

# HEBER PUBLIC UTILITY DISTRICT

## 7TH STREET WATER PIPELINE PROJECT

### PROJECT DESCRIPTION

HEBER PUBLIC UTILITY DISTRICT (HPUD) IS TO CONDUCT IMPROVEMENTS FOR THE WATER DISTRIBUTION PIPELINE THAT RUNS ALONG 7TH STREET FROM HEBER AVENUE TO THE FIRE HYDRANT INSTALLATION AT THE 7TH STREET TERMINATION POINT EAST OF HEFFERNAN AVENUE. THE EXISTING 4-INCH ACP DIAMETER WATER PIPELINE IS TO BE ABANDONED IN PLACE AND CAPPED AFTER THE REMOVAL OF EXISTING FITTINGS. A 6-INCH DIAMETER PVC WATER PIPELINE IS TO BE INSTALLED TO REPLACE THE OUT OF STANDARD AND UNDERSIZED EXISTING ACP PIPE. CONSTRUCTION OF THE WATERLINE WILL INCLUDE INSTALLATION OF THE NEW PVC PIPE (APPROXIMATELY 1,000 LINEAL FEET) WITHIN THE NATIVE AREAS ALONG 7TH STREET, THROUGH SEVERAL SEGMENTS OF PAVEMENT, CONNECTION OF SIXTEEN (16) WATER SERVICE LINES WITH WATER METERS, INSTALLATION OF THIRTEEN (13) ISOLATION VALVES AND VARIOUS PIPE FITTINGS TO CONNECT THE NEW 6-INCH PVC WATER PIPELINE TO THE EXISTING WATER DISTRIBUTION PIPE SYSTEM, AND INSTALLATION OF THE FIRE HYDRANT AT THE TERMINATION POINT 180 FEET EAST OF HEFFERNAN AVENUE.

CONSTRUCTION OF THE WATER PIPELINE WILL REQUIRE ADDITIONAL WORK WHICH WILL CONSIST OF TRAFFIC CONTROL, EROSION CONTROL, AND ASPHALT PAVEMENT. THE TRAFFIC CONTROL PLANS WILL BE INCLUDED WITH THE DESIGN. IT SHALL BE NECESSARY FOR THE CONTRACTOR TO PROVIDE LOCAL ACCESS TO THE RESIDENCES AND ANY BUSINESSES LOCATED ALONG THE LENGTH OF THE PROJECT. EROSION CONTROL PLANS WILL BE INCLUDED WITH THE DESIGN AND WILL BE REQUIRED TO BE IMPLEMENTED DURING CONSTRUCTION. EXISTING ASPHALT PAVEMENT ROADWAYS WILL REQUIRE PARTIAL REMOVAL AND MILLING FOR CONSTRUCTION OF THE WATER PIPELINE. THE EXISTING ASPHALT PAVEMENT ROADS ARE TO BE REPAIRED PER THE IMPROVEMENT PLANS AND COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REQUIREMENTS. A CALTRANS ENCROACHMENT PERMIT IS TO BE ATTAINED FOR PIPELINE ALONG STATE ROUTE 86.

### IMPERIAL COUNTY PUBLIC WORKS GENERAL NOTES

#### STREET IMPROVEMENT GENERAL NOTES

- COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.
- THE STRUCTURAL SECTIONS SHALL BE IN ACCORDANCE WITH IMPERIAL COUNTY STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS-GUTTER AND PAVING.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- UTILITIES COORDINATION

NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT.

- APPROPRIATE WATER/SEWER UTILITY (760) 337-4575/(760) 337-4562
- IMPERIAL IRRIGATION DISTRICT (POWER) (760) 339-9280
- IMPERIAL IRRIGATION DISTRICT (WATER) (760) 339-9263
- AT&T (800) 422-4133
- THE GAS CO. 811
- THE CABLE COMPANY (760) 312-6512

#### EXISTING UNDERGROUND UTILITIES

BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK.

CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

ACCURATE VERIFICATIONS AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTOR'S AND CONSTRUCTION MANAGER'S RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, SBC, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER UTILITY AFFECTED BY THE PROJECT PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.

- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
- CONSTRUCT A PUBLIC STREET LIGHT SYSTEM CONFORMING TO APPROPRIATE STANDARDS AND STREET LIGHT SPECIFICATIONS. POWER SOURCES AND RUNS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL POWER SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY OR EASEMENT.
- NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
- PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS.
- ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.
- THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (442) 265-1818. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER IS 811. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS OR THEIR REPRESENTATIVE.
- NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE COUNTY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.
- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND ENCROACHMENT PERMIT REQUIREMENTS, ANY REFERENCED STANDARDS AND SPECIFICATIONS AND THE SPECIFICATIONS & THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY; WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.
- UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED MAY 2006". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.

#### PROJECT SPECIFIC NOTES:

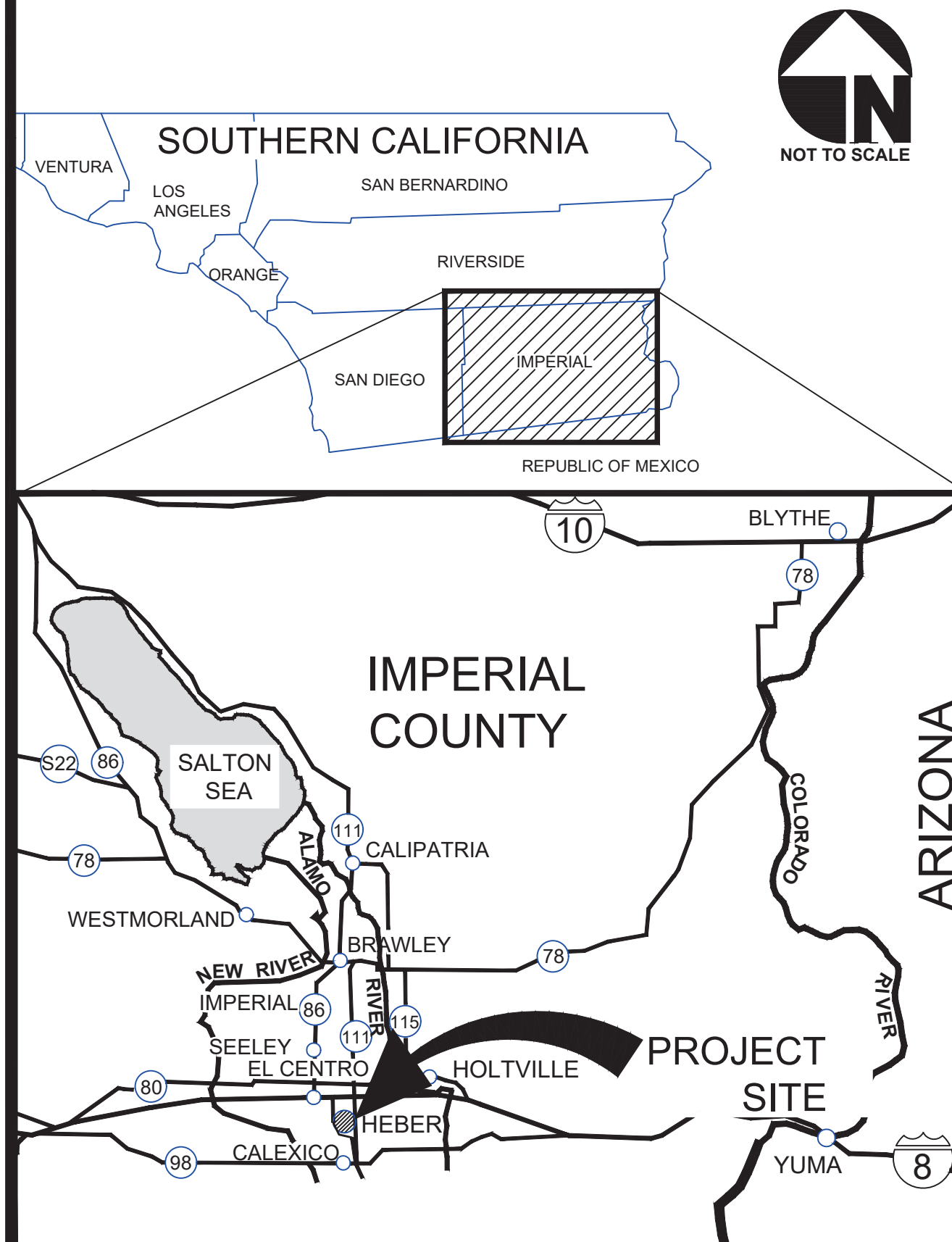
- ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER LINE SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
- IT WILL BE REQUIRED TO "POT-HOLE" THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN TEN (10) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE "POT-HOLING" ACTIVITIES WITH THE UTILITY COMPANIES AND ENGINEER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW WATER PIPELINES AND WATER SERVICE PIPELINES. THE SUBBASE DESIGN ELEVATION OF THE NEW IMPROVEMENTS. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLE, WATER, GAS, ELECTRICAL, FIBER OPTIC, COMMUNICATION, IRRIGATION AND SEWER UTILITIES. IT WILL BE REQUIRED TO POT-HOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW WATER PIPELINES AND WATER SERVICE PIPELINES. THE CONSTRUCTION MANAGER WILL OBSERVE THE UTILITIES DURING THE POT-HOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE WATER PIPELINE GRADE AS ILLUSTRATED ON THE PROFILE DRAWING. THE CONTRACTOR WILL PREPARE HIS/HER PROPOSAL BASED ON THE ASSUMPTION THAT UNDERGROUND UTILITIES WILL NOT BE REQUIRED TO BE RELOCATED BY THE CONTRACTOR.
- CONTRACTOR SHALL INSTALL THE AWWA C-900 DR 18, PRESSURE CLASS 235 PVC WATER PIPELINE TO THE SIZE AND DESIGN GRADES AS ILLUSTRATED ON THE PLAN AND PROFILES OF THE IMPROVEMENT PLANS.
- THE CONSTRUCTION MANAGER SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.
- THE EXACT LOCATION OF FIRE HYDRANTS SHALL BE DETERMINED BY THE IMPERIAL COUNTY FIRE DEPARTMENT DEPUTY FIRE MARSHALL AT THE TIME OF CONSTRUCTION (AT THE TIME THE STAKING OF THE WATER PIPELINE OCCURS). THE CONTRACTOR AND CONSTRUCTION MANAGER SHALL CONTACT THE COUNTY OF IMPERIAL DEPUTY FIRE MARSHALL AT THE FOLLOWING PHONE NUMBER: (442) 265-3020 PRIOR TO THE STAKING OF THE WATER PIPELINE. THE DEPUTY FIRE MARSHALL'S E-MAIL IS ROBERTMALEK@CO.IMPERIAL.CA.US.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING PIPELINE, VALVES, AND FITTINGS AS NOTED ON THE IMPROVEMENT PLANS.

REVISION	DATE	COMMENTS

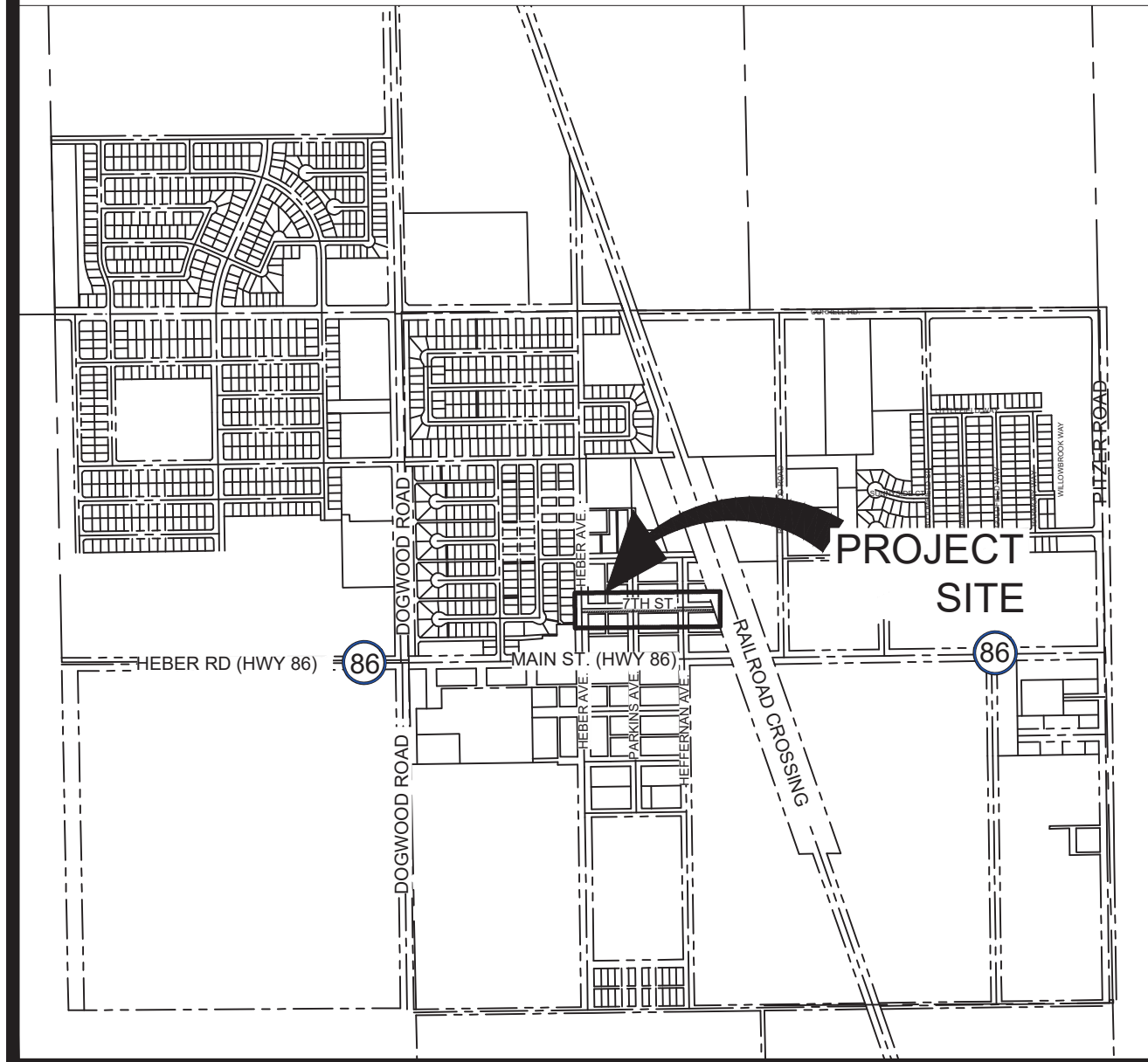
### SHEET INDEX

- TITLE SHEET
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- 7TH STREET FROM STATION 6+00E TO STATION 10+73.39
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- PIPELINE DETAILS II
- CONNECTION DETAILS I
- TRAFFIC CONTROL PLAN I
- TRAFFIC CONTROL PLAN II
- TRAFFIC CONTROL PLAN III
- EROSION CONTROL PLAN
- EROSION CONTROL PLAN DETAILS

### AREA VICINITY MAP



### SITE VICINITY MAP



### HPUD STAFF

MADELINE DESSERT	GENERAL MANAGER
JACOB BERMUDEZ	CLERK OF THE BOARD
LUIS CARRAZCO	FINANCE MANAGER
FRANCISCO RODRIGUEZ	CHIEF OPERATOR
STEVE WALKER	HPUD ATTORNEY

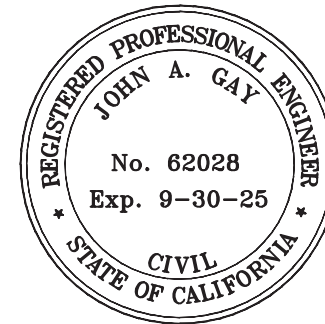
### BOARD OF DIRECTORS

HELEN DIAZ MOLINA	PRESIDENT
POMPEYO TABAREZ, JR.	VICE PRESIDENT
DELFINO P. MATUS	DIRECTOR
TONY SANDOVAL	DIRECTOR
KAINE GARCIA	DIRECTOR

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
APPROVED FOR CONSTRUCTION BY:

BY: \_\_\_\_\_  
JOHN A. GAY  
DIRECTOR OF PUBLIC WORKS  
COUNTY OF IMPERIAL

DATE: \_\_\_\_\_

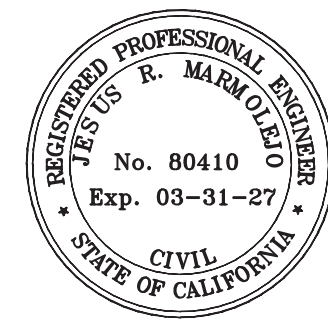


### DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF THE WORK OF THIS PROJECT, THAT I HAVE EXERISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION OF 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF IMPERIAL IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITY FOR PROJECT DESIGN.

JESUS R. MARMOLEJO  
THE HOLT GROUP, INC.  
1601 N. IMPERIAL AVENUE  
EL CENTRO, CA 92243  
(760) 337-3883



JESUS R. MARMOLEJO  
R.C.E. NO. 80410

DATE: 04/29/2025  
EXPIRATION DATE: 03-31-27

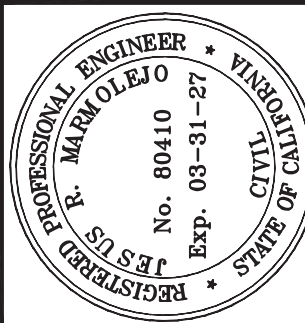


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PREPARED UNDER THE DIRECT SUPERVISION OF:

80410  
R.C.E. NO.  
03/31/27  
JESUS R. MARMOLEJO, P.E.  
04-29-2025  
REG. EXP.  
DATE



PROJECT TITLE: HEBER PUBLIC UTILITY DISTRICT - 7TH STREET WATER PIPELINE PROJECT

PROJECT NUMBER : 744.099

SHEET CONTENT : TITLE SHEET

DESIGNED BY: JM  
DRAWN BY: JM  
CHECKED BY: JM

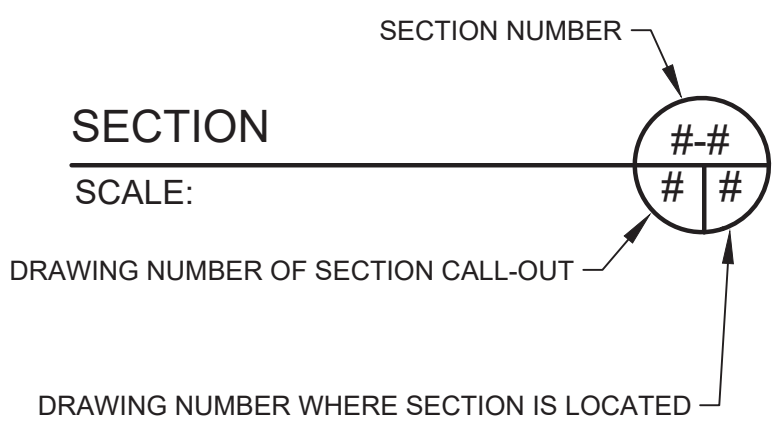
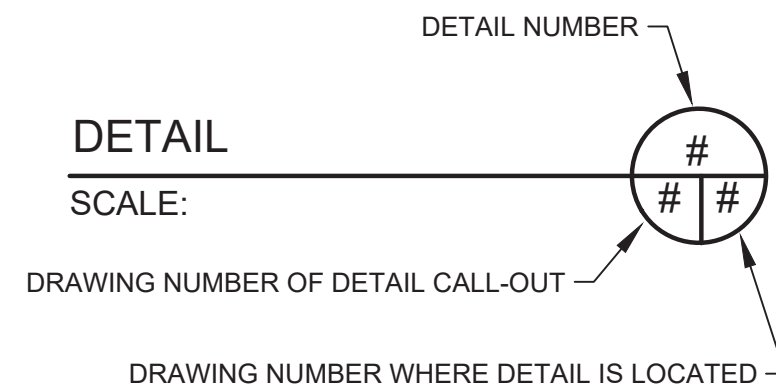
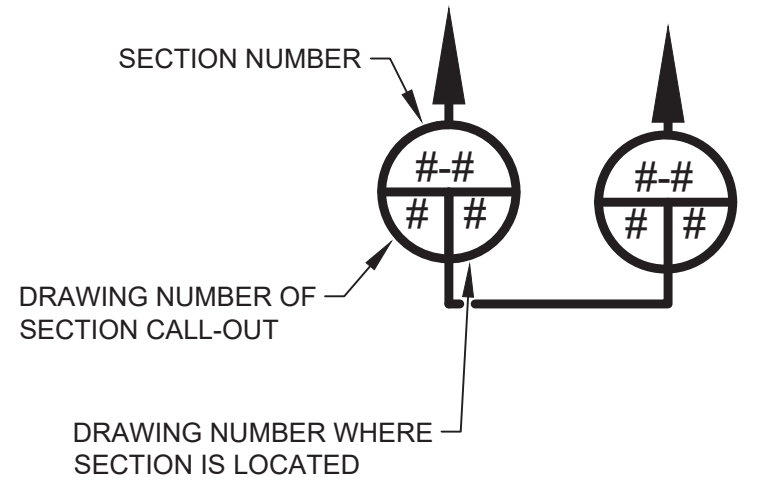
SHEET  
No. 1  
OF  
13 SHEETS



LEGEND

DESCRIPTION	EXISTING	PROPOSED
POWER POLE		
OVERHEAD ELECTRICITY	--- OHE ---	--- OHE ---
OVERHEAD CABLE	--- OHC ---	--- OHC ---
OVERHEAD TELEPHONE	--- OHT ---	--- OHT ---
UNDERGROUND TELEPHONE LINE	--- (UT) ---	--- UT ---
UNDERGROUND ELECTRICAL LINE	--- (UE) ---	--- UE ---
GUY WIRE	--- ( ) ---	--->---
ELECTRICAL VAULT		
SANITARY SEWER PIPELINE	--- (SS) ---	--- SS ---
WATER PIPELINE	--- (SIZE "W") ---	--- SIZE "W" ---
SANITARY SEWER CLEAN OUT		
STORM DRAIN PIPELINE	--- SD ---	--- SD ---
UNDERGROUND GAS PIPELINE	--- G ---	--- G ---
WATER METER		
CATCH BASIN	--- CB ---	--- CB ---
CLEAN OUT BOX	--- COB ---	--- COB ---
BACKFLOW PREVENTOR	--- BF ---	--- BF ---
PIPELINE BLOW-OFF	--- BO ---	--- BO ---
MANHOLE		
A.C. PAVEMENT		
BENCHMARK		
SIGN AND/OR SIGN POST		
TREE / OVERGROWN VEGETATION		
FENCE	---X---X---	---X---X---
UNDERGROUND PIPELINE EXACT LOCATION UNKNOWN	---=---=---	---=---=---
RIGHT OF WAY	--- ROW ---	--- ROW ---
VALVE		
PIEZOMETER		
PROPERTY LINE	--- PL ---	--- PL ---
FIRE HYDRANT		
STREET / PARKING LIGHT		
P.C.C. INFRASTRUCTURE		
BUILDING		
SHADE STRUCTURE		
CONTOUR LINE	--- (4250.00) ---	--- 4250.00 ---
SPOT ELEVATION		
BANK SLOPES		
POLE & ANCHOR		
STRUCTURE		
FLOW DIRECTION	--->---	--->---
EDGE OF PAVEMENT		

SECTION & DETAIL IDENTIFICATION



ABBREVIATIONS

AT	DOUBLE	IN	INCH	REV	REVISION
DIAMETER	DETAIL	INFO	INFORMATION	RJ	RING TYPE JOINT
NUMBER	D.I.	INV.	INVERT	ROW	RIGHT-OF-WAY
PERCENT	DIA	IPS	IRON PIPE SIZE	RP	REFERENCE POINT
AASHTO	DIM	IRR	IRRIGATION	RR	RAILROAD
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DIP	JCT	JUNCTION	RT	RIGHT/ROUTE
	DIST	L	LENGTH	RW	RAW WASTEWATER
	DL/DR	LB	POUND	R/W	RIGHT OF WAY
ABS	DOWN	LG	LONG	S.	SOUTH / SLOPE
ACRYLONITRILE BUTADIENE STYRENE	DWG	LIC	LICENSE	SA	SUPPLY AIR
ABUT	DWV	LIN	LINEAR/LINEAL	SAN	SANITARY
A/C	D/W	LN	LANE	SCH	SCHEDULE
AIR CONDITIONER	Δ	LS	LAND SURVEYOR	SCHED	SCHEDULE
ASPHALT CONCRETE	E	LT	LEFT	SD	STORM DRAIN
ASBESTOS CEMENT PIPE	EA	LWL	LOW WATER LEVEL	SDFM	STORM DRAIN FORCE MAIN
ACRE FEET	EC	MAINT	MAINTENANCE	SDR	STANDARD DIMENSION RATIO
AGGREGATE	ECC	MAX.	MAXIMUM	SEC	SECTION
ALUM	EF	MFR	MANUFACTURER	SHT	SHEET
AOS	EG	MG	MILLION GALLON	SIM	SIMILAR
APCD	EL	MGD	MILLION GALLONS PER DAY	SL	SOLIDS LINE
	ELEC			SM	STATIC MIXER
APP	EMB			SP	SPACING/SPACE
ASPH	ENGR.	MG/L	MILLIGRAMS PER LITER	SPEC	SPECIFICATION
ASTM	ENT	MH	MANHOLE	SQ	SQUARE
	E.P.	MIN.	MINIMUM	SQ FT	SQUARE FEET
AVERAGE	EPDM	MISC.	MISCELLANEOUS	SQ YD	SQUARE YARD
AMERICAN WATER WORKS ASSOCIATION		MJ	MECHANICAL JOINT	SS	SANITARY SEWER
		MKR	MARKER	SSL	SECONDARY SEWAGE LINE
AZ	EQ	ML	MIXED LIQUOR INFLUENT	SST	STAINLESS STEEL
BALANCE	EQUIP	MON	MONUMENT	ST	STREET
BEGINNING OF CURVE	ES	MPH	MILES PER HOUR	STA	STATION
BOUNDARY	EST	N.RIM	NORTH RIM	STD	STANDARD
BEGINNING	EVAP	N	NORTH	STL	STEEL
BACK	EW	N.H.	NATIVE SURFACE	STRUCT	STRUCTURE
BACKFILL	EXC	NO	NUMBER	S/W	SIDEWALK
FLGBLIND FLANGE	EXIST	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
BUILDING	FD			TAN	TANGENT
BLOCK	FDN	NPT	NATIONAL PIPE THREAD	TBD	TO BE DETERMINED
BUREAU OF LAND MANAGEMENT	FE	N.T.S.	NOT TO SCALE	TBM	TEMPORARY BENCHMARK
	FENCOR	O-O	OUTSIDE TO OUTSIDE	T.C.	TOP OF CURB OR TOP OF CONCRETE
BENCHMARK	FF	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
BOD	FG	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
BIOLOGICAL OXYGEN DEMAND	FH	OHE	OVERHEAD ELECTRICAL LINE	TELE	TELEPHONE
	FIN	OHT	OVERHEAD TELEPHONE LINE	TF	TOP OF FOOTING
BTM	FL	ORIG	ORIGINAL	THK	THICK
BETWEEN	FLG	OS&Y	OUTSIDE STEM AND YOKE	TKN	TOTAL KJELDAHL NITROGEN
BUTTERFLY VALVE	FLR	OX	OXIDATION	TMH	TOP OF MANHOLE
BYPASS	F.M.	OZ	OUNCE	TN	TON
CALIFORNIA STORMWATER QUALITY ASSOCIATION	FM	PC	POINT OF CURVATURE	TOE	TOE OF SLOPE
	FPS	P.C.C	PORTLAND CEMENT CONCRETE	TOF	TOP OF FLOODING
CENTER TO CENTER	FRP	P.D.	PLAIN END	TOM	TOP OF MANHOLE
CURB AND GUTTER	F.S.	PERF	PERFORATED	TOP	TOP OF SLOPE/PIPE
CLASS 2 BASE	FS	PI	POINT OF INTERSECTION	TOS	TOP OF SLAB
CALCULATED	FT	PL	PLANT INFLUENT	TOW	TOP OF WALL
CATCH BASIN	FTG	POB	POINT OF BEGINNING	T.C.	TOP OF PAVEMENT
CALIFORNIA BUILDING CODE	FW	POC	POINT ON CURVE	TSS	TOTAL SUSPENDED SOLIDS
	G	P.P.	POWER POLE	TV	TELEVISION
CUBIC CENTIMETER	GAL	PPM	PARTS PER MILLION	TYP.	TYPICAL
COUNTER CLOCKWISE	GALV	PROJ	PROJECT	UE	UNDERGROUND ELECTRICITY
CLARIFIER EFFLUENT	GEN	PROP	PROPERTY	UG	UNDERGROUND
CUBIC FEET PER SECOND	GB	PSF	POUNDS PER SQUARE FOOT	UL	UNDERWRITERS LABORATORIES
C.I.	GM	PSI	POUNDS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
CAST IRON	GND	PT	PRESSURE TRANSMITTER	UT	UNDERGROUND TELEPHONE
CAST IRON PIPE	GPH	P.T.	POINT OF TANGENCY	UV	ULTRA VIOLET
CIRCUMFERENTIAL	GPM	PVC	POLYVINYL CHLORIDE	UW	UTILITY WATER
CONSTRUCTION JOINT	GSP	PW	POTABLE WATER	uWs	MICRO WATT SECONDS
CENTERLINE	GV	P/S	PRESTRESSING	V	VOLTS
CLEAR	GW	QTY	QUANTITY	VC	VERTICAL CURVE
SQUARE CENTIMETERS	H&T	R	RADIUS	VERT	VERTICAL
CEMENT MORTAR COATED	H.B.	RAS	RETURN ACTIVATED SLUDGE	VIC	VICTAULIC
CEMENT MORTAR LINED	HDC	R.C.	REINFORCED CONCRETE	VOL	VOLUME
CORRUGATED METAL PIPE	HDPE	RCP	REINFORCED CONCRETE PIPE	W	WATER
CORRUGATED METAL PIPE-ARCH	HWL	RD	ROAD	WAS	WASTE ACTIVATED SLUDGE
	HORIZ	REF	REFERENCE	WM	WATER METER
CMU	HP	REINF	REINFORCED	WS	WATER SURFACE
CONCRETE MASONRY UNIT	HT	REQD	REQUIRED	W/	WITH
CLEAN OUT BOX	HW			W/O	WITHOUT
COLUMN	HWL			WWF	WOVEN WIRE FABRIC
CONCRETE	HWY			WWTP	WASTEWATER TREATMENT PLANT
CONSTRUCT	HYD			XING	CROSSING
CONTINUOUS/CONTINUED	ICBO			X-SEC	CROSS SECTION
CORNER	I.D.				
CHLORINATED POLYVINYL CHLORIDE	ID				
COURT	IJ				
CENTER					
CUBIC FEET					
CUBIC YARD					
CULVERT					
CLOCKWISE					
DEGREE					

C:\Users\ChristopherGarcia\The Holt Group\744.099 - SHEET 2 - SYMBOLS, LEGEND AND ABBREVIATIONS.dwg 04/29/2025 11:38

No.	REVISION	APPROVED	DATE	DESIGNED BY: JM	DRAWN BY: JM
				SCALE: PER PLAN	CHECKED BY: JM
				BENCH MARK No.	ELEV.:
				BENCHMARK	
UNAUTHORIZED CHANGES AND USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to these plans must be in writing and must be approved by the preparer of these plans.					

PREPARED UNDER THE DIRECT SUPERVISION OF:	
JESUS R. MARMOLEJO, P.E.	80410
04/29/2025	03-31-27
DATE	REG. EXP.



The Holt Group, Inc.


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201 E. HOBSONWAY  
BLYTHE, CA 92225  
PHONE : (760) 922-4658  
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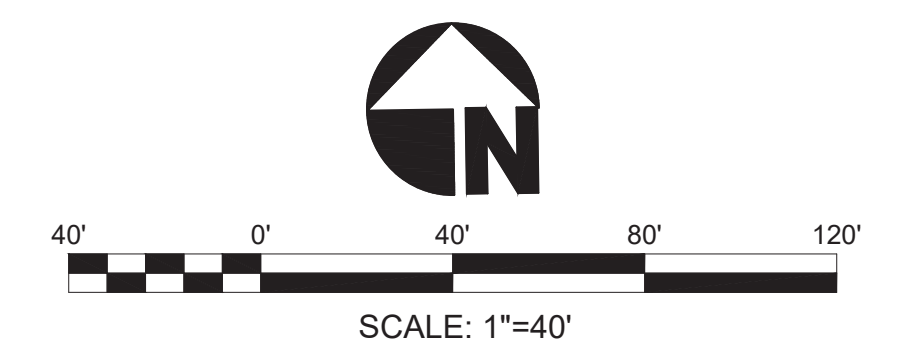
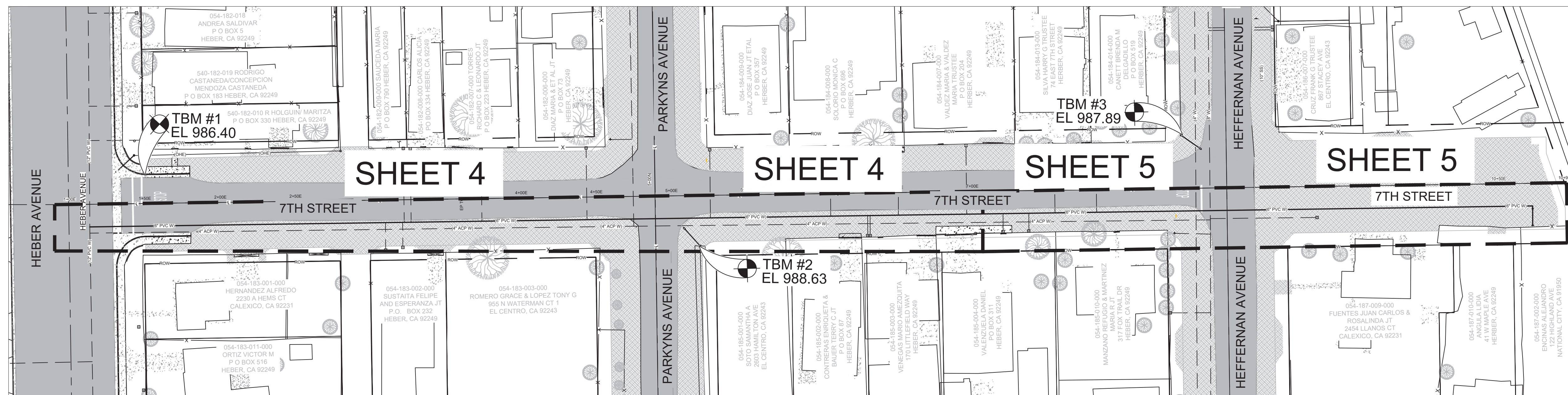


PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	SYMBOLS, LEGEND AND ABBREVIATIONS

**DigSafely**  
DIAL TOLL FREE  
**811**  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



BENCHMARK / TBM 	DESCRIPTION	ELEVATION
PROJECT BENCH MARK	<p>ELEVATIONS ARE REFERENCED TO NAVD83. UTILIZING GEOID12A AND DETERMINED LOCALLY BY GPS TIES TO NATIONAL GEODETIC SURVEY (NGS) BENCHMARK C 16 PID: DB1206. THE BENCHMARK IS A 3" BRASS DISK SET IN THE TOP OF A CONCRETE HEADWALL AND IS STAMPED "C 16 1981 LS 4538".</p> <p><u>PRIMARY VERTICAL CONTROL</u> - NAVD 88 ORTHO HEIGHT = -14.03 FEET + 1000 FEET = 985.97</p>	985.97
TBM 1	MARKED "X" ON THE TOP OF CURB AT THE BEGINING OF CURB OF THE NORTHEAST CORNER OF THE INTERSECTION OF HEBER AVENUE AND 7TH STREET.	986.40
TBM 2	SET NAIL ON THE WEST FACE OF EXISTING POWER POLE NO. 30345 AT THE SOUTHEAST CORNER OF THE INTERSECTION OF 7TH STREET AND PARKYNS AVENUE.	988.63
TBM 3	SET NAIL ON THE EAST FACE OF EXISTING POWER POLE NO. 200377 AT THE NORTHWEST CORNER OF THE INTERSECTION OF 7TH STREET AND HEFFERNAN AVENUE.	987.89

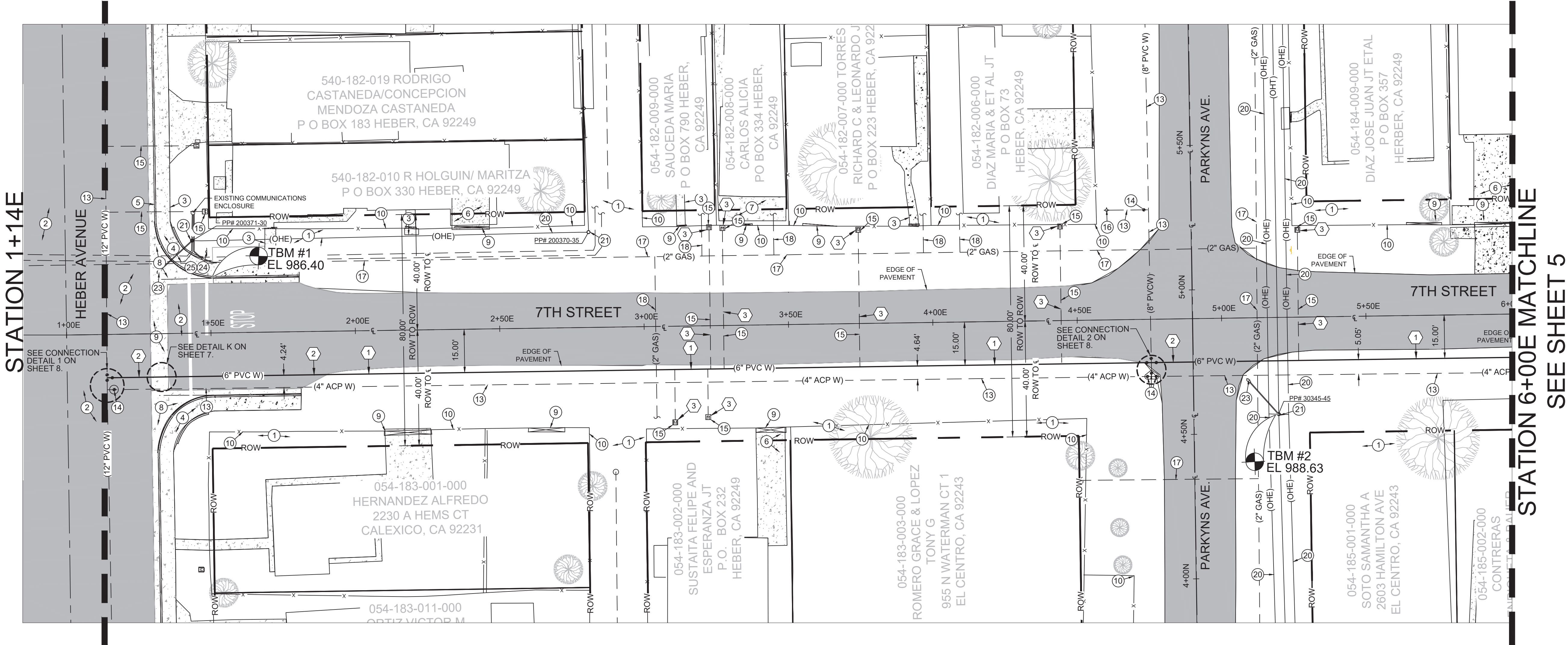


No. REVISION		APPROVED	DATE	DESIGNED BY: JM	DRAWN BY: JM		<h1>The Holt Group, Inc.</h1> <p>ENGINEERING * SURVEYING * CONSTRUCTION MANAGEMENT * PLANNING</p> <div><div>1601 N. IMPERIAL AVENUE EL CENTRO, CA 92243 PHONE: (760) 337-3883 FAX: (760) 337-5997</div><div>201 E. HOBSONWAY BLYTHE, CA 92225 PHONE: (760) 922-4658 FAX: (760) 922-4660</div></div>	<div>PROJECT TITLE : HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT</div> <div>PROJECT NUMBER : 744.099</div> <div>SHEET CONTENT : SHEET INDEX</div>	<div>SHEET NO. <b>3</b></div> <div>OF</div> <div><b>13</b> SHEETS</div>
				SCALE: PER PLAN	CHECKED BY: JM				
				BENCH MARK No.	ELEV.:				
				BENCHMARK					
UNAUTHORIZED CHANGES AND USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to these plans must be in writing and must be approved by the preparer of these plans.				PREPARED UNDER THE DIRECT SUPERVISION OF:  JESUS R. MARMOLEJO, P.E.		80410 R.C.E. No.			
				04/29/2025 DATE	03-31-27 REG. EXP.				



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START OF CONSTRUCTION

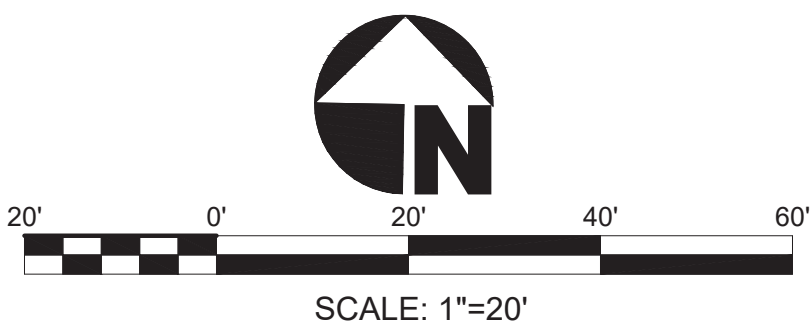


#### EXISTING KEYNOTES

- EXISTING NATIVE MATERIAL TO REMAIN.
- EXISTING A.C. PAVEMENT TO REMAIN.
- EXISTING P.C.C. SIDEWALK TO REMAIN.
- EXISTING P.C.C. HANDICAP RAMP TO REMAIN.
- EXISTING P.C.C. CURB AND GUTTER TO REMAIN.
- EXISTING P.C.C. DRIVEWAY TO REMAIN.
- EXISTING P.C.C. SLAB TO REMAIN.
- EXISTING P.C.C. SPANDREL TO REMAIN.
- EXISTING FENCE GATE TO REMAIN.
- EXISTING FENCE TO REMAIN.
- EXISTING SANITARY SEWER PIPELINE TO REMAIN.
- EXISTING SANITARY SEWER MANHOLE TO REMAIN.
- EXISTING WATER PIPELINE TO REMAIN.
- EXISTING WATER VALVE TO REMAIN.
- EXISTING WATER SERVICE LINE AND METER.
- EXISTING FIRE HYDRANT TO REMAIN.
- EXISTING GAS PIPELINE TO REMAIN.
- EXISTING GAS SERVICE TO REMAIN.
- EXISTING OVERHEAD TELEPHONE LINES.
- EXISTING OVERHEAD ELECTRICAL LINES.
- EXISTING POWER AND/OR TELEPHONE POLE TO REMAIN.
- EXISTING GUY WIRE TO REMAIN.
- EXISTING STREET LIGHT TO REMAIN.
- EXISTING STREET NAME SIGN TO REMAIN.
- EXISTING STOP SIGN TO REMAIN.
- EXISTING UNDERGROUND AT&T COMMUNICATION LINE TO REMAIN.
- EXISTING UNDERGROUND ELECTRICAL LINE TO REMAIN.

#### CONSTRUCTION KEYNOTES

- INSTALL NEW 6-INCH DIAMETER AWWA C 900 DR18 - PRESSURE CLASS 235 PVC WATER PIPELINE IN NATIVE AREAS PER TRENCH DETAIL B ON SHEET 6.
- INSTALL NEW 6-INCH DIAMETER AWWA C-900 DR 18 - PRESSURE CLASS 235 PVC WATER PIPELINE IN PAVED AREAS PER TRENCH DETAIL A ON SHEET 6.
- REPLACE EXISTING WITH NEW 1-INCH WATER SERVICE, METER AND METER ENCLOSURE PER DETAIL F ON SHEET 6.
- INSTALL NEW FIRE HYDRANT ASSEMBLY PER DETAIL G ON SHEET 6.



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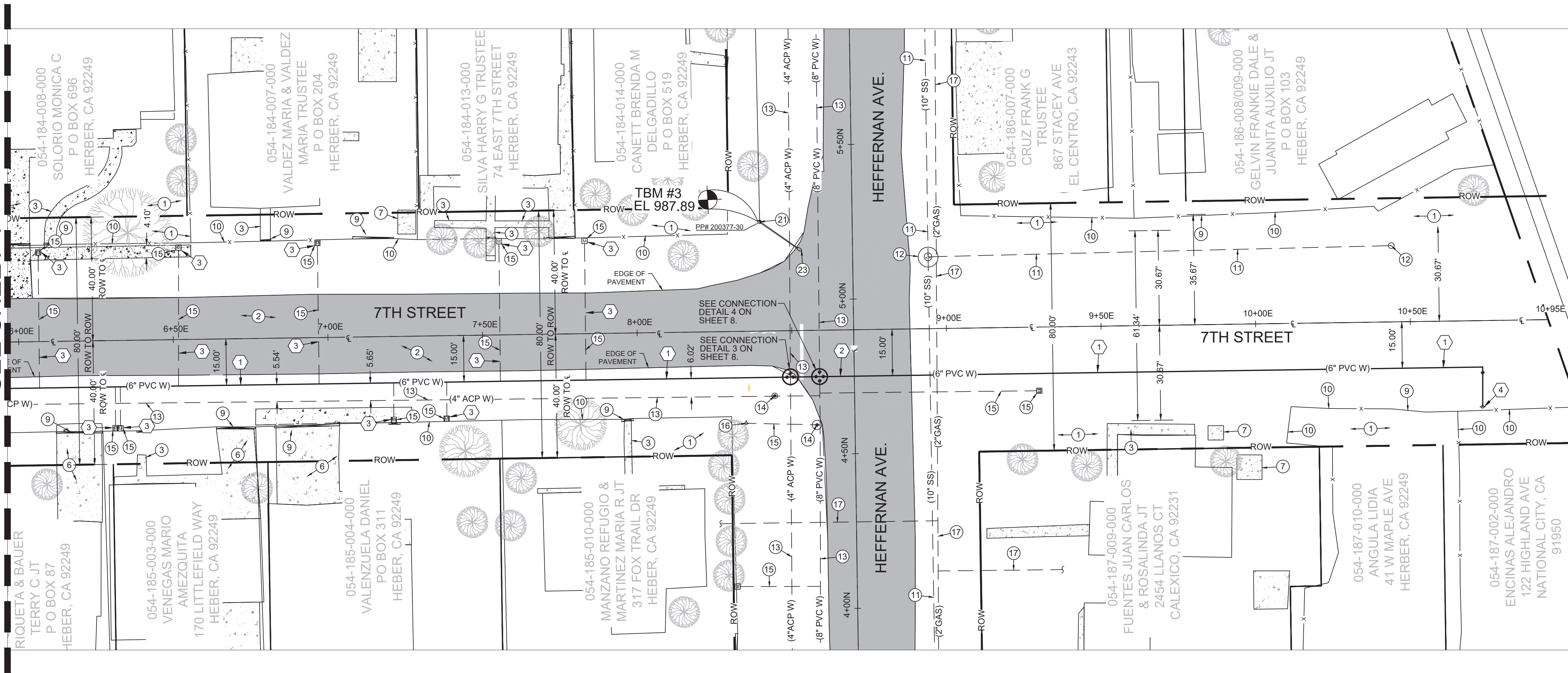
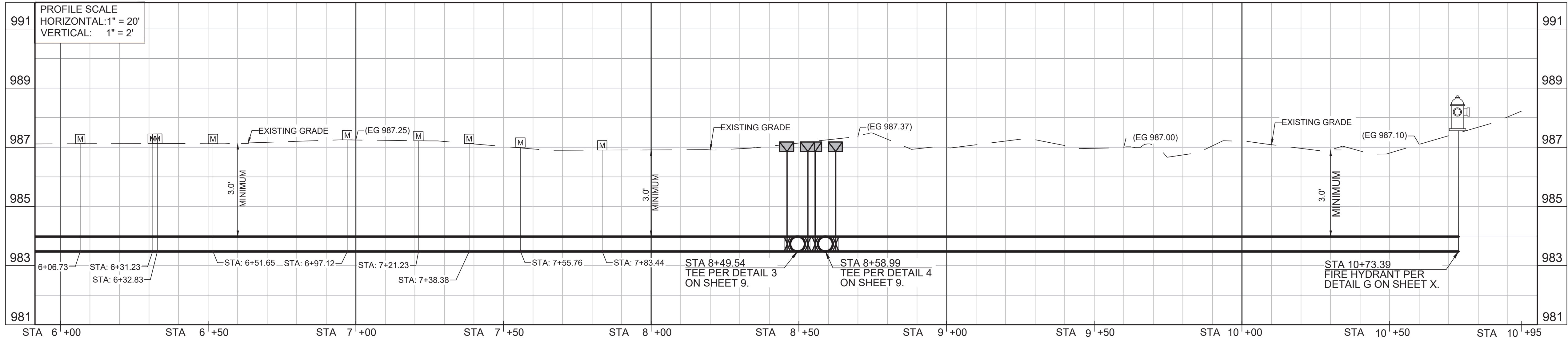
PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	7TH STREET FROM STATION 1+14.05 TO STATION 6+00E

SHEET NO.	4
OF	
13 SHEETS	



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STATION 6+00E MATCHLINE  
SEE SHEET 4

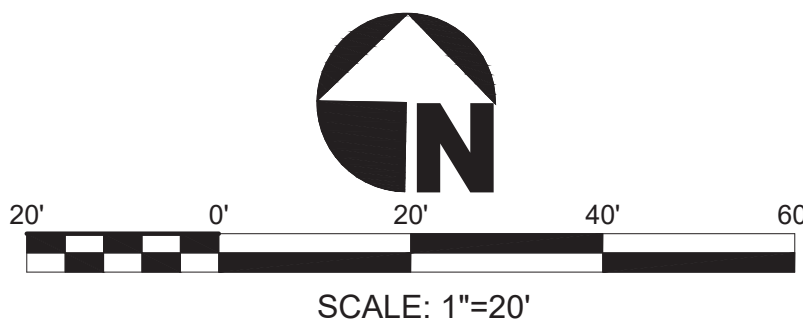


EXISTING KEYNOTES

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04/29/2025  
DATE

80410  
R.C.E. No.

03-31-27  
REG. EXP.



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PROJECT TITLE :

HEBER PUBLIC UTILITY DISTRICT  
7TH STREET WATER PIPELINE PROJECT

PROJECT NUMBER : 744.099

SHEET CONTENT :

7TH STREET FROM STATION 6+00E TO STATION 10+73.39

SHEET NO.

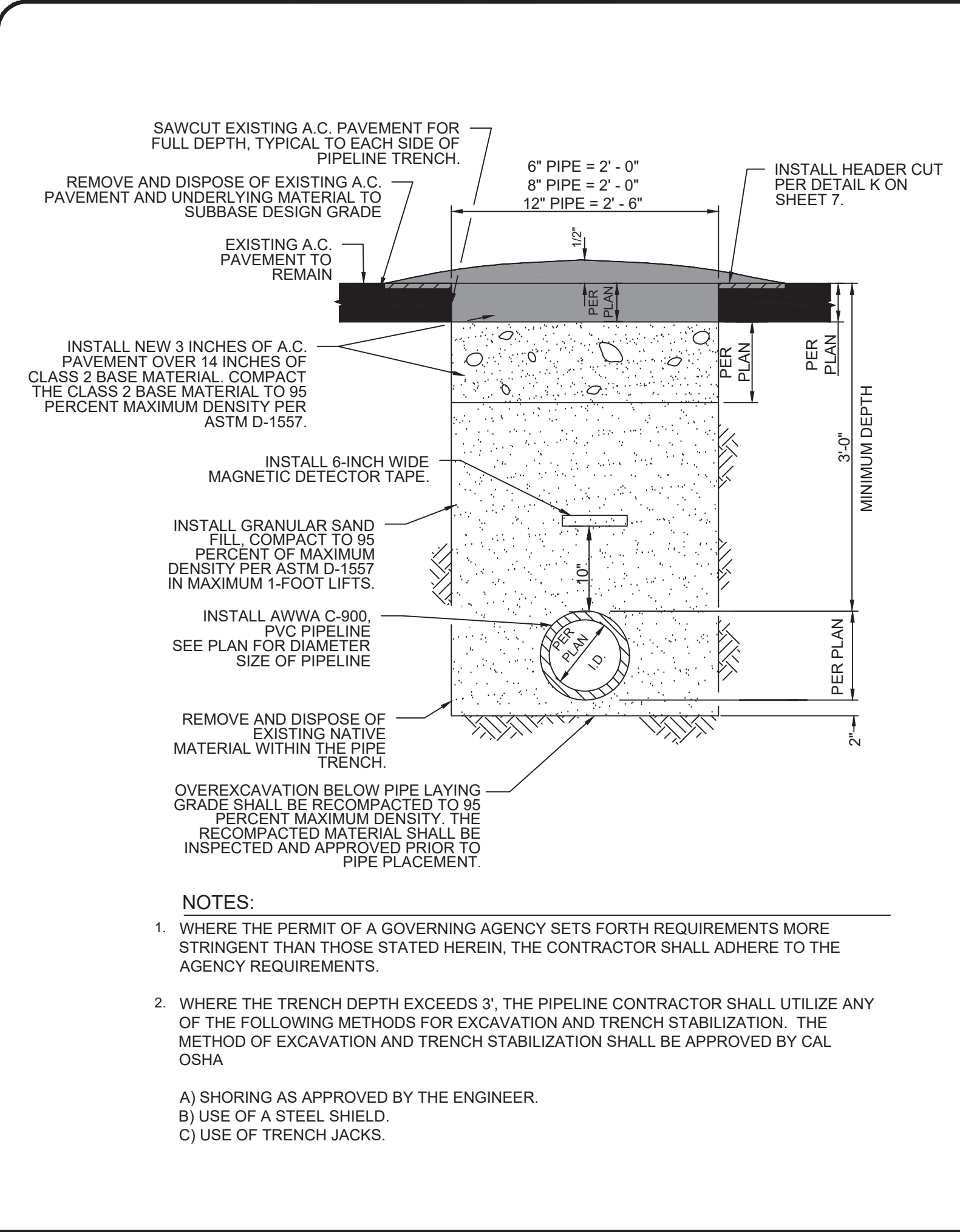
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OF

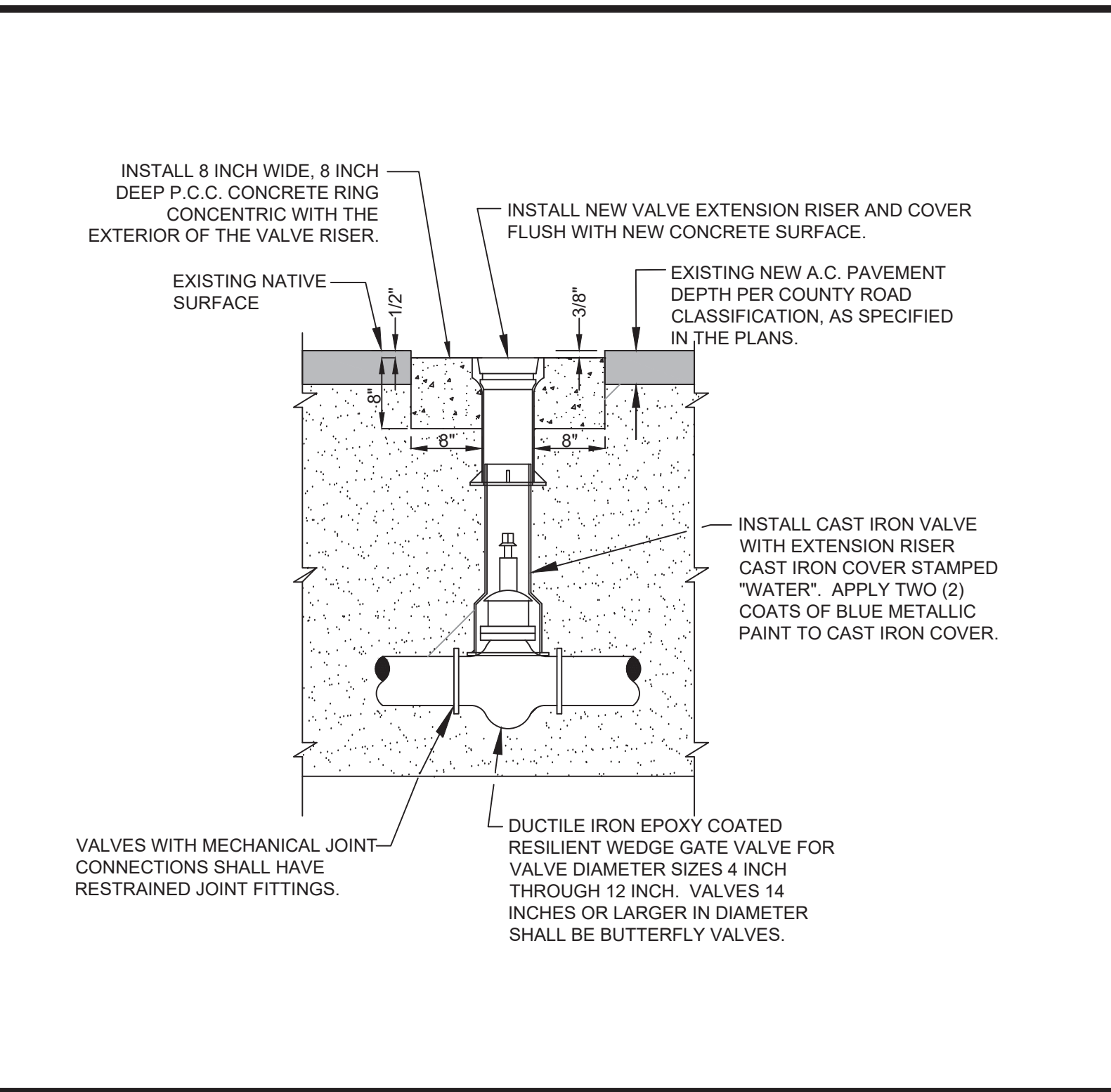
13 SHEETS



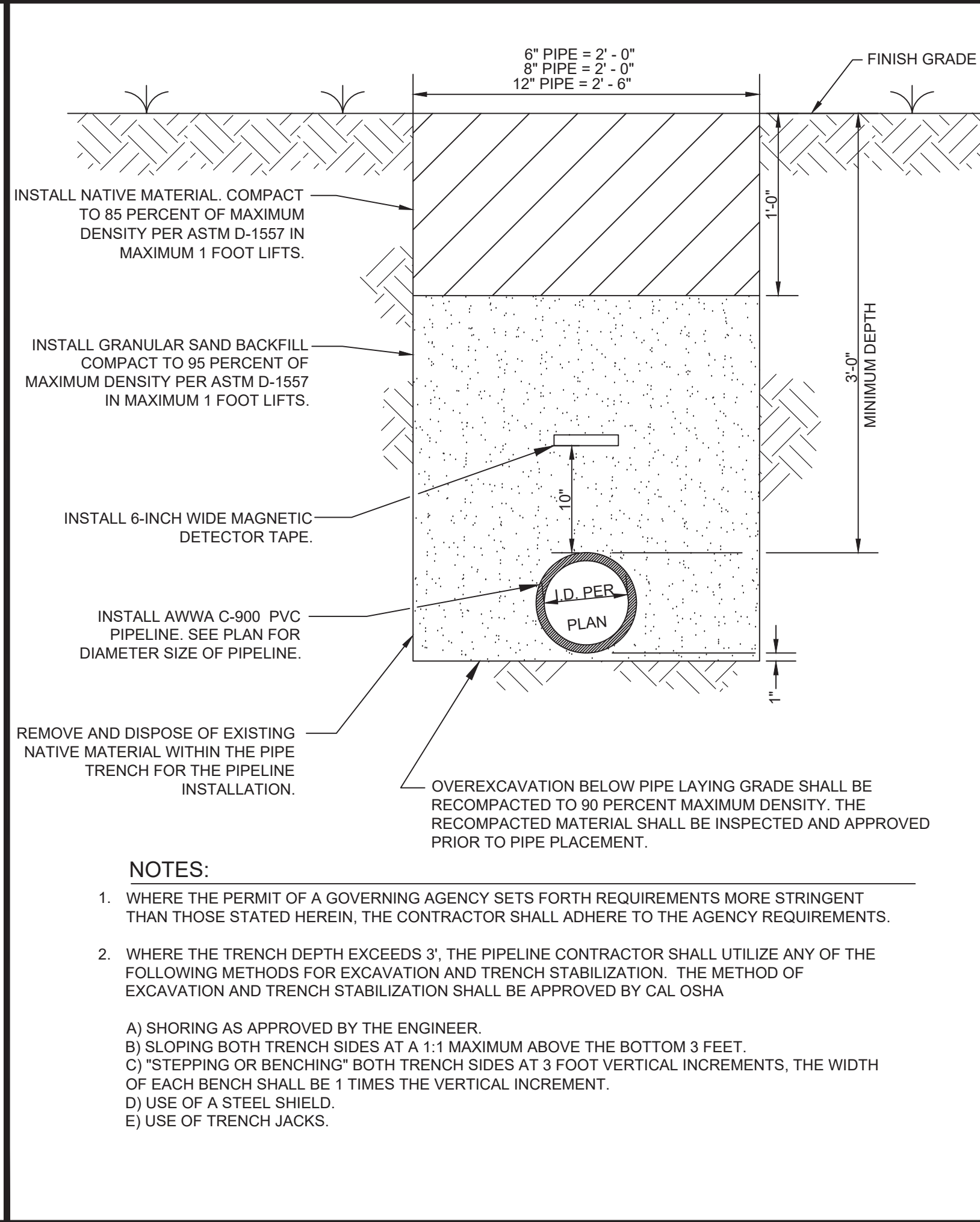
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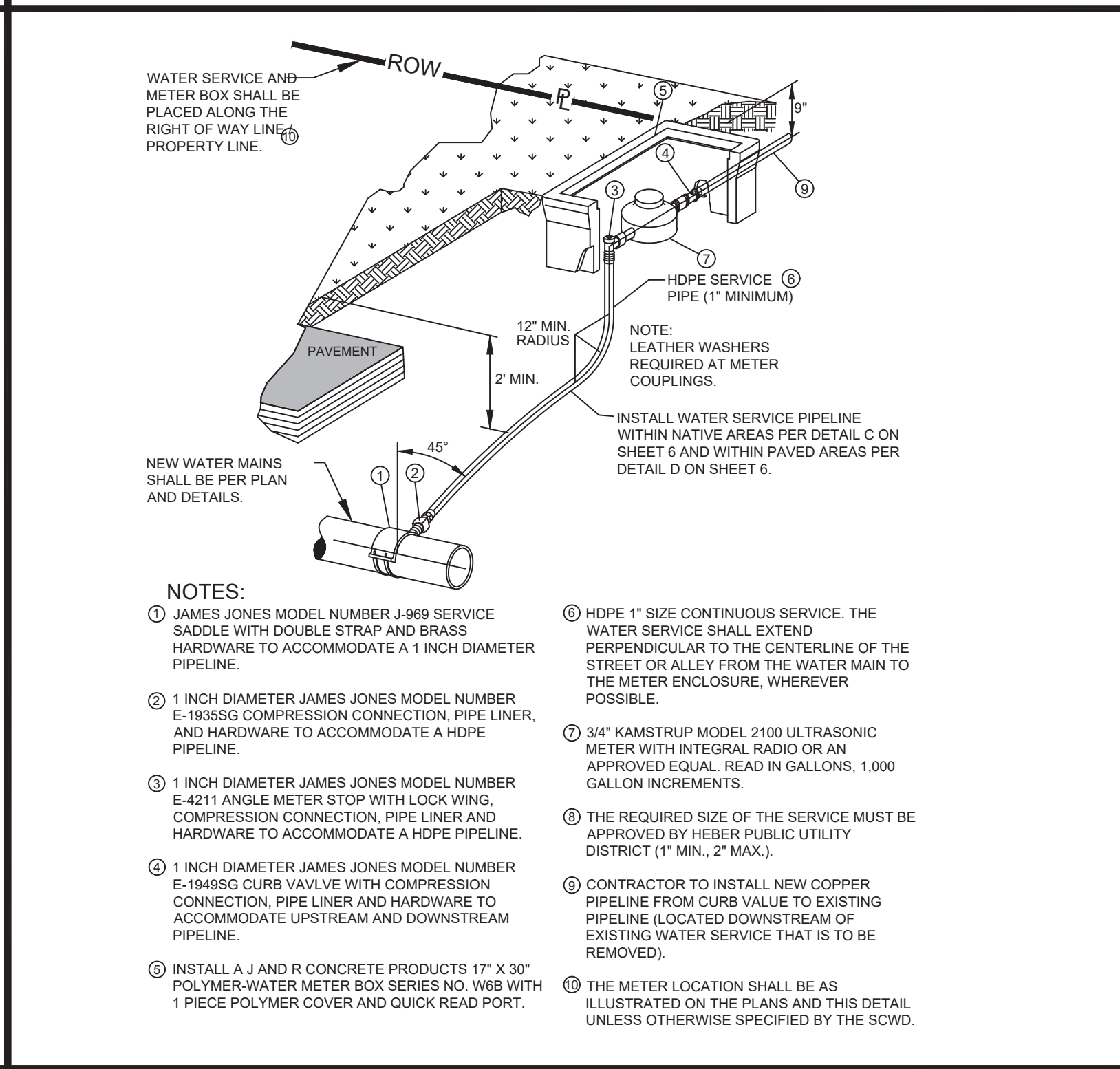
**WATER PIPELINE IN PAVED AREAS TRENCH DETAIL** **A**  
SCALE: NOT TO SCALE 4-5 6



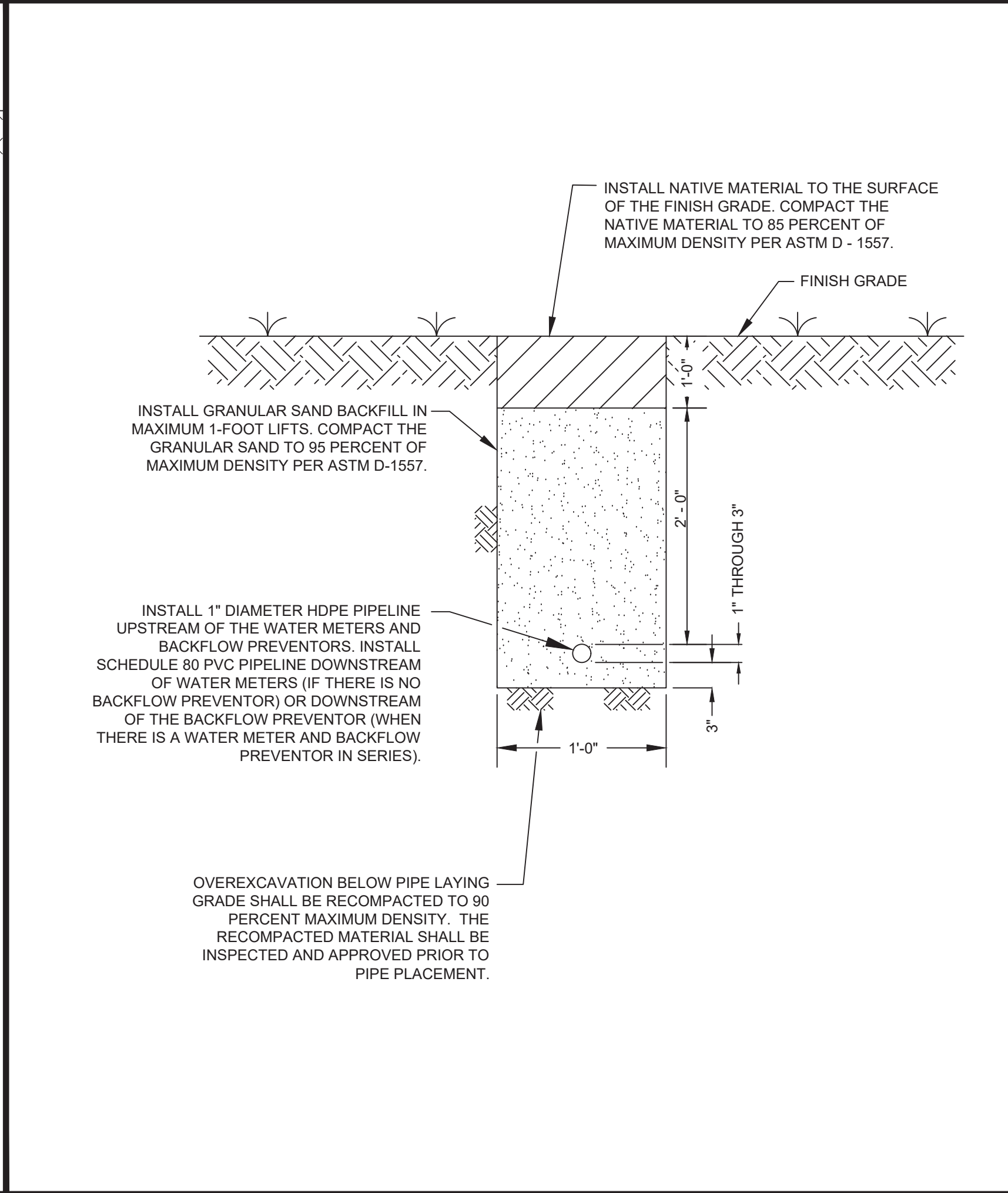
**VALVE RISER DETAIL** **E**  
SCALE: NOT TO SCALE 4-5 6



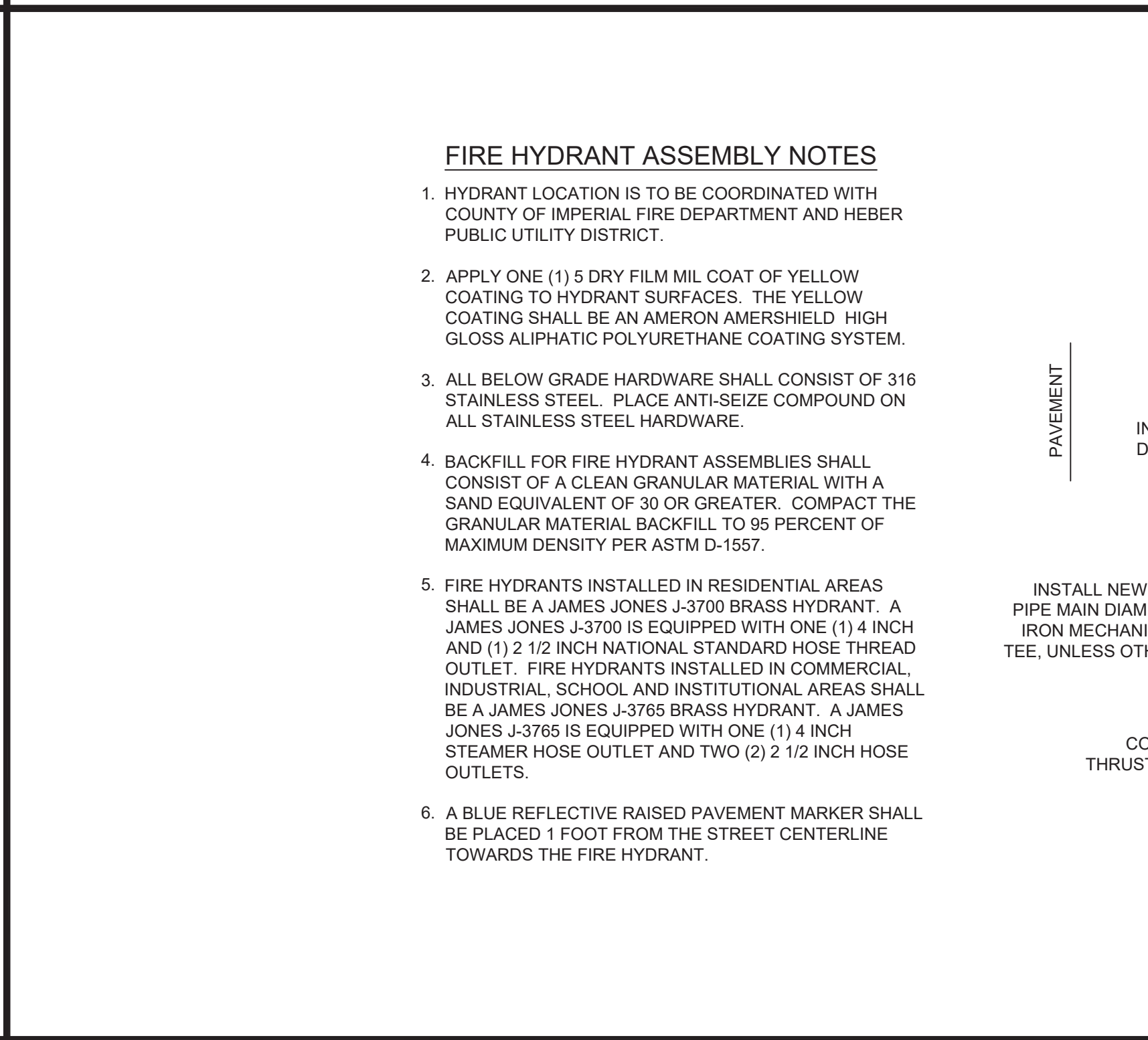
**WATER PIPELINE TRENCH IN NATIVE AREAS DETAIL** **B**  
SCALE: NOT TO SCALE 4-5 6



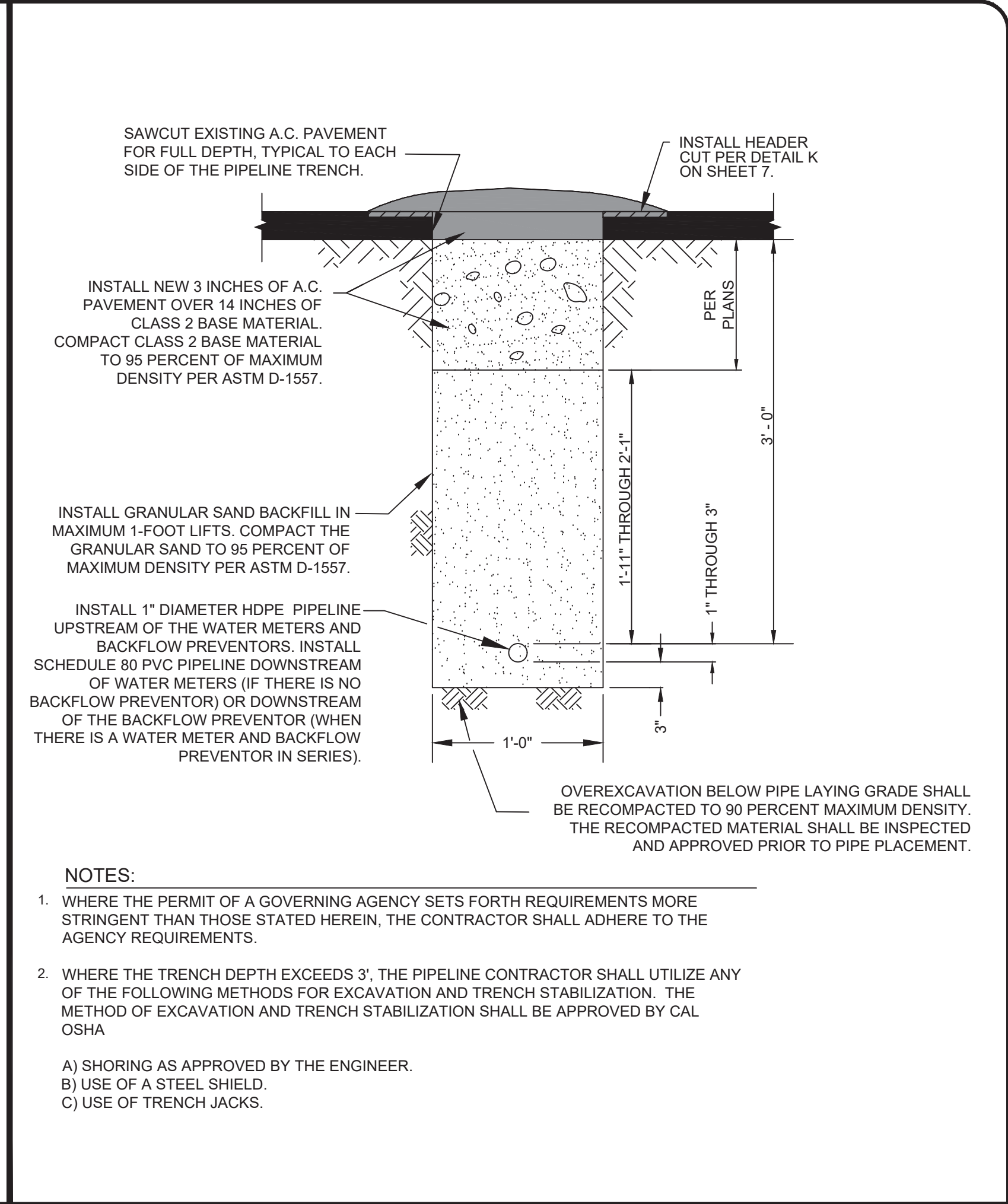
**WATER SERVICE CONNECTION DETAIL** **F**  
SCALE: NOT TO SCALE 4-5 6



**WATER SERVICE PIPELINE TRENCH IN NATIVE AREAS DETAIL** **C**  
SCALE: NOT TO SCALE 4-5 6



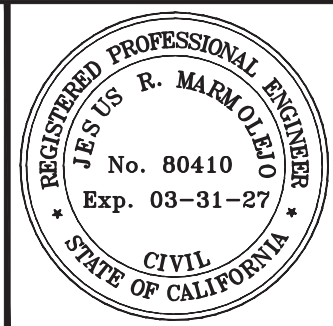
**FIRE HYDRANT ASSEMBLY DETAIL** **G**  
SCALE: NOT TO SCALE 5 6



**WATER SERVICE PIPELINE TRENCH IN PAVED AREAS DETAIL** **D**  
SCALE: NOT TO SCALE 4-5 6

No.	REVISION	APPROVED	DATE	DESIGNED BY: JM	DRAWN BY: JM
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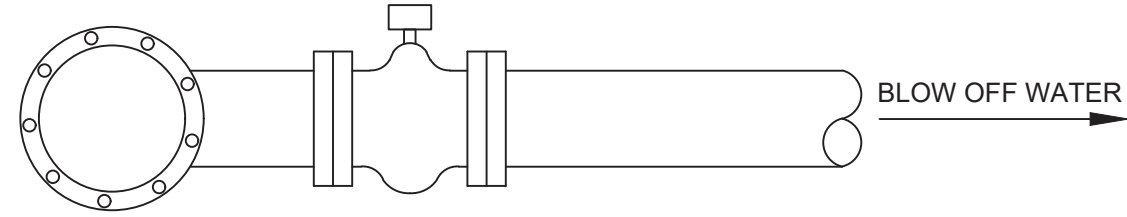
201 E. HOBSONWAY  
BLYTHE, CA 92225  
PHONE : (760) 922-4658  
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PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	PIPELINE DETAILS I

SHEET NO.	6
OF	
13 SHEETS	



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INSTALL 1/2 LINE SIZE PIPING, FITTINGS AND VALVES FROM THE DUCTILE IRON TEE AND RESILIENT WEDGE GATE VALVE TO THE POINT OF DEPOSITION OF THE BLOWOFF WATER. THE CONTRACTOR SHALL DIRECT THE BLOWOFF WATER TO THE CLOSEST SANITARY SEWER MANHOLE.

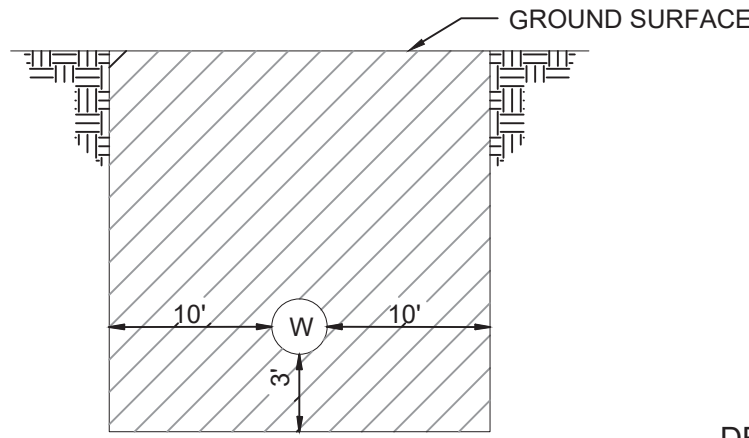
THE CONTRACTOR SHALL PROVIDE AND INSTALL THE REQUIRED LENGTH OF PIPING AND FITTINGS NECESSARY TO COMPLETE THE INTIAL FLUSHING OF THE WATER PIPELINE PRIOR TO HYDROSTATIC TESTING AND BEFORE AND AFTER DISINFECTION OF THE PIPELINE. THE CONTRACTOR SHALL DISASSEMBLE THE PIPING AND FITTINGS BETWEEN THE FLUSHING OF THE PIPELINE. IF THE PIPELINE OBSTRUCTS PEDESTRIAN OR VEHICULAR TRAFFIC OR IF IT IS REQUESTED BY THE ENGINEER OR HEBER PUBLIC UTILITY DISTRICT, IF NECESSARY. THE CONTRACTOR SHALL TEMPORARILY BURY THE PIPELINE TO AVOID VEHICULAR TRAFFIC OR PEDESTRIAN ACCESS CONFLICTS. ANY PAVEMENT, CURB AND GUTTER, SIDEWALK, OR CONCRETE INFRASTRUCTURE REPAIR WORK DUE TO BURING THE PIPELINE SHALL BE ACCOMPLISHED AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE COST OF INSTALLING THE BLOWOFF PIPELINE AND FITTINGS.

THE CONTRACTOR SHALL DE-CHLORINATE THE DISINFECTION WATER AT THE TIME THE CHLORINATED WATER IS FLUSHED FROM THE BLOWOFF WATER PIPING. THE CONTRACTOR SHALL ENGAGE A COMPANY WHICH SPECIALIZES IN DE-CHLORINATING THE WATER. THE BLOWOFF WATER ENTERING HEBER PUBLIC UTILITY DISTRICT'S SANITARY SEWER COLLECTION SYSTEM SHALL BE DE-CHLORINATED WATER IN ACCORDANCE WITH STATE OF CALIFORNIA WATERBOARD REQUIREMENTS.

THE BLOWOFF PIPELINE, FITTINGS AND VALVE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AT THE CONCLUSION OF THE HYDROSTATIC TESTING AND DISINFECTION PROCESS. THE TEMPORARY PIPING, FITTINGS AND VALVE SHALL BE USED FOR THE NEXT PIPELINE SECTION TO BE FLUSHED AND TESTED OR REMOVED FROM THE PROJECT SITE. THE LINE SIZE X LINE SIZE X 1/2 LINE SIZE DUCTILE IRON TEE SHALL REMAIN IN PLACE. A DUCTILE IRON BLIND FLANGE SECURED WITH 316 STAINLESS STEEL BOLTS SHALL BE PLACED OVER THE END OF THE BRANCH OPENING DUCTILE IRON TEE FLANGE.

THE CONTRACTOR SHALL CONDUCT THE FLUSHING IN SUCH A MANNER THAT DAMAGE TO OTHER INFRASTRUCTURE INCLUDING THE STREET, CURB AND GUTTER, SIDEWALKS, LANDSCAPE AREAS, LAWNS, ETC DOES NOT OCCUR. THE CONTRACTOR SHALL INCLUDE CONSTRAINTS OR THRUST BLOCKS AS REQUIRED TO SECURE THE BLOWOFF PIPING AND FITTINGS. IN THE EVENT DAMAGE DOES OCCUR REQUIRED REPAIR WORK WILL BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR.

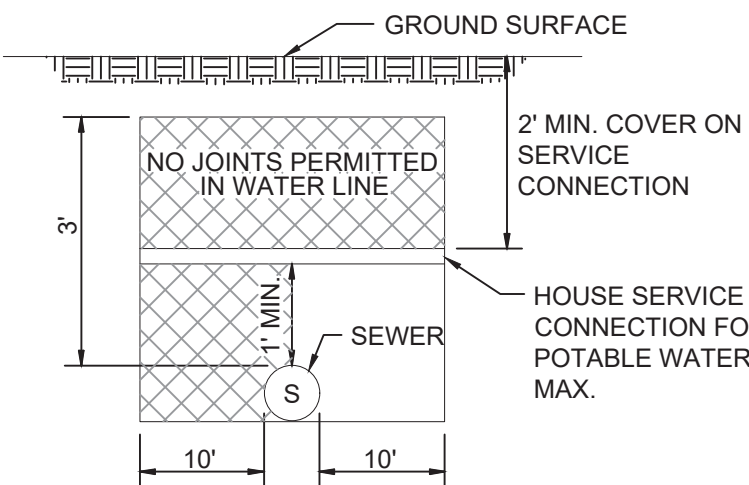
THE CONTRACTOR SHALL INCLUDE THE COSTS OF THE BLOWOFF PIPING AND FITTING INSTALLATION AND DISASSEMBLY, INCLUDING THE COST OF THE DUCTILE IRON TEE AND RESILIENT WEDGE GATE VALVE IN THE HYDROSTATIC PRESSURE TESTING BID ITEM OF THE PROPOSAL FORMS.



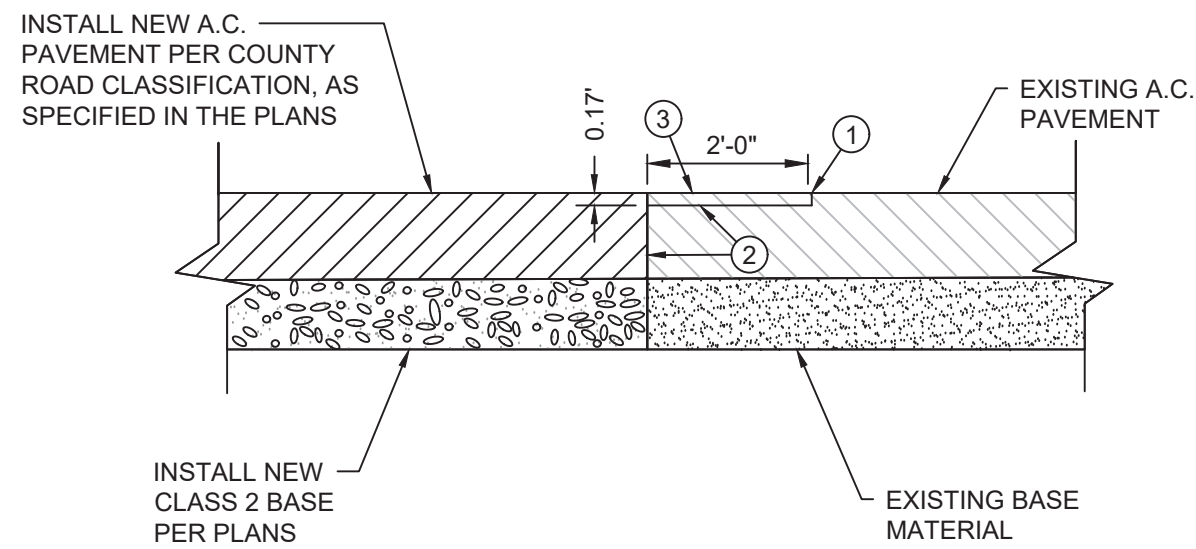
#### DETAIL INDEX

- SEWER PIPELINES NOT ALLOWED IN THIS AREA
- WATER MAINS NOT ALLOWED IN THIS AREA
- W INDICATES PRESSURE WATERMAIN FOR POTABLE WATER
- S INDICATES SANITARY SEWER PIPELINE

NOTE: DIMENSIONS ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.



CROSSING  
HOUSE SERVICE CONNECTION  
FOR POTABLE WATER

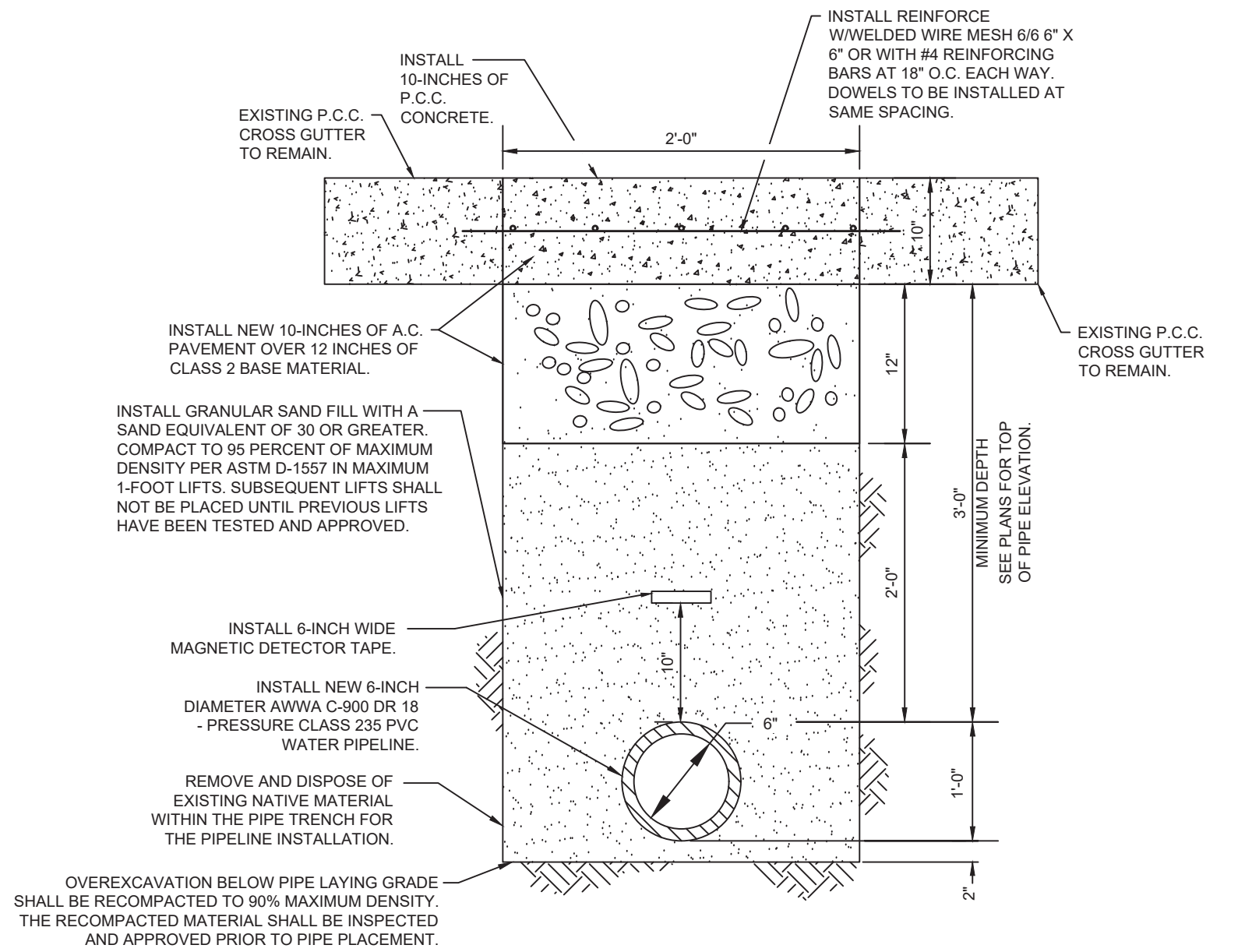


#### CONSTRUCTION KEYNOTES

- COLD PLANE 2-FOOT-WIDE X 0.17-FOOT DEEP AREA FOR THE FULL WIDTH OF THE A.C. PAVEMENT.
- TACK COAT THE SAWCUT A.C. PAVEMENT EDGE AND COLD PLANED AREA WITH A GRADE SS-1H EMULSIFIED ASPHALT AT AN APPROXIMATE RATE OF 0.05 TO 0.10 GALLON PER SQUARE YARD. THE SS-1H EMULSIFIED ASPHALT SHALL BE UNIFORMLY APPLIED PRECEDING THE PLACEMENT OF THE NEW ASPHALT CONCRETE. THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL OR DUST WHEN THE TACK COAT IS APPLIED.
- NEW A.C. OVERLAY HEADER AREA TO MATCH EXISTING A.C. PAVEMENT SURFACES.

#### NOTE:

- WHERE PAVEMENT IS INSTALLED ON A PROJECT ON MORE THAN ONE DAY, A HEADER (AS HERE IN DESCRIBED) MUST BE PROVIDED AT THE CONSTRUCTION JOINT.



#### NOTES:

- TRENCH DEPTH PER PLAN.
- WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
- WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE SUBCONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA.
  - A) SHORING AS APPROVED BY THE ENGINEER.
  - B) USE OF A STEEL SHIELD.
  - C) USE OF TRENCH JACKS.

#### TEMPORARY BLOWOFF ASSEMBLY DETAIL

SCALE: NOT TO SCALE

H  
4-5 7

#### SEWER/WATER CROSSING SEPARATION DETAIL

SCALE: NOT TO SCALE

I  
4-5 7

#### PIPE TRENCH HEADER CUT DETAIL

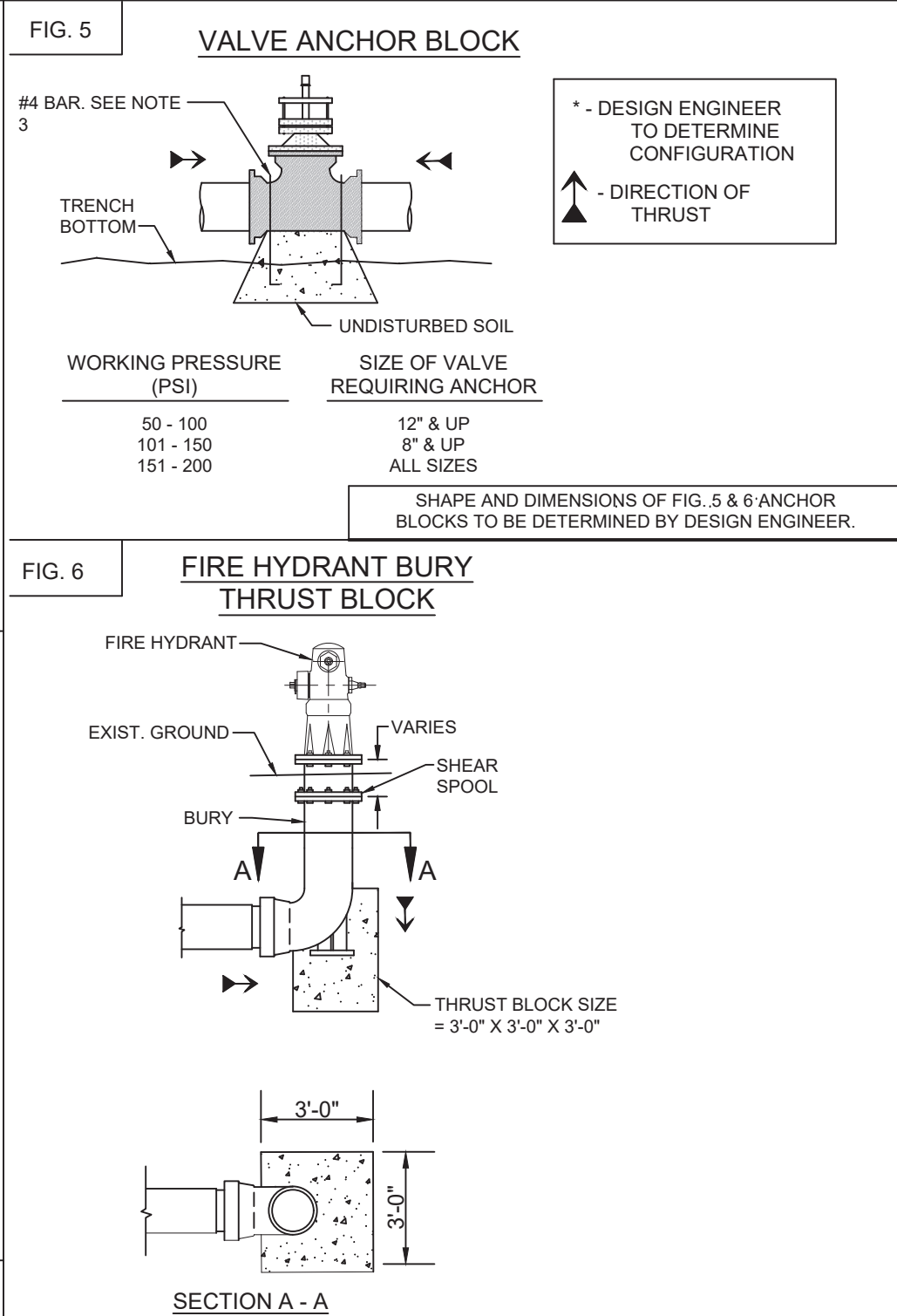
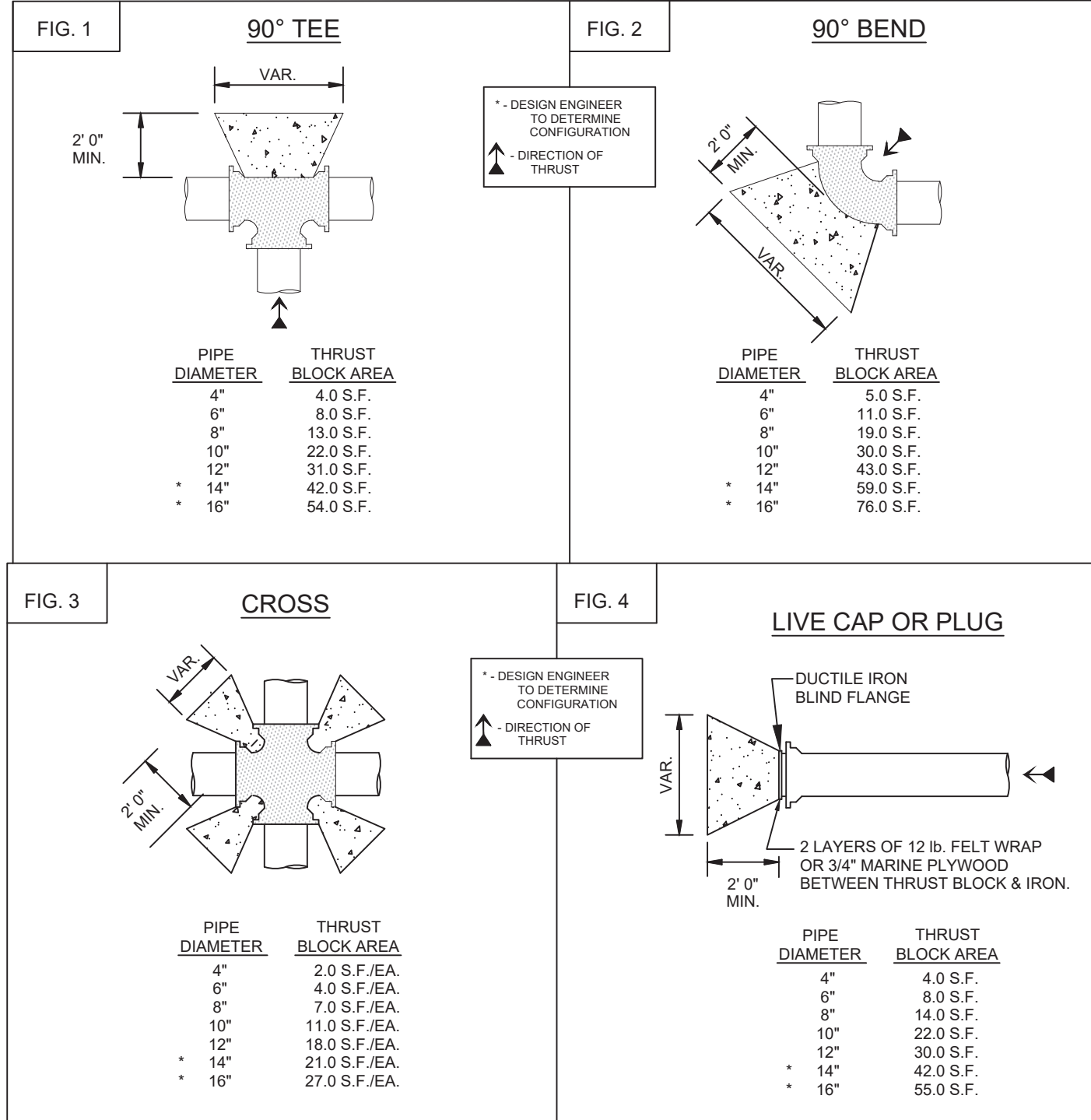
SCALE: NOT TO SCALE

J  
4-5 7

#### WATER PIPELINE IN CROSS GUTTER AREA DETAIL

SCALE: NOT TO SCALE

K  
4 7



#### THRUST BLOCK NOTES:

- BEARING AREAS MAY BE INCREASED AT THE OPTION OF THE RESIDENT ENGINEER IF SOIL BEARING PRESSURE IS LESS THAN 1,000 PSF.
- APPROVED COMPACTED BACKFILL MAY BE REQUIRED BY THE RESIDENT ENGINEER TO IMPROVE THRUST BLOCK BEARING AREA.
- ANY METAL COMPONENT WHICH IS NOT STAINLESS STEEL OR BRONZE SHALL BE WRAPPED WITH A 10 MIL. POLYETHYLENE PLASTIC SHEETING MATERIAL BEFORE CONCRETE PLACEMENT OR BURIAL.
- UNLESS OTHERWISE NOTED, THRUST BLOCK BEARING FORCES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED BACKFILL.
- AFTER THE TRENCH HAS BEEN BACKFILLED TO THE TOP OF THE PIPE, AREAS TO BE OCCUPIED BY THRUST BLOCKS SHALL BE RE-EXCAVATED AND SHAPED. AFTER SHAPING, SIMPLE PLYWOOD OR BOX WOOD FORMS SHALL BE INSERTED ADJACENT TO THE VERTICAL. NON-PRESSURE BEARING SIDES OF THE MOLD. SCWD INSPECTION OF THE MOLD FORM MUST BE OBTAINED PRIOR TO CASTING THE CONCRETE THRUST BLOCK.
- THE CONCRETE THRUST BLOCK IS TO BE CAST IN SUCH A MANNER AS TO CRADLE THE FITTING. CONCRETE ENCASEMENT SHALL BE PERPENDICULAR TO THE LINE OF THRUST. CONCRETE SHALL NOT CONTACT THE PIPE.
- ALL FITTING HARDWARE SHALL REMAIN EXPOSED AFTER THE CONCRETE THRUST BLOCK PLACEMENT TO ALLOW FREE ACCESS FOR REMOVAL AND REPLACEMENT OF THE HARDWARE AS REQUIRED.
- CONCRETE SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,000 PSI AFTER 28 DAYS CURING.

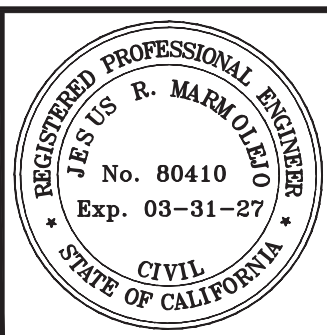
#### CONCRETE THRUST BLOCKS DETAIL

SCALE: NOT TO SCALE

L  
4-5 7

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PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	PIPELINE DETAILS II

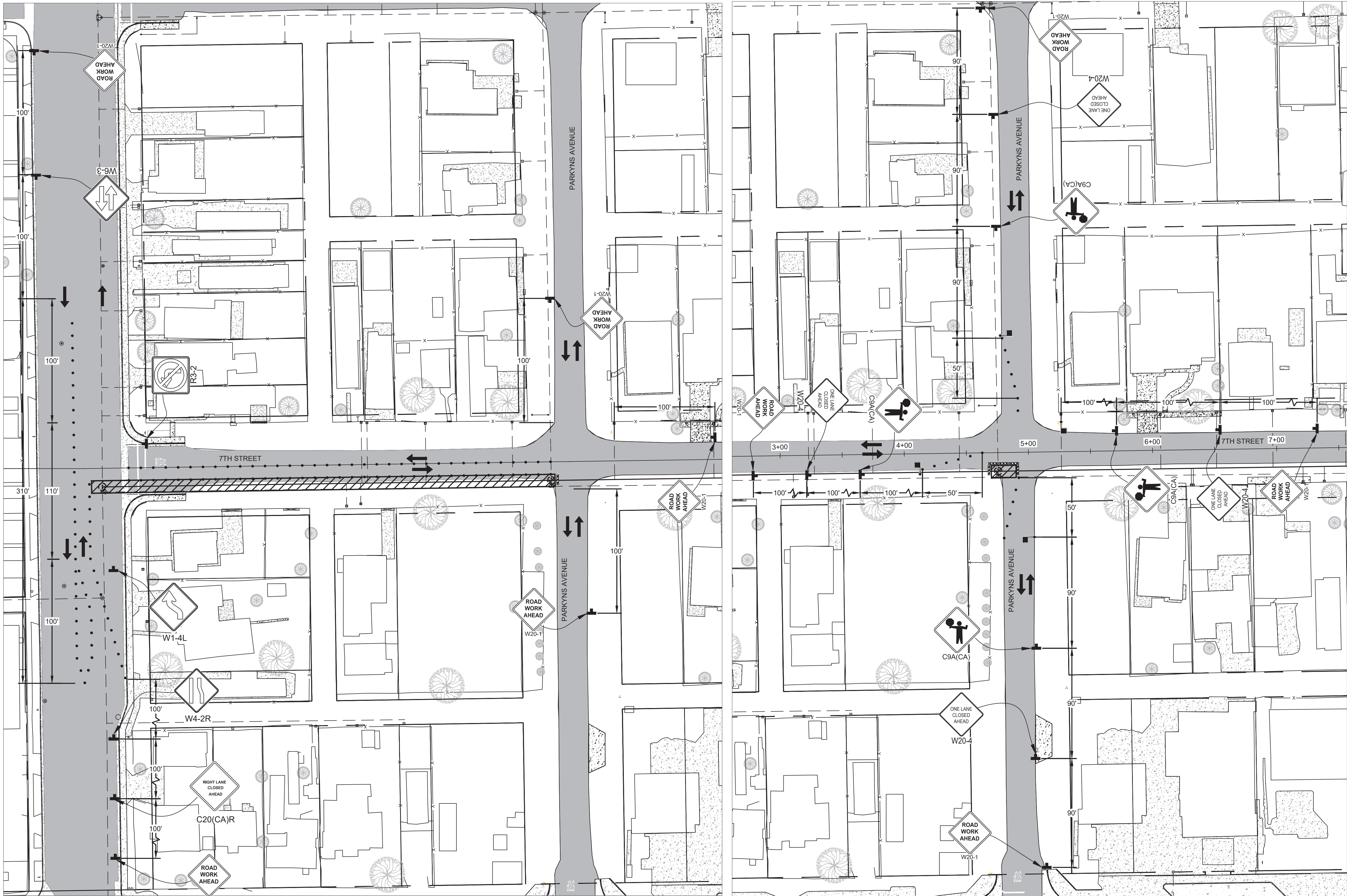
SHEET NO.	7
OF	13
SHEETS	







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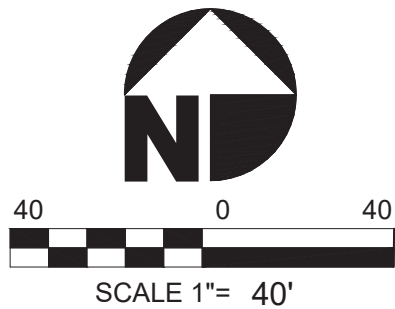


PHASE 1

PHASE 2

TRAFFIC CONTROL LEGEND

ITEM NO.	ITEM DESCRIPTION	ITEM	ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE		5.	WARNING LIGHT	
2.	DIRECTION OF TRAFFIC		6.	WORK AREA	
3.	TYPE III BARRICADE		7.	FLAGGER	
4.	WARNING/REGULATORY SIGN				



GENERAL TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL DEVICES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MUTCD CALIFORNIA SUPPLEMENT.
- TRAFFIC CONTROL SHOWN HEREIN IS THE MINIMUM REQUIRED. ADDITIONAL TRAFFIC CONTROL MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY A HEBER PUBLIC UTILITY DISTRICT REPRESENTATIVE OR THE ENGINEER. THESE CHANGES MAY BE DONE IN THE FIELD.
- TRAFFIC CONTROL DEVICES SHOWN ON PLANS ARE LOCATED APPROXIMATELY AND SHALL BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITIONS. ALL SUCH CHANGES MADE DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF MUTCD, MUTCD CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS.
- THROUGHOUT EACH WORK PERIOD, CONTRACTOR SHALL INSPECT TEMPORARY TRAFFIC CONTROL (SIGNS, BARRICADES AND DELINEATORS) AND MAINTAIN SAME IN ACCORDANCE WITH TRAFFIC CONTROL PLANS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 10-FOOT TRAFFIC LANE WIDTH AT ALL TIMES. THERE SHALL BE A MINIMUM 2-FOOT BUFFER BETWEEN THE EDGE OF CUT AND THE NEAREST TRAFFIC LANE.
- ACCESS TO PRIVATE PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
- ALL SIGNS SHALL BE HIGH INTENSITY REFLECTIVE. ALL TRAFFIC CONTROL SLOPE SHALL BE EFFECTIVE. FLASHING LIGHTS ARE REQUIRED ON ALL SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES FOR NIGHT TIME.
- THE INTENSITY AND DISTRIBUTION OF LIGHT FROM EACH ILLUMINATED SIGNAL LENS SHOULD CONFORM TO THE CURRENT "STANDARD FOR VEHICLE TRAFFIC CONTROL SIGNAL HEADS" AND "TRAFFIC SIGNAL LAMPS" (SEE SECTION 1A.11 OF LATEST VERSION OF CAMUTCD). IF A SIGNAL INDICATION IS OPERATED IN THE FLASHING MODE FOR NIGHTTIME OPERATION AND THE SIGNAL INDICATION IS SO BRIGHT AS TO CAUSE EXCESSIVE GLARE, SOME FORM OF AUTOMATIC DIMMING SHOULD BE USED TO REDUCE THE BRILLIANCE OF THE SIGNAL INDICATION.
- REFER TO THE LATEST REVISION OF CALIFORNIA MUTCD REGARDING THE NOTES FOR EACH TYPICAL APPLICATION CALLED OUT ON THIS PLAN.
- CONTRACTOR SHALL INSPECT TRAFFIC CONTROL AT THE BEGINNING AND AT THE END OF EACH WORKING DAY TO ENSURE COMPLIANCE WITH THESE PLANS AND CALTRANS STANDARDS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES NOT APPLICABLE FOR NIGHT TIME TEMPORARY TRAFFIC CONTROL SHALL BE REMOVED AND STORED AT A SAFE LOCATION. NO SUCH DEVICE SHALL BE LEFT IN PLACE WITHOUT PRIOR APPROVAL BY A HEBER PUBLIC UTILITY DISTRICT REPRESENTATIVE OR THE ENGINEER.
- CONTRACTOR SHALL INSTALL ADA COMPLIANT TEMPORARY RAMPS BETWEEN THE EDGE OF THE EXISTING CURB RETURN/ HANDICAP RAMP AND EXCAVATED SURFACE AT THE END OF EACH WORK DAY.
- ARROWS AND STRIPING IN CONSTRUCTION ZONE SHALL BE COVERED WITH TEMPORARY STRIPING BLACKOUT TAPE. IF NECESSARY OR IF LONG TERM SHOULDER AND/OR LANE CLOSURE TRAFFIC CONTROL IS ALLOWED, THE TAPE SHALL BE REMOVED AT THE END OF THE WORK.
- CONTRACTOR SHALL INSTALL CLASS 2 BASE UP TO FINISHED GRADE ELEVATION AFTER SAWCUT AND REMOVAL OF EXISTING A.C. BARRIER CURB / A.C. PAVEMENT SECTION / P.C.C. SIDEWALK / DRIVEWAY. PRIOR TO OPENING THE LANE TO TRAFFIC, CONTRACTOR SHALL PLACE CLASS 2 BASE FROM THE EXISTING EDGE OF PAVEMENT TO THE EDGE OF THE SAWCUT AREA AT A SLOPE NO STEEPER THAN 6:1.
- NO STREET PARKING SHALL BE ALLOWED ALONG THE SOUTH ROAD EDGE OF SEVENTH STREET WITHIN THE CONSTRUCTION ZONE. CONTRACTOR SHALL INSTALL NO PARKING SIGNS (R8-3A) AT ALL REQUIRED AREAS AT LEAST ONE WEEK PRIOR TO BEGINNING OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ACCORDING TO TYPICAL APPLICATION CAMUTCD 2014, FIGURE 6H-29 (7A-29). CROSSWALK CLOSURES AND PEDESTRIAN DETOURS AS ILLUSTRATED ON THE TRAFFIC CONTROL PLANS TO PROVIDE TEMPORARY PEDESTRIAN ACCESS AT ALL INTERSECTIONS AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE FLAG PERSONNEL FOR ADDITIONAL TRAFFIC CONTROL AS NEEDED DURING SCHOOL PEAK TRAFFIC HOURS.
- IF CONSTRUCTION OF THE PROJECT OCCURS DURING SCHOOL YEAR, CONTRACTOR SHALL COORDINATE WITH THE HEBER ELEMENTARY SCHOOL DISTRICT ANY ADDITIONAL TEMPORARY TRAFFIC CONTROL THAT MAY BE REQUIRED FOR SCHOOL BOUND PEDESTRIAN AND VEHICULAR TRAFFIC.
- CONTRACTOR SHALL APPLY TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST VERSION OF MUTCD, MUTCD CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS FOR THE INSTALLATION OF TEMPORARY STRIPING.
- ANY EXCAVATION ADJACENT TO TRAVELWAY SHALL NOT BE OPEN OVERNIGHT; IT SHALL HAVE A 6:1 SLOPE AT THE END OF THE WORKDAY OR BE PROTECTED BY K-RAIL.
- ALL ADJACENT BUSINESSES, RESIDENTIAL, SCHOOL AND CHURCHES SHALL BE DULY NOTIFIED BY THE CONTRACTOR, IN WRITING, OF HIS/HER PROPOSED OPERATIONS. NOTICE SHALL BE DELIVERED AT LEAST TWO (2) WORKING WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPRODUCTION OF NOTIFICATION LETTERS. THE NOTIFICATION LETTERS SHALL BE WRITTEN IN ENGLISH AND SPANISH LANGUAGES. RE-NOTIFICATION WILL BE REQUIRED IF THE CONTRACTOR'S SCHEDULE IS ALTERED OR OTHER DELAYS OCCUR WHICH AFFECT THE PROJECT SCHEDULE.
- CONTRACTOR SHALL COVER EXISTING TRAFFIC SIGNS, TRAFFIC SIGNALS, OR PEDESTRIAN SIGNAL INDICATIONS SHOULD SAID CONTROLS CONFLICT WITH TEMPORARY TRAFFIC CONTROL PLAN OR AS DIRECTED BY A HEBER PUBLIC UTILITY DISTRICT REPRESENTATIVE.
- ALL CONFLICTING LINES, ARROWS, MARKINGS, OR CURB PAINT SHALL BE REMOVED BY HYDRO BLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO THE REMOVAL OF MARKINGS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER.
- WHENEVER THE WORK CAUSES OBLITERATION OF PAVEMENT DELINEATION, TEMPORARY OR PERMANENT PAVEMENT DELINEATION SHALL BE IN PLACE PRIOR TO OPENING THE TRAVELED WAY TO PUBLIC TRAFFIC. LANE LINES AND CENTERLINE PAVEMENT DELINEATION SHALL BE PROVIDED AT ALL TIMES FOR TRAVELED WAYS OPEN TO THE PUBLIC TRAFFIC.
- CONTRACTOR SHALL REPLACE/REPAIR ANY AND ALL STRIPING, PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS, AND CURB PAINT DISRUPTED OR REMOVED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.
- BARRICADES SHALL NOT PROTRUDE INTO THE TRAVELWAY.
- TYPE III BARRICADES SHALL OCCUPY THE FULL WIDTH OF THE ROADWAY.

No.	REVISION	APPROVED	DATE	DESIGNED BY: JM	DRAWN BY: JM
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				BENCHMARK	
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PREPARED UNDER THE DIRECT SUPERVISION OF:			
JESUS R. MARMOLEJO, P.E.		80410	
04/29/2025		R.C.E. No.	
DATE		03-31-27	
		REG. EXP.	



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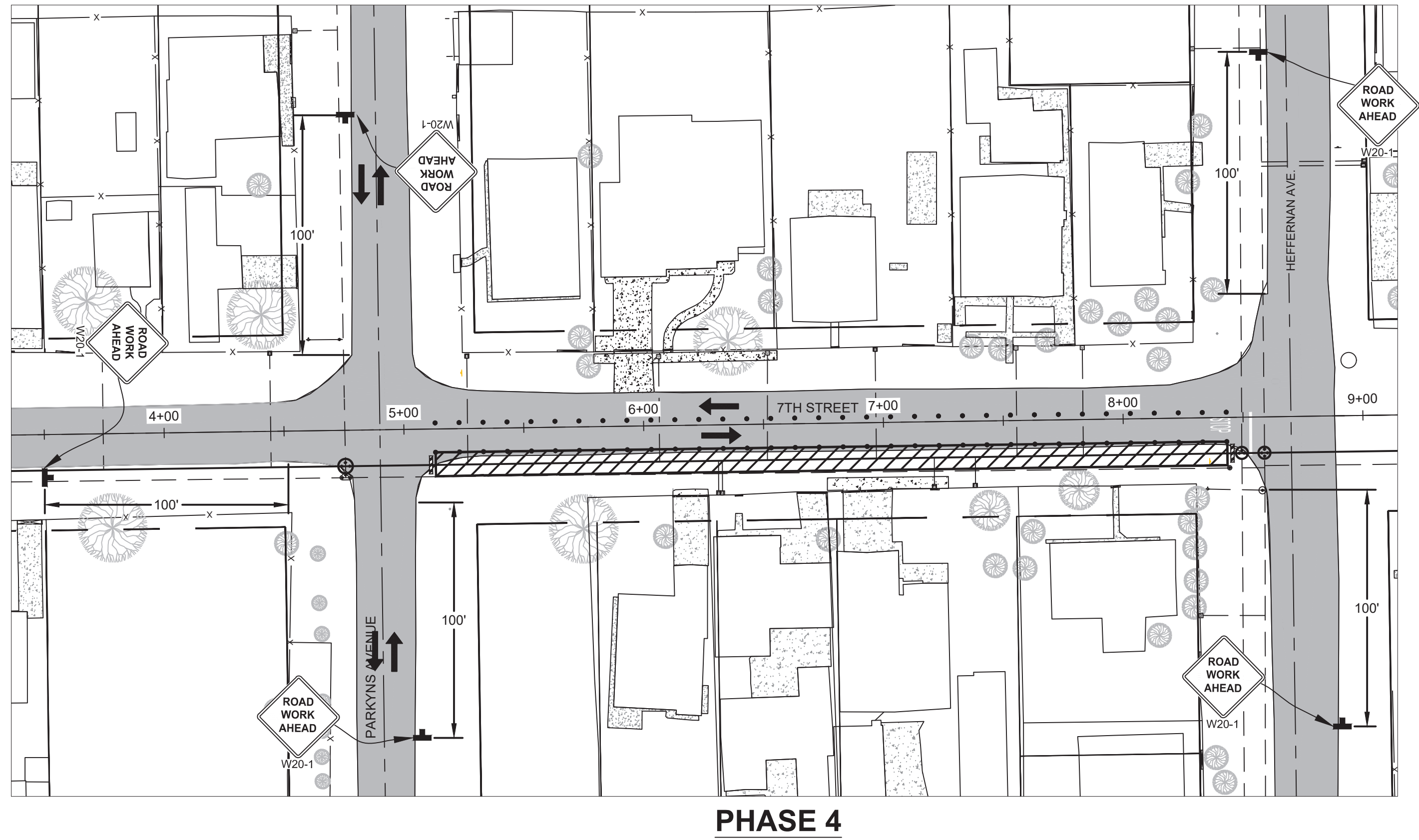
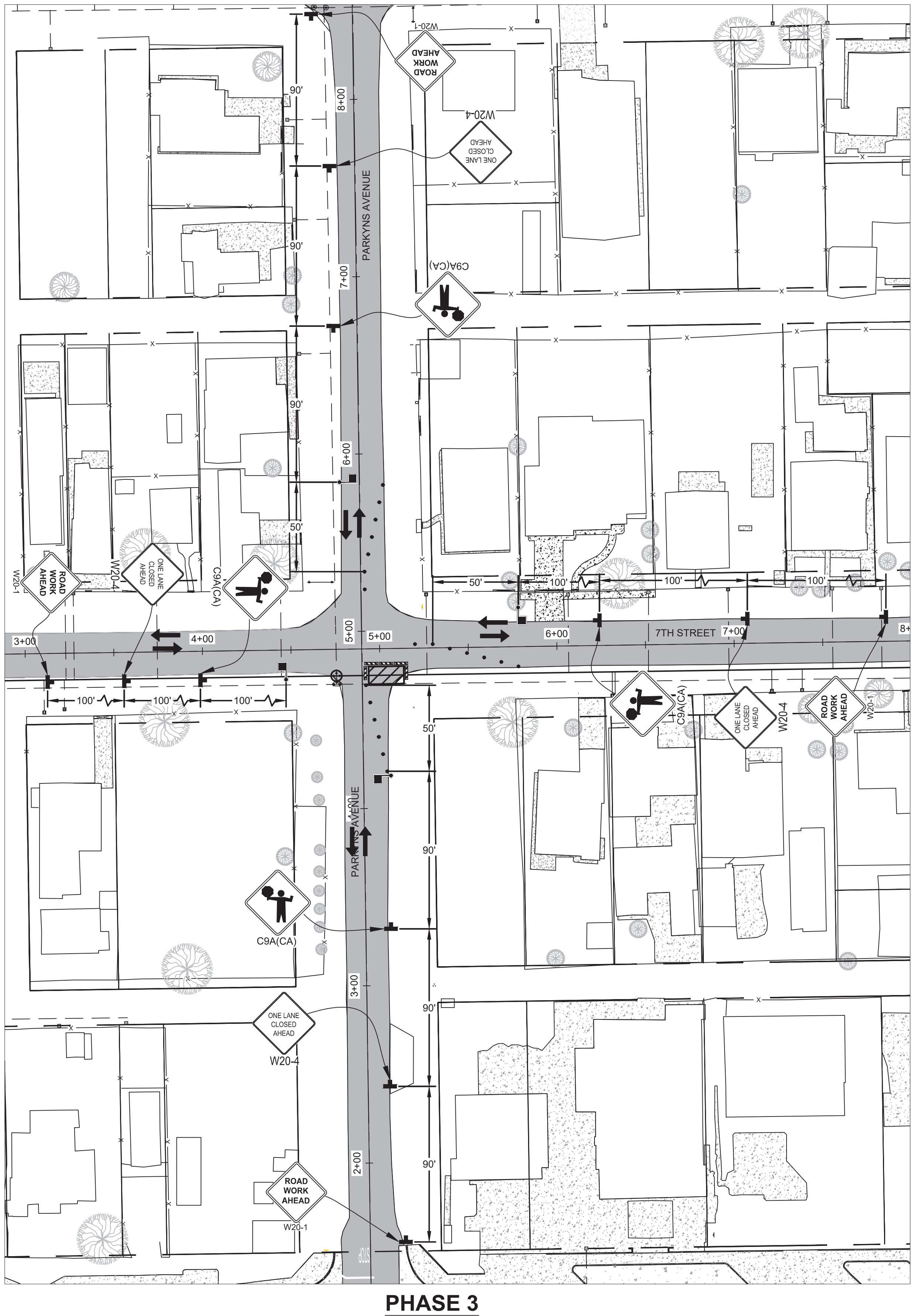


PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	TRAFFIC CONTROL PLAN I

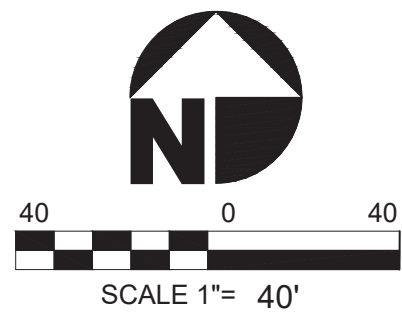
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TRAFFIC CONTROL LEGEND					
ITEM NO.	ITEM DESCRIPTION	ITEM	ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE	●	5.	WARNING LIGHT	☀
2.	DIRECTION OF TRAFFIC	➔	6.	WORK AREA	▨
3.	TYPE III BARRICADE	▨	7.	FLAGGER	🚧
4.	WARNING/REGULATORY SIGN	⚠			



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JESUS R. MARMOLEJO, P.E.	80410 R.C.E. No.
04/29/2025 DATE	03-31-27 REG. EXP.



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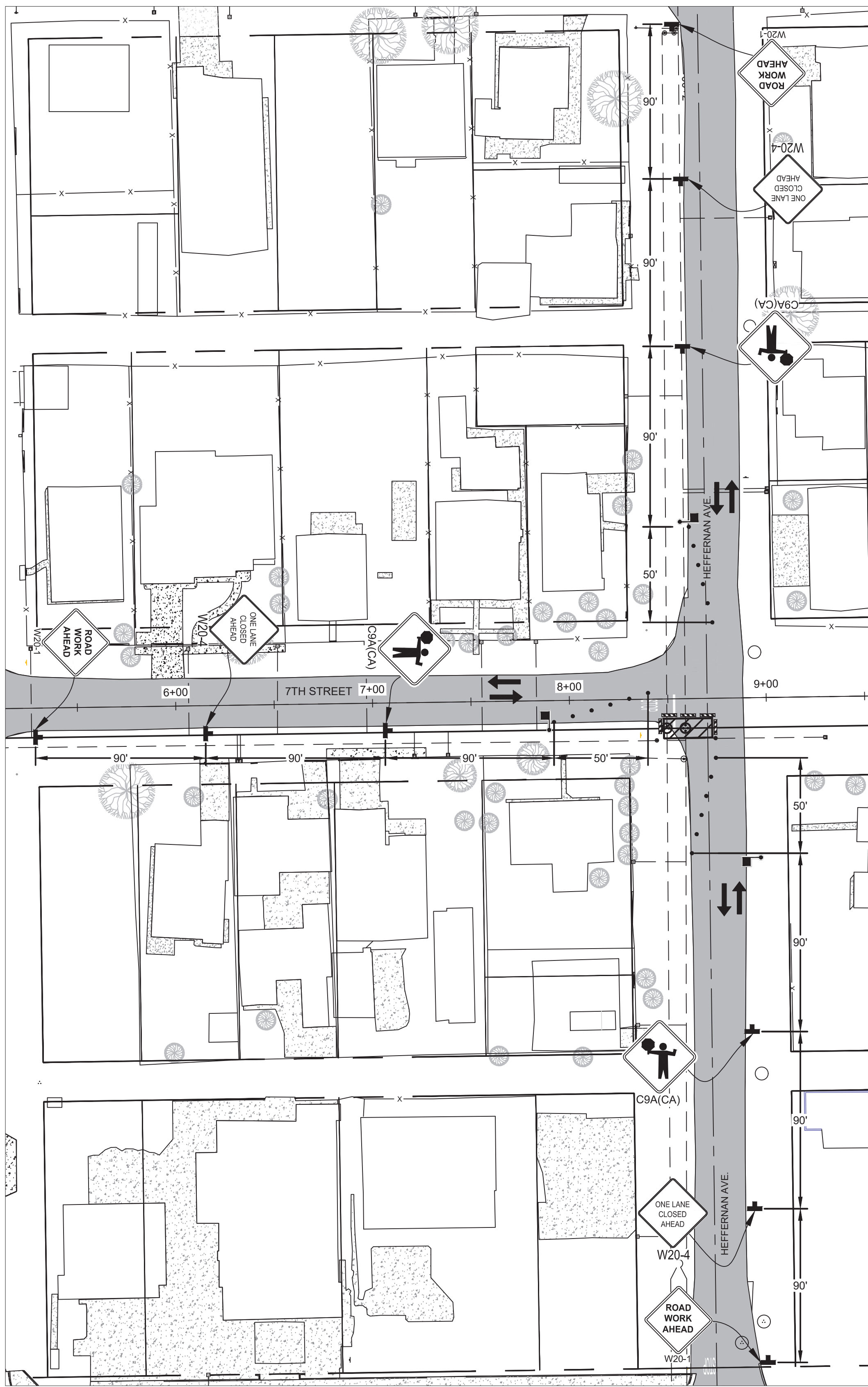


PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	TRAFFIC CONTROL PLAN II

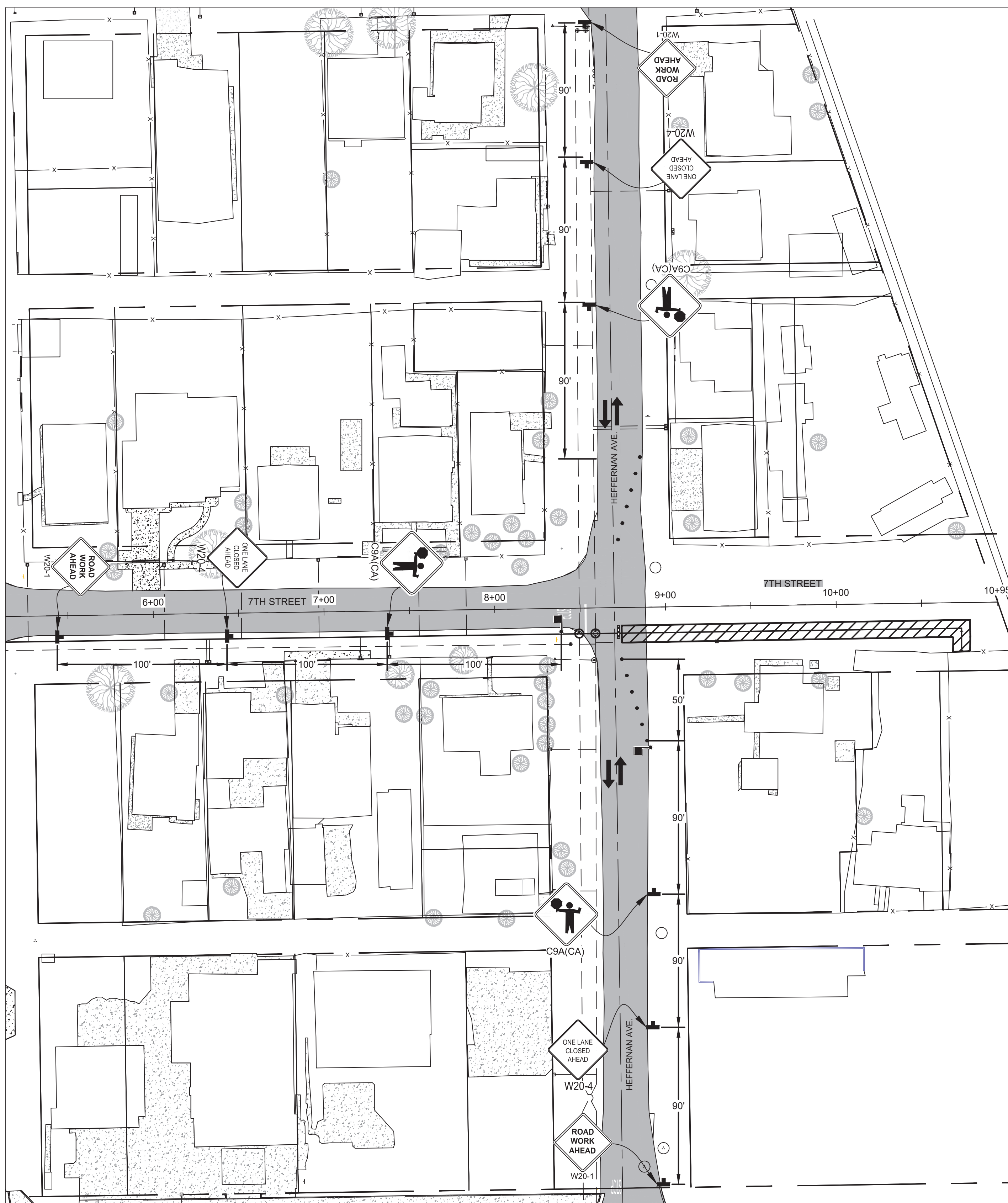
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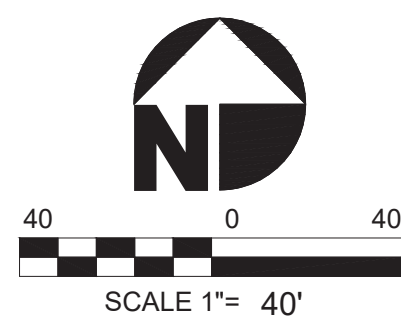
PHASE 5



PHASE 6

TRAFFIC CONTROL LEGEND

ITEM NO.	ITEM DESCRIPTION	ITEM	ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE		5.	WARNING LIGHT	
2.	DIRECTION OF TRAFFIC		6.	WORK AREA	
3.	TYPE III BARRICADE		7.	FLAGGER	
4.	WARNING/REGULATORY SIGN				



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PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	TRAFFIC CONTROL PLAN III

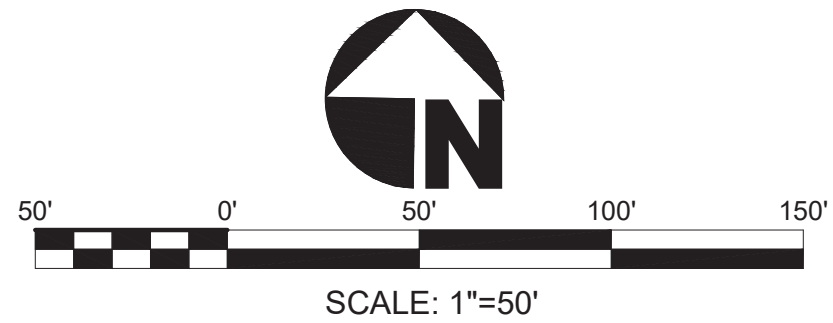
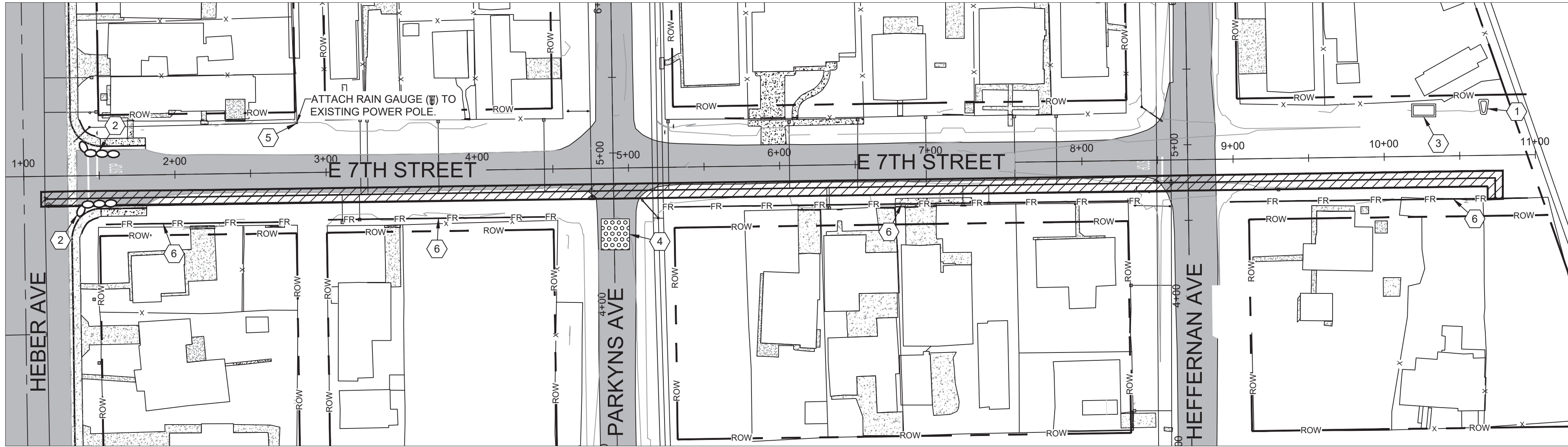
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OF	
13 SHEETS	



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GENERAL EROSION CONTROL NOTES:

1. EROSION CONTROL PLAN INCLUDES ALL POSSIBLE BMPs FOR THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL APPLY APPROPRIATE BMPs FOR EACH PHASE OF CONSTRUCTION.
2. STREET SWEEPING (DURING MASS GRADING ACTIVITIES, STREETS WILL BE SWEEPED AS NECESSARY TO PREVENT DIRT AND DUST FROM LEAVING THE CONSTRUCTION AREA).
3. CONTRACTOR SHALL PROVIDE ADEQUATE DUST SUPPRESSION TO MEET ALL COUNTY OF IMPERIAL AIR POLLUTION CONTROL DISTRICT REQUIREMENTS.
4. ALL BEST MANAGEMENT PRACTICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) HANDBOOK.
5. SITE DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
6. NO SITE CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
7. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
9. DISTURBED NATIVE SURFACE AREAS FOR 2-FOOT TRENCH WIDTH EQUALS 1,920 S.F.



TEMPORARY CONSTRUCTION SITE BMPs				
BMP #	ITEM	UNIT	ESTIMATED QUANTITY	NOTES
—	CONSTRUCTION SITE AND WPCP MANAGEMENT BY QSP	LS	1	SITE MANAGEMENT INCLUDES, BUT IS NOT LIMITED TO ,CASQA SOURCE CONTROL BMP'S.
SC-10	TEMPORARY DRAINAGE INLET PROTECTION	LS	1	DRAINAGE INLETS SHALL BE PROTECTED WITH GRAVEL BAGS. THE GRAVEL BAGS SHALL NOT EXTEND MORE THAN 2' INTO THE TRAVELED WAY.
WM-8	TEMPORARY PORTABLE CONCRETE WASHOUT	LS	1	TEMPORARY PORTABLE CONCRETE WASHOUT SHALL BE PROVIDED THROUGHOUT THE DURATION OF CONCRETE WORK BEING PERFORMED.
WM-9	RESTROOM FACILITIES	LS	1	THE RESTROOM FACILITIES SHALL BE SECURED FROM OVERTURNING IN HIGH WIND CONDITIONS.
WE-1	WIND EROSION CONTROL	LS	1	MAINTAIN DUST CONTROL THROUGHOUT THE ENTIRE SITE FOR THE DURATION OF THE PROJECT. WATER TRUCKS, OR EQUIVALENT BMP, SHALL BE USED FOR DUST SUPPRESSION. CONTRACTOR SHALL OBSERVE COUNTY OF IMPERIAL AIR POLLUTION CONTROL REQUIREMENTS THROUGHOUT THE CONSTRUCTION PROJECT.
SE-5	TEMPORARY FIBER ROLL	LF	755	PERIMETER CONTROL, PLACED ALONG THE SOUTH CONSTRUCTION LIMITS AS SHOWN ON THIS PLAN FOR EROSION CONTROL.

BMP KEYNOTES

- ① CONTRACTOR SHALL LOCATE THE PORTABLE RESTROOM FACILITIES IN THE STAGING AREA. SEE DETAIL E5 FOR TYPICAL STAGING AREA ON SHEET 14.
- ② INSTALL TWO (2) LAYER GRAVEL-FILLED BAGS. SEE DETAIL E3 ON SHEET 14.
- ③ INSTALL CONCRETE WASHOUT AREA. SEE DETAIL E4 ON SHEET 14.
- ④ INSTALL CONSTRUCTION ENTRANCE PER DETAIL E1 AND E5 ON SHEET 14.
- ⑤ INSTALL A RAIN GAUGE PER THE CASQA REQUIREMENTS.
- ⑥ INSTALL FIBER ROLLS PER DETAIL E2 ON SHEET 14.

LEGEND

TEMPORARY RIBER ROLLS	
CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT	
RAIN GAUGE	
PORTABLE RESTROOM	
WORK AREA	
GRAVEL SAND BAGS	

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04/29/2025  
DATE

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PROJECT TITLE : HEBER PUBLIC UTILITY DISTRICT  
7TH STREET WATER PIPELINE PROJECT

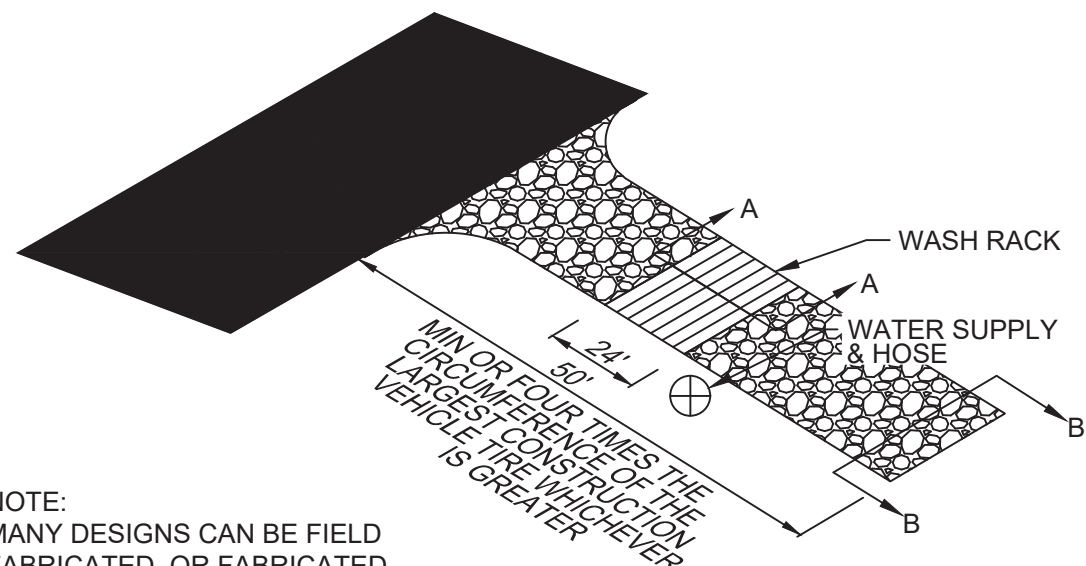
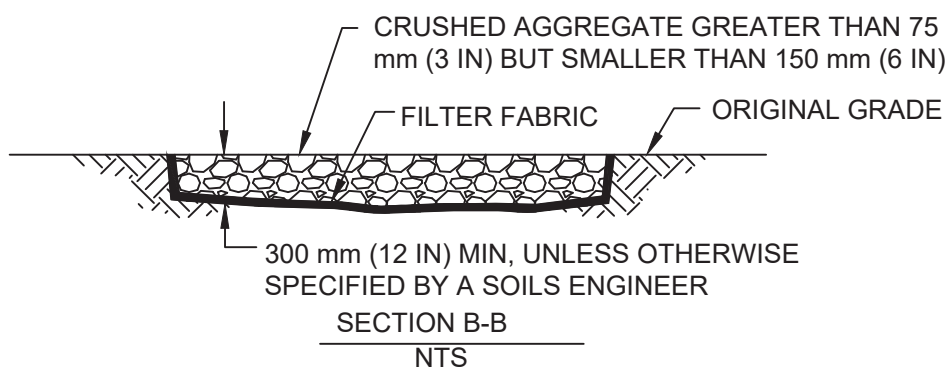
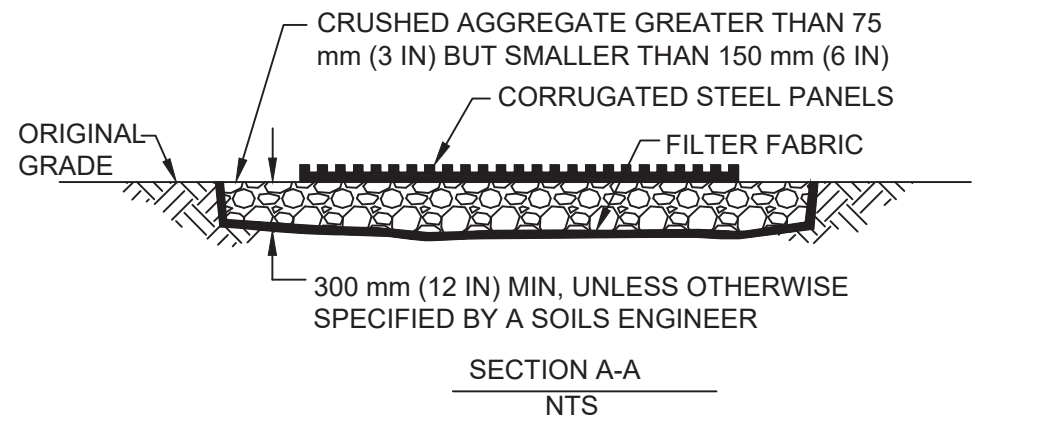
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SHEET CONTENT : EROSION CONTROL PLAN

SHEET NO.  
12  
OF  
13 SHEETS

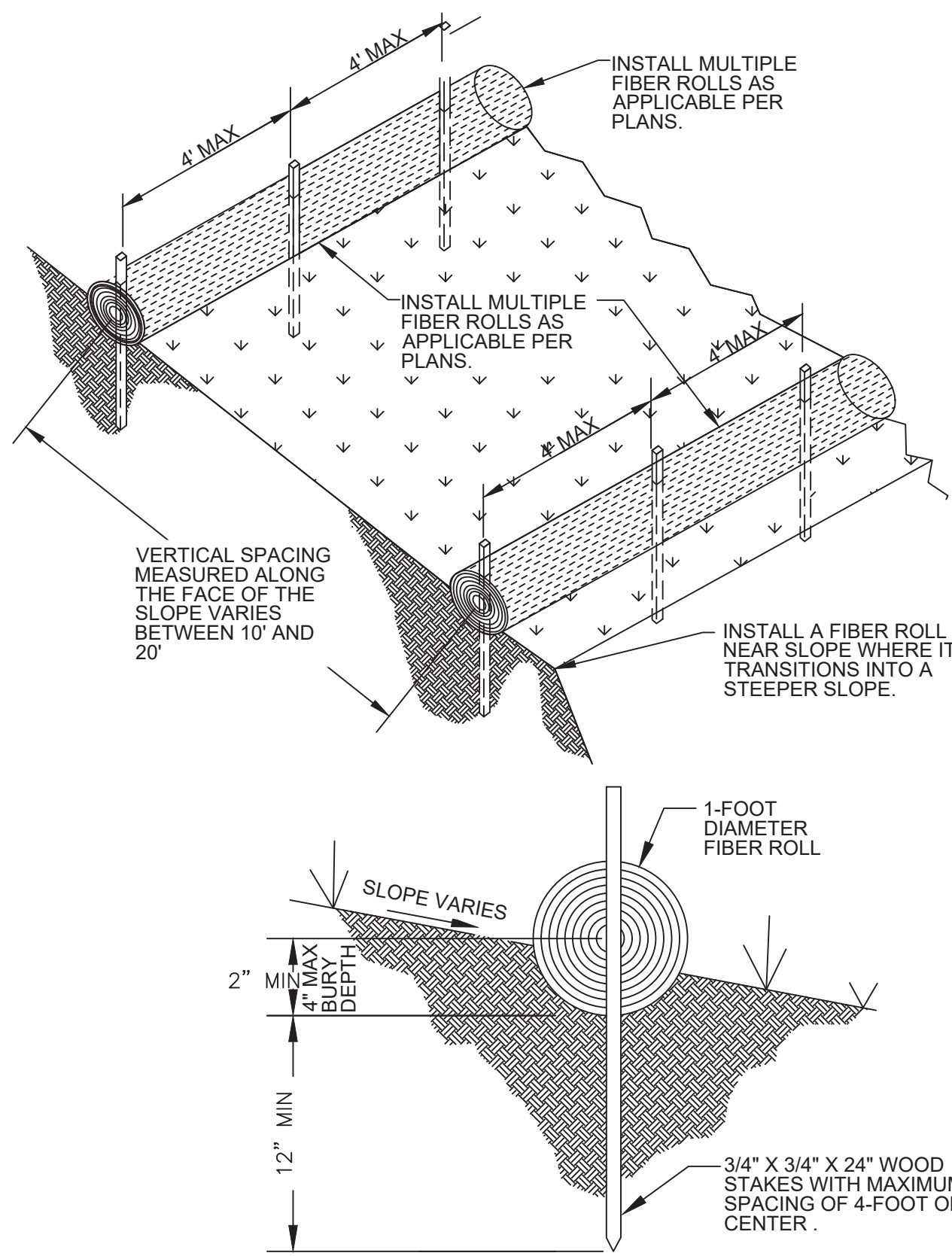


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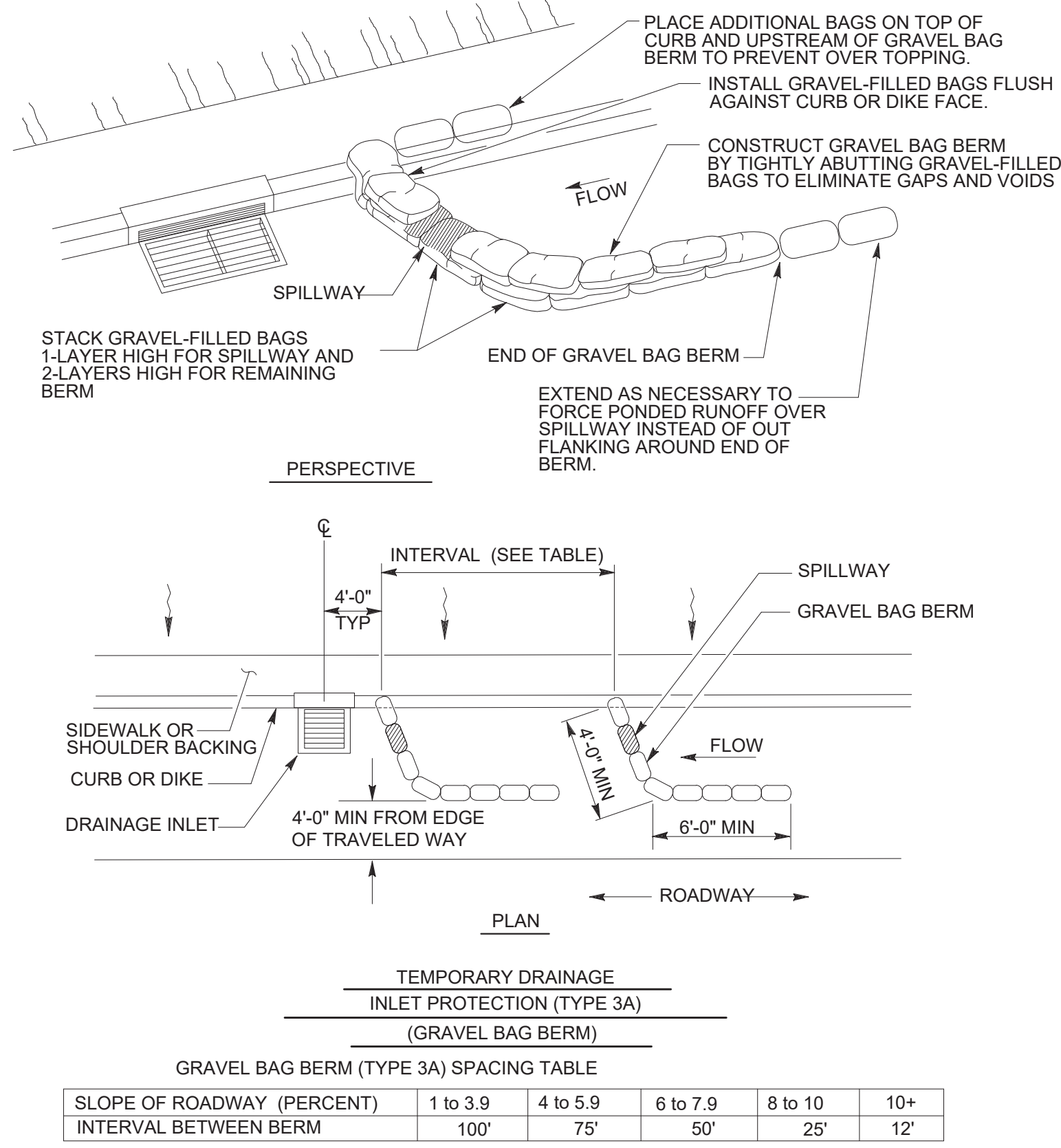


NOTE:  
MANY DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED AS LONG AS DESIGN IS ADEQUATE FOR FULL LENGTH CONSTRUCTION TRUCK VEHICLES.

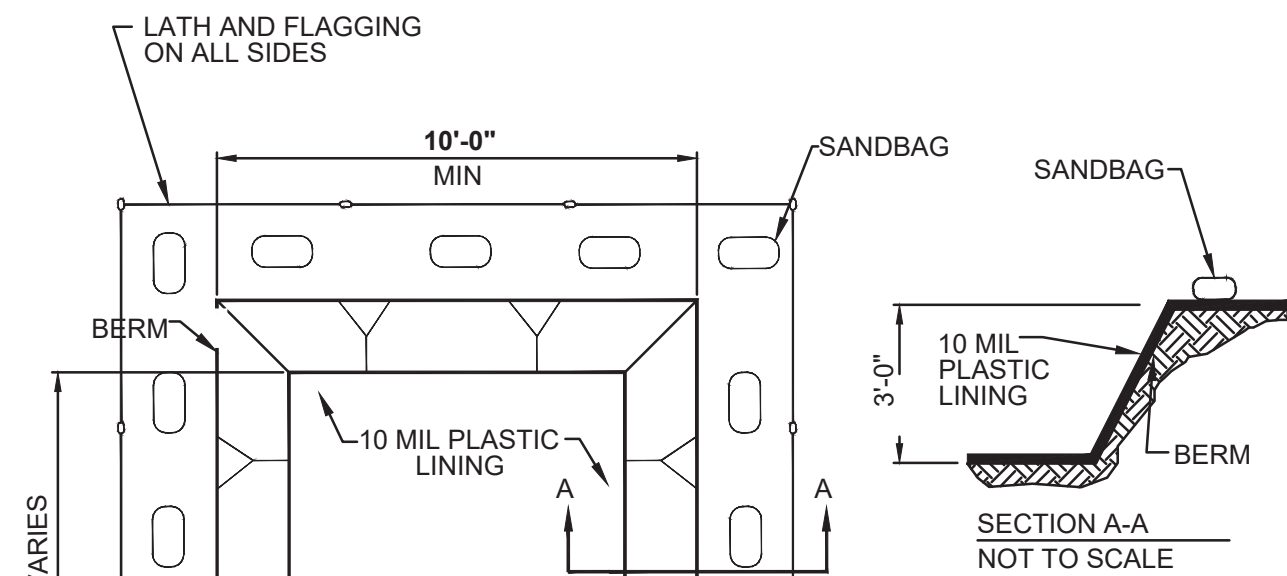
CONSTRUCTION ENTRANCE - DETAIL E1  
NOT TO SCALE



TYPICAL FIBER ROLL INSTALLATION - DETAIL E2  
NOT TO SCALE

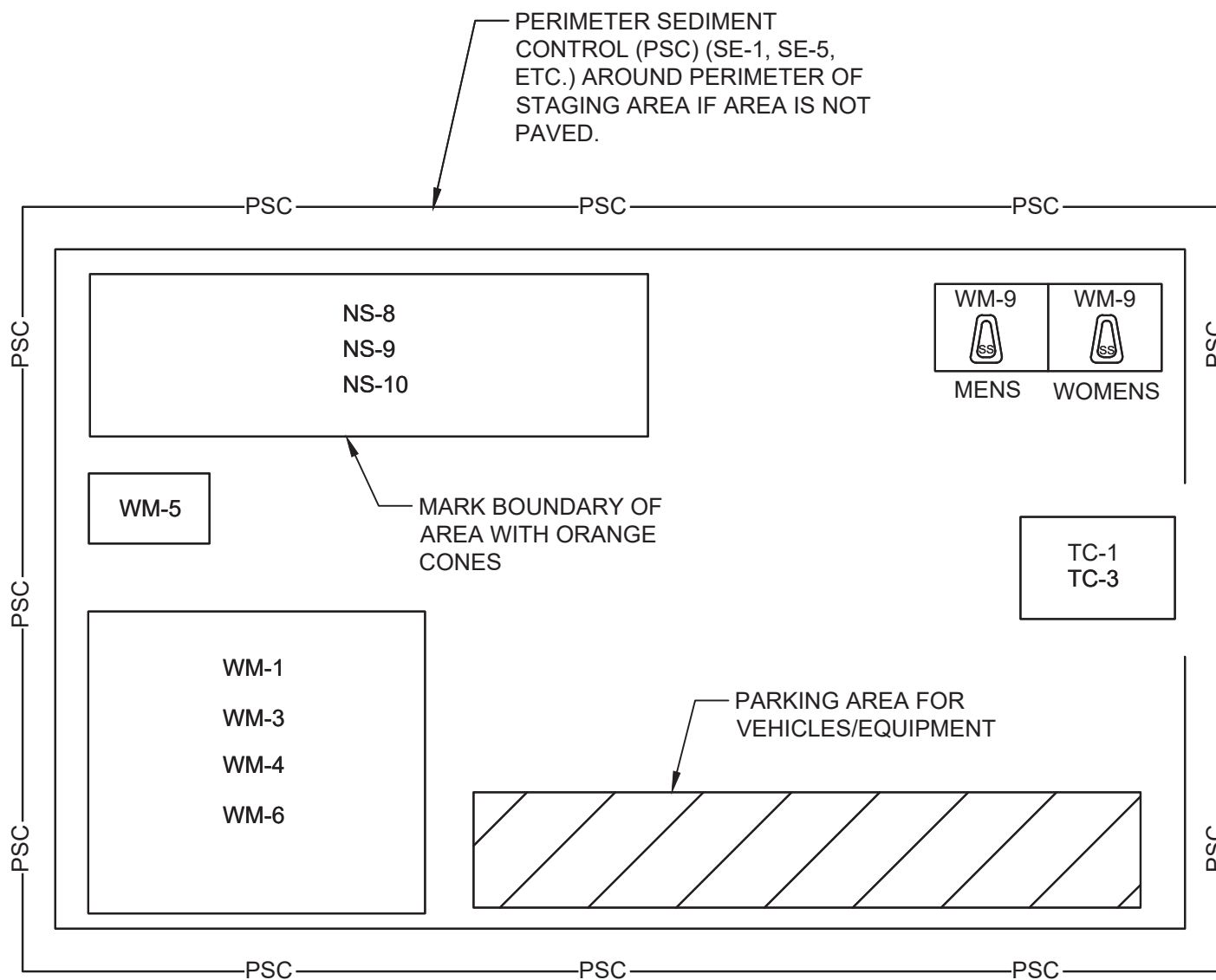


GRAVEL BAG DETAIL - DETAIL E3  
NOT TO SCALE



NOTE: CONTRACTOR SHALL USE A TEMPORARY WASHOUT AREA AT AREAS WHERE A PERMANENT CONCRETE WASHOUT IS NOT ALLOWED.

CONCRETE WASHOUT AREA - DETAIL E4  
NOT TO SCALE



TYPICAL STAGING AREA LAYOUT

- NOTES:
- CONTRACTOR SHALL ADJUST THE LAYOUT OF STAGING AREA BASED ON PROJECT SITE CONDITIONS AS NECESSARY.
  - CONTRACTOR SHALL IMPLEMENT PERIMETER SEDIMENT CONTROL FOR STAGING AREA BASED ON PROJECT SITE CONDITIONS UPON THE APPROVAL OF THE RESIDENT ENGINEER.

LEGEND

- SE-1 SILT FENCE  
SE-5 FIBER ROLLS  
NS-8 VEHICLE AND EQUIPMENT CLEANING  
NS-9 VEHICLE AND EQUIPMENT FUELING  
NS-10 VEHICLE AND EQUIPMENT MAINTENANCE  
WM-1 MATERIAL DELIVERY AND STORAGE  
WM-3 STOCKPILE MANAGEMENT  
WM-4 SPILL PREVENTION AND CONTROL  
WM-5 SOLID WASTE MANAGEMENT  
WM-6 HAZARDOUS WASTE MANAGEMENT  
WM-9 SANITARY/SEPTIC WASTE MANAGEMENT  
TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT  
TC-3 TEMPORARY ENTRANCE/OUTLET TIRE WASH  
WE-1 WIND EROSION CONTROL (TO BE IMPLEMENTED FOR UNPAVED/NATIVE AREAS STOCKPILE MANAGEMENT)

TYPICAL STAGING AREA - DETAIL E5  
NOT TO SCALE

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PROJECT TITLE :	HEBER PUBLIC UTILITY DISTRICT 7TH STREET WATER PIPELINE PROJECT
PROJECT NUMBER :	744.099
SHEET CONTENT :	EROSION CONTROL PLAN DETAILS

SHEET NO.
13
OF
13 SHEETS