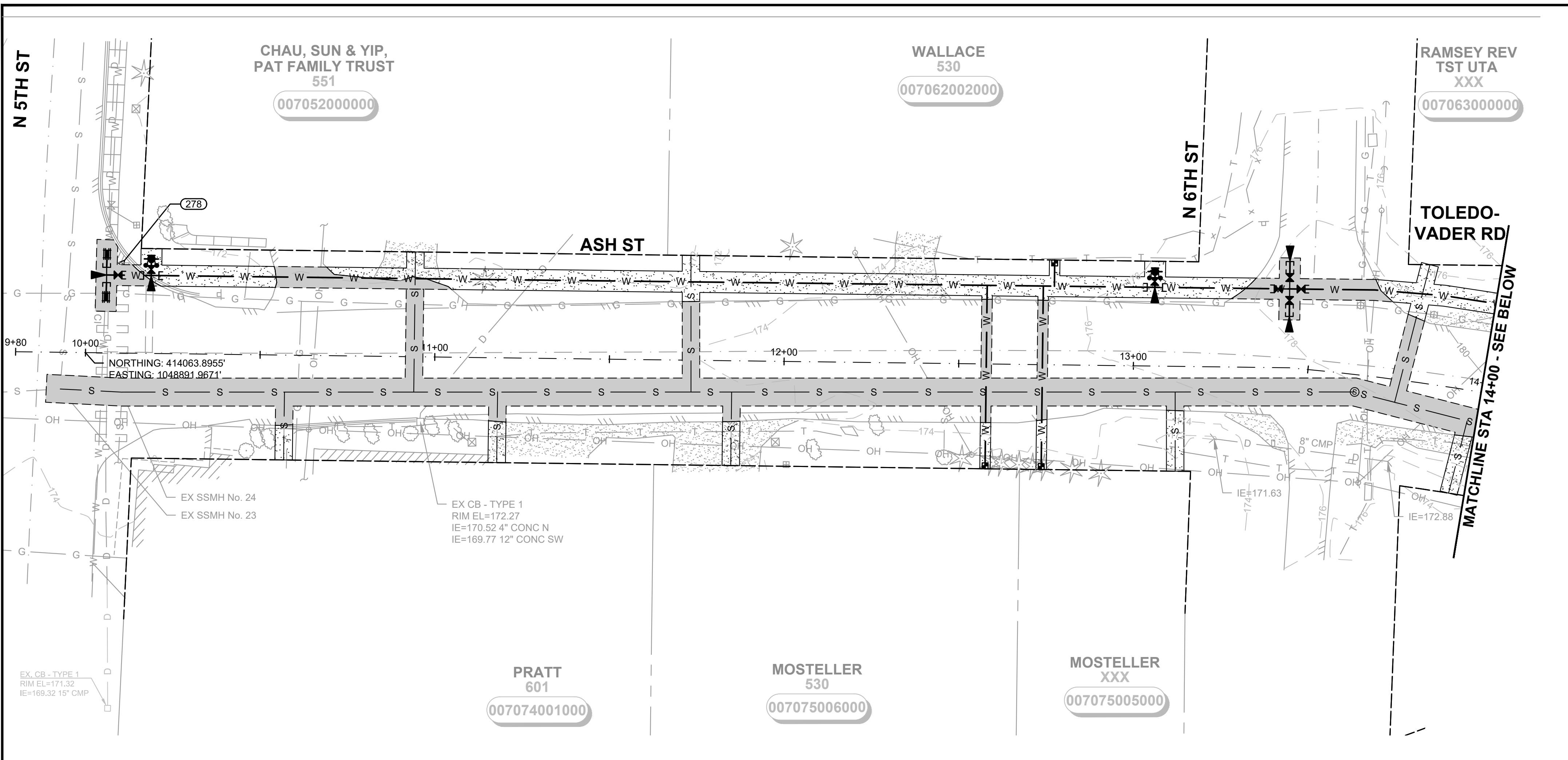
M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\Civil\SS_3_PLN_PRF.dwg, 1/14/2022, 4:26 PM, ARTEMIS ZAFARI



MATCHLINE STA 48+00 - SEE SHEET C-9B

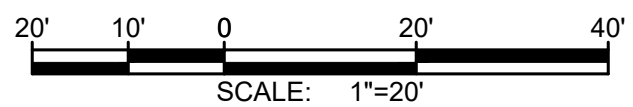
- FIRE HYDRANT ASSEMBLY
STA. 48+06.6, 29.7' LT
- SIDE SEWER
STA. 48+16.4
- 8"x8" TEE
STA. 48+18.1, 21.7' LT
- IE=302.6 8" DI NW
BLOW-OFF ASSEMBLY
- SIDE SEWER
STA. 48+38.7
- EX. SD. OUTFALL
STA. 48+53.8, 22.4' RT
- IE=303.69, 12" CPP NE
SSMH NO. 35, 48" Ø
- STA. 48+58.00, 6.0' RT
- RIM=306.8
- IE=288.79, 10" PVC SW
- IE=288.79, 10" PVC NE
- EX. SD. OUTFALL
STA. 48+67.4, 18.0' LT
- IE=304.12, 10" CMP SW
- EX. SD. OUTFALL
STA. 48+88.4, 22.0' RT
- IE=303.83, 12" CPP SW
- SIDE SEWER
STA. 48+89.5
- CO
STA. 48+00.00, 6.0' RT
- TOP=307.0
- IE=299.0, 10" PVC SW

M:\TOLEDO\2022\00 Task 3 Water and Sewer Improvements\PlanSet\Civil\RESTORATION.dwg, 11/14/2022 4:27 PM, ARTEMIS ZAFARI



RIGHT-OF-WAY DISCLAIMER

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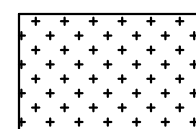
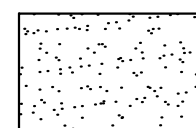
GENERAL NOTES:

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2. RESTORE ALL DISTURBED PAVEMENT MARKINGS IN KIND AS REQUIRED.
3. PROTECT EXISTING LANDSCAPING.
4. PROTECT OR REPLACE ALL EXISTING CURBS.

RESTORATION NOTES:

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2. RESTORE CURB TO EXISTING CONDITION.
3. RESTORE CEMENT CONCRETE SIDEWALK TO EXISTING CONDITION TO NEAREST JOINT AS DIRECTED BY THE ENGINEER.

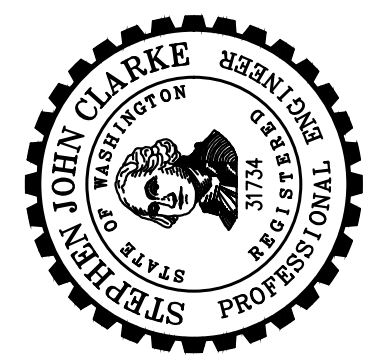
LEGEND:

-  HMA TRENCH PATCH
SEE DETAIL X, SHEET X
-  TOPSOIL/HYDROSEED
SEE DETAIL X, SHEET X
-  GRAVEL RESTORATION
SEE DETAIL X, SHEET X



DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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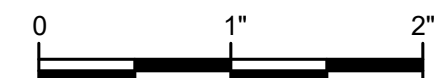
No.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
RESTORATION STA 10+00-18+00

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



SHEET:	C-1C
OF:	25
JOB NO.:	20227.00
DWG RESTORATION	

MARTIN REVOCABLE
LIVING TRUST, THE
562 A

011443003000

WASSER & WINTERS
XXX

011438001000

TOLEDO-VADER RD

MATCHLINE STA 18+00 - SEE SHEET C-1C

MATCHLINE STA 22+00 - SEE BELOW

BUSWELL
571

011443002000

SALZSIEDER
587

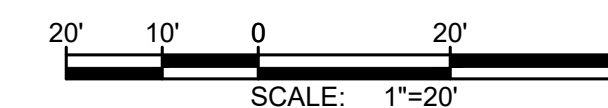
011443008003

MOON
XXX

011438001025

RIGHT-OF-WAY DISCLAIMER

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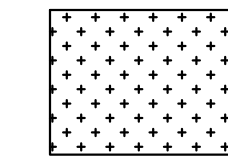
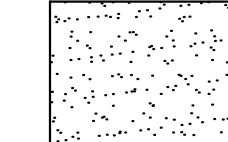
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3. RESTORE CEMENT CONCRETE SIDEWALK TO EXISTING CONDITION TO NEAREST JOINT AS DIRECTED BY THE ENGINEER.

LEGEND:

-  HMA TRENCH PATCH
SEE DETAIL X, SHEET X
-  TOPSOIL/HYDROSEED
SEE DETAIL X, SHEET X
-  GRAVEL RESTORATION
SEE DETAIL X, SHEET X

WASSER & WINTERS
XXX

011438001000

TOLEDO-VADER RD

MATCHLINE STA 22+00 - SEE ABOVE

MATCHLINE STA 26+00 - SEE SHEET C-3C

MOON
XXX

011438001025

KONIGSBERGER
176 PLOMONDO RD

011438028001

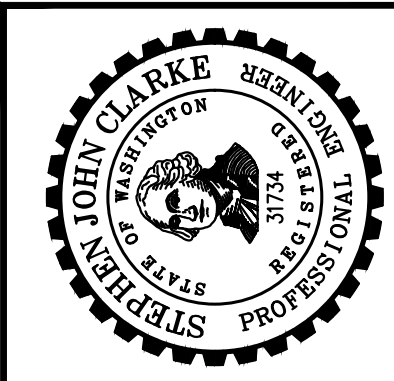
**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

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DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

REVISION	DATE	APPD
60% PLANSET		
No.		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
**WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS**
RESTORATION STA 18+00-26+00

SHEET:	C-2C
OF:	25
JOB NO.:	20227.00
DWG RESTORATION	

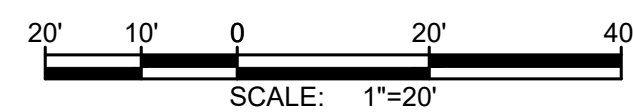
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WASSER &
WINTERS
XXX

011438001000

RIGHT-OF-WAY DISCLAIMER

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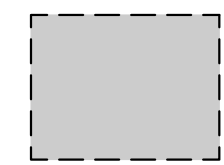
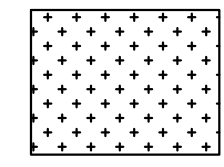

GENERAL NOTES:

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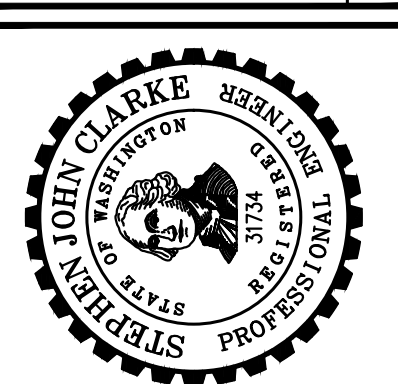
LEGEND:

-  HMA TRENCH PATCH
SEE DETAIL X, SHEET X
-  TOPSOIL/HYDROSEED
SEE DETAIL X, SHEET X
-  GRAVEL RESTORATION
SEE DETAIL X, SHEET X

Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARRIAGE DRIVE SW, BLDG. 1
OLYMPIA, WA 98512 • (360) 252-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

DATE	APPD
REVISION	No.



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
RESTORATION STA 26+00-34+00

SHEET:	C-3C
OF:	25
JOB NO.:	20227.00
DWG RESTORATION	

PUBLIC UTILITY
DIST 1
XXX

011438001017

MESKE
162

011438028002

WASSER &
WINTERS
XXX

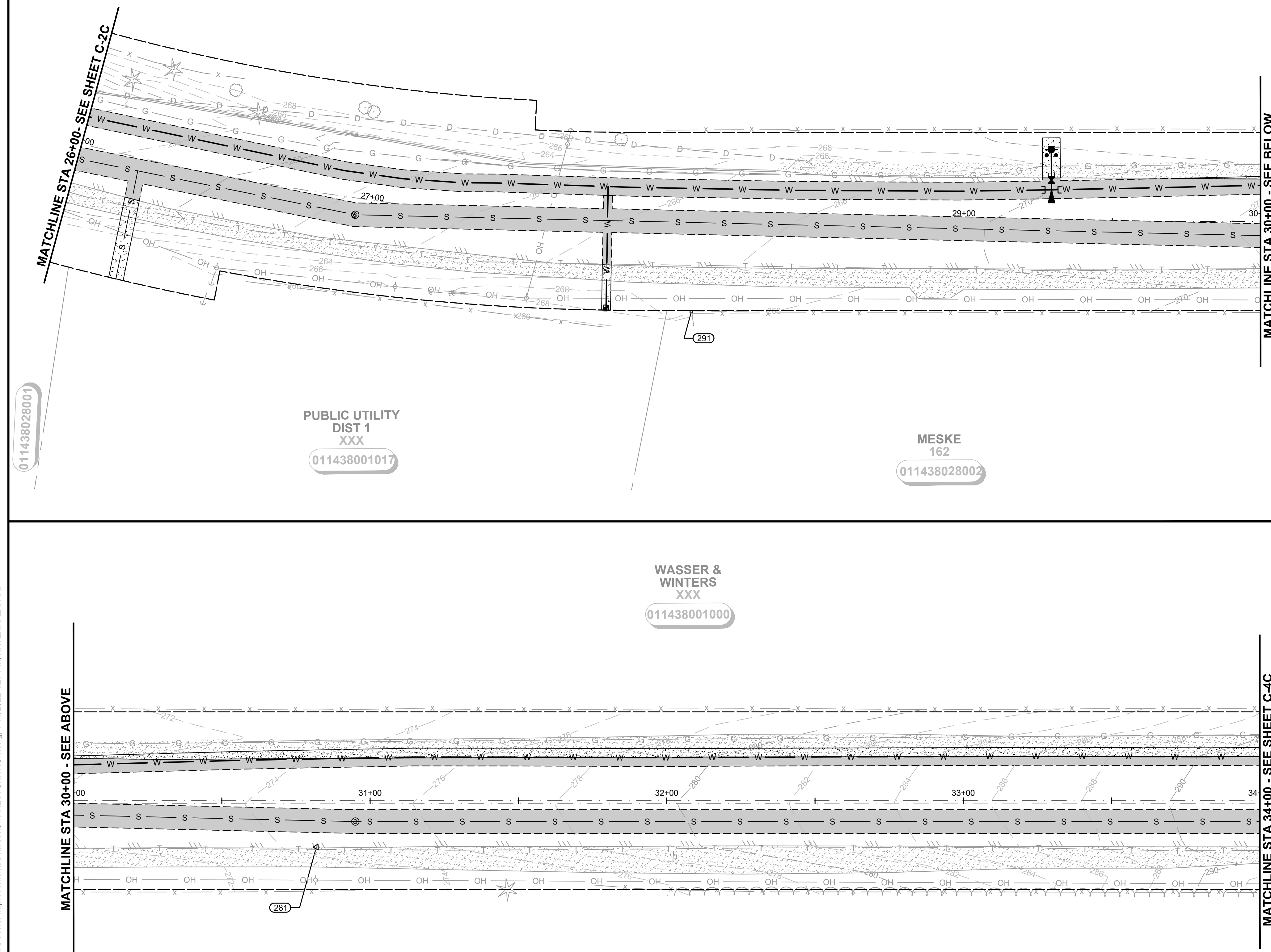
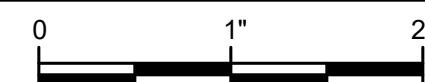
011438001000

MESKE
162

011438028002

BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811

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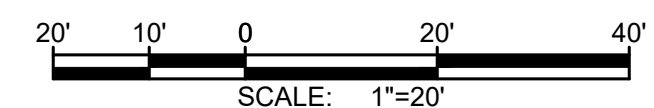
WASSER & WINTERS
XXX

011438001000

WASSER & WINTERS
XXX
011438001000

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LEGEND:

- HMA TRENCH PATCH
SEE DETAIL X, SHEET X
- TOPSOIL/HYDROSEED
SEE DETAIL X, SHEET X
- GRAVEL RESTORATION
SEE DETAIL X, SHEET X

MATCHLINE STA 34+00 - SEE SHEET C-3C

TOLEDO-VADER RD

SEE BELOW FOR PLOMONDO RD

MESKE
162
011438028002

RAMSEY
XXX

011437007000

PLOMONDON RD

SORENSEN
117

011437002000

MATCHLINE STA 44+00 - SEE SHEET C-5C

**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

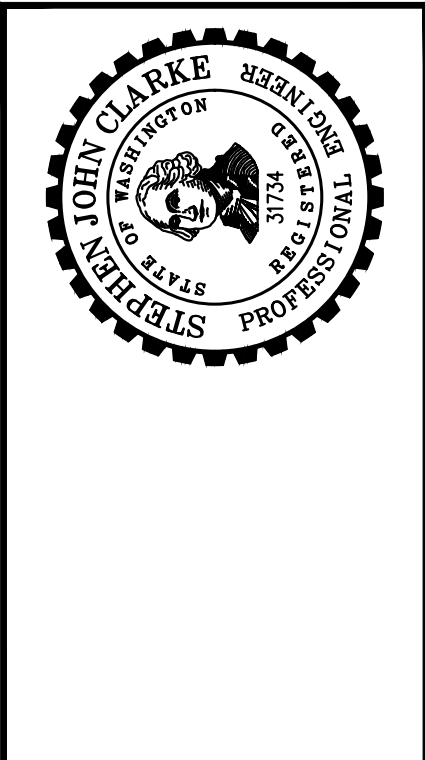
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Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARROLL DRIVE SW, BLDG. 1
OLYMPIA, WA 98502 • (360) 292-7481

DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

REVISION	DATE	APPD



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
RESTORATION STA 34+00-44+00

SHEET:	C-4C
OF:	25
JOB NO.:	20227.00
DWG RESTORATION	

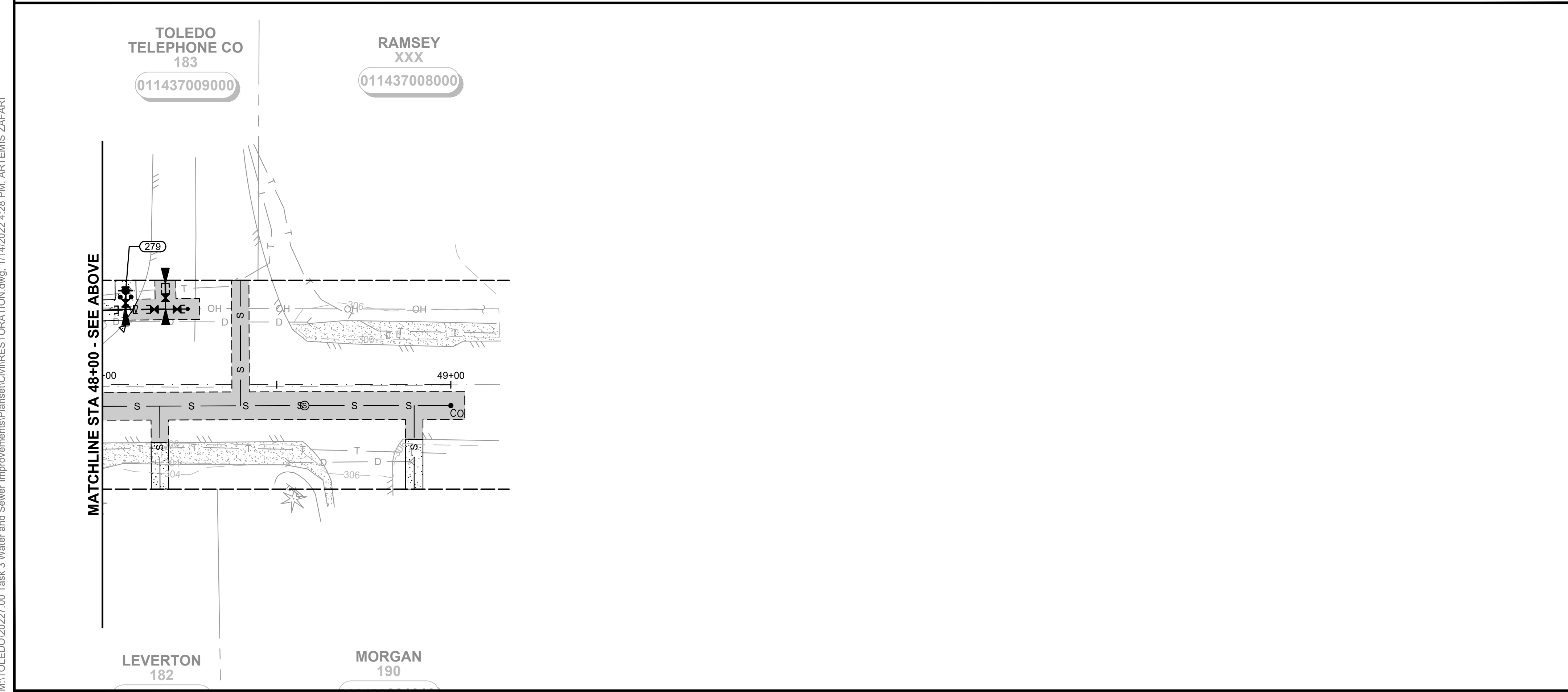
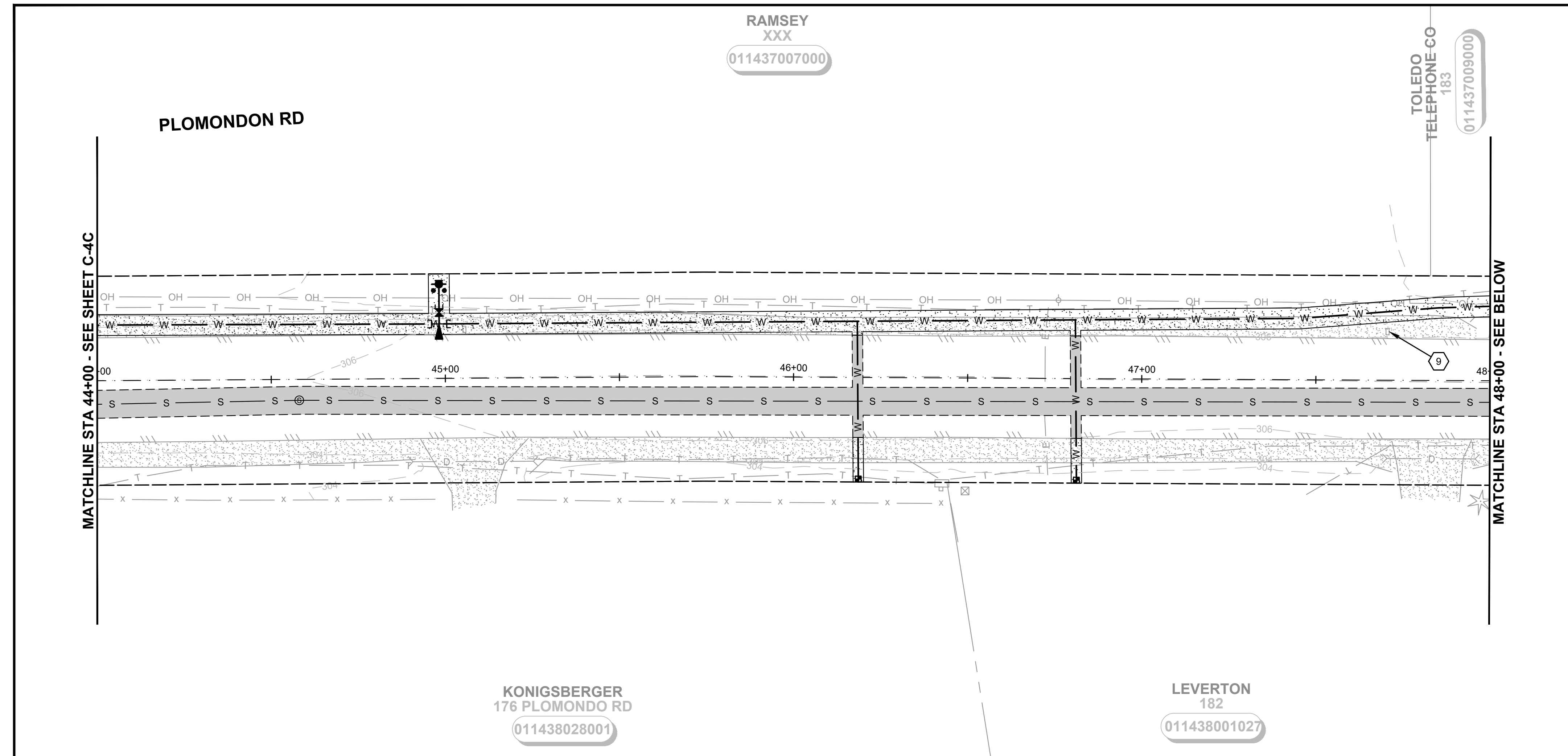
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WASSER & WINTERS

MESKE

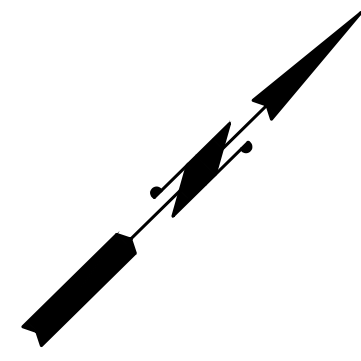
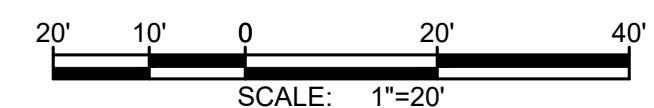
KONIGSBERGER

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RIGHT-OF-WAY DISCLAIMER

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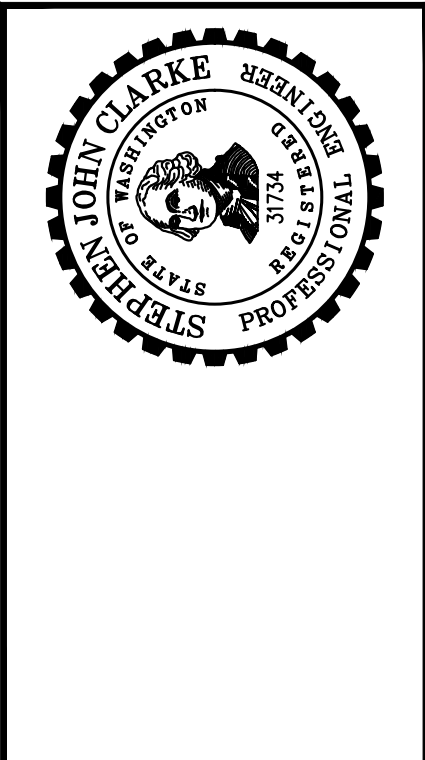
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SEE DETAIL X, SHEET X
- TOPSOIL/HYDROSEED
SEE DETAIL X, SHEET X
- GRAVEL RESTORATION
SEE DETAIL X, SHEET X

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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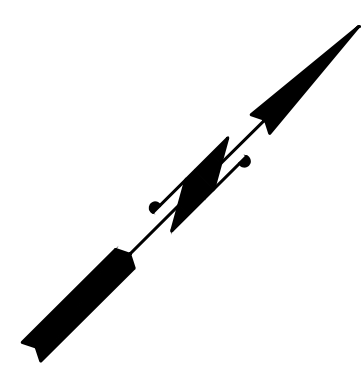
No.	REVISION	DATE	APPD



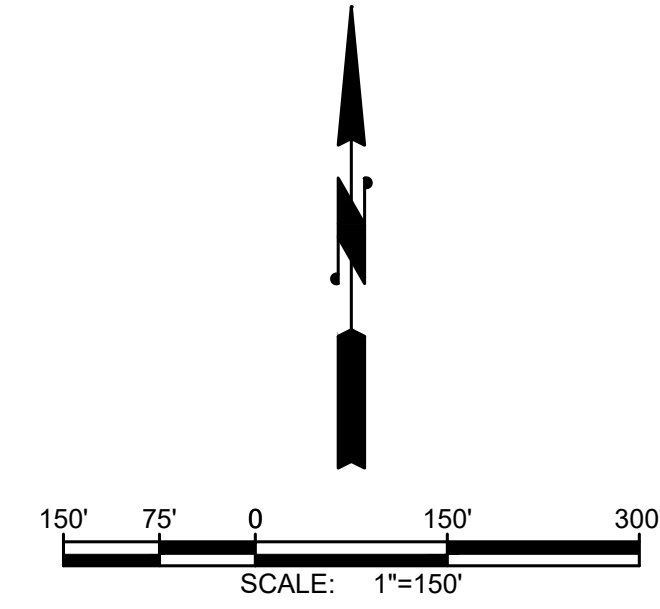
CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE A - WATER IMPROVEMENTS
RESTORATION STA 44+00-49+00

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

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SHEET:	C-5C
OF:	25
JOB NO.:	20227.00
DWG RESTORATION	



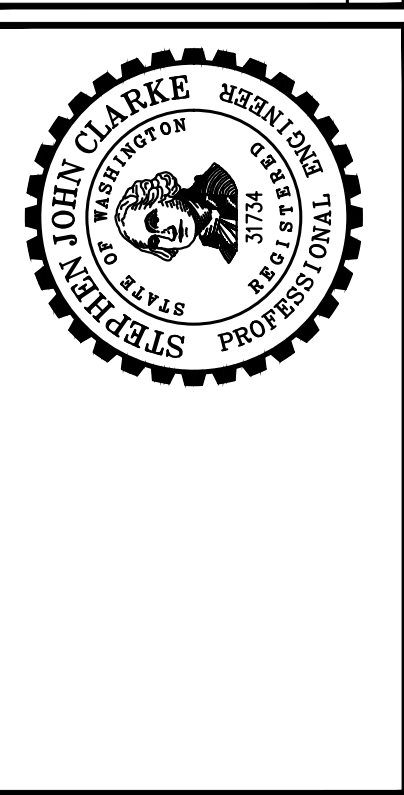
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DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

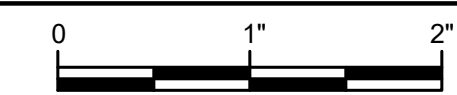
No.	REVISION	DATE	APPD
	60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
EX SITE & EROSION CONTROL RESERVOIR &
BOOSTER STATION SITE

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

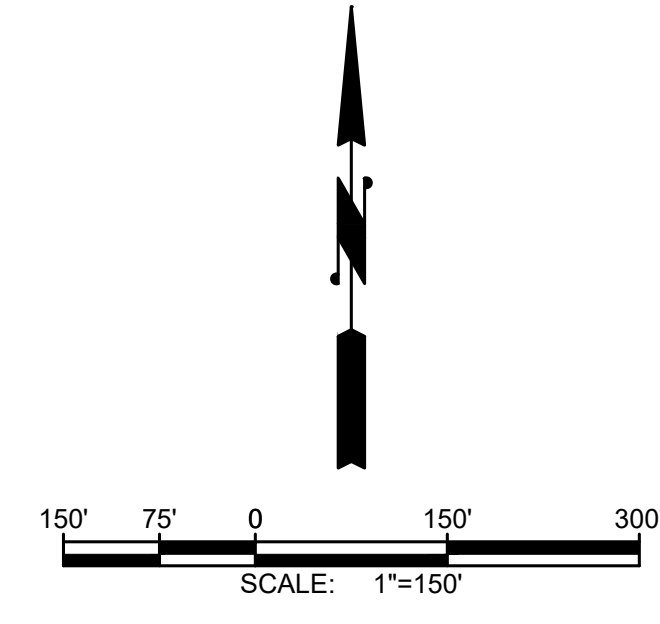
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET:	C-1D
OF:	25
JOB NO.:	20227.00
DWGRES_SITE	

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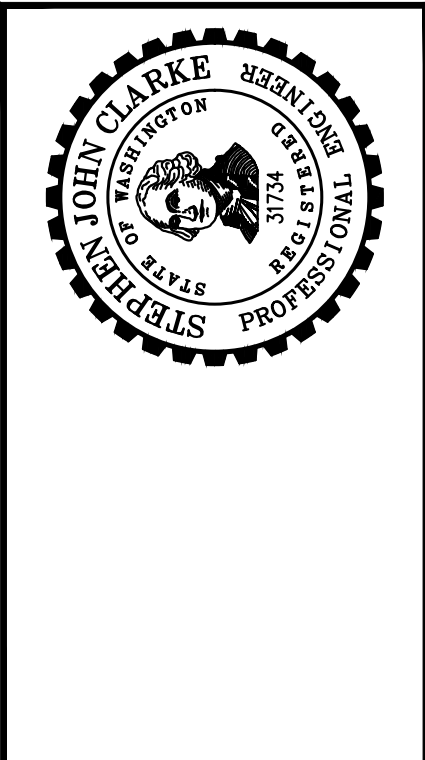
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APPROVED:	JMH

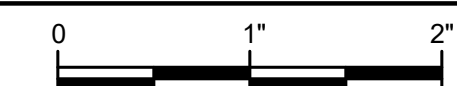
No.	REVISION	DATE	APPD
	60% PLANSET		



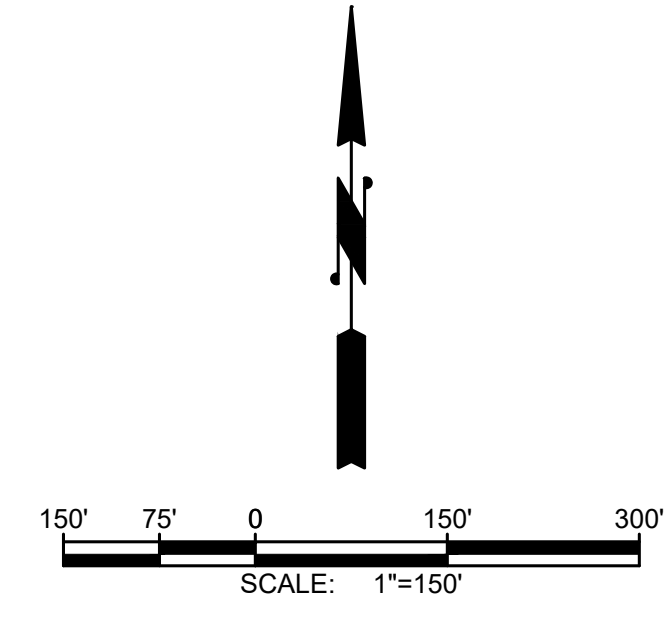
CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
PROPOSED SITE PIPING PLAN

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SHEET:	C-2D
OF:	25
JOB NO.:	20227.00
DWG:	PIPE_PLN



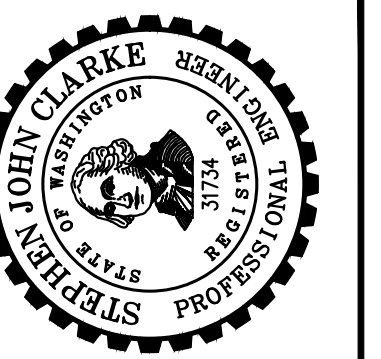
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DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

No.	REVISION	DATE	APPD
	60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
PROPOSED GRADING PLAN

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

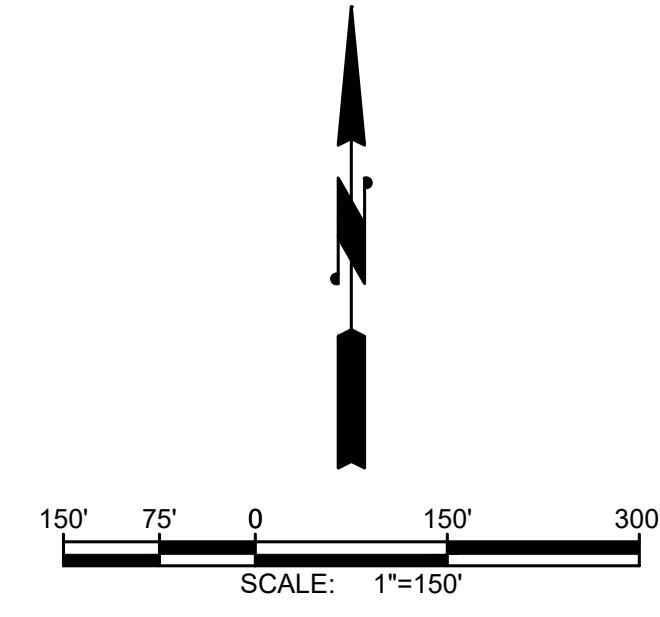
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET:	C-3D
OF:	25
JOB NO.:	20227.00
DWG. GRADE_PLN	

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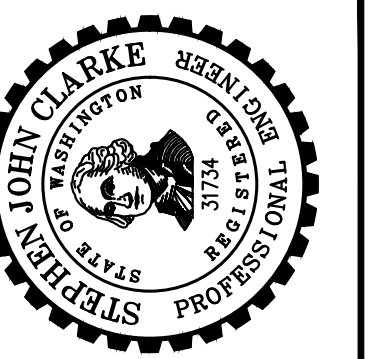
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DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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No.	REVISION	DATE	APPD
	60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
PROPOSED SITE SECTIONS

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

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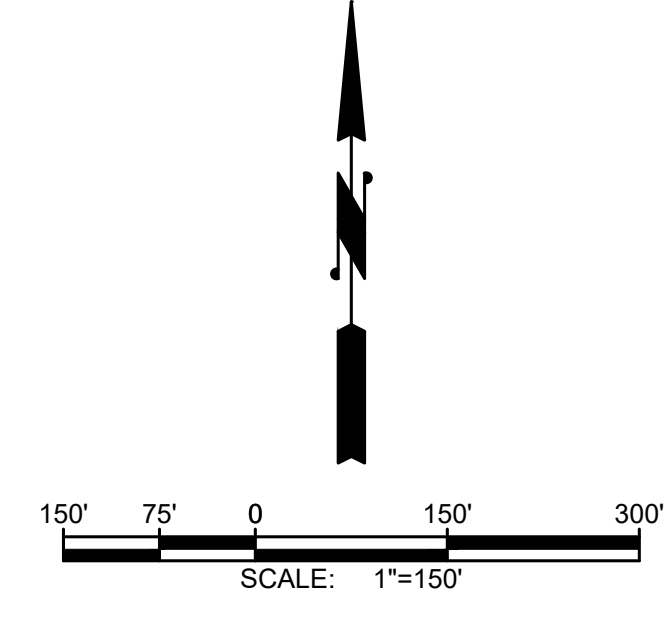
SHEET: **C-4D**

OF: **25**

JOB NO.: 20227.00

DWG: SITE-SECT

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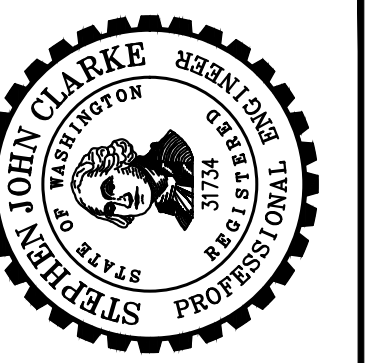
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DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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No.	REVISION	DATE	APPD
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CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE C
RESERVOIR AND BOOSTER STATION
PROPOSED SITE SECTIONS

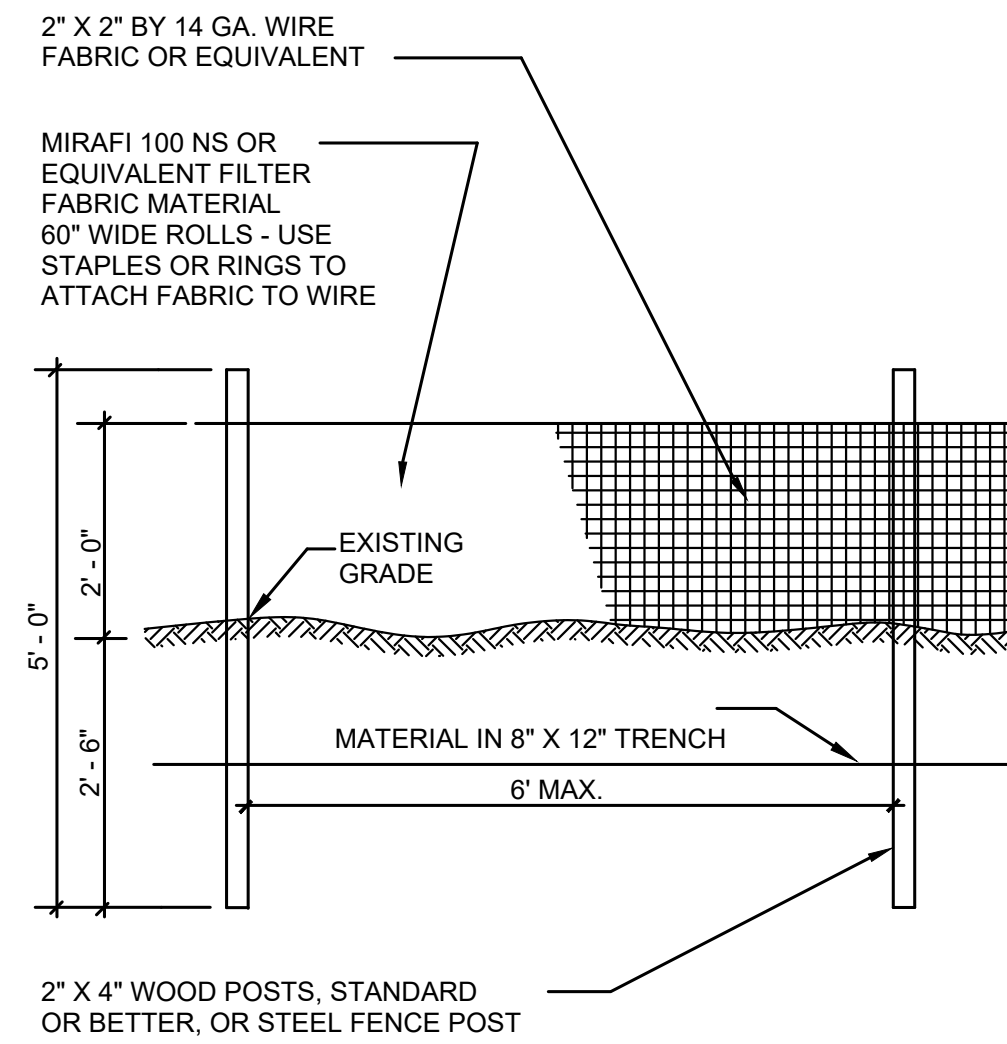
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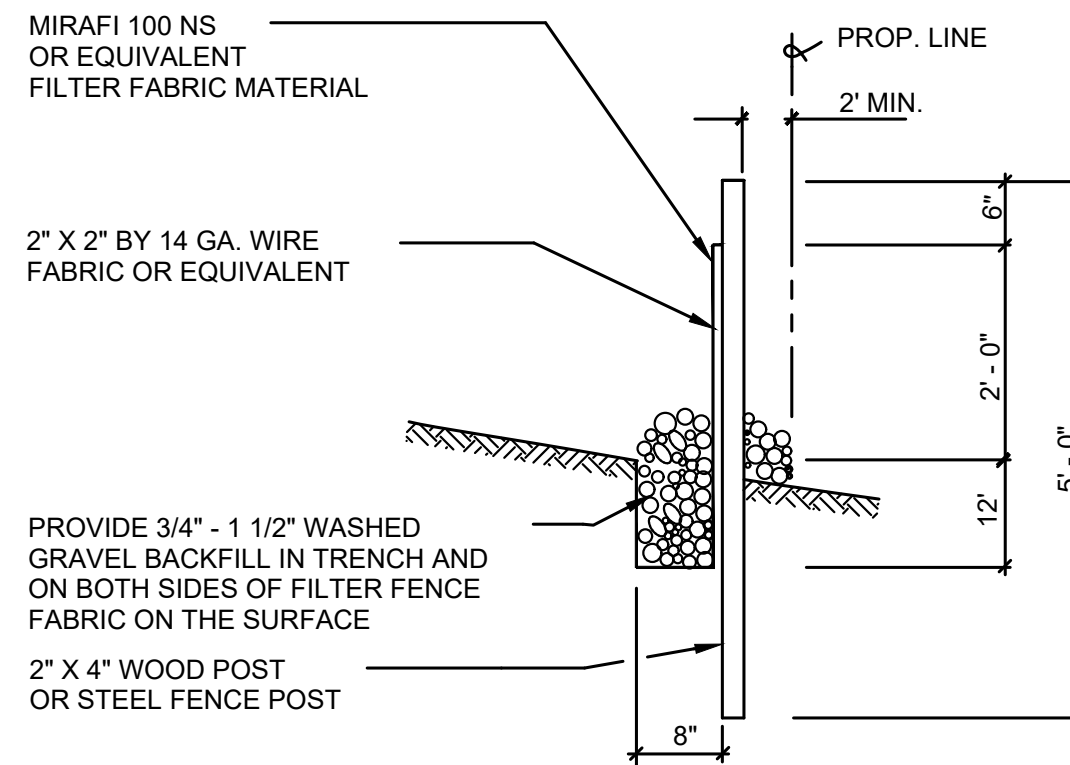


TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

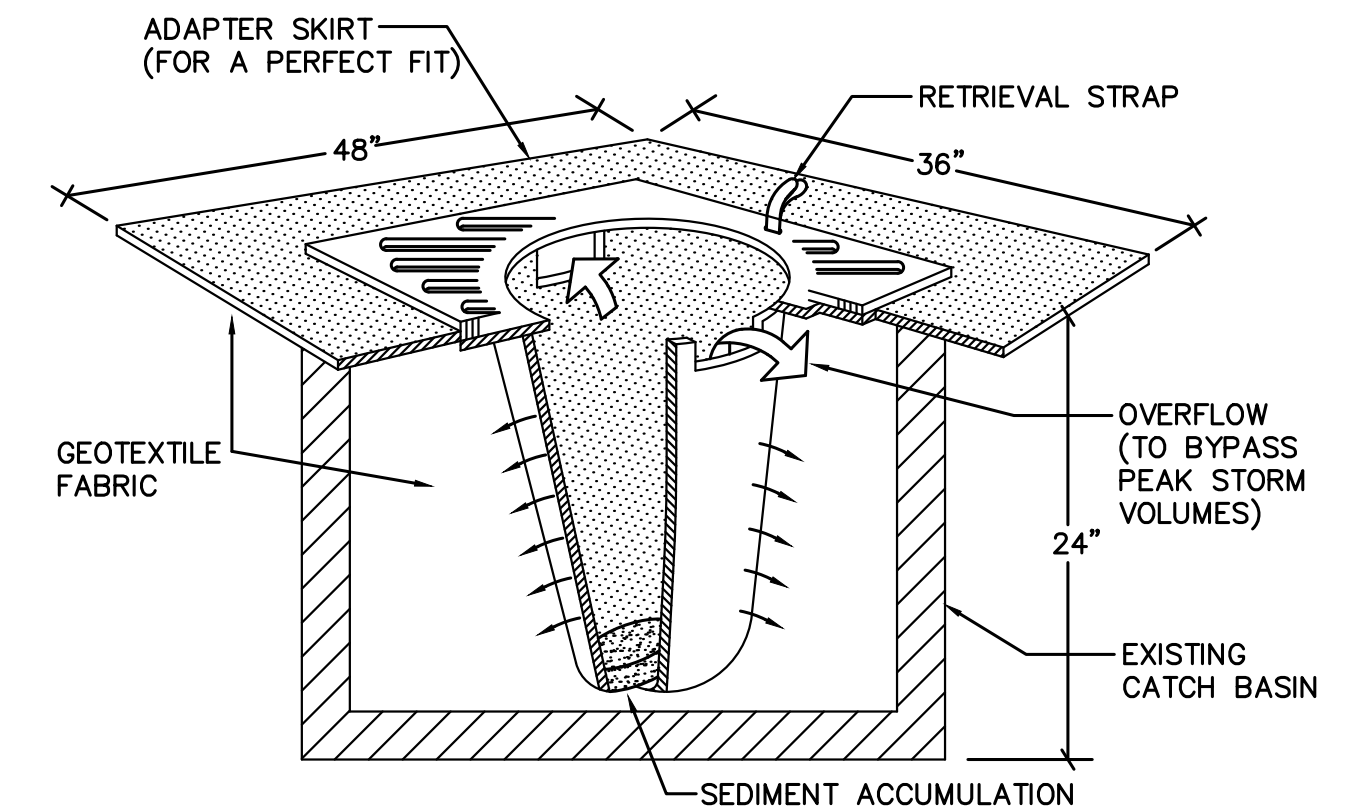
SHEET: C-5D
OF: 25
JOB NO.: 20227.00
DWG: SITE-SECT



1 SILT FENCE ELEVATION
TYP NOT TO SCALE

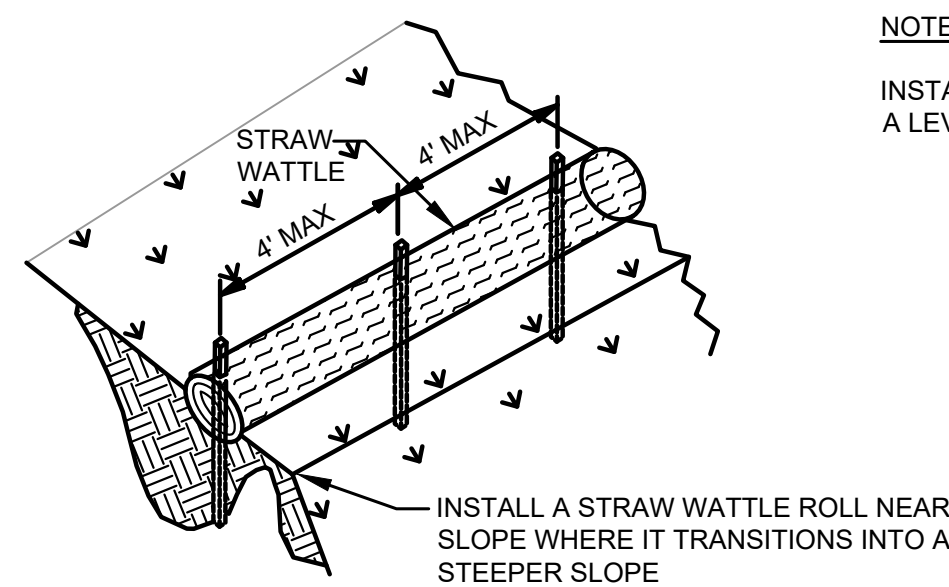


2 SILT FENCE SECTION
TYP NOT TO SCALE

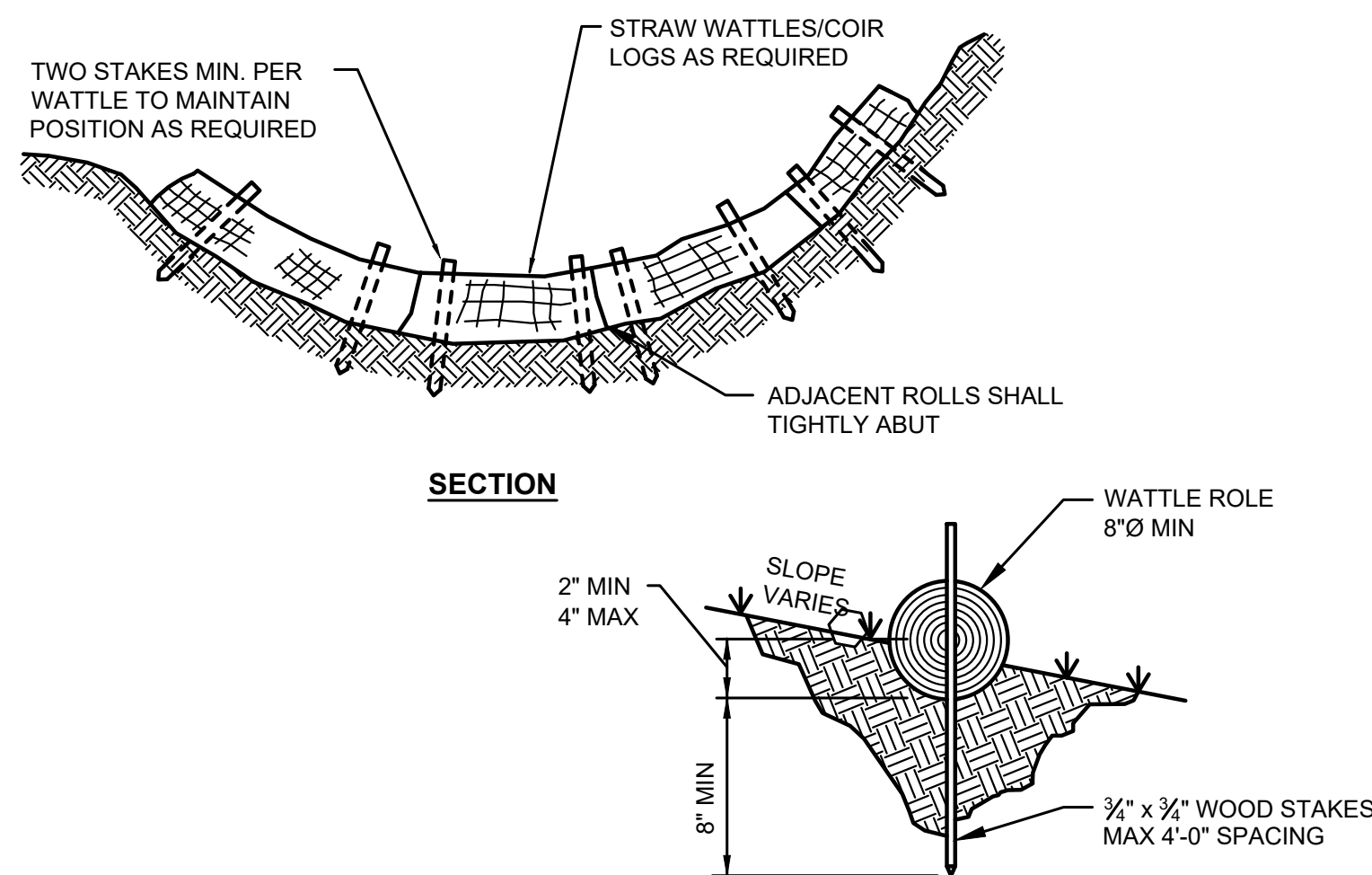


PROVIDE CATCH BASIN SEDIMENT PROTECTION WITH STREAMGUARD BASIN INSERT #3003, FROM FOSS ENVIRONMENTAL OR APPROVED EQUAL
7440 W. MARGINAL WAY S. SEATTLE, WA 98108-4141 PHONE: 1-800-909-3677

3 CATCH BASIN SEDIMENT BARRIER
TYP NOT TO SCALE



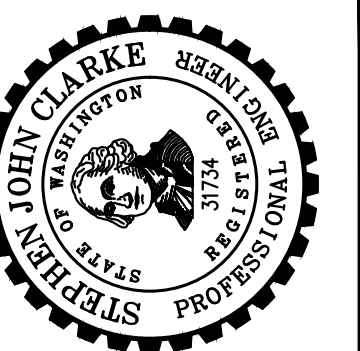
NOTE:
INSTALL WATTLE ROLL ALONG A LEVEL CONTOUR.

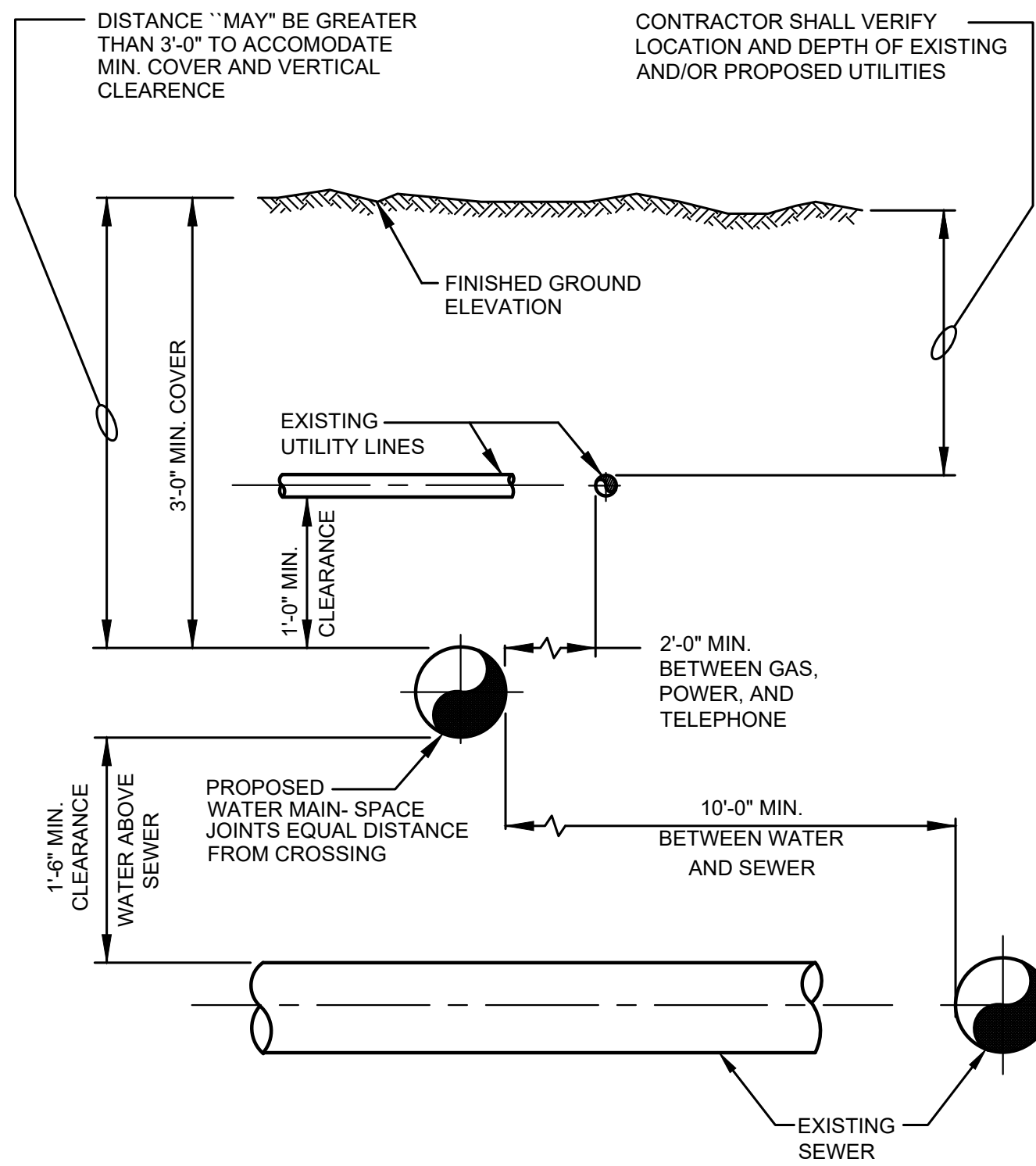


4 STRAW WATTLE ROLL DETAIL
TYP NOT TO SCALE

EROSION/SEDIMENTATION CONTROL NOTES

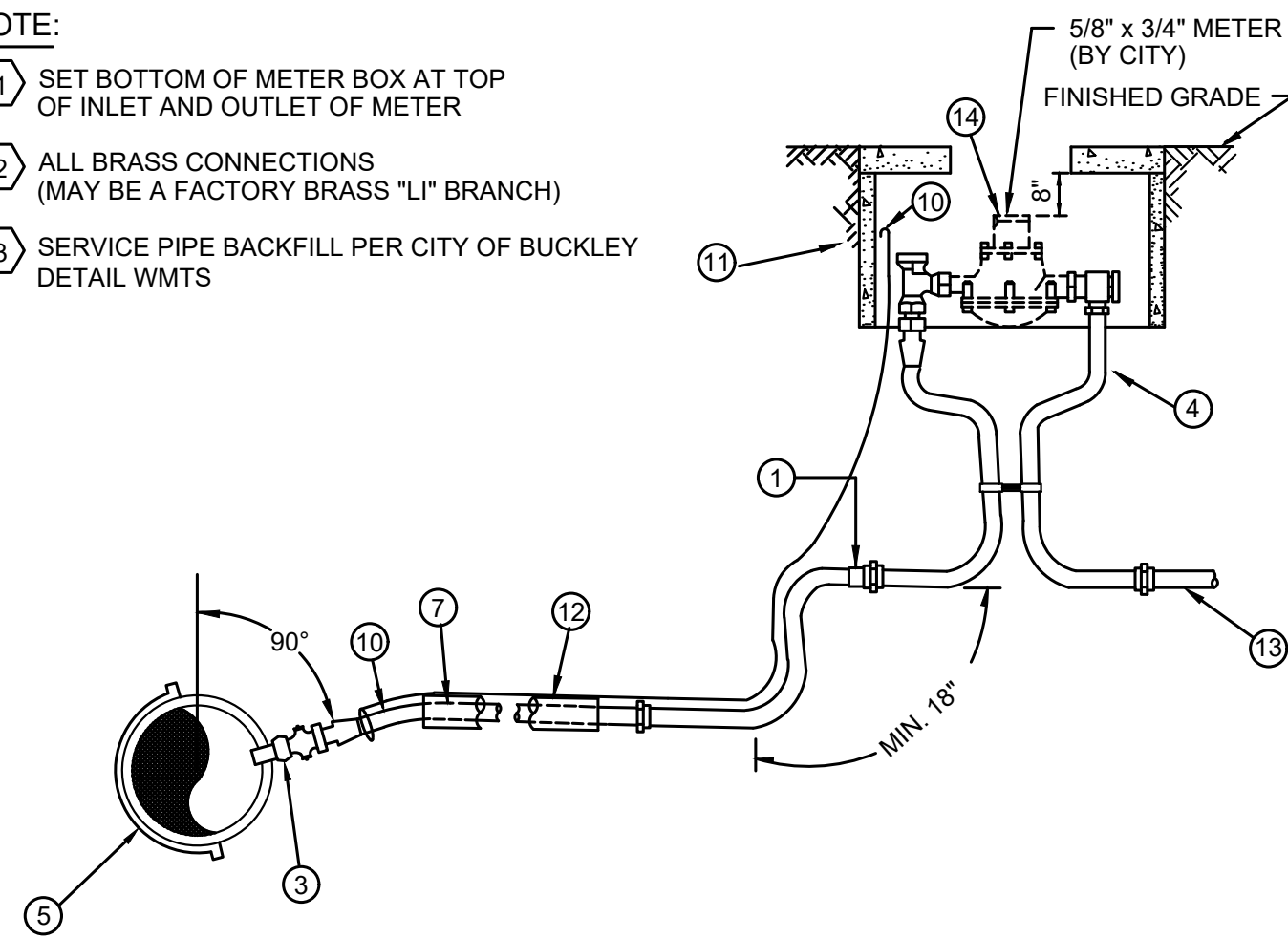
1. CONTRACTOR SHALL SUBMIT TEMPORARY WATER POLLUTION/EROSION CONTROL PLAN PER THE CONTRACT SPECIFICATIONS.
2. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION SHALL BE OBSERVED DURING CONSTRUCTION.
3. ALL REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES MUST BE IN OPERATION PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND /OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO EROSION/SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THIS DRAWING ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND AS UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE PROPOSED SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.
5. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE SEDIMENT. ALL CATCH BASINS, CONVEYANCE LINES AND DITCHES SHALL BE CLEANED PRIOR TO PAVING.
6. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE CITY RIGHT-OF-WAY OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM.
7. TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND MAINTAINED WITHIN 24 HOURS FOLLOWING A STORM EVENT. SEDIMENT SHALL BE REMOVED TO INSURE THE FACILITIES WILL FUNCTION PROPERLY. THE FACILITIES SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
8. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. NO DISTURBED SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS.





1 TYPICAL UTILITY CROSSING
TYP NOT TO SCALE

- NOTE:**
- ① SET BOTTOM OF METER BOX AT TOP OF INLET AND OUTLET OF METER
 - ② ALL BRASS CONNECTIONS (MAY BE A FACTORY BRASS "LI" BRANCH)
 - ③ SERVICE PIPE BACKFILL PER CITY OF BUCKLEY DETAIL WMTS

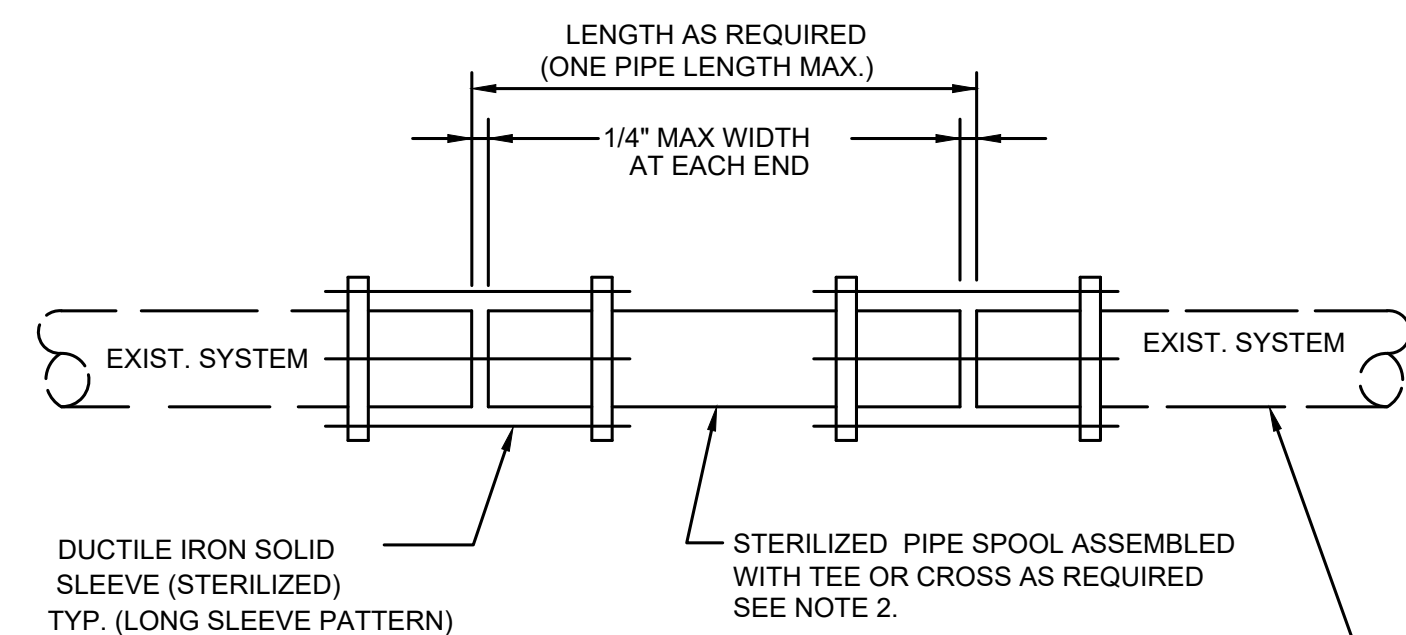


2 WATER SERVICE
TYP NOT TO SCALE

WATER SERVICE DETAIL 1" AND SMALLER

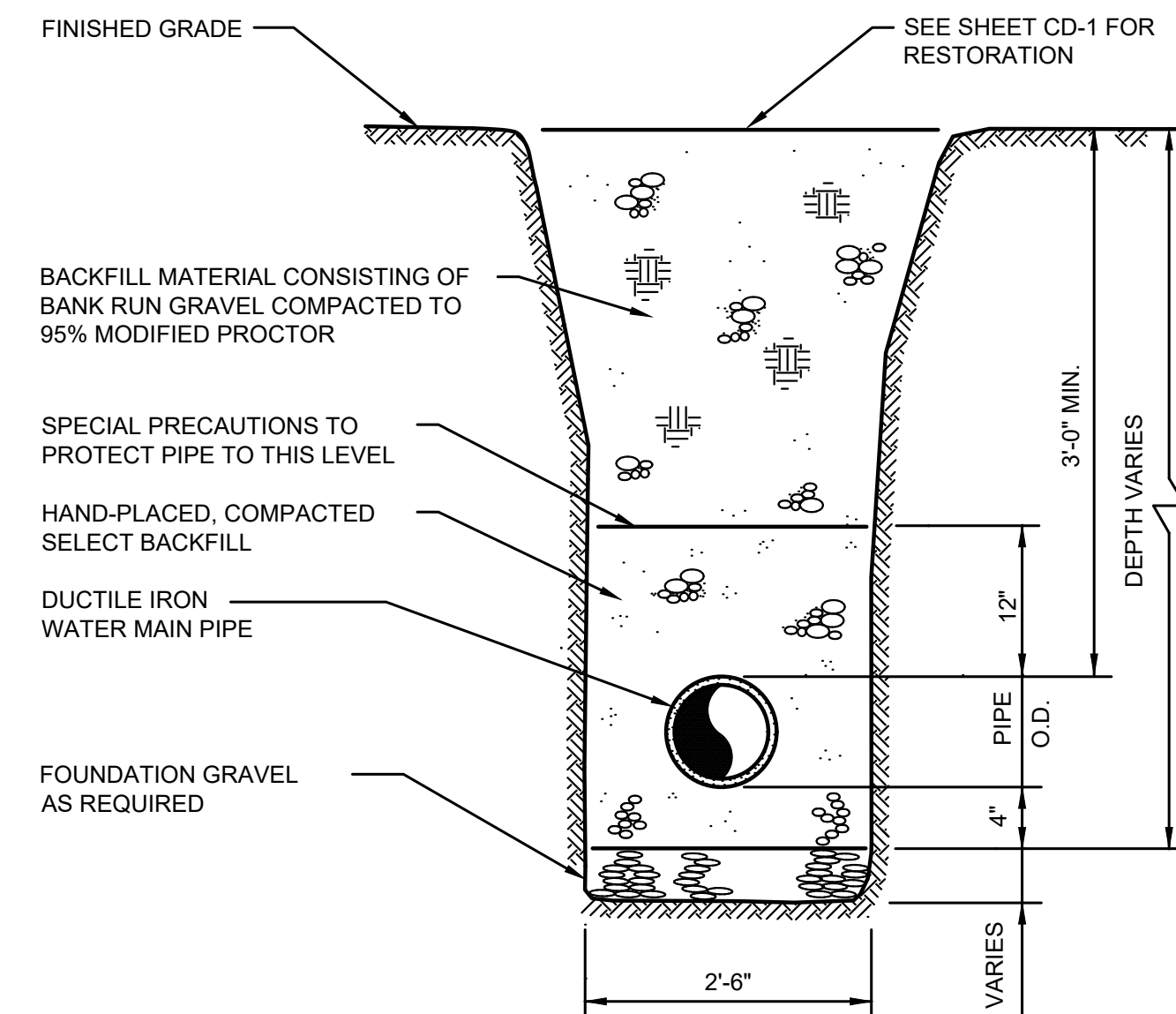
LEGEND

- ① 1" PI X 3/4" MIP
- ② 1" MIP x PEP JOINT ADAPTER EQUAL TO FORD C86-44
- ③ 1" MIP X PEP JOINT CORP STOP EQUAL TO FORD F1101
- ④ COPPER SETTER EQUAL TO VBH72-12W WITH FORD C86-33
- ⑤ ROMAC DI DOUBLE STRAP SERVICE STRAP
- ⑥ NOT USED
- ⑦ 3/4" (SINGLE SERVICE) HIGH MOLECULAR (200 PSI, SDR 7) "POLY" PIPE (LENGTH AS REQUIRED)
- ⑧ 3/4" BRASS NIPPLE (LENGTH AS REQUIRED)
- ⑨ 3/4" STREET ELBOW
- ⑩ 14 GAUGE WIRE FROM MAINLINE TAP TO METER BOX AND EXPOSE 6" MINIMUM IN BOX (RUN INSIDE 2" PVC GUARD CONDUIT WHERE APPLICABLE)
- ⑪ METER BOX - FOGTITE NO.1 WITH H2O LOADING (SET FLUSHED WITH FINISHED GRADE)
- ⑫ INSTALL SERVICE LINE IN 2" PVC GUARD PIPE (SCH-80) WHEN CROSSING ROADWAY (3' MINIMUM BEYOND AND BENEATH PAVEMENT SECTION)
- ⑬ PROVIDE APPROVED WATERTIGHT PLUG UNTIL CONNECTION TO PRIVATE SYSTEM IS MADE.
- ⑭ CITY WILL PROVIDE AND INSTALL NEW WATER METERS. CITY WILL REMOVE OLD WATER METERS.

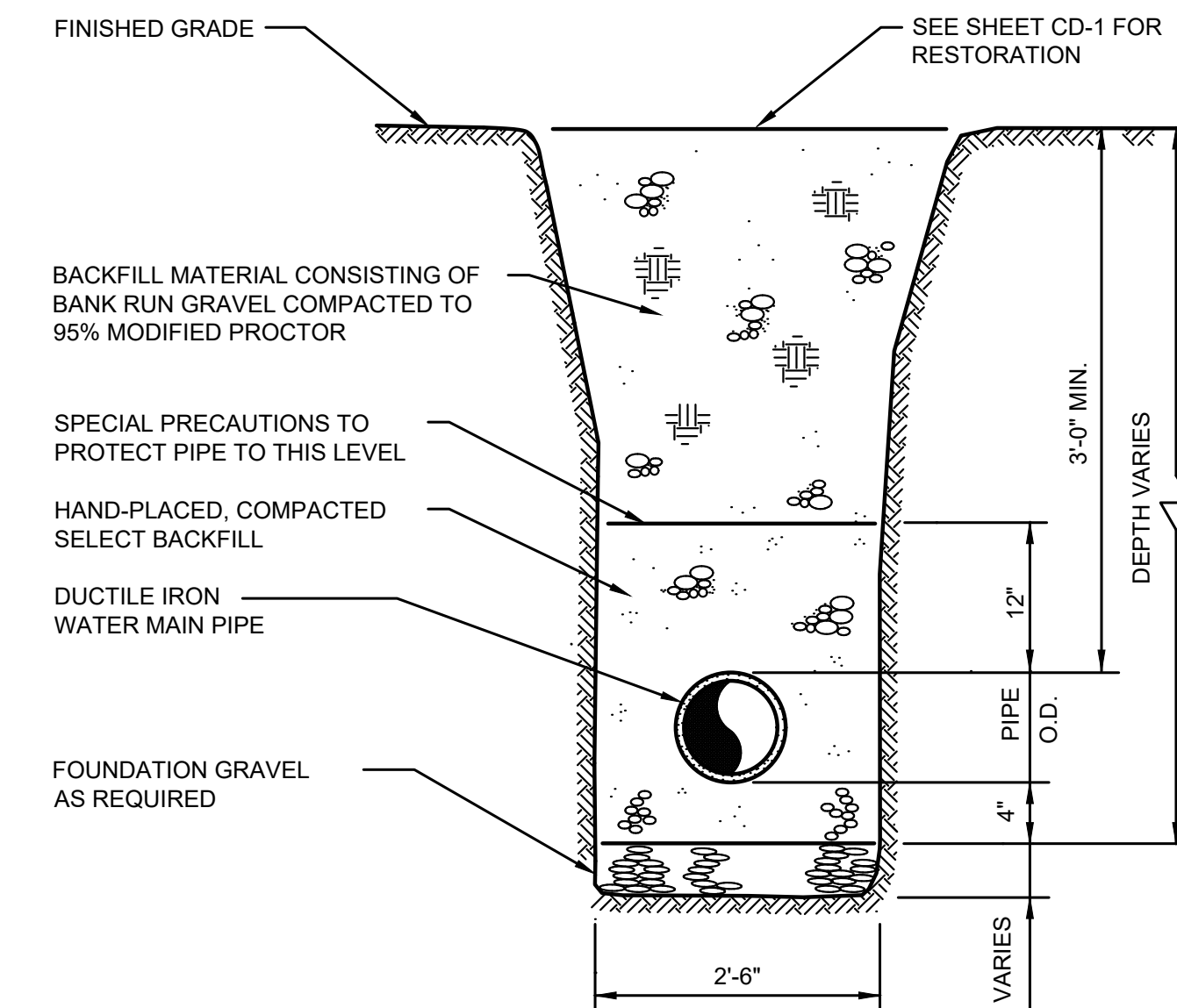


- NOTE:**
- 1. NO DEFLECTION SHALL BE ALLOWED AT EITHER COUPLING
 - 2. CUT-IN CONNECTIONS ON STEEL PIPE TO USE D.I. X O.D. STEEL TRANSITION COUPLINGS ROMAC OR EQUAL.
 - 3. IN-LINE VALVE(S) IN EXISTING SYSTEM MAY BE REQUIRED AT THE SOLE DISCRETION OF THE CITY AT ALL NEW INTERTIE LOCATIONS. (NOTE: VALVE(S) ARE NOT SHOWN ABOVE FOR CLARITY)

3 CUT IN CONNECTION
TYP NOT TO SCALE



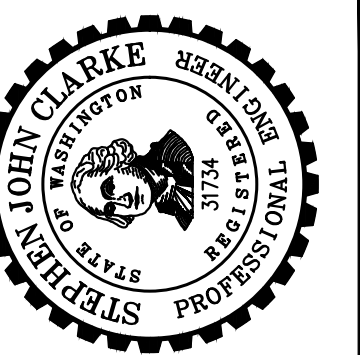
4 WATER MAIN IN THE CITY TYPICAL TRENCH SECTION
TYP NOT TO SCALE

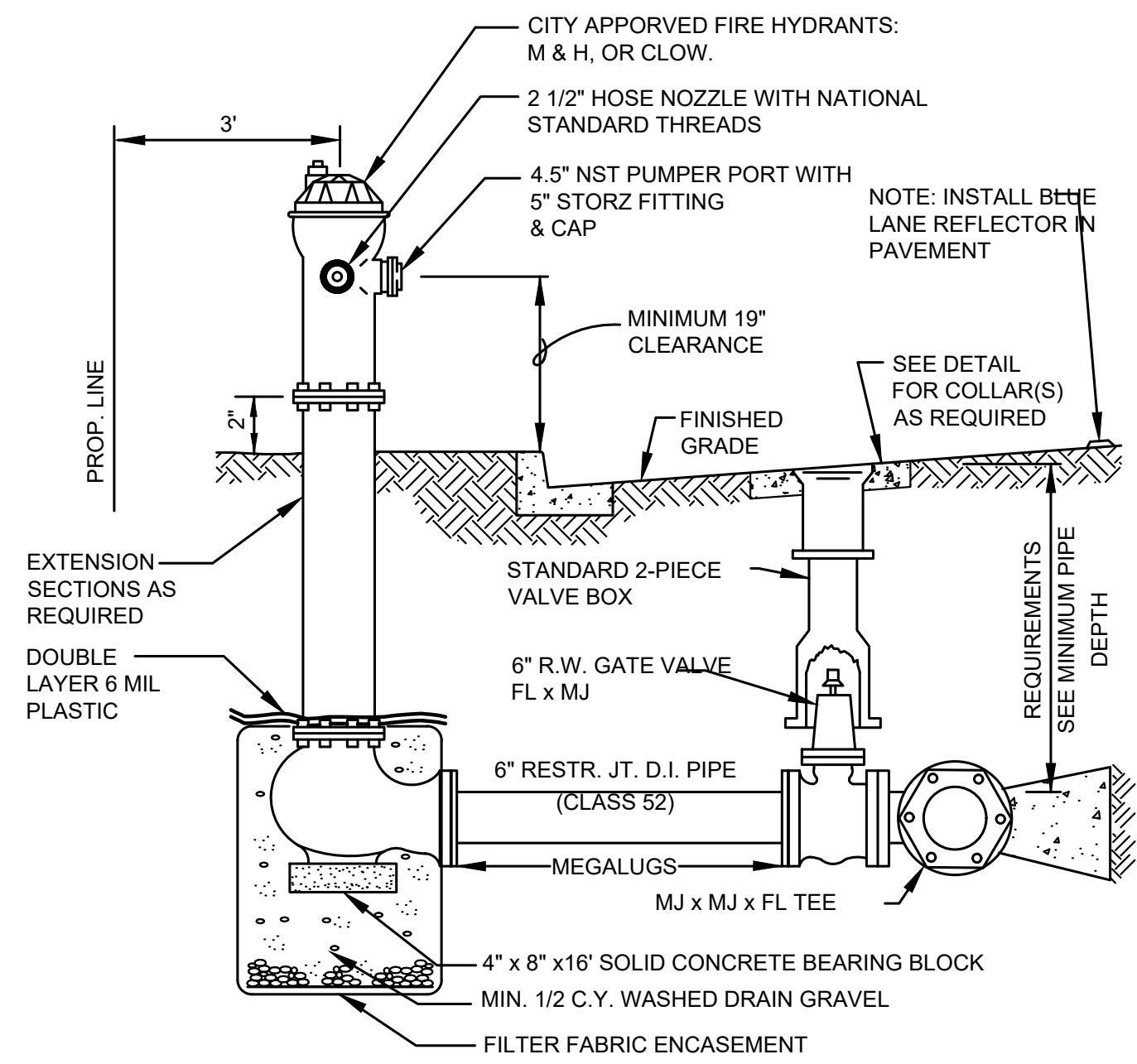


5 WATER MAIN IN THE COUNTY TYPICAL TRENCH SECTION
TYP NOT TO SCALE

DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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60% PLANSET	DATE	APPD
	REVISION	
	No.	

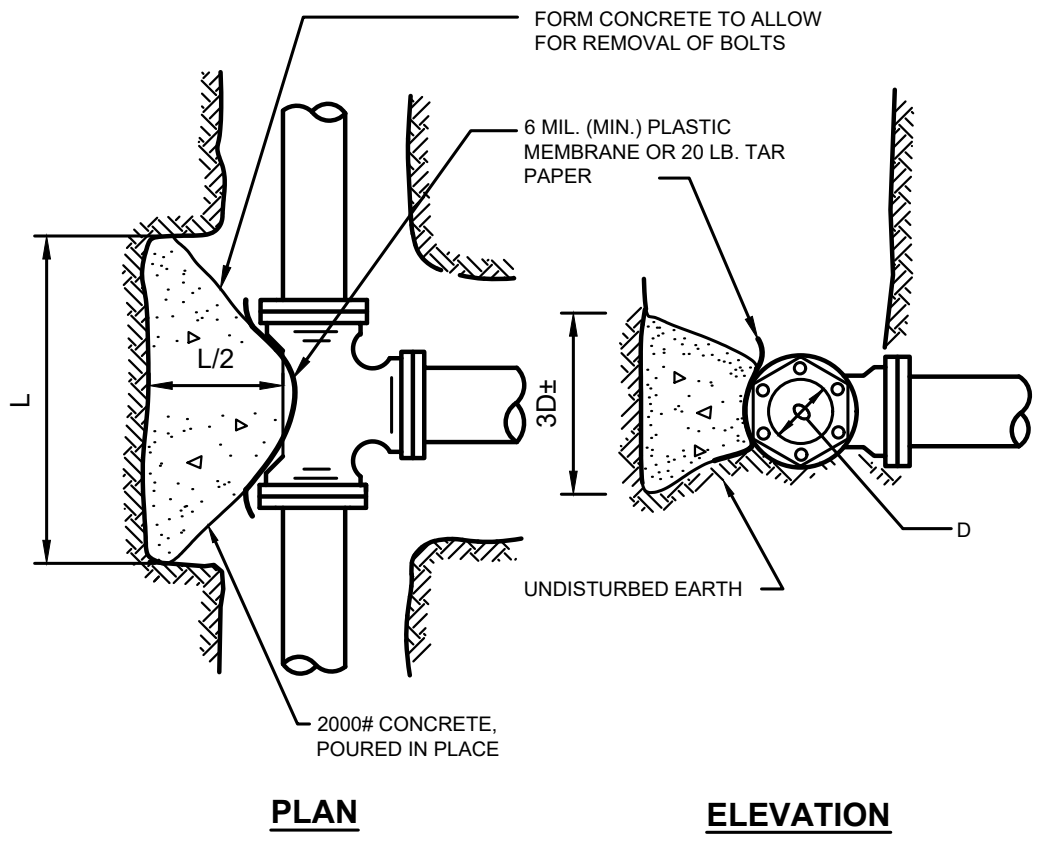




- NOTES:**
- HYDRANT RUN PIPE SHALL BE MINIMUM 6" DIAMETER.
 - ALL JOINTS ON HYDRANT RUN SHALL BE RESTRAINED PER CITY STANDARDS.
 - INSTALL GUARD POSTS AS REQUIRED BY THE CITY.
 - PROVIDE MIN. 3 FT. CLEAR AND LEVEL AREA AROUND HYDRANT.
- NOTES (CONTINUED):**
- ORIENT PUMPER PORT AS APPROVED BY CITY.
 - PAINT FIRE HYDRANT: RUSTOLEUM SAFETY YELLOW BASE No. 288-14, COLOR CODE AX-6732, T-4432, OR PER LOCAL FIRE MARSHALL, CONTRACTOR TO VERIFY

1 FIRE HYDRANT
TYP NOT TO SCALE

MINIMUM BEARING AREA TABLE						
FITTING	D	TEE	90°	45°	22 1/2°	11 1/4°
6"		4 SQ.FT.	6 SQ.FT.	3 SQ.FT.	2 SQ.FT.	2 SQ.FT.
8"		7 SQ.FT.	10 SQ.FT.	6 SQ.FT.	3 SQ.FT.	2 SQ.FT.
10"		10 SQ.FT.	15 SQ.FT.	9 SQ.FT.	5 SQ.FT.	3 SQ.FT.
12"		14 SQ.FT.	22 SQ.FT.	12 SQ.FT.	6 SQ.FT.	4 SQ.FT.
16"		25 SQ.FT.	38 SQ.FT.	21 SQ.FT.	11 SQ.FT.	7 SQ.FT.
18"		32 SQ.FT.	48 SQ.FT.	27 SQ.FT.	14 SQ.FT.	8 SQ.FT.

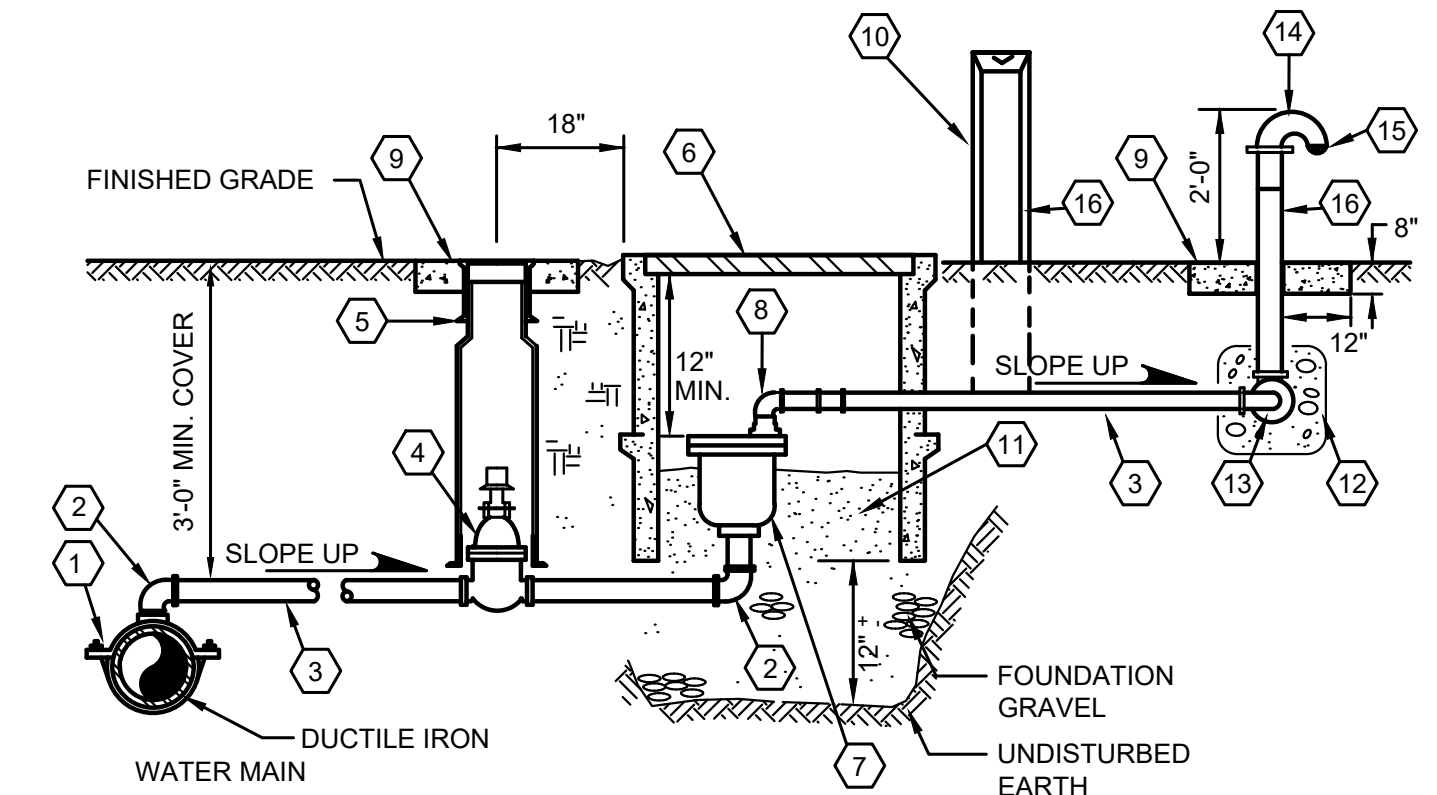


NOTES:

BEARING AREA TABLE BASED ON 250 PSI PRESSURE AND 2000 PSF SOIL BEARING. IF PRESSURE IS GREATER OR SOIL BEARING IS LESS, THE THRUST BLOCK SIZE SHALL BE INCREASED.

THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL THRUST BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

2 THRUST BLOCK
TYP NOT TO SCALE



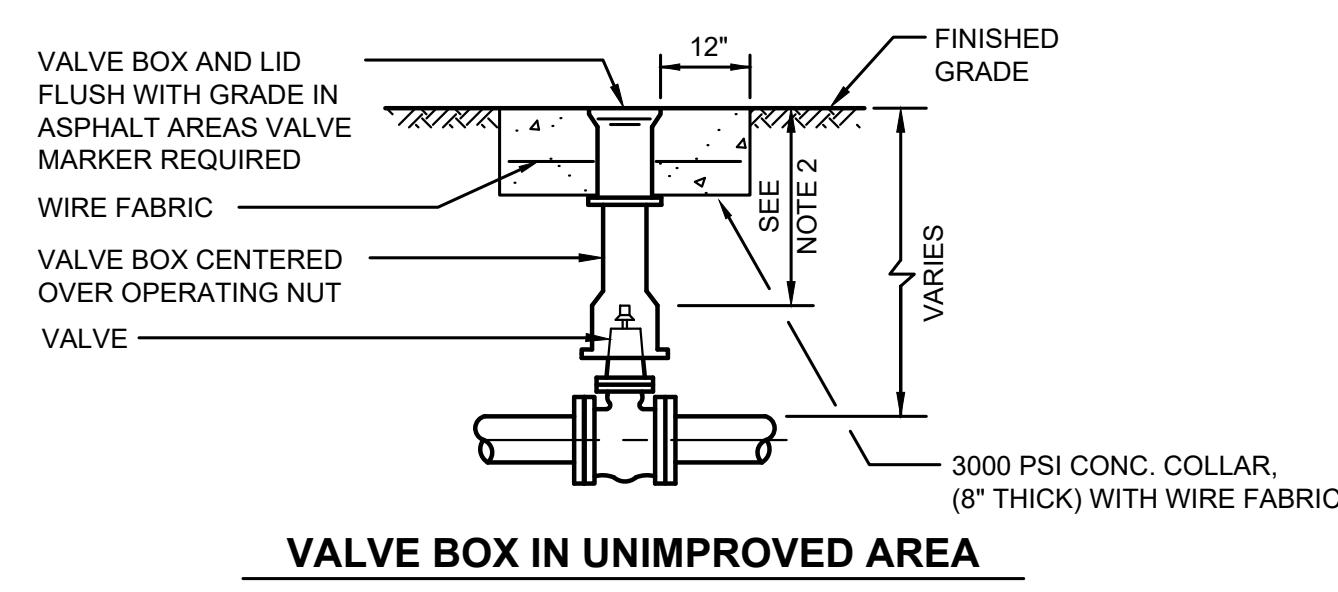
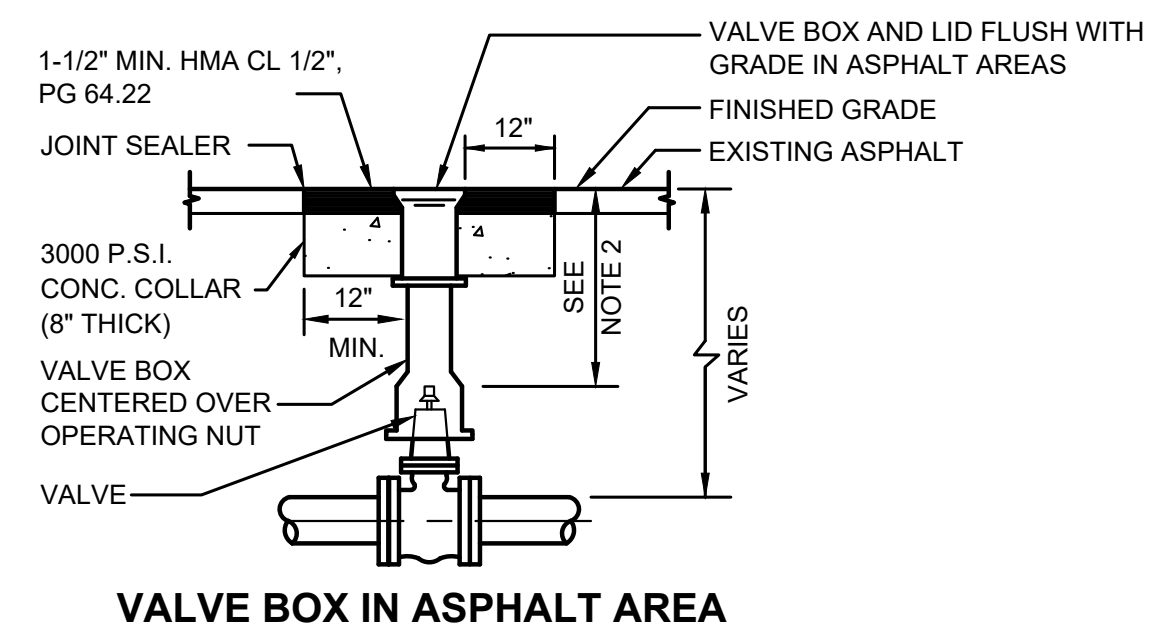
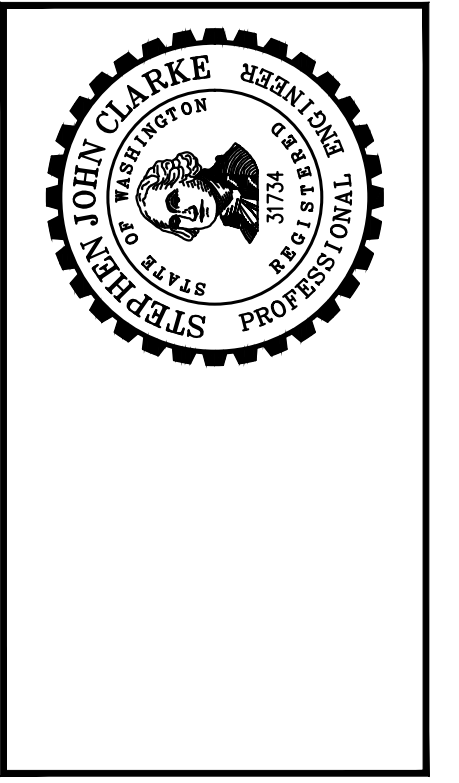
- DOUBLE STRAP SERVICE CLAMP W/ 2" CORP. STOP
- 2" SWING JOINT
- 2" GALVANIZED IRON PIPE
- 2" AWWA RESILIENT SEAT GATE VALVE W/ OPERATING NUT
- CAST IRON VALVE BOX
- CONCRETE METER BOX, 17"X28" FOGTITE NO. 2, W/ DIAMOND PLATE STEEL SOLID COVER
- AIR & VACUUM RELEASE VALVE, APCO OR CRISPIN MODELS ONLY
- 2"X90° ELBOW
- CONCRETE COLLAR
- 4"X4" CONC. MARKER POST W/ DISTANCE & DIRECTION TO VALVE STENCILED IN BLACK
- PEA GRAVEL
- MIN. 1/4 CY OF WASHED ROCK, WRAP WITH FILTER FABRIC
- 2, 2"X90° ELBOW (GALV.) WITH WEEP HOLE IN ONE
- 2" OPEN PATTERN RETURN BEND
- 2" BEEHIVE STRAINER
- PAINT PORTION ABOVE GROUND WITH TWO COATS OF BLUE PAINT

- NOTES:**
- TAP WATER MAIN AT HIGH POINT LOCATION, AS APPROVED BY ENGINEER.
 - ASSEMBLY SHALL BE INSTALLED IN NON-Traffic AREA.

3 2" AIR & VACUUM RELEASE ASSEMBLY
TYP NOT TO SCALE

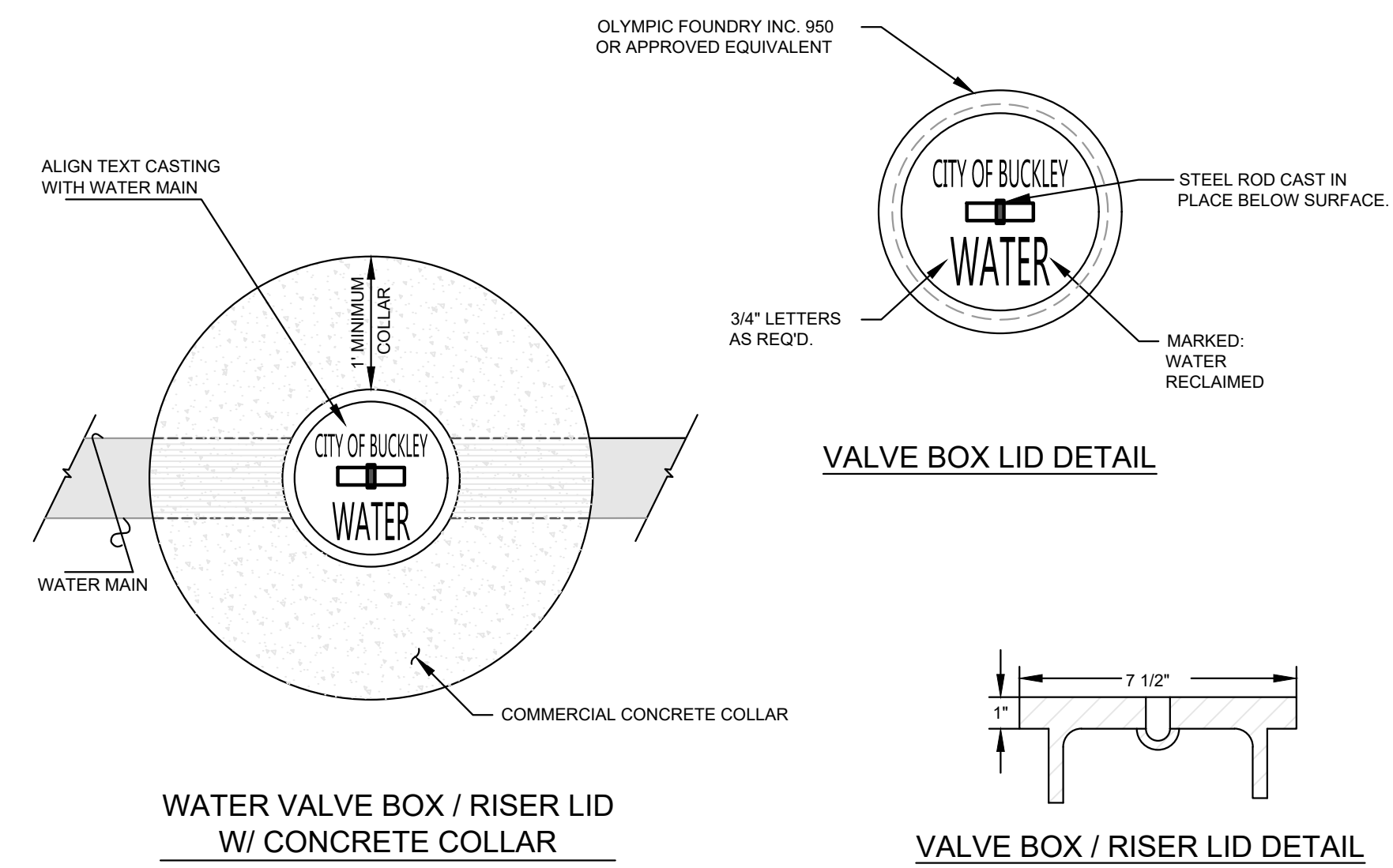
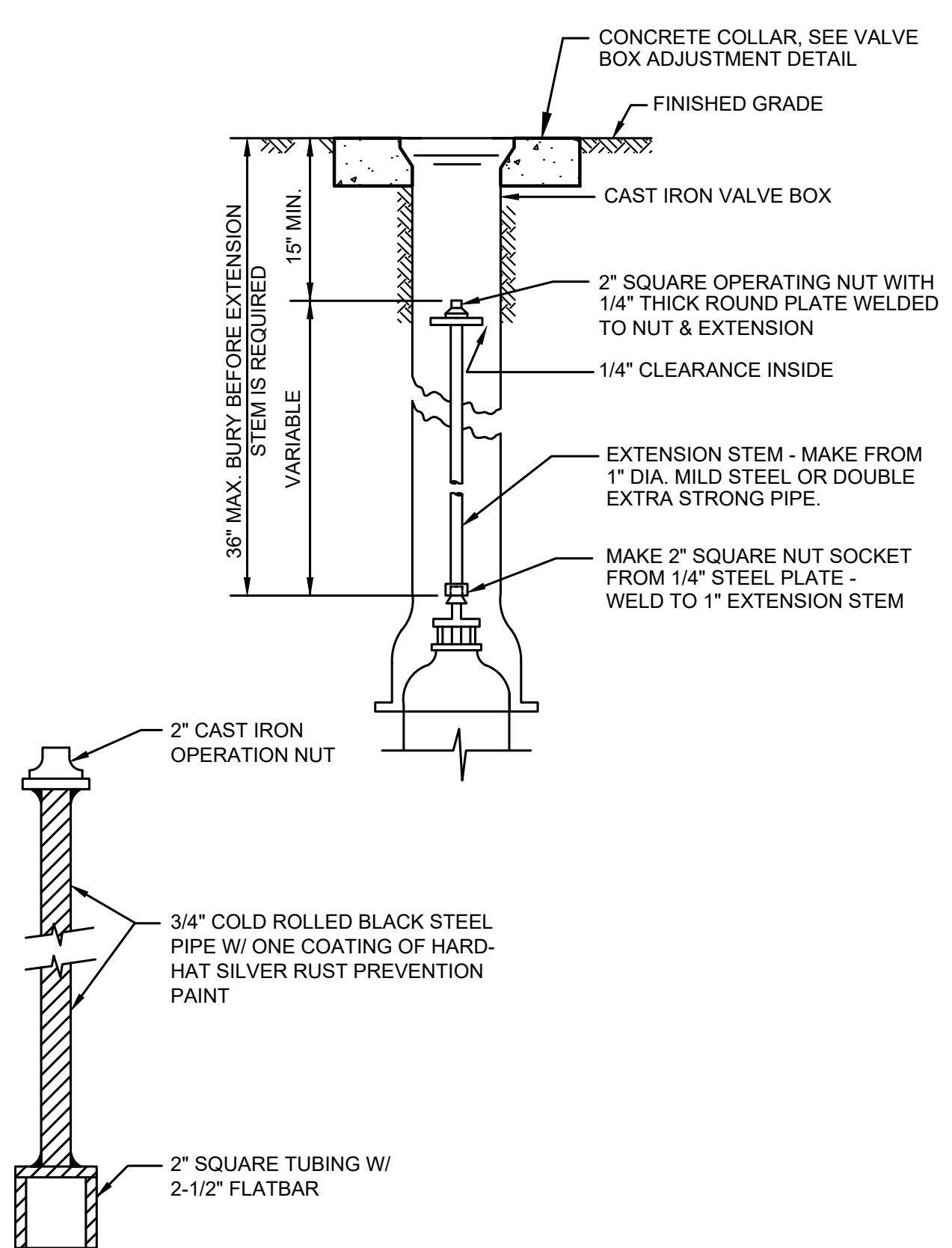
DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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60% PLANSET	DATE	APPD
	REVISION	
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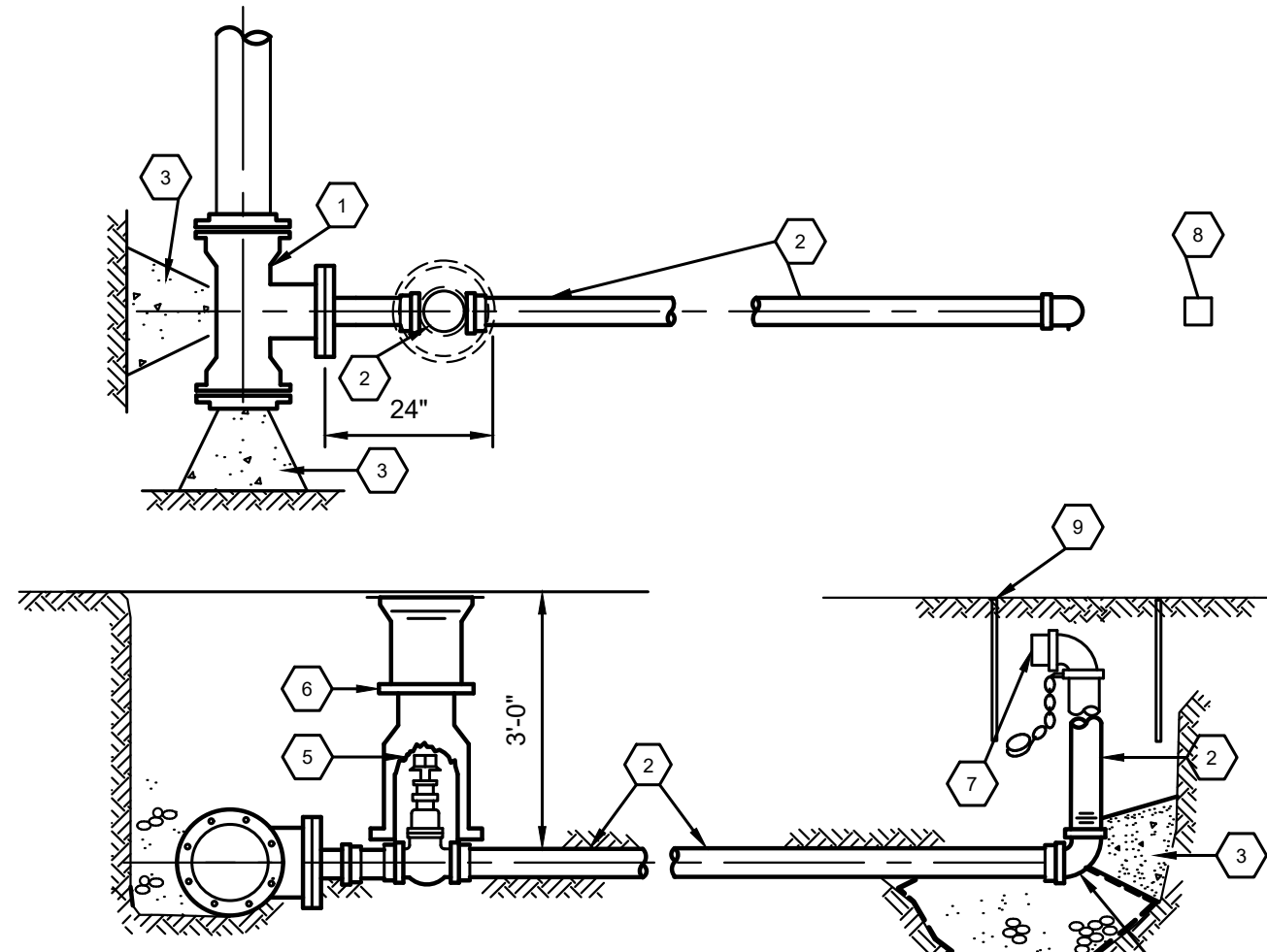


- NOTES:**
- EACH VALVE SHALL BE PROVIDED WITH AND ADJUSTABLE CAST IRON VALVE BOX OF 5 INCHES (5") INSIDE DIAMETER. VALVE BOXES SHALL HAVE A TOP SECTION WITH AN EIGHTEEN INCH (18") MINIMUM LENGTH.
 - 15" MINIMUM, 36" MAXIMUM FOR OPERATOR NUT. EXTENSION MAY BE REQUIRED.

4 VALVE BOX ADJUSTMENT
TYP NOT TO SCALE



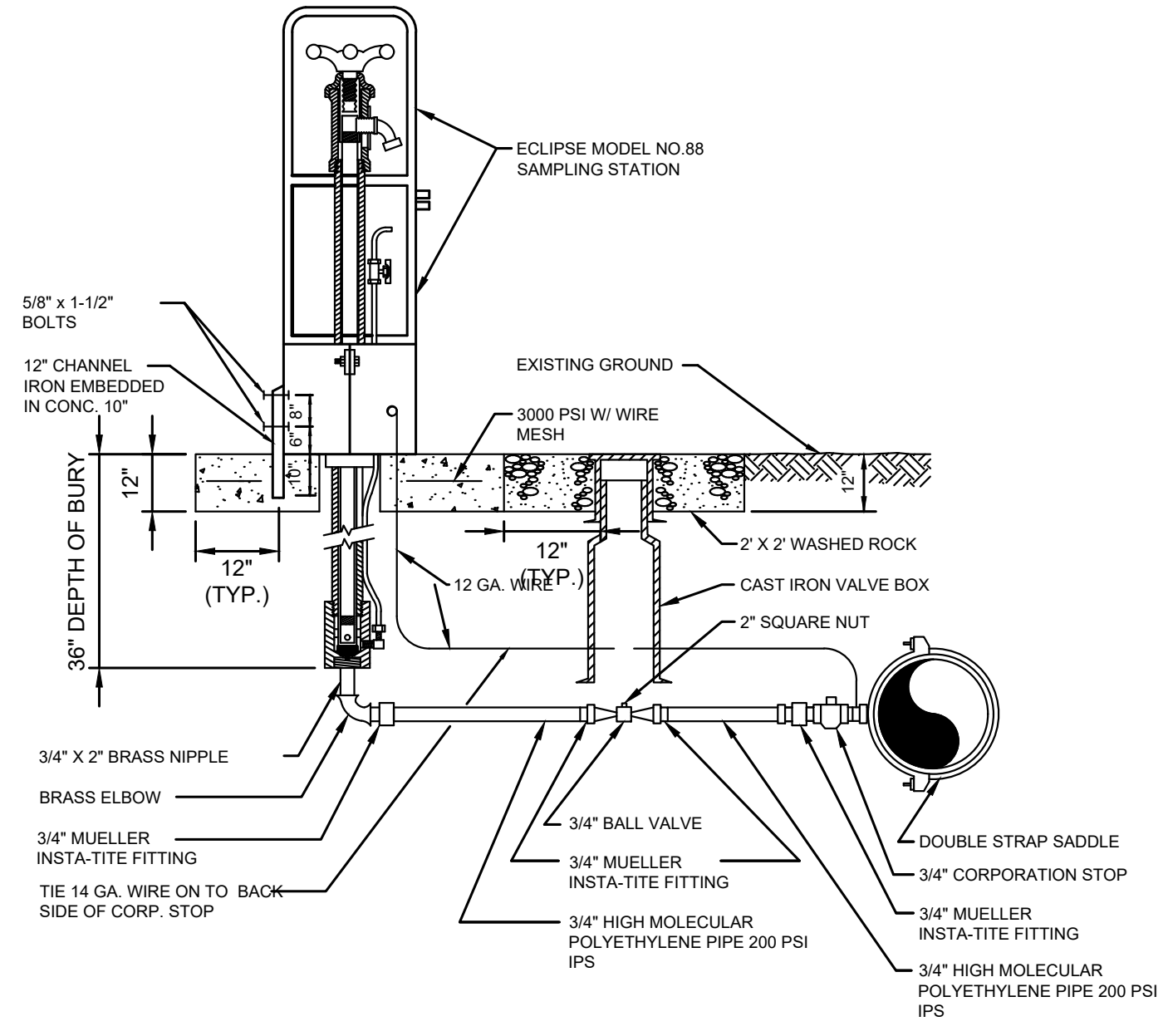
M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\PlanSet\General\CD_DET_1.dwg, 1/14/2022 4:29 PM, ARTEMIS ZAFARI



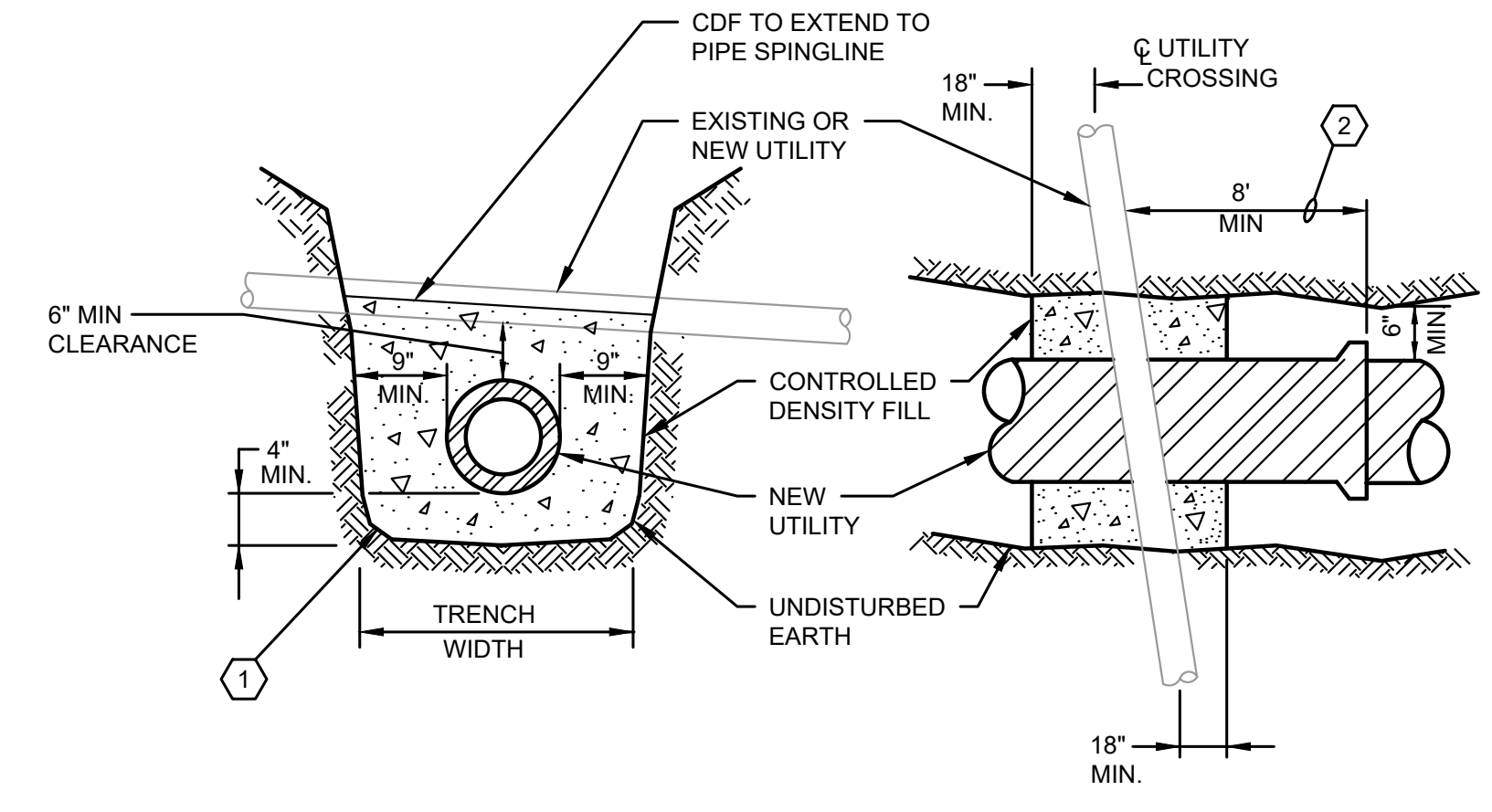
- 1 2" GALVANIZED NIPPLE.
- 2 2" GALVANIZED PIPE.
- 3 THRUST BLOCK
- 4 AWWA RESILIENT SEAT GATE VALVE THD X THD. WITH OPERATING NUT.
- 5 CAST IRON VALVE BOX.
- 6 1/4 CUBIC YARD WASHED GRAVEL POCKET.
- 7 2" x 2-1/2" HOSE THREADS BRASS INSERT WITH CAP AND CHAIN.
- 8 VALVE MARKER POST.
- 9 17 X 28 CONC. METER BOX WITH 3/8" STRUC. DIAMOND PLATE COVER FOG-TITE METER SEAL CO. NO.2.

NOTES:
 1. TURN NOZZLE TOWARDS ROADSIDE DITCH.
 2. TEMPORARY BLOWOFFS INSTALLED FOR FLUSHING WATERMAIN SHALL BE SIZED TO PROVIDE 2.5fps VELOCITY IN MAIN LINE.

PERMANENT END-LINE BLOW OFF ASSEMBLY
 1 TYP NTS



2 WATER SAMPLING STATION
 2 TYP NTS



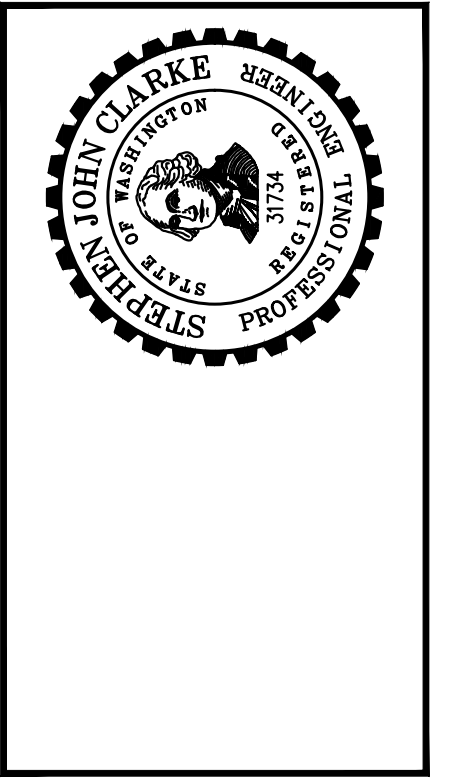
NOTES:
 1 CONTRACTOR SHALL PROVIDE CDF PIPE ENCASEMENT AT ALL UTILITY CROSSINGS IN THE EVENT THAT A 12" SEPARATION CANNOT BE PROVIDED (OR IF THE CROSSING UTILITIES ARE WATER AND SEWER AND THE SEWER DOES NOT CROSS AT LEAST 18" BELOW THE WATER). THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EX. UTILITIES, AND ANTICIPATE FURNISHING AND INSTALLING CDF ENCASEMENTS WHERE REQUIRED.
 2 CONTRACTOR SHALL NOT CONSTRUCT ANY NEW PIPE JOINT WITHIN 8 FEET OF THE EXISTING CENTERLINE OF THE UTILITY CROSSING.

3 CDF PIPE ENCASEMENT DETAIL
 3 TYP NOT TO SCALE

Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 2102 CARBONADE DRIVE SW, BLDG. 1
 OLYMPIA, WA 98512 • (360) 292-7481

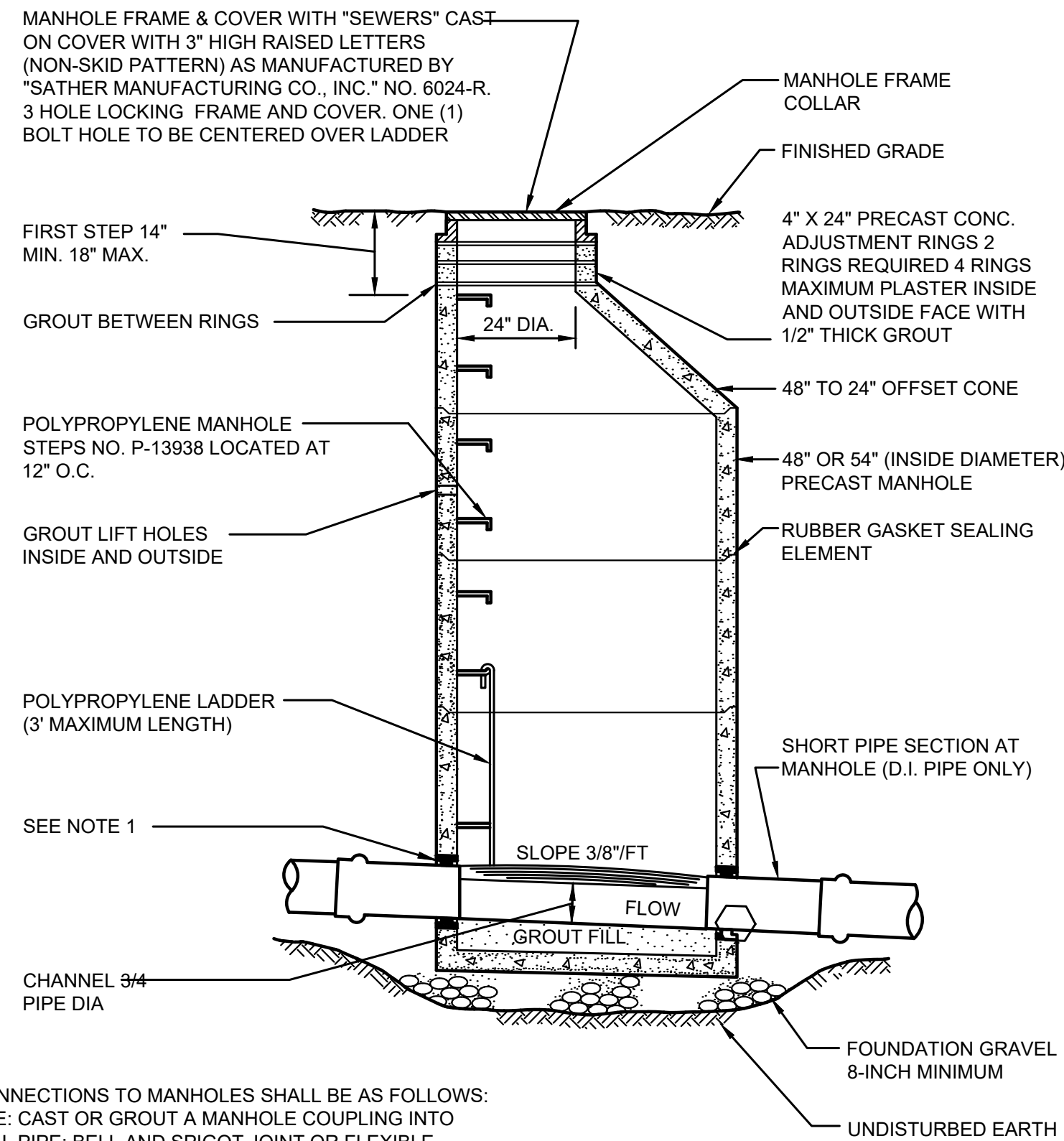
DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

60% PLANSET	DATE	APPD
	REVISION	



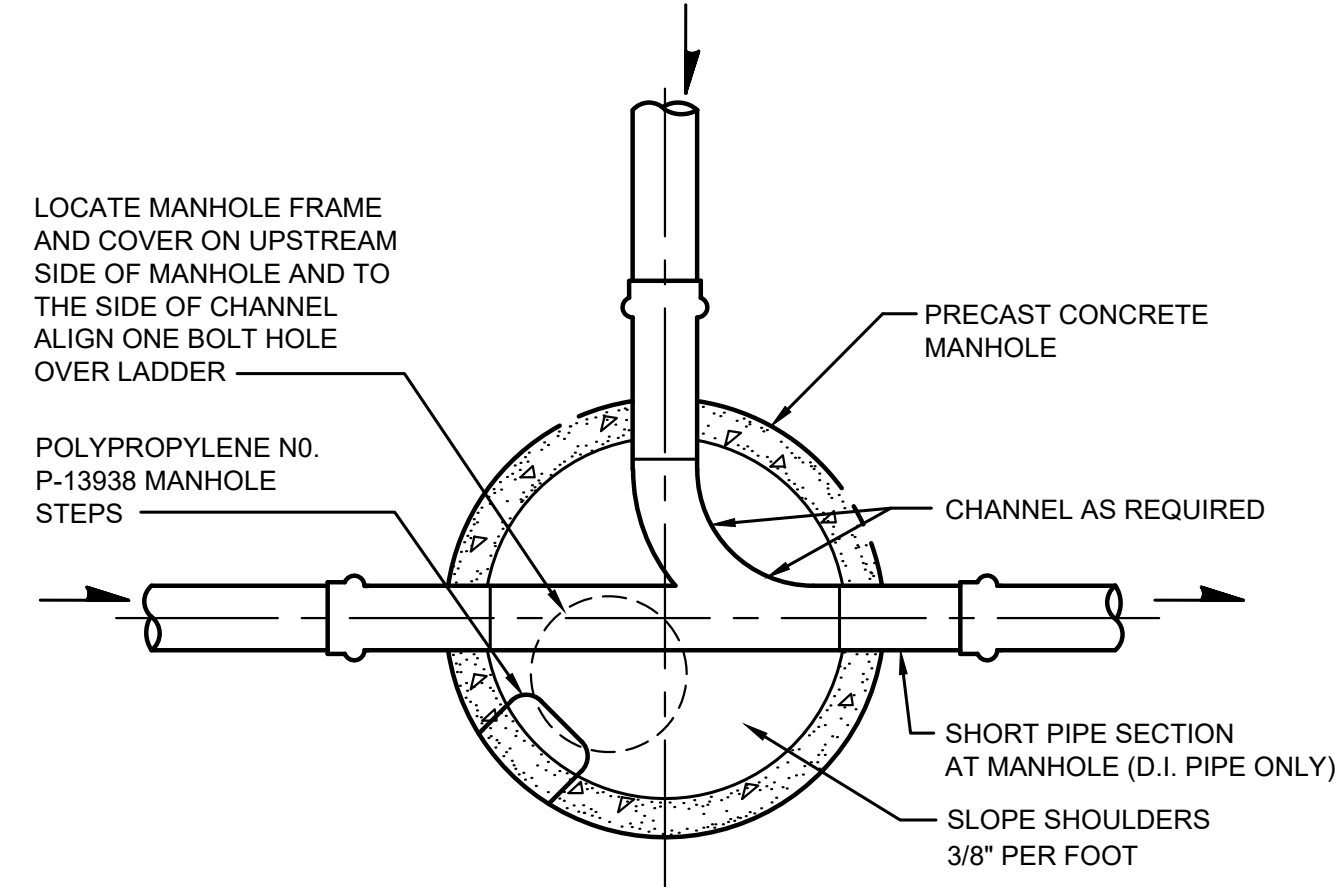
CITY OF TOLEDO
 LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
 WATER DETAILS

SHEET:	CD-4
OF:	11
JOB NO.:	20227.00
DWG:CD_DET_1	



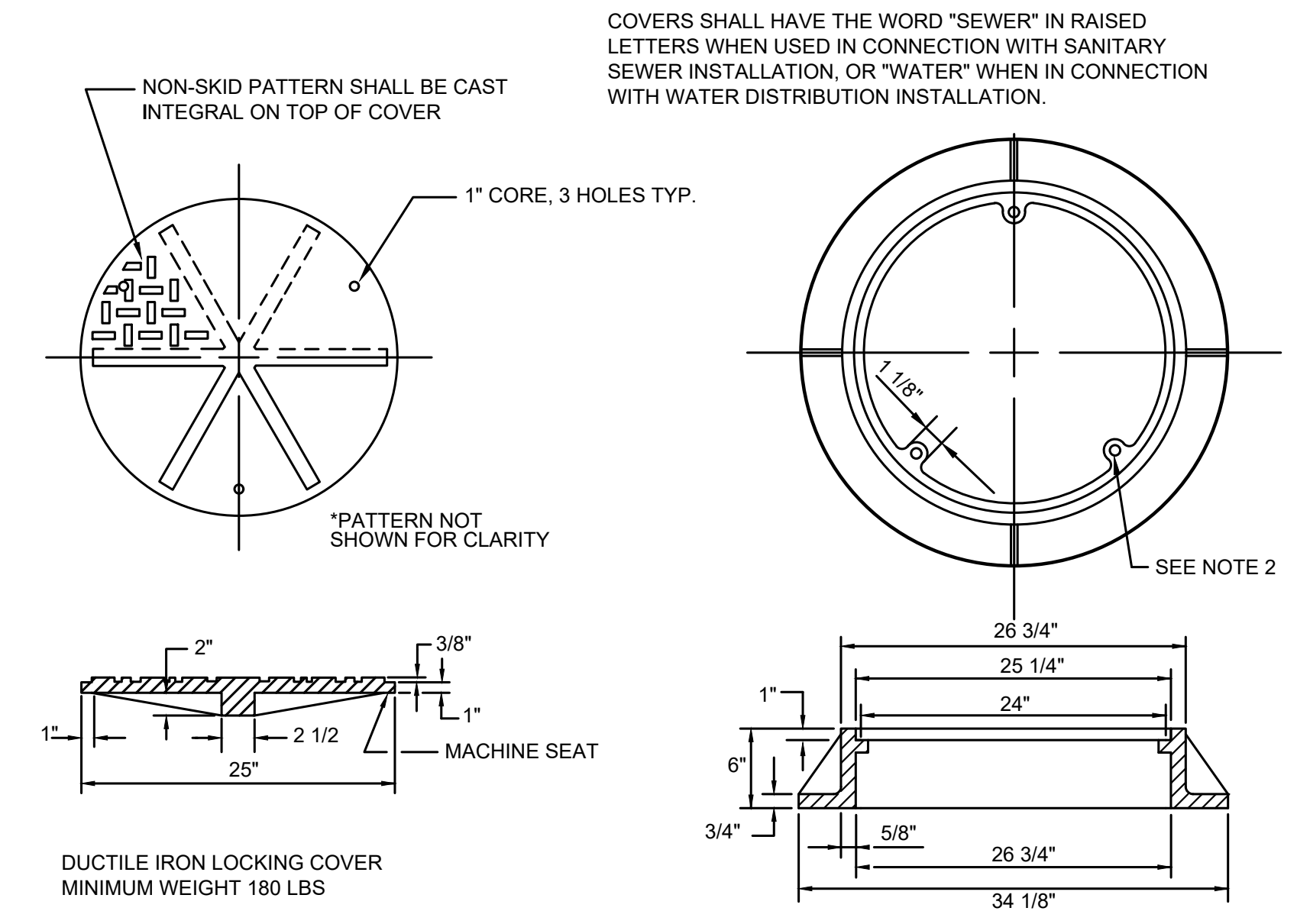
- NOTES:**
- PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS: PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL. D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL. PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL, KOR-N-SEAL BOOT OR EQUAL.
 - DROP OF GRADE THRU MANHOLE SHALL BE 0.10', UNLESS OTHERWISE REQUIRED/APPROVED BY CITY ENGINEER.
 - LARGER MANHOLES WILL BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER BASED ON PIPE SIZE, NUMBER AND ORIENTATION OF PIPE(S).

1 TYP NOT TO SCALE
TYPICAL PRECAST MANHOLE



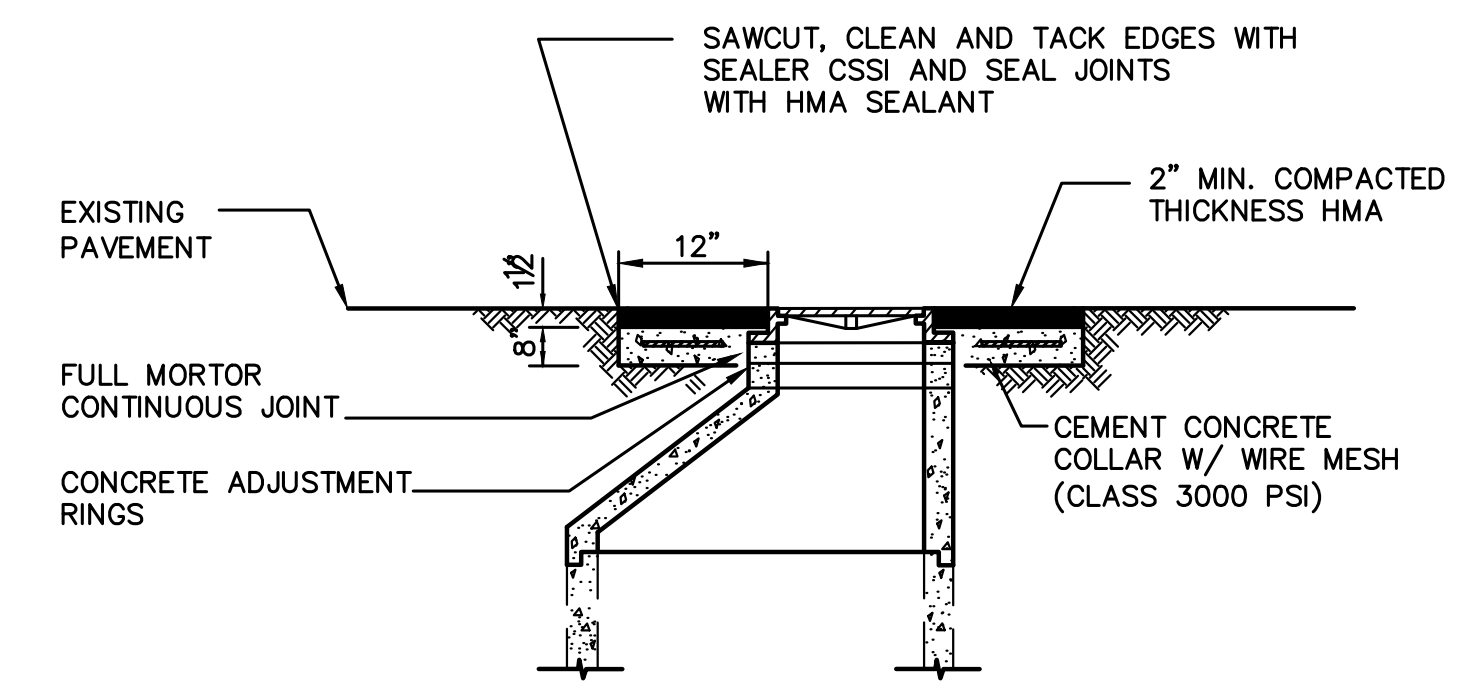
NOTE:
PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING. EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL, KOR-N-SEAL BOOT OR EQUAL.
ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE WITH A CONCRETE CORING MACHINE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

2 TYP NOT TO SCALE
TYPICAL MANHOLE PLAN

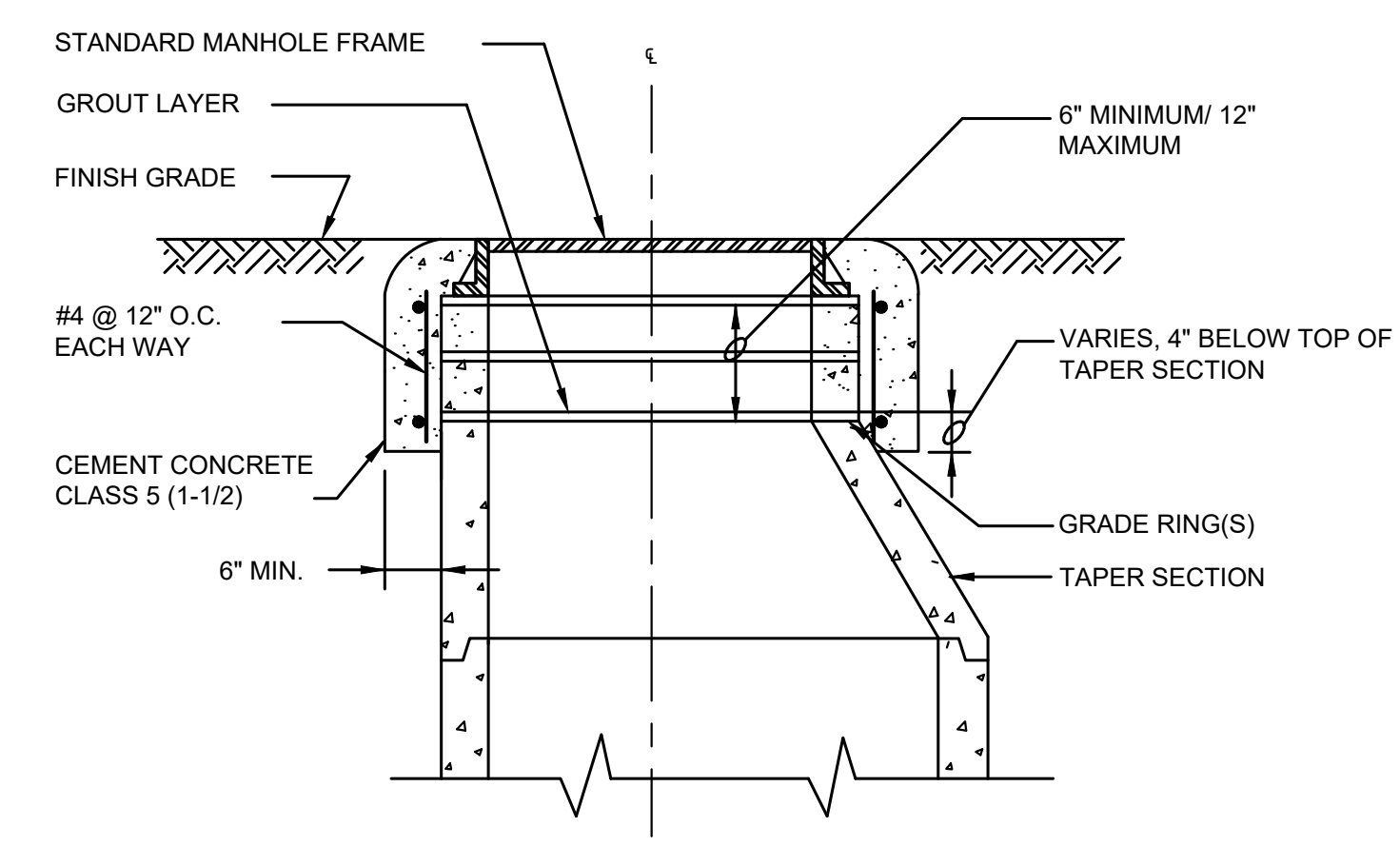


- NOTES:**
- MATERIALS ARE DUCTILE IRON ASTM A-40 CLASS 30
 - DRILL AND TAP THREE 5/8" HOLES THRU FRAME AT 120° AND 11 1/16" RADIUS
 - SATHER MANUFACTURING CO 6024-R OR OTHERWISE APPROVED R EQUAL
 - WATERTIGHT MANHOLE FRAME AND COVERS MAY BE REQUIRED BASED ON LOCAL CONDITIONS.
 - ALL MANHOLES LOCATED OUTSIDE PAVEMENT AREAS SHALL BE PROVIDED WITH LOCKING MANHOLE FRAME AND COVER.

3 TYP NOT TO SCALE
MANHOLE FRAME AND COVER

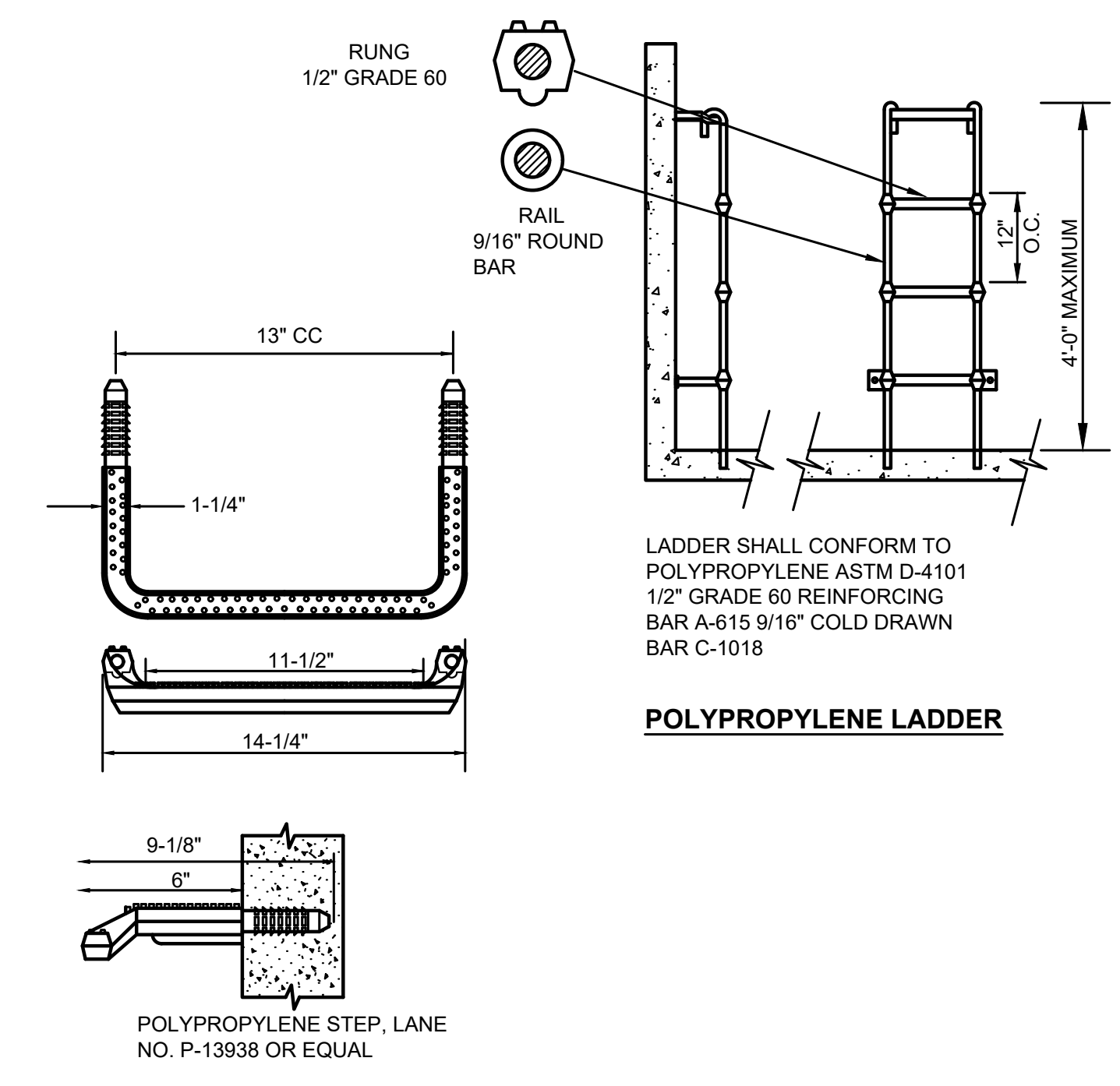


4 TYP NOT TO SCALE
CATCH BASIN FRAME OR MANHOLE ADJUSTMENT DETAIL



NOTE:
CONSTRUCT CONCENTRIC CONCRETE COLLARS AROUND ALL MANHOLE FRAMES LOCATED OUTSIDE OF PAVEMENT AREAS

5 TYP NOT TO SCALE
MANHOLE FRAME COLLAR

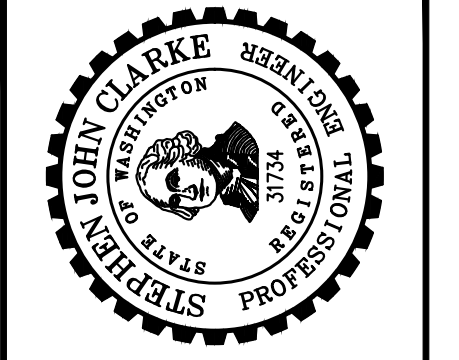


POLYPROPYLENE MANHOLE STEPS

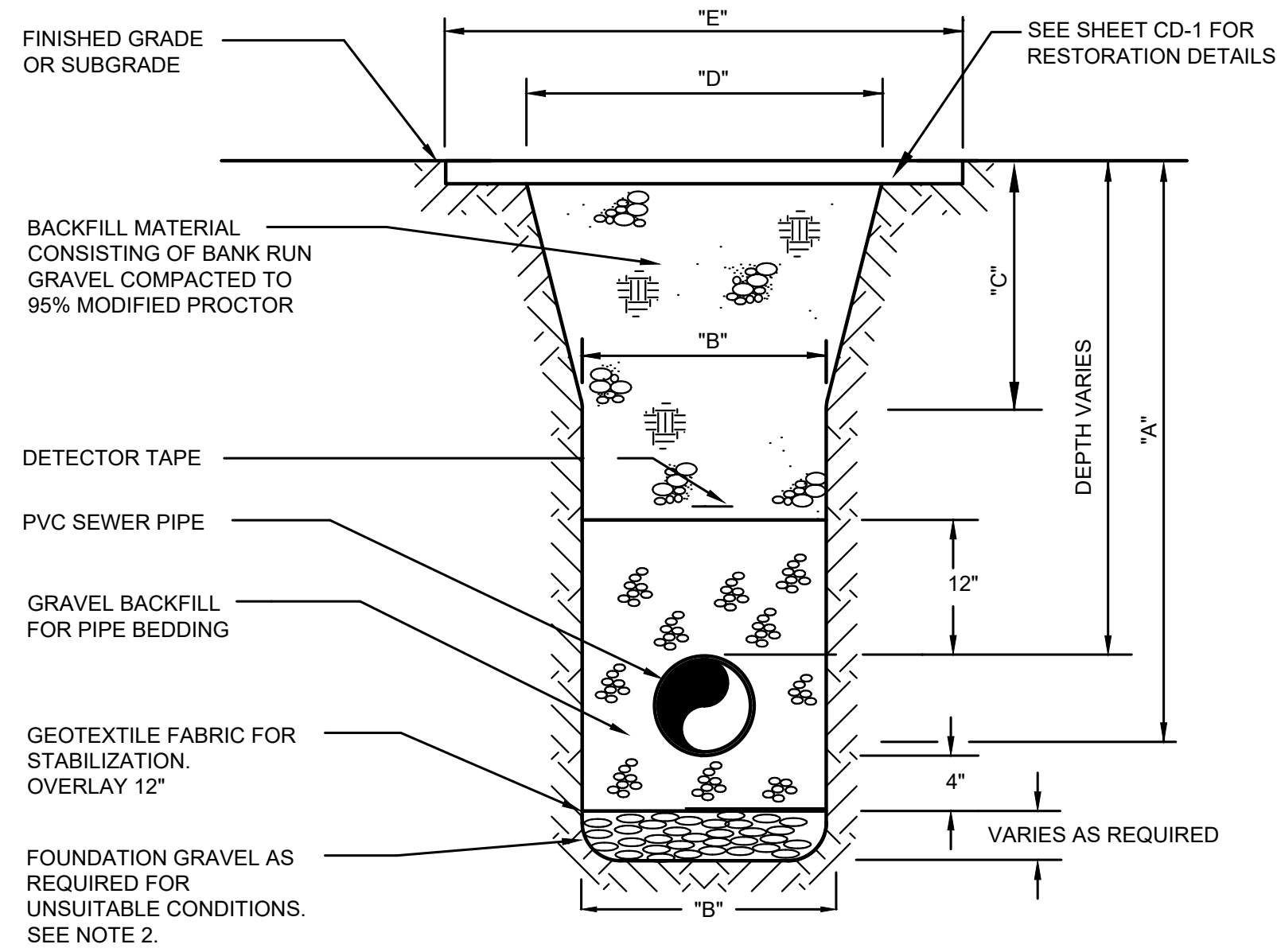
6 TYP NOT TO SCALE
POLYPROPYLENE LADDER AND MANHOLE STEPS

DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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NO.	REVISION	DATE	APPD
60% PLANSET			



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NOTES:

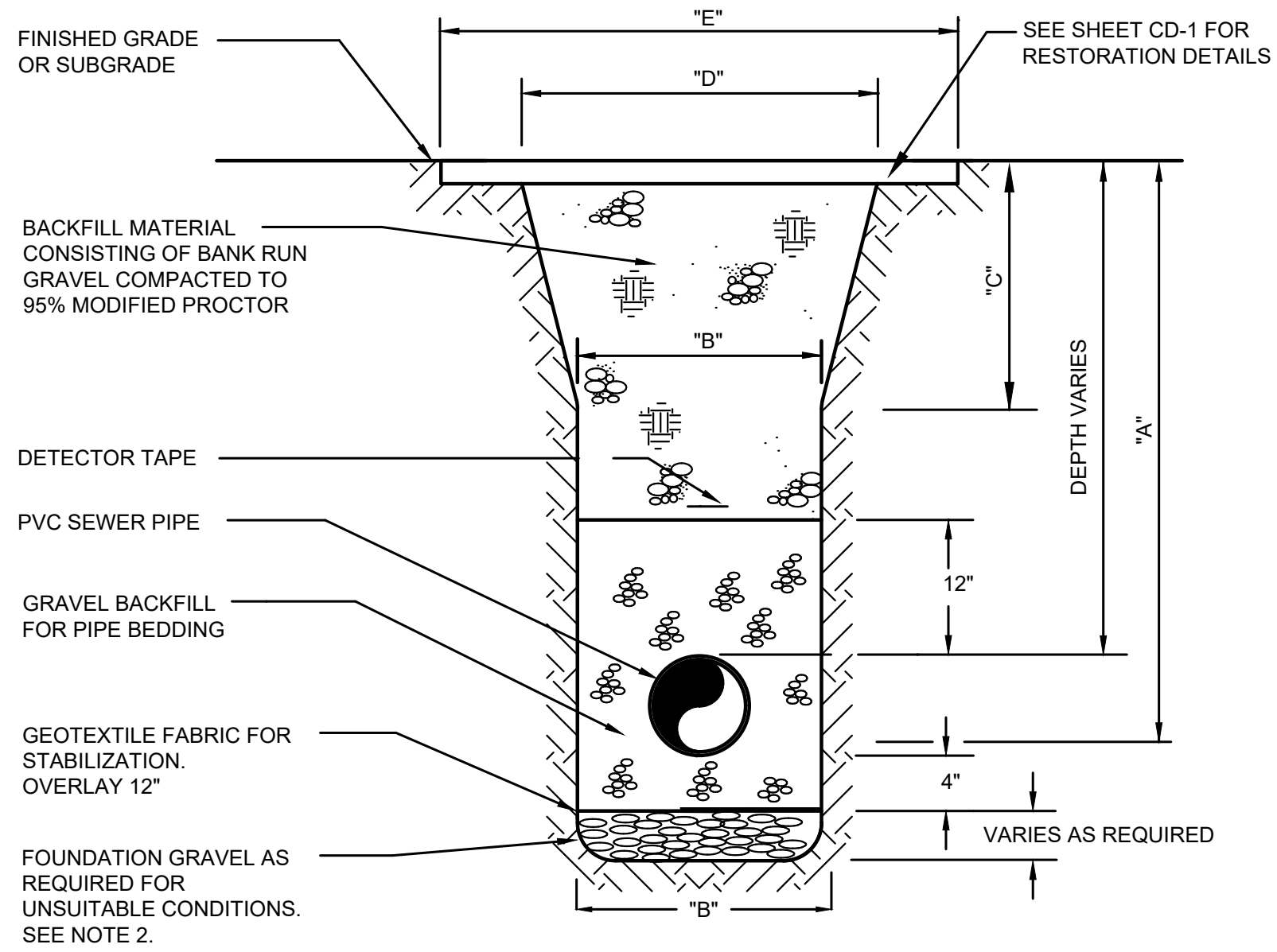
1. THE TRENCH SECTIONS SHOWN ON THE PLANS ARE FOR THE PAYMENT LIMITS FOR BANK RUN GRAVEL FOR TRENCH BACKFILL. PAYMENT FOR ALL BANK RUN GRAVEL FOR TRENCH BACKFILL SHALL BE COMPUTED FROM THE MEASUREMENT OF THE CONSTRUCTED TRENCH SECTION, TO THE MAXIMUM PAYMENT LIMITS AS INDICATED IN THE SCHEDULE ON THIS SHEET.
2. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED BELOW THE PIPE BEDDING SUBGRADE, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE MATERIAL AND REPLACE WITH FOUNDATION GRAVEL AND GEOTEXTILE FOR STABILIZATION.

8" & 12" DIAMETER PIPE

A	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'
B	4'-0"										
C	1.5'	1.5'	1.75'	2.25'	2.75'	3.25'	3.75'	4.25'	4.75'	5.25'	5.75'
D	4.5'	5.5'	6.5'	7.5'	8.5'	9.5'	10.5'	11.5'	12.5'	13.5'	14.5'
E	6.5'	7.5'	8.5'	9.5'	10.5'	11.5'	12.5'	13.5'	14.5'	15.5'	16.5'

TRENCH PAYMENT LIMIT SCHEDULE

1
TYP NOT TO SCALE
SEWER IN CITY
TYPICAL TRENCH SECTION



NOTES:

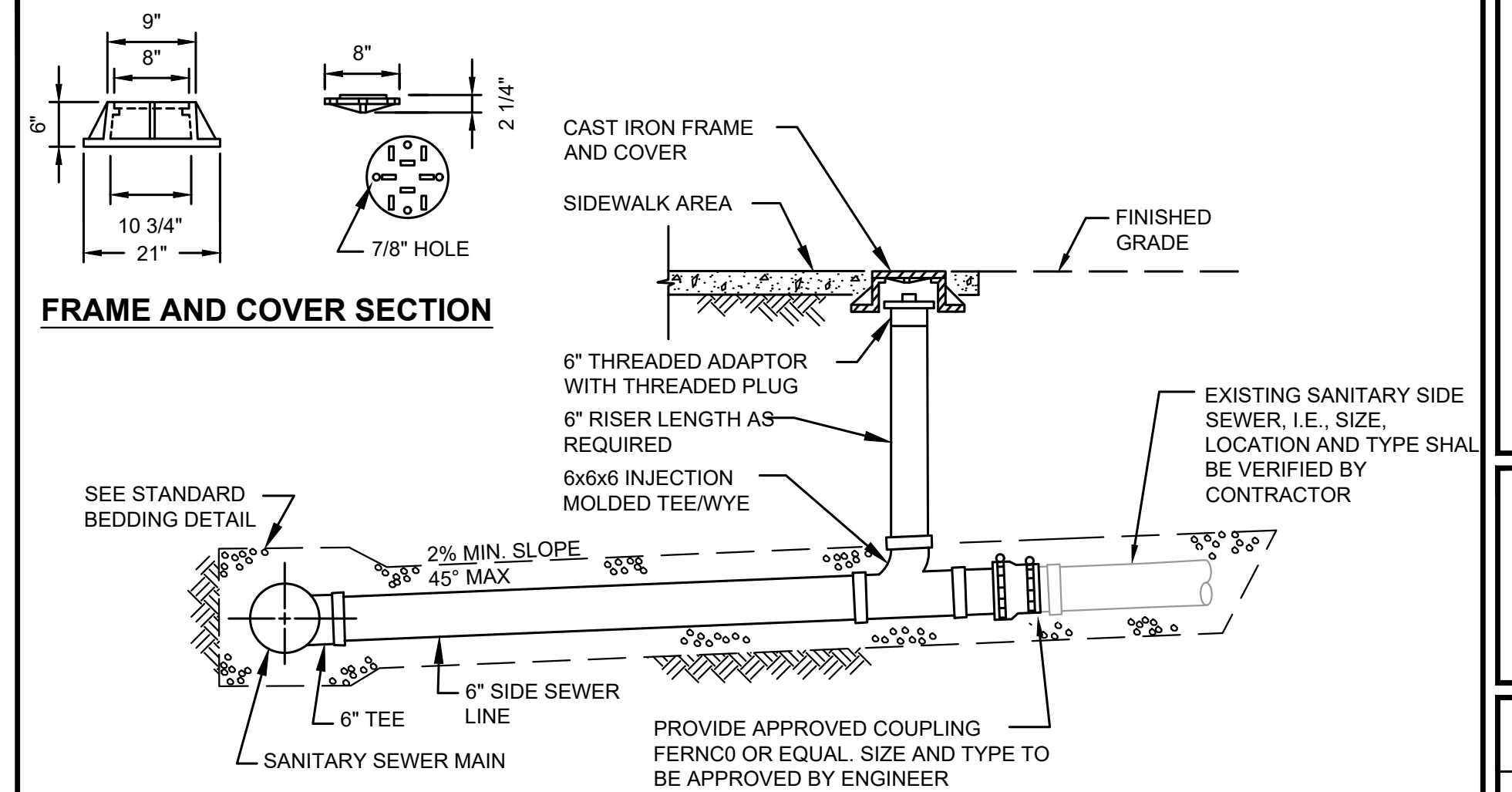
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8" & 12" DIAMETER PIPE

A	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'
B	4'-0"										
C	1.5'	1.5'	1.75'	2.25'	2.75'	3.25'	3.75'	4.25'	4.75'	5.25'	5.75'
D	4.5'	5.5'	6.5'	7.5'	8.5'	9.5'	10.5'	11.5'	12.5'	13.5'	14.5'
E	6.5'	7.5'	8.5'	9.5'	10.5'	11.5'	12.5'	13.5'	14.5'	15.5'	16.5'

TRENCH PAYMENT LIMIT SCHEDULE

2
TYP NOT TO SCALE
SEWER IN COUNTY
TYPICAL TRENCH SECTION

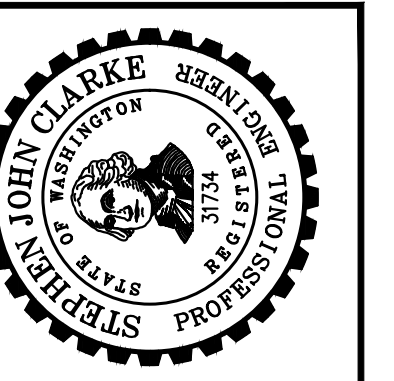


3
- NOT TO SCALE
SIDE SEWER CONNECTION DETAIL

Gray & Osborne, Inc.
CONSULTING ENGINEERS
2102 CARRIAGE DRIVE SW, BLDG. 1
OLYMPIA, WA 98512 • (360) 292-7481

DATE:	JAN 2022	DRAWN:	JPW	CHECKED:	SLG	APPROVED:	JMH
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NO.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SEWER DETAILS

SHEET:	CD-6
OF:	11
JOB NO.:	20227.00
DWG:CD_DET_1	

M:\TOLEDO\20227.00 Task 3 Water and Sewer Improvements\Plansset\General\CD_DET_1.dwg, 1/14/2022 4:29 PM, ARTEMIS ZAFARI

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DETAIL NAME
NTS

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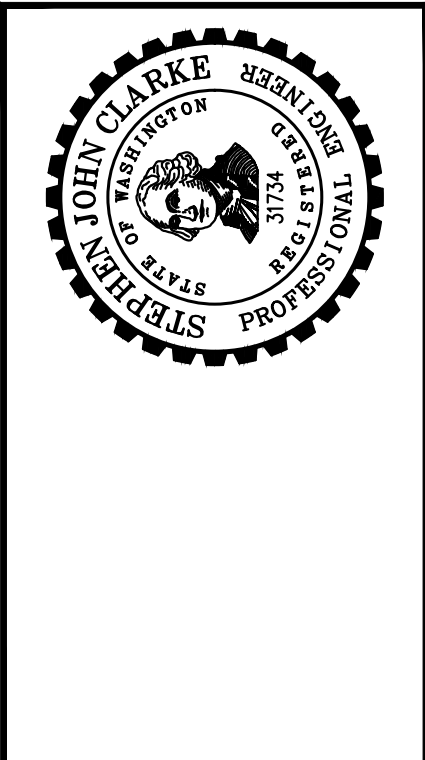
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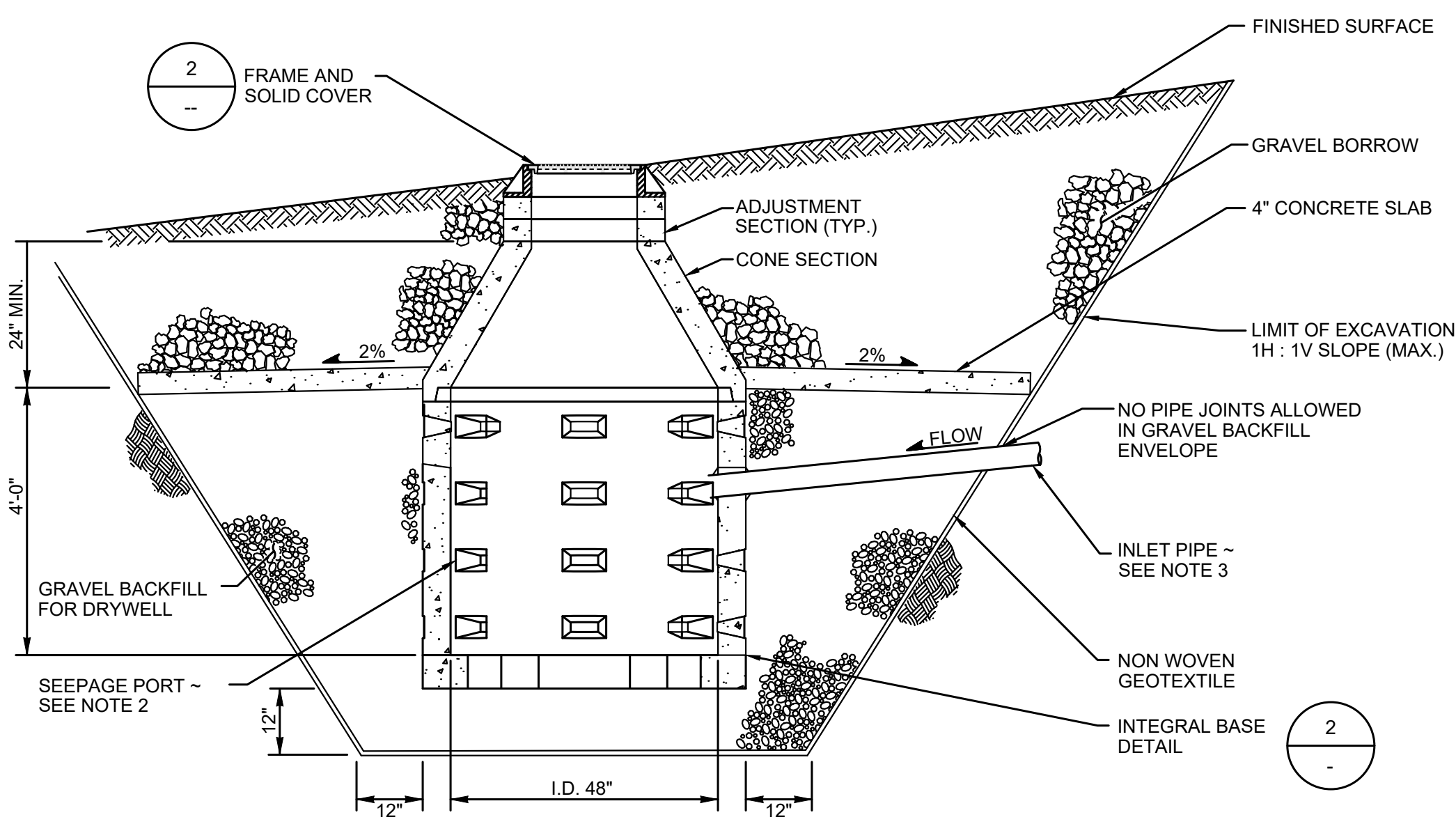
DATE:	JAN 2022
DRAWN:	JPW
CHECKED:	SLG
APPROVED:	JMH

60% PLANSET	DATE	APPD
	REVISION	
No.		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SEWER DETAILS

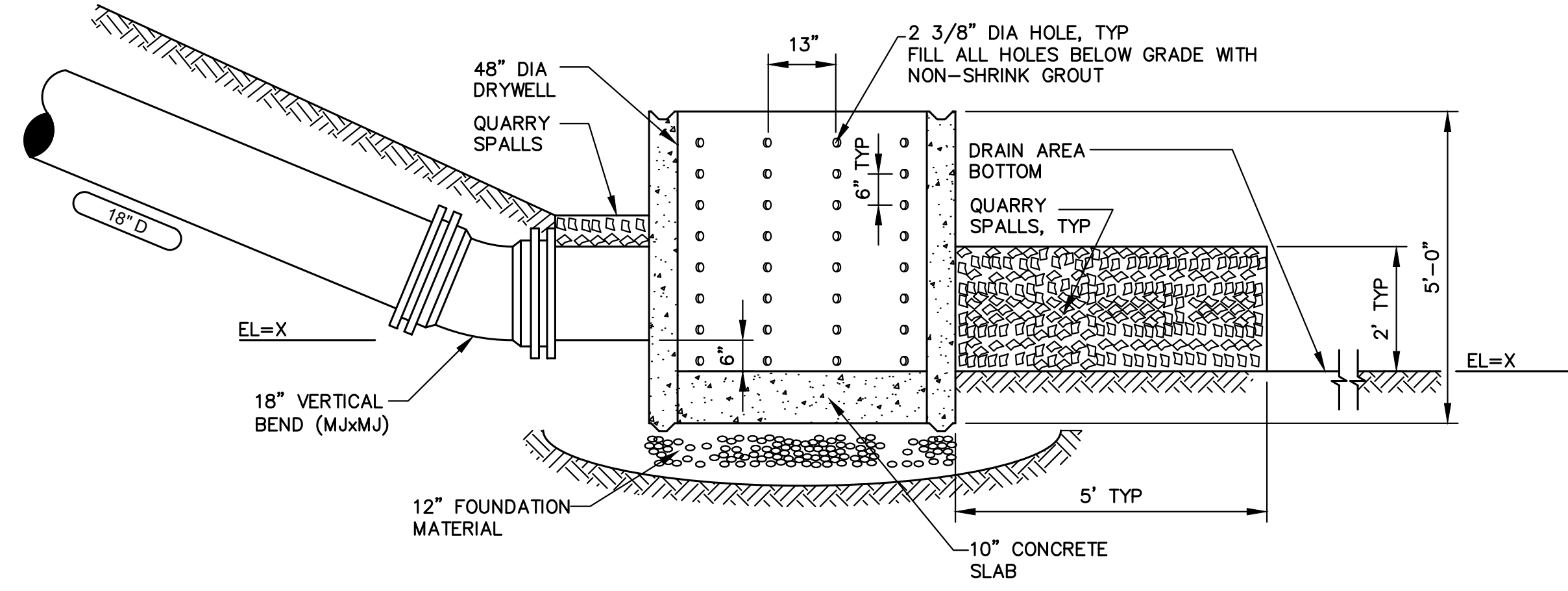
SHEET:	CD-7
OF:	11
JOB NO.:	20227.00
DWG:	CD_DET_1



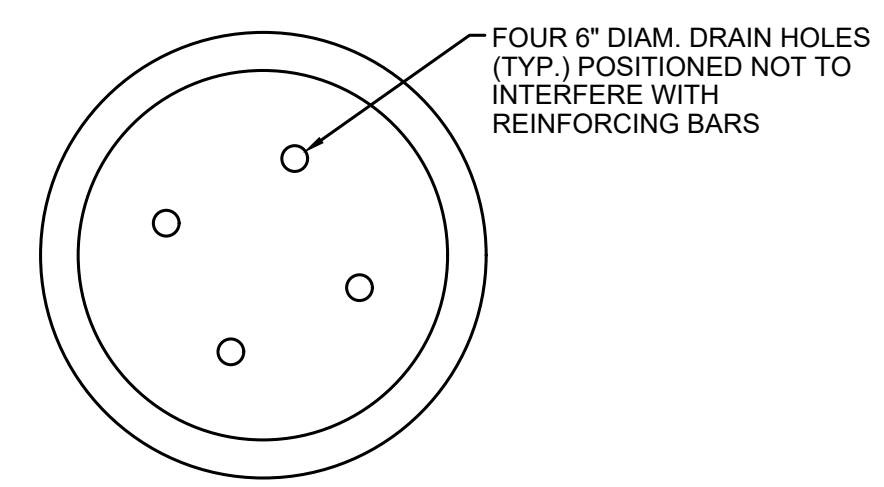
NOTES:

1. PRECAST CONCRETE CONE SECTIONS MAY BE ECCENTRIC OR CONCENTRIC.
2. SEEPAGE PORT ORIENTATION VARIES AMONG MANUFACTURERS.
3. CONNECT INLET PIPE TO STRUCTURE USING PRECAST HOLE OR CORE DRILLED HOLE WITH MANHOLE ADAPTER (KOR-N-SEAL BOOT, OR EQUAL)
4. WHEN NECESSARY, KNOCKOUTS ON PRECAST CONE, DRYWELL BASE AND RISER SECTIONS SHALL HAVE A WALL THICKNESS OF 1 1/2" MINIMUM AND 2" MAXIMUM.

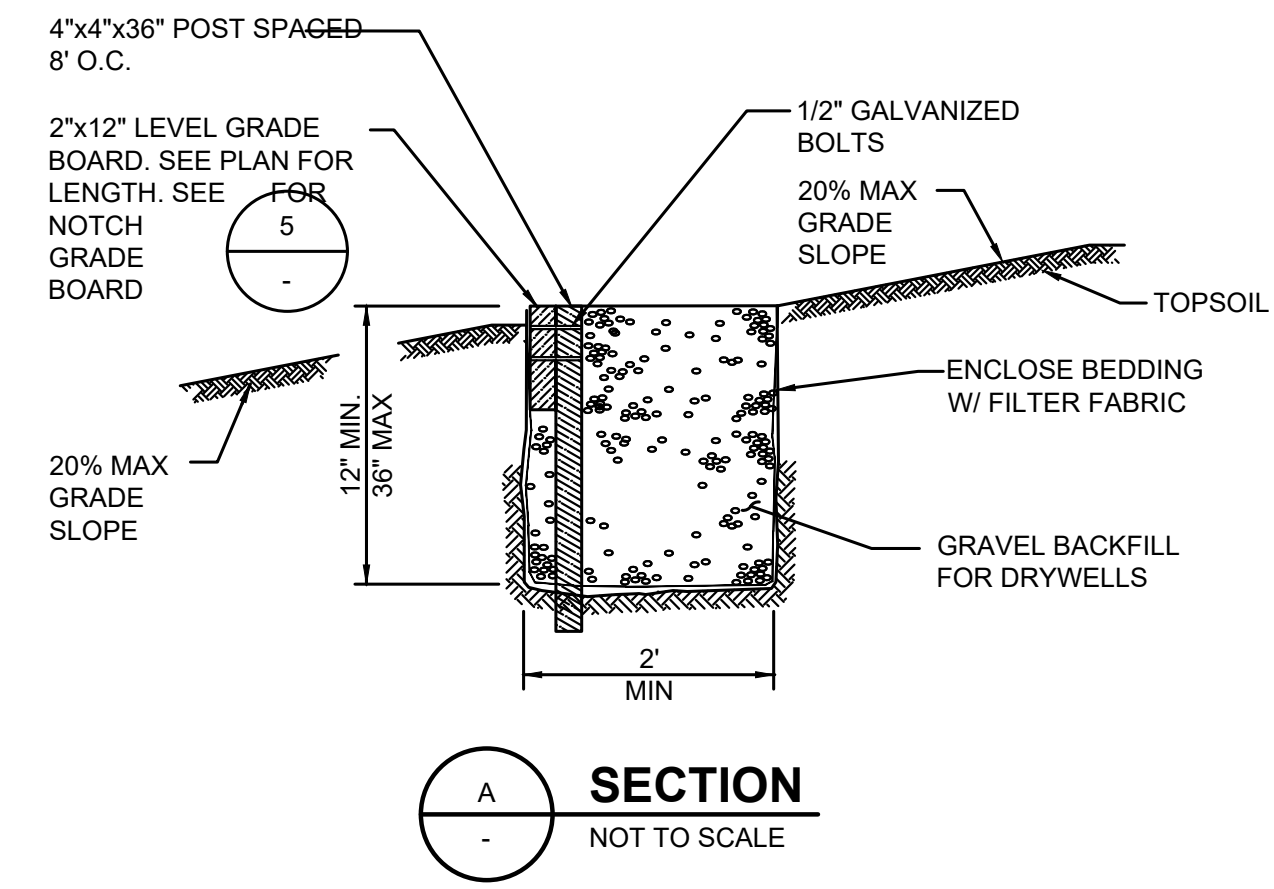
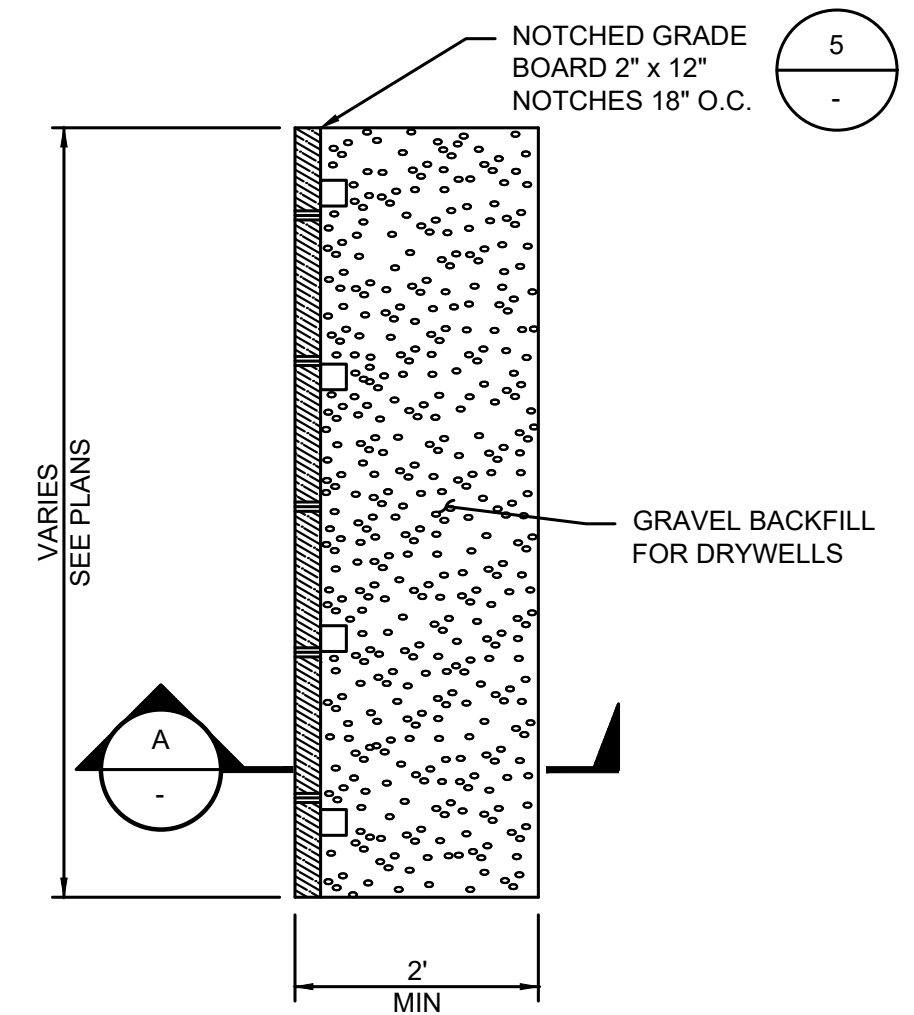
1 DRYWELL
SCALE 1/2" = 1'-0"



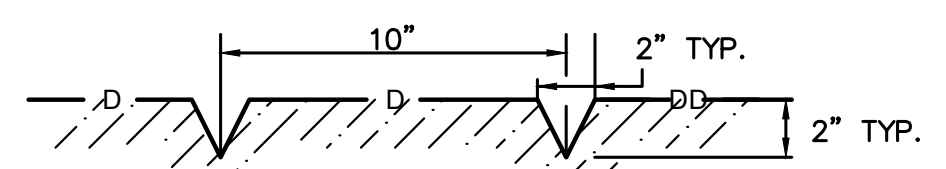
3 EROSION CONTROL OUTLET STRUCTURE
SCALE: 1/2" = 1'-0"



2 INTEGRAL BASE DETAIL
NOT TO SCALE



4 LEVEL SPREADER BOARD
NOT TO SCALE



5 NOTCHED GRADE BOARD
NOT TO SCALE

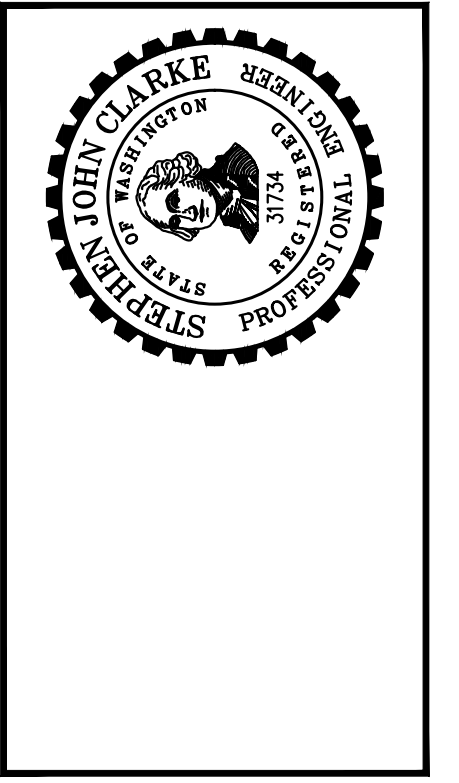
- NOTES:**
1. THIS TRENCH SHALL BE CONSTRUCTED SO AS TO PREVENT POINT DISCHARGE AND/OR EROSION.
 2. TRENCHES MAY BE PLACED NO CLOSER THAN 50 FEET TO ONE ANOTHER. (100 FEET ALONG FLOWLINE)
 3. TRENCH AND GRADE BOARD MUST BE LEVEL. ALIGN TO FOLLOW CONTOURS OF SITE.
 4. SUPPORT POST SPACING AS REQUIRED BY SOIL CONDITIONS TO ENSURE GRADE BOARD REMAINS LEVEL.
 5. GRADE BOARD AND SUPPORTS SHALL BE MADE OF POLYMER COMPOSITE NUMBER. (TREX OR EQUAL)

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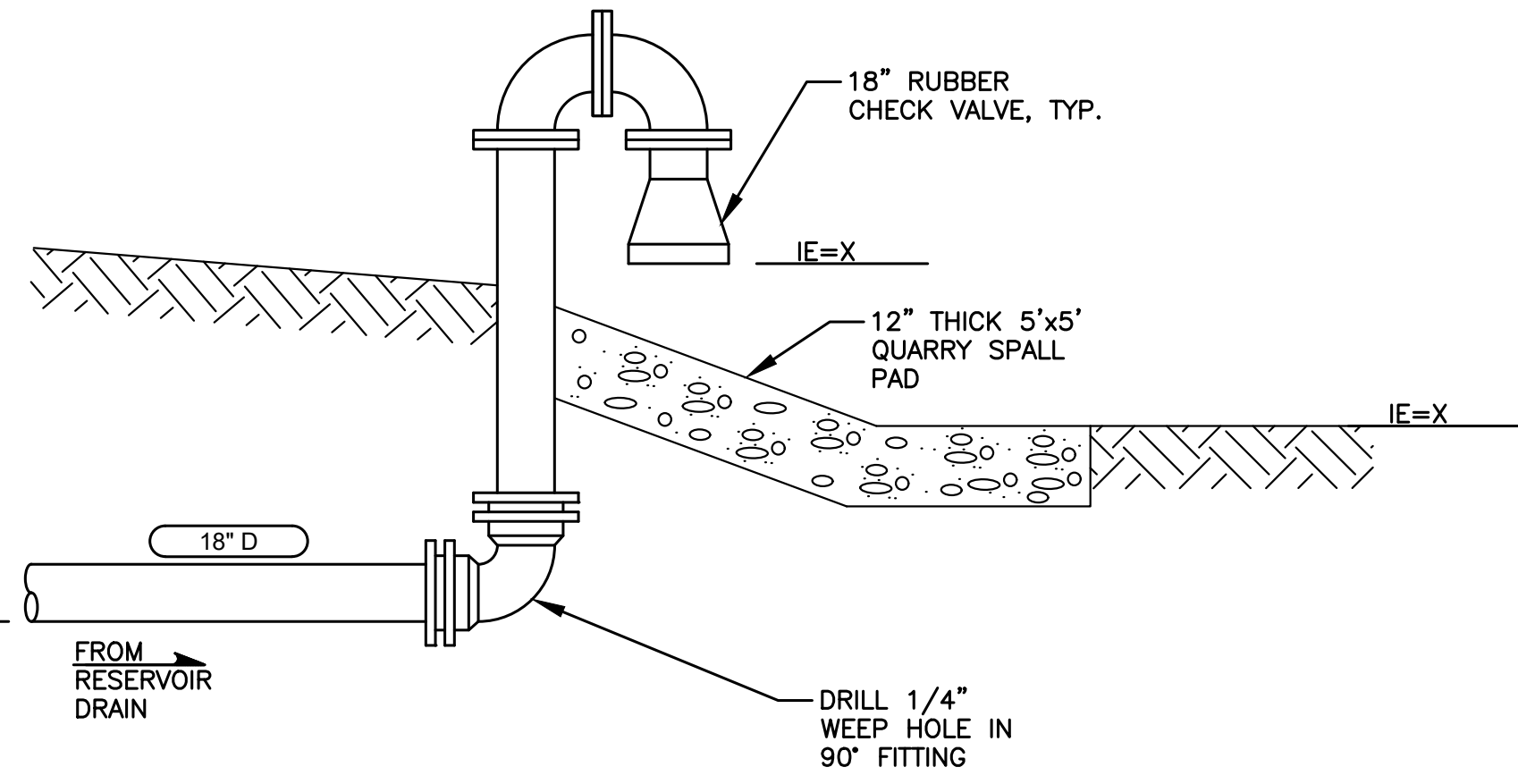
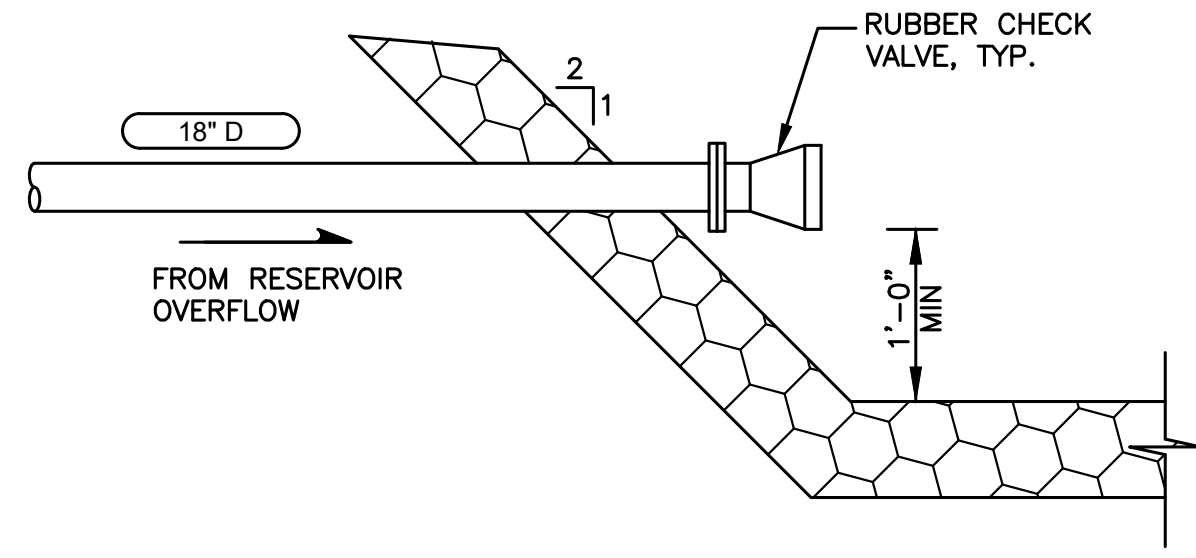
DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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REVISION	DATE	APPD
60% PLANSET		

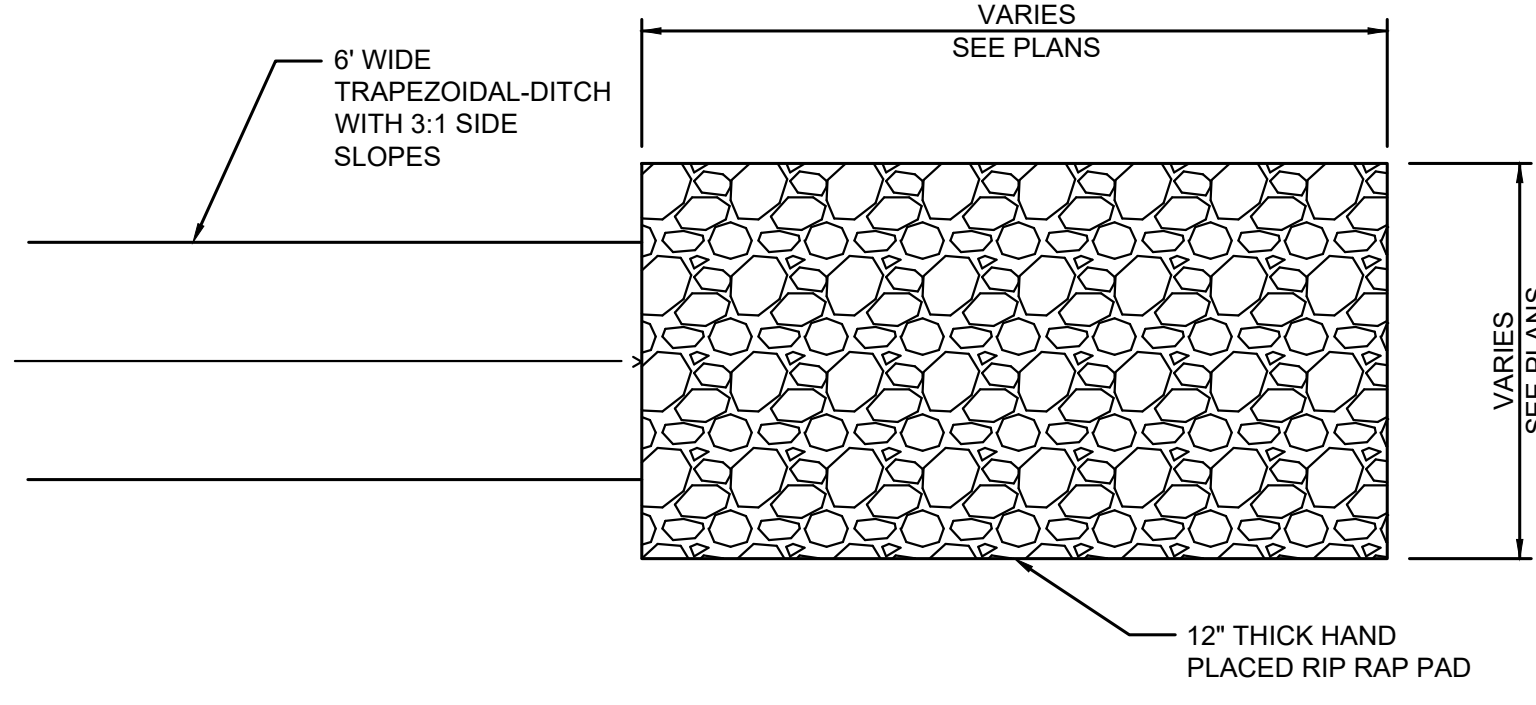


CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
STORM DETAILS

SHEET: CD-8
OF: 11
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DWG_CD_DET_2



DRAIN OUTLET
NOT TO SCALE



ROCK PAD
NOT TO SCALE

DETAIL NAME
NTS

DETAIL NAME
NTS

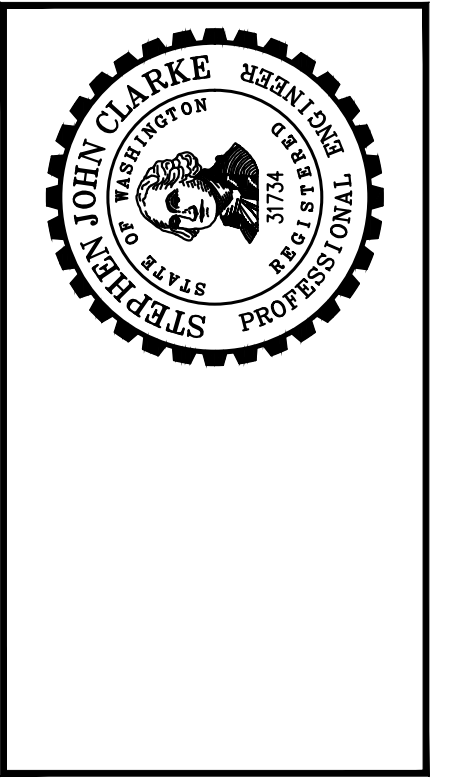
DETAIL NAME
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DETAIL NAME
NTS

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REVISION	DATE	APPD
60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
STORM DETAILS

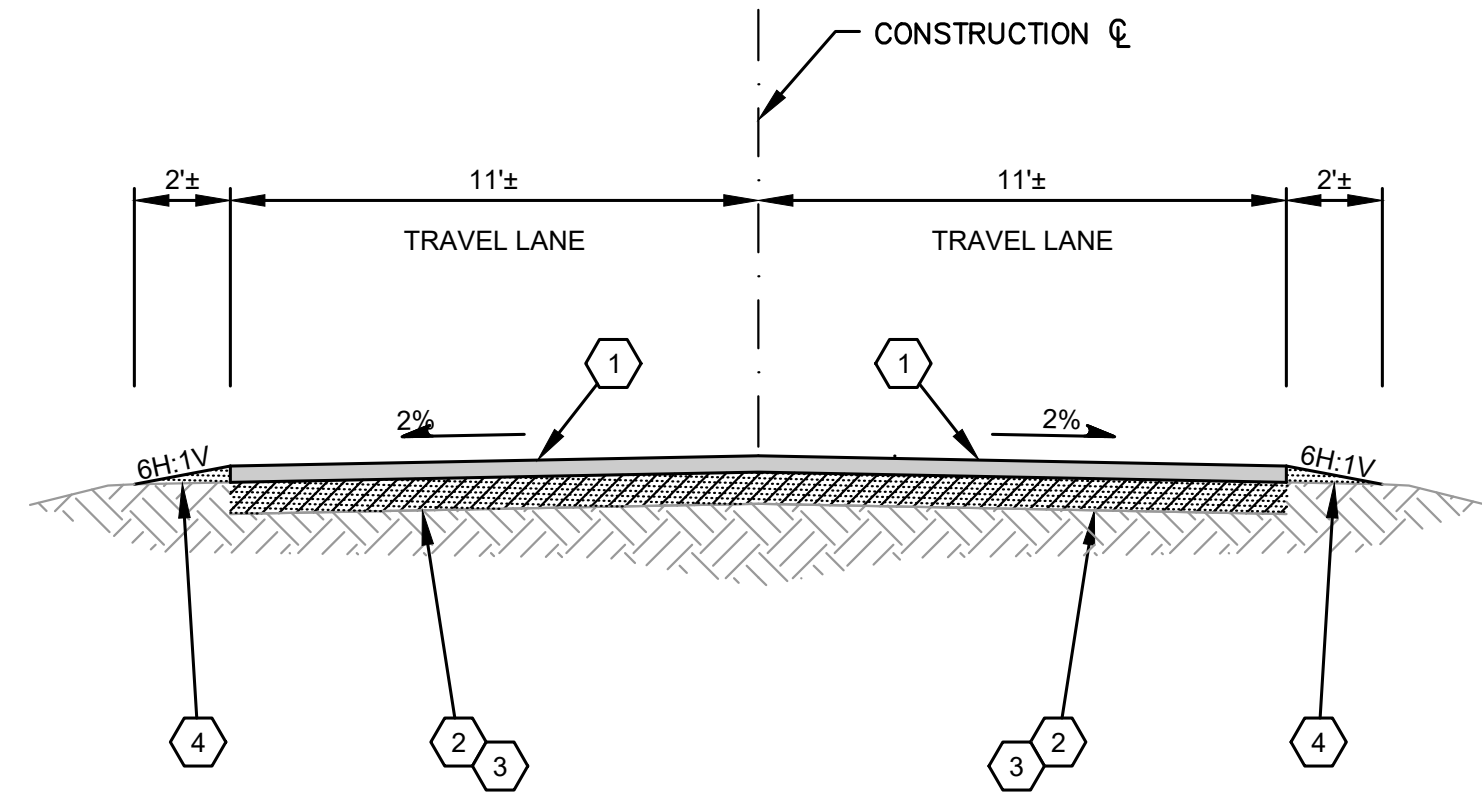
SHEET:	CD-9
OF:	11
JOB NO.:	20227.00
DWG CD_DET_2	

LEGEND:

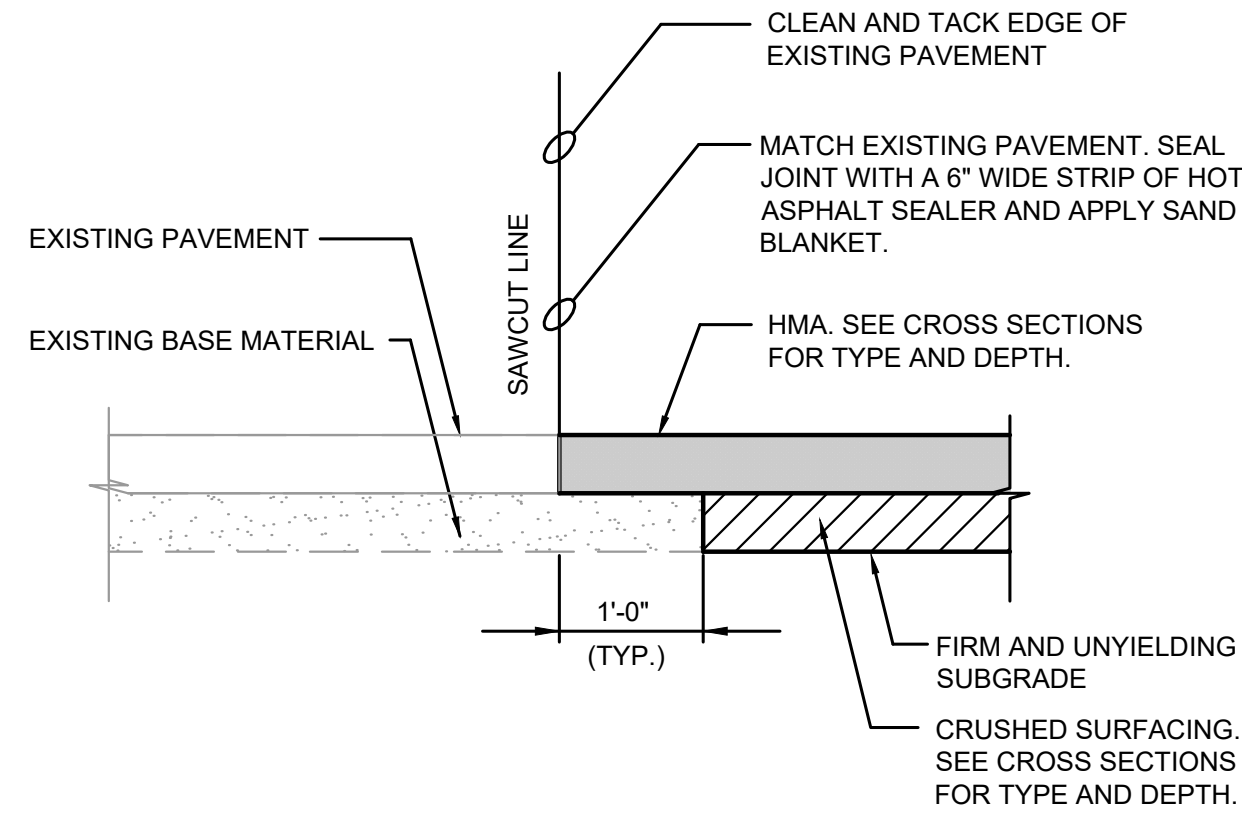
- ① 3" HMA CL 1/2" PG 58H-22.
- ② 4" CRUSHED SURFACING TOP COURSE.
- ③ EXCAVATE EXISTING 4" BELOW BOTTOM OF EXISTING ASPHALT.
- ④ PLACE CRUSHED SURFACING TOP COURSE FROM EDGE OF PAVEMENT TO MEET SLOPE SHOWN.

NOTES:

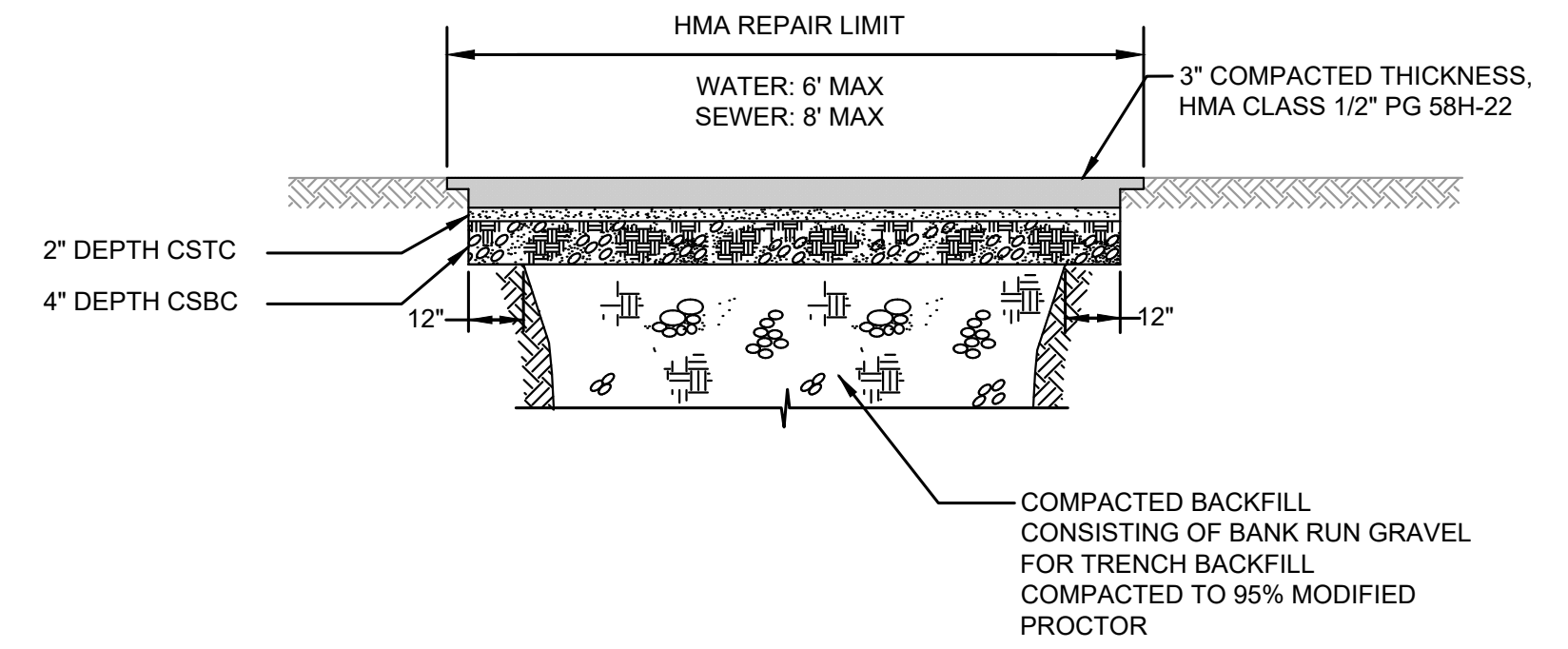
1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS.
2. CONTRACTOR SHALL SURVEY EXISTING ROADWAY CENTERLINE TO RE-ESTABLISH ROADWAY CENTERLINE GRADES.



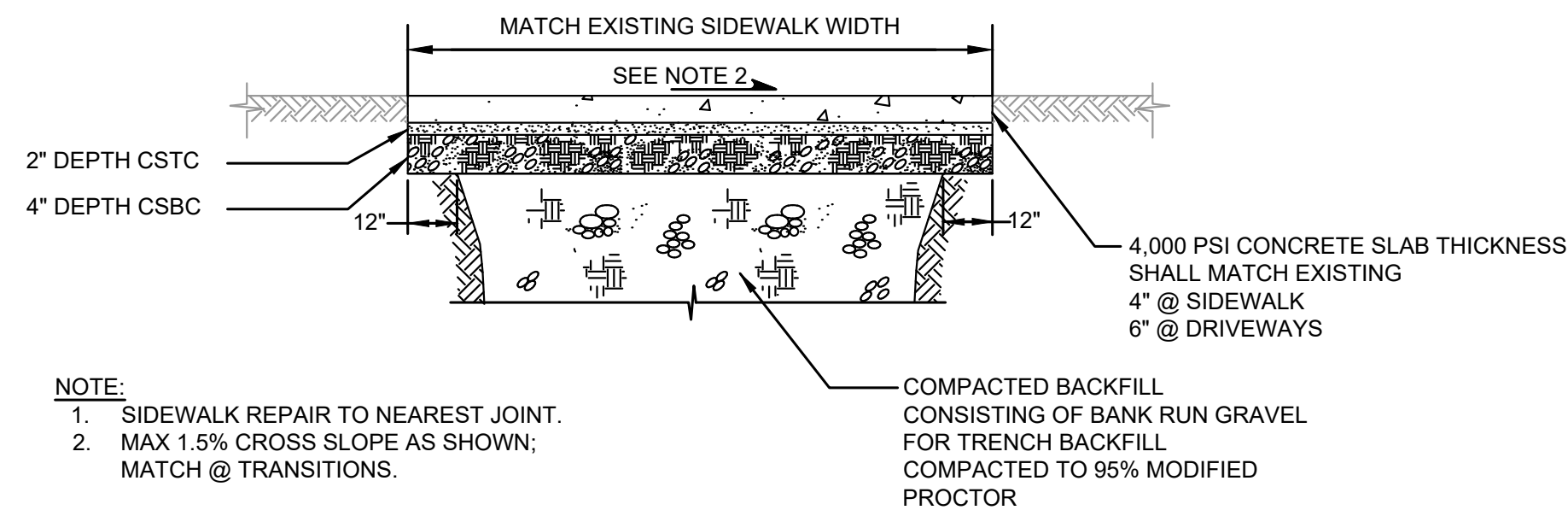
① **xxx**
x NOT TO SCALE



② **BUTT JOINT DETAIL**
TYP NOT TO SCALE



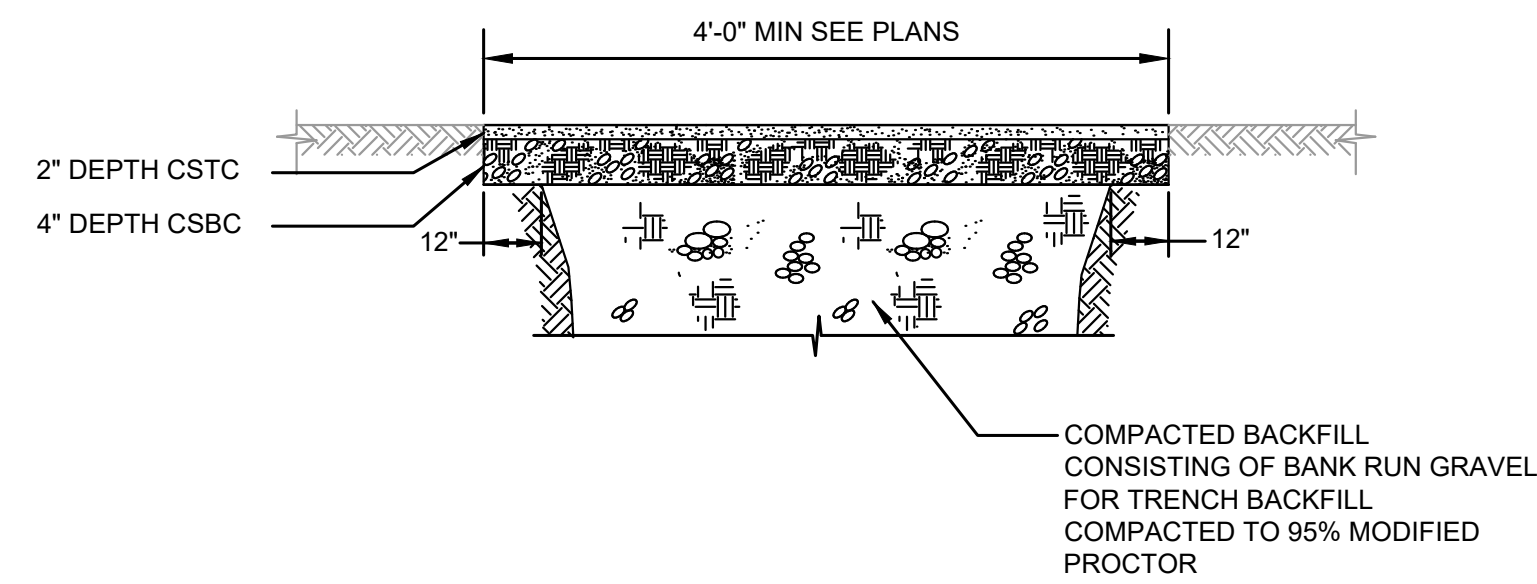
③ **HMA REPAIR**
TYP NOT TO SCALE



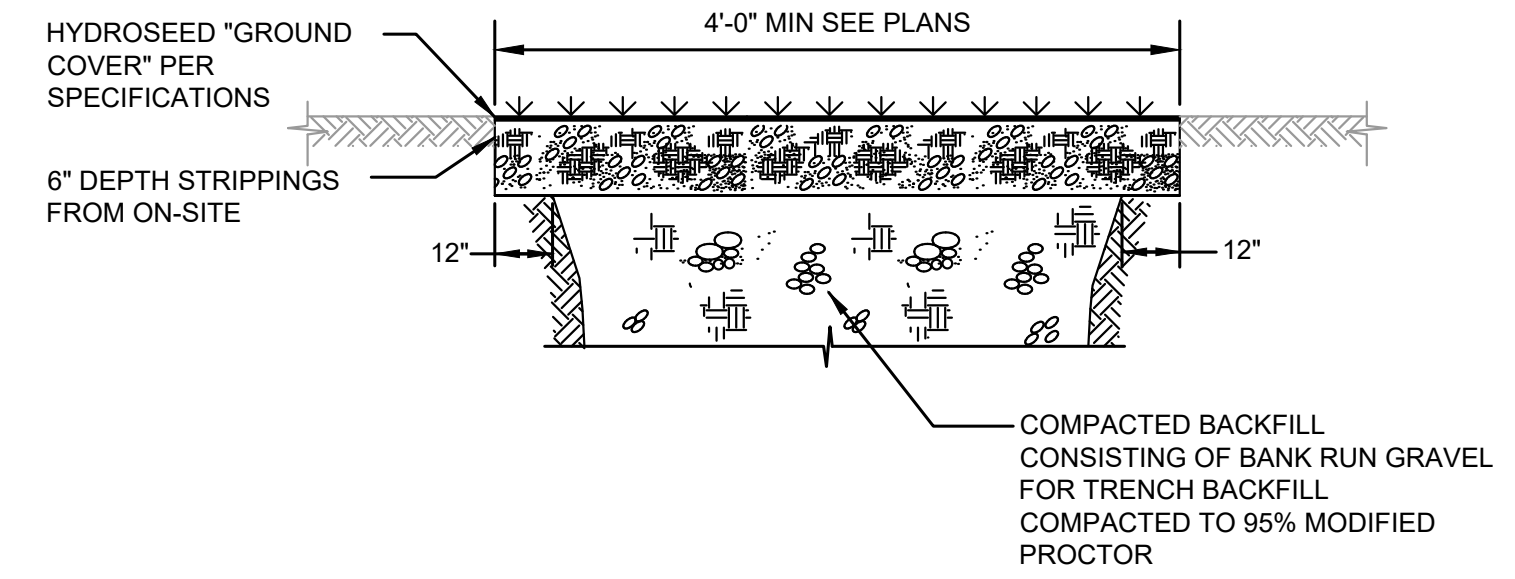
NOTE:

1. SIDEWALK REPAIR TO NEAREST JOINT.
2. MAX 1.5% CROSS SLOPE AS SHOWN; MATCH @ TRANSITIONS.

④ **CEMENT CONCRETE SIDEWALK REPAIR**
TYP NOT TO SCALE



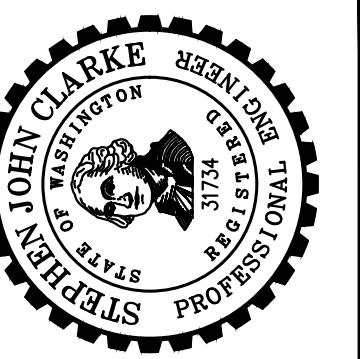
⑤ **GRAVEL REPAIR**
TYP NOT TO SCALE

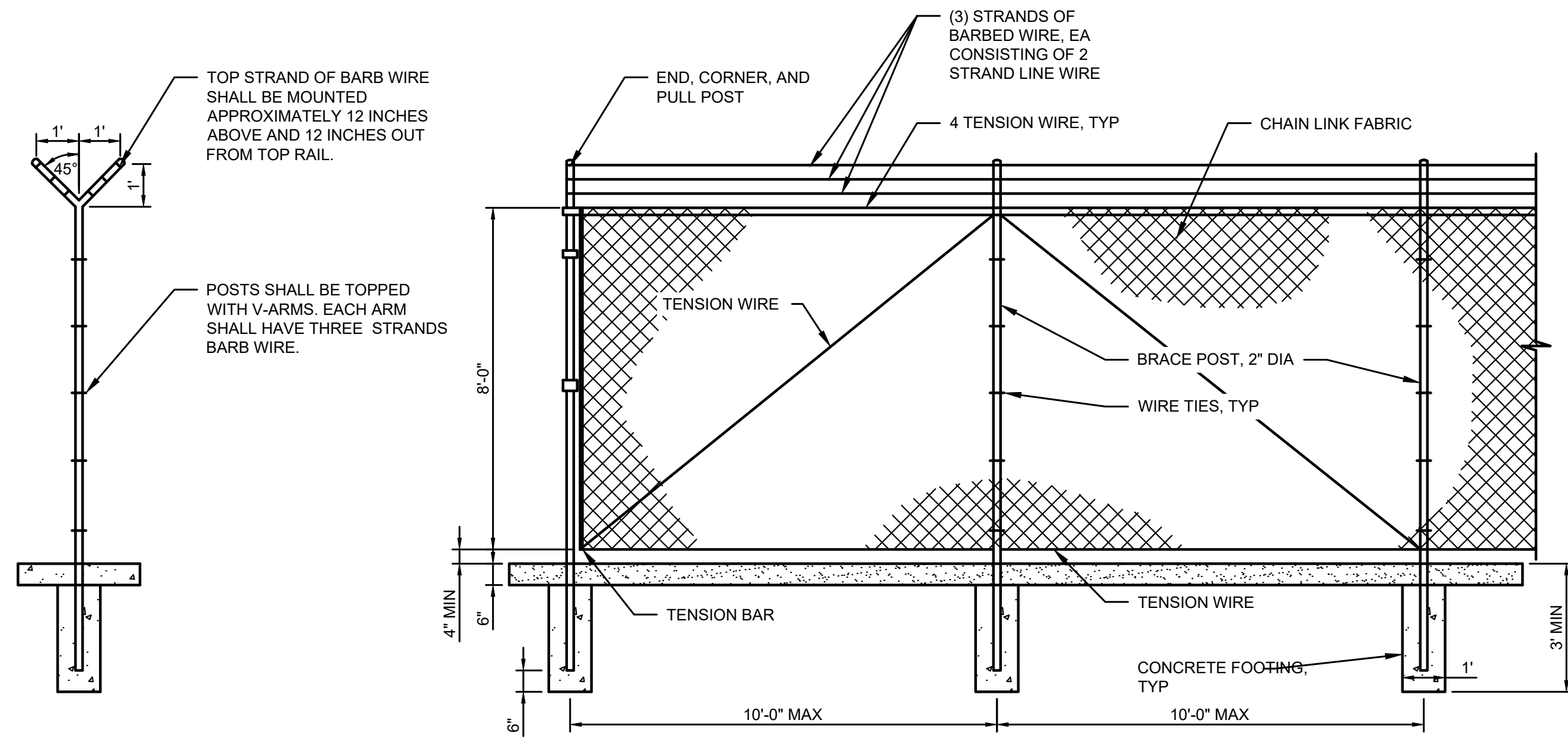


⑥ **HYDROSEED REPAIR**
TYP NOT TO SCALE

DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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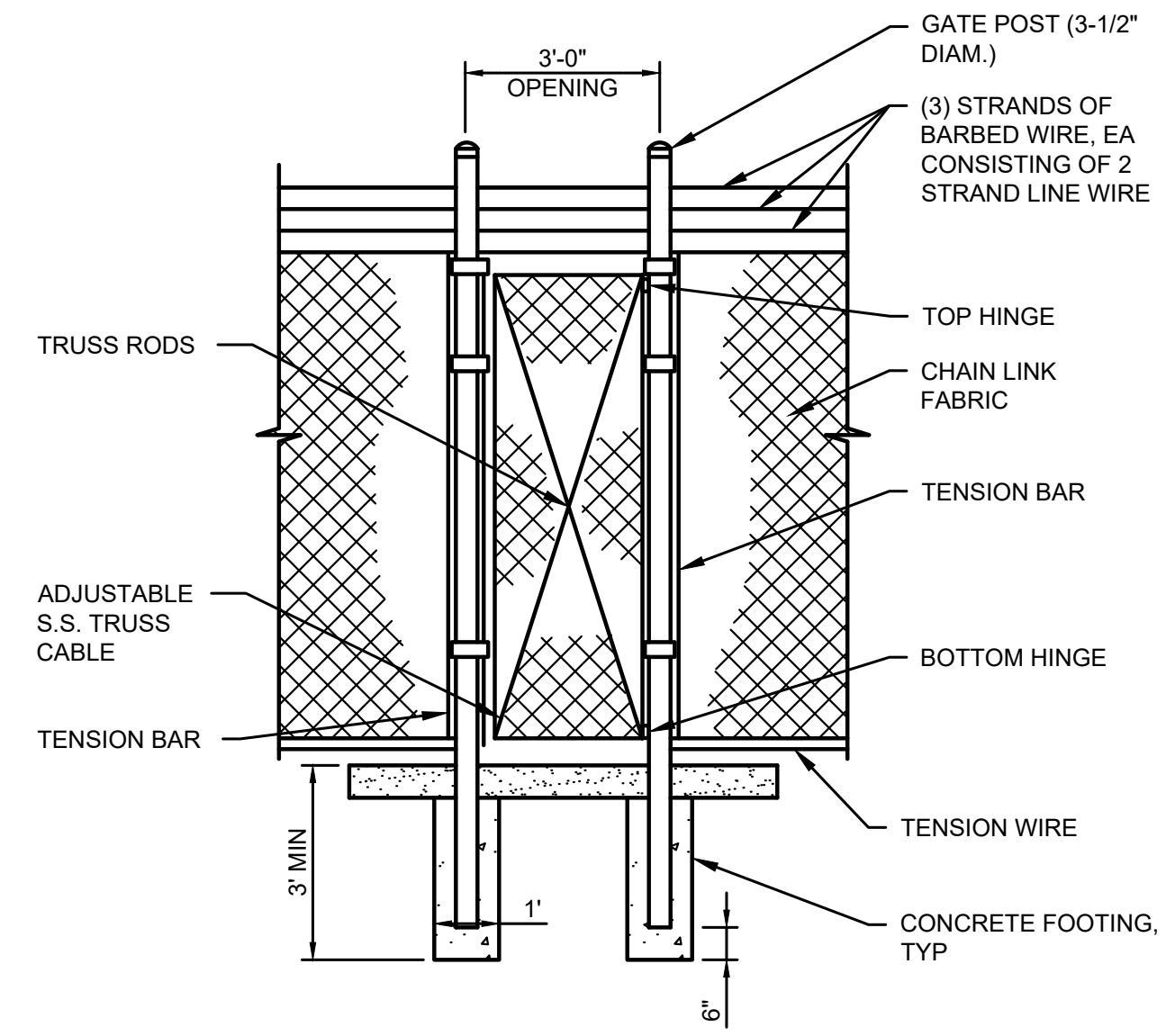
60% PLANSET	DATE	APPD
	REVISION	
	No.	





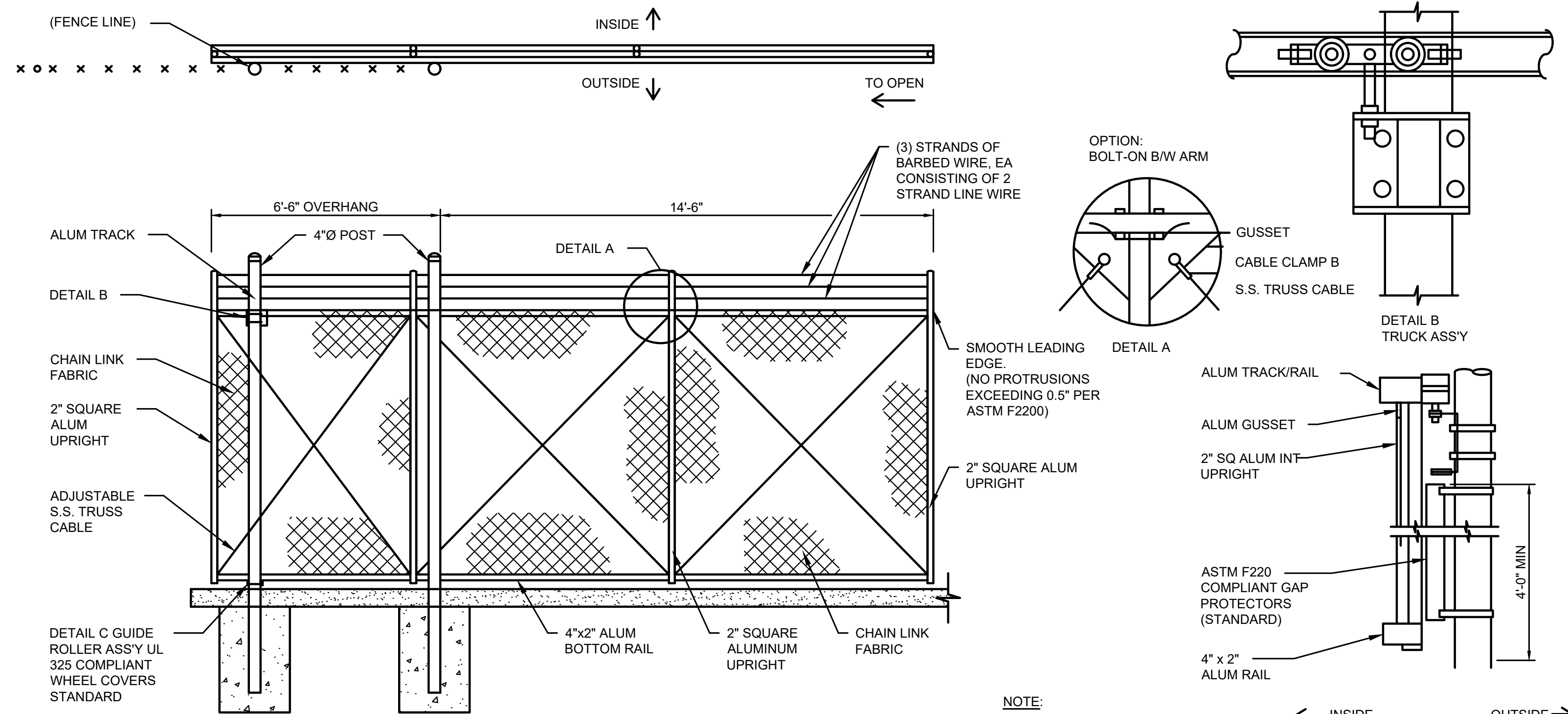
NOTE:
1. CHAINLINK FENCING SHALL BE COATED WITH BLACK VINYL.

1 FENCE DETAILS
SCALE: 3/8"=1'-0"



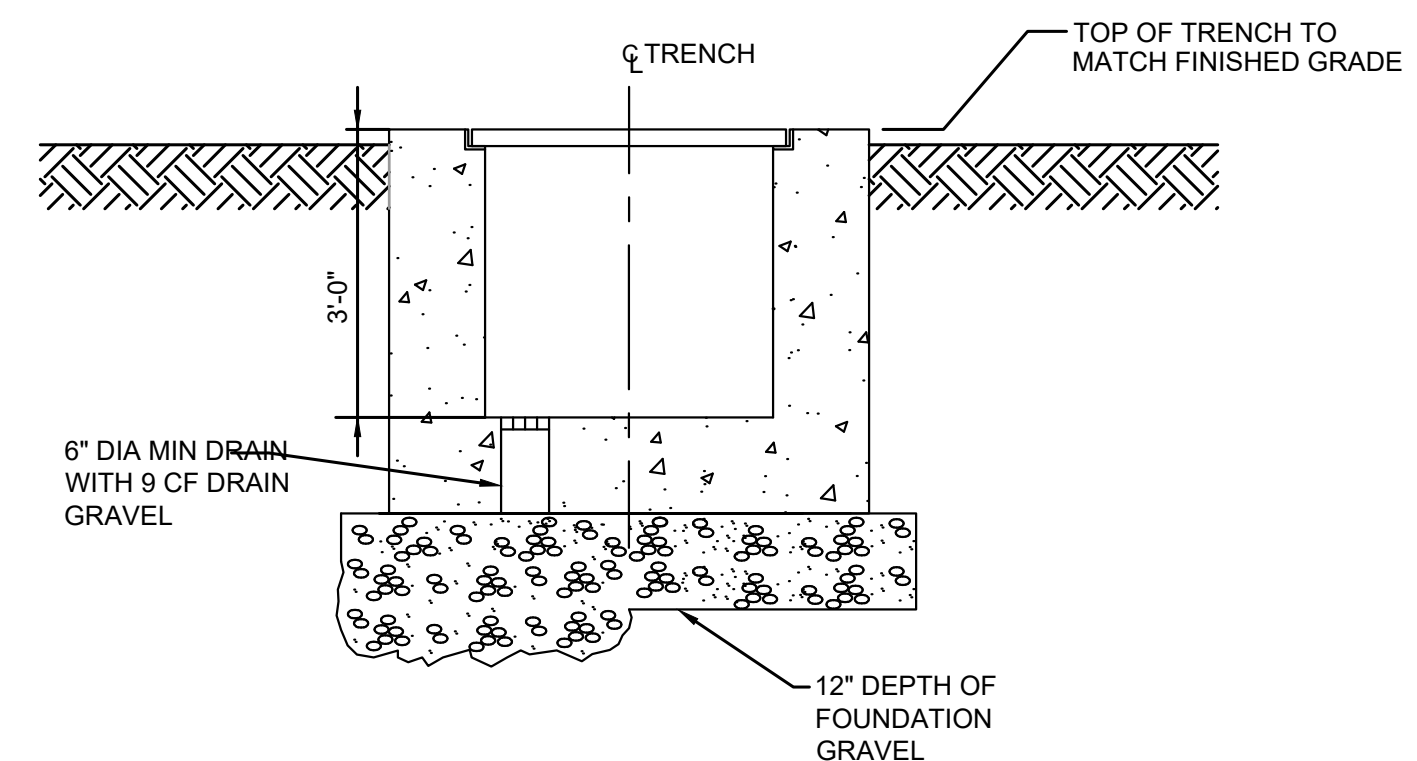
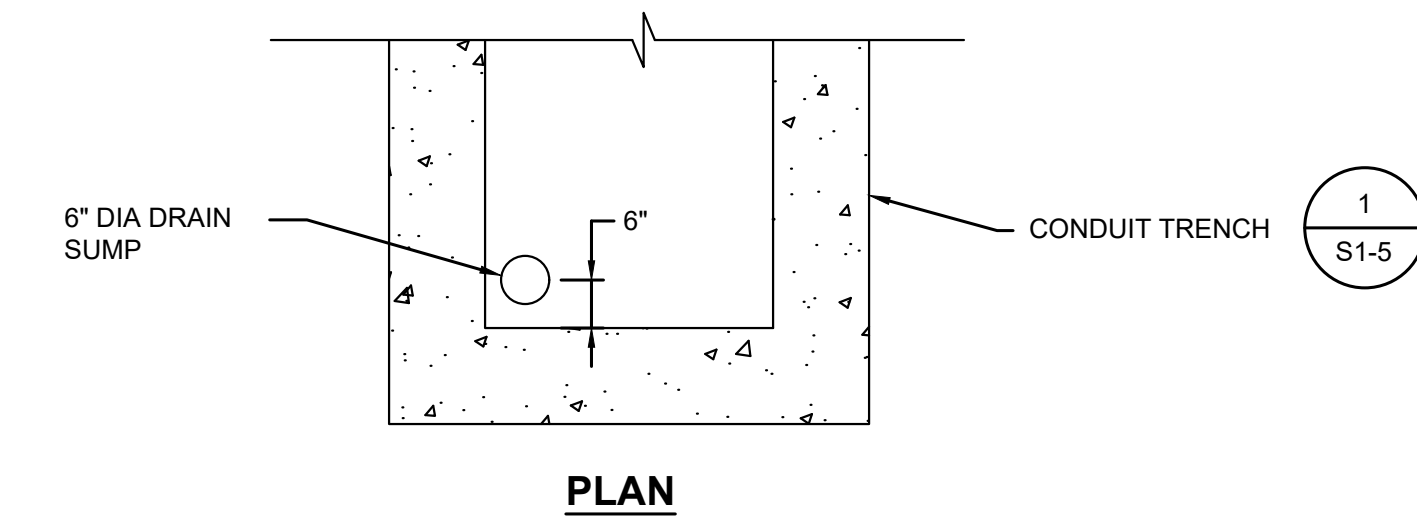
NOTE:
1. CHAINLINK FENCING SHALL BE COATED WITH BLACK VINYL.

2 3' MAN GATE
SCALE: 3/8"=1'-0"



NOTE:
1. CHAINLINK FENCING SHALL BE COATED WITH BLACK VINYL.

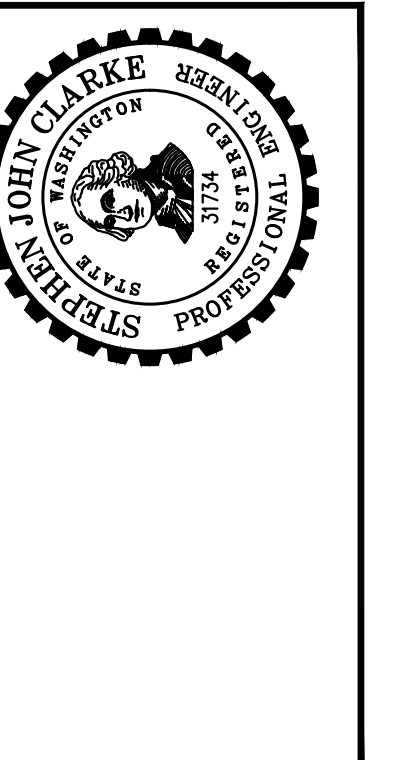
3 RESERVOIR CANTILEVER SLIDING GATE DETAILS
SCALE: 3/8"=1'-0"



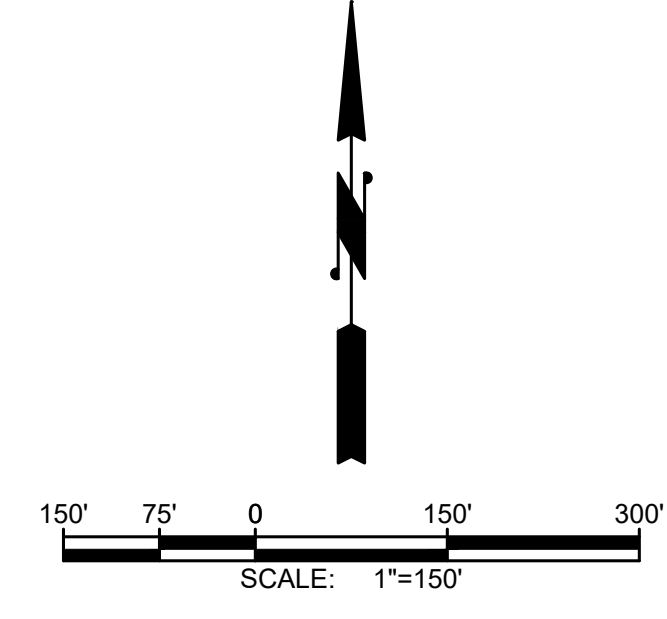
4 CONDUIT TRENCH
SCALE: 1/2"=1'-0"

DATE: JAN 2022	DRAWN: JPW	CHECKED: SLG	APPROVED: JMH
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No.	REVISION	DATE	APPD



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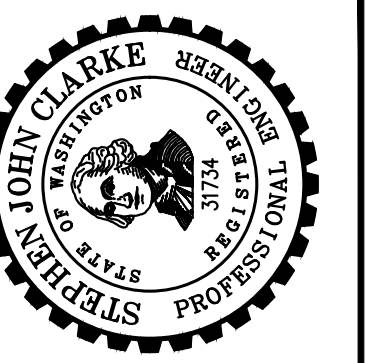
RIGHT-OF-WAY DISCLAIMER

The right-of-way and/or property lines shown herein are based on available information, not on a surveyed location and are only approximate.



DATE:	JAN 2022
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No.	REVISION	DATE	APPD
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CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
PIPE SYMBOLS, GENERAL SYMBOLS, AREA & EQUIPMENT IDENTIFICATIONS

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

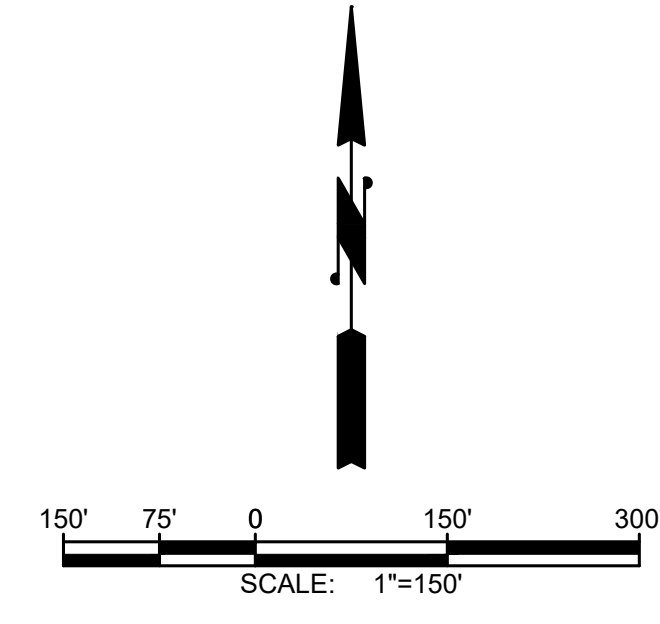
EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

SHEET:	M-1
OF:	7
JOB NO.:	20227.00
DWG M_DET	

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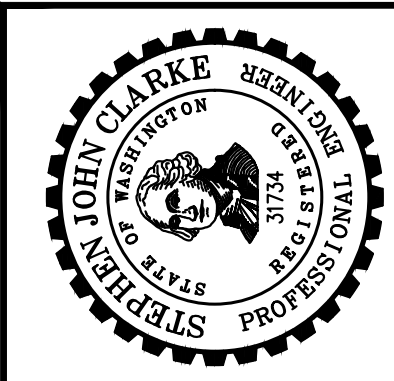
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DATE: JAN 2022
DRAWN:
CHECKED:
APPROVED:

No.	REVISION	DATE	APPD
	60% PLANSET		



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
SCHEDULE B - SEWER IMPROVEMENTS
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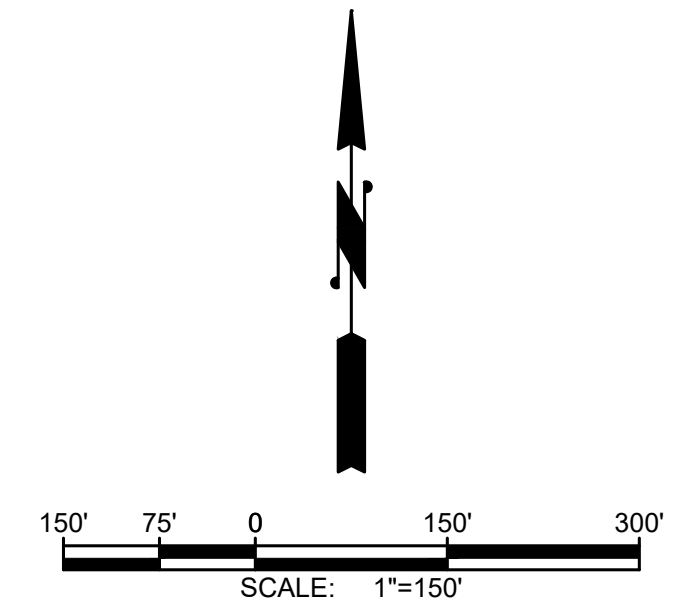
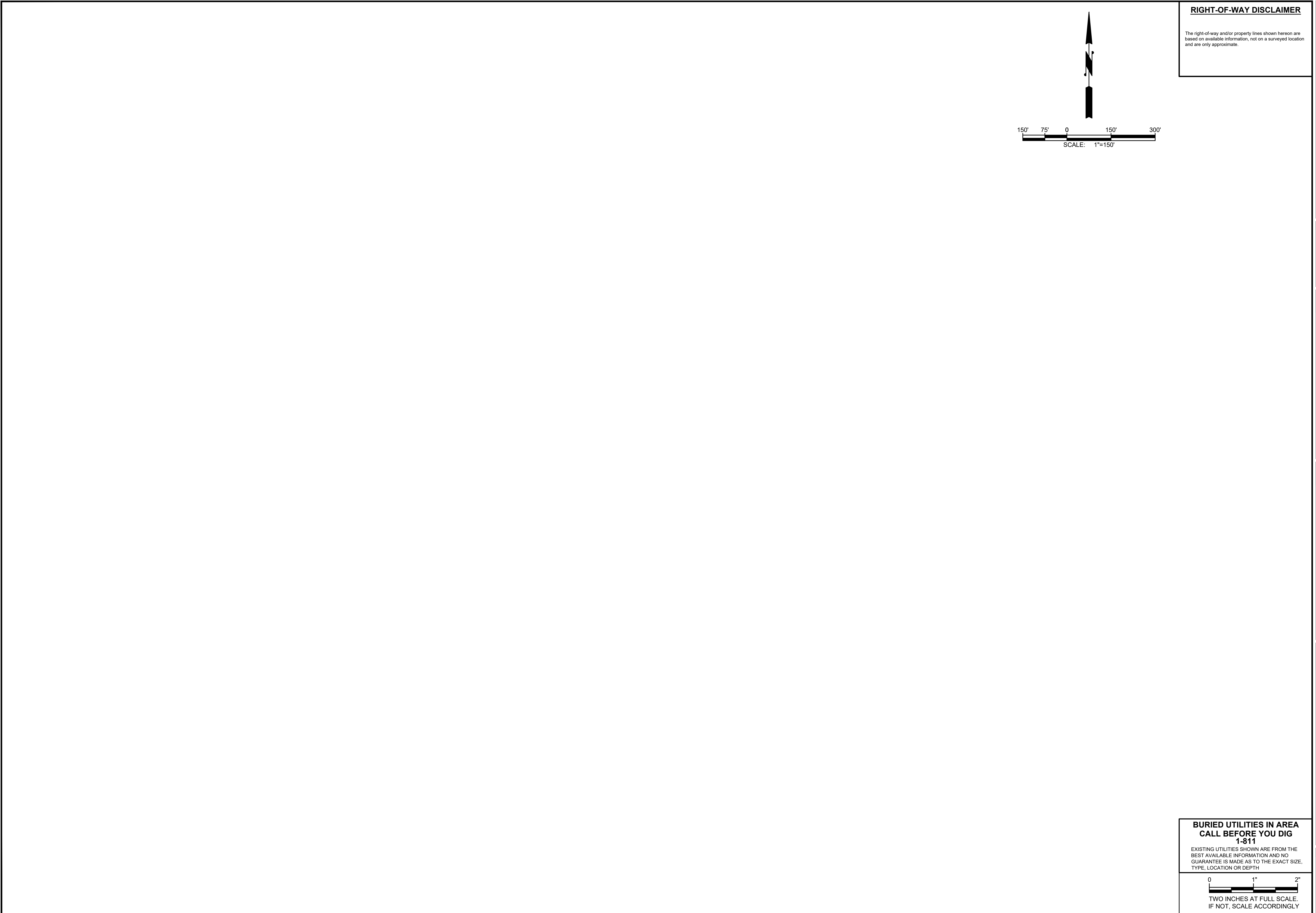
**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH



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OF:
JOB NO.: 20227.00
DWGH_DET

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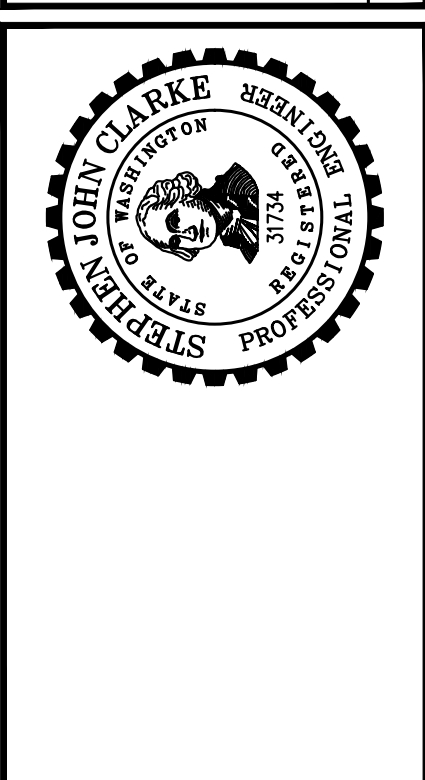
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CONSULTING ENGINEERS
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CHECKED:	XXX
APPROVED:	XXX

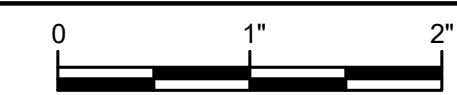
No.	REVISION	DATE	APPD
60% PLANSET			



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
HVAC PLAN

BURIED UTILITIES IN AREA CALL BEFORE YOU DIG 1-811

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SHEET:	H1-2
OF:	2
JOB NO.:	20227.00
DWG#:	PLAN

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RIGHT-OF-WAY DISCLAIMER

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DATE:	JAN 2022
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APPROVED:	XXX

60% PLANSET	REVISION	DATE	APPD
	No.		

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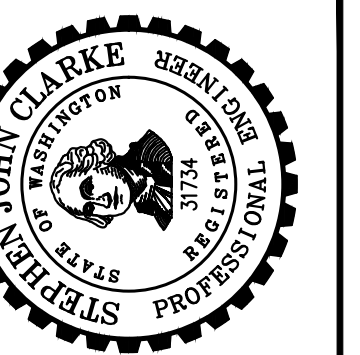
 **DETAIL NAME**
NTS

**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

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IF NOT, SCALE ACCORDINGLY



CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS

GENERAL STRUCTURAL NOTES
AND TYPICAL DETAIL

SHEET: **S-1**
OF: **6**

JOB NO.: 20227.00
DWG: S_DET

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DATE:	JAN 2022
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APPROVED:	XXX

REVISION	DATE	APPD
60% PLANSET		
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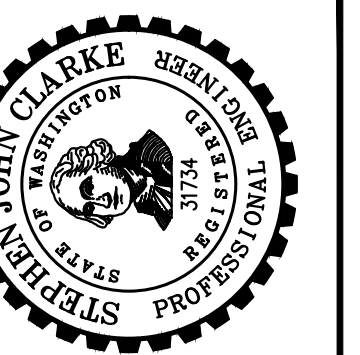
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DETAIL NAME
NTS

**BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-811**

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CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
TYPICAL STRUCTURAL DETAILS

SHEET: **S-2**
OF: **6**
JOB NO.: 20227.00
DWG: S_DET

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RIGHT-OF-WAY DISCLAIMER

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REVISION	DATE	APPD
60% PLANSET		
No.		

 **DETAIL NAME**
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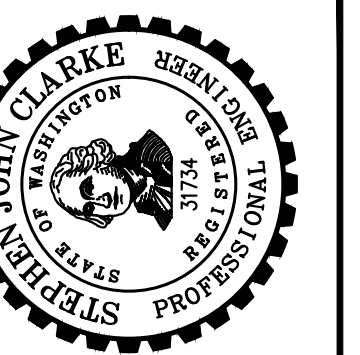
 **DETAIL NAME**
NTS

**BURIED UTILITIES IN AREA
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1-811**

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CITY OF TOLEDO
LEWIS COUNTY WASHINGTON
WATER AND SEWER IMPROVEMENTS
TYPICAL STRUCTURAL DETAILS

SHEET:	S-3
OF:	6
JOB NO.:	20227.00
DWG S_DET	