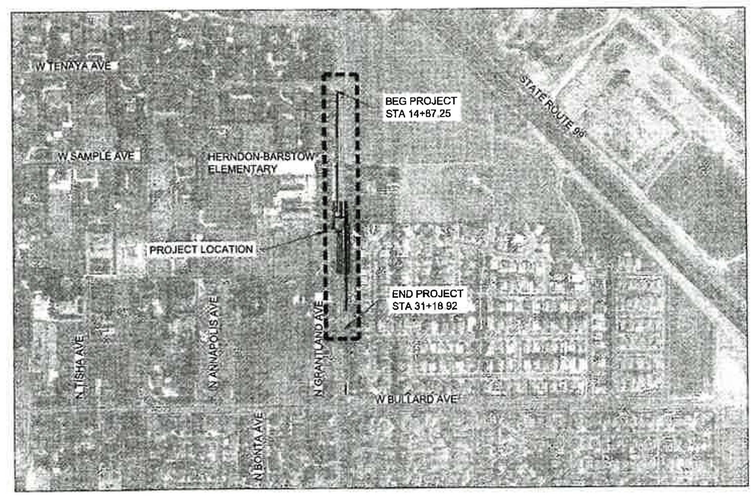
PLANS FOR CONSTRUCTION

HERNDON-BARSTOW ELEMENTARY HIGH INTENSITY ACTIVATED CROSSWALK (HAWK)

STATE PROJECT NUMBER: ATPL-5942(321)

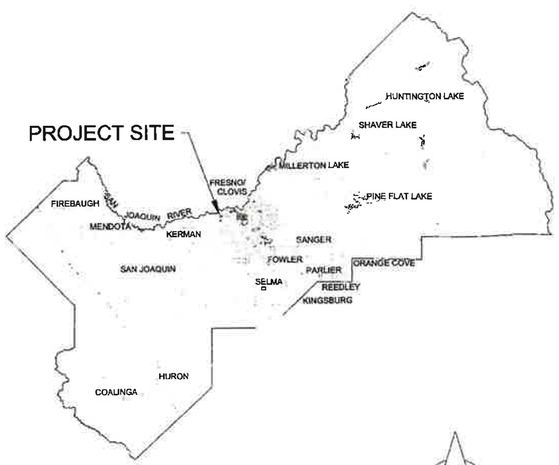
INDEX OF SHEETS



LOCATION MAP

500 250 0 500

GRAPHIC SCALE: 1"=500'



VICINITY MAP

SCALE: N.T.S.

DIVISION	DESIGN	CONST	RMO	RESC
SIGNATURE				
DATE	12/16/2024	12/16/2024	12/16/2024	

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

Brian Pacheco		1st	District
Gray Bredefeld	Vice Chairman	2nd	District
Luis Chavez		3rd	District
Ernest "Buddy" Mendes	Chairman	4th	District
Nathan Magsig		5th	District

Paul Nerland
County Administrative Officer

APPROVED Steve White Digitally signed by Steve White Date: 2024.12.17 11:20:49 -08'00'

Steven E. White, Director
Department of Public Works and Planning

APPROVED 12/20/24

Scott Mozier, Public Works Director
City of Fresno

CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT					
CLASS A, GENERAL ENGINEERING					
C-12, EARTHWORK AND PAVING					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11326	#	-	-	01	17
CONTRACT NO. 24-17-C					

RECORD DRAWING		
CONTRACTOR		
NAME		
ADDRESS		
CITY	STATE	ZIP
PHONE		
DATE AWARDED		
DATE STARTED		
DATE COMPLETED		
RESIDENT ENGINEER		
NAME	SIGNATURE	
NAME	SIGNATURE	

Y:\PROJECTS - ROAD & BRIDGE FOLDERS\ATP - HERNDON-BARSTOW ELEM. HAWK (D14502)\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\D14502T001.DWG 12/13/2024 11:21 AM - CARVONA, ERIK

2023 CALTRANS STANDARD PLANS LIST

■ INDICATES APPLICABLE PLAN

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■	A20B	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
☐	A20C	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
■	A20D	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
■	A24A	PAVEMENT MARKINGS ARROWS
☐	A24B	PAVEMENT MARKINGS ARROWS AND SYMBOLS
■	A24C	PAVEMENT MARKINGS SYMBOLS AND NUMERALS
■	A24D	PAVEMENT MARKINGS WORDS
■	A24E	PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES
■	A24F	PAVEMENT MARKINGS CROSSWALKS
■	A24G	PAVEMENT MARKINGS CROSSWALKS
☐	A62A	EXCAVATION AND BACKFILL MISCELLANEOUS DETAILS
☐	A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
☐	A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
☐	A62D	EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS
☐	A62DA	EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS INDIRECT DESIGN METHOD
☐	A62E	EXCAVATION AND BACKFILL CAST-IN-PLACE REINFORCED CONCRETE BOX AND ARCH CULVERTS
☐	A62F	EXCAVATION AND BACKFILL METAL AND PLASTIC CULVERTS
☐	A62G	EXCAVATION AND BACKFILL PRECAST REINFORCED CONCRETE BOX CULVERTS
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☐	A73B	MARKERS
☐	A73C	DELINEATORS, CHANNELIZERS, AND BARRICADES
☐	A74	SURVEY MONUMENTS
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☐	A78C1	THRIE BEAM BARRIER STANDARD HARDWARE DETAILS
☐	A78C2	THRIE BEAM BARRIER POST AND BLOCK DETAILS
☐	A78E1	SINGLE THRIE BEAM BARRIER END ANCHOR ASSEMBLY AND TERMINAL SYSTEM END TREATMENT
☐	A81C	CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)
☐	A85	CHAIN LINK FENCE
☐	A86	BARBED WIRE AND WIRE MESH FENCES
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☐	A88A	CURB RAMP DETAILS
☐	B3-3A	RETAINING WALL TYPE 1A - (CASE 1)
☐	B3-6	RETAINING WALL DETAILS No. 2
☐	D73	DRAINAGE INLETS
☐	D74A	DRAINAGE INLETS
☐	D74B	DRAINAGE INLETS
☐	D74C	DRAINAGE INLET DETAILS
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☐	D77B	GRATE DETAILS No. 2
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☐	P75	PAVEMENT EDGE TREATMENTS - OVERLAYS
☐	P76	PAVEMENT EDGE TREATMENTS - NEW CONSTRUCTION
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☐	T2	TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)
☐	T3	TEMPORARY RAILING (TYPE K)

GENERAL LEGEND

ABBREVIATIONS

AB	AGGREGATE BASE
ABUT	ABUTMENT(S)
AC	ASPHALT CONCRETE
AHD	AHEAD
ALIGN	ALIGNMENT
ALY	ALLEY
AP	ANGLE POINT
APCH	APPROACH
APPROX	APPROXIMATE ± ( )
AS	AGGREGATE SUBBASE
ASSY	ASSEMBLY
AV	AIR RELEASE VALVE
AVE	AVENUE
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCM	BRASS CAP MONUMENT
BCR	BEGIN CURB RETURN
BEG	BEGIN(ING)
BKF	BACKFILL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BR	BRIDGE
BS	BACK OF SIDEWALK
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE
CA TV	CABLE TELEVISION
C & G	CURB AND GUTTER
CC	CENTER TO CENTER
CF	CUBIC FOOT (FEET)
CFS	CUBIC FEET PER SECOND
CHNL	CHANNEL
CI	CITY
CIDH	CAST-IN DRILLED HOLE
CIP	CAST IRON PIPE
CIPCP	CAST-IN-PLACE CONCRETE PIPE
C/L (℄)	CENTER LINE
CL	CHAIN LINK
CLR	CLEAR (ING), CLEARANCE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CNL	CUT NEAT LINE
CNS	COMPACTED NATIVE SOIL
CO	COUNTY
COF	CITY OF FRESNO
COMM	COMMERCIAL
CONC	CONCRETE
CONST	CONSTRUCT (ION)
CONT	CONTINUOUS
CP	CONCRETE PIPE
CR	CURB RAMP
CS	COTTON SPINDLE
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CULV	CULVERT
CY (CU YD)	CUBIC YARD(S)

DI	DRAINAGE INLET
DIA	DIAMETER
DIR	DIRECTION
DIST	DISTANCE
DO	DRAINAGE OUTLET
DRWY	DRIVEWAY
DTL	DETAIL
EA	EACH
EASE	EASEMENT
EB	END OF BRIDGE
E/B	EAST BOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	END DIKE
ELEV	ELEVATION
(ELEV)	EXISTING ELEVATION
EMB	EMBANKMENT
EP	EDGE OF PAVEMENT
EQ	EQUAL
ES	EDGE OF SHOULDER
ETL	EDGE OF TRAVEL LANE
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST / (E)	EXISTING
EXP JT	EXPANSION JOINT
FCBCM	FRESNO COUNTY BCM
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FRE	FRESNO
FS	FINISH SURFACE
FT	FOOT (FEET)
GAL	GALLON (S)
GALV	GALVANIZED
GB	GRADE BREAK
GP	GRADING PLANE
GRUB	GRUBBING
GL	GUTTER LIP
GW	GUY WIRE
HORIZ	HORIZONTAL
HP	HINGE POINT
HS	HIGH STRENGTH
HW	HEAD WALL
HWM	HIGH WATER MARK
HWY	HIGHWAY
IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IP	IRON PIPE
IRR	IRRIGATION
IV	IRRIGATION VALVE
JP	JOINT POLE
JT	JOINT
LBS	POUNDS
LF	LINEAR FOOT
L.E.	LANDSCAPE EASEMENT
LOC	LOCATION
LOL	LAYOUT LINE

LP	LIMIT OF PAYMENT
LT	LEFT
MAX	MAXIMUM
MB	METAL BEAM
MBGR	METAL BEAM GUARD RAILING
MH	MANHOLE
MI	MILE (S)
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODIFY (IED)
MON	MONUMENT
MP	MILE POST
MTL	MATERIAL
N/A	NOT APPLICABLE
NBL	NORTH BOUND LANE
NO (#)	NUMBER
NS	NATIVE SOIL
O	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
PB	PULL BOX
PBS	PULV BIT SURF
PCC	PORTLAND CEMENT CONCRETE
P.E.	PEDESTRIAN EASEMENT
PE	POLYETHYLENE
PERM	PERMEABLE
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE
PNT	POINT
POC	POINT ON CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PPP	PERFORATED PLASTIC PIPE
PRF	PAVEMENT REINFORCING FABRIC
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PEDESTAL TELEPHONE
P-RW	PROPOSE RIGHT OF WAY
P.U.E.	PUBLIC UTILITY EASEMENT
PULV	PULVERIZED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
R & R	REMOVE AND REPLACE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCED (MENT) (ING)
REL	RELOCATE
RES	RESIDENTIAL
RET	RETAINING
RG	RUBBER GASKET
RLG	ROCK LINED GUTTER
RR	RAILROAD

RT	RIGHT
RTE	ROUTE
RW	RETAINING WALL
R/W	RIGHT OF WAY
S	SLOPE
SALV	SALVAGE
SBL	SOUTH BOUND LANE
SDWK	SIDEWALK
SEC	SECTION
SH	STATE HIGHWAY
SHLDR	SHOULDER
SHT	SHEET
S/L	SECTION LINE
SP	STANDPIPE
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
STP	STEEL PIPE
STR	STRUCTURE (S)
SURF	SURFACING
SWR	SEWER
TAN OFF	TANGENT OFFSET
TBM	TEMPORARY BM
TBR	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCP	TEMPORARY CONST PERMIT
TFC	TOP FACE OF CURB
TFP	TRANSFORMER POLE
TOT	TOTAL
TP	TELEPHONE POLE
TRANS	TRANSITION
TS	TRAFFIC SIGNAL
TYP	TYPICAL
TYP SEC	TYPICAL SECTION
UC	UNDERCROSSING
UD	UNDERDRAIN
UDR	UNDERDRAIN RISER
UG	UNDERGROUND
UP	UNDERPASS
VAR	VARIES (ABLE)
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
VP	VENT PIPE
W	WATER
W/B	WEST BOUND
WM	WATER METER
WP	WEAKENED PLANE
WR	WHEELCHAIR RAMP
WV	WATER VALVE
WW	WINGWALL

CONSTRUCTION SYMBOLS

- A — TYPE "A" CURB
- B3 — TYPE "B3" CURB
- FA — TYPE "FA" CURB
- CE — FA CURB EXTENSION
- CS — COMMERCIAL SIDEWALK
- RD — RESIDENTIAL SIDEWALK
- AS STA/W — ADJACENT RES SIDEWALK
- HW STA/D — CONCRETE HOUSEWALK
- VG STA/D — VALLEY GUTTER
- MB STA — MAIL BOX
- W STA/D — CONCRETE DRIVEWAY
- W STA/D S° — AC DRIVEWAY
- W STA/D S° — DIRT DRIVEWAY
- W STA/D — MODIFY CONC DRIVEWAY
- "W" — DENOTES WIDTH
- "D" — DENOTES MATCH DISTANCE
- "S°" — DENOTES SKEW ANGLE
- DI TC/STA — DRAINAGE INLET
- DO TC/STA — DRAINAGE OUTLET
- MH STA/OFFSET — INSTALL MANHOLE
- WV STA/OFFSET — INSTALL WATER VALVE
- MH — ADJUST MANHOLE
- AV STA/OFFSET — ADJUST AIR RELEASE VALVE
- WV — ADJUST WATER VALVE
- DD — 2" AC DEPRESSED DIKE
- ID — 4" AC INTERMEDIATE DIKE
- D — 6" AC DIKE
- R — RADIUS
- "R" — DENOTES RADIUS IN FEET
- SM — SURVEY MONUMENT
- CC — CONCRETE COLLAR
- GM — GRADE MATCH
- SC — SAW CUT
- CNL — CUT NEAT LINE
- OD STA/L — OVERSIDE DRAIN
- S — MISC TRAFFIC SIGN
- SS — STOP SIGN
- "L" — DENOTES LENGTH IN FEET
- SECTION CORNER
- MA — PLACE AC , MISC AREA
- DIRECTION OF FLOW
- GRADE TO FLOW
- CHAIN LINK FENCE
- WIRE FENCE
- HINGE POINT
- DAYLIGHT LIMIT
- DITCH FLOW LINE
- L — GP AND LP ROADWAY EXC
- X DETAIL NO. / X SHEET NO. — REFERENCE TO STATE STANDARD PLAN DETAIL
- X DETAIL NO. / X SHEET NO. — REFERENCE TO DETAIL ON DWG. OR DETAIL TITLE
- X DETAIL NO. / X SHEET NO. — SECTION CUT
- X — FLOW DIRECTION
- X — PRESSURE LINE

EXISTING IMPROVEMENTS

- A — TYPE "A" CURB
- B3 — TYPE "B3" CURB
- FA — TYPE "FA" CURB
- CS — COMM SIDEWALK
- RS — RES SIDEWALK
- VG — VALLEY GUTTER
- SM — SURVEY MON
- MB — MAIL BOX
- WIRE FENCE
- CHAIN LINK FENCE
- METAL FENCE
- WOOD FENCE
- PVC FENCE
- MISC LANDSCAPING

UTILITY SYMBOLS

- STAND PIPE
- IRR UG PIPE FLOW
- IRR UG PIPE CAPPED
- IRR VALVE SCREWGATE
- IRR TOP GATE VALVE
- IRR PIPE 12" VERTICAL
- VENT PIPE
- IRR VALVE - BUBBLER
- IRR VALVE, DRIP SYSTEM
- IRR PIPE 4" VERT OUTLET
- WATER WELL
- WATER WELL PUMP
- WATER STORAGE TANK
- FIRE HYDRANT
- IRR 2"-4" PIPE RISER
- MH-STORM DRAIN
- MH-ELECTRICAL
- MH-FO/CABLE
- MH-GAS
- MH-SANITARY SWR
- MH-TELEPHONE
- MH-WATER
- ELEC METER
- ELECTRIC VAULT
- CHRISTY BOX
- TELEPHONE VAULT
- GAS METER
- GAS VALVE
- WATER METER
- WATER VALVE
- HOSE BIB
- MH-GASOLINE FILLER
- GASOLINE VENT PIPE
- GASOLINE PUMP
- CLEAN OUT
- BACKFLOW PREVENTER
- SPRINKLER
- C — UG CABLE
- D — UG STORM DRAIN LINE
- E — UG ELECTRIC LINE
- FO — UG FIBER OPTIC
- G — UG GAS LINE
- S — UG SANITARY SEWER
- T — UG TELEPHONE LINE
- W — UG WATER LINE
- OHE — OVERHEAD ELEC LINE
- OHT — OVERHEAD TELE LINE
- G — ABANDONED UG GAS LINE
- STREET LIGHT POLE
- EXISTING SIGNAL POLE
- STORM DRAIN DROP INLET
- STORM DRAIN GRATE
- STEEL DRAIN PIPE
- DOWN DRAIN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- ELECTRIC PULL BOX
- PEDESTAL-TELEPHONE

EXISTING

- TELEPHONE POLE
- POWER POLE
- JOINT POLE
- JOINT TRANSFORMER POLE
- TRANSFORMER POLE
- GUY POLE
- GUY WIRE
- SIGN

	DATE	RECORD DRAWING	DATE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	
DRAWN: KCS	12/17/24		
CHECKED: SA	12/17/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

SUPERVISING ENGINEER — 12-17-24 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARPAIA No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT

ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

LEGEND

LG-1

DRAWING NO. 11326 — SHEET NO. 02 — TOTAL 17

GENERAL NOTES

1. BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND SIZE OF ALL UTILITIES IN THE WORK AREA.
2. TWO WORKING DAYS BEFORE PERFORMING ANY EXCAVATION THE CONTRACTOR SHALL CALL "USA" (UNDERGROUND SERVICE ALERT) TOLL FREE AT 1-800-227-2600 OR 811.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF FRESNO CONSTRUCTION MANAGEMENT DIVISION AT (559) 621-5600, A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
4. SAW-CUT AND DEMOLITION AREAS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO DEMOLITION. ANY ADDITIONAL DEMOLITION SHALL BE APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL COORDINATE WITH ANY UTILITY COMPANIES THAT REQUIRE THEIR FACILITIES TO BE ADJUSTED TO GRADE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING EACH SITE AND IDENTIFYING ANY UTILITIES THAT MAY REQUIRE ADJUSTMENT. ANY UNFORESEEN DELAY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY IN WRITING.
6. PRIOR TO CONSTRUCTING THE NEW RAMPS, THE CONTRACTOR SHALL VERIFY THE EXISTING GUTTER FLOW LINE DIRECTION. THE CONTRACTOR SHALL MAINTAIN THE EXISTING FLOW DIRECTION AND/OR ELIMINATE ANY POTENTIAL PONDING AND REVERSE FLOW WITHIN THE GUTTER.
7. THE CONTRACTOR SHALL PLACE CAUTION TAPE AND SET UP BARRICADES WITH APPROPRIATE SIDEWALK CLOSURE SIGNS PER CURRENT VERSION OF CA MUTCD SURROUNDING EACH SITE UNDER CONSTRUCTION. ADDITIONALLY THE CONTRACTOR SHALL PROVIDE SAFE ALTERNATE AND ADA ACCESSIBLE ROUTES FOR PEDESTRIANS WHILE SITES ARE UNDER CONSTRUCTION.
8. THE CONTRACTOR SHALL RECONSTRUCT EACH SITE WITHIN 7 WORKING DAYS AFTER DEMOLITION.
9. COMPACT NATIVE SOIL TO 95% RELATIVE COMPACTION UNDER CURB, GUTTER, DRIVE APPROACH AND DRIVEWAY PER CALTRANS TEST 216 AND 90% RELATIVE COMPACTION UNDER SIDEWALK AND OTHER PEDESTRIAN AREAS.
10. APPLY TACK COAT TO EXISTING AC AND CONCRETE VERTICAL SURFACES PRIOR TO PAVING.
11. WHEN RESETTING SIGNS WITHIN AREAS TO BE RECONSTRUCTED THE SIGN POSTS SHALL BE INSTALLED WITHIN A 6" (INCH) LONG X 6" (INCH) DIAMETER PVC SLEEVE. PLUG SLEEVE 2" (INCH) FROM TOP WITH CONCRETE AFTER SIGN INSTALLATION.
12. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
13. INSTALL SIDEWALKS, CURBS, AND GUTTERS AS PER CITY OF FRESNO STANDARD DRAWING P-5 AND P-9 AND IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. CURBS AND GUTTERS SHALL BE CONSTRUCTED BEFORE PLACING THE STREET SURFACING AND BASE COURSE.
14. THE TRANSITION BETWEEN THE EDGE AND END OF THE REQUIRED STREET SURFACING AND THE EXISTING SURFACING OR GROUND SHALL NOT HAVE A SLOPE STEEPER THAN 5 PERCENT.
15. TRAFFIC REQUIREMENTS
    A. ALL SIGNING, DETOURING AND BARRICADING SHALL CONFORM TO THE 2014 CALIFORNIA SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ISSUED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
    B. ALL SIGNS SHALL BE RETROFLECTIVE PER CHAPTER 2A.08 OF THE 2014 MUTCD.
    C. HIGH LEVEL WARNING DEVICES SHALL BE USED ON ALL APPROACHES TO THE CONSTRUCTION AREA.
    D. SPECIAL ATTENTION IS CALLED TO SECTION 7-10.1 THROUGH 10.3 OF THE CITY STANDARD SPECIFICATIONS.
    E. ONE (1) 12-FOOT DRIVING LANE MUST BE MAINTAINED IN EACH DIRECTION AT ALL TIMES.
    F. NO PUBLIC STREET SHALL BE CLOSED WITHOUT PRIOR APPROVAL FROM THE CITY TRAFFIC ENGINEER.
19. CONSTRUCT ACCESSIBLE RAMPS AND FINISH RAMP SURFACES AS DIRECTED BY ENGINEER.

UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.

   CALL UNDERGROUND SERVICE ALERT (USA) 811

2. WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

CITY OF FRESNO GENERAL NOTES

GENERAL NOTES, STREET PLANS:

1. INSTALL SIDEWALKS, CURBS, AND GUTTERS AS PER CITY OF FRESNO STANDARD DRAWING P-5 AND IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. CURBS AND GUTTERS SHALL BE CONSTRUCTED BEFORE PLACING THE STREET SURFACING AND BASE COURSE.
2. PERMITS MUST BE OBTAINED AND FEES PAID IN ACCORDANCE WITH ORDINANCES OF THE CITY OF FRESNO.
3. THE TYPICAL CROSS SECTIONS SHOWN SHALL BE USED ONLY FOR THE PAVEMENT STRUCTURAL SECTION, OVERLAY THICKNESS AND SIDE SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL LIMITS AND LOCATIONS OF CURB AND GUTTER, MEDIAN ISLANDS, SAWCUTTING, GRINDING, OVERLAYS, SIDEWALKS, FENCES, ROW LINES, EXISTING FEATURES AND ANY OTHER PROPOSED IMPROVEMENTS. THE TYPICAL CROSS SECTION SHOULD NOT BE USED FOR STAKING OF PROPOSED IMPROVEMENTS.
4. ALL BOUNDARY STREETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS PLAN.
5. ANY CONCRETE WORK TO BE CONSTRUCTED SHALL CONFORM TO CITY OF FRESNO STANDARDS ADOPTED BY RESOLUTION No. 70-36, AS REVISED.
6. INSTALL STREET LIGHTING SYSTEM IN ACCORDANCE WITH RESOLUTION No. 78-522 AND 88-229. LOCATION OF LIGHTS TO BE DETERMINED AND APPROVED BY THE TRAFFIC ENGINEER, SERVICE LOCATION TO BE DETERMINED BY P.G. &E. THE STREETLIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH PUBLIC WORKS STANDARDS E-1 THROUGH E-27.
7. EXISTING PAVEMENT SHALL NOT BE REMOVED UNTIL SUCH TIME AS ALL UTILITIES ARE COMPLETED AND PAVING CONTRACTOR IS READY TO REPAIR WITHIN 5 DAYS.
8. ALL STORM DRAINAGE FACILITIES ARE TO BE COMPLETED PRIOR TO START OF STREET WORK AND IN ACCORDANCE WITH FRESNO METROPOLITAN FLOOD CONTROL DISTRICT STANDARD SPECIFICATIONS AND STANDARD PLANS, APRIL 1, 2011 EDITION, AND REVISIONS THERE
9. CONTRACTOR WILL NOTIFY F.M.F.C.D CONSTRUCTION MANAGER, AT (559) 456-3292, 48 HOURS PRIOR TO CONNECTING TO ANY STORM DRAIN FACILITY.
10. CONSTRUCT ACCESSIBLE RAMPS AND FINISH RAMP SURFACES AS DIRECTED BY ENGINEER.
11. ALL SEWER MANHOLES AFFECTED BY THIS PROJECT SHALL BE ADJUSTED TO GRADE AS NECESSARY BY OTHERS.
12. ALL EXISTING WATER MAIN VALVES (CAP AND LID) SHALL BE ADJUSTED TO GRADE BY OTHERS. FOR COORDINATION WITH WATER DIVISION, CALL (559) 621-5360.
13. TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT, TOLL FREE, AT 1-800-227-2600 or 811.
14. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK TO BE PERFORMED IN THE CITY OF FRESNO ROAD RIGHT-OF-WAY. CONTACT THE CITY PERMIT ENGINEER AT (559) 262-4107 TO OBTAIN IF AN ENCROACHMENT PERMIT HAS NOT BEEN OBTAINED WITHIN 12 MONTHS OF THE APPROVAL DATE OF THESE PLANS, ADDITIONAL REVIEW ANDREVISIONS TO THE PLANS MAY BE REQUIRED BEFORE PERMIT IS ISSUED.

ELECTRICAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS DATED 2023, AND SECTIONS ES-1 THRU ES-16D OF THE STATE OF CALIFORNIA STANDARD PLANS.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES AND PROVIDE PROTECTION PRIOR TO AND DURING TRENCHING.
3. POTENTIAL OVERHEAD CONFLICT WITH HIGH VOLTAGE LINES MAY EXIST. MAINTAIN PROPER CLEARANCE. CONTACT P.G. &E. TO VERIFY WIRE LOCATION.
4. POLES SHALL BE LOCATED IN THE FIELD BY THE CITY OF FRESNO. NOTIFY TRAFFIC ENGINEERING TWO WORKING DAYS IN ADVANCE AT (559) 621-1312.
5. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND BE KEYED TO THE CITY OF FRESNO KEY. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART.
6. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
7. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
8. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FRESNO ENGINEER

GENERAL NOTES, SIGNING AND STRIPING:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE 2023 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS,INCLUDING ALL REVISIONS, THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014 CALIFORNIA MUTCD), THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS, AND THE SPECIAL PROVISIONS.
2. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000ANTI-GRAFFITI OVERLAY FILM.
3. ALL SALVAGED MATERIALS SHALL BE DELIVERED TO THE CITY OF FRESNO CORPORATION YARD AT 2101 G. STREET, FRESNO. THE CONTRACTOR SHALL NOTIFY THE CITY SIGN SHOP, (559) 621-1492, AT LEAST TWO WORKING DAYS PRIOR TO DELIVERY.
4. EXISTING STRIPING, SYMBOLS, LEGENDS, AND MARKINGS TO BE REMOVED SHALL BE DONE BY WET SANDBLASTING. DRY SANDBLASTING MAY BE USED IN SELECTED AREAS ONLY WITH THE PERMISSION OF THE CITY TRAFFIC ENGINEER AND WITH THE APPROVAL OF THE AIR POLLUTION CONTROL DISTRICT. ALTERNATE METHODS OF REMOVAL REQUIRE APPROVAL OF THE CITY TRAFFIC ENGINEER. AFTER REMOVAL, SLURRY SEAL SHALL BE APPLIED TO THE AFFECTED AREAS.
5. WITH THE EXCEPTION OF BIKE LANE SYMBOLS, ALL STRIPING SHALL BE THERMOPLASTIC.
6. ALL CROSSWALKS SHALL BE 12 FEET WIDE, OUTSIDE EDGE TO OUTSIDE EDGE.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW TYPE K-1 (CA) MARKERS ON ALL MEDIAN ISLAND NOSES, UNLESS OTHERWISE NOTED ON THE PLAN.
8. THE CONTRACTOR SHALL INSTALL DETAIL 26 (RETRO-REFLECTIVE PAVEMENT MARKERS) ALONG ALL RAISED MEDIANS, AS PER 2014 CALIFORNIA MUTCD.
9. THE CONRACTOR SHALL PAINT THE RADII OF ALL RAISED MEDIAN ISLAND NOSES WITH TWO COATS OF YELLOW TRAFFIC PAINT WITH RETRO REFLECTIVE GLASS BEADS, UNLESS OTHERWISE NOTED ON THE PLAN.
10. SIGNS SHALL BE INSTALLED PER CITY STANDARD DRAWING P-88, UNLESS OTHERWISE NOTED ON THE PLANS.
11. ALL R28(S)(CA) SIGNS SHALL BE "TOW-AWAY/NO STOPPING ANY TIME" SIGNS PER CITY STANDARD DRAWING P-91.

	DATE	RECORD DRAWING		SCALE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	DATE	
DRAWN: KCS	12/17/24			
CHECKED: SA	12/17/24			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — 12-17-24 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARKAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. BRIDGE NO.

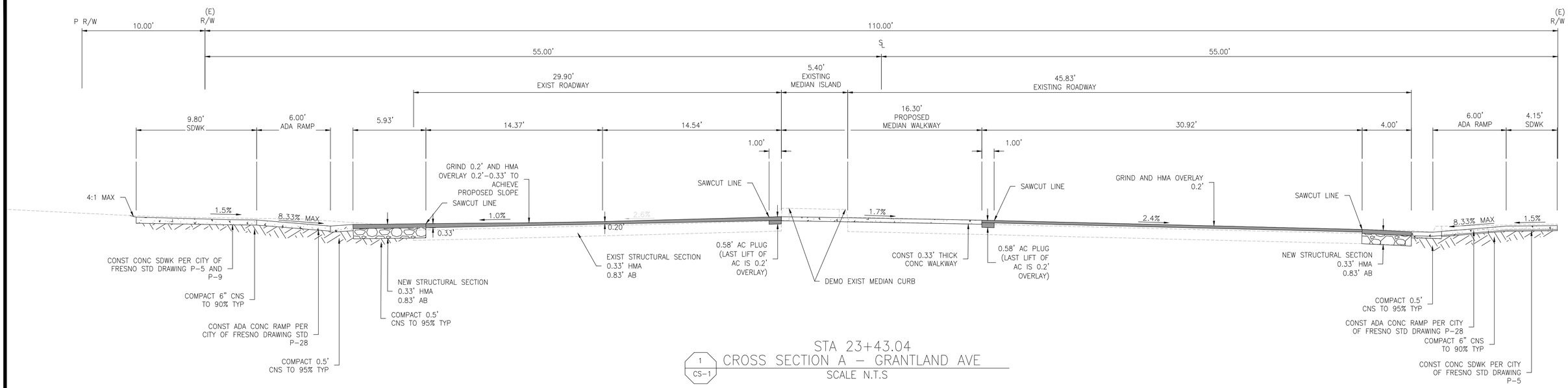
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL NOTES

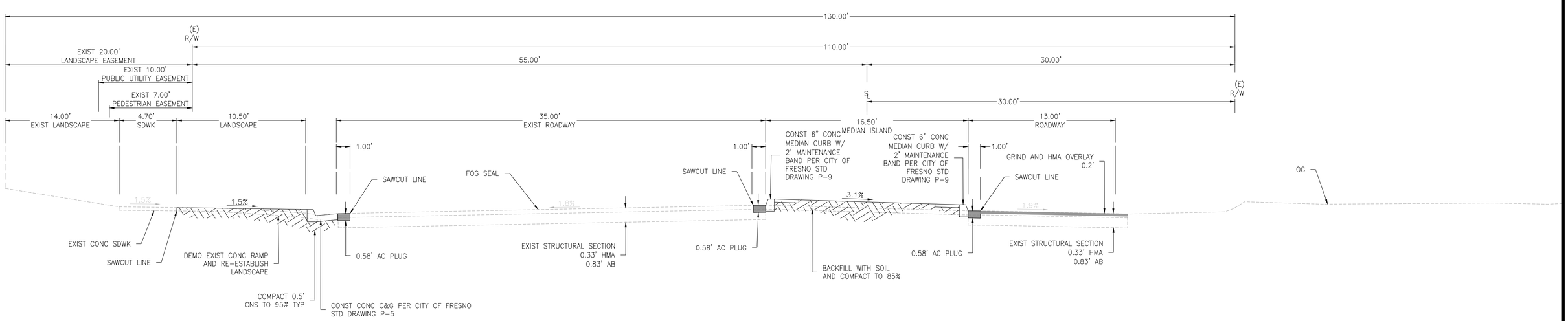
GN-1

DRAWING NO. 11326 SHEET NO. 03 TOTAL 17



1 / CS-1

STA 23+43.04
CROSS SECTION A – GRANTLAND AVE
SCALE N.T.S



2 / CS-1

STA 24+43.23
CROSS SECTION B – GRANTLAND AVE
SCALE N.T.S

	DATE	RECORD DRAWING		SCALE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	DATE	N.T.S
DRAWN: KCS	12/17/24			
CHECKED: SA	12/17/24			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ANTAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

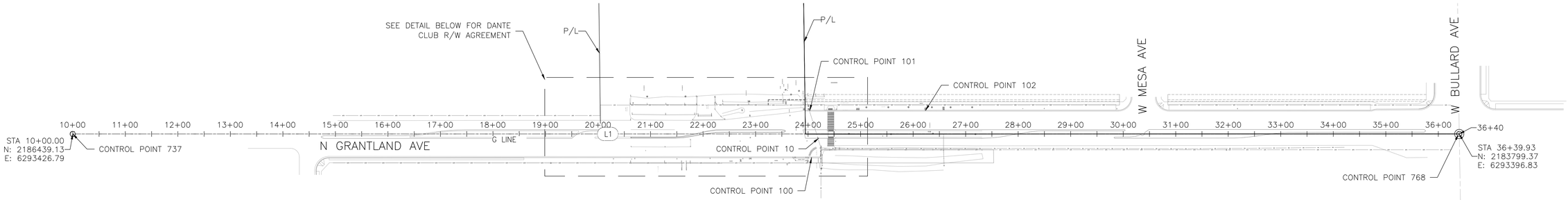
COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CROSS SECTIONS

CS-1

DRAWING NO. 11326 — SHEET NO. 04 — TOTAL 17



SURVEY CONTROL:

BASIS OF BEARINGS:

THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 4 TOWNSHIP 13 SOUTH, RANGE 19 EAST, MOUNT DIABLO BASE AND MERIDIAN WAS ASSUMED TO BEAR S 00°39'01" W.

BASIS OF VERTICAL CONTROL:

CITY OF FRESNO BENCH MARK TBM, 4768, A CHISELED BOX ON A CONCRETE MEDIAN CURB, ON THE WEST SIDE OF THE MEDIAN ISLAND, NEAR THE SOUTH PROPERTY LINE PROJECTION OF HERNDON BARSTOW SCHOOL, HAS AN NGVD29 ELEVATION OF 288.229' PER CITY OF FRESNO BENCHMARK RECORDS.

A

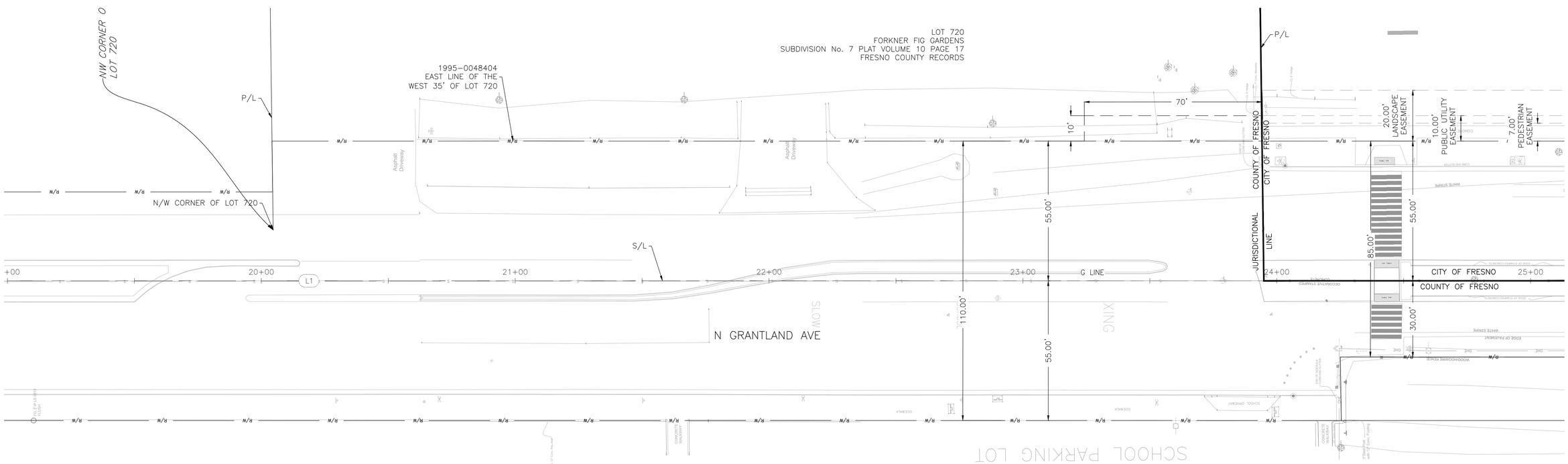
HORIZONTAL CONTROL

SCALE 1"=100'

100 50 0 100

GRAPHIC SCALE: 1"=100'

G LINE - LINE TABLE		
NUMBER	LENGTH	LINE/CHORD DIRECTION
L1	2639.93'	S00°39'00.91"W



B

RIGHT OF WAY

SCALE 1"=20'

20 10 0 20

GRAPHIC SCALE: 1"=20'

Know what's below. Call before you dig.

	DATE	RECORD DRAWING	DATE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	
DRAWN: KCS	12/17/24		
CHECKED: SA	12/17/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

SUPERVISING ENGINEER — 12-17-24 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARNAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT

ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. BRIDGE NO.

THE COUNTY OF FRESNO

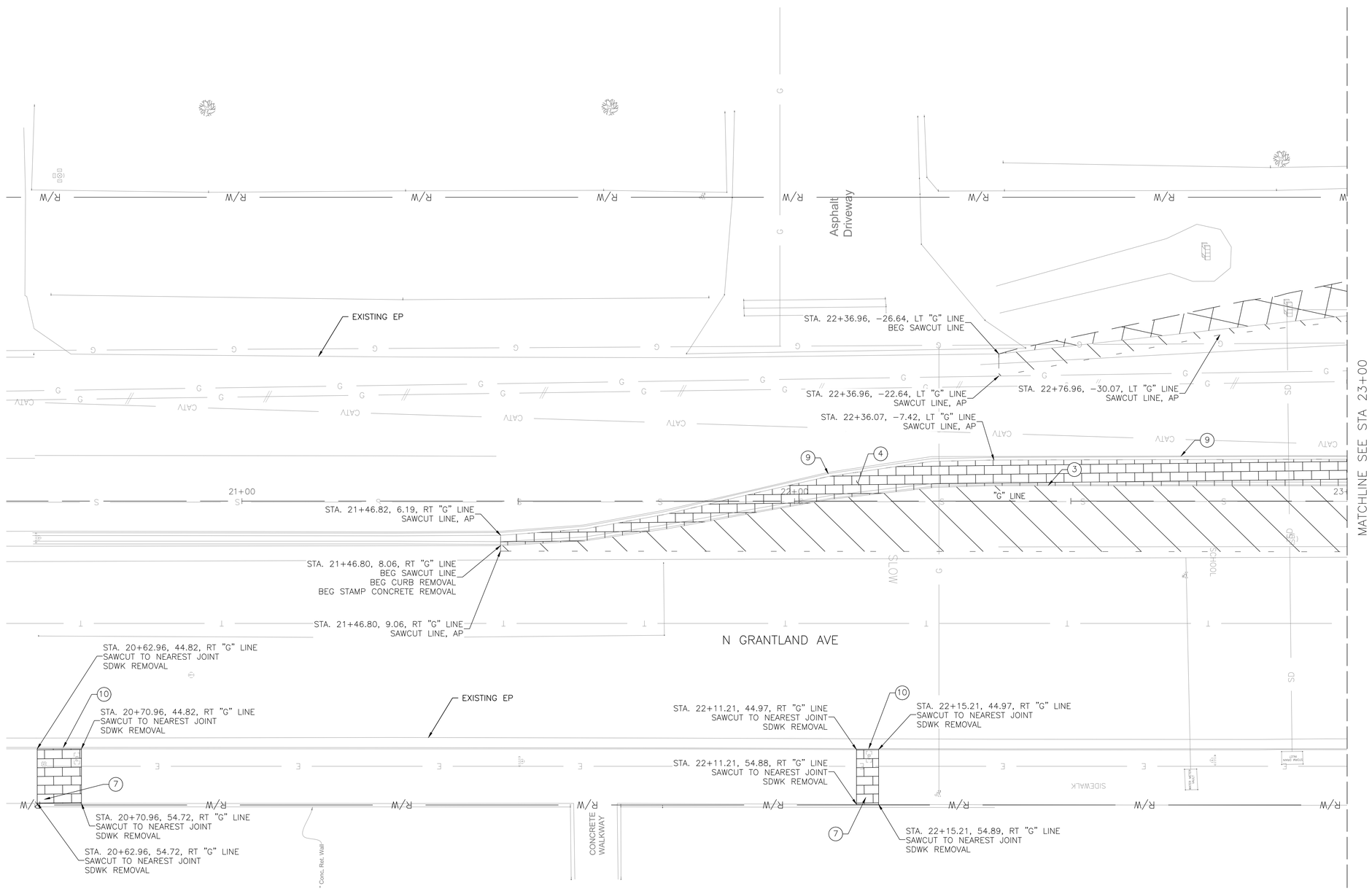
DEPARTMENT OF PUBLIC WORKS AND PLANNING

HORIZONTAL CONTROL

HC-1

DRAWING NO. 11326 SHEET NO. 05 TOTAL 17

Y:\PROJECTS – ROAD & BRIDGE FOLDERS\ATP – HERNDON-BARSTOW ELEM HAWK (D14502)\PS&ES – EXHIBITS – MAPS\CURRENT SET\SHEETS\D14502HC001.DWG 12/17/2024 8:49 AM – CARMONA, ERIK



DEMOLITION NOTES:

1. REMOVE AND DISPOSE OF CONCRETE ADA RAMP
2. REMOVE AND DISPOSE OF CONCRETE WALKWAY
3. REMOVE AND DISPOSE OF CONCRETE CURB
4. REMOVE AND DISPOSE OF STAMPED CONCRETE
5. REMOVE AND DISPOSE OF CONCRETE CURB AND GUTTER
6. REMOVE AND DISPOSE OF TRUNCATED DOMES
7. REMOVE AND DISPOSE OF SIDEWALK
8. REMOVE AND REPLACE CHANNELIZERS
9. PROTECT MEDIAN CURB IN PLACE
10. PROTECT CURB AND GUTTER IN PLACE

DEMOLITION LEGEND:

REMOVE AND DISPOSE OF ASPHALT CONCRETE

CLEAR AND GRUB

REMOVE CONCRETE WALKWAY, STAMPED CONCRETE, MEDIAN CURB, DETECTABLE WARNING DEVICE, CURB AND GUTTER, AND ADA RAMP

- - - - - - SAWCUT LINE

GENERAL NOTES:

1) FOR SIGNAGE AND STRIPING DEMOLITION AND IMPROVEMENTS SEE SHEET 11-13
2) FOR UTILITY DEMOLITION AND IMPROVEMENTS SEE SHEET 10
3) FOR IMPROVEMENTS SEE SHEET 08-09

811 Know what's below. Call before you dig.

	DATE	RECORD DRAWING	DATE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	
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SCALE: 10 5 0 10 — GRAPHIC SCALE: 1"=10'

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. APPAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO

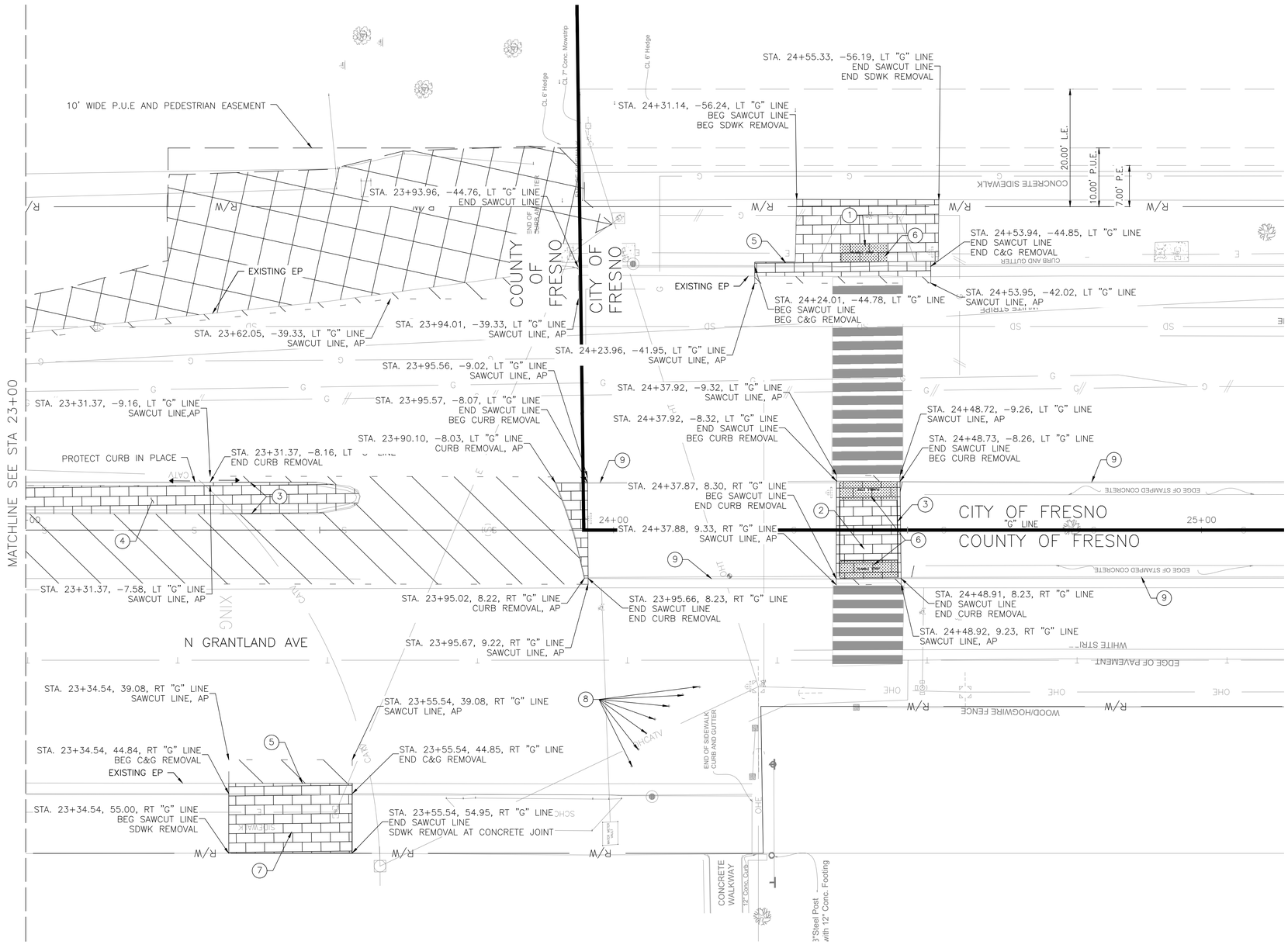
DEPARTMENT OF PUBLIC WORKS AND PLANNING

DEMOLITION PLAN

D-1

DRAWING NO. 11326 — SHEET NO. 06 — TOTAL 17

Y:\PROJECTS - ROAD & BRIDGE FOLDERS\ATP - HERNDON-BARSTOW ELEM HAWK (D14502)\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\D14502D001.DWG 12/17/2024 8:49 AM - CARMONA, ERIK



DEMOLITION NOTES:

1. REMOVE AND DISPOSE OF CONCRETE ADA RAMP
2. REMOVE AND DISPOSE OF CONCRETE WALKWAY
3. REMOVE AND DISPOSE OF CONCRETE CURB
4. REMOVE AND DISPOSE OF STAMPED CONCRETE
5. REMOVE AND DISPOSE OF CONCRETE CURB AND GUTTER
6. REMOVE AND DISPOSE OF TRUNCATED DOMES
7. REMOVE AND DISPOSE OF SIDEWALK
8. REMOVE AND REPLACE CHANNELIZERS
9. PROTECT MEDIAN CURB IN PLACE
10. PROTECT CURB AND GUTTER IN PLACE

DEMOLITION LEGEND:

REMOVE AND DISPOSE OF ASPHALT CONCRETE

CLEAR AND GRUB

REMOVE CONCRETE WALKWAY, STAMPED CONCRETE, MEDIAN CURB, DETECTABLE WARNING DEVICE, CURB AND GUTTER, AND ADA RAMP

- - - - - - SAWCUT LINE

GENERAL NOTES:

1) FOR SIGNAGE AND STRIPING DEMOLITION AND IMPROVEMENTS SEE SHEET 11-13
2) FOR UTILITY DEMOLITION AND IMPROVEMENTS SEE SHEET 10
3) FOR IMPROVEMENTS SEE SHEET 08-09

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SCALE: 10 5 0 10 — GRAPHIC SCALE: 1"=10'

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ANKAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

COUNTY OF FRESNO

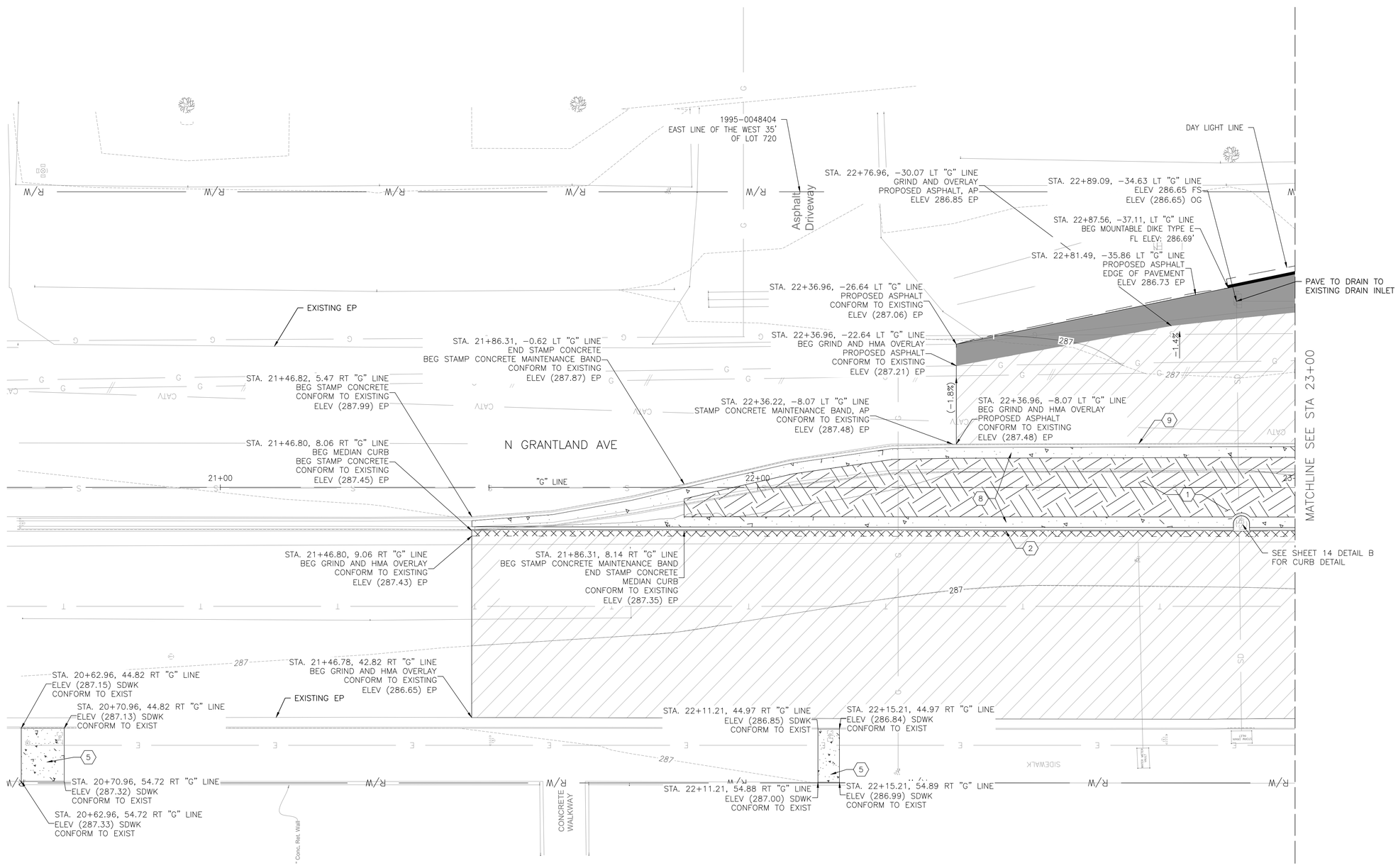
DEPARTMENT OF PUBLIC WORKS AND PLANNING

DEMOLITION PLAN

D-2

DRAWING NO. 11326 — SHEET NO. 07 — TOTAL 17

Y:\PROJECTS - ROAD & BRIDGE FOLDERS\ATP - HERNDON-BARSTOW ELEM HAWK (D14502)\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\D14502D001.DWG 12/17/2024 8:49 AM - CARMONA, ERIK



CONSTRUCTION NOTES:

1. BACKFILL WITH SOIL AND COMPACT TO 85%
2. CONSTRUCT CONCRETE MEDIAN ISLAND CURB PER CITY OF FRESNO STD DRAWING P-9
3. CONSTRUCT CONCRETE CURB AND GUTTER PER CITY OF FRESNO STD DRAWING P-5
4. CONSTRUCT ADA RAMP PER CITY OF FRESNO STD DRAWING P-28
5. CONSTRUCT 5' WIDE CONCRETE SIDEWALK PER CITY PLAN OF FRESNO STD DRAWING P-5 DIMENSIONS PER
6. FURNISH AND INSTALL DETECTABLE WARNING DEVICES PER CITY OF FRESNO STD DRAWING P-32
7. FURNISH AND INSTALL BOLLARD PER CITY OF FRESNO STD DRAWING P-61
8. CONSTRUCT 2' STAMPED CONCRETE MAINTENANCE BAND PER CITY OF FRESNO STD DRAWING P-9
9. PROTECT EXISTING MEDIAN CURB IN PLACE
10. CONTROLLER PAD. REFER TO TRAFFIC SIGNAL PLANS FOR NECESSARY UNDERGROUND SEE SHEET 15-17.
11. SIGNAL POLES PER TRAFFIC SIGNAL PLANS SEE SHEET 15-17

CONSTRUCTION LEGEND:

- 0.33' HMA/ 0.83' AB
- 12" WIDE PLUG
- CONCRETE WALK 0.42' PCC
- GRIND AND OVERLAY 0.2' HMA
- GRASS
- SOIL
- FOG SEAL

GENERAL NOTES:

1) FOR SIGNAGE AND STRIPING DEMOLITION AND IMPROVEMENTS SEE SHEET 11-13.
2) FOR UTILITY DEMOLITION AND IMPROVEMENTS SEE SHEET 10.
3) ALL STATION OFFSET ARE AT EDGE OF PAVEMENT, FLOW LINE AND SAWCUT LINES.
4) SEE SHEET 14 FOR GRADING ON CURB RAMPS AND WALKWAY.

811 Know what's below. Call before you dig.

	DATE	RECORD DRAWING	DATE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	
DRAWN: KCS	12/17/24		
CHECKED: SA	12/17/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 10 5 0 10 — GRAPHIC SCALE: 1"=10'

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. AMAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO

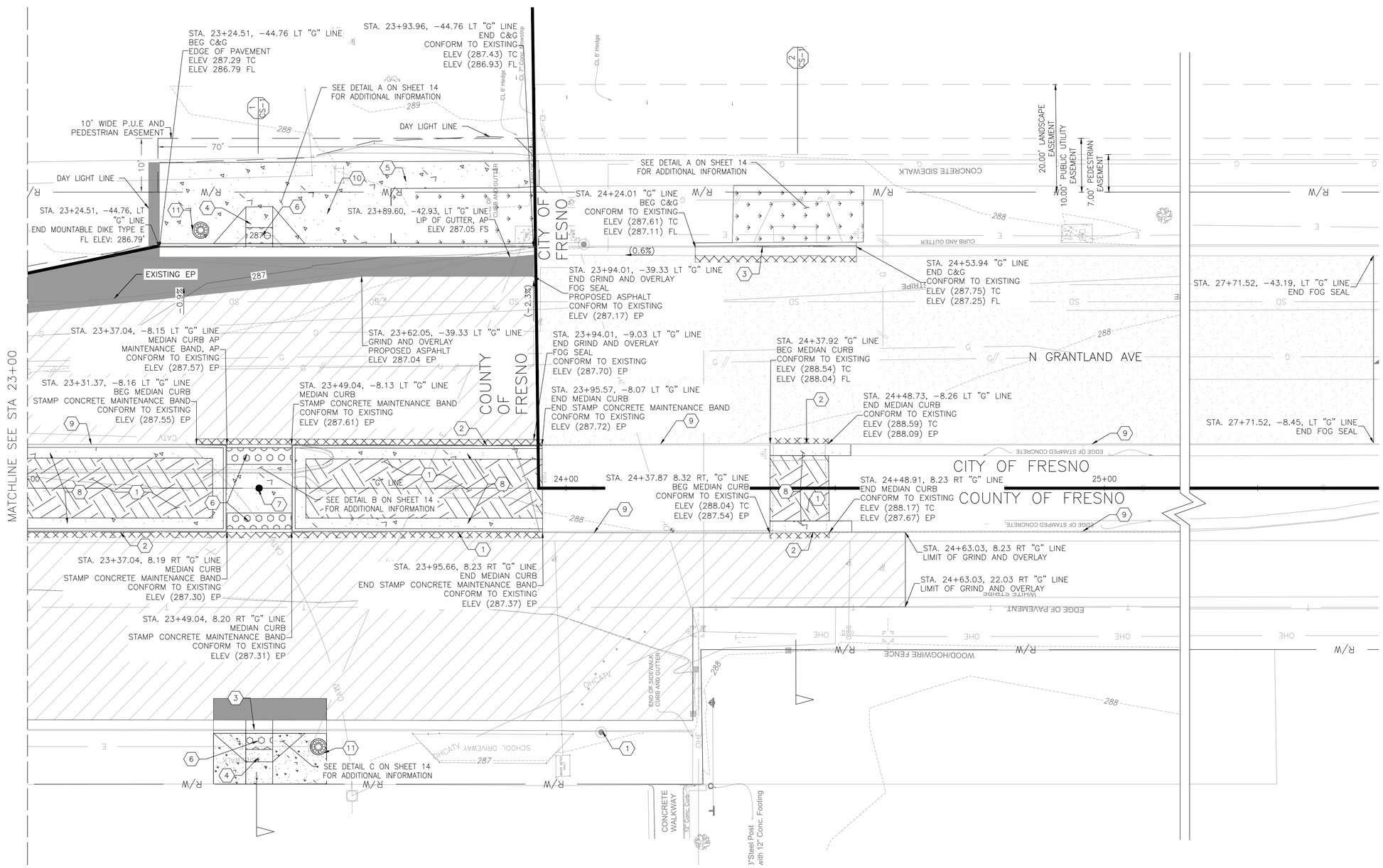
DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION PLAN

L-1

DRAWING NO. 11326 — SHEET NO. 08 — TOTAL 17

Y:\PROJECTS - ROAD & BRIDGE FOLDERS\ATP - HERNDON-BARSTOW ELEM HAWK (D14502)\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\D14502L002.DWG 12/17/2024 8:50 AM - CARMONA, ERIK



CONSTRUCTION NOTES:

1. BACKFILL WITH SOIL AND COMPACT TO 85%
2. CONSTRUCT CONCRETE MEDIAN ISLAND CURB PER CITY OF FRESNO STD DRAWING P-9
3. CONSTRUCT CONCRETE CURB AND GUTTER PER CITY OF FRESNO STD DRAWING P-5
4. CONSTRUCT ADA RAMP PER CITY OF FRESNO STD DRAWING P-28
5. CONSTRUCT 5' WIDE CONCRETE SIDEWALK PER CITY PLAN OF FRESNO STD DRAWING P-5 DIMENSIONS PER
6. FURNISH AND INSTALL DETECTABLE WARNING DEVICES PER CITY OF FRESNO STD DRAWING P-32
7. FURNISH AND INSTALL BOLLARD PER CITY OF FRESNO STD DRAWING P-61
8. CONSTRUCT 2' STAMPED CONCRETE MAINTENANCE BAND PER CITY OF FRESNO STD DRAWING P-9
9. PROTECT EXISTING MEDIAN CURB IN PLACE
10. CONTROLLER PAD. REFER TO TRAFFIC SIGNAL PLANS FOR NECESSARY UNDERGROUND SEE SHEET 15-17.
11. SIGNAL POLES PER TRAFFIC SIGNAL PLANS SEE SHEET 15-17

CONSTRUCTION LEGEND:

- 0.33' HMA/ 0.83' AB
- 12" WIDE PLUG
- CONCRETE WALK 0.42' PCC
- GRIND AND OVERLAY 0.2' HMA
- GRASS
- SOIL
- FOG SEAL

GENERAL NOTES:

1) FOR SIGNAGE AND STRIPING DEMOLITION AND IMPROVEMENTS SEE SHEET 11-13.
2) FOR UTILITY DEMOLITION AND IMPROVEMENTS SEE SHEET 10.
3) ALL STATION OFFSET ARE AT EDGE OF PAVEMENT, FLOW LINE AND SAWCUT LINES.
4) SEE SHEET 14 FOR GRADING ON CURB RAMPS AND WALKWAY.

Know what's below. Call before you dig.

	DATE	RECORD DRAWING		SCALE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	DATE	10 5 0 10
DRAWN: KCS	12/17/24			GRAPHIC SCALE: 1"=10'
CHECKED: SA	12/17/24			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. APPAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO 1856

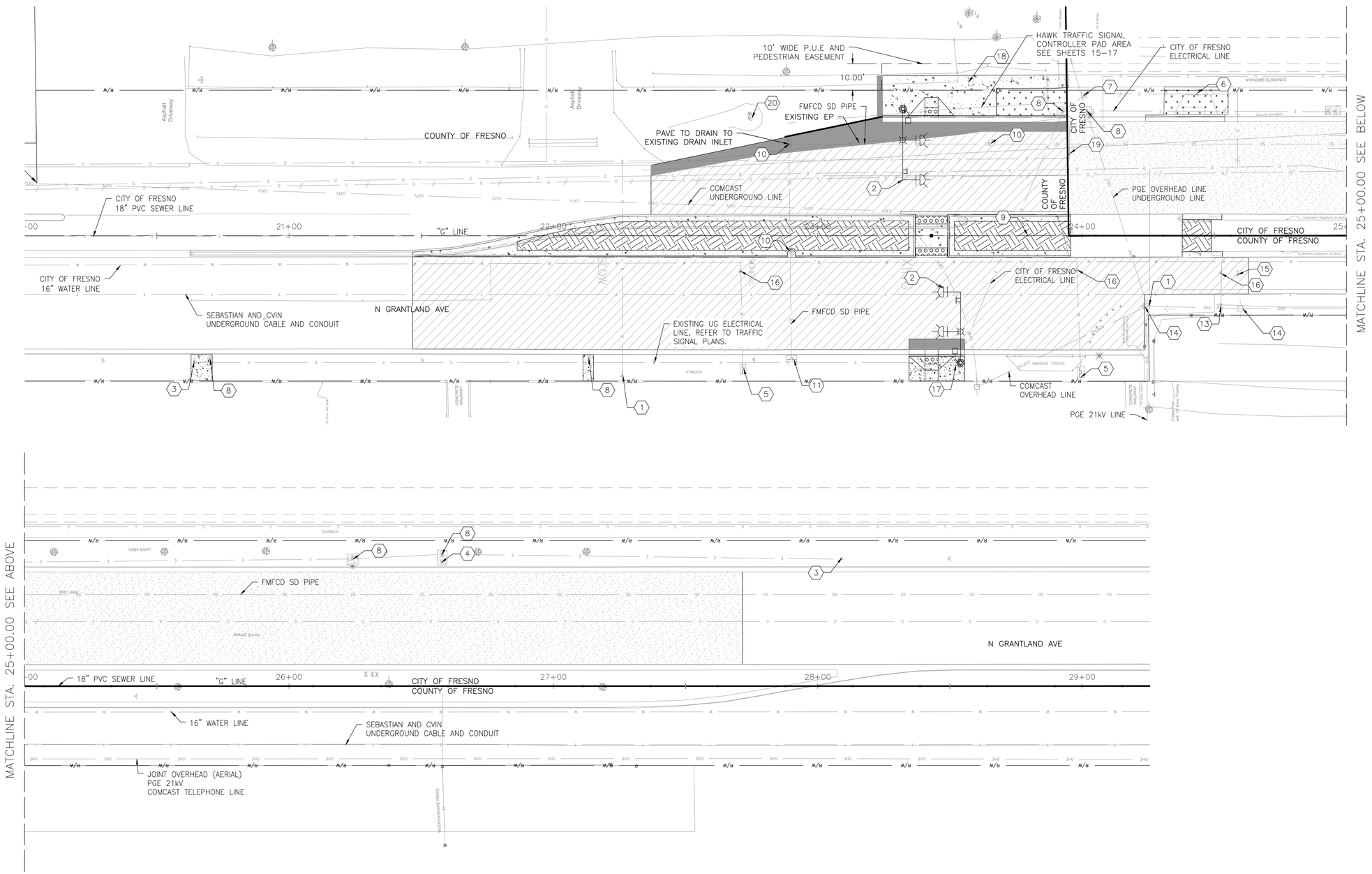
DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION PLAN

L-2

DRAWING NO. 11326 — SHEET NO. 09 — TOTAL 17

Y:\PROJECTS - ROAD & BRIDGE FOLDERS\ATP - HERNDON-BARSTOW ELEM HAWK (D14502)\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\D14502L002.DWG 12/17/2024 8:50 AM - CARMONA, ERIK



UTILITY NOTES:

1. PROTECT GAS VALVE IN PLACE
2. FURNISH AND INSTALL HIGH–INTENSITY ACTIVATED CROSSWALK PER CITY OF FRESNO STD DRAWING E–24C AND SHEET 15–17, TRAFFIC SIGNAL PLANS
3. REMOVE EXISTING FLASHING BEACON POLE REFER TO TRAFFIC SIGNAL PLANS SEE SHEETS 15–17
4. PROTECT STREET LIGHT IN PLACE
5. PROTECT WATER METER VAULT IN PLACE
6. REMOVE AND DISPOSE ABANDONED GAS VALVE BY OTHERS
7. REMOVE AND SALVAGE EXISTING CABINET TO THE CITY OF FRESNO. REFER TO TRAFFIC SIGNAL PLANS SHEET 15–17
8. REMOVE AND DISPOSE, REFER TO TRAFFIC SIGNAL PLANS SEE SHEET 15–17.
9. ADJUST SEWER MANHOLE LID TO GRADE BY OTHERS
10. ADJUST STORM DRAIN MANHOLE LID TO GRADE
11. PROTECT STORM DRAIN INLET IN PLACE
12. PROTECT WATER VALVE IN PLACE
13. PROTECT FIRE HYDRANT IN PLACE
14. PROTECT UTILITY POLE IN PLACE
15. PROTECT GAS ANODE LID IN PLACE SAWCUT SQUARE SECTIO +/– 12" OF AC AROUND LID PRIOR TO HMA GRIND
16. ADJUST WATER VALVE LID TO GRADE BY OTHERS
17. REMOVE AND DISPOSE OF PULL BOX SEE CONSTRUCTIONS NOTES SHEET 15 FOR MORE DETAILS
18. ADJUST ELECTRIC VAULT TO GRADE BY OTHERS
19. PROTECT GAS VALVE LID IN PLACE
20. EXISTING PRIVATE DRAIN INLET, PROTECT IN PLACE

GENERAL NOTES:

1) FOR SIGNAGE AND STRIPING DEMOLITION AND IMPROVEMENTS SEE SHEET 11–13
2) FOR DEMOLITION SEE SHEET 06–07
3) FOR IMPROVEMENTS SEE SHEET 08–09
4) SEE SHEET 15–17 FOR TRAFFIC SIGNAL PLANS

Know what's below. Call before you dig.

	DATE	RECORD DRAWING	DATE
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	
DRAWN: KCS	12/17/24		
CHECKED: SA	12/17/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 20 10 0 20 — GRAPHIC SCALE: 1"=20'

SUPERVISING ENGINEER — 12-17-24 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. APPAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO

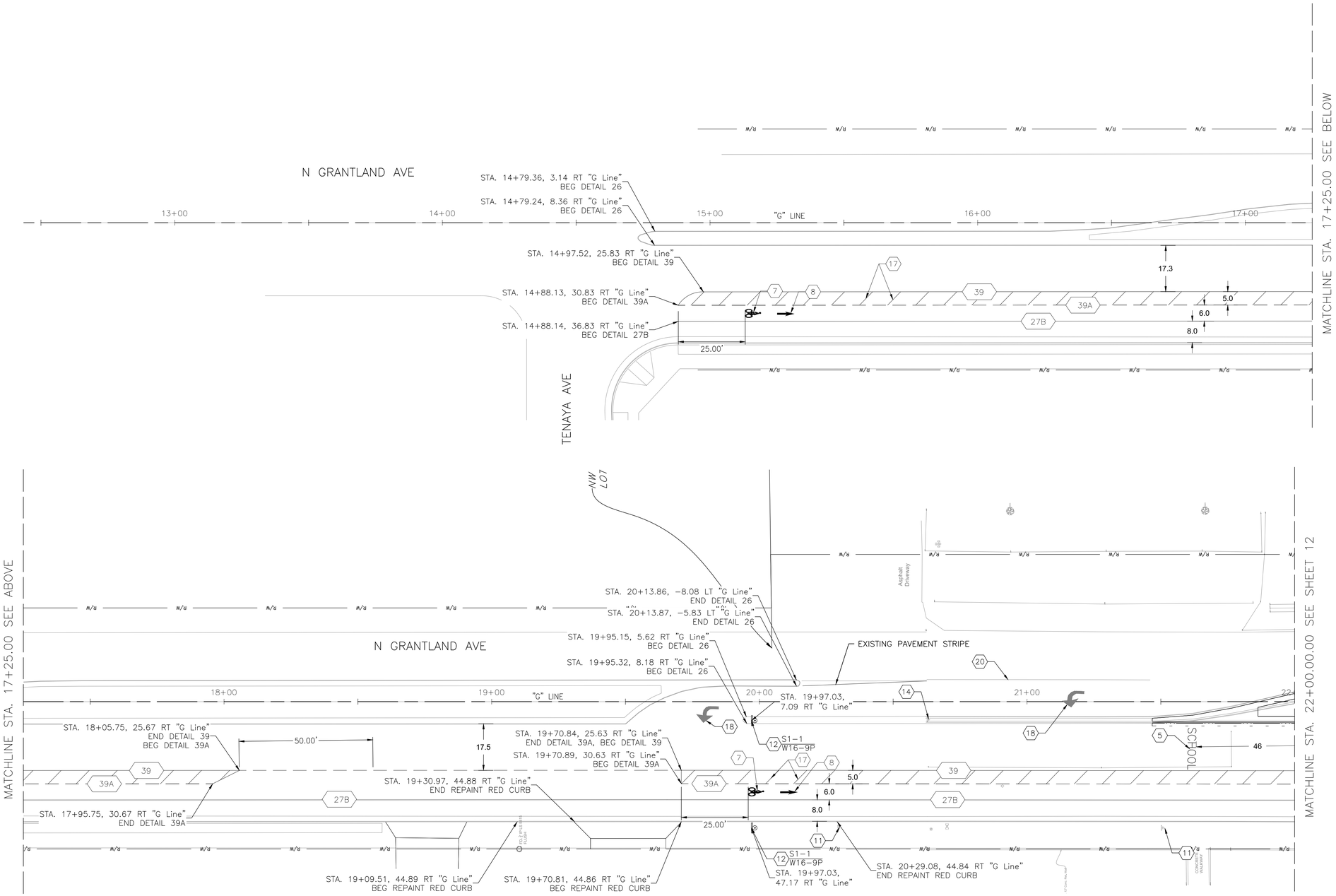
DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

U-1

DRAWING NO. 11326 — SHEET NO. 10 — TOTAL 17

Y:\PROJECTS – ROAD & BRIDGE FOLDERS\ATP – HERNDON–BARSTOW ELEM HAWK (D14502)\PS&ES – EXHIBITS – MAPS\CURRENT SET\SHEETS\D14502U001.DWG 12/17/2024 8:50 AM – CARMONA, ERIK



SIGNAGE AND STRIPING NOTES:

1. REMOVE EXISTING CROSSWALK MARKINGS (GRIND). PROVIDE PROPER NOTIFICATION BEFORE REMOVAL PER STATE REQUIREMENTS
2. REMOVE EXISTING MARKINGS
3. INSTALL HIGH VISIBILITY CROSSWALK (YELLOW CONTINENTAL) PER CALTRANS A24F
4. INSTALL "XING" MARKING (YELLOW) PER CALTRANS STD DRAWING A24
5. INSTALL "SCHOOL" MARKING (YELLOW) PER CALTRANS STD DRAWING ,
6. FURNISH AND INSTALL ROADWAY SIGN AND POST PER CITY OF FRESNO STD DRAWING P-91(NO STOPPING ANYTIME)
7. INSTALL BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD DRAWING A24C
8. INSTALL BIKE LANE ARROW MARKING PER CALTRANS STD DRAWING A24A
9. INSTALL 8" WHITE DIAGONAL MARKING EVERY 20 FEET
10. INSTALL 12" STOP LINE PER CALTRANS STD DRAWING A24G AND CITY OF FRESNO STD DRAWING E-24C
11. PROTECT EXISTING SIGN IN PLACE
12. FURNISH AND INSTALL ROADWAY SIGN AND POST (SIGN DETAIL No. SHOWN, TYP)
13. FURNISH AND INSTALL OVERHEAD HAWK SIGNAL SIGN (SIGN DETAIL No. SHOWN, TYP)
14. REMOVE AND DISPOSE SIGN
15. PLACE (3) BANDS OF YELLOW RETRO-REFLECTIVE TAPE AT 3" SPACING
16. INSTALL TYPE VI ARROW PER CALTRANS STD DRAWING A24A
17. INSTALL 6" WHITE DIAGONAL MARKING EVERY 10 FEET
18. PROTECT EXISTING PAVEMENT MARKING IN PLACE
19. INSTALL 8" WHITE DIAGONAL MARKING EVERY 5 FEET
20. PROTECT EXISTING PAVEMENT STRIPE IN PLACE
21. REMOVE AND DISPOSE SIGN AND POST, REPLACE WITH NEW P (CA) MARKER SIGN ON NEW POLE
22. INSTALL CHANNELIZERS PER CALTRANS A73C IN SAME LOCATION AS REMOVED CHANNELIZERS

No. INSTALL THERMOPLASTIC STRIPING PER CALTRANS STANDARD PLANS (DETAIL NO. SHOWN, TYP)

BEGIN/END OF TRAFFIC STRIPE DETAIL

CHANGE OF TRAFFIC STRIPE DETAIL

INSTALL TRAFFIC SIGN

REMOVE STRIPE OR MARKING

GENERAL NOTES:

1) FOR UTILITY DEMOLITION AND IMPROVEMENTS SEE SHEET 10

2) FOR DEMOLITION SEE SHEET 06

3) FOR IMPROVEMENTS SEE SHEET 08

4) THE MINIMUM HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENCE OF CURB, MEASURED VERTICALLY FORM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY, OF SIGNS INSTALLED AT THE SIDE OF THE ROAD, SHALL BE 7 FEET.

5) REMOVE EXISTING MARKERS ALONG MEDIAN (DETAIL 26), FROM STATION 14+79 TO STATION 35+72.

6) DETAIL 39 AND 39A SHALL BE STRIPE IN PAINT ON COUNTY JURISDICTION AND STRIPE IN THERMOPLASTIC ON CITY OF FRESNO JURISDICTION.

Know what's below. Call before you dig.

	DATE	RECORD DRAWING	
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	DATE
DRAWN: KCS	12/17/24		
CHECKED: SA	12/17/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: GRAPHIC SCALE: 1"=20' (20 10 0 20)

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. APPAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

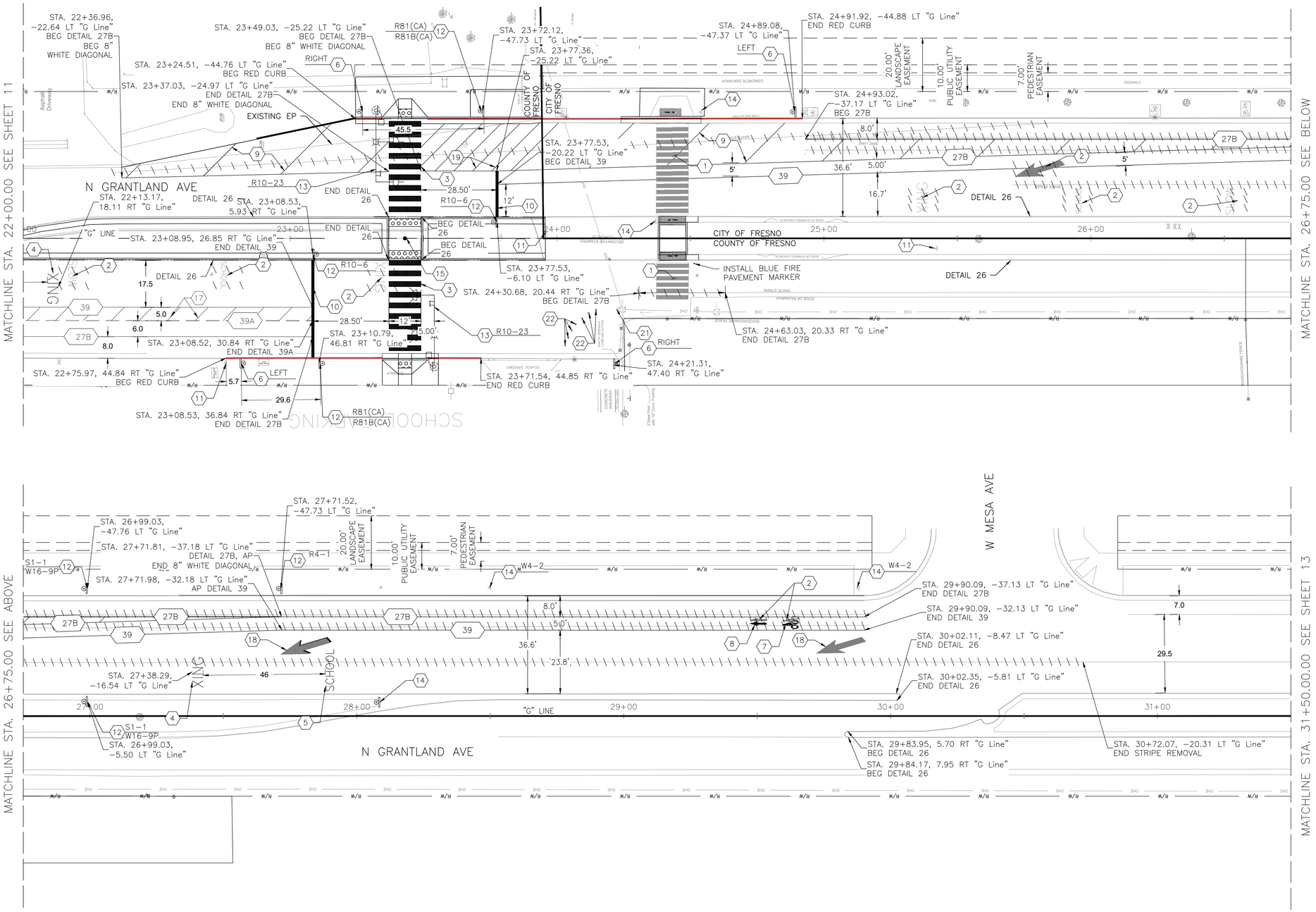
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNAGE AND STRIPING PLAN

SS-1

DRAWING NO. 11326 — SHEET NO. 11 — TOTAL 17



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2. REMOVE EXISTING MARKINGS
3. INSTALL HIGH VISIBILITY CROSSWALK (YELLOW CONTINENTAL) PER CALTRANS A24F
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6. FURNISH AND INSTALL ROADWAY SIGN AND POST PER CITY OF FRESNO STD DRAWING P-91(NO STOPPING ANYTIME)
7. INSTALL BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD DRAWING A24C
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BEGIN/END OF TRAFFIC STRIPE DETAIL

CHANGE OF TRAFFIC STRIPE DETAIL

INSTALL TRAFFIC SIGN

REMOVE STRIPE OR MARKING

GENERAL NOTES:

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2) FOR DEMOLITION SEE SHEET 06

3) FOR IMPROVEMENTS SEE SHEET 08

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CHECKED: SA	12/17/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 20 10 0 20 — GRAPHIC SCALE: 1"=20'

SUPERVISING ENGINEER — DATE: 12-17-24

REGISTERED PROFESSIONAL ENGINEER SEBOUTAN T. APAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

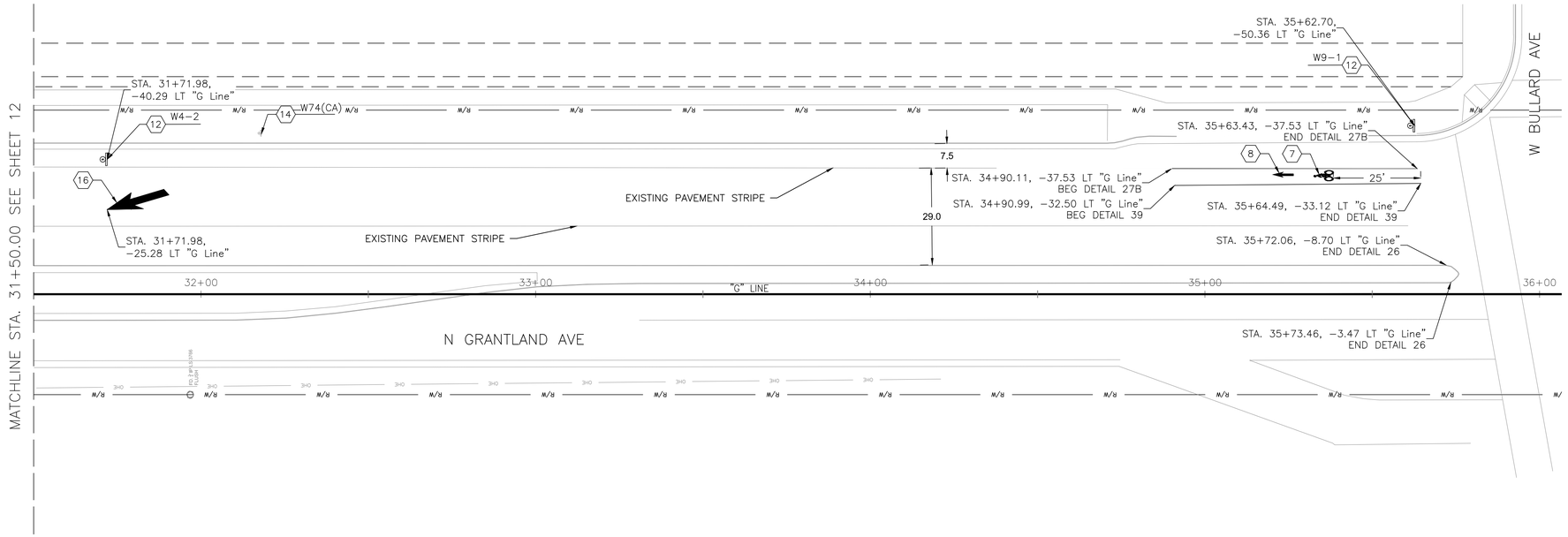
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNAGE AND STRIPING PLAN

SS-2

DRAWING NO. 11326 — SHEET NO. 12 — TOTAL 17



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BEGIN/END OF TRAFFIC STRIPE DETAIL

CHANGE OF TRAFFIC STRIPE DETAIL

INSTALL TRAFFIC SIGN

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DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	DATE	20 10 0 20 GRAPHIC SCALE: 1"=20'
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CHECKED: SA	12/17/24			

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SUPERVISING ENGINEER — 12-17-24 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARHYAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT: ATP HERNDON-BARSTOW ELEMENTARY HAWK

ROAD NO. — BRIDGE NO.

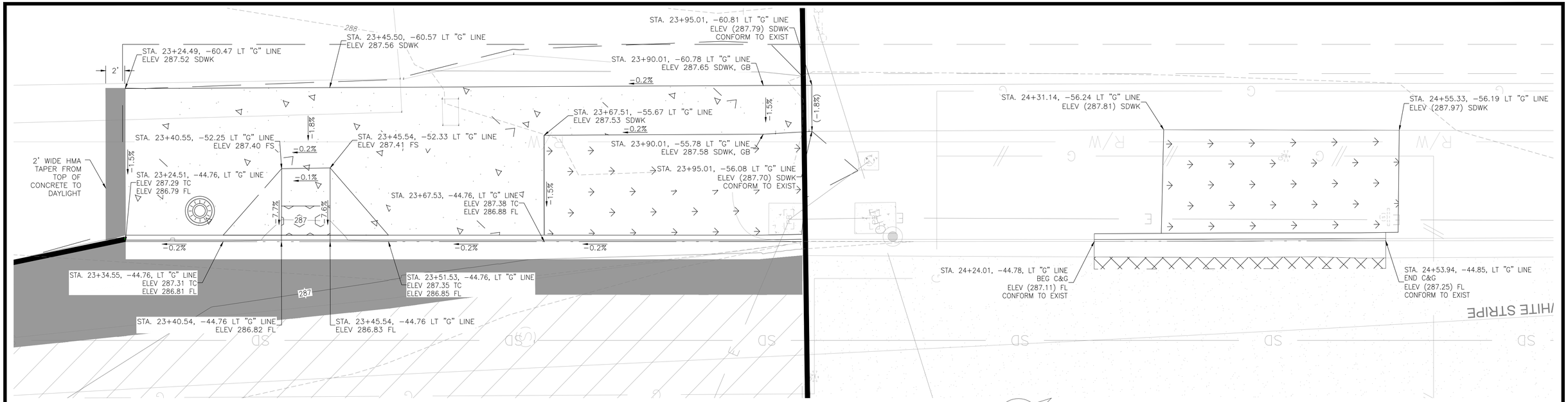
COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

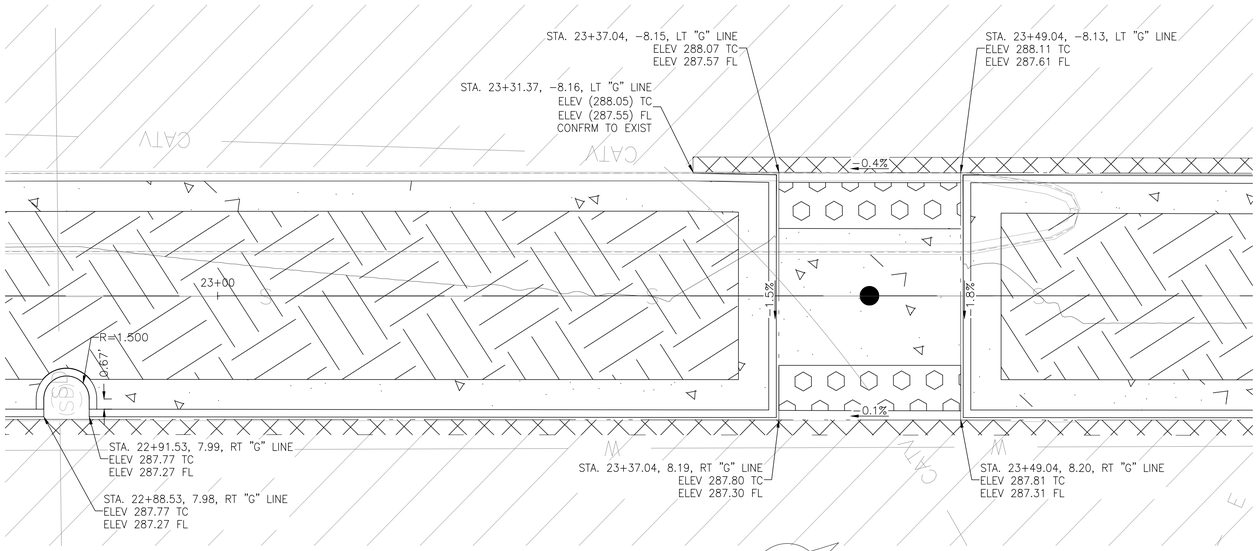
SIGNAGE AND STRIPING PLAN

SS-3

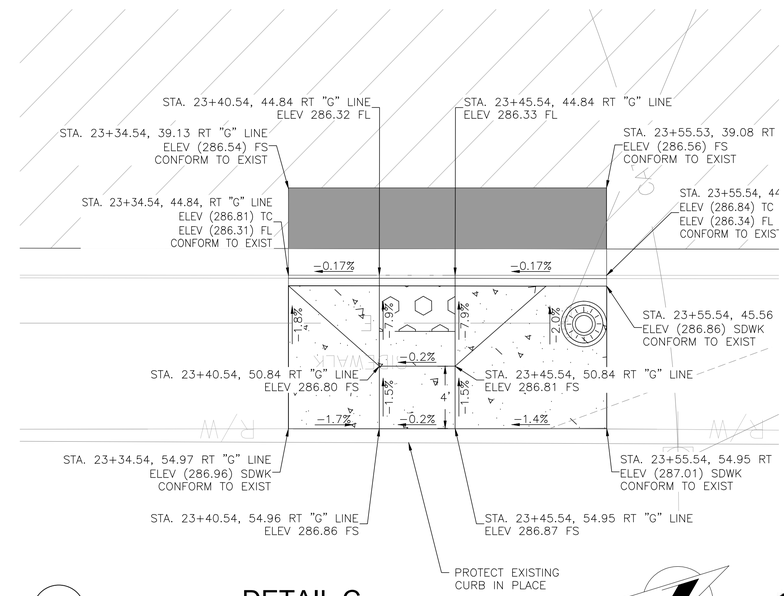
DRAWING NO. 11326 — SHEET NO. 13 — TOTAL 17



1 DETAIL A
SCALE 1"=5'



2 DETAIL B
SCALE 1"=5'



3 DETAIL C
SCALE 1"=5'

Know what's below. Call before you dig.

	DATE	RECORD DRAWING	
DESIGNED: KCS	12/17/24	RESIDENT ENGINEER	DATE
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SCALE
10 5 0 10
GRAPHIC SCALE: 1"=10'

SUPERVISING ENGINEER — 12-17-24 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. APPAL No. C76724 CIVIL STATE OF CALIFORNIA

PROJECT
ATP HERNDON-BARSTOW ELEMENTARY HAWK
ROAD NO. BRIDGE NO.

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GRADING DETAILS
CD-1
DRAWING NO. 11326 SHEET NO. 14 TOTAL 17

Y:\PROJECTS – ROAD & BRIDGE FOLDERS\ATP – HERNDON-BARSTOW ELEM HAWK (D14502)\PS&ES – EXHIBITS – MAPS\CURRENT SET\SHEETS\D14502DTL001.DWG 12/17/2024 8:51 AM – CARMONA, ERIK

CONSTRUCTION NOTES

1. FURNISH AND INSTALL TYPE 332L CABINET AND FOUNDATION. THE CABINET SHALL COME EQUIPPED WITH ALL ANCILLARY DEVICES FOR A FULL EIGHT PHASE OPERATION AS SPECIFIED IN THE SPECIFICATIONS. CABINET SHALL BE MODIFIED PER CITY OF FRESNO STANDARD E-34A AND E-34B FOR PREEMPTION AND C11'S CABLE CABLING. CONTRACTOR SHALL FURNISH AND INSTALL RELAY COMPONENTS AND WIRING PER CITY OF FRESNO STANDARD E-34D. CONTRACTOR SHALL FURNISH NEW 2070LX PART NUMBER 2070-F6330601510 PER PROJECT SPECIFICATIONS AND COORDINATE THROUGH CONSTRUCTION MANAGEMENT THE DELIVERY OF THE 2070LX TO COUNTY OF FRESNO FOR BENCH TESTING & PROGRAMMING. THE INSTALLATION OF THE TRAFFIC SIGNAL CONTROLLER BY COUNTY OF FRESNO, PENDING COUNTY OF FRESNO INSPECTION PER CITY OF FRESNO STANDARD SPECIFICATIONS SECTION 23-1.25. FOUNDATION PER CALTRANS STANDARD PLAN ES-3C AND MODIFIED PER CITY OF FRESNO STANDARD E-37. FRONT OF CABINET SHALL FACE SOUTH. BATTERY BACKUP SHALL BE INSTALLED PER CITY OF FRESNO STANDARD E-24C, SEE DETAIL B.

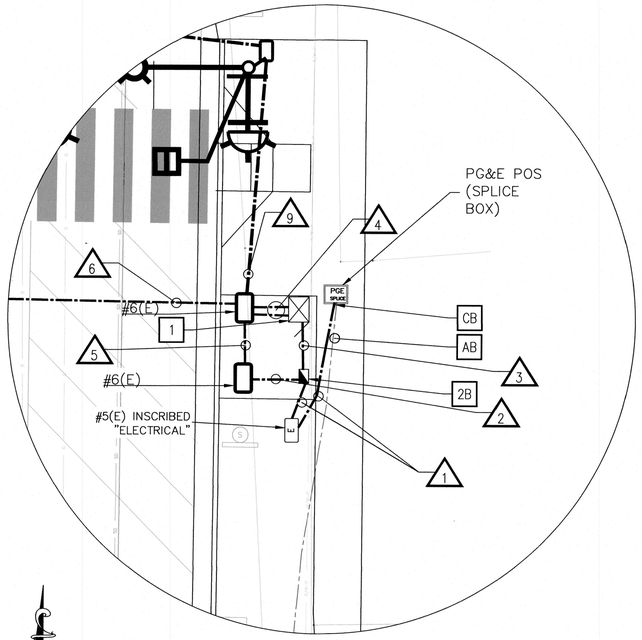
2A. CONTRACTOR SHALL REMOVE EXISTING SERVICE CABINET AND SALVAGE TO THE CITY OF FRESNO. CONTRACTOR SHALL DEMOLISH EXISTING FOUNDATION.

2B. CONTRACTOR SHALL CONSTRUCT NEW TYPE 26-100 FOUNDATION AND INSTALL NEW 26-100 SERVICE CABINET PER CITY OF FRESNO REQUIREMENTS AND SPECIFICATIONS. E-15, E-17. CONTRACTOR SHALL COORDINATE WITH PG&E TO SET NEW ELECTRICAL METER. CONTRACTOR SHALL COORDINATE SERVICE POWER DISCONNECT/RECONNECT WITH PG&E.
(ADDRESS: 6170 N. GRANTLAND).

3. REMOVE EXISTING FLASHING BEACON POLE AND ALL EQUIPMENT ATTACHED TO IT AND SALVAGE TO THE CITY OF FRESNO. COMPLETELY REMOVE AND DISPOSE OF EXISTING FOUNDATION.

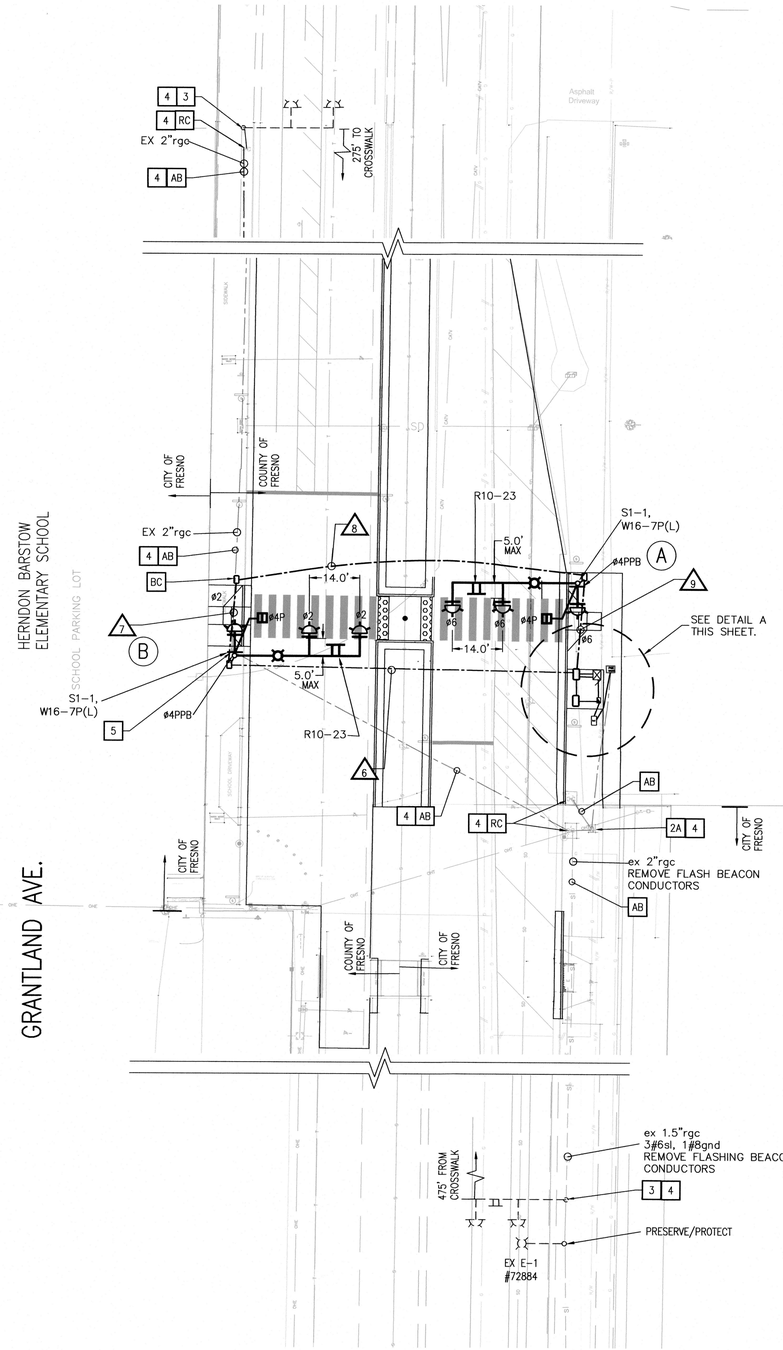
4. EXISTING FLASHING BEACON EQUIPMENT SHALL BE PROTECTED AT ALL TIMES UNTIL THE HAWK IS OPERATIONAL.

5. CONTRACTOR SHALL DEVELOP A WORK PLAN AND SUBMIT TO COUNTY OF FRESNO FOR APPROVAL PRIOR TO TEMPORARILY MOVE THE NOTED PULL BOX, CONDUIT/WIRING AS NECESSARY TO ALLOW FOR DRILLING HAWK POLE FOUNDATION. EXISTING CIRCUIT (FLASHING BEACON) SHALL REMAIN FUNCTIONAL UNTIL THE NEW HAWK SIGNAL BECOMES OPERATIONAL. CONTRACTOR TO REMOVE PULL BOX AND WIRING ONCE TRANSITION IS MADE.



DETAIL 'A'

SCALE 1"=10'
0 10 20



SCALE 1"=20'
0 20 40

HAWK SIGNAL CONSTRUCTION NOTES:

1. ANY PULL BOX ACCESSED, ADJUSTED, MODIFIED OR FALLS WITHIN THE SCOPE OF WORK SHALL BE CLEANED TO EXPOSED DRAIN HOLE, GROUTED, AND DUCT SEALED.
2. CONTRACTOR SHALL REMOVE AND REPLACE ALL AFFECTED CONCRETE AND/OR ASPHALT PAVING IMPROVEMENTS DURING CONSTRUCTION TO EXISTING CONDITIONS PER CITY STANDARDS AND TO THE SATISFACTION OF THE INSPECTOR AND/OR AS DIRECTED BY ENGINEER. REPLACEMENT AND/OR SAWCUT OF CONCRETE SHALL BE TO THE NEAREST EXISTING CONCRETE JOINTS OR SCRIBE.
3. CONTRACTOR SHALL CONTACT PG&E PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES FOR A DISCONNECT/RECONNECT OF POWER SERVICE.
4. ALL EXISTING PULL BOXES SHOWN TO REMAIN WITHOUT LOCKING LIDS SHALL HAVE LOCKING LIDS INSTALLED TO CITY OF FRESNO REQUIREMENTS.
5. EXISTING UNDERGROUND CONDUIT TO BE INCORPORATED INTO A NEW SYSTEM MUST BE CLEANED WITH A MANDREL OR CYLINDRICAL WIRE BRUSH AND BLOWN OUT WITH COMPRESSED AIR.
6. ALL SIDEWALK SHALL BE INSTALLED PER CITY OF FRESNO STANDARD DRAWING, P-5. ALL CONCRETE DISTURBED SHALL BE RESTORED.
7. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION BY ENGINEER
8. EXISTING CONDUIT SHOWN TO BE UTILIZED SHALL BE CLEANED OF DEBRIS AND HAVE A MANDREL SENT THROUGH CONDUIT PRIOR TO INSTALLATION OF NEW CONDUCTORS.

TIMING NOTE:

1. TIMING SHALL BE PROVIDED BY COUNTY STAFF OR BY A COUNTY CONSULTANT AND SHALL BE COMPLIANT TO CALIFORNIA MUTCD. THE CONSULTANT SHALL VERIFY OPERATIONS OF THE TRAFFIC SIGNAL CONTROLLER WITH TIMING, AND CONSULTANT SHALL VALIDATE OPERATIONS DURING THE TRAFFIC SIGNAL TURN-ON.

NOTE:

1. CITY APPROVAL LIMITED TO WORK WITHIN THE CITY LIMITS ONLY.

SEE ES-1A AND ES-1B OF THE 2023 CALTRANS STANDARD PLANS

AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

CB INSTALL CONDUIT INTO EXISTING PULL BOX.

BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

LEGEND

- INSTALL SIGN ON SIGNAL POLE.
- INSTALL SIGN ON SIGNAL MAST ARM.
- #6(E) INSTALL #6(E) PULL BOX PER CITY OF FRESNO STANDARDS WITH COUNTY LOCKING LID.
- INSTALL NO. 5(E) PULL BOX WITH COUNTY LOCKING LID.
- HAWK BEACON SIGNAL HEAD.

REVIEWED BY

CITY ENGINEER — DATE 12/20/2024

CITY OF FRESNO TRAFFIC ENGINEERING — DATE 12/20/2024

Underground Service Alert CALL "811" (USA NORTH) TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER TAMERA CLARK No. 61791 EXP. 06/30/25 CIVIL STATE OF CALIFORNIA
06/30/2025

PW FILE NO.	13558
PROJ. ID.	PW01050
FUND NO.	22508
ORG. NO.	189901
REF. & REV.	

GRANTLAND AVENUE HAWK TRAFFIC SIGNAL

HERNDON-BARSTOW ELEMENTARY SCHOOL HAWK SIGNAL INSTALLATION

REVIEWED: OFFICE ENG.		CITY ENG.	
DR. BY:	EMJ	SHEET NO.	15
CH. BY:	TC	OF	17 SHEETS
DATE:	12/13/2024		
SCALE:	AS SHOWN		4-E-3880

GRANTLAND HAWK PW01050

EQUIPMENT SCHEDULE

LOCATION	* POLE TYPE	MAST ARM * SIGNAL	MAST ARM * LUMINAIRE	SIGNAL MOUNTING VEHICLE	SIGNAL MOUNTING MAST ARM	SIGNAL MOUNTING PEDESTRIAN	BACK PLATE	PPB ø	PPB ARROW	LUMINAIRE WATTAGE & PGE #	SNS LEGEND	REMARKS
Ⓐ	24-4-100	35'	12'	SV-1-T	MAS3A,MAS3A	SP-1-T	3	4P	←	LED 45W #		INSTALL S1-1, W16-7P, R10-23. INSTALL PEC ON POLE A.
Ⓑ	24-4-100	35'	12'	SV-1-T	MAS3A,MAS3A	SP-1-T	3	4P	←	LED 45W #		INSTALL S1-1, W16-7P, R10-23.

LED = LED INTERSECTION SAFETY LIGHT LUMINAIRE TO BE FURNISHED AND INSTALLED. REFERENCE SECTION 23-1.23
TRAFFIC SIGNAL HEADS SHALL BE PER THE HAWK SIGNAL HEAD DETAIL (MULTI-HEAD), DETAIL THIS PLAN SET.
PEDESTRIAN HEAD SHALL BE COUNTDOWN STYLE PER CITY REQUIREMENTS.
CREE RSWS-B-HT-3ME-7L-40K7-UL-GY-N-X3-26

MID ARM TENONS ON THE SIGNAL MAST ARMS SHALL NOT BE INSTALLED. SIGNAL HEADS SHALL BE INSTALLED WITH ASTRO BRACKET OR APPROVED EQUAL.
SNS SIGNS SHALL BE PER CITY STD. P-90.

PEC SHALL BE PER CITY STANDARD SPECIFICATIONS.
ALL BACKPLATES SHALL HAVE 2 INCH MINIMUM YELLOW RETROREFLECTIVE STRIP ALONG PERIMETER OF SIGNAL BACKPLATE TO PROVIDE A RECTANGULAR APPERANCE AT NIGHT.
POLES SHALL BE PER CALTRANS 2023 PLANS

CONDUCTOR SCHEDULE

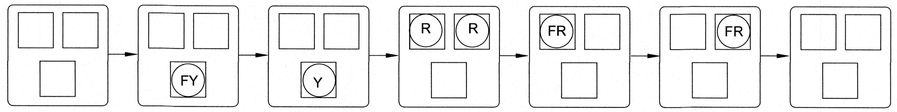
AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE 1 2"	2 2"	3 1.5"	4 2-3"	5 2"	6 3"	7 3"	8 3"	9 3"
7 COND. CABLE (VEH.) * / 5 COND. CABLE (PED.) *	A	2,6				1					1
		4P				1					1
	B	2,6				1		1			
		4P				1		1			
	TOTAL					2		1			1
						2		1			1
3 COND. CABLE (PPB) *	A	4P				1					1
	B	4P				1		1			
TOTAL						2		1			1
TYPE C DLC											
	PED PUSH BUTTON										
# 2	SERVICE		3								
# 4	SIGNAL				2						
# 6	STREET LIGHTS		NO STREET LIGHT CONDUCTORS								
# 8	SAFETY LIGHTS			2			2	2			2
# 8	BONDING WIRE		1	1	1	1	1	1	1	1	1
# 12	PEC			3			3				3
CONDUIT FILL PERCENTAGE %			14.5	4.5	10.0	6.0	2.0	7.0	1.0	1.0	7.0

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.

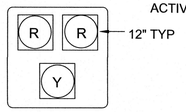
ALL CONDUCTORS/CABLES SHALL BE INSTALLED NEW.
ALL CONDUIT SHALL BE RIGID, GALVANIZED CONDUIT UNLESS OTHERWISE NOTED.

PHASING SEQUENCE

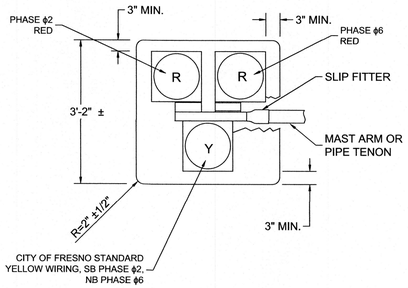
REFERENCE CITY OF FRESNO STANDARD E-24C.

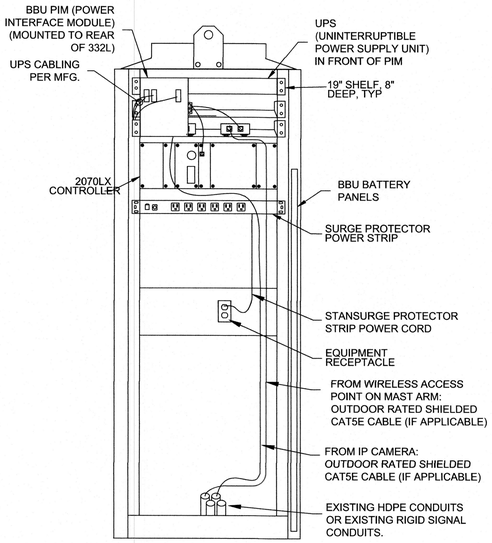


1. DARK UNTIL ACTIVATED
2. FLASHING YELLOW UPON ACTIVATION
3. STEADY YELLOW
4. STEADY RED DURING PEDESTRIAN WALK INTERVAL
5. ALTERNATING FLASHING RED DURING PEDESTRIAN CLEARANCE INTERVAL
1. DARK UNTIL ACTIVATED



HAWK 3-SECTION HEAD DETAIL





332L CABINET (REAR VIEW)

332L TYPICAL INSTALLATION NOTES:

1. FURNISH 2070LX CITY OF FRESNO SPECIFIED CONTROLLER PER PLANS.
2. FURNISH AND INSTALL 19" RACKS WITH EQUIPMENT AS SHOWN.
3. FURNISH AND INSTALL CAT 5E PATCH CABLE FROM 2070LX TO NETWORK SWITCH AS SHOWN.
4. CONNECT CAT 5E CABLE FROM WIRELESS ACCESS POINT AT MAST ARM TO POE INJECTOR AS SHOWN.
5. CONNECT CAT 5E PATCH CABLE FROM WIRELESS ACCESS POINT POE INJECTOR TO NETWORK SWITCH.
6. PLUG 2070LX INTO 332L CABINET CONTROLLER RECEPTACLE.
7. PLUG SURGE PROTECTOR POWER STRIP INTO 332L CABINET EQUIPMENT RECEPTACLE.
8. BBU PIM (POWER INTERFACE MODULE) ALSO TO BE FURNISHED AND INSTALLED (NOT SHOWN)
9. BBU BATTERY PANLES SHALL MOUNT VERTICALLY.

BATTERY BACKUP UNIT
EQUIPMENT IN 332L CABINET

DETAIL B

Underground Service Alert
CALL "811" (USA NORTH)
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER TAMERA CLARKE No. 61791 EXP. 06/30/25 CIVIL STATE OF CALIFORNIA
06/30/2025

PW FILE NO.	13558
PROJ. ID.	PW01000
FUND NO.	22308
ORG. NO.	189901
REF. & REV.	

GRANTLAND AVENUE HAWK
TRAFFIC SIGNAL

EQUIPMENT AND CONDUCTOR SCHEDULES
GENERAL NOTES

REVIEWED:			
OFFICE ENG.	ST	CITY ENG.	MM
DR. BY:	EWJ	SHEET NO.	16
CH. BY:	TC	OF	17 SHEETS
DATE:	12/13/2024		
SCALE:	AS SHOWN		4-E-3881

TRAFFIC SIGNAL NOTES

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2023 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS SHALL BE PER THE STATE STANDARD PLANS AND SPECIFICATIONS, DATED 2023.

2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.

3. SCHEDULING OF WORK SHALL CONFORM TO THE PROVISIONS IN SECTION 8-1.02, "SCHEDULING OF WORK" OF THE STATE STANDARD SPECIFICATIONS. PARTICULAR ATTENTION SHALL BE DIRECTED TO "NO ABOVE GROUNDWORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT".

4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 811, AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.

5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND/OR DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.

6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.

7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO VERIFY THE MARKED LOCATIONS.

8. WITH EXCEPTION TO A FEDERALLY FUNDED PROJECT, ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD: 3187 W. BELMONT AVENUE, FRESNO. THE CONTRACTOR SHALL SCHEDULE WITH CONSTRUCTION MANAGEMENT (559) 621-8880, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.

9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND BE KEYED TO THE COUNTY OF FRESNO KEY. CONDUIT RUN SHALL NOT EXCEED 200' WITHOUT A PULL BOX. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.

10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT LOCKING LID INSTALLED (SEE NOTE ABOVE). ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.

11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.

12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE COUNTY ENGINEER.

13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.

14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.

15. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.

16. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS OR LOOP SEALANT SHALL BE ELASTOMERIC SEALANT 3M, BLACK 5000, OR APPROVED EQUAL. (NOT APPLICABLE)

17. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2"-DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

18. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.

19. SAFTEY LUMINAIRE SHALL BE LED PER CITY OF FRESNO SPECIFICATIONS (SECTION 23-1.23) FOR SAFTEY LUMINAIRE REQUIREMENTS.

20. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18 OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.

21. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 G STREET, FRESNO, CA 93706 AND SCHEDULE WITH CONSTRUCTION MANAGEMENT AT (559) 621-8880, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. (NOT APPLICABLE)

22. CONTRACTOR SHALL SCHEDULE WITH THE COUNTY OF FRESNO ALL EQUIPMENT DELIVERIES THAT REQURIE TESTING TO THE LOCATION SPECIFIED BY THE COUNTY. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.

23. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW OVERSIZED STREET NAME SIGNS ON SIGNAL STANDARDS, AS SHOWN ON THE PLAN, PER CITY STANDARD DRAWING P-90. FURNISH AND INSTALL NEW MOUNTING BRACKETS, AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE COUNTY PRIOR TO ORDERING.

24. SIGNS SHALL BE TYPE III OR IV RETROREFLECTIVE SHEETING PER ASTM D4956-09. ALL SIGNS SHALL BE COVERED WITH A TRANSLUCENT ANTI-GRAFFITI FLUOROPOLYMER FILM THAT DOES NOT IMPAIR THE REFLECTIVITY OF THE SIGN.

25. THE CONTRACTOR SHALL CONTACT THE CITY OF FRESNO TRAFFIC OPERATIONS CENTER SUPERVISOR AT (559) 621-8669 TO OBTAIN I.T.S. EQUIPMENT SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK. (NOT APPLICABLE)

26. TONEABLE CONDUIT SHALL BE CHECKED FOR CONTINUITY AND BONDED TO EARTH GROUND.

27. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.

28. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.

29. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE COUNTY ENGINEER.

30. ALL LUMINARE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HOUSING AT EACH POLE (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).

31. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.

32. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA Inavigator2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON.

THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3 & 5. CONTRACTOR SHALL PROVIDE THE COUNTY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH COUNTY OF FRESNO TRAFFIC SIGNAL AND STREET LIGHT (TSSL) PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE COUNTY WITH THE PROGRAMMING UNIT.

33. ALL TRAFFIC SIGNAL AND STREET LIGHT MATERIALS SHALL BE REVIEWED AND APPROVED BY THE COUNTY OF FRESNO TSSL DIVISION PRIOR TO ORDERING OF MATERIALS. ALL MATERIALS NOT APPROVED PRIOR TO ORDERING SHALL BE SUBJECT TO REJECTION AT NO COST TO THE COUNTY.

34. ANY STREET LIGHT OR TRAFFIC SIGNAL PULL BOX IN THE SCOPE OF WORK OR ACCESSED BY CONTRACTOR SHALL BE CLEANED COMPLETELY, GROUTED, AND DUCT SEAL INSTALLED IN CONDUITS.

35. ANY BROKEN PULL BOX DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OR THE COUNTY.

36. ANY PULL BOX ADJUSTED TO GRADE MUST BE ABLE TO ACCEPT A CITY OF FRESNO APPROVED LOCKING LID AND THE CONDUITS MUST BE ADJUSTED TO MEET THE CITY STANDARDS.

37. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL BE TERMINATED USING AN INSULATED SPADE TERMINAL PROPERLY SIZED FOR THE WIRE ON THE SCREW. THE TERMINAL SHALL BE INSTALLED USING THE PROPER TOOLING AND TINNED WITH SOLDER PRIOR TO INSTALLATION. NO OPEN FLAME

38. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL, CITY OF FRESNO TRAFFIC OPERATIONS CENTER (TOC) STAFF, AND THE COUNTY WITH TWO (2) FULL SIZE SETS AND ONE (1) PDF COPY OF THE AS-BUILTS DRAWINGS PRIOR TO SCHEDULING OF THE INSPECTION.

39. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORTING ANCILLARY DEVICES, TO SUPPORT ALL INTERSECTION IMPROVEMENTS.

40. NO TRAFFIC SIGNAL INSPECTIONS LATER THAN 2 PM UNLESS APPROVED BY THE COUNTY.

SPECIAL NOTES:

1. CONCRETE INSTALLED OR DAMAGED BY THE CONTRACTOR WITHIN THE CITY'S JURISDICTION DURING CONSTRUCTION, SHALL BE INSTALLED OR REPLACED PER CITY STANDARDS AND TO THE SATISFACTION OF THE CITY INSPECTOR AND/OR AS DIRECTED BY THE ENGINEER OF RECORD. REPLACEMENT AND/OR SAWCUT OF CONCRETE SHALL BE TO THE NEAREST EXISTING CONCRETE JOINT.
2. CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS AS REQUIRED TO ALL AFFECTED PROPERTY OWNERS AT ALL TIMES UNTIL PERMANENT ACCESS IS COMPLETED.
3. ALL FACILITIES, SUCH AS STORM DRAIN, AND OTHER UTILITY MANHOLES, ETC., WHETHER EXISTING OR NEWLY INSTALLED BY THIS PROJECT, SHALL BE ADJUSTED TO FINAL GRADE AS NECESSARY BY THE CONTRACTOR. CITY OF FRESNO SEWER MANHOLES AND CITY WATER VALVES SHALL BE ADJUSTED BY CITY OF FRESNO DPU WITHIN THE CITY ROW. ALL ADJUSTMENTS SHALL BE COMPLETED PRIOR TO THE FINAL ACCEPTANCE OF THE WORK BY THE COUNTY.
4. CONTRACTOR SHALL COORDINATE THEIR SCHEDULE WITH ALL UTILITY COMPANIES AFFECTED BY THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR MENTIONED UTILITY COORDINATION.
5. CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 7 DAYS BEFORE STARTING WORK IN ORDER FOR THE CITY TO TAKE NECESSARY MEASURES TO PRESERVE ANY AFFECTED SURVEY MONUMENTS AND BENCH MARKS WITHIN CITY RIGHT OF WAY.
6. CONTRACTOR SHALL REPLACE AND/OR REPAIR IN KIND, ALL EXISTING AND PROPOSED IMPROVEMENTS DAMAGED DURING CONSTRUCTION, TO THE SATISFACTION OF THE INSPECTOR.
7. ALL CURB RAMPS AND IMPROVEMENTS TO BE INSTALLED WITH THIS PROJECT ARE TO BE CONSTRUCTED TO ADA STANDARDS.
8. ALL EXISTING PULL BOXES WITHIN A CURB RETURN RECONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IF APPLICABLE.
9. CONTRACTOR SHALL NOTIFY COUNTY STAFF AND CITY TRAFFIC OPERATIONS CENTER (TOC) STAFF (7) DAYS PRIOR TO SIGNAL TURN-ON.

GENERAL NOTES:

1. THE WORK AS SHOWN IN THESE CONSTRUCTION DRAWINGS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE CITY OF FRESNO STANDARD SPECIFICATIONS, LATEST EDITION, WHICH SPECIFICATIONS ARE REFERRED TO AS THE "STANDARD SPECIFICATIONS".
2. WHERE FRESNO FLOOD CONTROL DISTRICT FACILITIES ARE TO BE INSTALLED OR MODIFIED, AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION OF STORM DRAINAGE FACILITIES, THE CONTRACTOR SHALL NOTIFY THE DISTRICT'S CONSTRUCTION MANAGER AT (559) 456-3292.
3. TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT AT: 1-800-227-2600 OR 811.
4. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF AN OWNER'S WRITTEN AUTHORIZATION AND/OR SIGNED USE AGREEMENT PRIOR TO THE START OF WORK FOR ANY TEMPORARY WORK AREA, STANDING AREA, OR EQUIPMENT STORAGE FACILITIES TO BE USED FOR THIS PROJECT. AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF A WRITTEN RELEASE LETTER STATING THAT ALL TEMPORARY USE FACILITIES HAVE BEEN RESTORED BACK TO THE OWNER'S SATISFACTION.
5. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES AND PROVIDE PROTECTION PRIOR TO, AND DURING, CONSTRUCTION. THE COST OF VERIFYING THE LOCATIONS OF SAID UTILITY FACILITIES INDICATED AND/OR NOT SHOWN ON THE PLANS, INCLUDING EXPOSING THEM PRIOR TO CONSTRUCTION AND THE FULL COST OF PROTECTION, REPAIR OR REPLACEMENT OF UTILITIES SHALL BE INCLUDED IN VARIOUS BID ITEMS OF WORK WITH NO SEPARATE PAYMENT THEREOF.
6. IN THE EVENT OVERHEAD ELECTRICAL LINES EXIST WITHIN THE LIMITS OF CONSTRUCTION, MAINTAIN PROPER CLEARANCE. CONTACT P.G.&E. TO VERIFY WIRE LOCATION(S).
7. PRIOR TO ANY EXCAVATION AND/OR DIGGING, CONTRACTOR SHALL POTHOLE ALL AFFECTED UTILITY CROSSINGS TO VERIFY SIZE, DEPTH AND TYPE OF PIPE. CONTRACTOR TO PROTECT EXISTING UTILITIES TO REMAIN AT ALL TIMES DURING CONSTRUCTION.

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REGISTERED PROFESSIONAL ENGINEER
TAMERA CLARKE
No. 61791
EXP. 06/30/25
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GRANTLAND AVENUE HAWK
TRAFFIC SIGNAL

EQUIPMENT AND CONDUCTOR SCHEDULES
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