

CITY OF TURLOCK

CAPITAL PROJECT NO. 14-44

INTERSECTION IMPROVEMENTS

AT W. MAIN ST. & S. TEGNER RD.

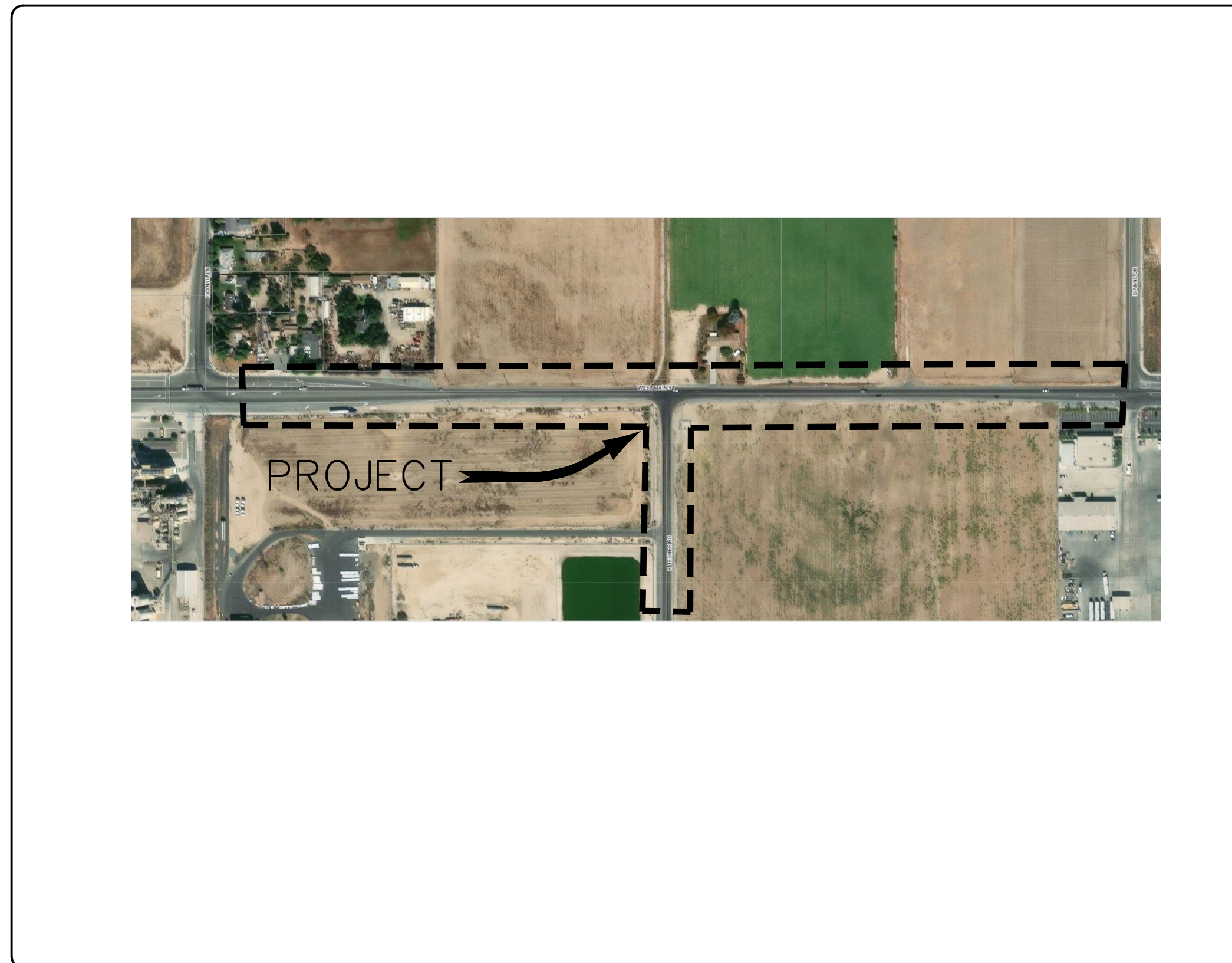
CML-5165 (081)

LEGEND

⊕	BENCHMARK
⊙	EX. MONUMENT WELL
●	EX. MONUMENTS
●	EX. SET MONUMENT
101.97 C	EX. CONCRETE ELEVATION
101.39 FL	EX. FLOWLINE OF CURB ELEVATION
101.39 BSW	EX. BACK OF SIDEWALK ELEVATION
101.14 P	EX. PAVEMENT ELEVATION
101.5	EX. GROUND ELEVATION
---	PROPERTY LINE
---	CENTERLINE
---	EX. FENCE
---	EX. SANITARY SEWER PIPELINE
---	EX. IRRIGATION PIPELINE
---	EX. STORM DRAIN PIPELINE
---	EX. WATER PIPELINE
○ SSMH	EX. SANITARY SEWER MANHOLE
○ SDMH	EX. STORM DRAIN MANHOLE
⊕	EX. WATER VALVE
⊕	EX. WATER WELL
⊕	EX. NON-POTABLE WATER VALVE
○ MH	EX. MANHOLE
○ TMH	EX. TELEPHONE MANHOLE
○ PMH	EX. PRESSURE MANHOLE
○ SSCO	EX. SANITARY SEWER CLEAN OUT
● FH	EX. FIRE HYDRANT
⊕ GV	EX. GAS VALVE
●	EX. CATCH BASIN
■	EX. DRAIN INLET
○ HW	EX. TRAFFIC SIGNAL HAND WELL
□	EX. TRAFFIC SIGNAL LOOP DETECTOR
● GP	EX. BOLLARD
⊕	EX. LIGHT
⊕	EX. STREET LIGHT
---	EX. SIGN
● PP	EX. POWER POLE
● TP	EX. TELEPHONE POLE
● JP	EX. JOINT UTILITY POLE
● GP	EX. GUY POLE
● SP	EX. UTILITY SERVICE POLE
○	EX. TREE
⊕	EX. CABLE CHRISTY BOX
⊕	EX. ELECTRICAL CHRISTY BOX
⊕	EX. FIRE ALARM CHRISTY BOX
⊕	EX. GAS CHRISTY BOX
⊕	EX. IRRIGATION CHRISTY BOX
⊕	EX. STREET LIGHT CHRISTY BOX
⊕	EX. COMMUNICATION CHRISTY BOX
⊕	EX. TRAFFIC CHRISTY BOX
⊕	EX. IRRIGATION CONTROL VALVE BOX
⊕	EX. TELEPHONE CHRISTY BOX
⊕	EX. UTILITY CHRISTY BOX
⊕	EX. WATER CHRISTY BOX
---	PROP. IRRIGATION PIPELINE
---	PROP. HOT MIX ASPHALT
---	PROP. CONCRETE

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AP	ANGLE POINT
APN	ASSESSOR'S PARCEL NUMBER
AV	AIR VENT
BC	BEGINNING OF CURVE
BO	BLOWOFF
BSW	BACK OF SIDEWALK
C	CONCRETE
CB	CATCH BASIN
CL	CENTERLINE
CY	CUBIC YARD
DI	DROP INLET
EC	END OF CURVE
EP	EDGE OF PAVEMENT
EX	EXISTING
FH	FIRE HYDRANT
FL	FLOWLINE
FM	FORCE MAIN
GB	GRADE BREAK
GP	GUY POLE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HW	HANDWELL
IDP	IRRIGATION DISTRIBUTION BOX
INV	INVERT
IRR	IRRIGATION
ISP	IRRIGATION STAND PIPE
IV	IRRIGATION VALVE
JP	JOINT UTILITY POLE
L	LENGTH
LF	LINEAR FOOT
LP	LOW POINT
MB	MAILBOX
NPW	NON-POTABLE WATER
OC	ON CENTER
P	PAVEMENT
PCC	POINT OF COMPOUND CURVE
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
R	RADIUS
RHMA	RUBBERIZED HOT MIX ASPHALT
ROW	RIGHT OF WAY
RW	RAW WATER
S	SLOPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SMMH	SANITARY SEWER MANHOLE
SP	SERVICE POLE
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
TC	TOP OF CURB
TMH	TELEPHONE MANHOLE
TP	TELEPHONE POLE
TYP	TYPICAL
UG	UNDERGROUND
UP	UTILITY POLE
W	POTABLE WATER



VICINITY MAP

SHEET INDEX

SHEET	DESCRIPTION
1	SHEET INDEX, LEGEND & VICINITY MAP
2	TOPOGRAPHY SURVEY
3	TOPOGRAPHY SURVEY
4	TOPOGRAPHY SURVEY
5	DEMOLITION PLAN
6	DEMOLITION PLAN
7	DEMOLITION PLAN
8	GRADING PLAN
9	GRADING PLAN
10	GRADING PLAN
11	TID UTILITY PLAN
12	TID CONSTRUCTION DETAILS
13	UTILITY PLAN
14	STRIPING AND SIGN PLAN
15	STRIPING AND SIGN PLAN
16	STRIPING AND SIGN PLAN
17	TRAFFIC SIGNAL PLAN
18	TRAFFIC SIGNAL SPECIFICATIONS
19	TRAFFIC SIGNAL SPECIFICATIONS
20	CONSTRUCTION DETAILS
21	CONSTRUCTION DETAILS
22	TRAFFIC SIGNAL DETAILS

CONTACTS

CITY OF TURLOCK, MUNICIPAL SERVICES DEPARTMENT
(209) 668-5520 ENGINEERING DIVISION

CITY OF TURLOCK, MUNICIPAL SERVICES DEPARTMENT
(209) 668-5590 FOR SEWER, STORM AND WATER LINES

TURLOCK IRRIGATION DISTRICT (ELECTRICAL)
(209) 883-8419 ED JEFFERS

TURLOCK IRRIGATION DISTRICT (IRRIGATION)
(209) 883-8367 TODD TROGLIN

CHARTER COMMUNICATIONS
(209) 633-3033 ABRAHAM ZAMORA

PACIFIC GAS & ELECTRIC (GAS)
(209) 561-6070 TRENT MILLSAP

AT&T
(209) 507-1689 JIM JELLEY

FIRE DEPARTMENT (NON-EMERGENCY)
(209) 668-5580

POLICE DEPARTMENT (NON-EMERGENCY)
(209) 668-1200

AMBULANCE
(209) 632-2271

TURLOCK SCAVENGER
(209) 668-7274



NOTE:
ALL REFERENCES AND WRITTEN
DIMENSIONS SHALL SUPERCEDE
ALL SCALED DISTANCES AND
SHALL BE VERIFIED IN THE
FIELD. ANY DISCREPANCY SHALL
BE BROUGHT TO THE ATTENTION
OF THE ENGINEER PRIOR TO
THE COMMENCEMENT OF WORK.

William D. Morris
WILLIAM D. MORRIS, RCE, PLS
CITY ENGINEER

10/9/2024
PLANS APPROVAL DATE



CITY OF TURLOCK
MUNICIPAL SERVICES DEPT.
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

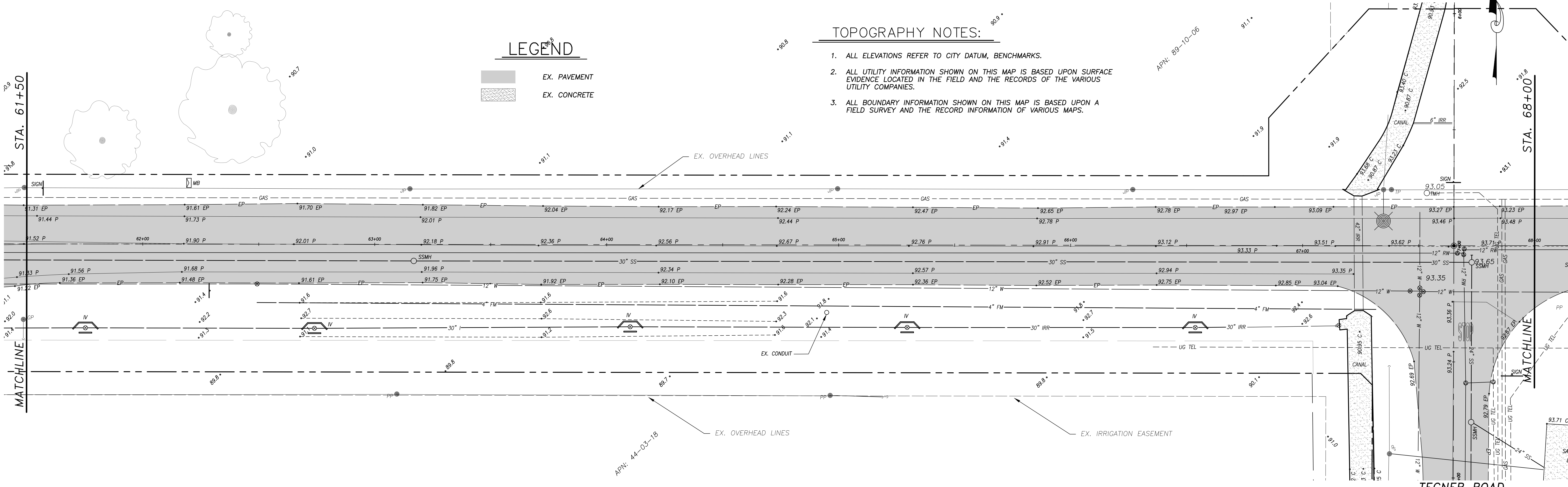
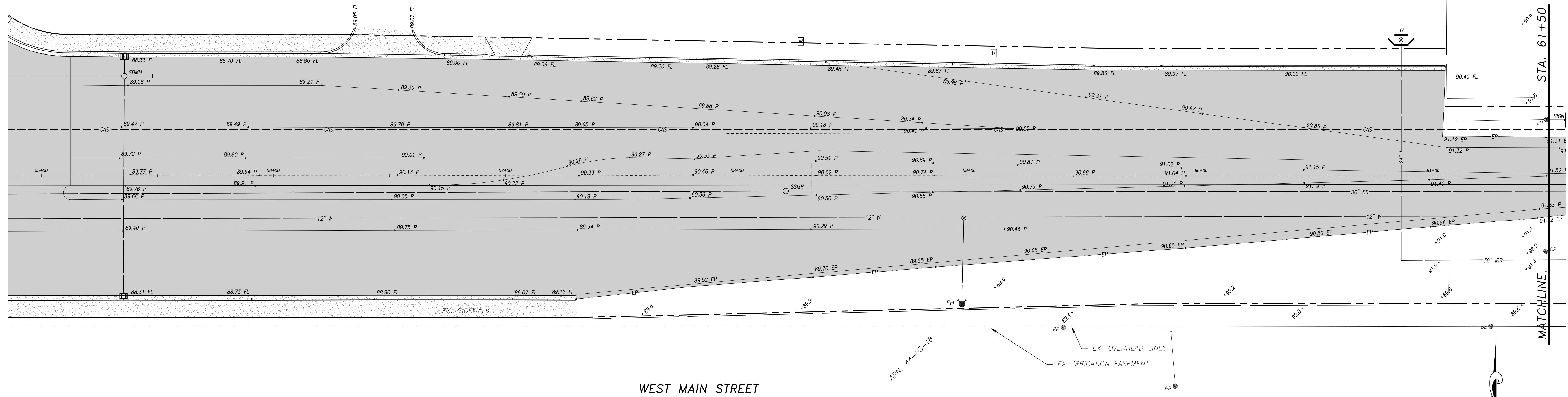
SHEET INDEX, LEGEND & VICINITY MAP
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

VERIFY SCALE
BAR IS 1" ON
ORIGINAL DRAWING
1/4" 3/4" 1"
0 1/2"


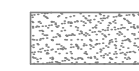
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

DRAWN BY:	RJ
REV. BY:	SF
CH. BY:	WM
DATE:	JULY 2, 2024
SCALE:	NONE
14-44 BASE.dwg	

SHEET
1
of 22



LEGEND

-  EX. PAVEMENT
-  EX. CONCRETE

TOPOGRAPHY NOTES:

1. ALL ELEVATIONS REFER TO CITY DATUM, BENCHMARKS.
2. ALL UTILITY INFORMATION SHOWN ON THIS MAP IS BASED UPON SURFACE EVIDENCE LOCATED IN THE FIELD AND THE RECORDS OF THE VARIOUS UTILITY COMPANIES.
3. ALL BOUNDARY INFORMATION SHOWN ON THIS MAP IS BASED UPON A FIELD SURVEY AND THE RECORD INFORMATION OF VARIOUS MAPS.



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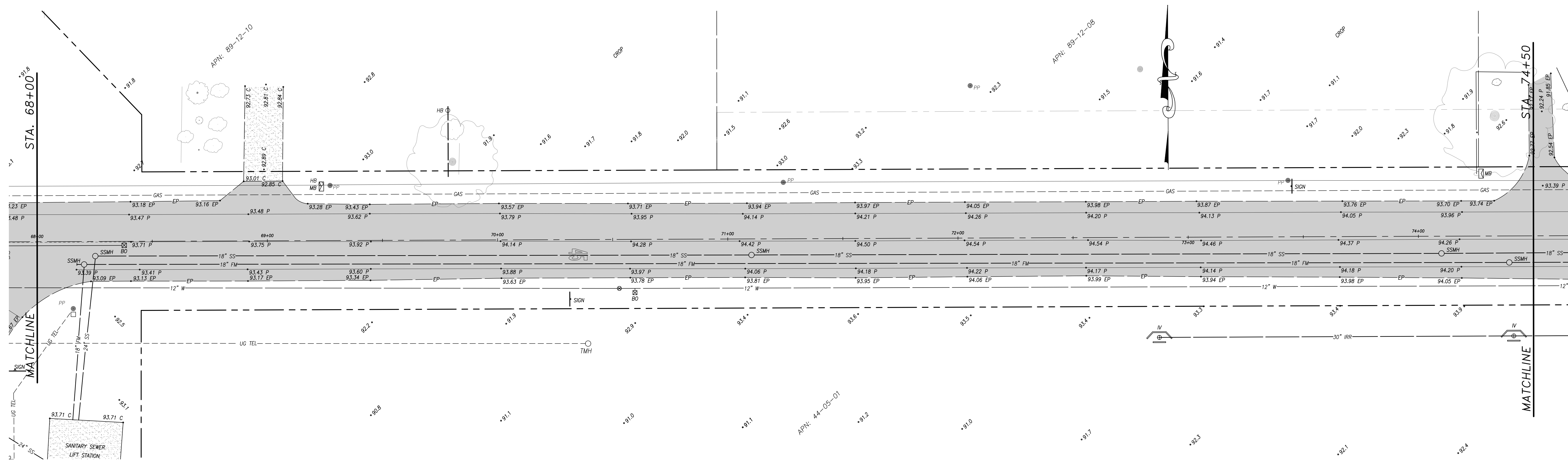
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TOPOGRAPHY SURVEY
W. MAIN STREET ~ STA. 55+00 TO STA. 68+00
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

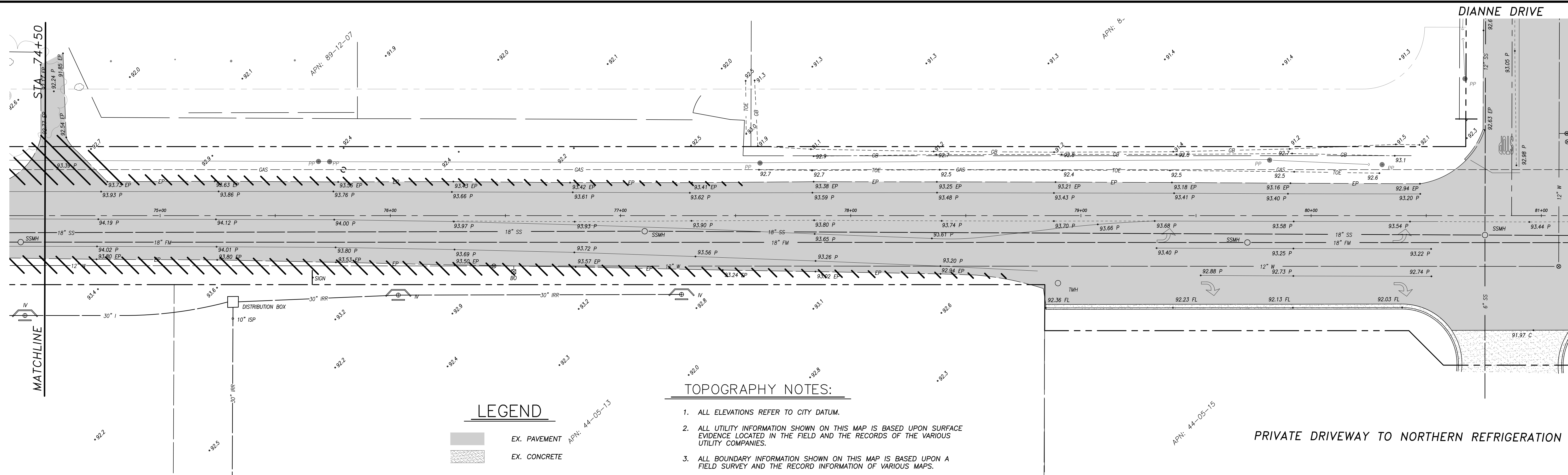
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BAR IS 1" ON ORIGINAL DRAWING
1/4" 3/4" 1"
0 1/2"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY: RJJ
REV. BY: SF
CH. BY: WM
DATE: JULY 2, 2024
SCALE: 1" = 20'
14-44 BASE.dwg

SHEET
2
OF 22





WEST MAIN STREET



DIANNE DRIVE

PRIVATE DRIVEWAY TO NORTHERN REFRIGERATION

LEGEND

-  EX. PAVEMENT
-  EX. CONCRETE

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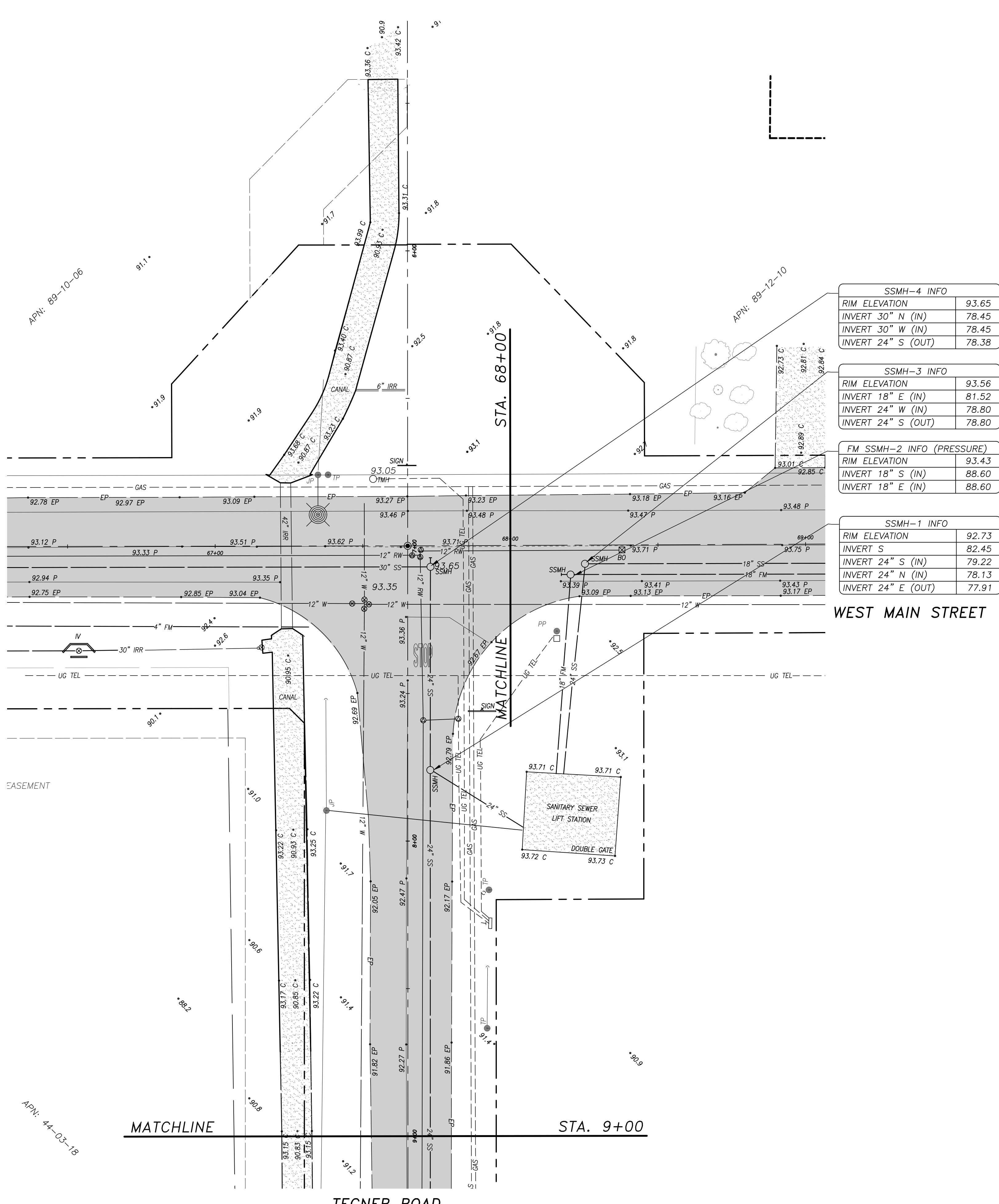
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TOPOGRAPHY SURVEY
W. MAIN STREET ~ STA. 68+00 TO STA. 81+00
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

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DRAWN BY: RJ
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14-44 BASE.dwg

SHEET
3
OF 22



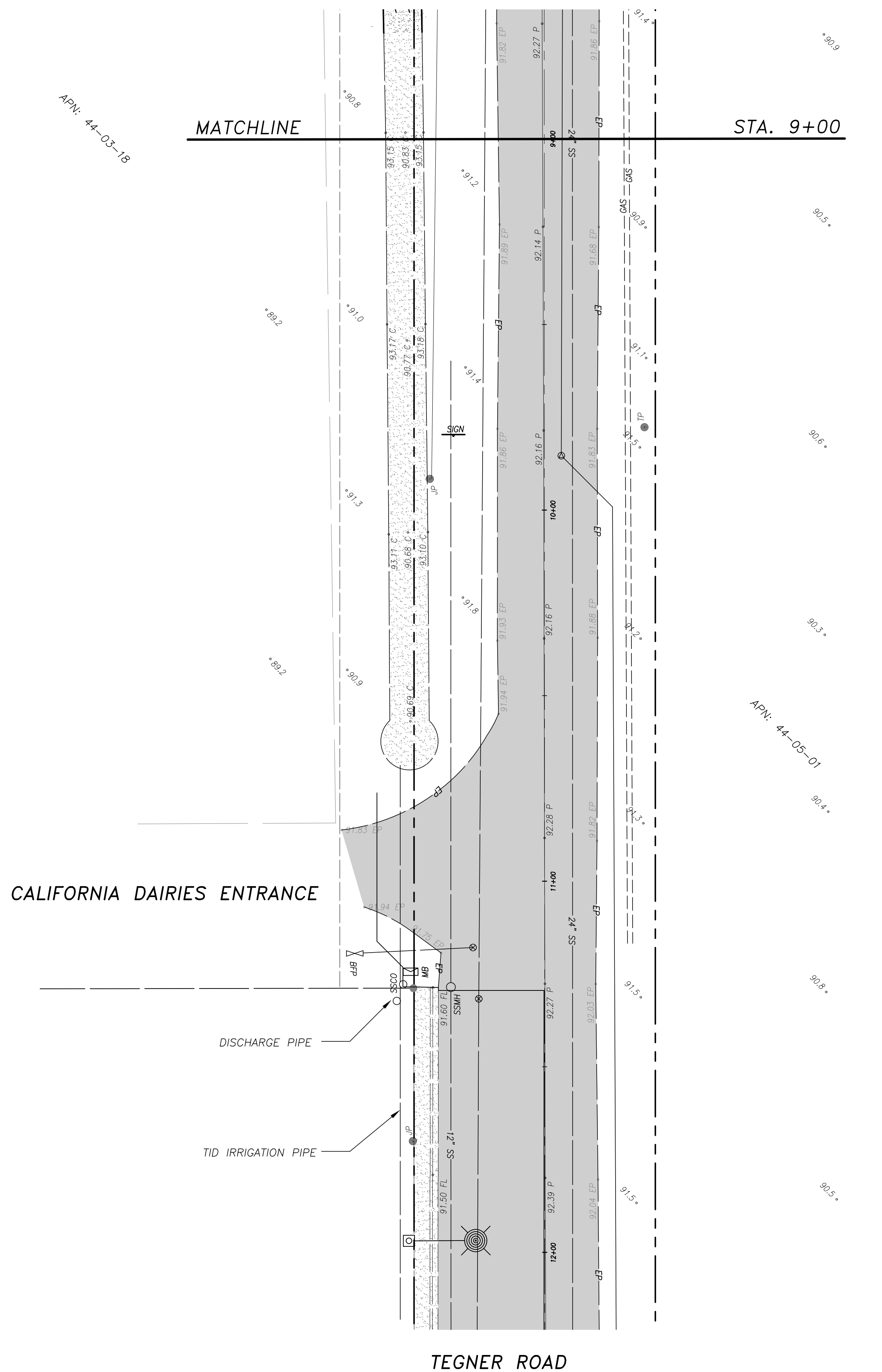
SSMH-4 INFO	
RIM ELEVATION	93.65
INVERT 30" N (IN)	78.45
INVERT 30" W (IN)	78.45
INVERT 24" S (OUT)	78.38

SSMH-3 INFO	
RIM ELEVATION	93.56
INVERT 18" E (IN)	81.52
INVERT 24" W (IN)	78.80
INVERT 24" S (OUT)	78.80

FM SSMH-2 INFO (PRESSURE)	
RIM ELEVATION	93.43
INVERT 18" S (IN)	88.60
INVERT 18" E (IN)	88.60

SSMH-1 INFO	
RIM ELEVATION	92.73
INVERT S	82.45
INVERT 24" S (IN)	79.22
INVERT 24" N (IN)	78.13
INVERT 24" E (OUT)	77.91

WEST MAIN STREET



LEGEND

- EX. PAVEMENT
- EX. CONCRETE

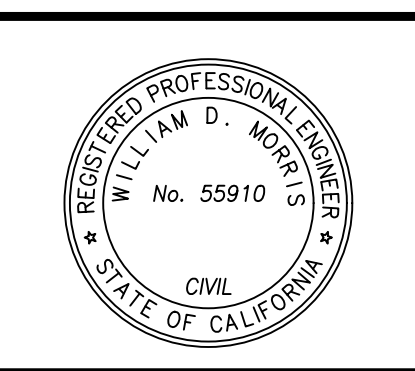
TOPOGRAPHY NOTES:

1. ALL ELEVATIONS REFER TO NAVD 88 DATUM, BENCHMARKS: AS SHOWN
2. ALL UTILITY INFORMATION SHOWN ON THIS MAP IS BASED UPON SURFACE EVIDENCE LOCATED IN THE FIELD AND THE RECORDS OF THE VARIOUS UTILITY COMPANIES.
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TOPOGRAPHY SURVEY
S. TEGNER ROAD ~ BEGIN TO STA. 12+00
CAPITAL PROJECT NO. 14-44
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W. MAIN STREET AND S. TEGNER ROAD

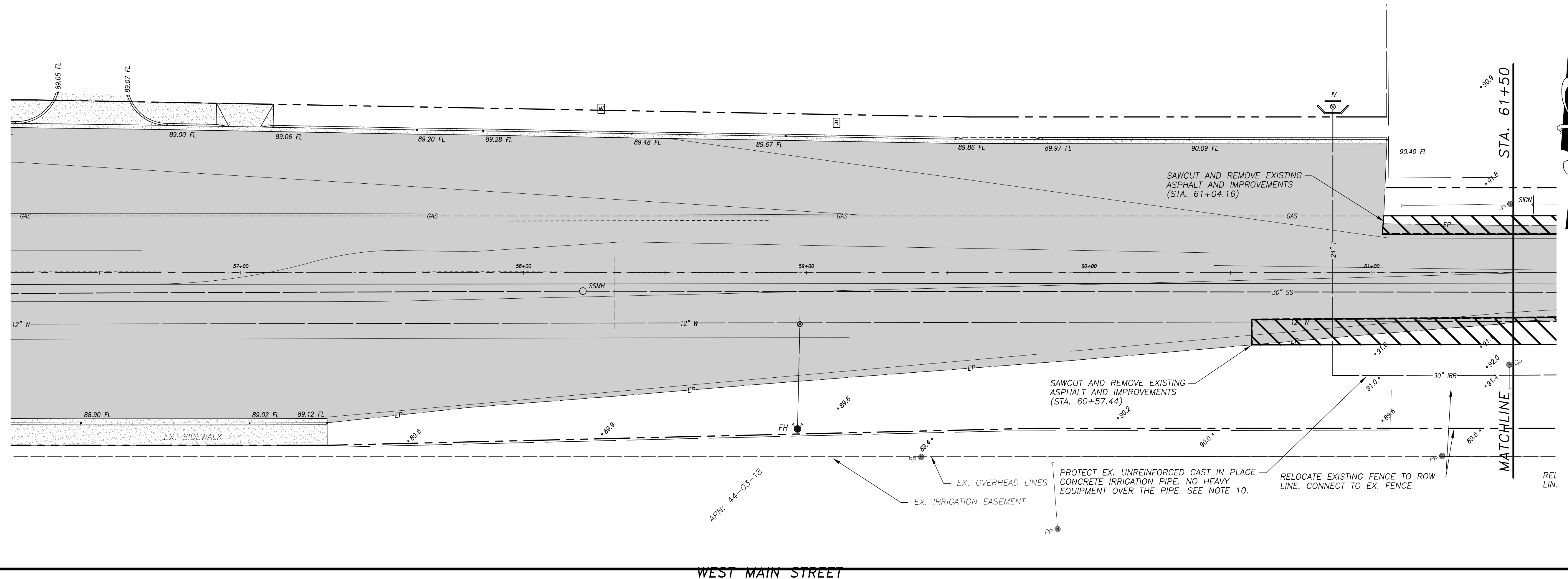
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CH. BY: WM
DATE: JULY 2, 2024
SCALE: 1" = 20'
14-44 BASE.dwg

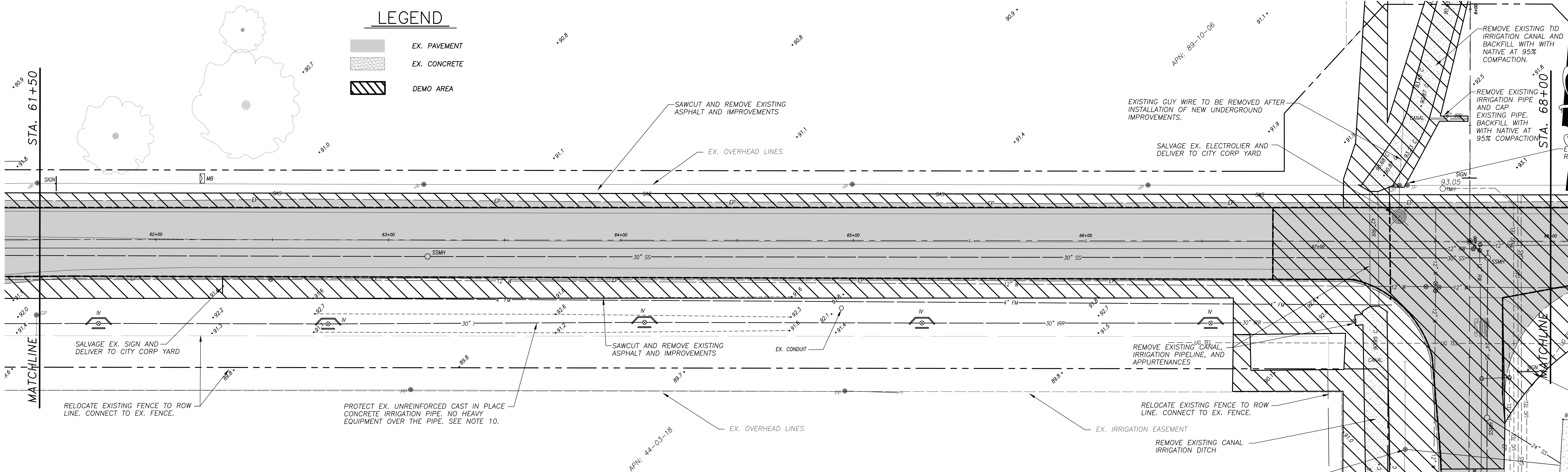
SHEET
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of 22

NOTES:

- 1) CONTRACTOR SHALL REMOVE ALL STRIPING, PAVEMENT LEGENDS, AND PAVEMENT MARKERS IN CONFLICT WITH IMPROVEMENTS.
- 2) CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL MATERIALS.
- 3) CONTRACTOR SHALL PROTECT AND PRESERVE ALL MONUMENTS AND EXISTING UTILITIES, UNLESS NOTED OTHERWISE.
- 4) CONTRACTOR SHALL REMOVE ALL COLD MIX ASPHALT AND FILL VOIDS WITH HMA PRIOR TO PAVING.
- 5) CONTRACTOR SHALL PROTECT AND PRESERVE ALL IMPROVEMENTS ON PRIVATE PROPERTY, UNLESS NOTED OTHERWISE.
- 6) CONTRACTOR SHALL REPAIR ALL TRENCHES INCLUDING CONDUITS PER CITY TRENCH ERRATA STANDARDS.
- 7) CONTRACTOR SHALL COORDINATE ACCESS FOR RESIDENTS TO THEIR PROPERTY DURING CONSTRUCTION.
- 8) CONTRACTOR SHALL RELOCATE FENCE PRIOR TO PERFORMING ADDITIONAL ITEMS OF WORK TO ENSURE BUSINESS HAS SECURE PERIMETER AT ALL TIMES.
- 9) CONTRACTOR SHALL NOT DRIVE HEAVY EQUIPMENT OVER TID IRRIGATION PIPE. ANY IRRIGATION PIPE DAMAGED BY CONTRACTOR'S EQUIPMENT SHALL BE IMMEDIATELY REPLACED AT THE CONTRACTOR'S EXPENSE.
- 10) CONTRACTOR SHALL POT-HOLE EX. UTILITIES AT ALL PROPOSED UTILITY CROSSINGS AND UNDER AREAS TO BE EXCAVATED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND DEPTH OF EX. UTILITIES. CONTRACTOR SHALL PROVIDE A COPY OF POT-HOLING DATA TO THE CITY FOR REVIEW.
- 11) ALL AREAS TO BE BACKFILLED AND COMPACTED TO 95%.

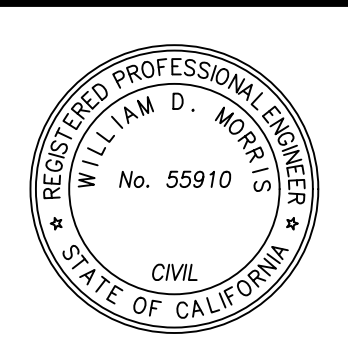


WEST MAIN STREET



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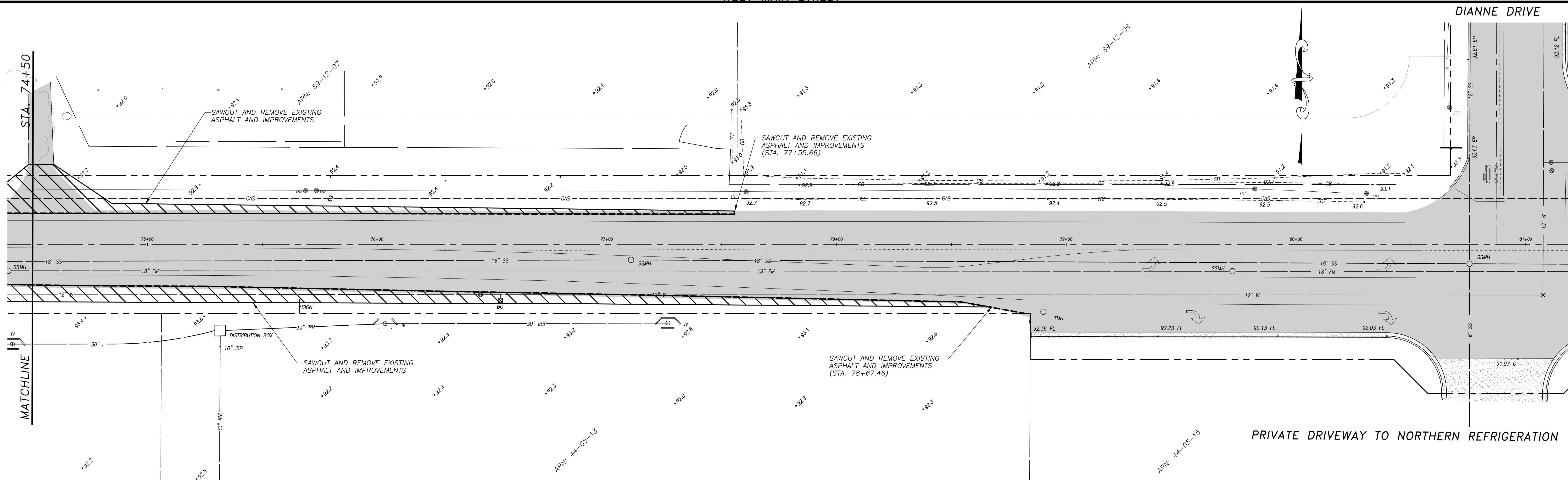
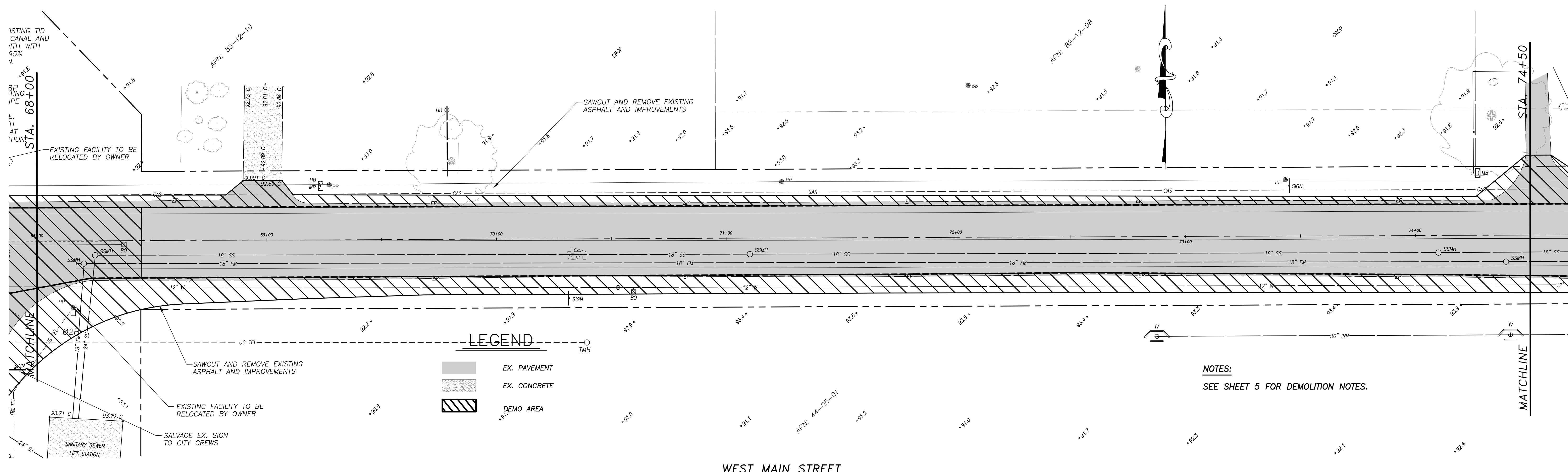
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DEMOLITION PLAN
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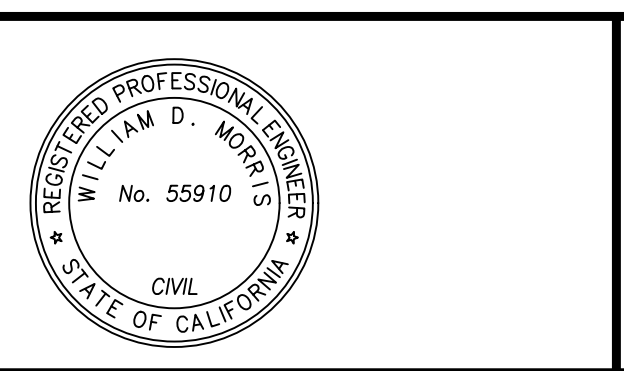
SHEET
5
OF 22



USA NORTH 811
Call 811 Before You Dig
WWW.USANORTH811.ORG

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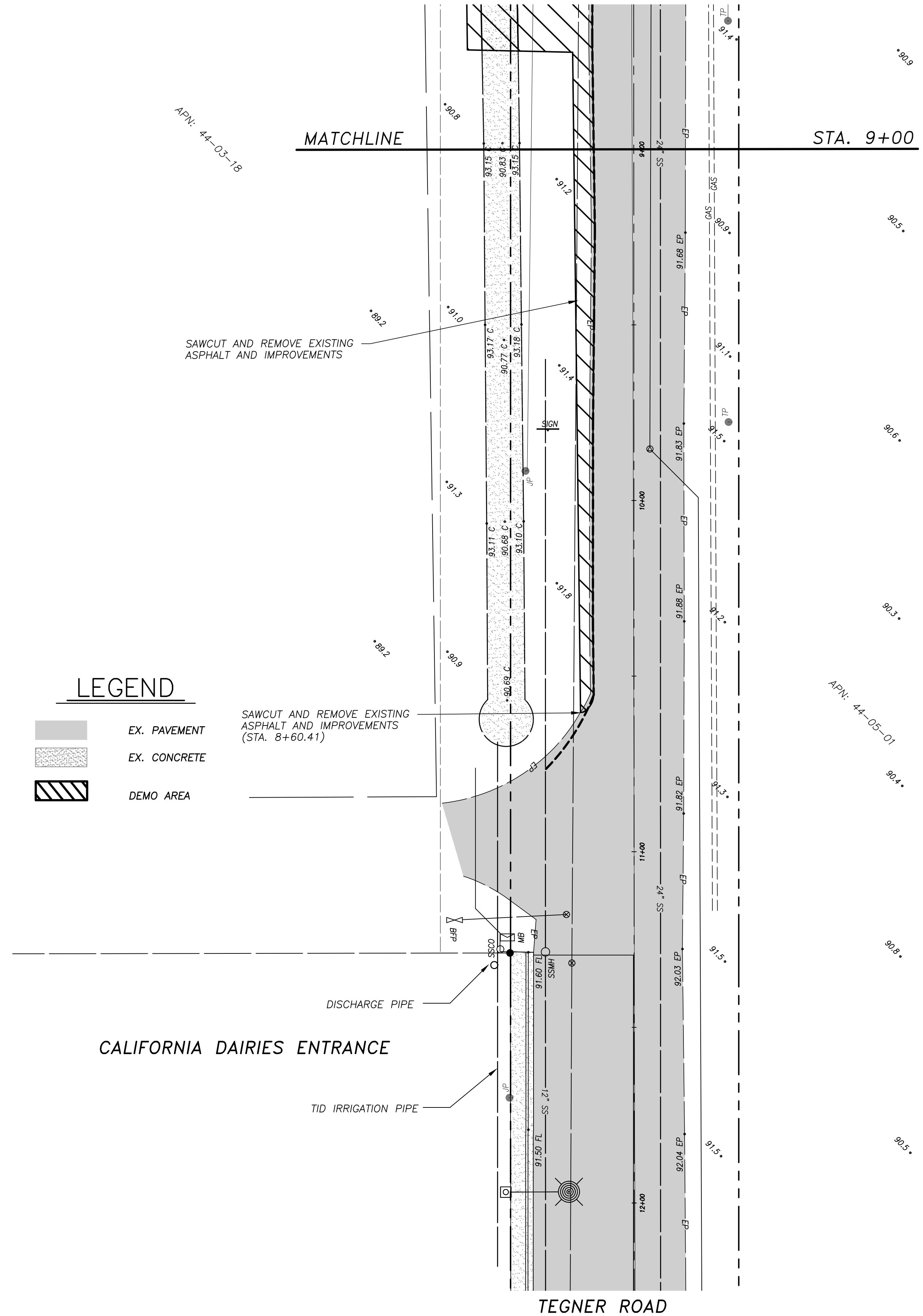
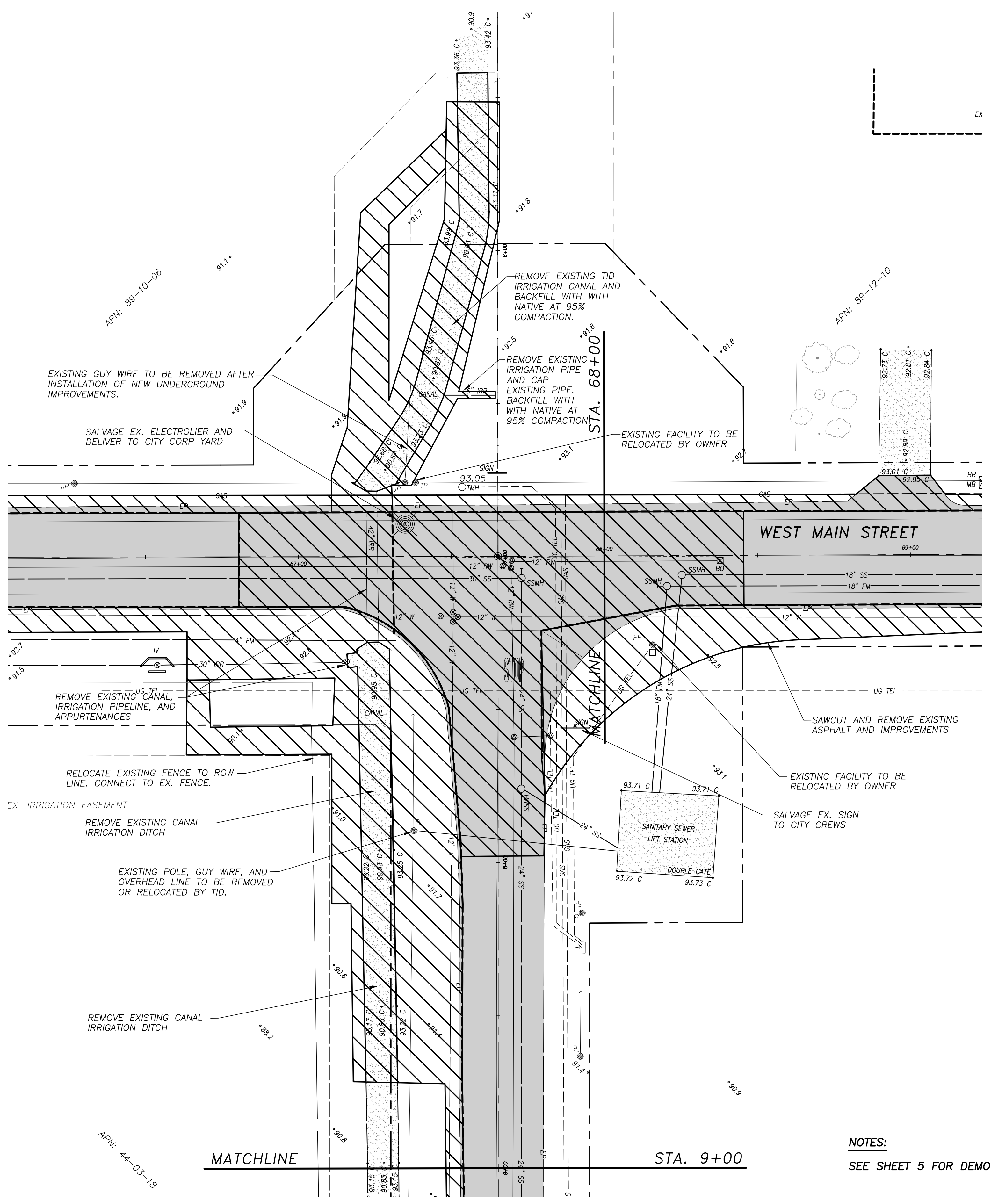
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DEMOLITION PLAN
W. MAIN STREET ~ STA. 68+00 TO STA. 81+00
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

VERIFY SCALE BAR IS 1" ON ORIGINAL DRAWING 1/4" 3/4" 1" 1/2"	DRAWN BY: RJ	SHEET
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	REV. BY: SF	6
	CH. BY: WM	of 22
	DATE: JULY 2, 2024	
	SCALE: 1" = 20'	
	14-44 BASE.dwg	



LEGEND

- EX. PAVEMENT
- EX. CONCRETE
- DEMO AREA

NOTES:
SEE SHEET 5 FOR DEMOLITION NOTES.



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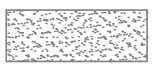



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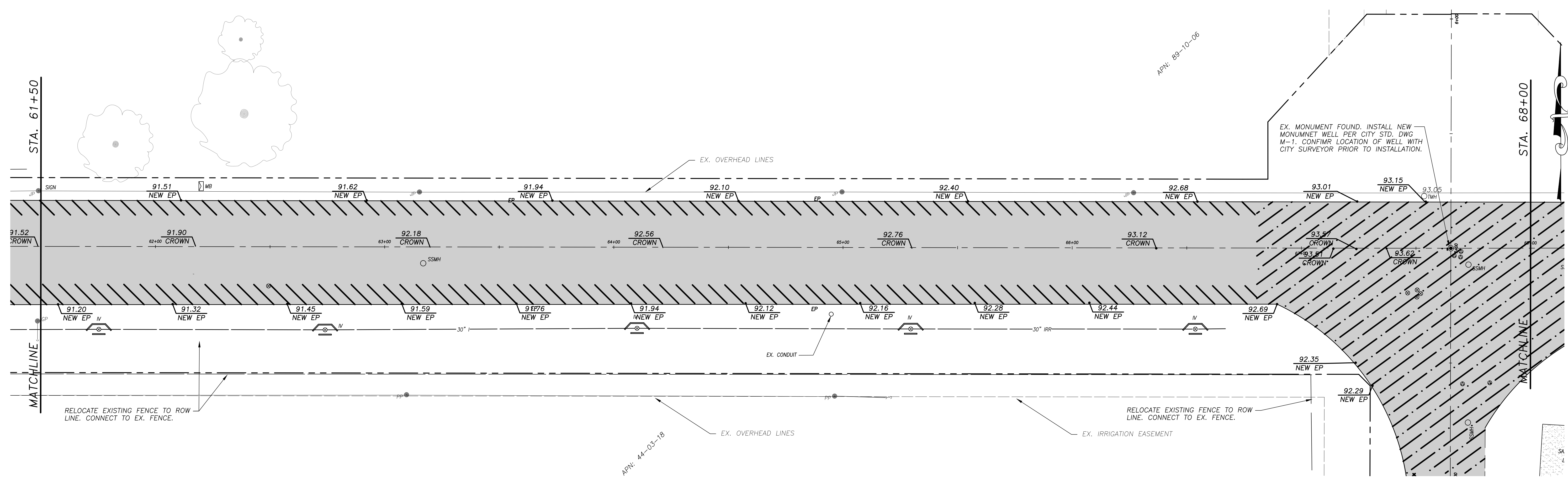
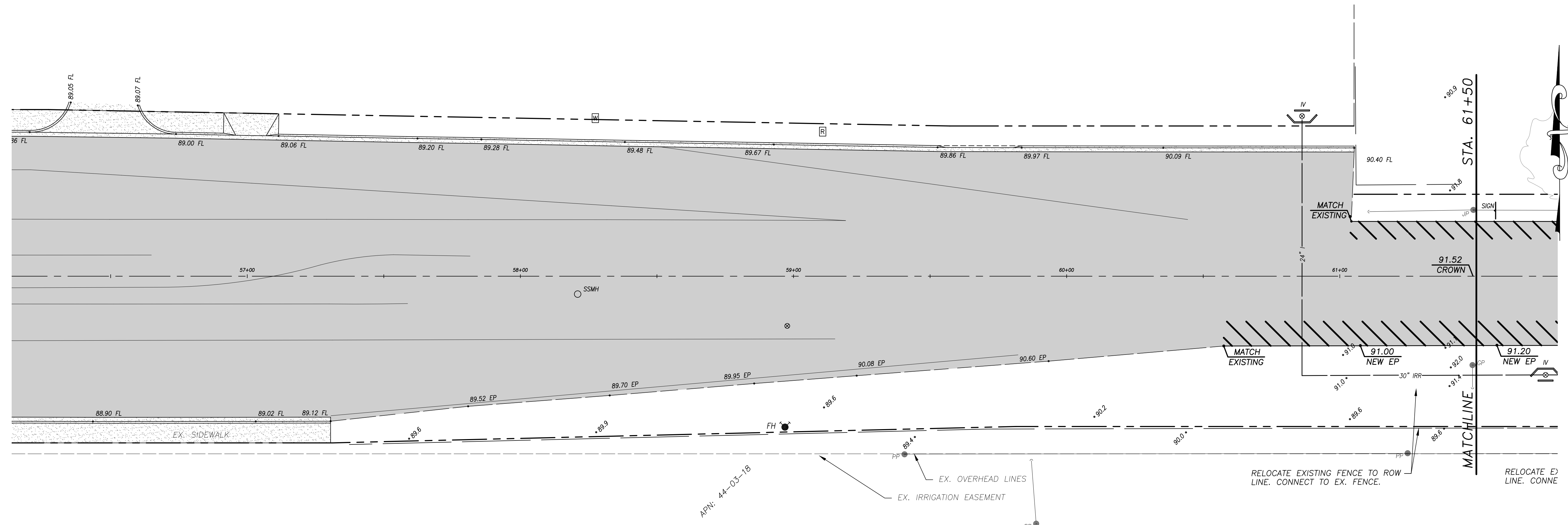
SHEET
7
of 22

NOTES:

- 1) PLACE TEMPORARY STRIPING AFTER PAVING OPERATIONS CONSISTING OF STOP BARS, LANE LINES, CENTERLINES, AND CROSSWALK CONFORMING TO THE STRIPING PLANS.
- 2) FINAL STRIPING SHALL BE PLACE SEVEN (7) CALENDAR DAYS AFTER LAST PAVING DAY.
- 3) CONTRACTOR SHALL CAT TRACK STRIPING THREE (3) CALENDAR DAYS AFTER LAST PAVING DAY.
- 4) CONTRACTOR SHALL ADJUST ALL BOXES OR VALVE COVERS TO FINISH GRADE. CONTRACTOR SHALL REPLACE ANY BOX OR COVER DAMAGED DURING CONSTRUCTION OR ADJUSTMENT AT THEIR EXPENSE. CONTRACTOR SHALL ENSURE FRAMES AND COVERS ARE STORED TOGETHER TO PREVENT MIXING AND MATCHING OF UNLIKE FRAMES AND COVERS. FRAMES AND COVERS SHALL BE ADJUSTED PER CITY STANDARD DRAWINGS. TEMPORARY AC SHALL BE PLACED AT THE END OF THE DAY.
- 5) CONTRACTOR SHALL RELOCATE FENCE PRIOR TO STARTING ANY WORK. EX. BUSINESS SHALL REMAIN SECURE DURING CONSTRUCTION.
- 6) CONTRACTOR SHALL TRENCH REPAIR UTILITIES PER CITY TRENCH ERRATA STANDARDS.
- 7) CONTRACTOR SHALL INSTALL SHOULD BACKING PER DETAIL.

LEGEND

-  PAVEMENT
-  EX. CONCRETE
-  6" HMA OVER 6" AB
-  6" HMA OVER 8" AB
-  6" HMA OVER 10" AB



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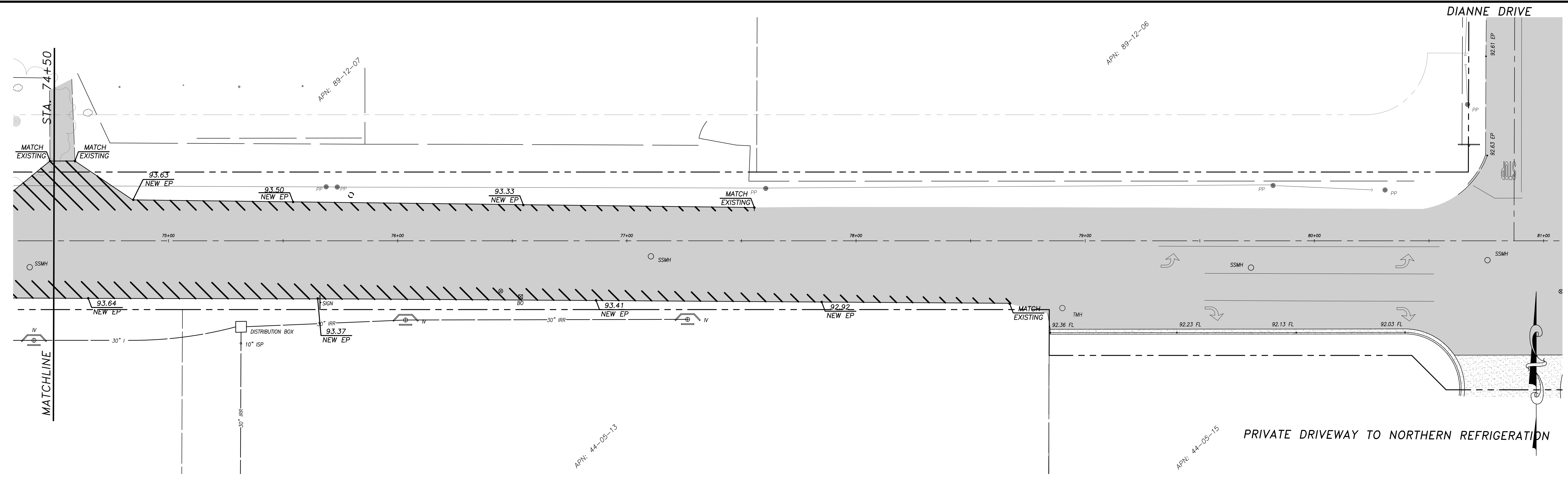
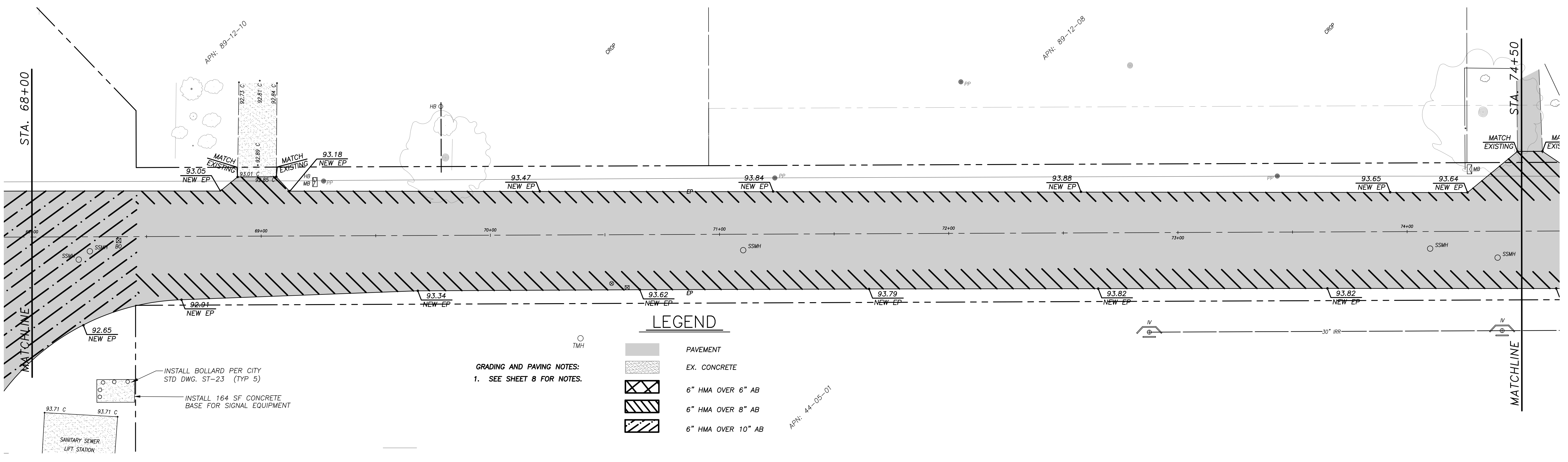
CITY OF TURLOCK
 MUNICIPAL SERVICES DEPT.
 ENGINEERING DIVISION
 156 S. BROADWAY, STE 150
 (209) 668-5520

GRADING PLAN
 W. MAIN STREET ~ STA. 55+00 TO STA. 68+00
 CAPITAL PROJECT NO. 14-44
 INTERSECTION IMPROVEMENTS AT
 W. MAIN STREET AND S. TEGNER ROAD

VERIFY SCALE
 BAR IS 1" ON ORIGINAL DRAWING
 1/4" 3/4" 1"
 1/2"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY: RJJ
 REV. BY: SF
 CH. BY: WM
 DATE: JULY 2, 2024
 SCALE: 1" = 20'
 14-44 BASE.dwg

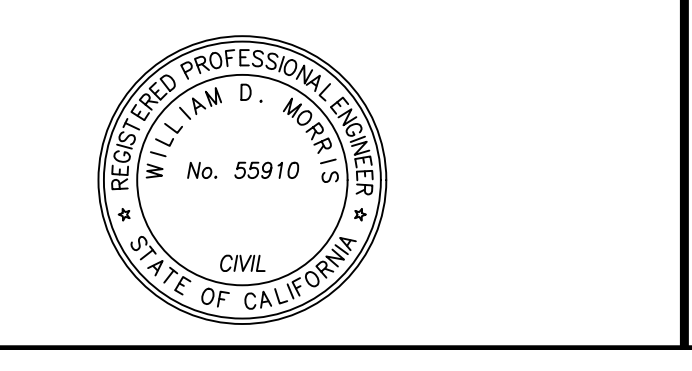
SHEET
 8
 OF 22



USA NORTH 811
 Call 811 Before You Dig
 WWW.USANORTH811.ORG

NOTE:
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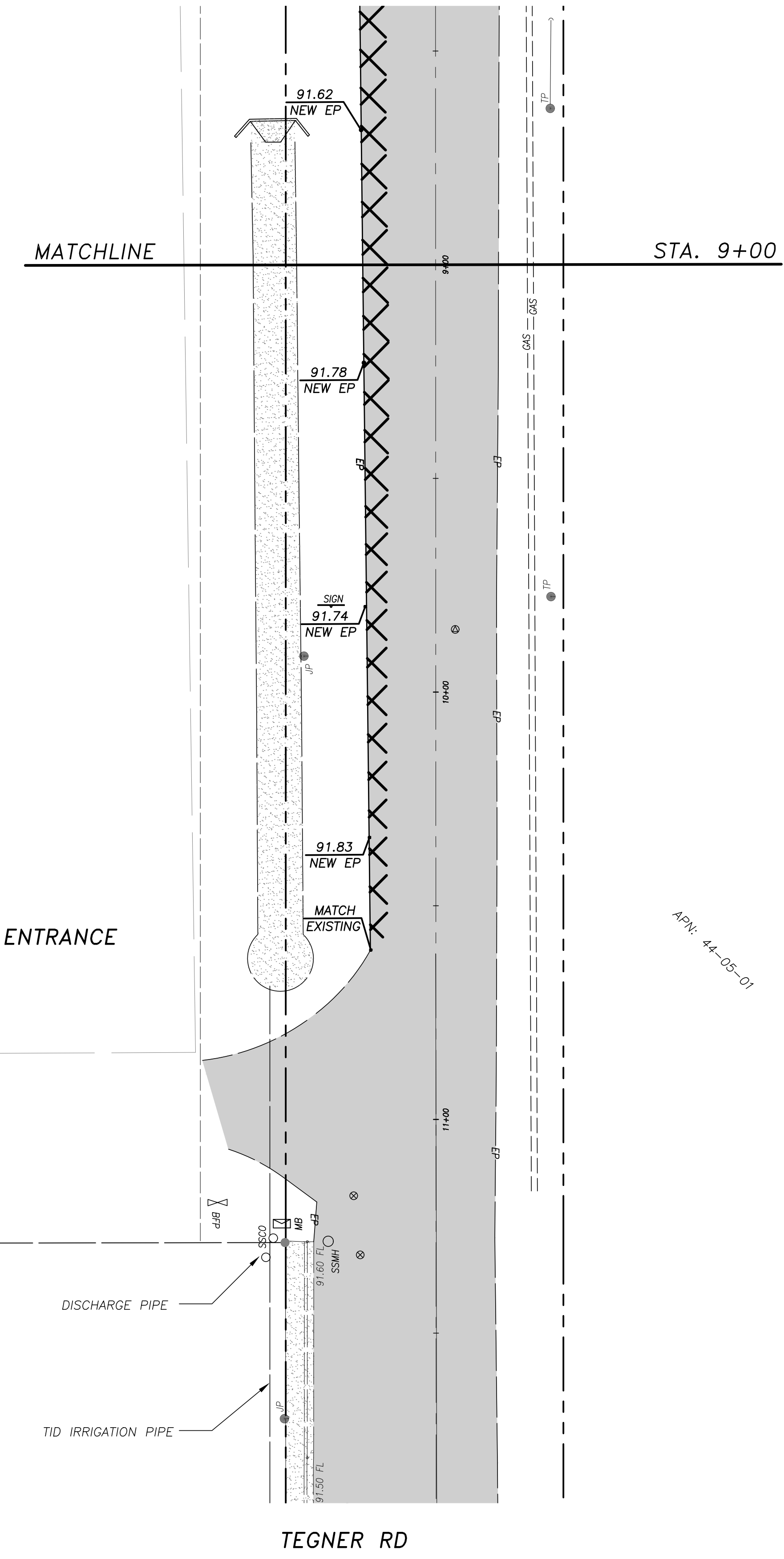
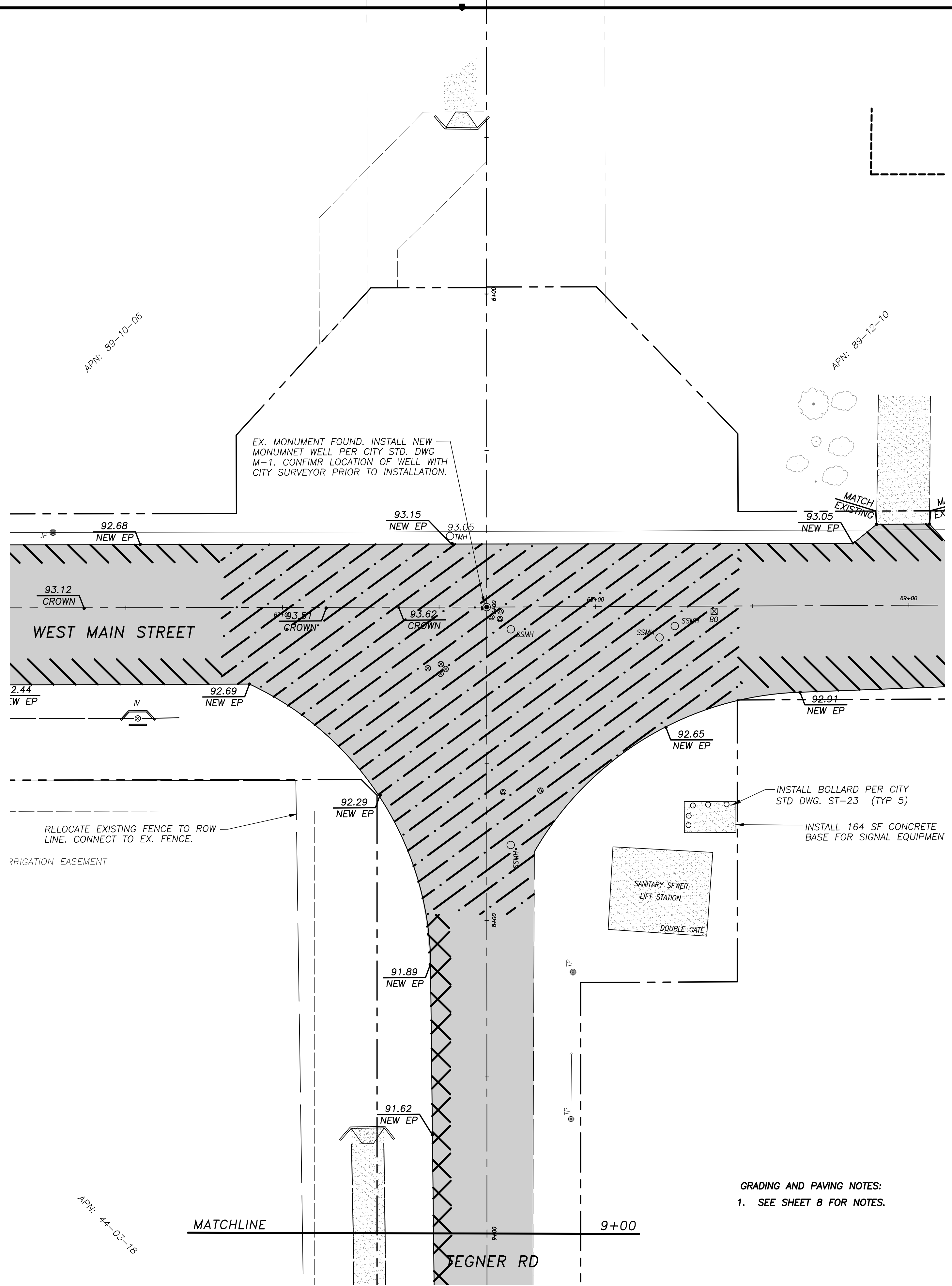
William D. Morris
 WILLIAM D. MORRIS, RCE, PLS
 CITY ENGINEER
 10/9/2024
 PLANS APPROVAL DATE



CITY OF TURLOCK
 MUNICIPAL SERVICES DEPT.
 ENGINEERING DIVISION
 156 S. BROADWAY, STE 150
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GRADING PLAN
 W. MAIN STREET ~ STA. 68+00 TO STA. 81+00
 CAPITAL PROJECT NO. 14-44
 INTERSECTION IMPROVEMENTS AT
 W. MAIN STREET AND S. TEGNER ROAD

VERIFY SCALE BAR IS 1" ON ORIGINAL DRAWING 1/4" 3/4" 1" 1/2"	DRAWN BY: RJ	SHEET
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	REV. BY: SF	9
	CH. BY: WM	OF 22
	DATE: JULY 2, 2024	
	SCALE: 1" = 20'	
	14-44 BASE.dwg	



LEGEND

	PAVEMENT
	EX. CONCRETE
	6" HMA OVER 6" AB
	6" HMA OVER 8" AB
	6" HMA OVER 10" AB

GRADING AND PAVING NOTES:
 1. SEE SHEET 8 FOR NOTES.



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 CIVIL ENGINEER
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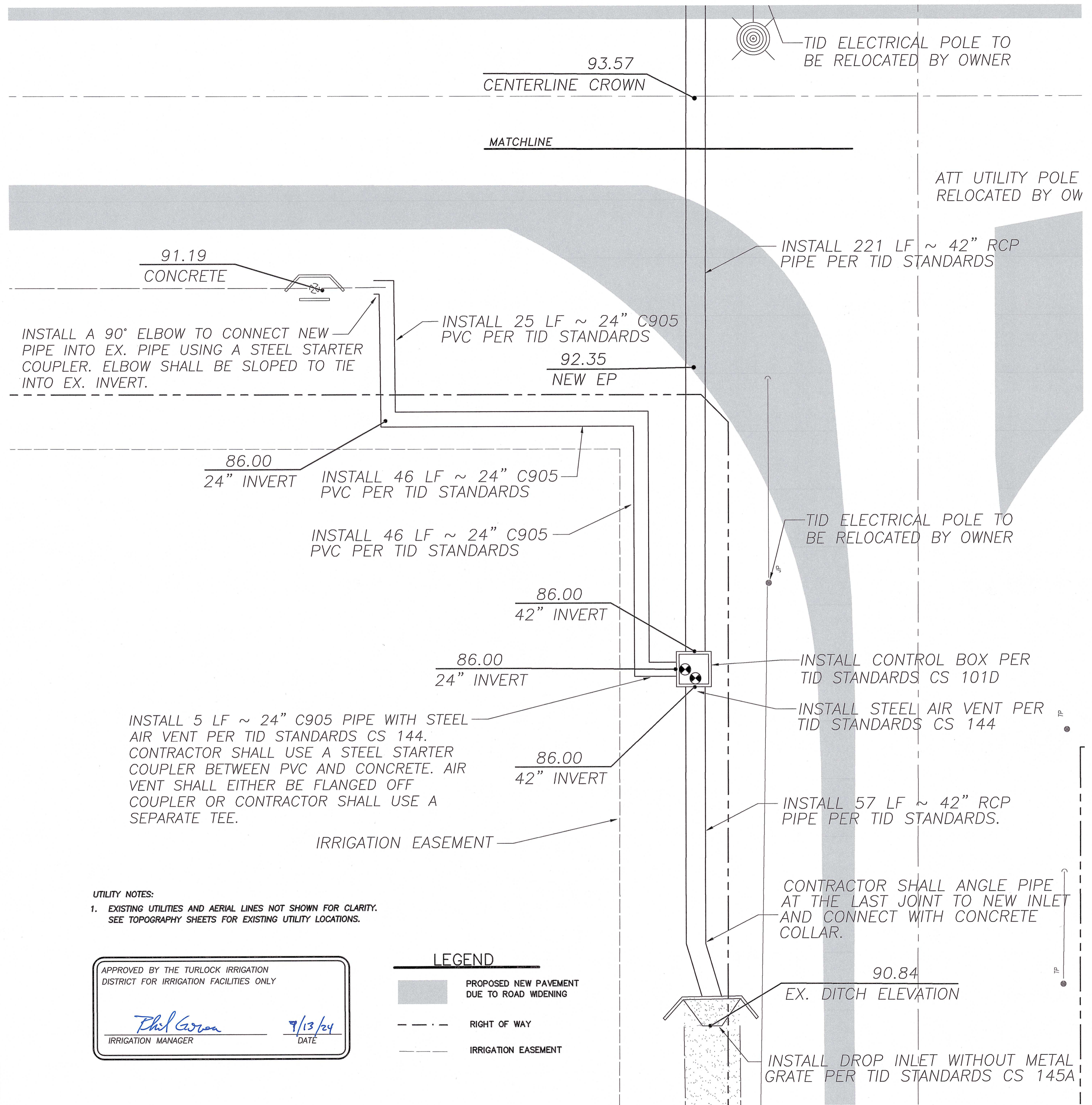
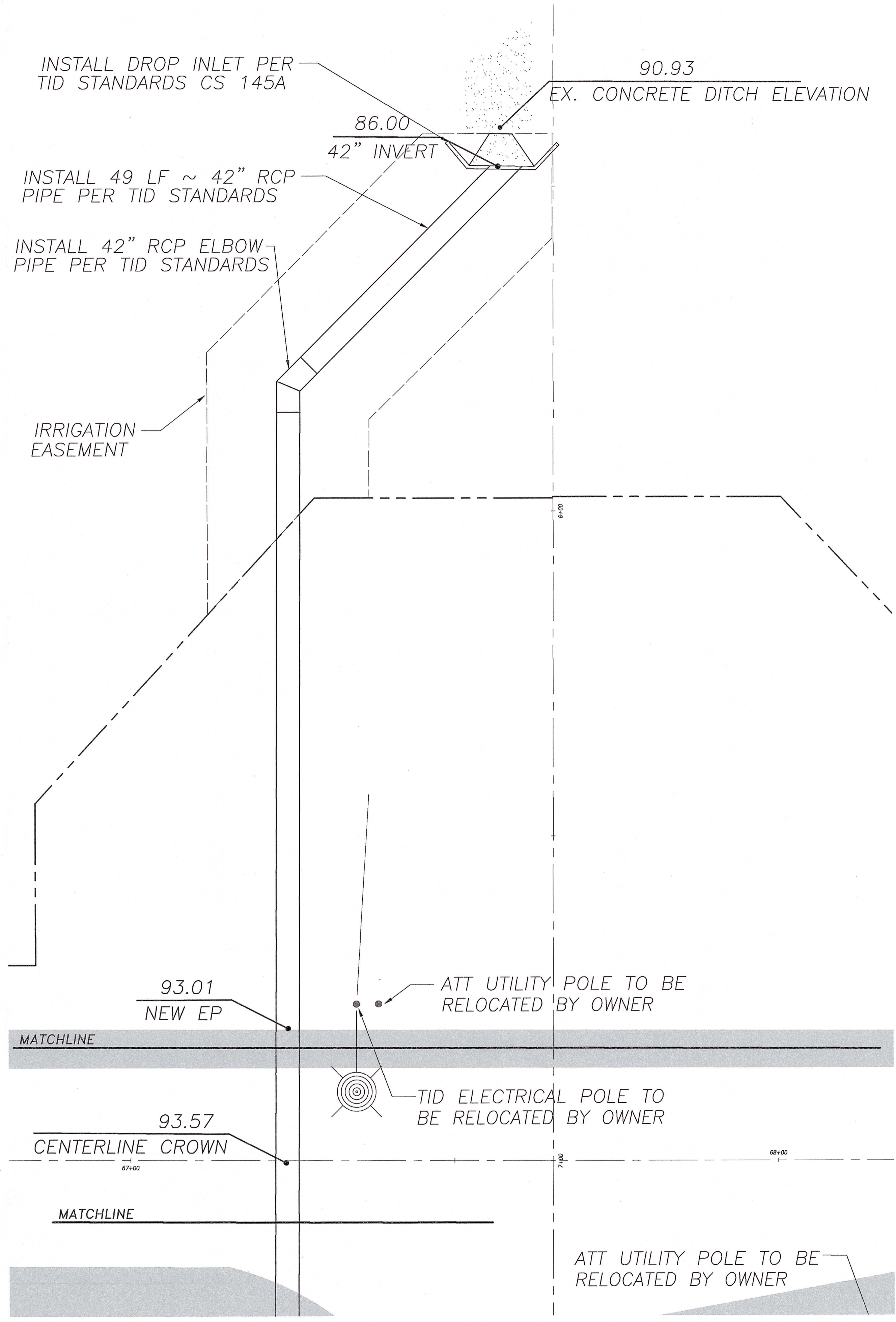
CITY OF TURLOCK
 MUNICIPAL SERVICES DEPT.
 ENGINEERING DIVISION
 156 S. BROADWAY, STE 150
 (209) 668-5520

GRADING PLAN
 S. TEGNER ROAD ~ BEGIN TO STA. 15+00
 CAPITAL PROJECT NO. 14-44
 INTERSECTION IMPROVEMENTS AT
 W. MAIN STREET AND S. TEGNER ROAD

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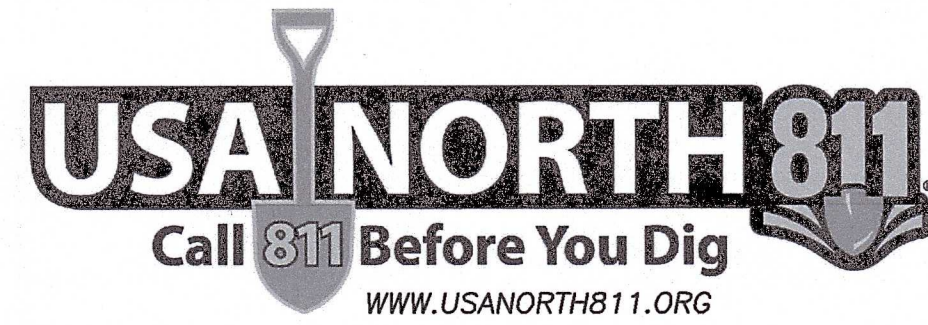
SHEET
 10
 OF 22



UTILITY NOTES:
 1. EXISTING UTILITIES AND AERIAL LINES NOT SHOWN FOR CLARITY. SEE TOPOGRAPHY SHEETS FOR EXISTING UTILITY LOCATIONS.

APPROVED BY THE TURLOCK IRRIGATION DISTRICT FOR IRRIGATION FACILITIES ONLY
Phil Corona 7/13/24
 IRRIGATION MANAGER DATE

LEGEND
 [Shaded Area] PROPOSED NEW PAVEMENT DUE TO ROAD WIDENING
 [Dashed Line] RIGHT OF WAY
 [Dotted Line] IRRIGATION EASEMENT



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William D. Morris
 WILLIAM D. MORRIS, RCE, PLS
 CITY ENGINEER
 10/9/2024
 PLANS APPROVAL DATE



CITY OF TURLOCK
 MUNICIPAL SERVICES DEPT.
 ENGINEERING DIVISION
 156 S. BROADWAY, STE 150
 (209) 668-5520

TID UTILITY PLAN
 CAPITAL PROJECT NO. 14-44
 INTERSECTION IMPROVEMENTS AT
 W. MAIN STREET AND S. TEGNER ROAD

VERIFY SCALE
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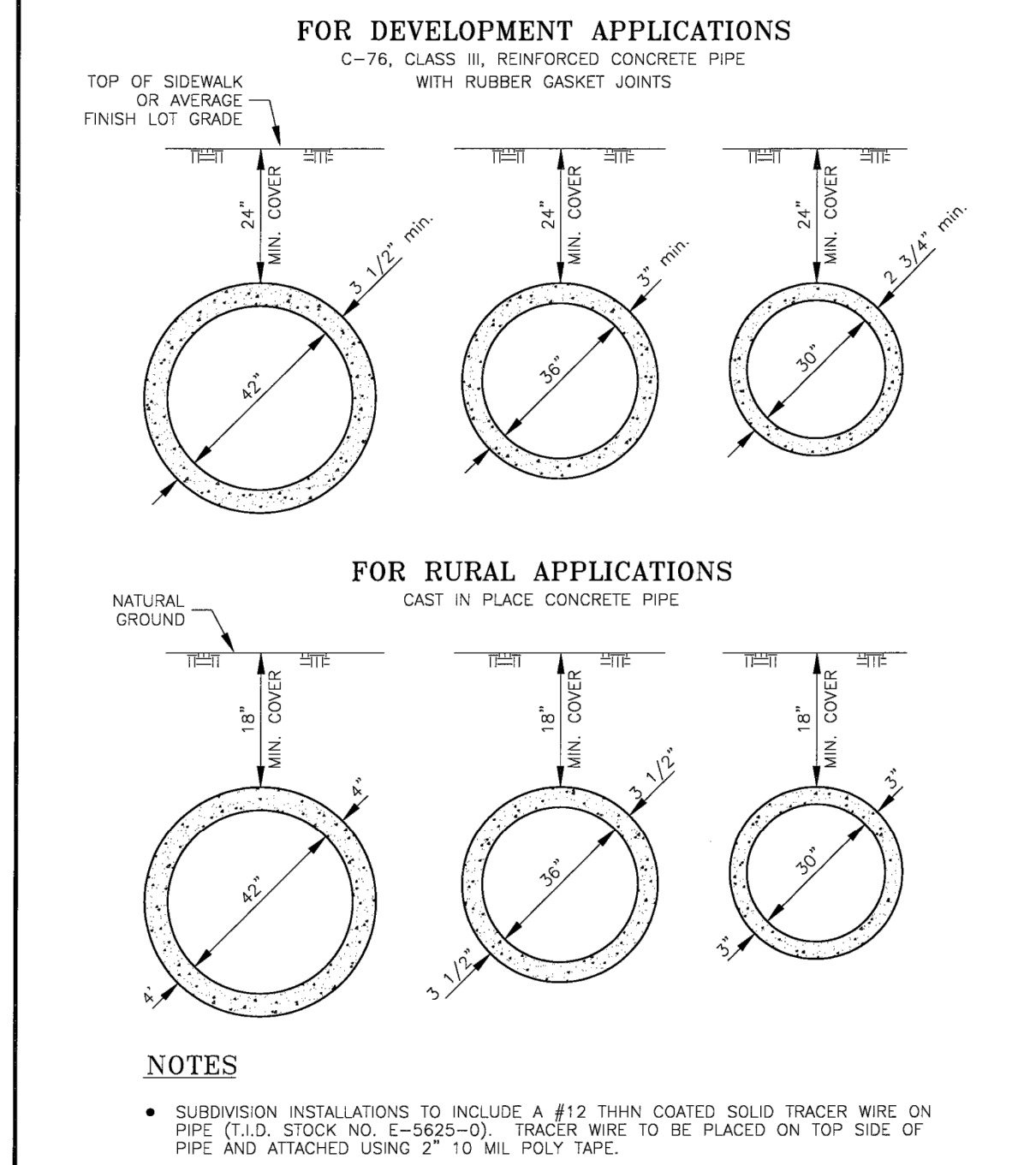
SHEET
 11
 OF 22

- At least 30 calendar days prior to the commencement of any work to remove existing irrigation facilities or to construct new irrigation facilities, the developer shall sign the irrigation improvements agreement with Turlock Irrigation District (TID) and provide the two required improvement securities and the required public liability and property damage insurance coverage.
- Developments adjoining TID canals shall construct a solid masonry or concrete wall, a minimum of six feet in height, next to the TID right-of-way as per TID Construction Standard CS 166.
- Lots adjoining irrigated ground must be graded so that the backs of lot and house pad elevations are at least 6 inches higher than the adjoining irrigated ground.
- Contractor shall verify pipe sizes and inverts prior to construction of irrigation facilities.
- Contractor must furnish a detailed construction and inspection schedule for TID written approval prior to excavation or construction within district rights-of-way or easements. Irrigation service must be maintained during the irrigation season, which is generally between March 1 through October 31, but can vary.
- TID reserves the right to construct all structures within developments. If TID constructs the structures, the developer shall provide a deposit to the TID for the estimated construction costs. The pipeline contractor shall leave an open space of 6 feet minimum and 8 feet maximum at each structure location. The opening shall be formed and finished or sawn; construction of the opening by impact methods is not allowed.
- All construction of TID irrigation facilities shall be done in accordance with the California Building Code, other recognized national standards, and TID standards and specifications. TID standards and specifications shall govern in the event of a discrepancy.
- All irrigation structure boxes shall be formed inside and out and concrete vibrated sufficiently to provide for smooth surface walls without voids and honeycombs. Waterstop (Waterstop RX or approved equal) shall be used at all cold joints and shall be installed in accordance with the instructions recommended by the manufacturer.
- Concrete shall be 3,000 psi or stronger at 28 days. Upon request by TID, concrete compressive tests on irrigation facility construction will be done by contractor at contractor's expense. It is the contractor's responsibility to deliver concrete samples to the concrete lab and send the results to TID.
- All earthwork for irrigation facilities shall achieve a minimum relative compaction of 90% in rural areas and 95% in developed areas, according to ASTM D-1557. City, County and State compaction standards may, in some cases, supersede the above standards. Upon request by TID, test results verifying this shall be furnished to the TID by any contractor engaged in this work for the TID.

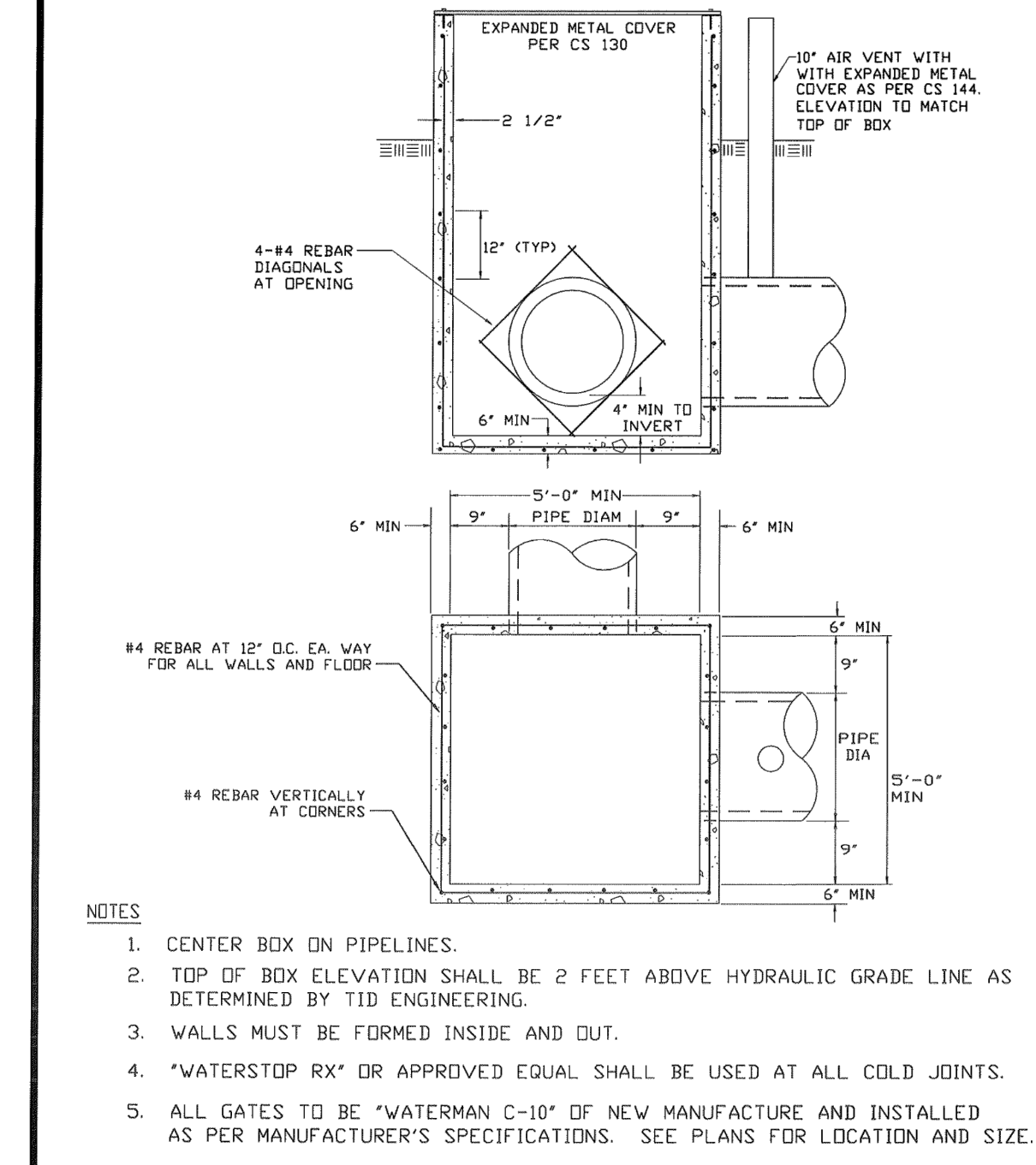
TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
WO and C&M AGM	<i>Keith Cargill</i>	CONSTRUCTION AND DEVELOPMENT STANDARD SPECIFICATIONS	
C REV NOTE 2, 6, 7, 11, & 15, ADD 18	AWV	7/10	
B COMBINE CS 050A & CS 075	MLC	4/87	
A ELIMINATE ALTERNATE DETAIL	RV	BDH	
REV DESCRIPTION	INT	CHK	RVS
	APP	DATE	
			1 OF 2
			CS 050C
			PAGE

- Prior to working on TID facilities, contractors are responsible for contacting Underground Service Alert for utility locations at 800-227-2600.
- Inspections must be requested two working days in advance. The TID's inspector shall inspect all work phases on irrigation facilities for conformance to approved engineering plans and TID specifications. Reinforcing shall not be encased in concrete without prior TID inspection and approval. Likewise, concrete structures and pipelines shall not be covered with earth prior to TID inspection and approval.
- Control structures and access manholes shall be constructed adjacent to public rights-of-way. If no public access is available, an access easement from a public right-of-way, a minimum of 12 feet in width, shall be provided to all control structures and access manholes. Access easements to control structures shall be free of encroachments, accommodate vehicle access, and must have an all weather surface.
- Fences within irrigation easements must be constructed to allow access to irrigation facilities, as directed by TID.
- All irrigation facilities shall pass the pressure test described in Caltrans Standard Specification 65-1.08. Upon request by the TID, the test will be performed by contractor at contractor's expense. The tested head shall be the maximum operational pressure of the line which will be supplied by the TID. The testing shall be observed and certified by a licensed Civil Engineer.
- Irrigation facilities which are determined, by TID, as no longer needed shall be removed prior to development.
- All pipeline installations shall include a #12 THHN coated solid tracer wire (TID Stock No. E-5625-0) on pipe. Tracer wire to be placed on top side of pipe and attached using 2" 10 mil poly tape or acceptable alternative.
- Used materials, rejects, misfits or seconds are not acceptable for use on irrigation facilities.

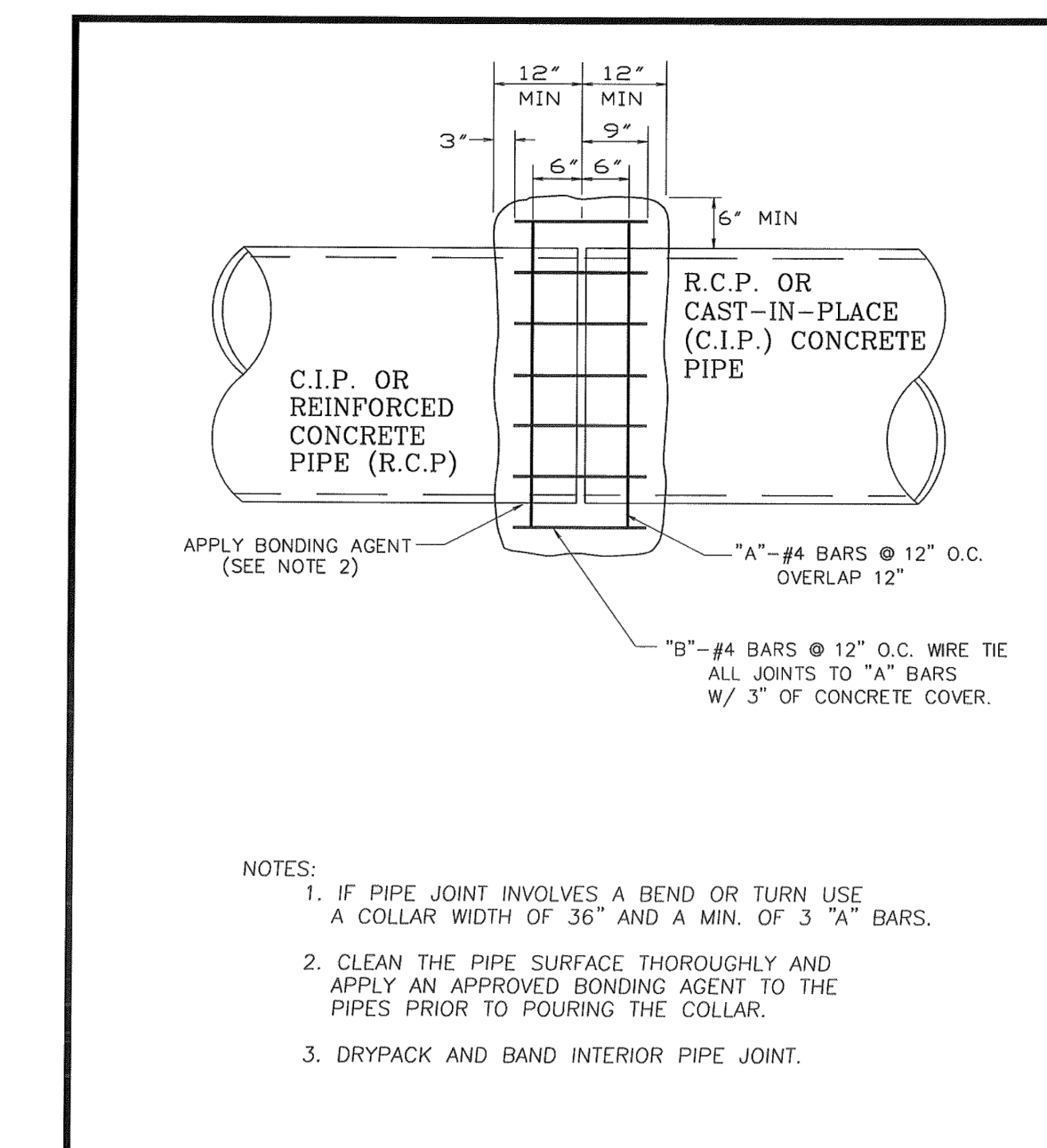
TURLOCK IRRIGATION DISTRICT		CONSTRUCTION AND DEVELOPMENT STANDARD SPECIFICATIONS	
WO and C&M AGM	<i>Keith Cargill</i>	IRRIGATION CONSTRUCTION STANDARDS	
C STDS. COM. APPROVAL	AWV	7/10	
B COMBINE CS 050A & CS 075	MLC	4/87	
A ELIMINATE ALTERNATE DETAIL	RV	BDH	
REV DESCRIPTION	INT	CHK	RVS
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			CS 050C
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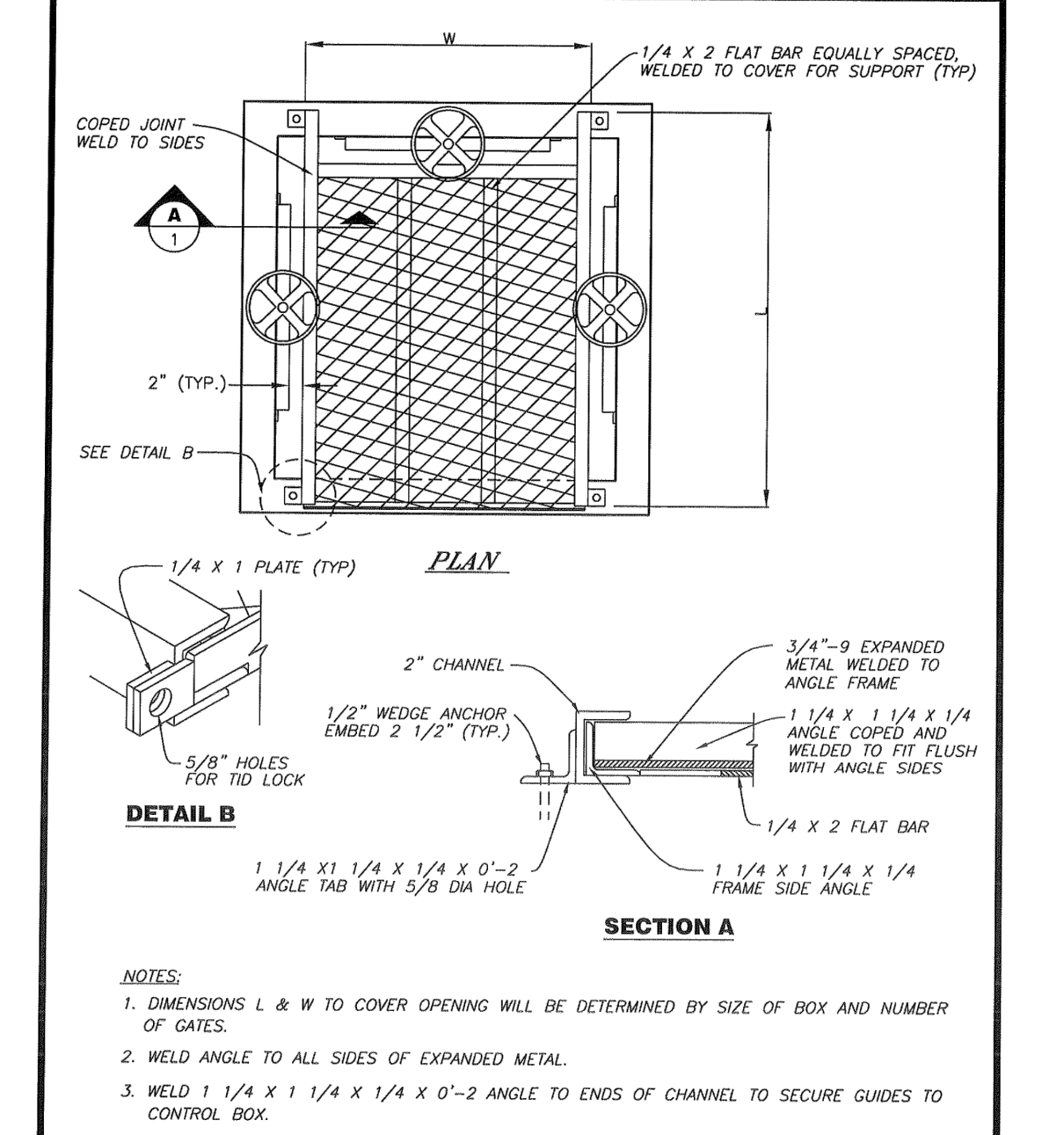
TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
WO and C&M AGM	<i>Keith Cargill</i>	CONCRETE PIPE DETAIL	
C STDS. COM. APPROVAL	AWV	7/10	
B COMBINE CS 050A & CS 075	MLC	4/87	
A ELIMINATE ALTERNATE DETAIL	RV	BDH	
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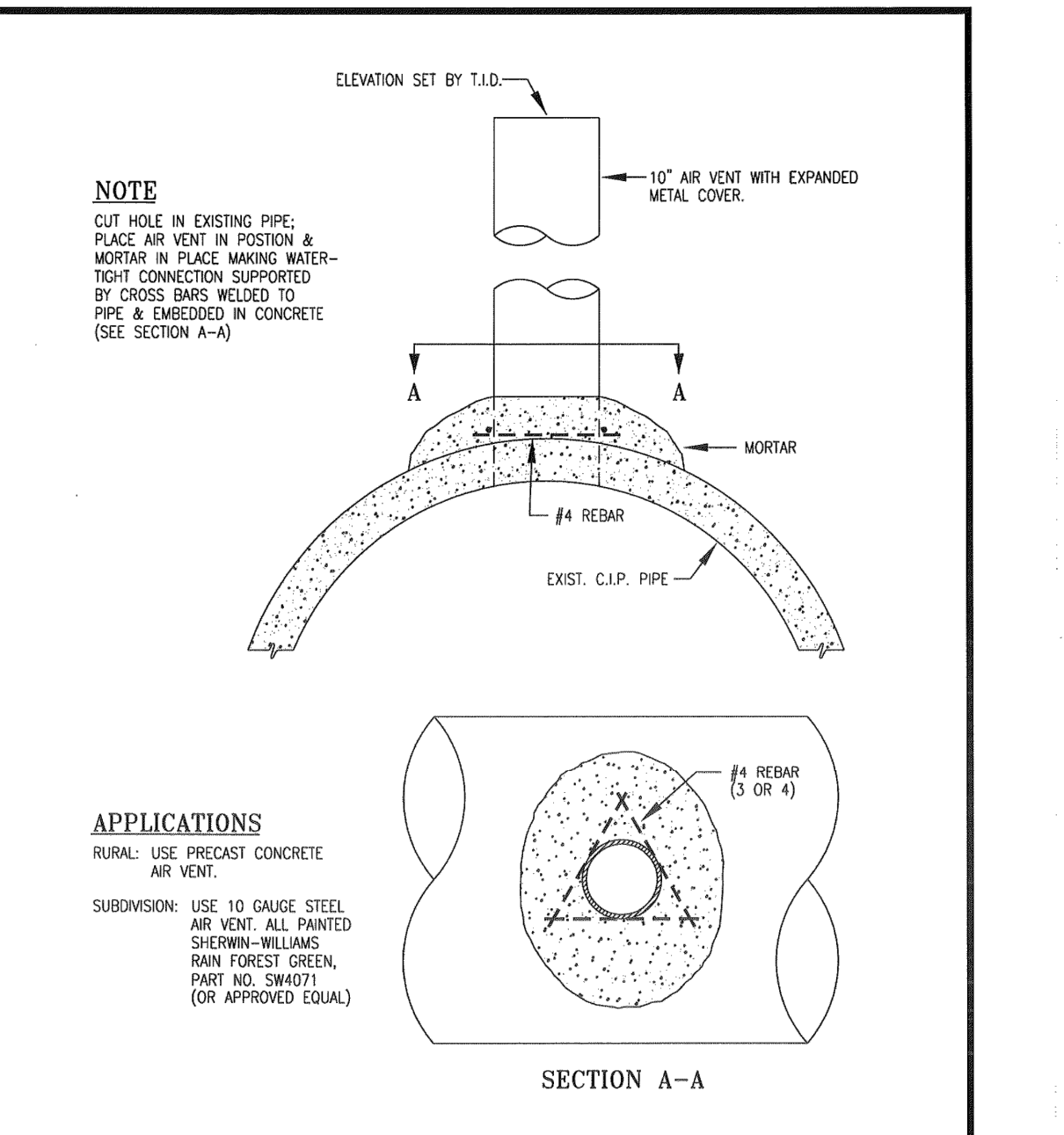
TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
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C REV NOTE 2, 4, & 5, 6" WALLS	AWV	7/10	
B COMBINE CS 101 & SS107	MLC	6/01	
A EXP. METAL COVER	RV	BDH	
MIN. BOX DIMENSION	RV	BDH	
INITIAL ISSUE	SEB	12/86	
REV DESCRIPTION	INT	CHK	RVS
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			CS 101D
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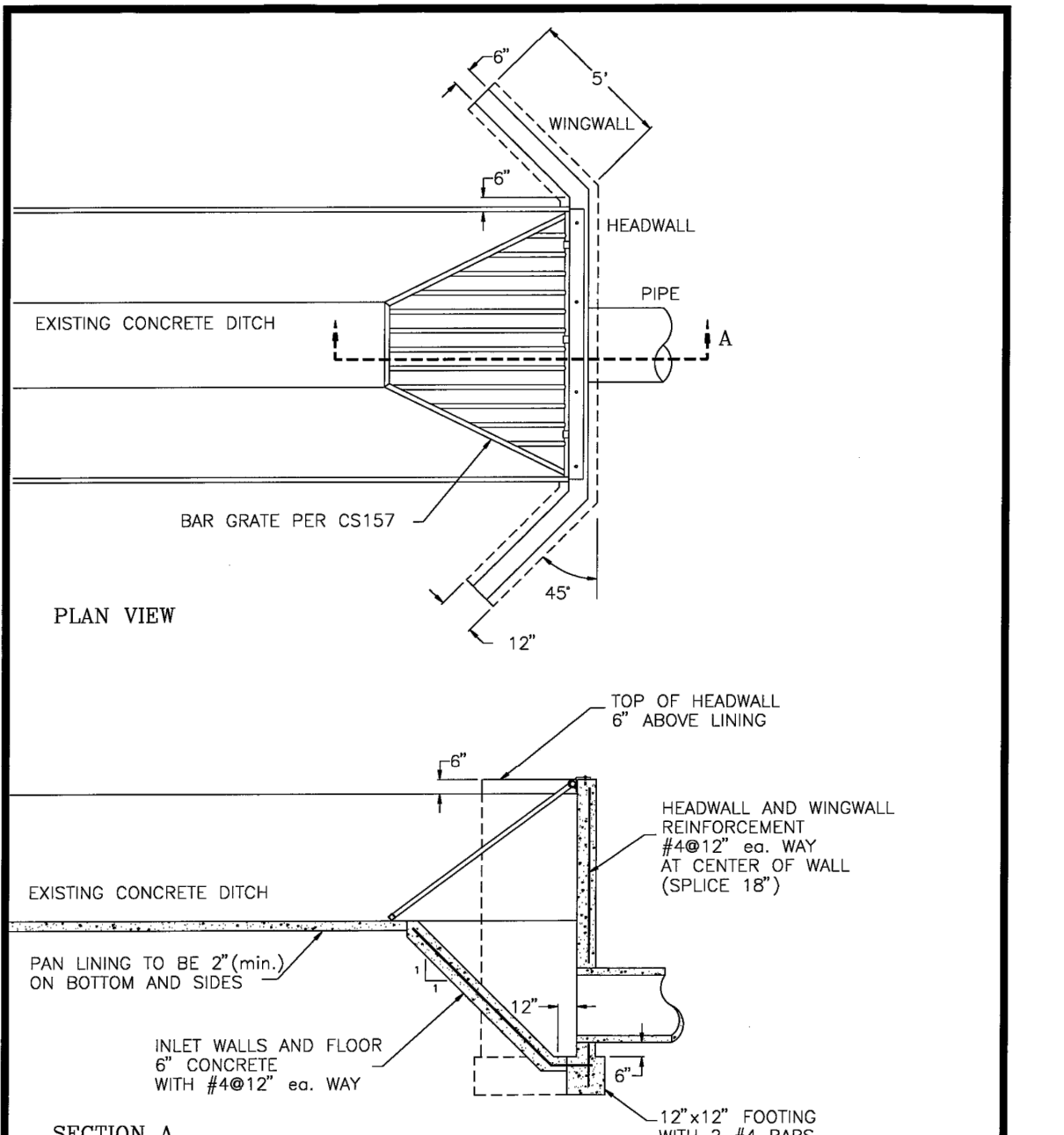
TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
WO and C&M AGM	<i>Keith Cargill</i>	CONCRETE COLLAR FOR IRRIGATION PIPELINES	
B GENERAL REVISION	AWV	7/10	
A WIRE TIE JOINTS	AWV	7/10	
REV DESCRIPTION	INT	CHK	RVS
	APP	DATE	
			1 OF 1
			CS 102B
			PAGE



TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
WO and C&M AGM	<i>Keith Cargill</i>	EXPANDED METAL COVER FOR CONTROL BOX	
B CHANGE PAINT SPEC	AWV	7/10	
A REINFORCING WAS SHOT; ADD APPLICATION NOTE	AWV	7/10	
INITIAL ISSUE	JAS	BDH	
REV DESCRIPTION	INT	CHK	RVS
	APP	DATE	
			1 OF 2
			CS 130C
			PAGE



TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
WO and C&M AGM	<i>Keith Cargill</i>	AIR VENT INSTALLATION	
B CHANGE PAINT SPEC	AWV	7/10	
A REINFORCING WAS SHOT; ADD APPLICATION NOTE	AWV	7/10	
INITIAL ISSUE	JAS	BDH	
REV DESCRIPTION	INT	CHK	RVS
	APP	DATE	
			1 OF 1
			CS 144B
			PAGE



TURLOCK IRRIGATION DISTRICT		IRRIGATION CONSTRUCTION STANDARDS	
WO and C&M AGM	<i>Keith Cargill</i>	DROP INLET	
B STDS. COM. APPROVAL	AWV	7/10	
A REVISED BAR GRATE REINFORCED FROM SIDES	AWV	7/10	
INITIAL ISSUE	JAS	BDH	
REV DESCRIPTION	INT	CHK	RVS
	APP	DATE	
			1 OF 1
			CS 145 A
			PAGE



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William D. Morris, RCE, PLS
WILLIAM D. MORRIS, RCE, PLS
CITY ENGINEER
10/9/2024
PLANS APPROVAL DATE



CITY OF TURLOCK
MUNICIPAL SERVICES DEPT.
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
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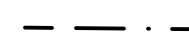
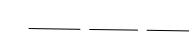
TID CONSTRUCTION DETAILS
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

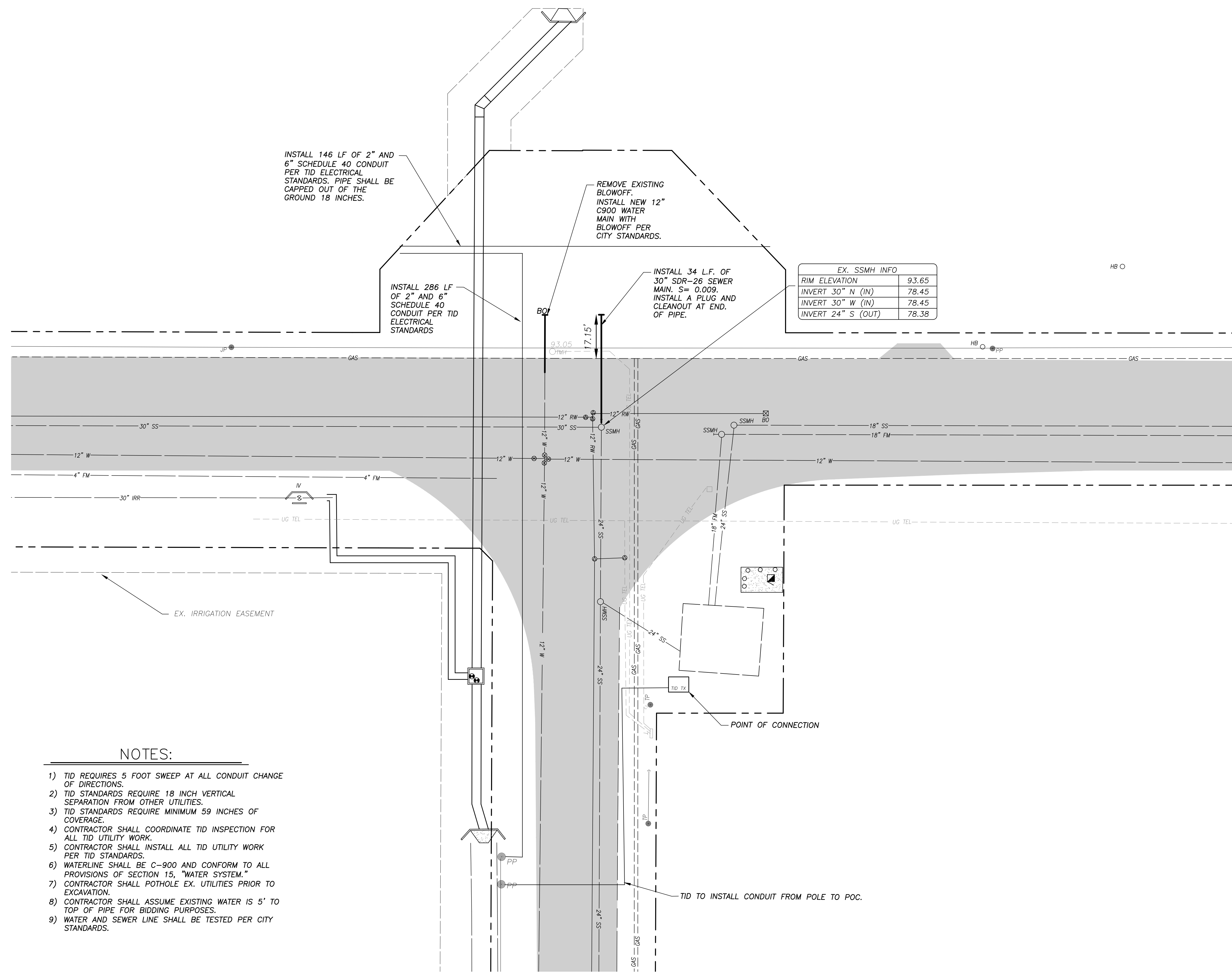
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SCALE:

SHEET
12
of 22
14-44 BASE.dwg

LEGEND

-  PAVEMENT
-  RIGHT OF WAY
-  TID EASEMENT



EX. SSMH INFO	
RIM ELEVATION	93.65
INVERT 30" N (IN)	78.45
INVERT 30" W (IN)	78.45
INVERT 24" S (OUT)	78.38

NOTES:

- 1) TID REQUIRES 5 FOOT SWEEP AT ALL CONDUIT CHANGE OF DIRECTIONS.
- 2) TID STANDARDS REQUIRE 18 INCH VERTICAL SEPARATION FROM OTHER UTILITIES.
- 3) TID STANDARDS REQUIRE MINIMUM 59 INCHES OF COVERAGE.
- 4) CONTRACTOR SHALL COORDINATE TID INSPECTION FOR ALL TID UTILITY WORK.
- 5) CONTRACTOR SHALL INSTALL ALL TID UTILITY WORK PER TID STANDARDS.
- 6) WATERLINE SHALL BE C-900 AND CONFORM TO ALL PROVISIONS OF SECTION 15, "WATER SYSTEM."
- 7) CONTRACTOR SHALL POT HOLE EX. UTILITIES PRIOR TO EXCAVATION.
- 8) CONTRACTOR SHALL ASSUME EXISTING WATER IS 5' TO TOP OF PIPE FOR BIDDING PURPOSES.
- 9) WATER AND SEWER LINE SHALL BE TESTED PER CITY STANDARDS.



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UTILITY PLAN

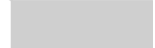
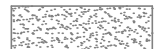
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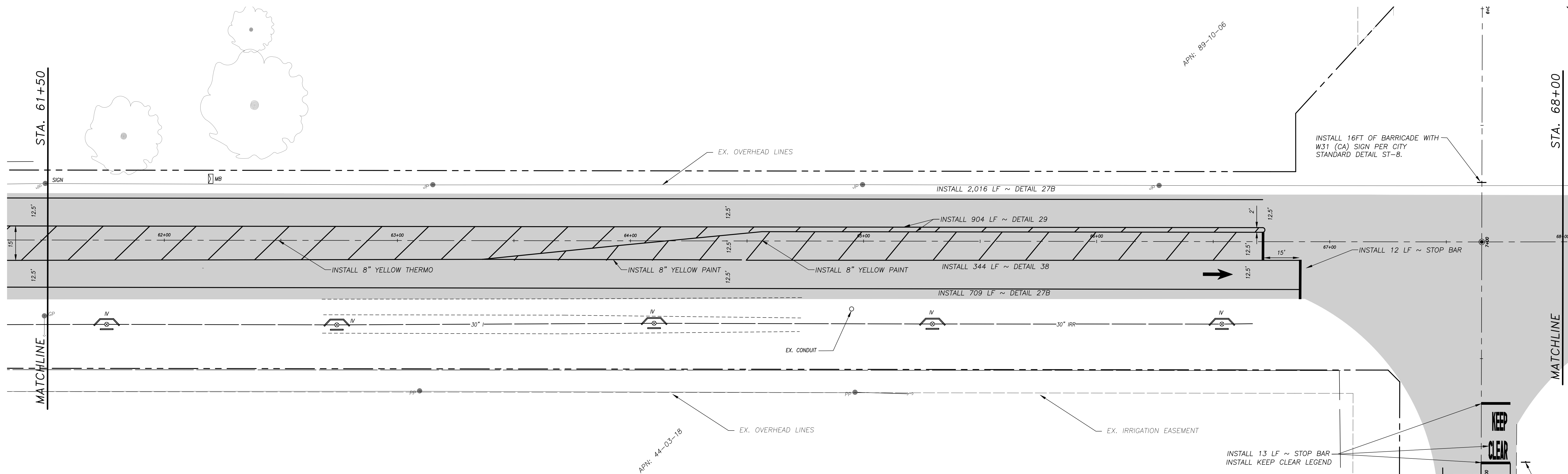
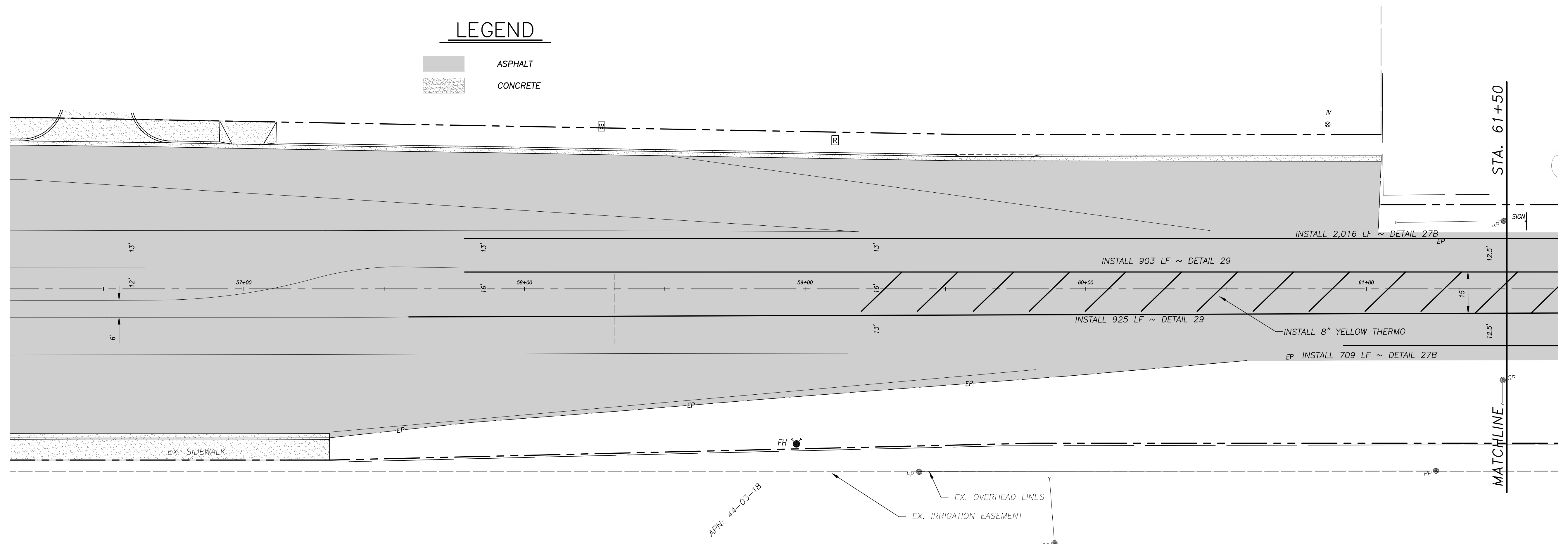
SHEET
13
OF 22

LEGEND

-  ASPHALT
-  CONCRETE

NOTES:

- 1) CONTRACTOR SHALL REPLACE ALL REGULATORY AND WARNING SIGNS WITH HIGH INTENSITY PRISMATIC GRADE SIGNS AS SHOWN ON THE PLANS. ALL NEW SIGNS SHALL BE SAME DIMENSION OR SMALLEST LEGAL SIZE, WHICHEVER IS LARGER. USE EX. POST IF APPLICABLE.
- 2) ALL PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.
- 3) PAVEMENT MARKERS SHALL BE PLASTIC. CERAMIC MARKERS WILL NOT BE ALLOWED.
- 4) PLACE TEMPORARY STRIPING AFTER PAVING OPERATIONS CONSISTING OF STOP BARS, LANE LINES, CENTERLINES, AND CROSSWALK CONFORMING TO THE STRIPING PLANS.
- 5) FINAL STRIPING SHALL BE PLACE SEVEN (7) CALENDAR DAYS AFTER LAST PAVING DAY.
- 6) CONTRACTOR SHALL CAT TRACK STRIPING THREE (3) CALENDAR DAYS AFTER LAST PAVING DAY.



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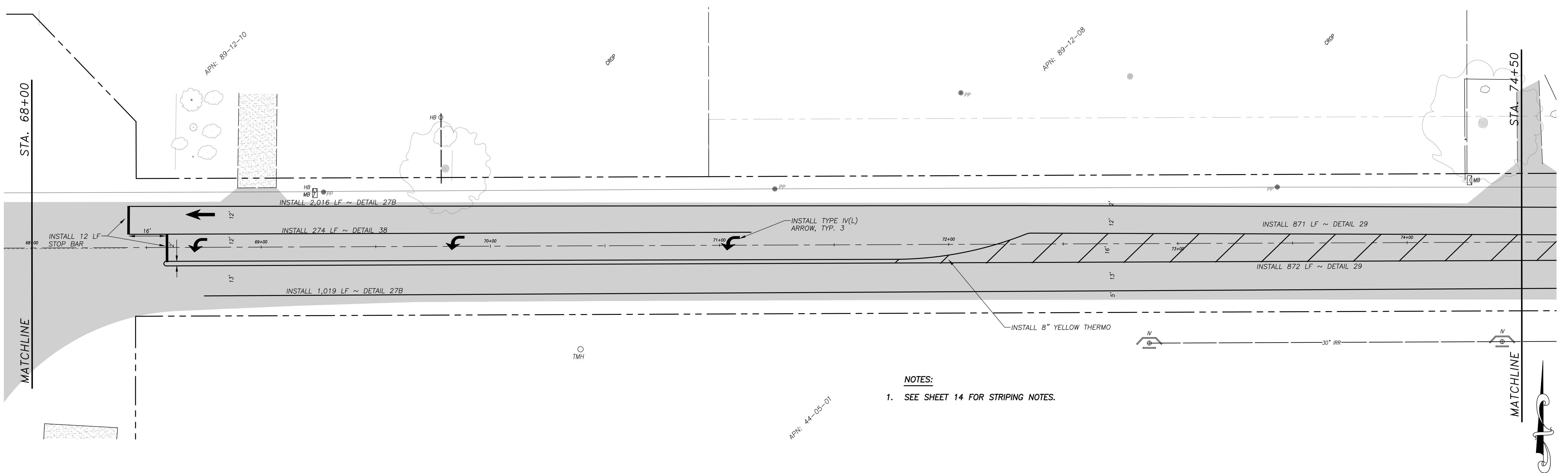
CITY OF TURLOCK
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STRIPING AND SIGN PLAN
W. MAIN STREET ~ STA. 55+00 TO STA. 68+00
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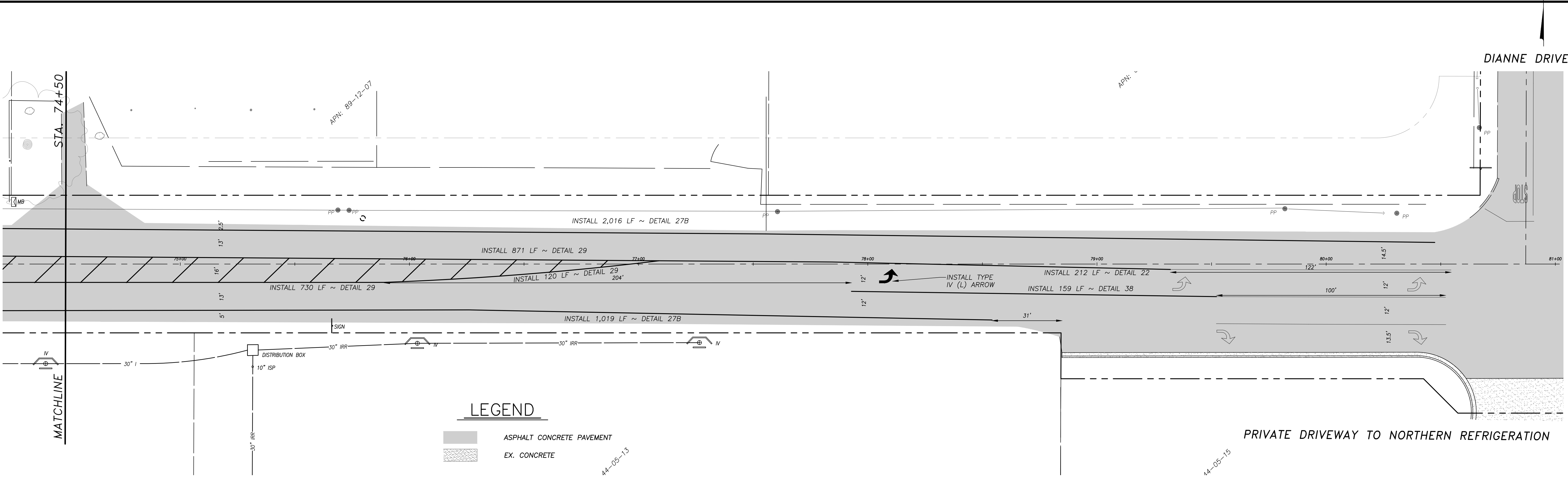
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SHEET
14
of 22



NOTES:
 1. SEE SHEET 14 FOR STRIPING NOTES.



LEGEND

-  ASPHALT CONCRETE PAVEMENT
-  EX. CONCRETE



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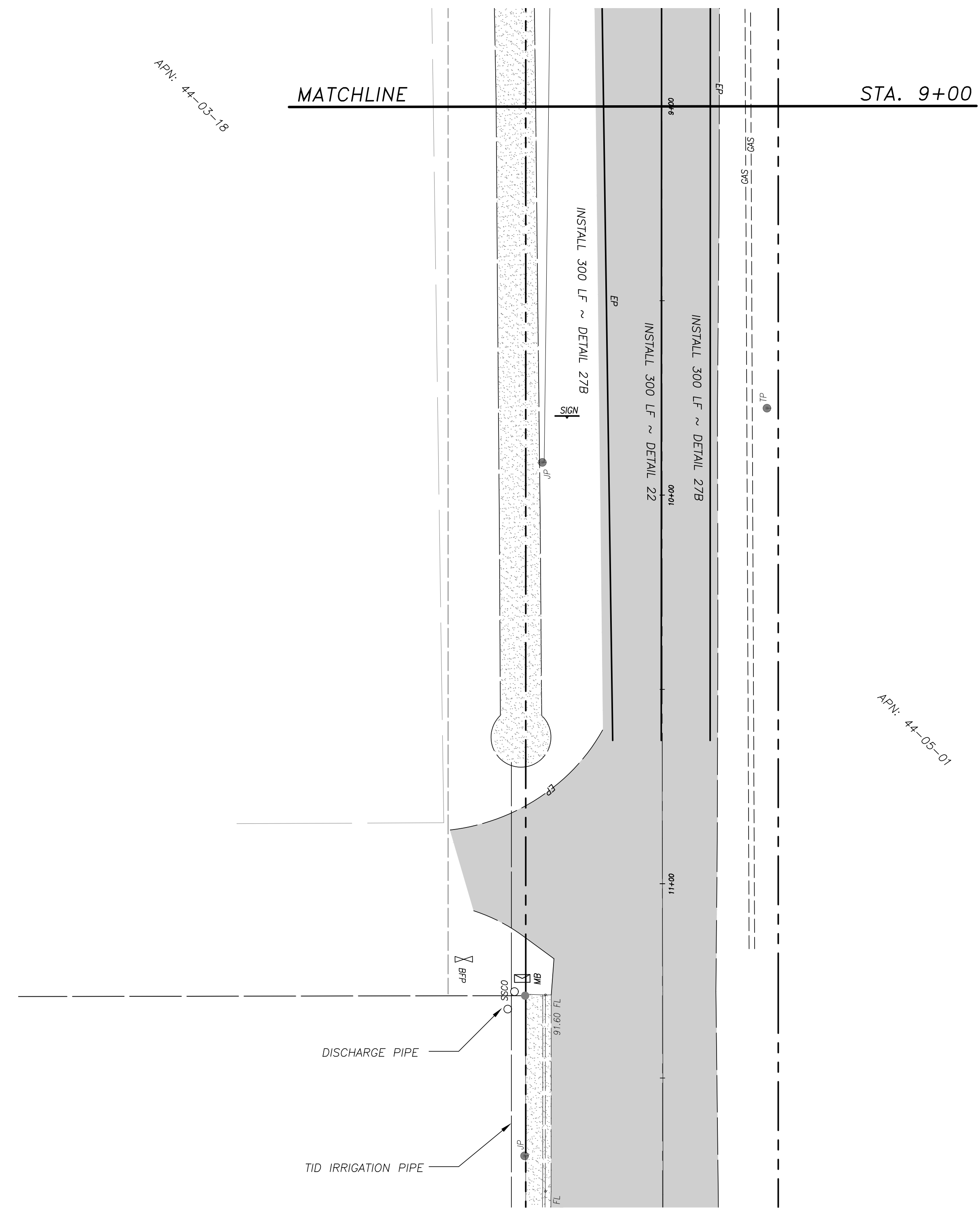
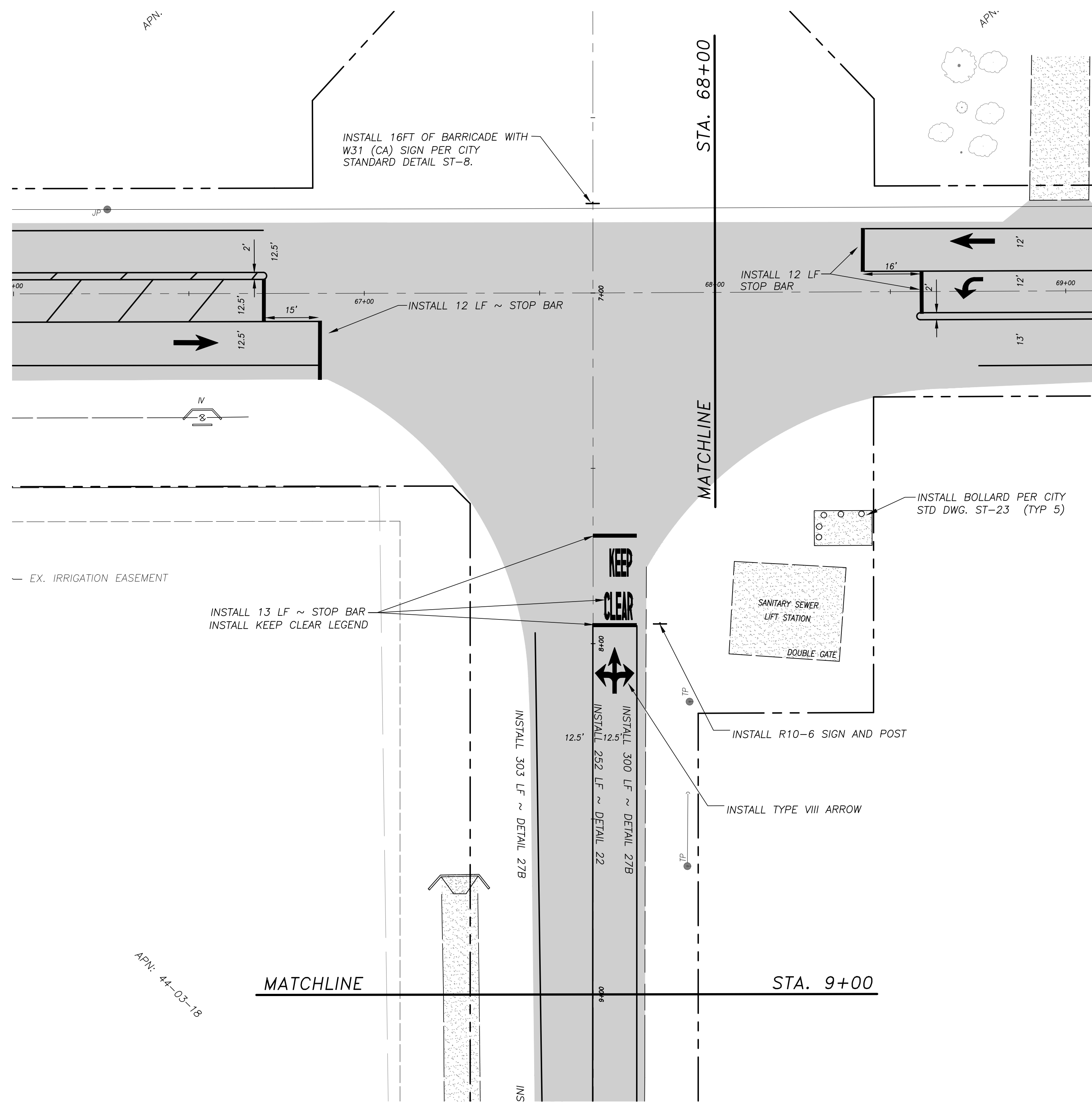
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STRIPING AND SIGN PLAN
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SHEET
 15
 OF 22



- NOTES:**
- SEE SHEET 14 FOR STRIPING NOTES.

LEGEND

- PAVEMENT
- EX. CONCRETE



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WILLIAM D. MORRIS, RCE, PLS
CITY ENGINEER
10/9/2024
PLANS APPROVAL DATE



CITY OF TURLOCK
MUNICIPAL SERVICES DEPT.
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

STRIPING AND SIGN PLAN
S. TEGNER ROAD ~ BEGIN TO STA. 11+50
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

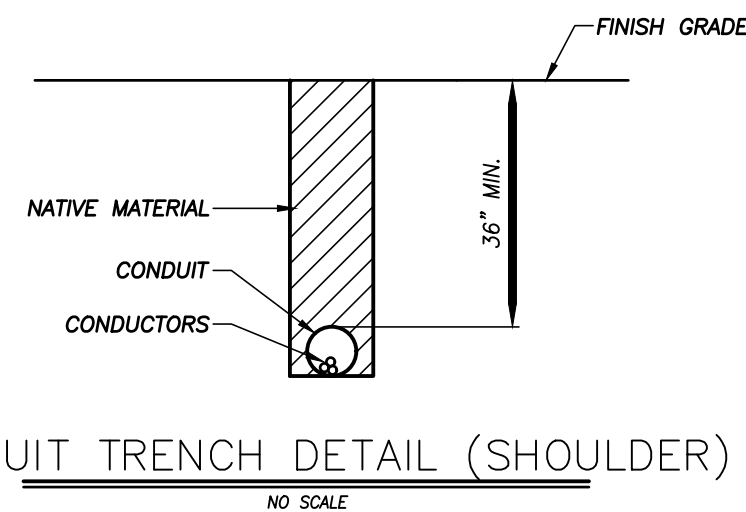
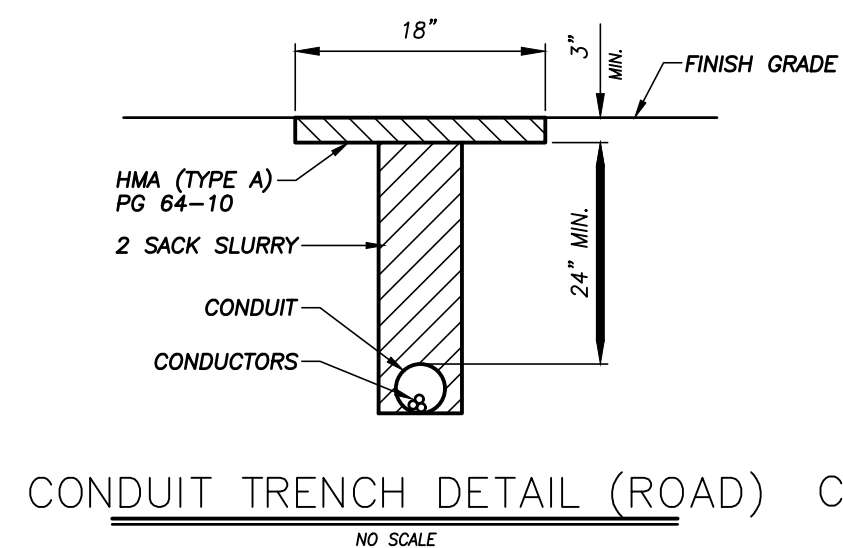
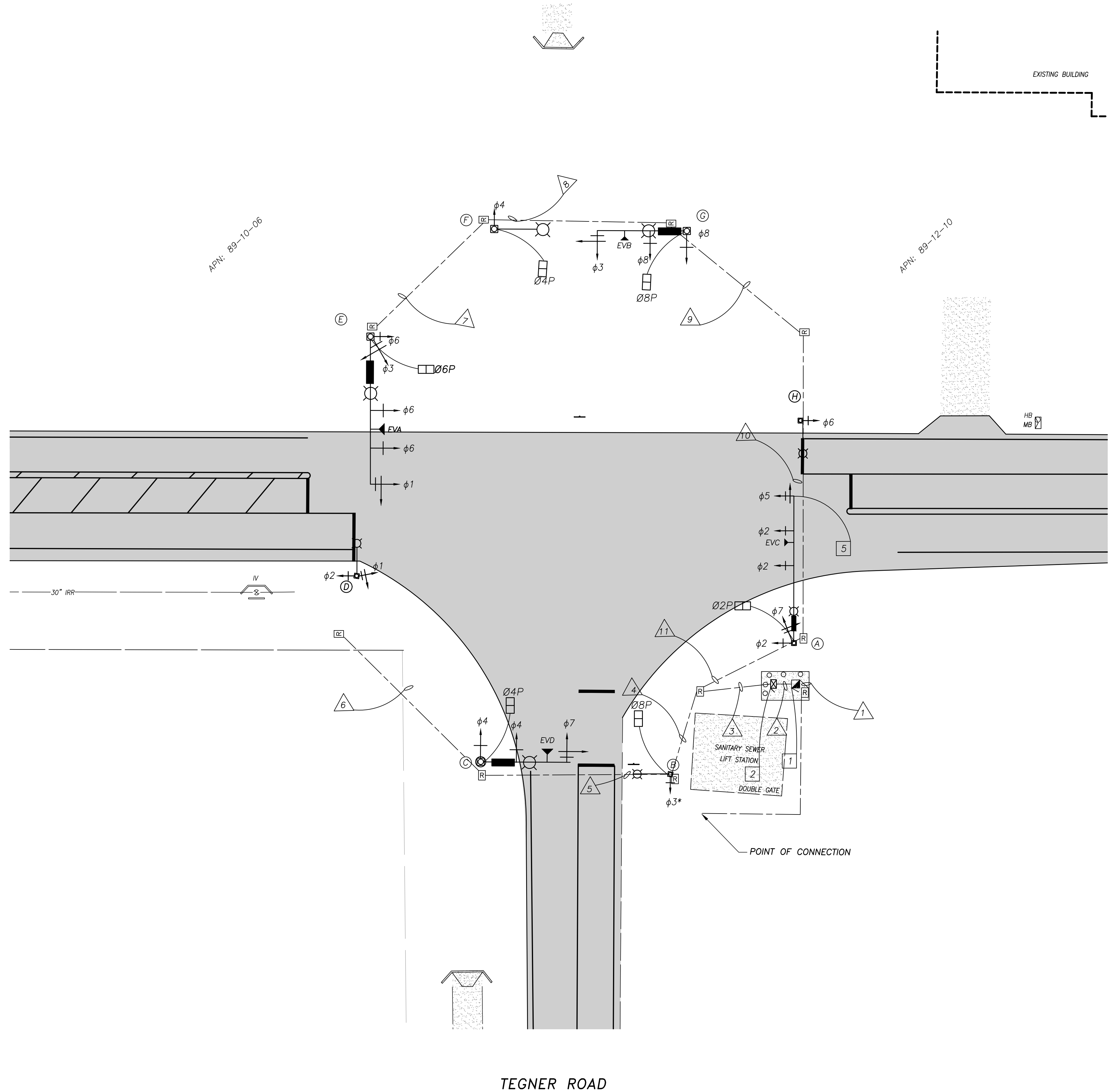
VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 1/4" 3/4" 1"
1/2"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY: RJ
REV. BY: SF
CH. BY: WM
DATE: JULY 2, 2024
SCALE: 1" = 20'
14-44 BASE.dwg

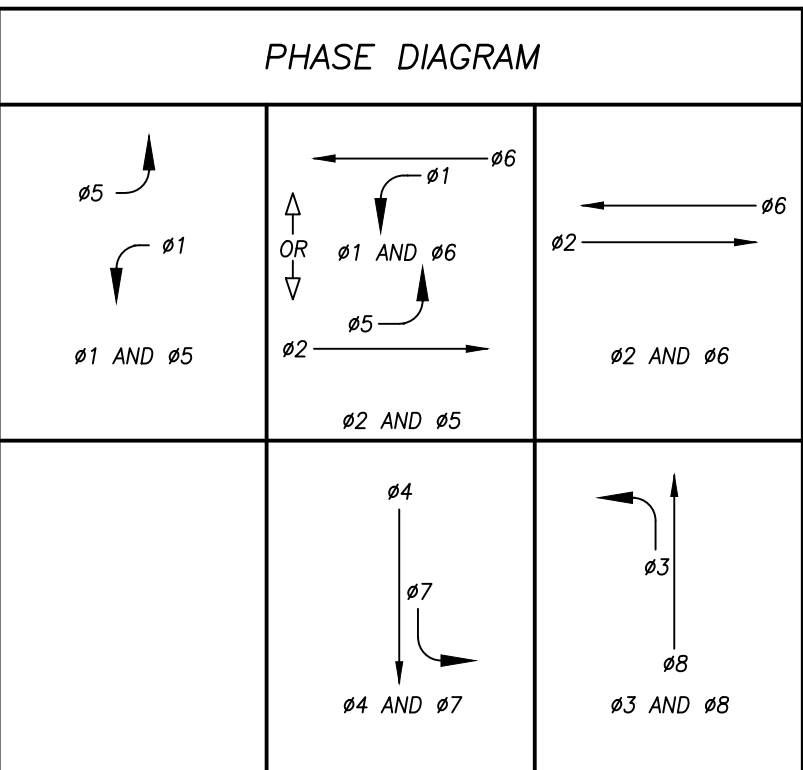
SHEET
16
of 22

CONSTRUCTION NOTES

- 1 CONTRACTOR TO FURNISH AND INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE FOR 120/240V SERVICE WITH THE FOLLOWING CIRCUIT BREAKERS: 100A, 240V, 3P MAIN; 50A, 120V, 1P SIGNALS; 30A, 120V, 1P LIGHTING; 15A, 120V, 1P ISSNS LIGHTING CONTROL; AND 15A, 120V, 1P ISSNS INCLUDE ITEMS 1 - 8, 15 - 17 (16 AS MODIFIED) AND 20 - 25 OF THE 120/240V SERVICE WIRING DIAGRAM SHOWN ON THE STATE STANDARD PLAN ES-20 WITH PEU WINDOW.
- 2 CONTRACTOR TO FURNISH AND INSTALL MODEL 332 CONTROLLER CABINET, MODEL 2070 ATC CONTROLLER, MCCAIN OMNI EX LOCAL INTERSECTION CONTROL SOFTWARE, 20170-1C OF 2070-1E CPU MODULE, 2070-2A OR 2070-2E FIELD I/O MODULE, 2070-3B DISPLAY MODULE, 2070-4A POWER SUPPLY MODULE, 2070-7A ASYNCHRONOUS COMMUNICATION MODULE (DUAL RS-232), 2070-7G GPS TIME BASE MODULE, VEHICLE DETECTION CARDS, SWITCH PACKS AND ALL AUXILIARY EQUIPMENT NECESSARY TO OPERATE THE PHASING SEQUENCE AND EMERGENCY VEHICLE PREEMPTION SHOWN ON THE PLANS.
- 3 ELECTRICAL POINT OF CONNECTION IS A POLE MOUNTED TRANSFORMER. CITY TO ARRANGE FOR AND PAY FOR ELECTRICAL SERVICE TURLOCK IRRIGATION DISTRICT. CONTRACTOR SHALL INSTALL CONDUIT FROM POINT OF CONNECTION TO SERVICE PEDESTAL PER T.I.D.'S STANDARDS FOR AN "INDIVIDUAL UNDERGROUND ELECTRICAL FACILITY". REFER TO T.I.D. STANDARDS AVAILABLE ONLINE AT: WWW.TID.ORG/POWER/ENGINEERING-CONSTRUCTION
- 4 CONTRACTOR SHALL INSTALL ALL WIRES FOR FUTURE PEDESTRIAN PUSH BUTTONS AND COUNTDOWN HEADS. NO PUSH BUTTONS OR COUNTDOWN HEADS WILL BE INSTALLED WITH THIS PROJECT.
- 5 CONTRACTOR SHALL INSTALL ALL WIRES FOR FUTURE SIGNAL HEADS. THESE SIGNAL HEADS WILL NOT BE INSTALLED WITH THIS PROJECT.



EMERGENCY VEHICLE PREEMPTION	
EV(A) =	PHASE 2
EV(B) =	PHASE 8
EV(C) =	PHASE 6
EV(D) =	PHASE 4
FLASHING OPERATION: ALL RED	



- GENERAL NOTES
- THIS PLAN IS SCHEMATIC FOR ELECTRICAL WORK ONLY.
 - CITY STAFF SHALL COORDINATE WITH THE TURLOCK IRRIGATION DISTRICT FOR REMOVAL OF AERIAL UTILITIES ON UTILITY POLES IN CONFLICT WITH PROPOSED WORK. CONTRACTOR SHALL CONFIRM HEIGHT OF OVERHEAD ELECTRICAL WIRE OF RELOCATED FACILITIES AND ADJUST THE LENGTH OF SIGNAL POLE ALTERNATIVE SECTION TO PROVIDED A MINIMUM 6' CLEARANCE FROM POWER LINES TO LUMINAIRE AND/OR SIGNAL MAST ARM PER CPUC GENERAL ORDER 95.
 - ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND PLANS.
 - EXISTING FACILITIES SHOWN ARE FROM EXISTING FACILITIES LOCATED IN THE FIELD OR FROM RECORD DATA. CONTRACTOR SHALL CONTACT U.S.A. TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES AND SHALL PROVIDE PROTECTION PRIOR TO AND DURING ALL TRENCHING, JACKING OR BORING OPERATIONS.
 - ALL VEHICLE SIGNAL HEADS SHALL BE 12 INCH INDICATORS WITH TUNNEL VISORS AND BACK PLATES WITH REFLECTIVE YELLOW BORDERS.
 - ALL TRAFFIC SIGNAL PULL BOXES SIZE SHALL BE NO. 6 UNLESS OTHERWISE NOTED ON THE PLANS.
 - TRAFFIC SIGNAL BOXES ADJACENT TO STANDARDS SHALL BE PLACED WITH A 3 FOOT CLEARANCE FROM SIDE OF FOUNDATION.
 - TRAFFIC SIGNAL BOXES INSTALLED IN THE ROADWAY OR SHOULDER SHALL BE INSTALLED AS PER CALTRANS DRAWING ES-88, "ELECTRICAL SYSTEMS (TRAFFIC PULL BOX)".
 - ALL CONDUIT SHALL BE A MINIMUM OF 24 INCHES BELOW TOP OF ASPHALT, CONCRETE, OR NATIVE SURFACES.
 - ALL SIGNAL FACES AND PEDESTRIAN SIGNAL FACES SHALL BE L.E.D.
 - HIGHWAY SAFETY LIGHTING SHALL HAVE IV PHOTOELECTRIC CONTROL.
 - ISSNS SHALL BE TITLE CASE, HIGHWAY GOTHIC D FONT. UPPERCASE LETTER SHALL BE 12" IN HEIGHT. LOWERCASE LETTER SHALL BE 9" IN HEIGHT. BACKGROUND SHALL BE BLUE.
 - MODEL 332 FOUNDATION DETAIL SH ES-3C SHALL BE MODIFIED TO PROVIDE A 24" WIDE RAISED SIDEWALK AREA ON BOTH SIDES OF THE 332 CABINET.



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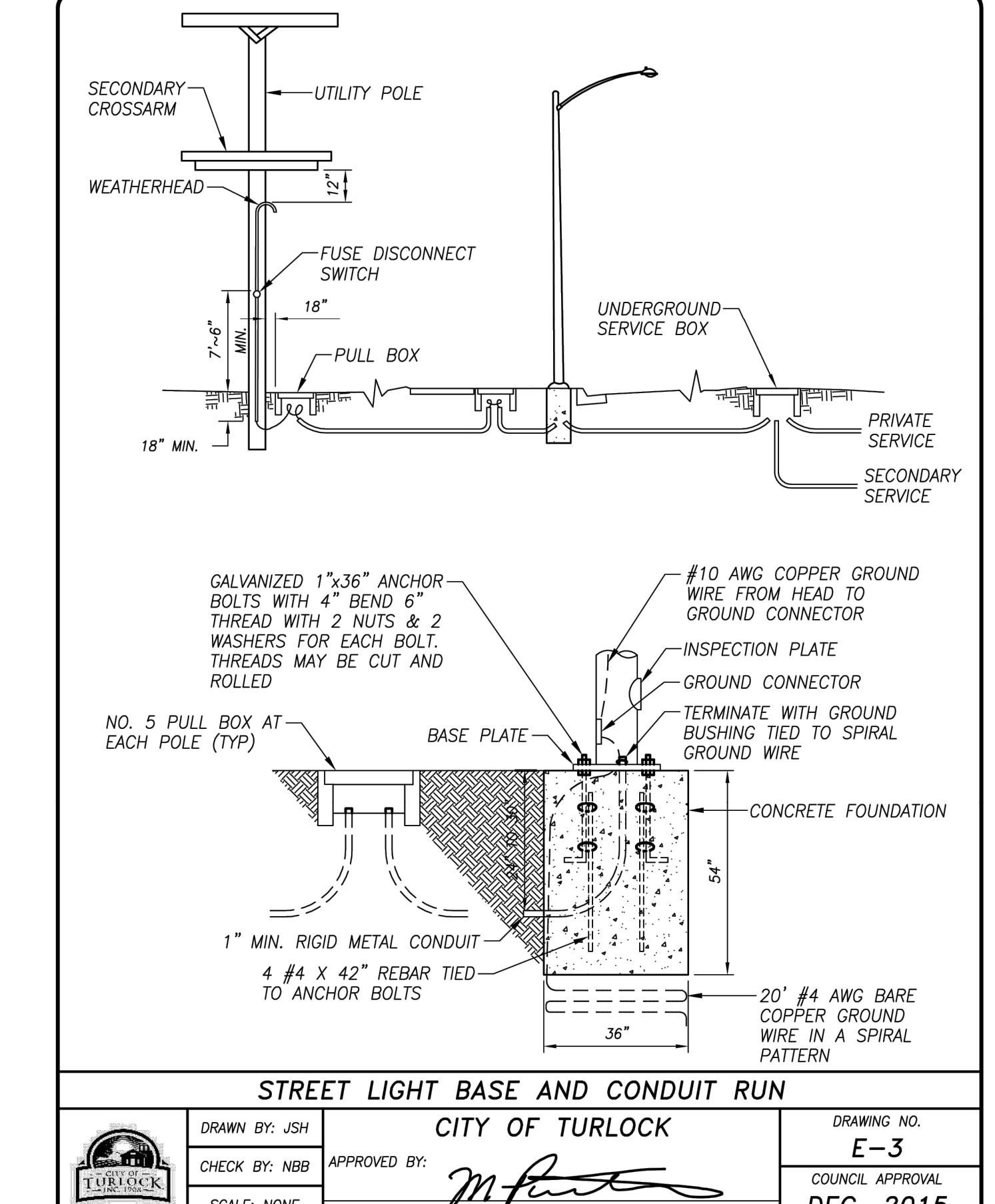
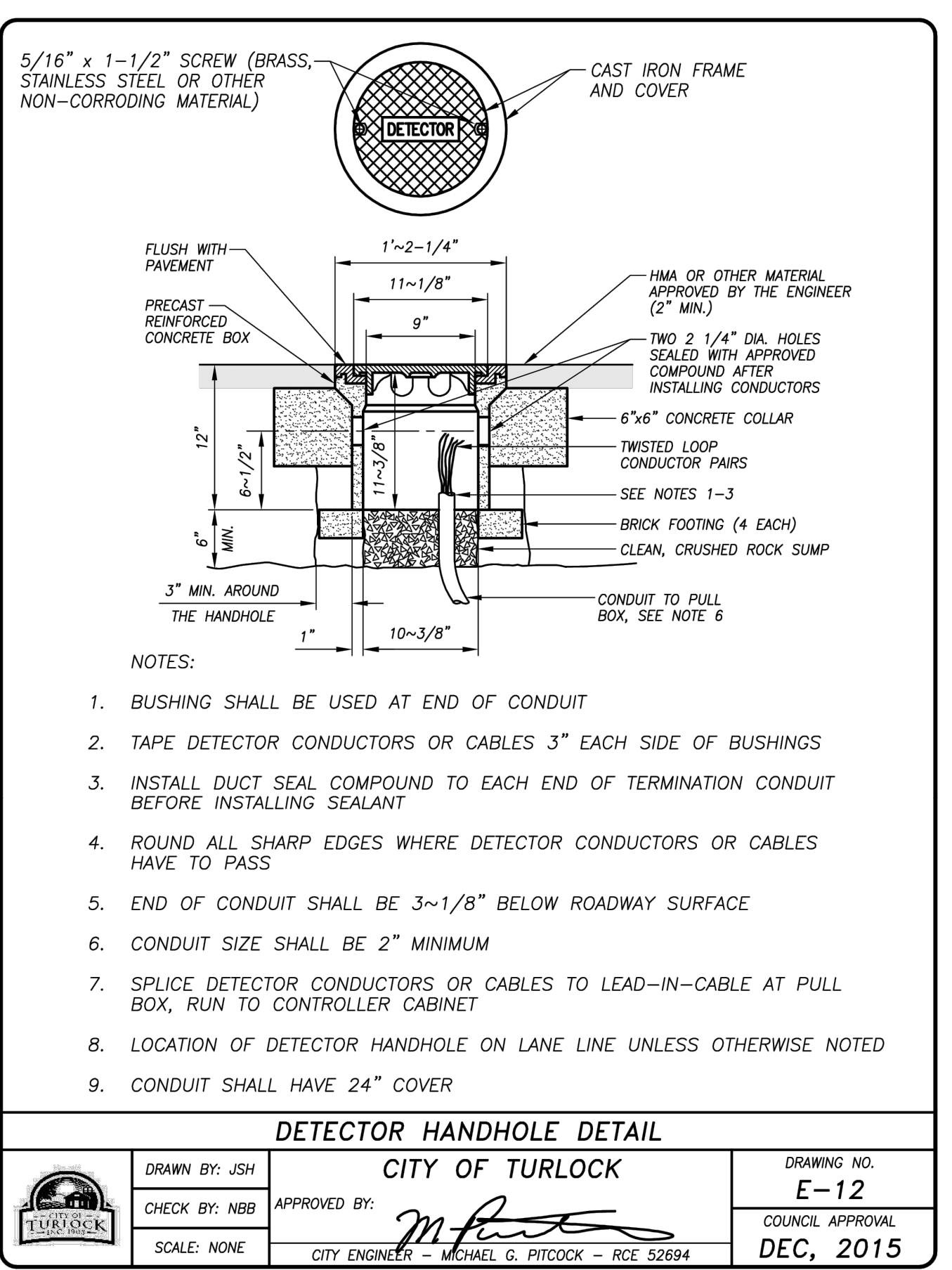
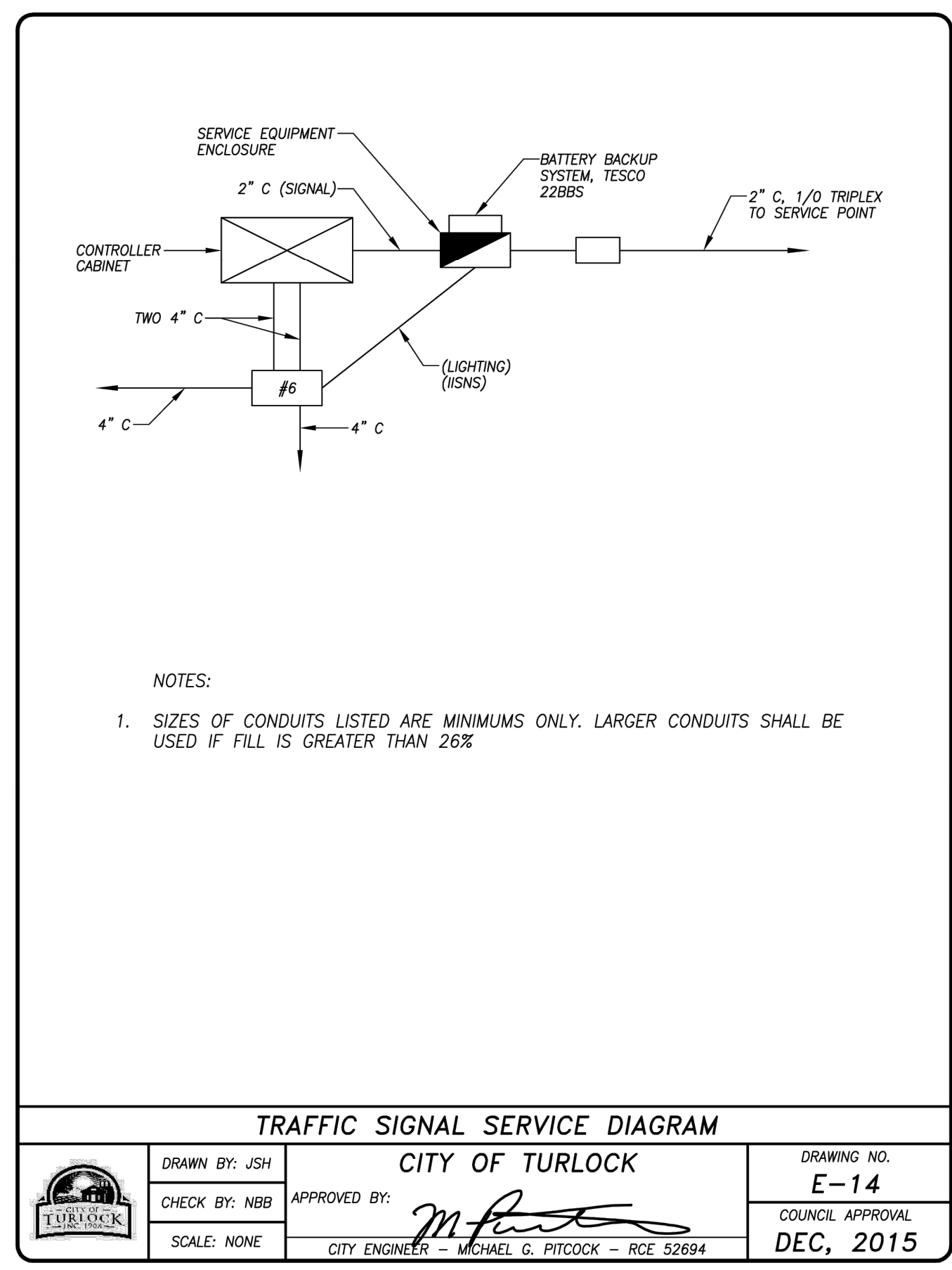
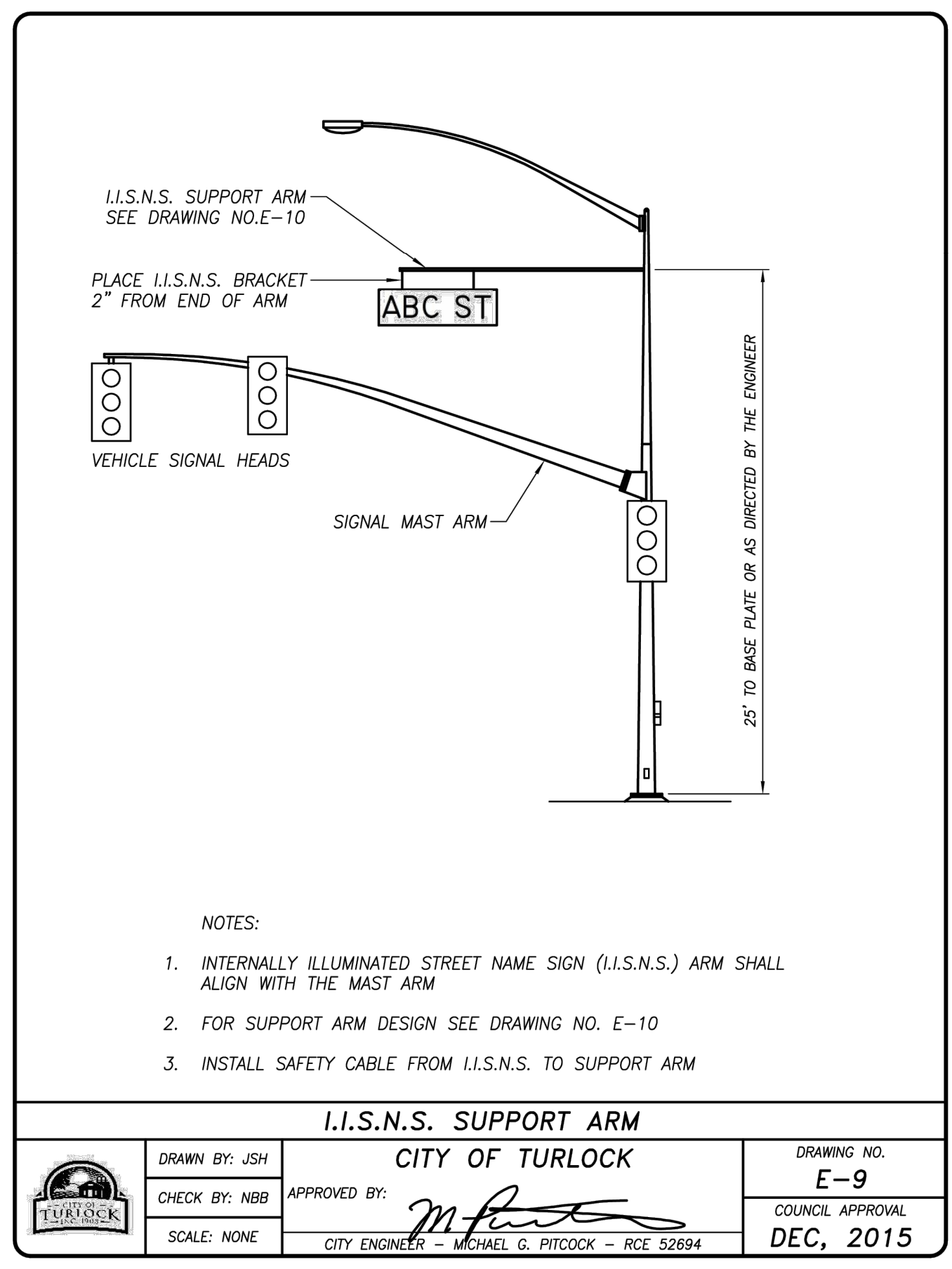
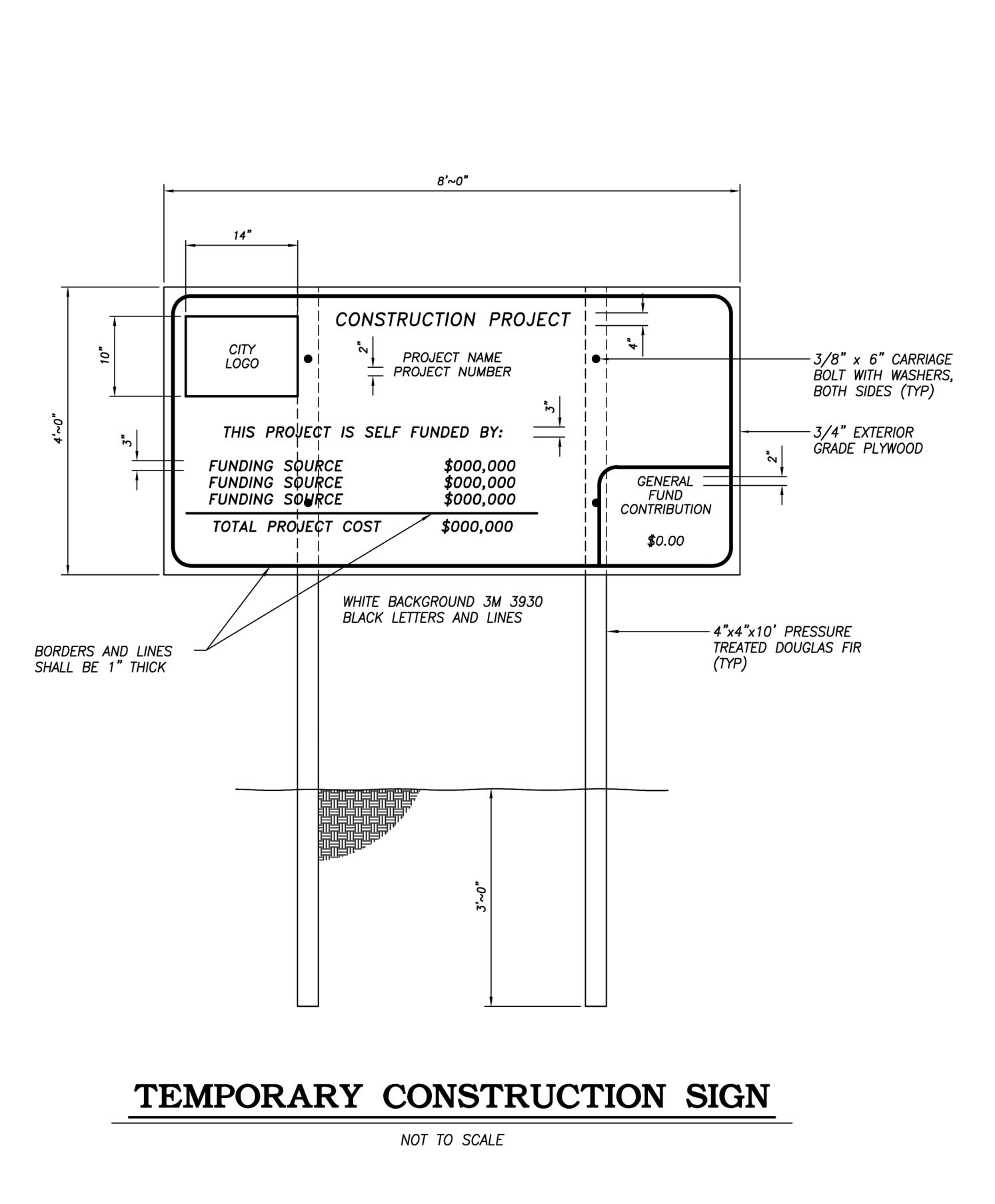
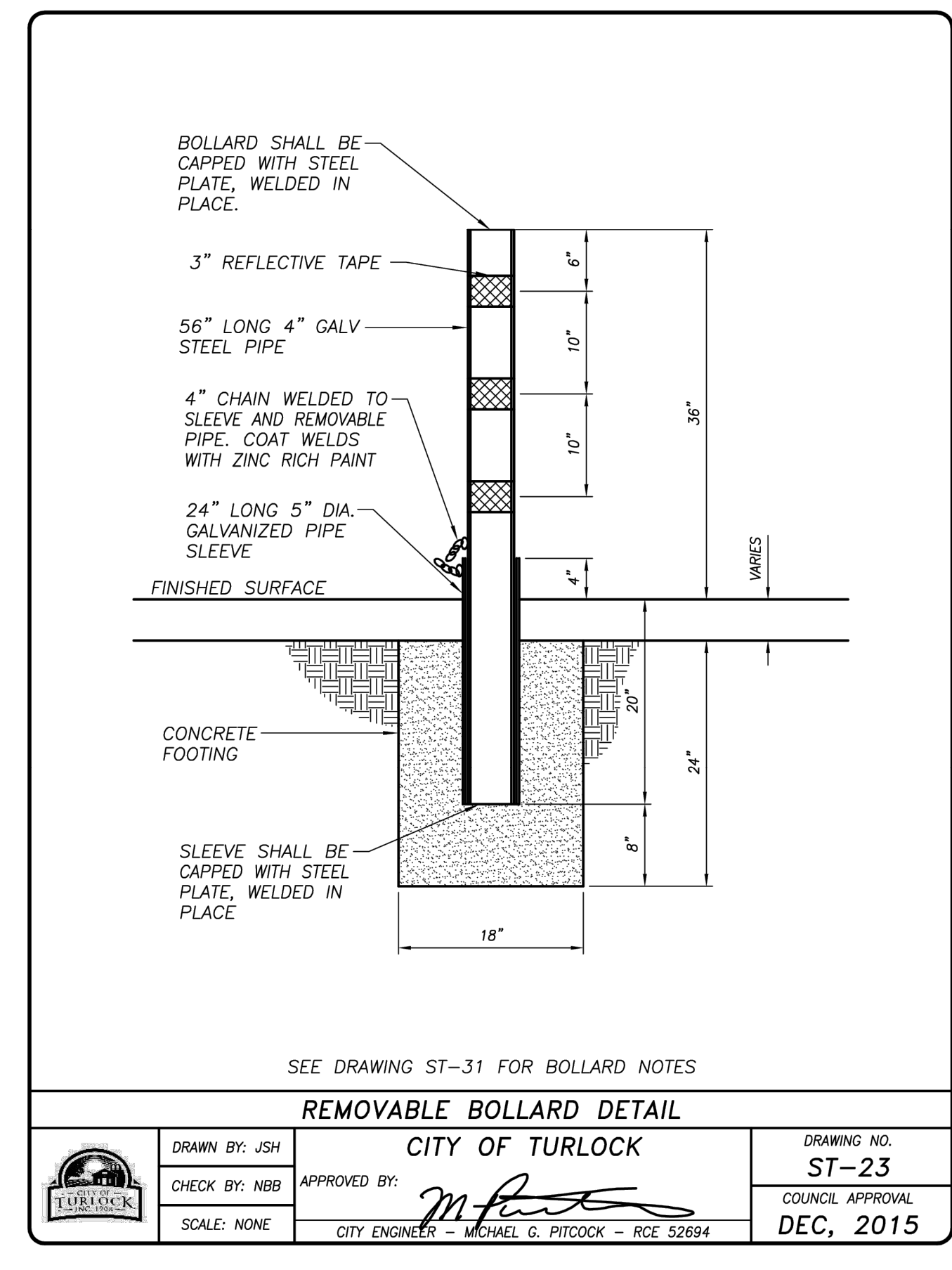
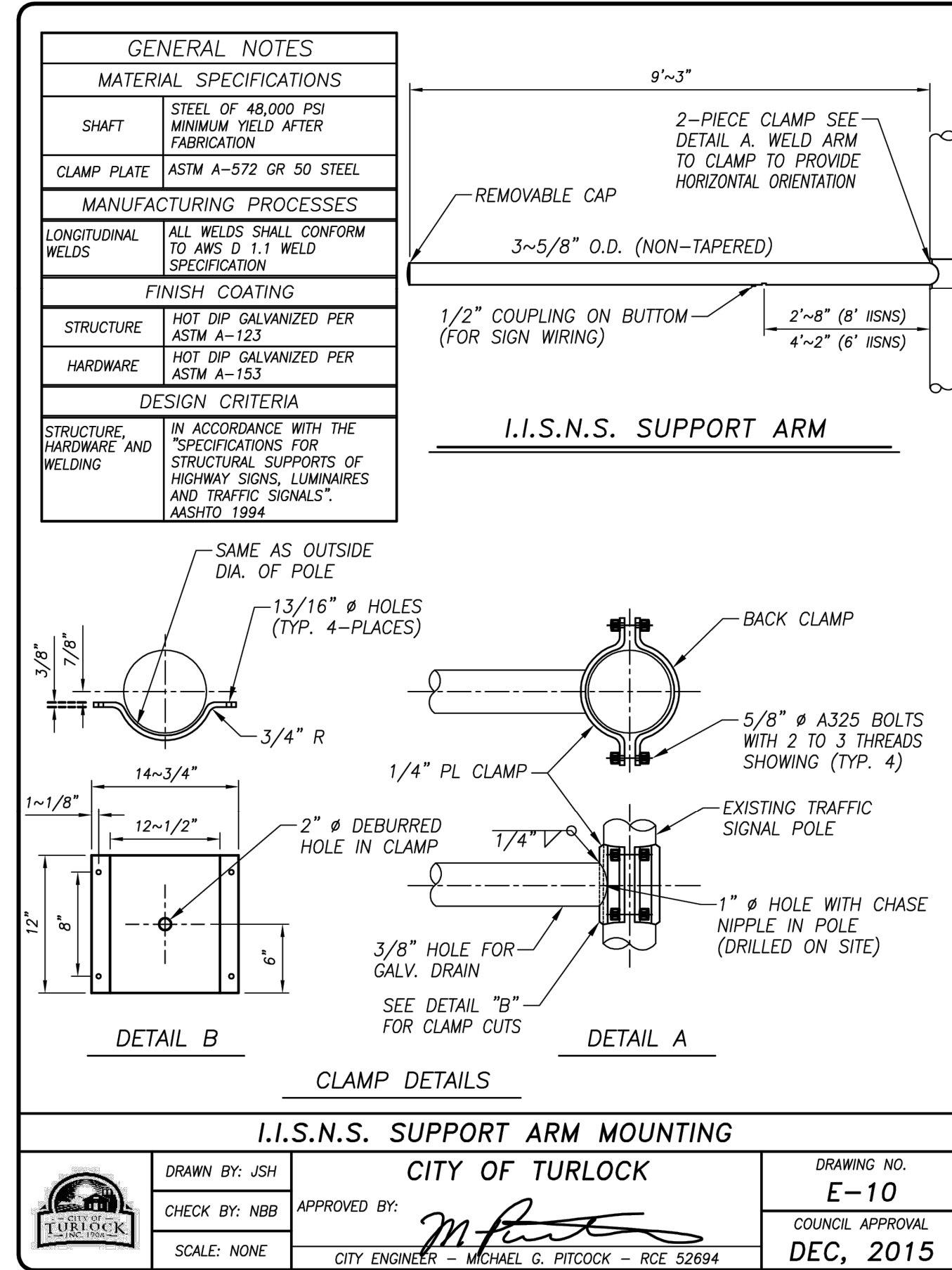
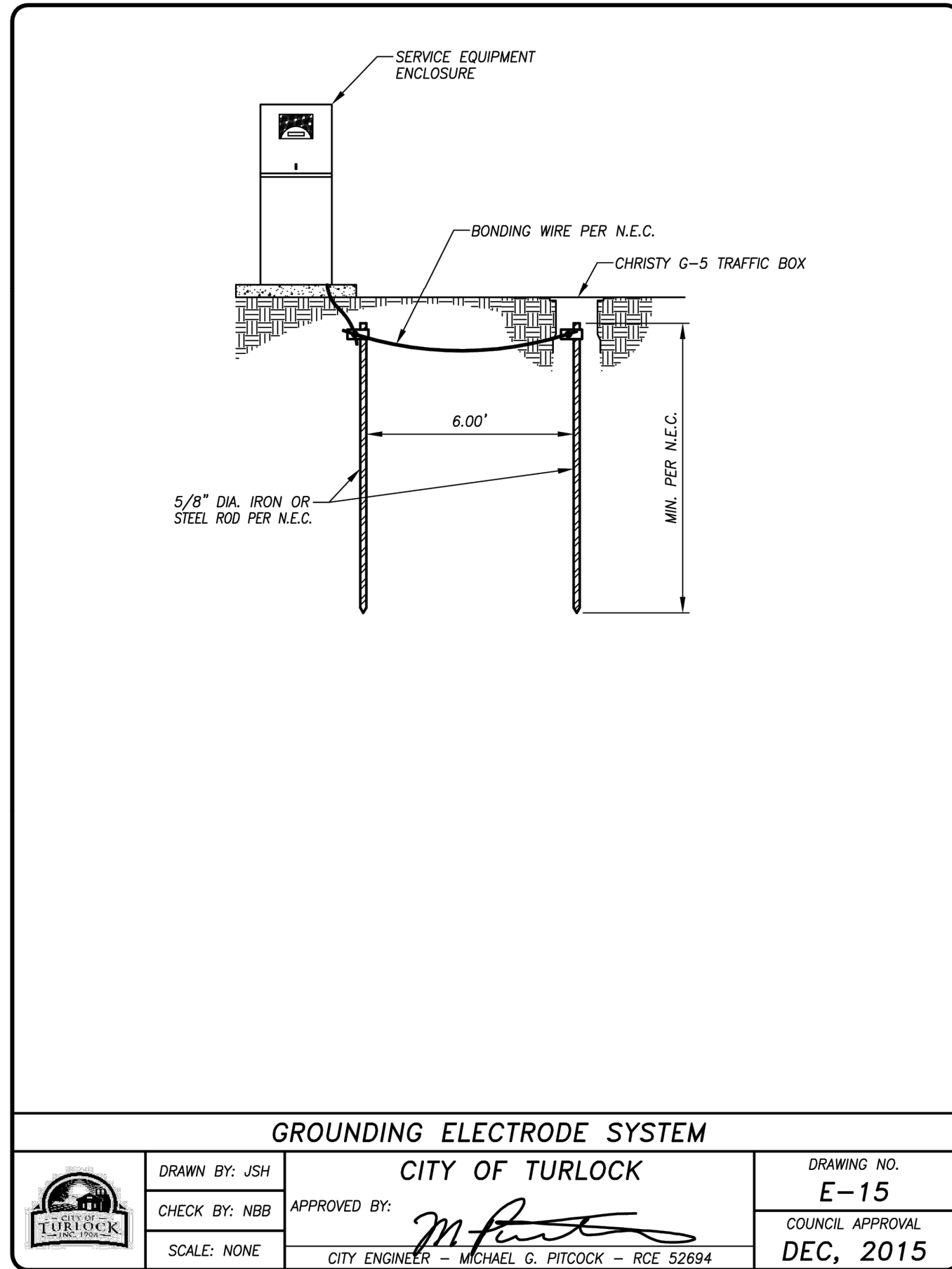
CITY OF TURLOCK
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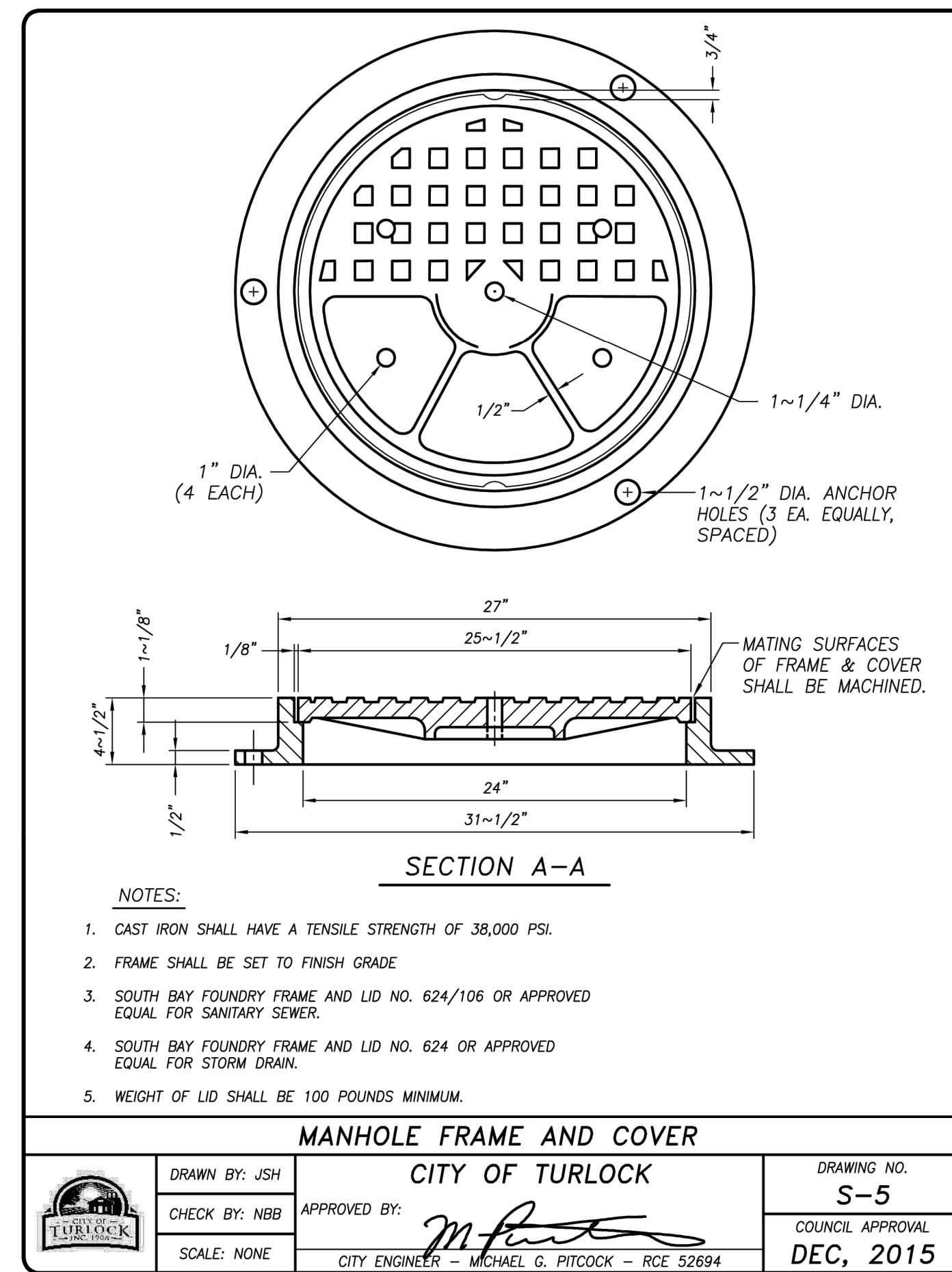
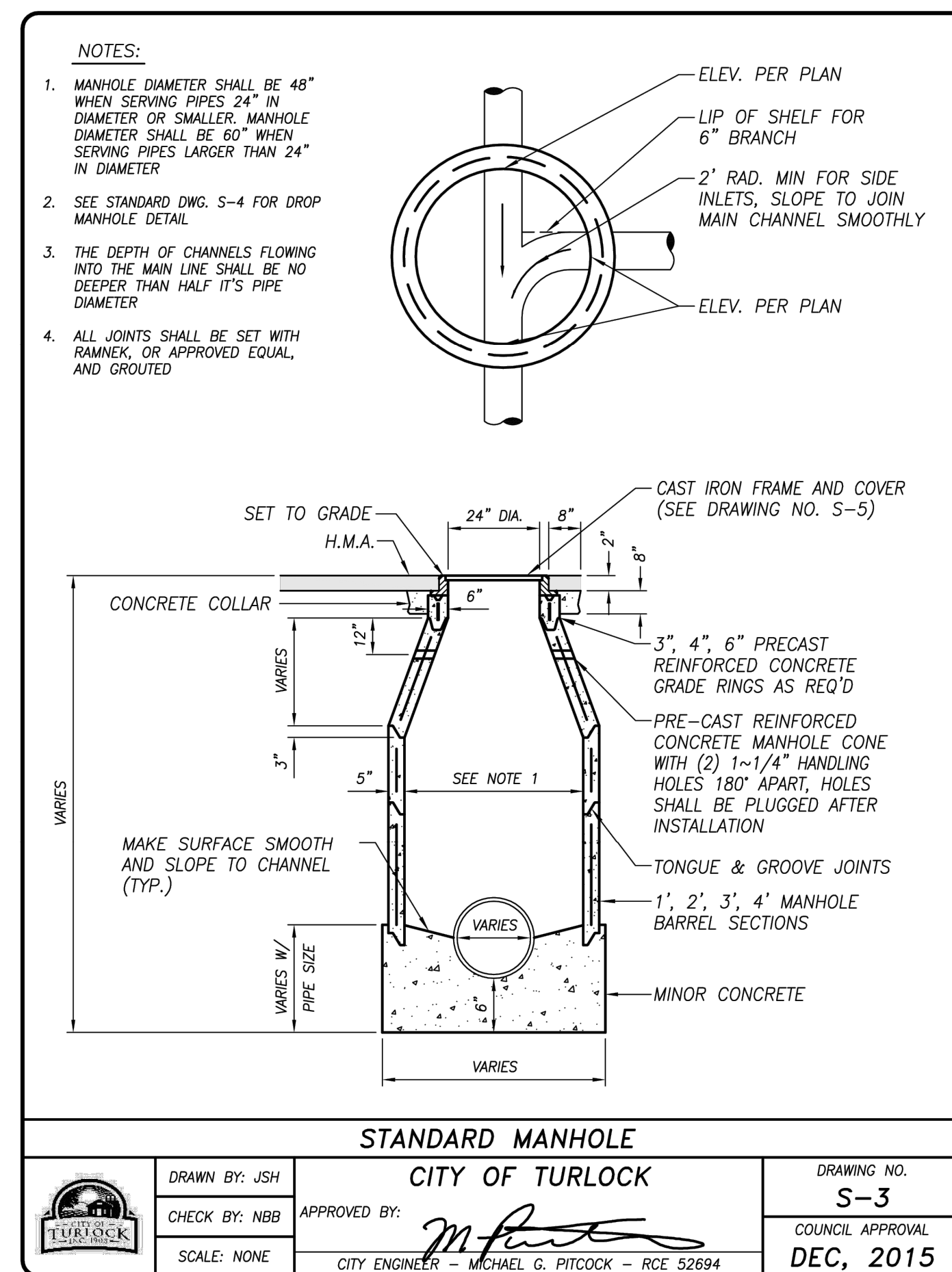
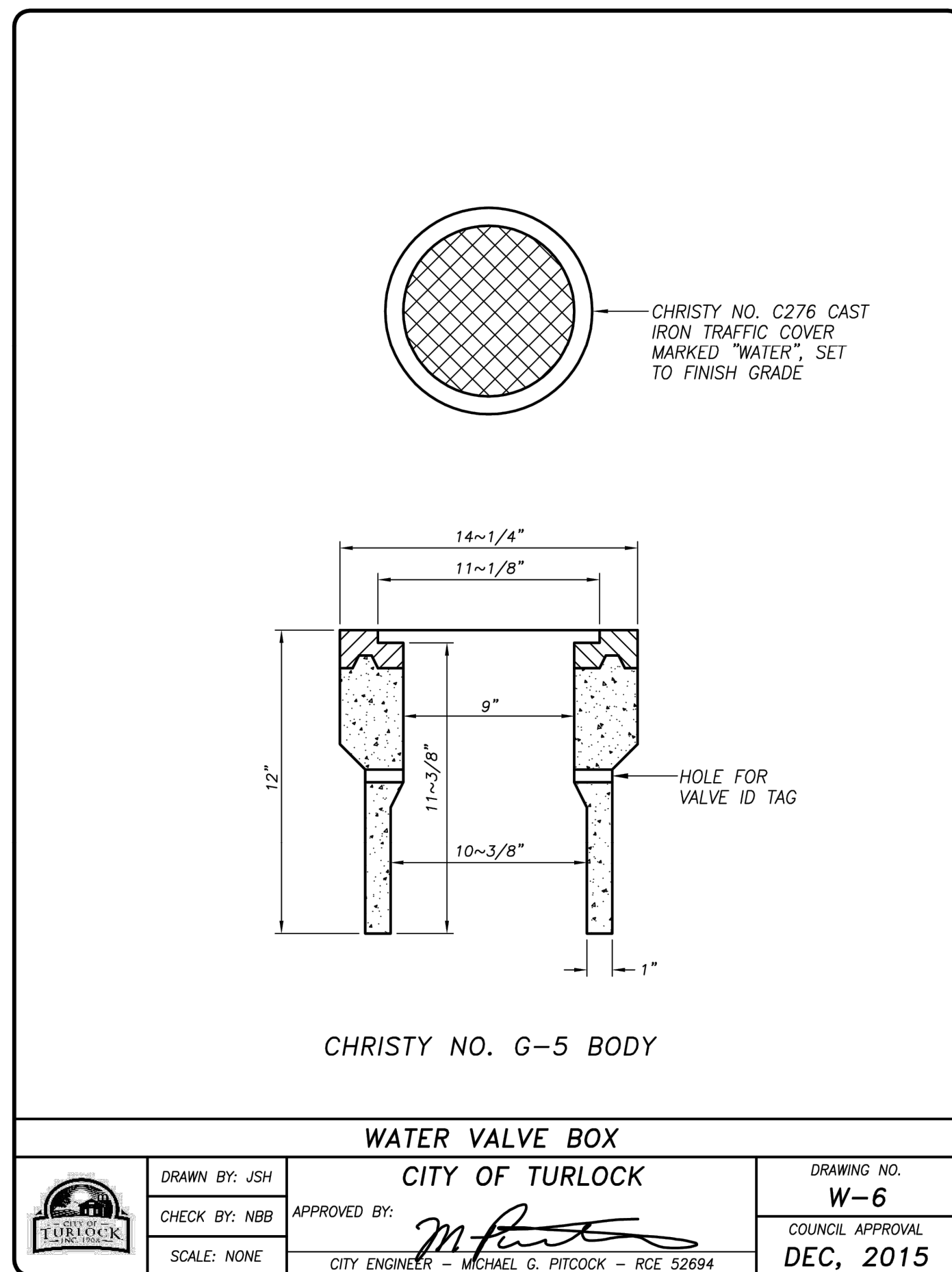
TRAFFIC SIGNAL PLAN
CAPITAL PROJECT NO. 14-44
INTERSECTION IMPROVEMENTS AT
W. MAIN STREET AND S. TEGNER ROAD

VERIFY SCALE
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1/4" 3/4" 1"
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17
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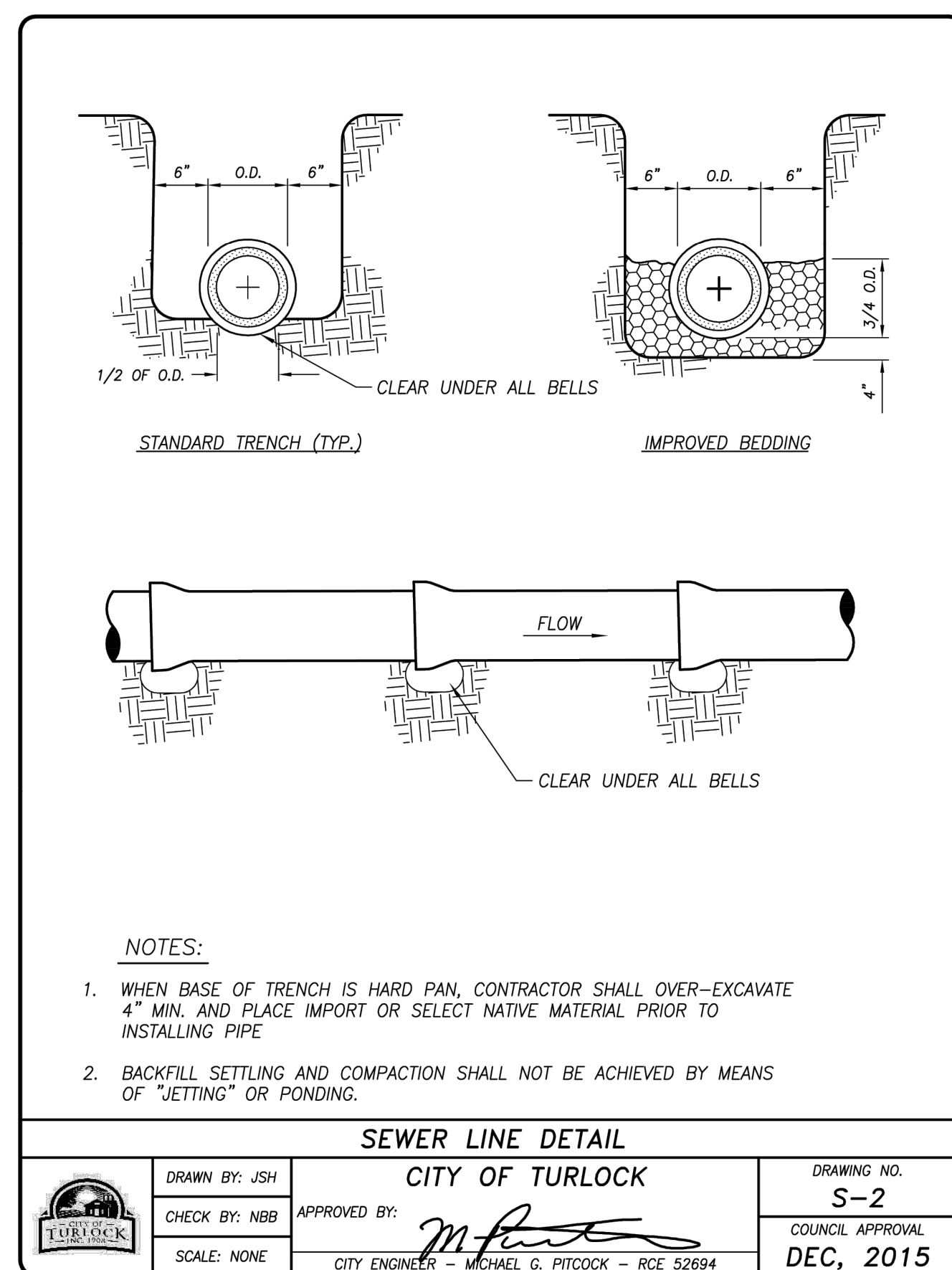




PIPE SIZE	MIN. SLOPE
8" DIA.	0.0024
10" DIA.	0.0018
12" DIA.	0.0015
15" DIA.	0.0011
18" DIA.	0.0009
>18" DIA.	PROVIDE CALCS

NOTES:
1. MINIMUM COVER SHALL BE 30 INCHES.
2. MANHOLES SHALL BE INSTALLED AT THE END OF ALL LINES, WHERE SEWERS INTERSECT, AT CHANGES IN LINE SIZE OR MATERIAL AND AT SERVICE CONNECTIONS LARGER THAN 4" IN DIAMETER.
3. ALL SERVICE CONNECTIONS TO SEWERS SHALL BE MADE AT WYES.
4. THE ENGINEERING DIVISION SHALL BE SUPPLIED WITH AN "AS-BUILT" PLAN SHOWING LOCATION OF ALL LATERALS AND INVERT ELEVATIONS.
5. A MANHOLE SHALL BE INSTALLED AT ALL CONNECTIONS TO A TRUNK LINE.

SANITARY SEWER DATA
CITY OF TURLOCK
DRAWING NO. S-1
COUNCIL APPROVAL DEC, 2015

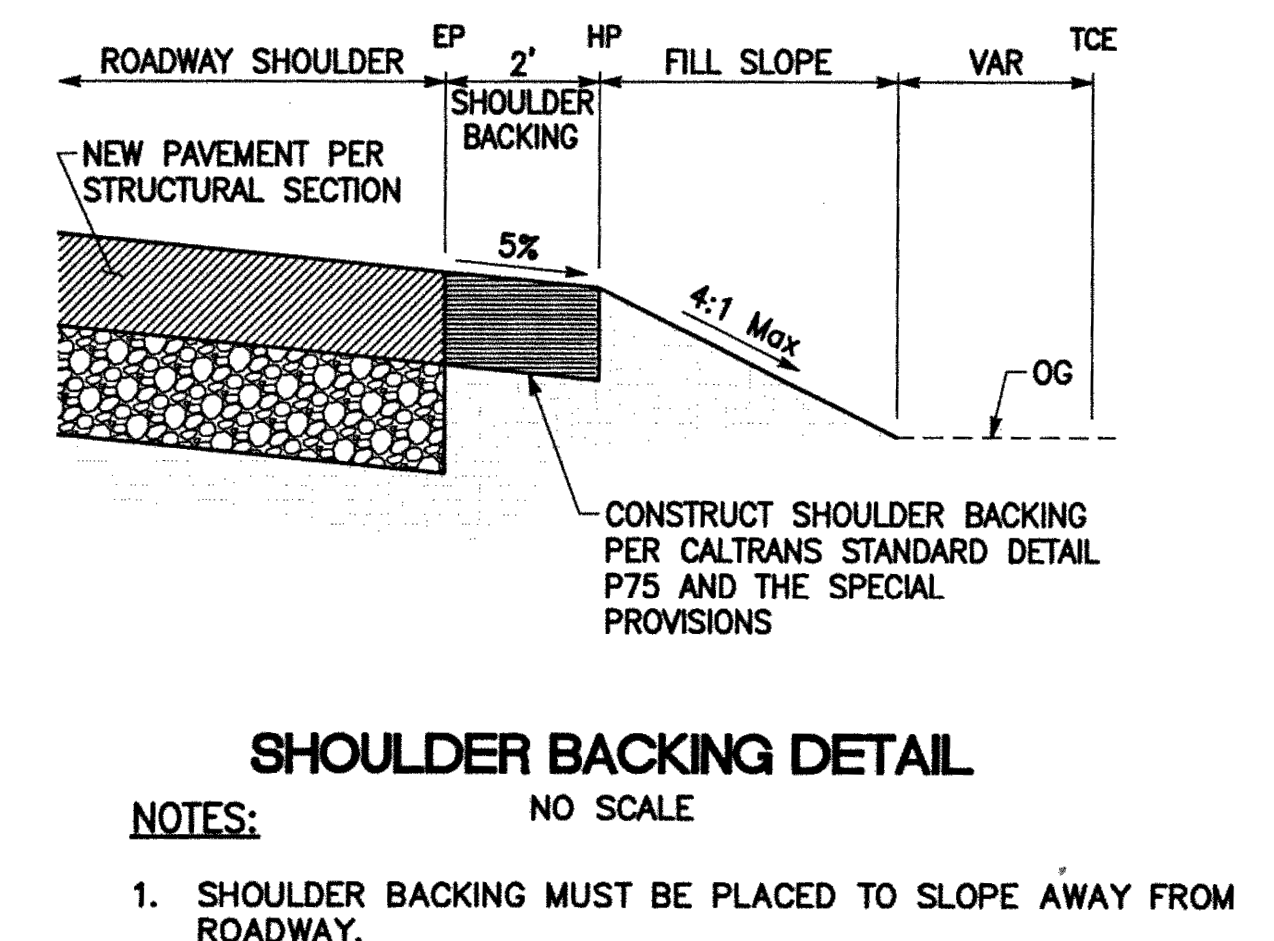
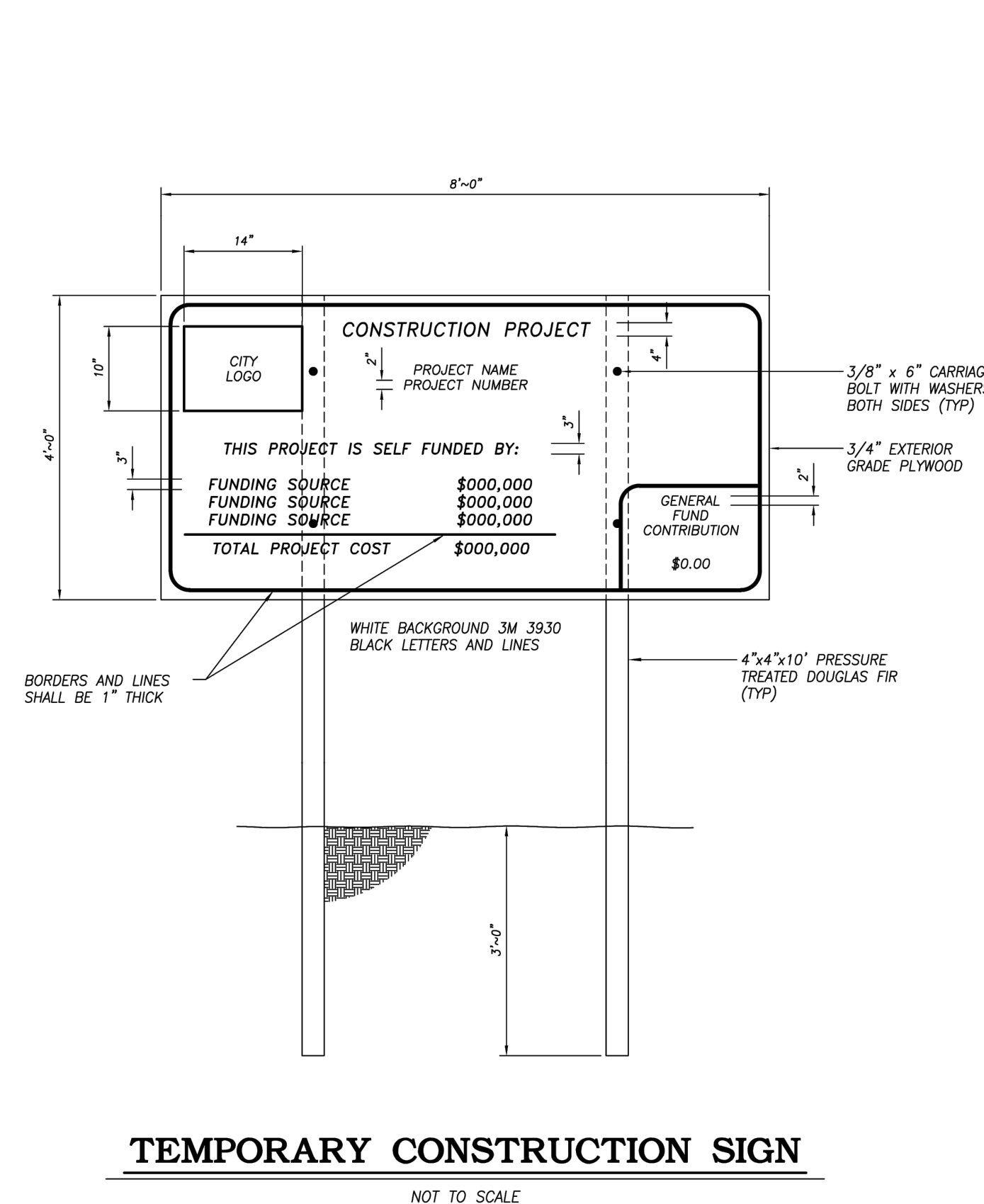


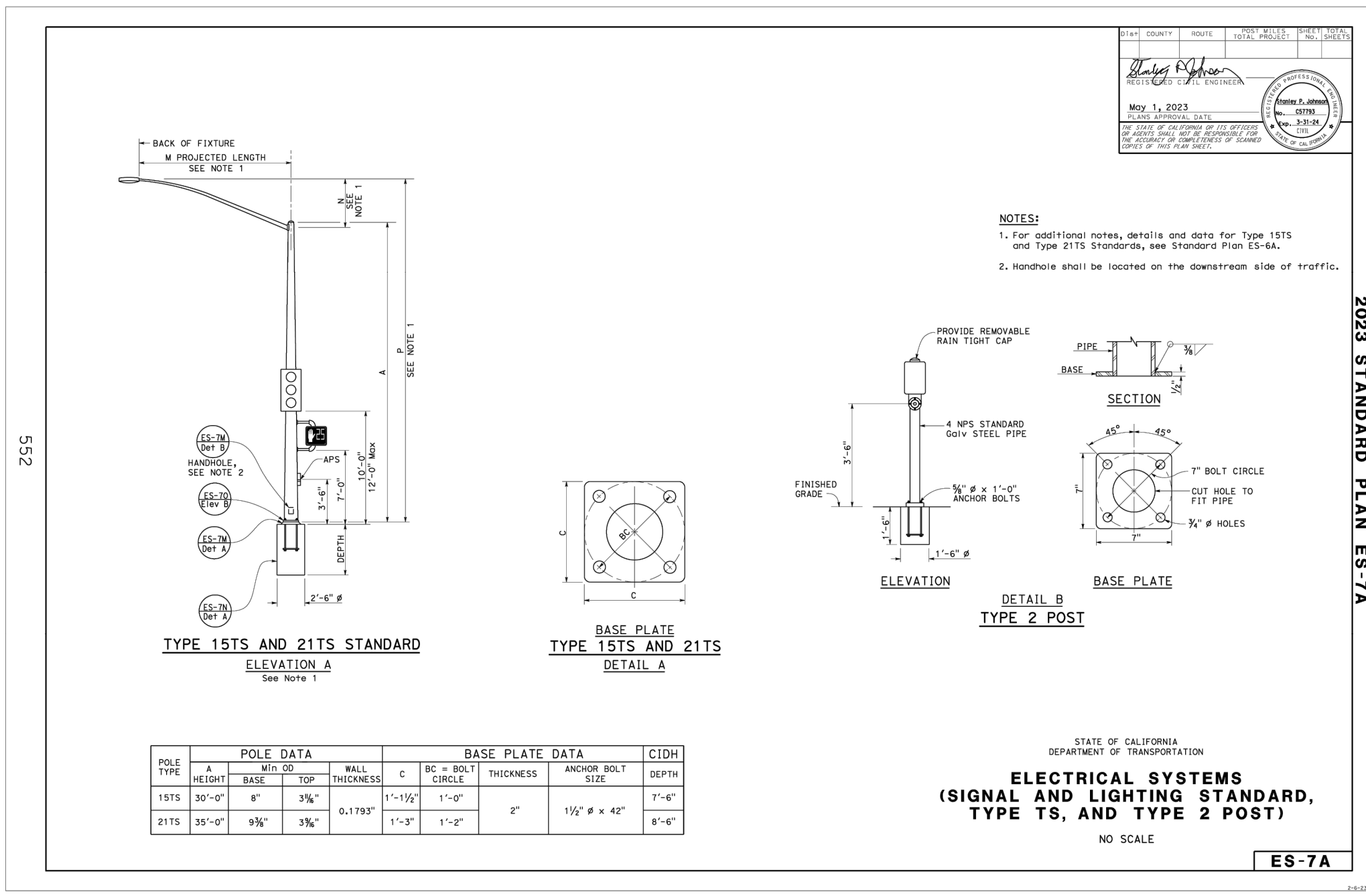
HORIZONTAL BENDS
VERTICAL BENDS
TEES & DEAD-ENDS

PIPE DIAMETER (INCHES)	HORIZONTAL BEND		WEIGHT AT VERTICAL BENDS (LBS.)
	SURFACE AREA (S.F.)	THICKNESS (INCHES)	
22° BENDS			
6 OR LESS	2	8	1,700
8	3	12	3,000
10	3.5	12	4,600
12	4	14	6,600
14	5	18	9,000
16	6	18	11,800
45° BENDS			
6 OR LESS	4	12	3,200
8	5	14	5,800
10	6	18	9,000
12	7	18	13,000
14	8	24	17,000
16	11.5	24	23,200
90° BENDS			
6 OR LESS	6	12	6,000
8	8	15	10,700
10	10	18	16,700
12	12	18	24,000
14	18	24	32,600
16	21	24	42,700
TEES & DEAD-ENDS			
6 OR LESS	3	12	
8	4	15	
10	6	18	
12	8.5	18	
14	11.5	24	
16	16	24	

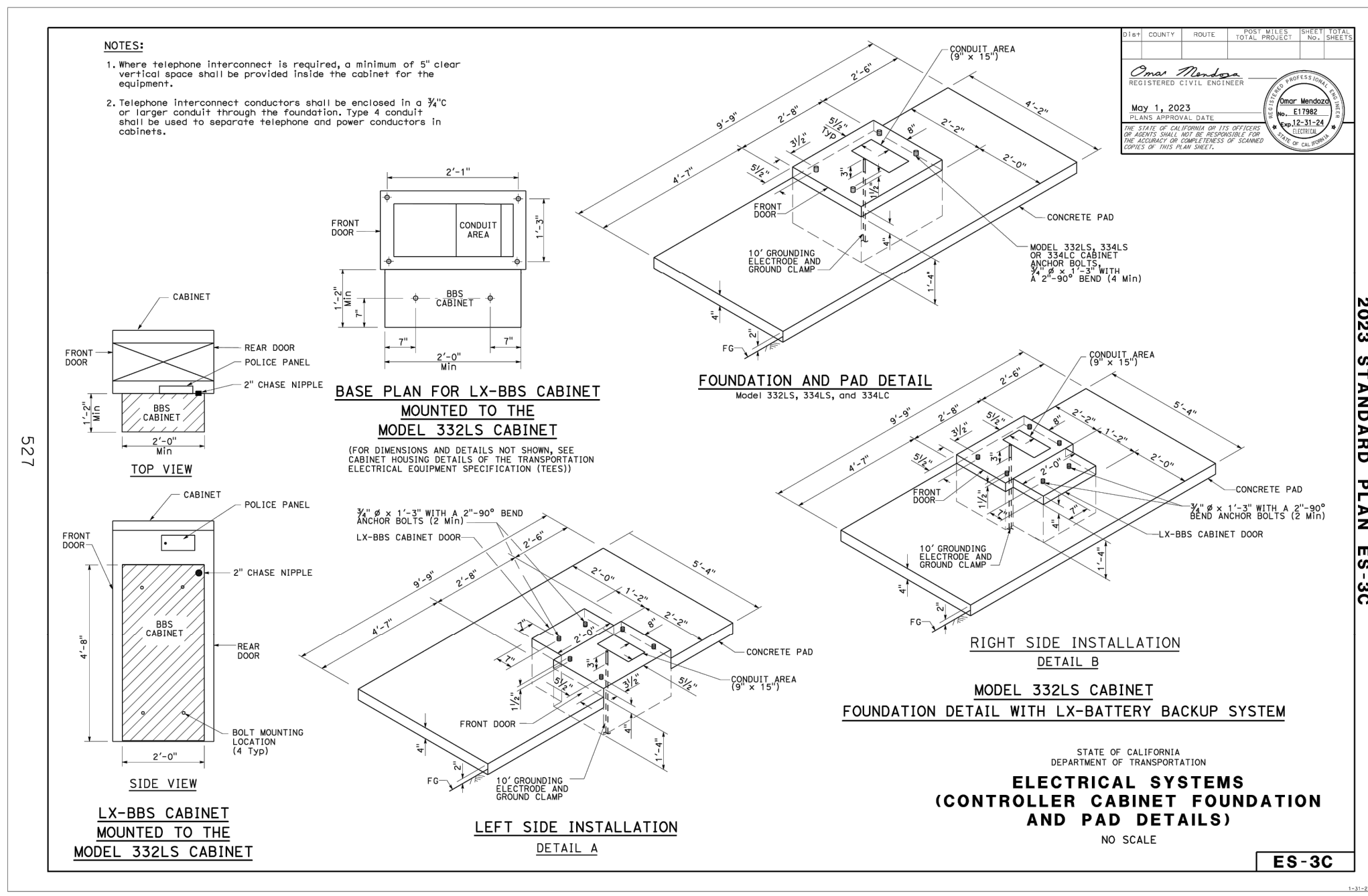
NOTES:
• ALL MECHANICAL FITTINGS AND VALVES SHALL BE WRAPPED IN PLASTIC AND PROTECTED FROM CONCRETE.
• THE CITY ENGINEER WILL CONSIDER REDUCTION OF THRUST BLOCK SURFACE AREA UPON SUBMITTAL OF APPROVED SOIL RESISTANT TEST RESULTS GREATER THAN 2,000 LBS/SQ. FT.
• IF LINES CONFLICT WITH CONC. KICKER, THEN GRIP RINGS ONLY SHALL BE USED. IN OTHER SITUATIONS, GRIP RINGS MAY BE UTILIZED AT THE DISCRETION OF THE CITY ENGINEER.

THRUST BLOCKS
CITY OF TURLOCK
DRAWING NO. W-4
COUNCIL APPROVAL DEC, 2015

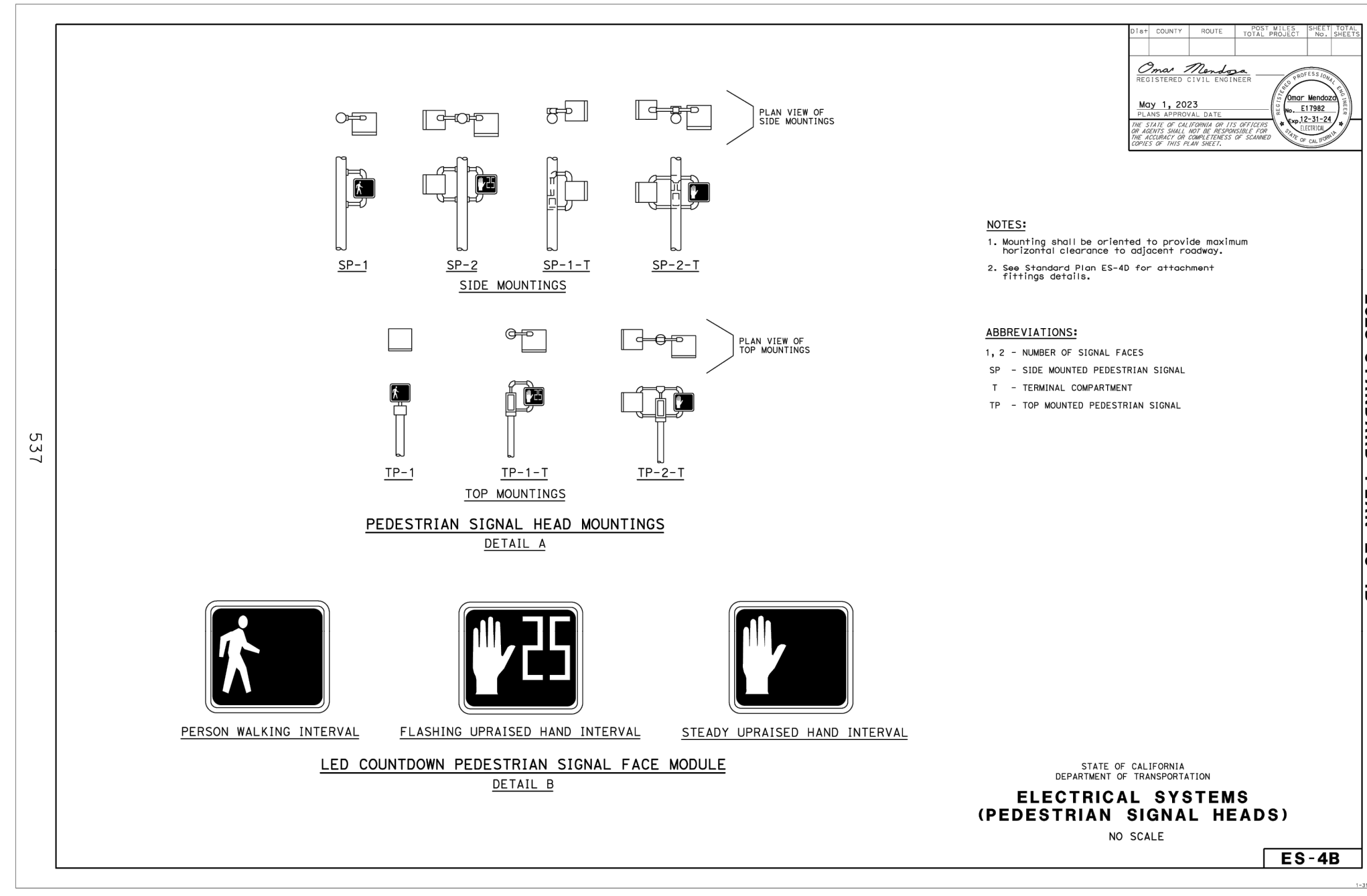




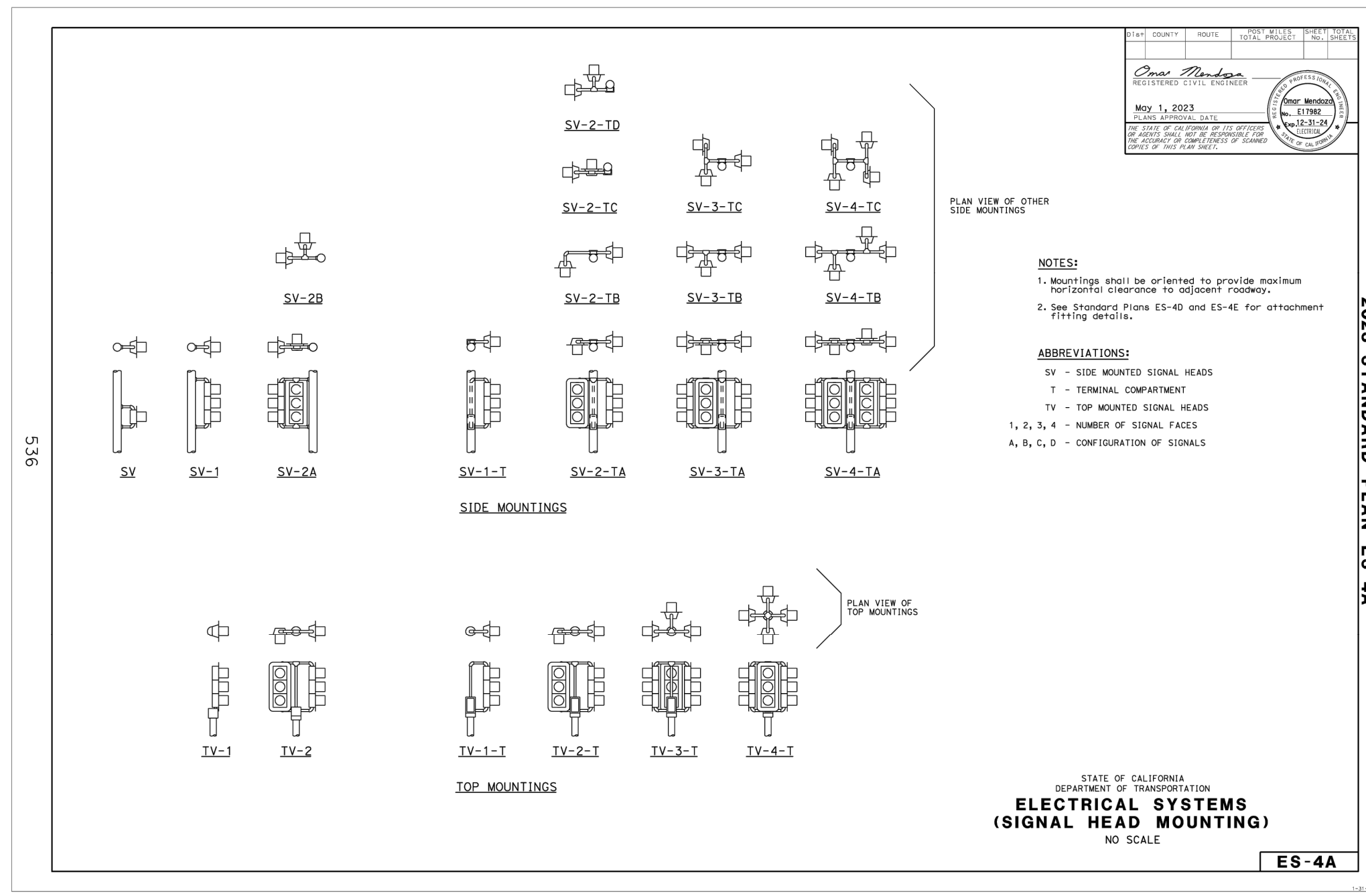
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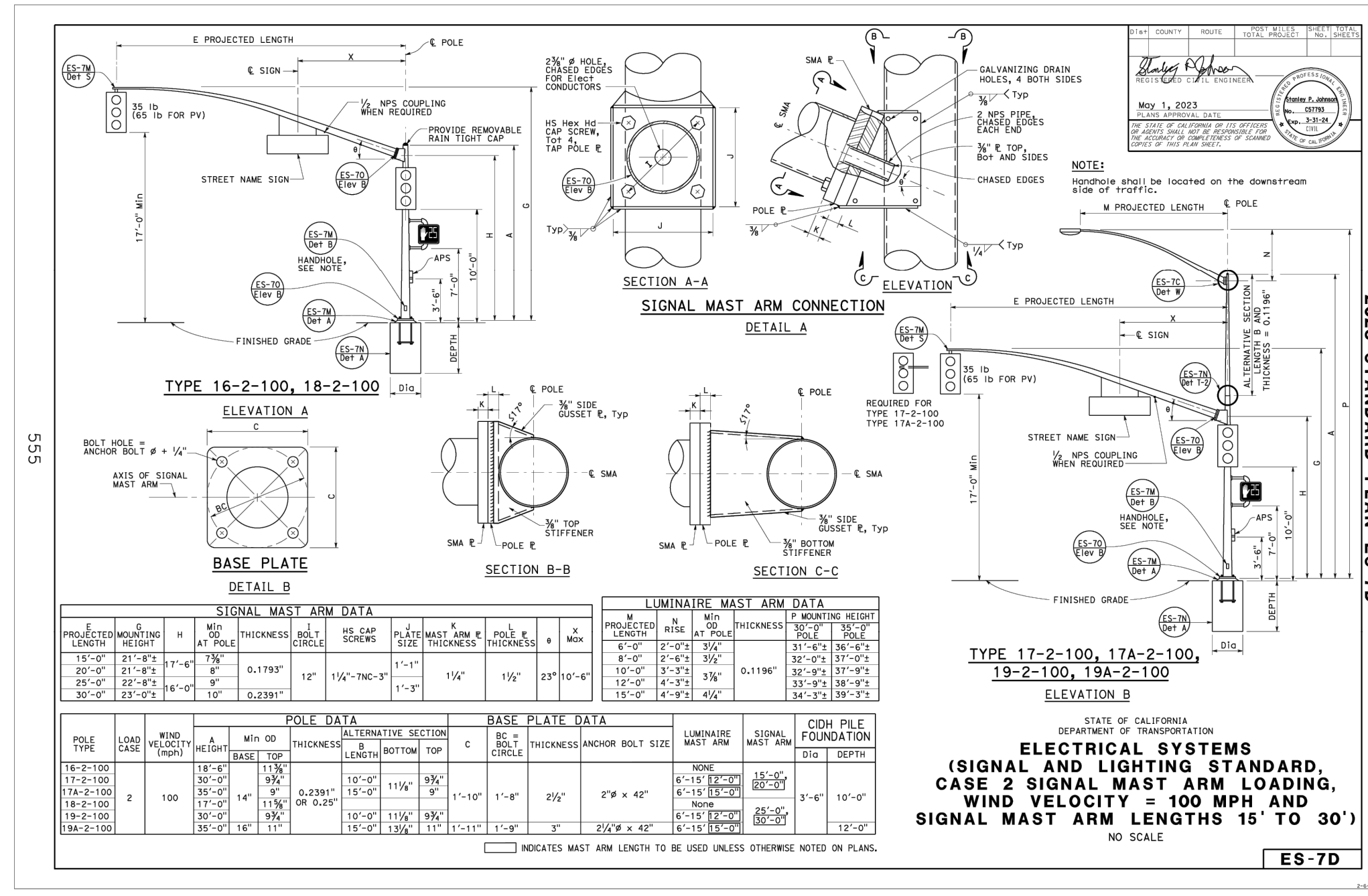
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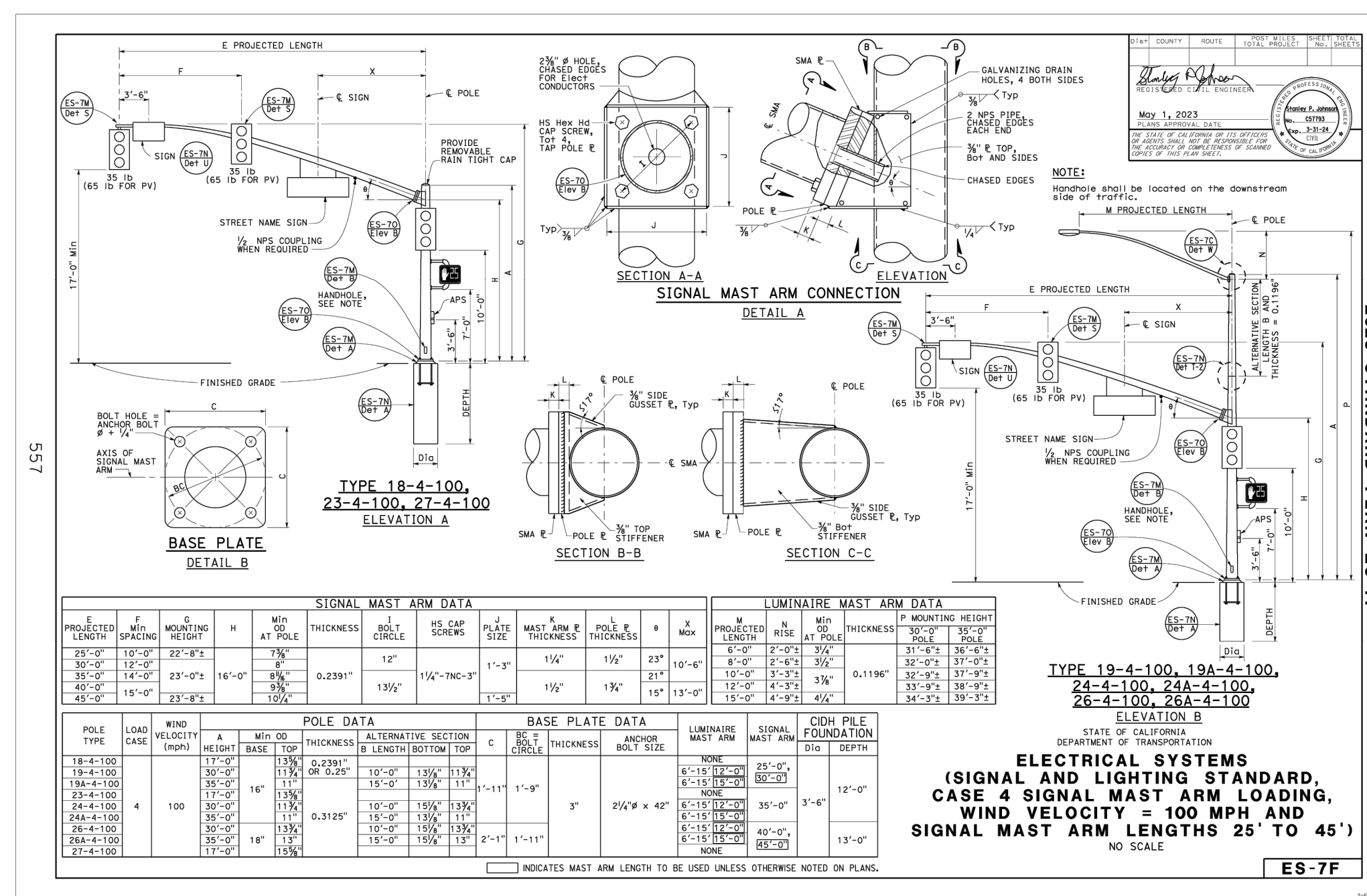
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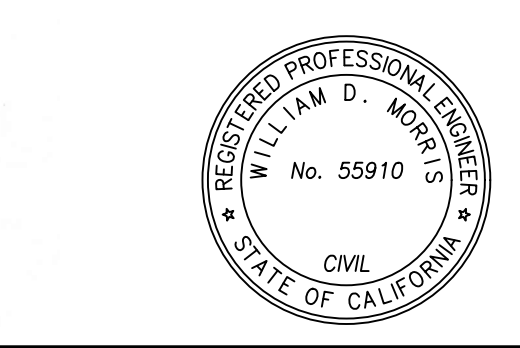
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TRAFFIC SIGNAL DETAILS
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SHEET
22
of 22