



# COUNTY OF IMPERIAL

BOWKER RD REHABILITATION FROM MCCABE RD.  
TO ROSS RD.

IN IMPERIAL COUNTY;  
FEDERAL PROJECT No. STPL 5958(130)  
COUNTY PROJECT No. 6959

## GENERAL NOTES

### STREET IMPROVEMENT GENERAL NOTES

- COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY ENCROACHMENT.
- THE STRUCTURAL SECTIONS SHALL BE IN ACCORDANCE WITH IMPERIAL COUNTY STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, GROSS GUTTER AND PAVING.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS, HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISION ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- UTILITIES COORDINATION  
NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED, THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT.  

1. IMPERIAL IRRIGATION DISTRICT (POWER)	(800) 303-7756
2. IMPERIAL IRRIGATION DISTRICT (WATER)	(760) 339-6380
3. AT&T	(337) 337-3314
4. THE GAS CO.	(800) 335-7982
5. THE CABLE COMPANY (SPECTRUM)	(760) 670-8969

### EXISTING UNDERGROUND UTILITIES

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

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

ACCURATE VERIFICATIONS AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, AT&T, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATION, IF NEEDED.
- CONSTRUCT A PUBLIC STREET LIGHT SYSTEM CONFORMING TO APPROPRIATE STANDARDS AND STREET LIGHT SPECIFICATIONS. POWER SOURCES AND RUNG SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL POWER SOURCES SHALL BE LOCATED WITHIN THE DESIGNATED RIGHT-OF-WAY OR EASEMENT.
- NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREA TO BE PAVED.
- PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS.
- ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.
- THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (442) 265-1818. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER IS 811. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS OR THEIR REPRESENTATIVE.

- NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE COUNTY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.
- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND ENCROACHMENT PERMIT CONDITIONS, ANY REFERENCED STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY, WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.
- UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED MAY 2006". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADHERE FULLY WITH THE GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY, CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812".
- CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNER/DEVELOPERS ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD, PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PLAN FOR THE SITE.
- AS DETERMINED BY THE COUNTY PUBLIC WORKS DIRECTOR/ROAD COMMISSIONER, THE DEVELOPER IS RESPONSIBLE AS A MINIMUM FOR ROAD IMPROVEMENTS TO GENERATING AND MAY BE REQUIRED TO RECONSTRUCT EXISTING PAVEMENT INCLUDING BASE AND WATCHING OVERLAY REQUIRED TO MEET THE STRUCTURAL STANDARDS FOR THE CURRENT ASSIGNED TRAFFIC INDEX.
- EXISTING STORM DRAIN PIPES/CULVERTS WHETHER TO BE CONNECTED TO, EXTENDED, ADJUSTED, DRAINED TO, OR JUST IN PROJECT VICINITY SHALL BE REPAIRED AND/OR CLEANED TO MAKE THEM FUNCTIONAL AND ACCEPTABLE AS DIRECTED BY THE PUBLIC WORKS DIRECTOR.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) OR AS DIRECTED BY THE IMPERIAL COUNTY TRAFFIC ENGINEER.
- ANY EXISTING SURVEY MONUMENTS OR COUNTY RECOGNIZED BENCHMARKS SHALL BE PROTECTED BY THE CONTRACTOR. SHOULD ANY SUCH MONUMENTS OR BENCHMARKS BE REMOVED, DAMAGED, OBLITERATED OR ALTERED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTLEMENT OF THE SAME AS PER THE SUBDIVISION MAP ACT, THE PROFESSIONAL LAND SURVEYORS ACT AND THE SATISFACTION OF THE COUNTY SURVEYOR/DIRECTOR OF PUBLIC WORKS. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY AS APPROPRIATE SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER.
- DUST SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ALL IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) FUGITIVE DUST CONTROL RULES AND REGULATIONS AND SHALL COMPLY WITH THEIR PERMITTING REQUIREMENTS, IF APPLICABLE.

THE NOTES LISTED ABOVE ARE A MINIMUM LIST. THIS DOES NOT RELIEVE THE ENGINEER FROM COMPLETING ADDITIONAL NOTES THAT MAY BE REQUIRED FOR THE PROJECT.

### GRADING PLAN GENERAL NOTES

- APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
- FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
- IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (442) 265-1818. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER IS 811. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:  

GAS	TELEPHONE NO.	(800) 335-7982
IID POWER	TELEPHONE NO.	(800) 303-7756
IID WATER	TELEPHONE NO.	(760) 339-6380
AT&T TELEPHONE	TELEPHONE NO.	(337) 337-3314
CATV	TELEPHONE NO.	(760) 670-8969
SPECTRUM COMM.	TELEPHONE NO.	(760) 670-8969
- A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT AND/OR GRADING PLAN APPROVAL.

- APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMITS HAVE BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING DEPARTMENT.
- THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS, INCLUDING ANY ON-SITE OR PERIMETER SCREEN OR RETAINING WALLS.
- ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ADJUTING CUT OR FILL SURFACES.
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILLING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE CONTRACTOR RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
- SPECIAL CONDITION IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE CONTRACTOR WILL NOTIFY THE DIRECTOR OF THE PLANNING DEPARTMENT AND THE DISCOVERY, GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING TO DO SO.
- THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER OF WORK AND APPROVED BY COUNTY PUBLIC WORKS INSPECTOR. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE.
- ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.
- ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
- DURING ROUGH GRADING OPERATIONS AND PRIOR TO THE CONSTRUCTION OF ANY PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO CONTIGUOUS PROPERTIES.
- DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE APPROVED PM10 PLAN. APPROVAL SHALL BE BY IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT.
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE EXISTING GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
- THE MAXIMUM ALLOWABLE CUT AND FILL SLOPES ARE 2:1, UNLESS A SLOPE STABILITY ANALYSIS AUTHORIZES A STEEPER SLOPE AND HAS BEEN APPROVED.
- A 5' WIDE BY 1' HIGH BERM, OR EQUIVALENT, SHALL BE CONSTRUCTED ALONG THE TOP OF ALL FILL SLOPES OVER 5' IN VERTICAL HEIGHT. ALL SLOPES LESS THAN OR EQUAL TO 5' SHALL HAVE A BERM TO PREVENT DRAINAGE FROM ERODING SAME.
- A DRAIN DITCH DESIGNED TO HANDLE THE FLOWS (Q) FROM A 100-YR. STORM EVENT SHALL BE CONSTRUCTED ALONG THE TOP OF ALL CUT SLOPES.
- NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED.
- ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION DURING STORM CONDITIONS. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT CONTIGUOUS PROPERTIES DURING GRADING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL DRAINAGE AWAY FROM BUILDINGS DURING CONSTRUCTION.
- THE FINISHED GRADE SHALL BE SLOPED AWAY FROM ALL EXTERIOR BUILDING WALLS AT NOT LESS THAN 4% (1/2" PER FOOT) FOR A MINIMUM OF 3 FEET, UNLESS A SOIL REPORT PROVIDES ALTERNATE RECOMMENDATIONS.
- A SUITABLY QUALIFIED AND REGISTERED PROFESSIONAL SHALL SUBMIT A WRITTEN CERTIFICATION TO THE PUBLIC WORKS DEPARTMENT THAT THE FINAL GRADING HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS FOR ALL GRADING DESIGNATED AS "ENGINEERED GRADING". AS-BUILT PLANS SHALL BE PROVIDED PRIOR TO FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF REQUESTING A FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO THE BUILDING PERMIT FINAL INSPECTION BY PUBLIC WORKS FOR EACH LOT.
- THE CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" AT 811 A MINIMUM OF TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY DIGGING OR EXCAVATION.

## LEGEND

ITEM NO.	ITEM	LEGEND
1.	EDGE OF EXISTING PAVEMENT	---
2.	CENTERLINE/BASELINE	---
3.	FENCE	---
4.	POWER POLE OR TELEPHONE POLE	---
5.	SIGN	---
6.	EXISTING TREES	---
7.	EXISTING SYPHON	---
8.	CALTRANS RIGHT OF WAY LINE	---
9.	IMPERIAL COUNTY RIGHT OF WAY LINE	---
10.	1-INCH GRIND OF EXISTING A.C. PAVEMENT, CLEAN AND GRADY SEAL EXISTING CRACKS, AND PLAC 2-INCHES OF A.C. PAVEMENT OVER LEVELING COURSE GEOSYNTHETIC PAVEMENT INTERLAYER.	---
11.	SHOULDER BACKING	---

## BASIS OF BEARINGS

### PROJECT BASIS OF BEARINGS

N/A

## BENCHMARK

### BENCHMARK DESCRIPTION:

N/A

### MONUMENTS DESCRIPTIONS

N/A

## ABBREVIATIONS

A.C.	ASPHALT CONCRETE	MH	MAN HOLE
APP.L	APPROXIMATE LOCATION	N.T.S.	NOT TO SCALE
B.C.	BEGINNING OF CURVE RADIUS	OHE	OVERHEAD ELECTRICAL LINE
B.M.	BENCHMARK	%	PERCENT
C	CENTERLINE	P.P.	POWER POLE
CP	CONTROL POINT	P.C.R.	POINT OF CURB RETURN
CPW	CONTROL POINT	P.R.W.	PRESCRIPTIVE RIGHT-OF-WAY
CHY	CHY	R	RADIUS
E.P.	EDGE OF PAVEMENT	R & R	REMOVE AND RELOCATE
EL	ELEVATION	ROW	RIGHT-OF-WAY
E.C.	EDGE OF CURVE RADIUS	SD	STORM DRAIN
F	FLOWLINE	TOP	TOP OF PIPE
FF	FINISH FLOOR	TO	TOP OF CURB
FS	FINISH SURFACE	T.P.	TOP OF PAVEMENT

## VICINITY MAP



## SHEET INDEX

- TITLE SHEET
- SHEET INDEX
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 4+38.90 TO STA 17+00
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 17+00 TO STA 30+75
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 30+75 TO STA 45+75
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 45+75 TO STA 60+75
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 60+75 TO STA 74+75
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 74+75 TO STA 88+05.89
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 88+05.89 TO STA 112+25
- EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 112+25 TO STA 22+43.85
- CROSS SECTIONS DETAILS
- CROSS SECTIONS DETAILS AND DETAIL SHEET
- DETAIL SHEET
- EROSION CONTROL PLAN
- EROSION CONTROL DETAILS

THE CONTRACTOR SHALL POSSESS A CALIFORNIA CONTRACTOR'S LICENSE, CLASS A, AT THE TIME THIS CONTRACT IS AWARDED.



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:

Veronica A. Tondo, P.E.  
DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
3/26/25  
DATE

61484  
R.C.E. No.  
06/30/25  
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT

APPROVED FOR CONSTRUCTION BY:  
John A. Gay, P.E.  
DIRECTOR OF PUBLIC WORKS  
3/26/25  
DATE

62028  
R.C.E. No.  
09/30/25  
REG. EXP.



DATE: 03/10/2025  
DRAWN: AG  
SCALE: N/A  
CHECKED: V.A.J.A.G.

PROJECT TITLE

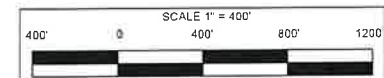
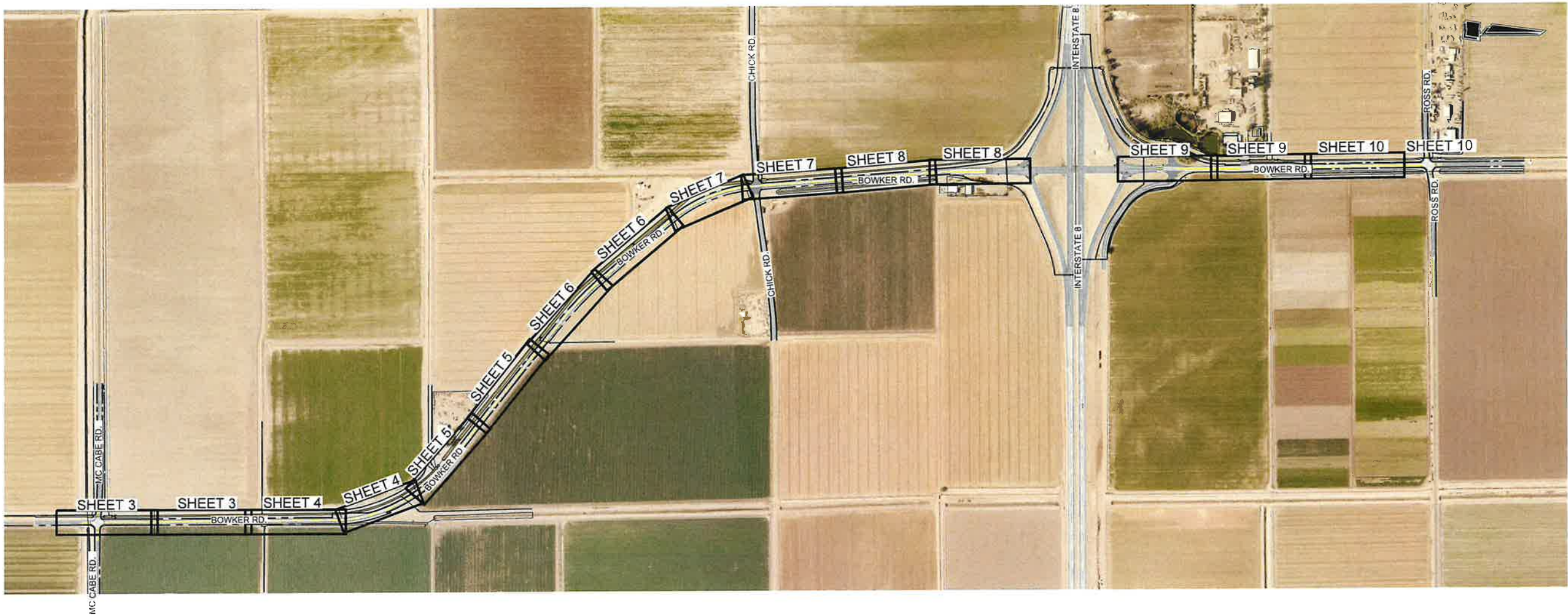
BOWKER RD. REHABILITATION FROM  
MCCABE RD. TO ROSS RD.  
IN IMPERIAL COUNTY;  
FEDERAL PROJECT No. STPL 5958(130)  
COUNTY PROJECT No. 6959

## TITLE SHEET

REFERENCE  
6959

R-1013  
SHEET 1 OF 15





REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Veronica Ayonzo*  
VERONICA AYONZO, P.E.  
DEPUTY DIRECTOR OF PUBLIC  
WORKS - ENGINEERING  
3/26/25  
DATE

61484  
R.C.E. No.  
06/30/25  
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
APPROVED FOR CONSTRUCTION BY:  
*John A. Gay*  
JOHN A. GAY, P.E.  
DIRECTOR OF PUBLIC WORKS  
3/26/25  
DATE

62028  
R.C.E. No.  
09/30/25  
REG. EXP.

PUBLIC WORKS DEPARTMENT  
COUNTY OF IMPERIAL  
EL CENTRO, CALIFORNIA

DATE  
03/10/2025  
DRAWN  
AG  
SCALE  
CHECKED  
V.A./A.G.

PROJECT TITLE  
BOWKER RD. REHABILITATION FROM  
MCCABE RD. TO ROSS RD.  
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#### SHEET INDEX

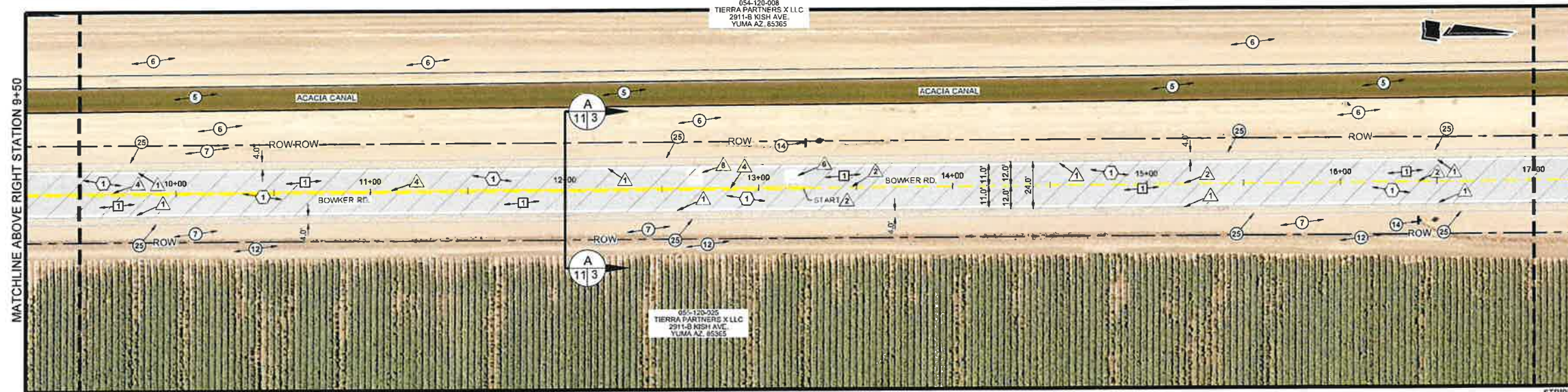
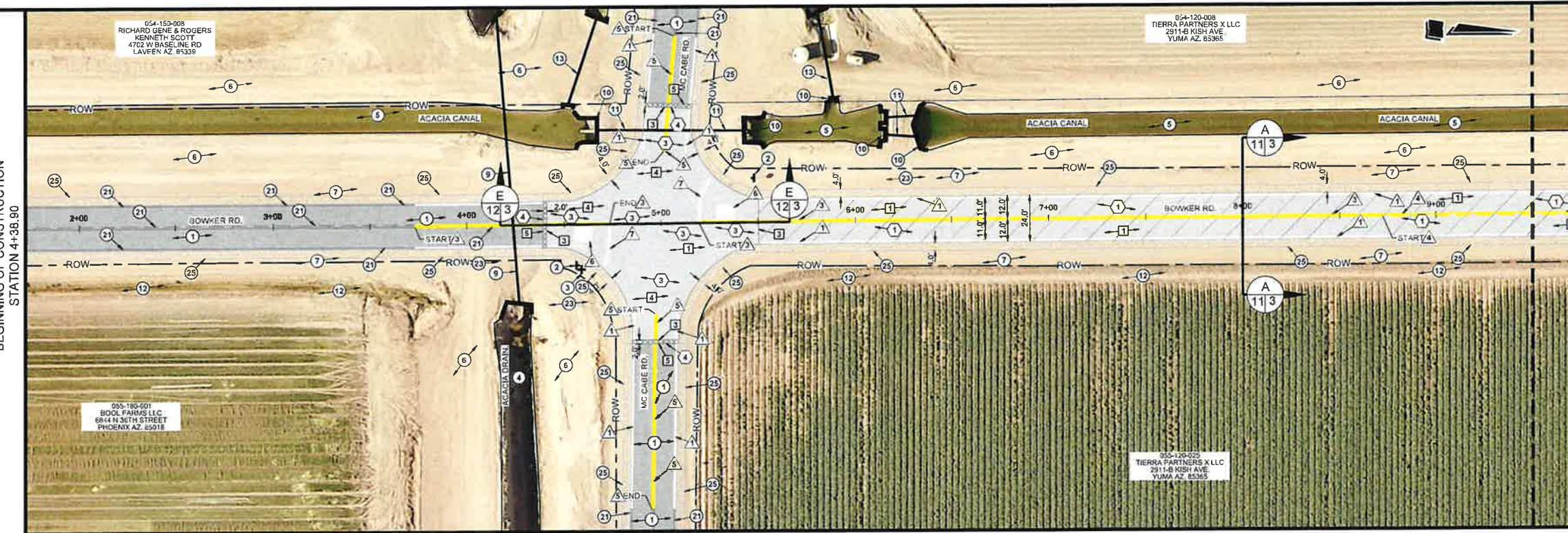
REFERENCE  
6959

R-1013  
SHEET OF  
2 15



BEGINNING OF CONSTRUCTION  
STATION 4+38.90

MATCHLINE BELOW LEFT STATION 9+50



MATCHLINE ABOVE RIGHT STATION 9+50

MATCHLINE SEE SHEET 4 ABOVE  
LEFT STATION 17+00

LEGEND

- CONTRACTOR SHALL COLD PLANE (GRIND) 1-INCH OF THE EXISTING A.C. PAVEMENT, CLEAN AND CRACK SEAL EXISTING CRACKS, AND PLACE 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER AN 1-INCH LEVELING COURSE.
- ASPHALT CONCRETE TO BE HEADER CUT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.
- INSTALL 4-FOOT WIDE CLASS 2 SHOULDER.
- INSTALL 4.5-INCHES OF A.C. PAVEMENT OVER 14-INCHES OF CLASS 2 BASE.

EXISTING KEYNOTES

- 1 EXISTING AC PAVEMENT TO REMAIN.  
2 EXISTING STOP SIGN TO REMAIN.  
3 EXISTING STREET SIGN TO REMAIN.  
4 EXISTING I/D DRAIN TO REMAIN.  
5 EXISTING I/D CANAL TO REMAIN.  
6 EXISTING ACCESS ROAD TO REMAIN.  
7 EXISTING NATIVE SURFACE TO REMAIN.  
8 EXISTING FENCE TO REMAIN.  
9 EXISTING I/D DRAIN PIPELINE TO REMAIN.  
10 EXISTING HEADWALL TO REMAIN.  
11 EXISTING I/D PIPELINE TO REMAIN.  
12 EXISTING PRIVATE IRRIGATION SWALE TO REMAIN.  
13 EXISTING UNDERGROUND PRIVATE IRRIGATION SERVICE PIPELINE TO REMAIN.

- 14 EXISTING ROAD REGULATORY SIGN TO REMAIN.  
15 EXISTING PRIVATE IRRIGATION DITCH TO REMAIN.  
16 EXISTING POWER POLE TO REMAIN.  
17 EXISTING IRRIGATION TAILWATER MANHOLE TO REMAIN.  
18 EXISTING STOP/STREET SIGN TO REMAIN.  
19 EXISTING STREET LIGHT TO REMAIN.  
20 EXISTING CALTRANS ELECTRICAL ENCLOSURE TO REMAIN.  
21 EXISTING STRIPING TO REMAIN.  
22 NOT USED.  
23 EXISTING NATIVE EARTH DRIVEWAY TO REMAIN.  
24 EXISTING P.C.C. CONCRETE SLAB TO REMAIN.  
25 EXISTING NATIVE SHOULDER TO REMAIN.

DEMOLITION KEYNOTES

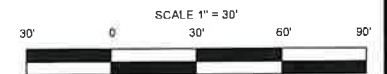
- 1 CONTRACTOR SHALL GRIND THE EXISTING A.C. PAVEMENT FOR A MAXIMUM 1-INCH IN DEPTH. THE CONTRACTOR SHALL CRACK SEAL THE EXISTING A.C. PAVEMENT AFTER GRINDING PROCESS HAS BEEN COMPLETED. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.  
2 CONTRACTOR SHALL GRIND (HEADER CUT) THE EXISTING A.C. PAVEMENT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.  
3 SAWCUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT.  
4 REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.  
5 CONTRACTOR SHALL GRIND HEADER CUT 0.12' OF EXISTING A.C. PAVEMENT, PER COUNTY OF IMPERIAL STANDARD DETAIL 453, SEE DETAIL B ON SHEET 12.  
6 CONTRACTOR TO LOWER THE STORMDRAIN GRATE AND FRAME TO 0.30 FEET BELOW GRADE PRIOR TO PAVING ACTIVITIES. SEE DETAIL C ON SHEET 12.

CONSTRUCTION KEYNOTES

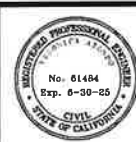
- 1 CONTRACTOR SHALL CLEAN AND SEAL ALL CRACKS WIDER THAN 1/4-INCH WITH A RUBBERIZED CRACK FILLER MATERIAL. AFTER THE GRINDING AND CRACK SEALING PROCESS HAS BEEN COMPLETED THE CONTRACTOR SHALL INSTALL 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER A 1-INCH LEVELING COURSE. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.  
2 CONTRACTOR TO INSTALL A.C. PAVEMENT AT "HEADER CUT" JOINT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.  
3 INSTALL 4.5-INCHES OF A.C. PAVEMENT OVER 18-INCHES OF CLASS 2 BASE. COMPACT CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE SECTION DETAIL E-E ON SHEET 12.  
4 INSTALL 0.12-FOOT OF A.C. PAVEMENT HEADER JOINT PER COUNTY STANDARD DETAIL 453. SEE DETAIL B ON SHEET 12.  
5 CONTRACTOR TO RAISE STORMDRAIN GRATE AND FRAME PER DETAIL C ON SHEET 12 OR AS DIRECTED BY THE ENGINEER.

STRIPING KEYNOTES

- 1 CONTRACTOR TO PAINT 6-INCH SOLID WHITE LINE.  
2 CONTRACTOR TO PAINT A 6-INCH DASH YELLOW LANELINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 5. SEE DETAIL D ON SHEET 13.  
3 CONTRACTOR TO PAINT A 6-INCH SOLID DOUBLE YELLOW LANELINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 21. SEE DETAIL D ON SHEET 13.  
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7 CONTRACTOR TO PAINT 12-INCH WIDE STOP BAR PER CALTRANS STANDARD PLAN A24G. SEE DETAIL G ON SHEET 13.  
8 CONTRACTOR TO PAINT "AHEAD" LEGEND PER CALTRANS STANDARD PLAN A24D. SEE DETAIL F ON SHEET 13.



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:  
**Veronica Atondo, P.E.**  
DEPUTY DIRECTOR OF PUBLIC WORKS  
DATE: 3/26/25

61484  
R.C.E. No.  
06/30/25  
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
APPROVED FOR CONSTRUCTION BY:  
**John A. Gay, P.E.**  
DIRECTOR OF PUBLIC WORKS  
DATE: 3/26/25

62028  
R.C.E. No.  
09/30/25  
REG. EXP.



DATE: 03/10/2025  
DRAWN: AG  
SCALE: 1" = 30'  
CHECKED: V.A./A.G.

PROJECT TITLE

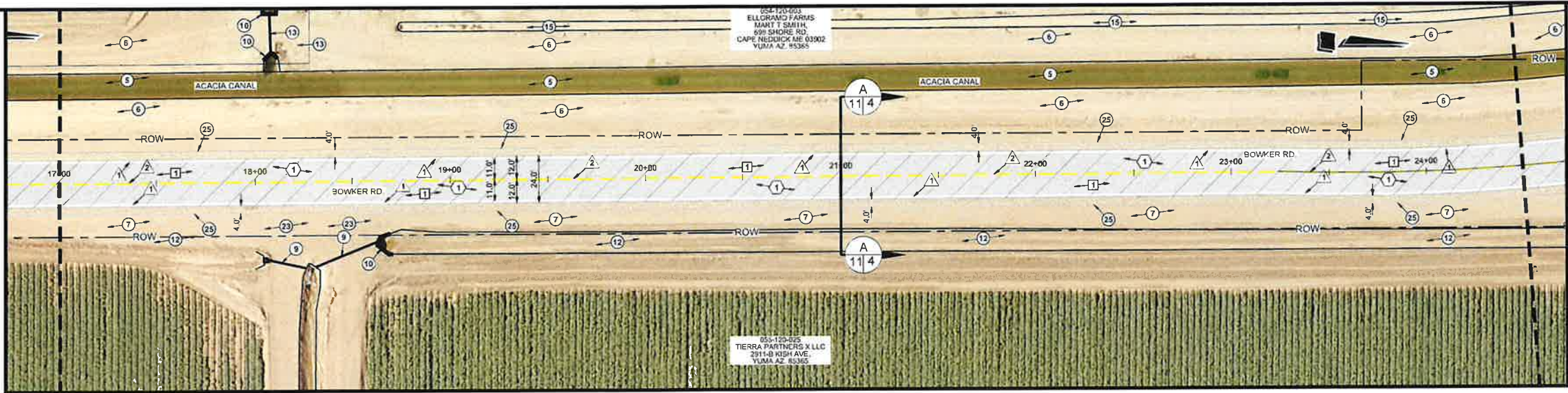
BOWKER RD. REHABILITATION FROM  
MCCABE RD. TO ROSS RD.  
IN IMPERIAL COUNTY;  
FEDERAL PROJECT No. STPL 6958(130)  
COUNTY PROJECT No. 6959

EXISTING SITE PLAN AND IMPROVEMENT PLAN  
FROM STA 4+38.90 TO STA 17+00

REFERENCE	R-1013
6959	SHEET 3 OF 15

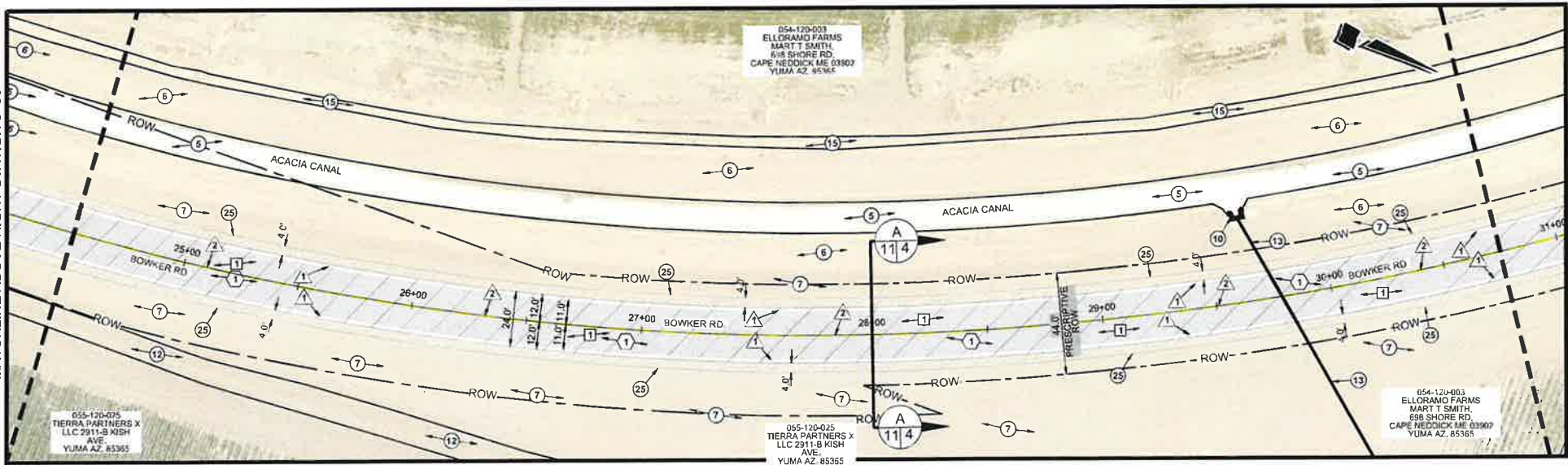


MATCHLINE SEE SHEET 3 BELOW  
RIGHT STATION 17+00



MATCHLINE BELOW LEFT STATION 24+50

MATCHLINE ABOVE RIGHT STATION 9+50



MATCHLINE SEE SHEET 5 ABOVE  
LEFT STATION 30+75

#### LEGEND

- CONTRACTOR SHALL COLD PLANE (GRIND) 1-INCH OF THE EXISTING A.C. PAVEMENT, CLEAN AND CRACK SEAL EXISTING CRACKS, AND PLACE 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER AN 1-INCH LEVELING COURSE.
- ASPHALT CONCRETE TO BE HEADER CUT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.
- INSTALL 4-FOOT WIDE CLASS 2 SHOULDER.
- INSTALL 4.5-INCHES OF A.C. PAVEMENT OVER 14-INCHES OF CLASS 2 BASE.

#### EXISTING KEYNOTES

- EXISTING AC PAVEMENT TO REMAIN.
- EXISTING STOP SIGN TO REMAIN.
- EXISTING STREET SIGN TO REMAIN.
- EXISTING I/D DRAIN TO REMAIN.
- EXISTING I/D CANAL TO REMAIN.
- EXISTING ACCESS ROAD TO REMAIN.
- EXISTING NATIVE SURFACE TO REMAIN.
- EXISTING FENCE TO REMAIN.
- EXISTING I/D DRAIN PIPELINE TO REMAIN.
- EXISTING HEADWALL TO REMAIN.
- EXISTING I/D PIPELINE TO REMAIN.
- EXISTING PRIVATE IRRIGATION SWALE TO REMAIN.
- EXISTING UNDERGROUND PRIVATE IRRIGATION SERVICE PIPELINE TO REMAIN.

- EXISTING ROAD REGULATORY SIGN TO REMAIN.
- EXISTING PRIVATE IRRIGATION DITCH TO REMAIN.
- EXISTING POWER POLE TO REMAIN.
- EXISTING IRRIGATION TAILWATER MANHOLE TO REMAIN.
- EXISTING STOP/STREET SIGN TO REMAIN.
- EXISTING STREET LIGHT TO REMAIN.
- EXISTING CALTRANS ELECTRICAL ENCLOSURE TO REMAIN.
- EXISTING STRIPING TO REMAIN.
- NOT USED.
- EXISTING NATIVE EARTH DRIVEWAY TO REMAIN.
- EXISTING P.C.C. CONCRETE SLAB TO REMAIN.
- EXISTING NATIVE SHOULDER TO REMAIN.

#### DEMOLITION KEYNOTES

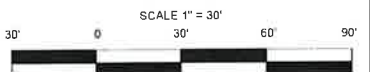
- CONTRACTOR SHALL GRIND THE EXISTING A.C. PAVEMENT FOR A MAXIMUM 1-INCH IN DEPTH. THE CONTRACTOR SHALL CRACK SEAL THE EXISTING A.C. PAVEMENT AFTER GRINDING PROCESS HAS BEEN COMPLETED. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.
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- SAWCUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT.
- REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
- CONTRACTOR SHALL GRIND HEADER CUT 0.12' OF EXISTING A.C. PAVEMENT. PER COUNTY OF IMPERIAL STANDARD DETAIL 453. SEE DETAIL B ON SHEET 12.
- CONTRACTOR TO LOWER THE STORMDRAIN GRATE AND FRAME TO 0.30 FEET BELOW GRADE PRIOR TO PAVING ACTIVITIES. SEE DETAIL C ON SHEET 12.

#### CONSTRUCTION KEYNOTES

- CONTRACTOR SHALL CLEAN AND SEAL ALL CRACKS WIDER THAN 1/4-INCH WITH A RUBBERIZED CRACK FILLER MATERIAL. AFTER THE GRINDING AND CRACK SEALING PROCESS HAS BEEN COMPLETED THE CONTRACTOR SHALL INSTALL 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER A 1-INCH LEVELING COURSE. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.
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- INSTALL 0.12-FEET OF A.C. PAVEMENT HEADER JOINT PER COUNTY STANDARD DETAIL 453. SEE DETAIL B ON SHEET 12.
- CONTRACTOR TO RAISE STORMDRAIN GRATE AND FRAME PER DETAIL C ON SHEET 12 OR AS DIRECTED BY THE ENGINEER.

#### STRIPING KEYNOTES

- CONTRACTOR TO PAINT 6-INCH SOLID WHITE LINE.
- CONTRACTOR TO PAINT A 6-INCH DASH YELLOW LANELINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 5. SEE DETAIL D ON SHEET 13.
- CONTRACTOR TO PAINT A 6-INCH SOLID DOUBLE YELLOW LANELINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 21. SEE DETAIL D ON SHEET 13.
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- CONTRACTOR TO PAINT 12-INCH WIDE STOP BAR PER CALTRANS STANDARD PLAN A24G. SEE DETAIL G ON SHEET 13.
- CONTRACTOR TO PAINT "AHEAD" LEGEND PER CALTRANS STANDARD PLAN A24D. SEE DETAIL F ON SHEET 13.



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:  
**Veronica Atondo, P.E.**  
DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING  
DATE: 3/26/25

61484  
R.C.E. No.  
08/30/25  
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
APPROVED FOR CONSTRUCTION BY:  
**John A. Gay, P.E.**  
DIRECTOR OF PUBLIC WORKS  
DATE: 3/26/25

62028  
R.C.E. No.  
09/30/25  
REG. EXP.



PUBLIC WORKS DEPARTMENT  
COUNTY OF IMPERIAL  
EL CENTRO, CALIFORNIA

DATE: 03/10/2025  
DRAWN: AG  
SCALE: 1" = 30'  
CHECKED: V.A.J.A.G.

#### PROJECT TITLE

BOWKER RD. REHABILITATION FROM MCCABE RD. TO ROSS RD. IN IMPERIAL COUNTY; FEDERAL PROJECT No. STPL 6958(130) COUNTY PROJECT No. 6959

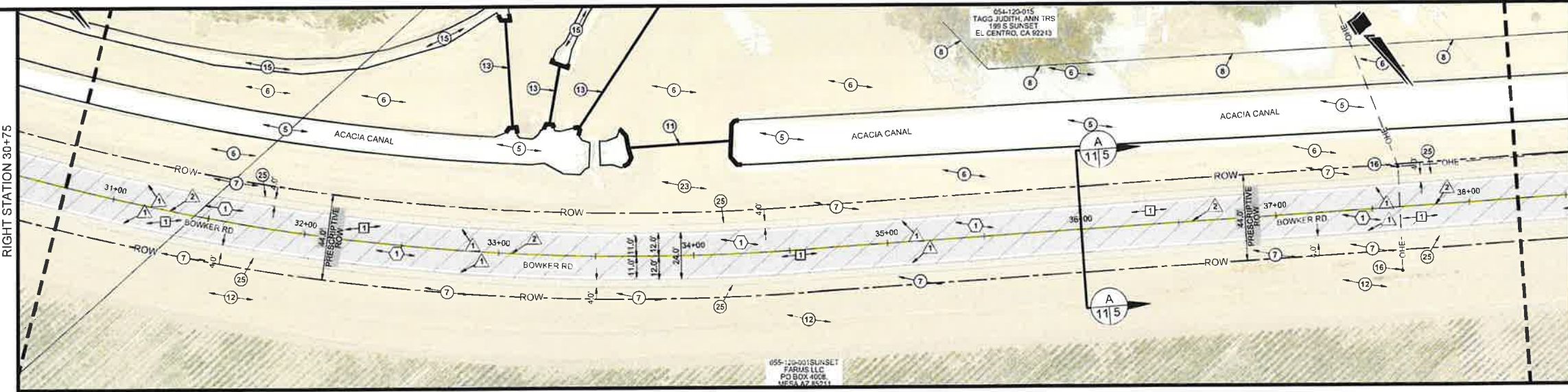
#### EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 17+00 TO STA 30+75

REFERENCE	SHEET	OF
6959	4	15



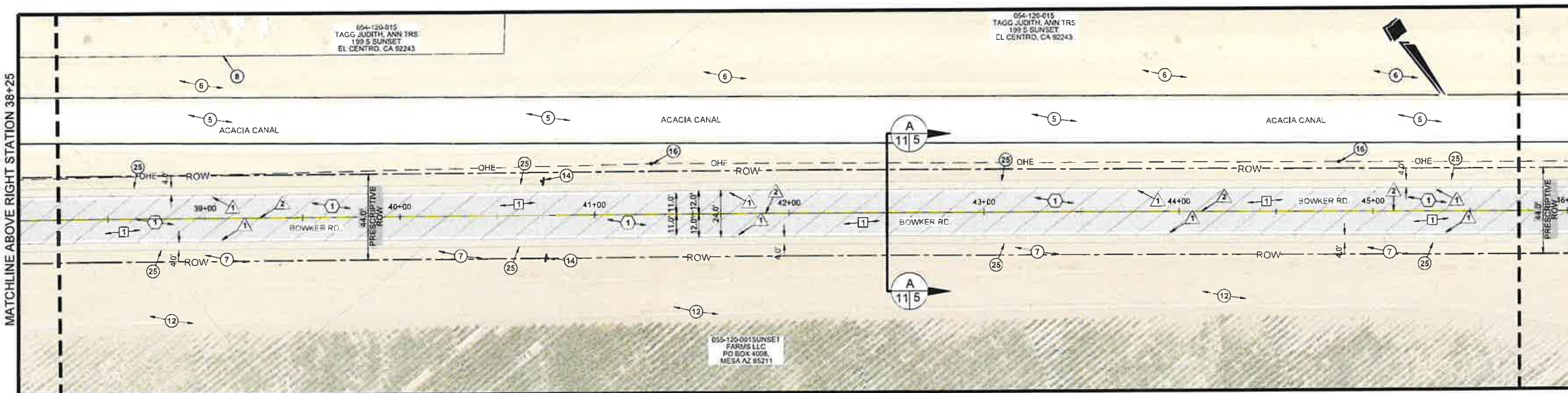
MATCHLINE SEE SHEET 4 BELOW  
RIGHT STATION 30+75

MATCHLINE BELOW LEFT STATION 38+25



MATCHLINE ABOVE RIGHT STATION 38+25

MATCHLINE SEE SHEET 5 ABOVE  
RIGHT STATION 45+75



**LEGEND**

CONTRACTOR SHALL COLD PLANE (GRIND) 1-INCH OF THE EXISTING A.C. PAVEMENT, CLEAN AND CRACK SEAL EXISTING CRACKS, AND PLACE 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER AN 1-INCH LEVELING COURSE.

ASPHALT CONCRETE TO BE HEADER CUT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.

INSTALL 4-FOOT WIDE CLASS 2 SHOULDER.

INSTALL 4.5-INCHES OF A.C. PAVEMENT OVER 14-INCHES OF CLASS 2 BASE.

**EXISTING KEYNOTES**

1 EXISTING AC PAVEMENT TO REMAIN.  
2 EXISTING STOP SIGN TO REMAIN.  
3 EXISTING STREET SIGN TO REMAIN.  
4 EXISTING I/D DRAIN TO REMAIN.  
5 EXISTING I/D CANAL TO REMAIN.  
6 EXISTING ACCESS ROAD TO REMAIN.  
7 EXISTING NATIVE SURFACE TO REMAIN.  
8 EXISTING FENCE TO REMAIN.  
9 EXISTING I/D DRAIN PIPELINE TO REMAIN.  
10 EXISTING HEADWALL TO REMAIN.  
11 EXISTING I/D PIPELINE TO REMAIN.  
12 EXISTING PRIVATE IRRIGATION SWALE TO REMAIN.  
13 EXISTING UNDERGROUND PRIVATE IRRIGATION SERVICE PIPELINE TO REMAIN.

**DEMOLITION KEYNOTES**

14 EXISTING ROAD REGULATORY SIGN TO REMAIN.  
15 EXISTING PRIVATE IRRIGATION DITCH TO REMAIN.  
16 EXISTING POWER POLE TO REMAIN.  
17 EXISTING IRRIGATION TAILWATER MANHOLE TO REMAIN.  
18 EXISTING STOP/STREET SIGN TO REMAIN.  
19 EXISTING STREET LIGHT TO REMAIN.  
20 EXISTING CALTRANS ELECTRICAL ENCLOSURE TO REMAIN.  
21 EXISTING STRIPING TO REMAIN.  
22 NOT USED.  
23 EXISTING NATIVE EARTH DRIVEWAY TO REMAIN.  
24 EXISTING P.C.C. CONCRETE SLAB TO REMAIN.  
25 EXISTING NATIVE SHOULDER TO REMAIN.

**CONSTRUCTION KEYNOTES**

1 CONTRACTOR SHALL GRIND (HEADER CUT) THE EXISTING A.C. PAVEMENT, FOR A MAXIMUM 1-INCH IN DEPTH. THE CONTRACTOR SHALL CRACK SEAL THE EXISTING A.C. PAVEMENT AFTER GRINDING PROCESS HAS BEEN COMPLETED. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.  
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4 REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.  
5 CONTRACTOR SHALL GRIND HEADER CUT 0.12' OF EXISTING A.C. PAVEMENT. PER COUNTY OF IMPERIAL STANDARD DETAIL 453. SEE DETAIL B ON SHEET 12.  
6 CONTRACTOR TO LOWER THE STORMDRAIN GRATE AND FRAME TO 0.30 FEET BELOW GRADE PRIOR TO PAVING ACTIVITIES. SEE DETAIL C ON SHEET 12.

**STRIPING KEYNOTES**

1 CONTRACTOR TO PAINT 6-INCH SOLID WHITE LINE.  
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7 CONTRACTOR TO PAINT 12-INCH WIDE STOP BAR PER CALTRANS STANDARD PLAN A24G. SEE DETAIL G ON SHEET 13.  
8 CONTRACTOR TO PAINT "AHEAD" LEGEND PER CALTRANS STANDARD PLAN A24D. SEE DETAIL F ON SHEET 13.

SCALE 1" = 30'

30' 0 30' 60' 90'

REVISION	DATE	COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF:		COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT		PUBLIC WORKS DEPARTMENT		PROJECT TITLE		EXISTING SITE PLAN AND IMPROVEMENT PLAN	
			VERONICA AYONDO, P.E. DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING 3/26/25		JOHN A. GAY, P.E. DIRECTOR OF PUBLIC WORKS 3/26/25		BOWKER RD, REHABILITATION FROM MCCABE RD. TO ROSS RD. IN IMPERIAL COUNTY; FEDERAL PROJECT No. STPL 5958(130) COUNTY PROJECT No. 5959		REFERENCE R-1013 6959 SHEET 5 OF 15			







MATCHLINE SEE SHEET 6 BELOW  
RIGHT STATION 60+75

055-180-475  
A & L LAND CO., LLC  
645 OLIVE AVE.  
HOLTVILLE, CA 92251

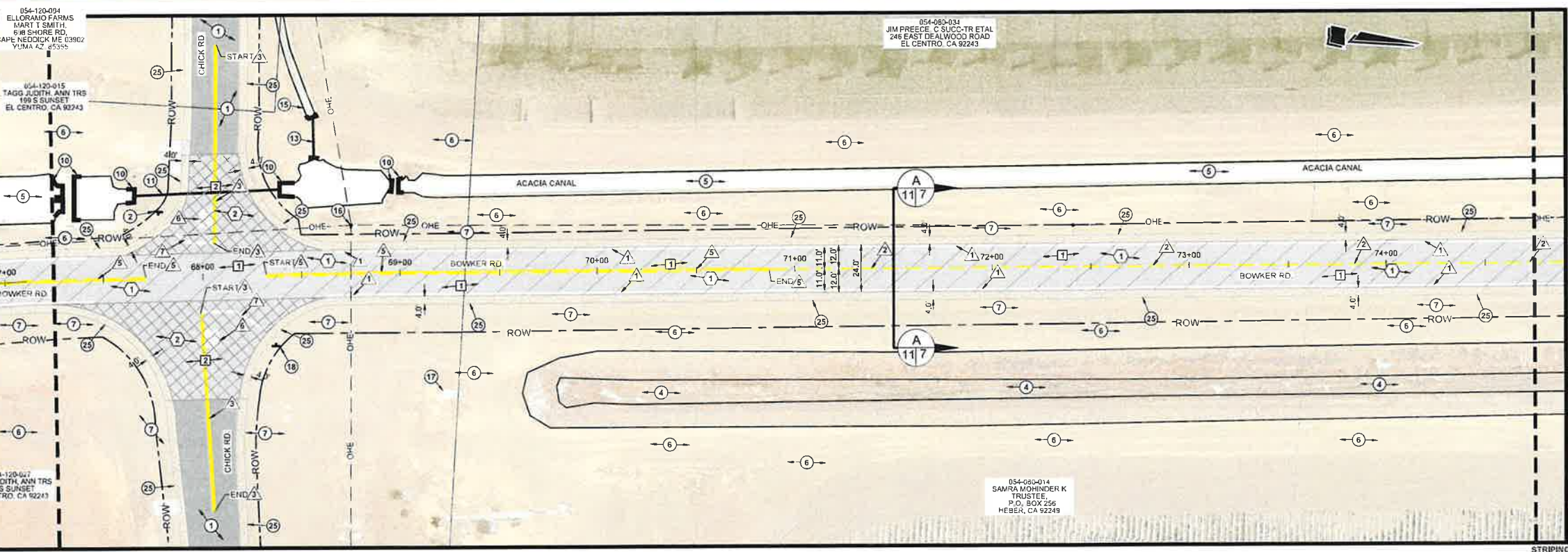
054-126-027  
TAGG JUDITH ANN TRS  
199 S SUNSET  
EL CENTRO, CA 92243

054-126-015  
TAGG JUDITH ANN TRS  
199 S SUNSET  
EL CENTRO, CA 92243

MATCHLINE BELOW LEFT STATION 67+25

MATCHLINE ABOVE RIGHT STATION 67+25

054-126-027  
TAGG JUDITH ANN TRS  
199 S SUNSET  
EL CENTRO, CA 92243



MATCHLINE SEE SHEET 8 ABOVE  
RIGHT STATION 74+75

LEGEND

- CONTRACTOR SHALL COLD PLANE (GRIND) 1-INCH OF THE EXISTING A.C. PAVEMENT, CLEAN AND CRACK SEAL EXISTING CRACKS, AND PLACE 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER AN 1-INCH LEVELING COURSE.
- ASPHALT CONCRETE TO BE HEADER CUT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.
- INSTALL 4-FOOT WIDE CLASS 2 SHOULDER.
- INSTALL 4.5-INCHES OF A.C. PAVEMENT OVER 14-INCHES OF CLASS 2 BASE.

EXISTING KEYNOTES

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CONSTRUCTION KEYNOTES

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- 8 CONTRACTOR TO PAINT "AHEAD" LEGEND PER CALTRANS STANDARD PLAN A24D. SEE DETAIL F ON SHEET 13.



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Veronica Atondo, P.E.*  
VERONICA ATONDO, P.E.  
DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
3/26/25  
DATE

61484  
R.C.E. No.  
06/30/25  
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
APPROVED FOR CONSTRUCTION BY:  
*Jonathan A. Gay, P.E.*  
JONATHAN A. GAY, P.E.  
DIRECTOR OF PUBLIC WORKS  
3/26/25  
DATE

62028  
R.C.E. No.  
09/30/25  
REG. EXP.



PUBLIC WORKS DEPARTMENT  
COUNTY OF IMPERIAL  
EL CENTRO, CALIFORNIA

DATE	03/10/2025
DRAWN	AG
SCALE	1" = 30'
CHECKED	V.A./A.G.

PROJECT TITLE	BOWKER RD, REHABILITATION FROM MCCABE RD. TO ROSS RD. IN IMPERIAL COUNTY; FEDERAL PROJECT No. STPL 5958(130) COUNTY PROJECT No. 6959
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REFERENCE	6959
SHEET	7

OF	15
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PROJECT TITLE	EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 60+75 TO STA 74+75
REFERENCE	R-1013

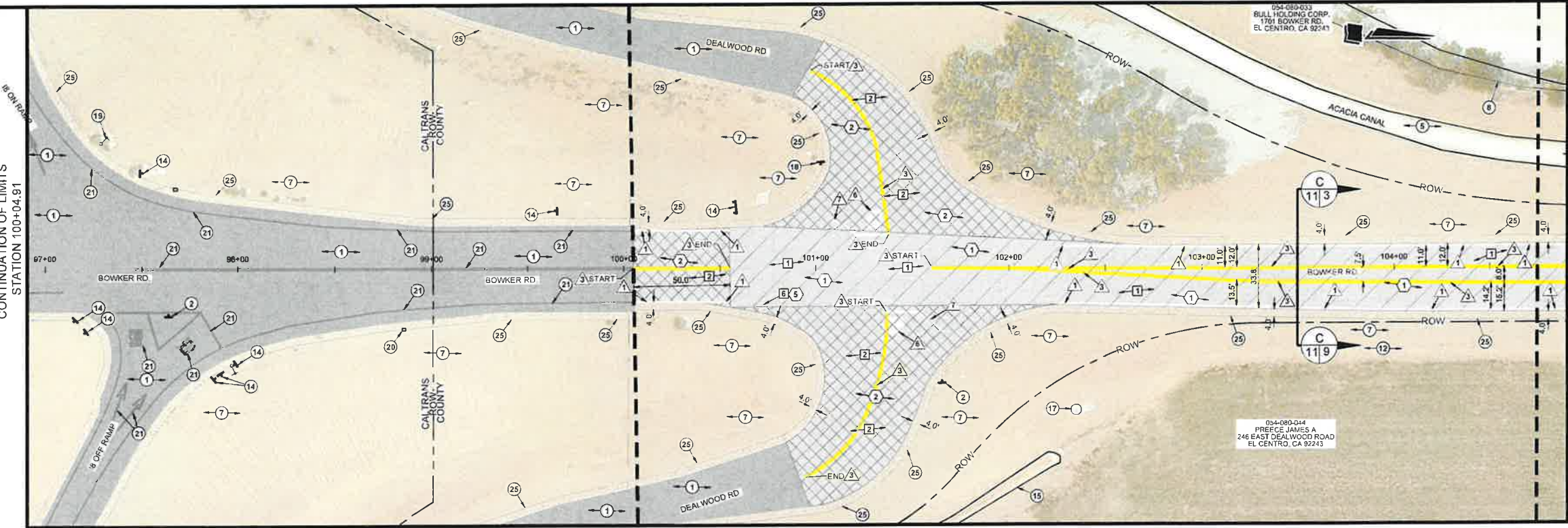






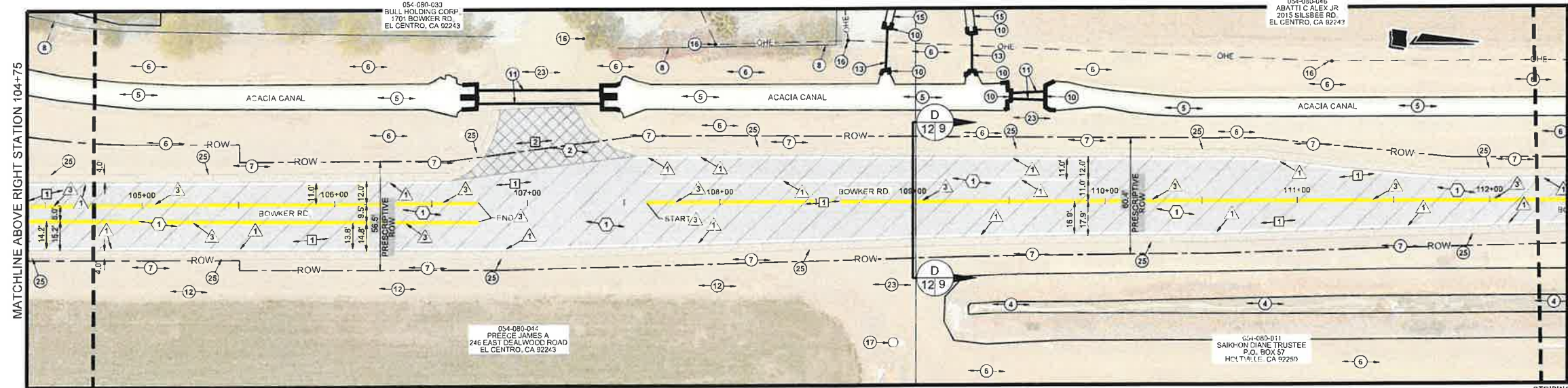
SEE CALTRANS SOUTH ROW ON SHEET 8  
BELOW RIGHT  
STATION 100+04.91

MATCHLINE BELOW LEFT STATION 104+75



MATCHLINE ABOVE RIGHT STATION 104+75

MATCHLINE SEE SHEET 9 ABOVE  
RIGHT STATION 112+75



LEGEND

- CONTRACTOR SHALL COLD PLANE (GRIND) 1-INCH OF THE EXISTING A.C. PAVEMENT, CLEAN AND CRACK SEAL EXISTING CRACKS, AND PLACE 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER AN 1-INCH LEVELING COURSE.
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EXISTING KEYNOTES

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4 EXISTING I/D DRAIN TO REMAIN.  
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12 EXISTING PRIVATE IRRIGATION SWALE TO REMAIN.  
13 EXISTING UNDERGROUND PRIVATE IRRIGATION SERVICE PIPELINE TO REMAIN.

- 14 EXISTING ROAD REGULATORY SIGN TO REMAIN.  
15 EXISTING PRIVATE IRRIGATION DITCH TO REMAIN.  
16 EXISTING POWER POLE TO REMAIN.  
17 EXISTING IRRIGATION TAIL WATER MANHOLE TO REMAIN.  
18 EXISTING STOP/STREET SIGN TO REMAIN.  
19 EXISTING STREET LIGHT TO REMAIN.  
20 EXISTING CALTRANS ELECTRICAL ENCLOSURE TO REMAIN.  
21 EXISTING STRIPING TO REMAIN.  
22 NOT USED.  
23 EXISTING NATIVE EARTH DRIVEWAY TO REMAIN.  
24 EXISTING P.C.C. CONCRETE SLAB TO REMAIN.  
25 EXISTING NATIVE SHOULDER TO REMAIN.

DEMOLITION KEYNOTES

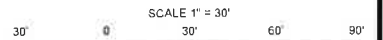
- 1 CONTRACTOR SHALL GRIND THE EXISTING A.C. PAVEMENT FOR A MAXIMUM 1-INCH IN DEPTH. THE CONTRACTOR SHALL CRACK SEAL THE EXISTING A.C. PAVEMENT AFTER GRINDING PROCESS HAS BEEN COMPLETED. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.  
2 CONTRACTOR SHALL GRIND (HEADER CUT) THE EXISTING A.C. PAVEMENT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.  
3 SAWCUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT.  
4 REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.  
5 CONTRACTOR SHALL GRIND HEADER CUT 0.12' OF EXISTING A.C. PAVEMENT. PER COUNTY OF IMPERIAL STANDARD DETAIL 453. SEE DETAIL B ON SHEET 12.  
6 CONTRACTOR TO LOWER THE STORMDRAIN GRATE AND FRAME TO 0.30 FEET BELOW GRADE PRIOR TO PAVING ACTIVITIES. SEE DETAIL C ON SHEET 12.

CONSTRUCTION KEYNOTES

- 1 CONTRACTOR SHALL CLEAN AND SEAL ALL CRACKS WIDER THAN 1/4-INCH WITH A RUBBERIZED CRACK FILLER MATERIAL. AFTER THE GRINDING AND CRACK SEALING PROCESS HAS BEEN COMPLETED THE CONTRACTOR SHALL INSTALL 2-INCHES OF A.C. PAVEMENT OVER A GEOSYNTHETIC PAVEMENT INTERLAYER OVER A 1-INCH LEVELING COURSE. SEE SECTION A-A THROUGH D-D ON SHEET 11-12.  
2 CONTRACTOR TO INSTALL A.C. PAVEMENT AT "HEADER CUT" JOINT TO ACCOMMODATE NEW SECTION OR AS DIRECTED BY THE ENGINEER. SEE DETAIL A ON SHEET 12.  
3 INSTALL 4.5-INCHES OF A.C. PAVEMENT OVER 18-INCHES OF CLASS 2 BASE. COMPACT CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE SECTION DETAIL E-E ON SHEET 12.  
4 INSTALL 0.12-FEET OF A.C. PAVEMENT HEADER JOINT PER COUNTY STANDARD DETAIL 453. SEE DETAIL B ON SHEET 12.  
5 CONTRACTOR TO RAISE STORMDRAIN GRATE AND FRAME PER DETAIL C ON SHEET 12 OR AS DIRECTED BY THE ENGINEER.

STRIPING KEYNOTES

- 1 CONTRACTOR TO PAINT 6-INCH SOLID WHITE LINE.  
2 CONTRACTOR TO PAINT A 5-INCH DASH YELLOW LANE LINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 5. SEE DETAIL D ON SHEET 13.  
3 CONTRACTOR TO PAINT A 6-INCH SOLID DOUBLE YELLOW LANE LINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 21. SEE DETAIL D ON SHEET 13.  
4 CONTRACTOR TO PAINT A 6-INCH DOUBLE YELLOW "NO PASSING ZONE" LANE LINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 18. SEE DETAIL D ON SHEET 13.  
5 CONTRACTOR TO PAINT A 6-INCH DOUBLE YELLOW "NO PASSING ZONE" LANE LINE STRIPE PER CALTRANS STANDARD PLAN RSP A20B, DETAIL 34A. SEE DETAIL E ON SHEET 13.  
6 CONTRACTOR TO PAINT "STOP" LEGEND PER CALTRANS STANDARD PLAN A24D. SEE DETAIL F ON SHEET 13.  
7 CONTRACTOR TO PAINT 12-INCH WIDE STOP BAR PER CALTRANS STANDARD PLAN A24G. SEE DETAIL G ON SHEET 13.  
8 CONTRACTOR TO PAINT "AHEAD" LEGEND PER CALTRANS STANDARD PLAN A24D. SEE DETAIL F ON SHEET 13.



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:  
**Veronica A. Tondo, P.E.**  
DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
DATE: 3/26/25

61484  
R.C.E. No.  
06/30/25  
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
APPROVED FOR CONSTRUCTION BY:  
**John A. Gay, P.E.**  
DIRECTOR OF PUBLIC WORKS  
DATE: 3/26/25

62028  
R.C.E. No.  
09/30/25  
REG. EXP.



DATE: 03/10/2025  
DRAWN: AG  
SCALE: 1" = 30'  
CHECKED: V.A./A.G.

PROJECT TITLE  
**BOWKER RD. REHABILITATION FROM MCCABE RD. TO ROSS RD. IN IMPERIAL COUNTY; FEDERAL PROJECT No. STPL 5958(130) COUNTY PROJECT No. 6959**

EXISTING SITE PLAN AND IMPROVEMENT PLAN FROM STA 100+04.91 TO STA 112+25	
REFERENCE 6959	R-1013 SHEET 9 OF 15







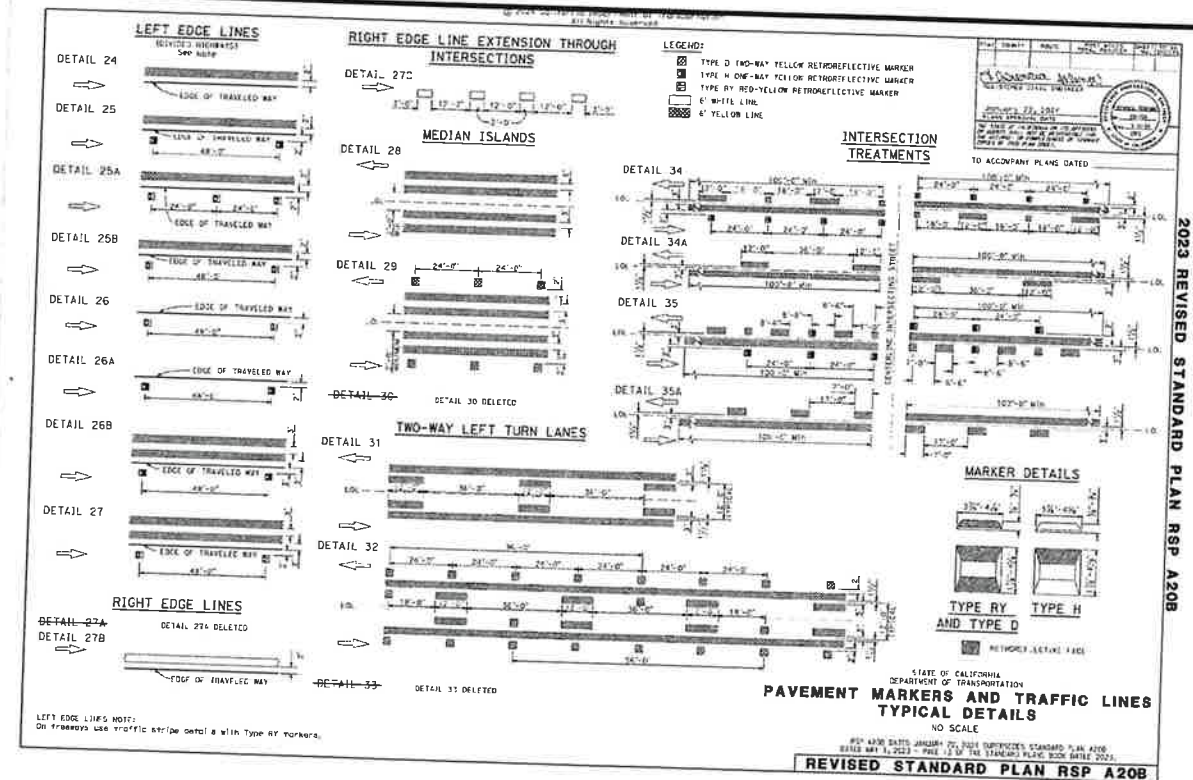
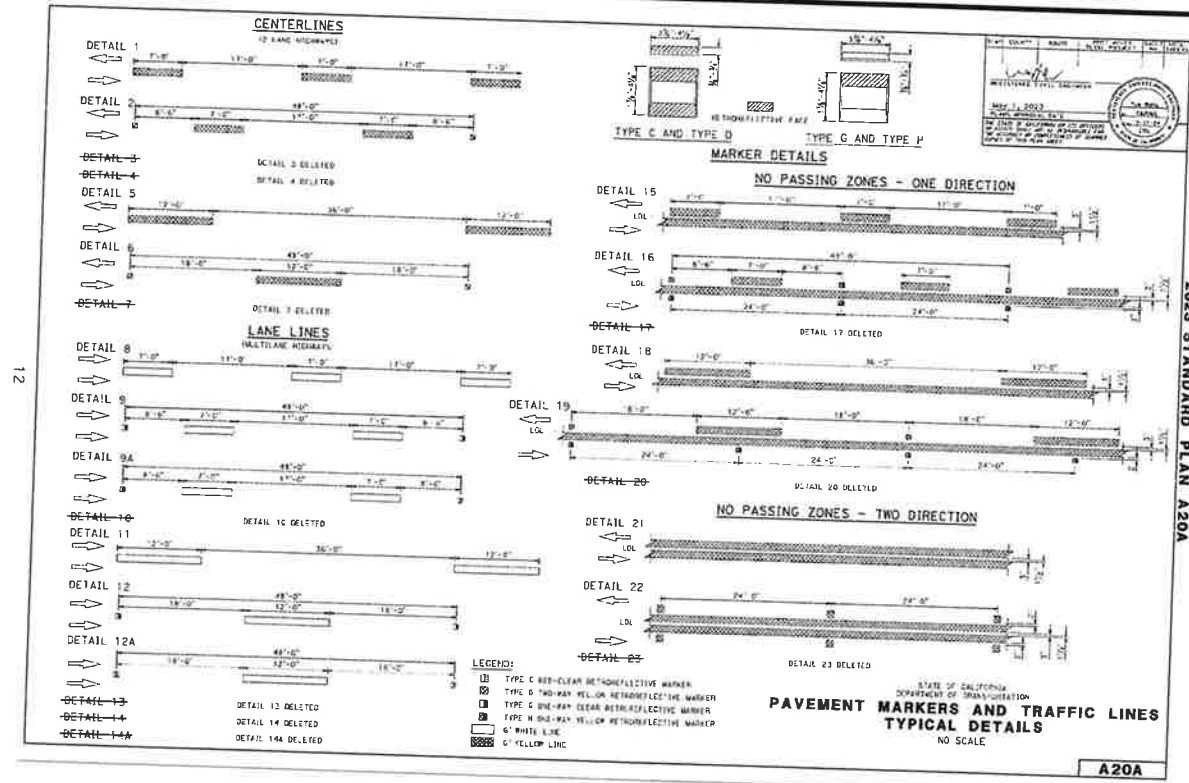


CROSS SECTIONS DETAILS AND DETAIL SHEET	
REFERENCE	R-1013
6959	SHEET 11 OF 15

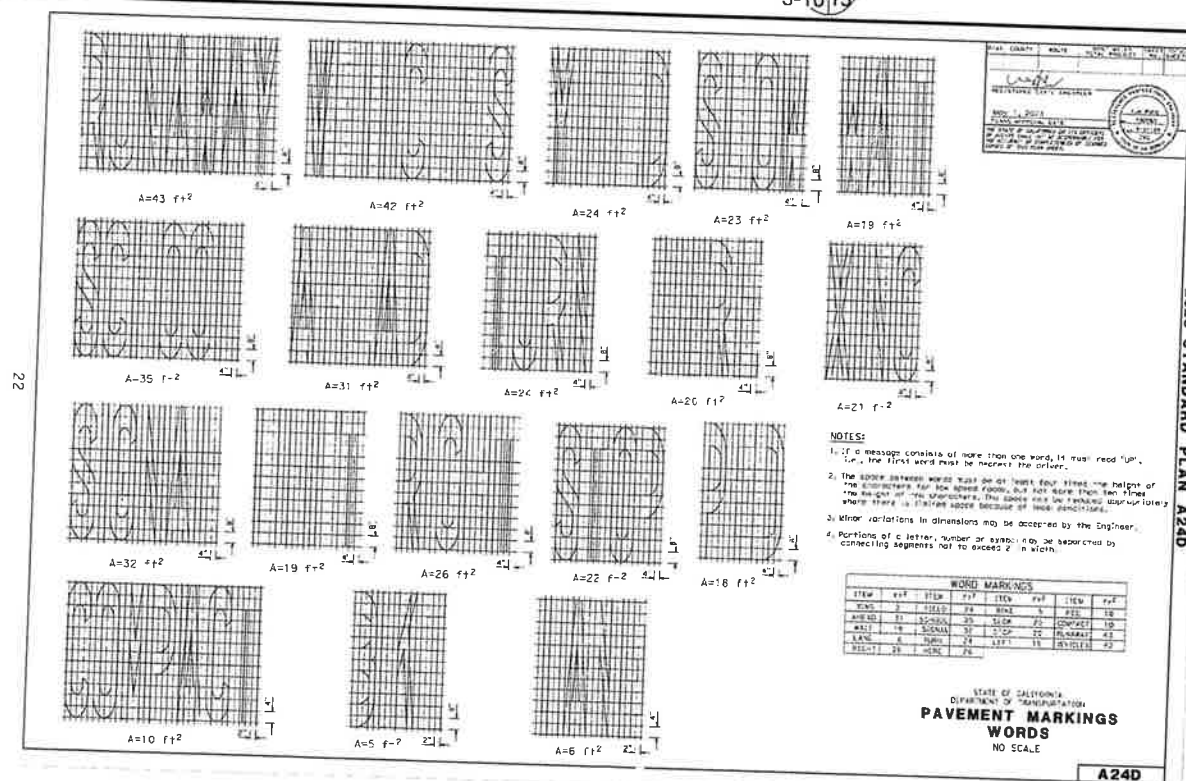






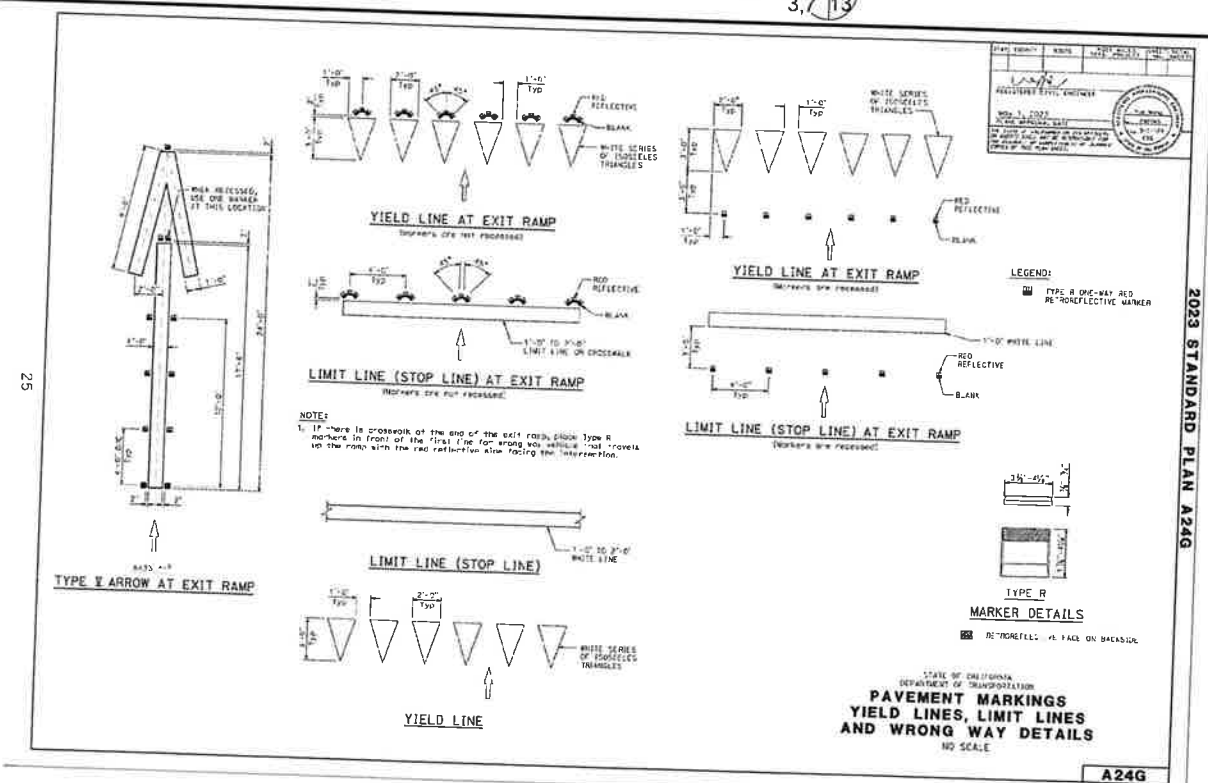


CALTRANS STANDARD DETAIL A20A  
NTS



CALTRANS STANDARD DETAIL A24D

CALTRANS STANDARD DETAIL RSP A20B



CALTRANS STANDARD DETAIL A24G

[illegible]

PREPARED UNDER THE DIRECT SUPERVISION OF:

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DATE

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R C E N-

REG. EXP



DATE	03/10/2025
DRAGS	AG
SCALE	NTS
CHECKED	V.A./A.G.

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MCCABE RD. TO ROSS RD.  
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FEDERAL PROJECT No. STPL 5958(130)  
COUNTY PROJECT No. 6959

DETAIL SHEET

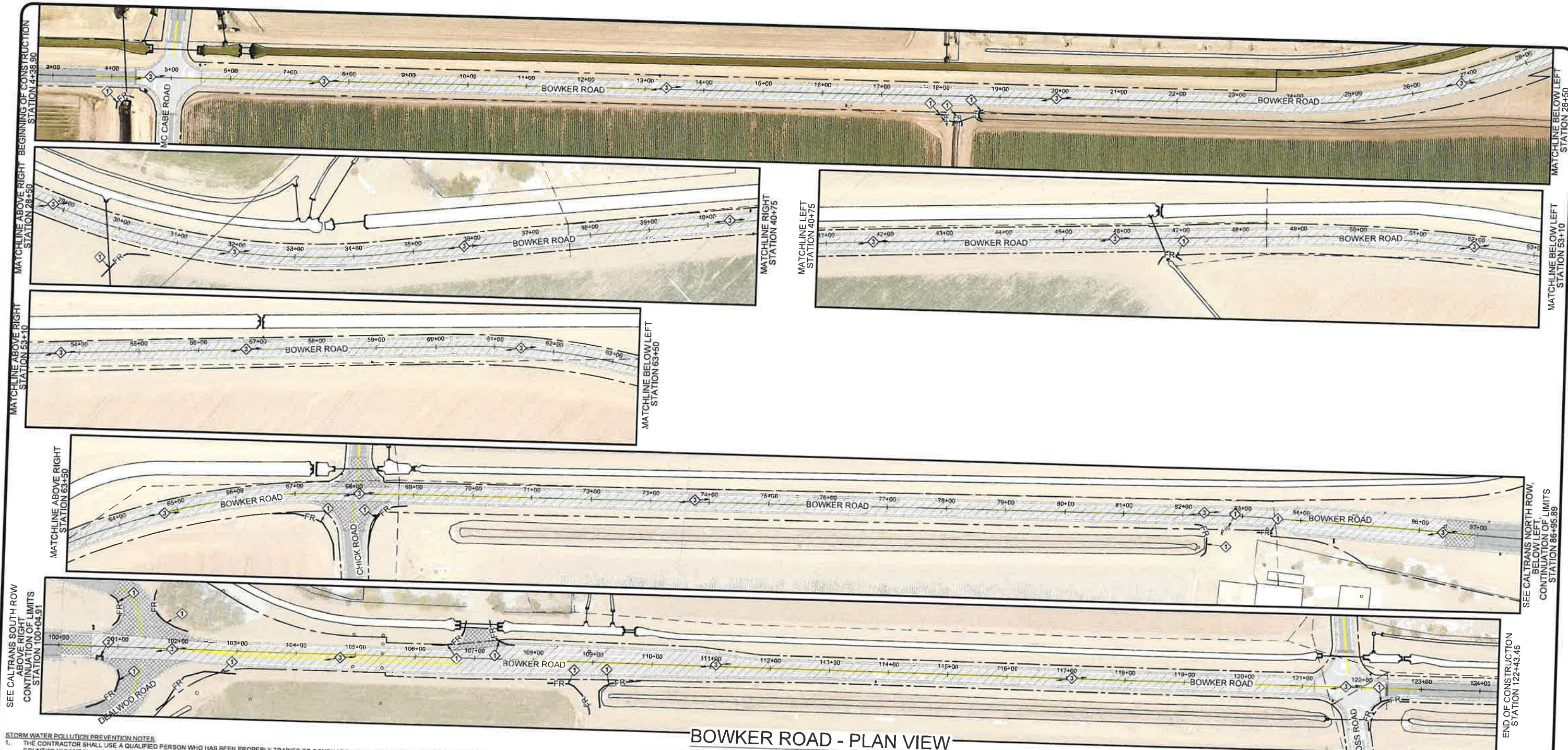
REFERENCE

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R-1013

SHEET OF  
13 15





# BOWKER ROAD - PLAN VIEW

- STORM WATER POLLUTION PREVENTION NOTES:**
- THE CONTRACTOR SHALL USE A QUALIFIED PERSON WHO HAS BEEN PROPERLY TRAINED TO CONDUCT INSPECTIONS AND PREPARE REPORTS OF THE CONSTRUCTION SITE WITH RESPECT TO THE COUNTY'S MUNICIPAL CODE/ORDINANCES AND THE EROSION CONTROL PLAN. THE QUALIFIED PERSON SHALL HAVE KNOWLEDGE AND TRAINING OF THE INTENT AND ENFORCEMENT OF EROSION CONTROL PLANS AND BMPs.
  - THE QUALIFIED PERSON SHALL CONDUCT REGULAR INSPECTIONS OF PROJECT SITE IN ACCORDANCE WITH THE RECOMMENDATIONS OUTLINED IN THE EROSION CONTROL PLAN. EACH INSPECTION SHALL BE DOCUMENTED IN THE FORM OF WRITTEN REPORTS SERRATED ON-SITE. ALL REPORTS SHALL BE PROVIDED TO THE COUNTY INSPECTOR AND ALSO BE MADE AVAILABLE TO THE RWQCB REPRESENTATIVES UPON REQUEST.
  - THE CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER AND SEWER UTILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.
- EROSION CONTROL NOTES:**
- NO SITE CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
  - CONTRACTOR SHALL PROVIDE A PORTABLE RESTROOM FACILITIES TO A LOCATION APPROVED BY THE RESIDENT ENGINEER.
  - TEMPORARY EROSION CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS SHALL BE PERFORMED BY THE CONTRACTOR AS INDICATED BELOW.
  - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP OF SILT AND MUD ON ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY TO PREVENT SILT AND MUD FROM LEAVING THE CONSTRUCTION AREA.
  - THE CONTRACTOR SHALL CHECK AND PROTECT LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
  - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON-SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN THE RAIN IS IMMINENT.
  - DEVICES SHOWN ON THESE PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER.
  - THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE COUNTY ENGINEER AFTER EACH RAINFALL PRODUCING RUN-OFF.
  - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE COUNTY ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUND WATER CREATES A HAZARDOUS CONDITION.
  - ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING AND STREET PLAN SHALL BE INCORPORATED HERON.
  - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
  - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.

- SILTATION AND SEDIMENT CONTROL MEASURES NOTES:**
- PROVIDE FILTER ROLLS OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
  - FILTER ROLLS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
  - ALL EROSION CONTROL DEVICES WITHIN THE PROJECT SCOPE SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF-PRODUCING STORM. CONTRACTOR SHALL MAKE SAFE ACCESS TO ALL AREAS AVAILABLE FOR MAINTENANCE CREWS.
  - ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY THE COUNTY ENGINEER.

## TEMPORARY CONSTRUCTION SITE BMPs

BMP NO.	ITEM	NOTES/ COMMENT
-	CONSTRUCTION SITE AND BMP MANAGEMENT	SITE MANAGEMENT INCLUDES, BUT IS NOT LIMITED TO TC-1, TC-3, WM-5, WM-6, NS-3, NS-12, WM-8 AND WM-9. REFER TO LATEST VERSION OF CASQA STORMWATER BMP HANDBOOK.
-	STREET SWEEPING	STREET SWEEPING SHALL BE PERFORMED ONLY AS NECESSARY TO ENSURE TRAVELEDWAYS ARE FREE OF DIRT.
-	TEMPORARY RESTROOM FACILITIES	THE RESTROOM FACILITIES SHALL BE SECURED FROM OVERTURNING IN HIGH WIND CONDITIONS.
VE-1	WIND EROSION CONTROL	MAINTAIN DUST CONTROL THROUGHOUT THE ENTIRE SITE FOR THE DURATION OF THE PROJECT. WATER TRUCKS, OR EQUIVALENT BMP, SHALL BE USED FOR DUST SUPPRESSION.

- EROSION CONTROL KEYNOTES:**
- INSTALL FIBER ROLLS PER BMP DETAIL SC-5, SEE DETAIL H AND I ON SHEET 15.
  - INSTALL GRAVEL BAGS PER DETAIL J ON SHEET 15. THE GRAVEL BAGS SHALL BE INSTALLED AT AS DIRECTED BY THE ENGINEER.
  - CONTRACTOR SHALL SWEEP STREET PER SC-7.

STAGING AREA WILL USE THE FOLLOWING BMPs PER LATEST REVISION OF CASQA STORMWATER BMP HANDBOOK. LOCATION OF STAGING AREA TO BE APPROVED BY THE RESIDENT ENGINEER.

- VE-1 - WIND EROSION CONTROL
- TC-1 & TC-3 - STABILIZED CONSTRUCTION ENTRANCE / EXIT WITH TIRE WASH
- WM-5 - SOLID WASTE MANAGEMENT
- WM-6 - HAZARDOUS WASTE MANAGEMENT
- WM-8 - CONCRETE WASTE MANAGEMENT
- WM-9 - SANITARY / SEPTIC WASTE MANAGEMENT

- LEGEND**
- 1 PORTABLE TOILET
  - 2 SAND BAGS
  - 3 CONCRETE WASHOUT AREA
  - 4 FIBER ROLLS

REVISION	DATE	COMMENTS



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PUBLIC WORKS DEPARTMENT  
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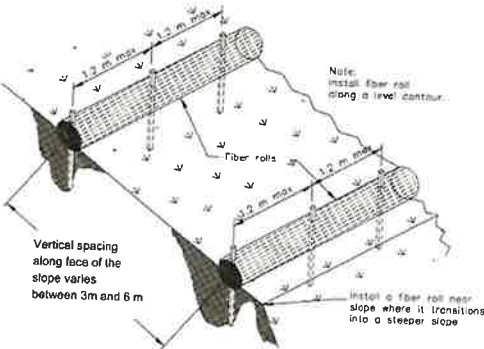
PROJECT TITLE  
BOWKER RD. REHABILITATION FROM MCCABE RD. TO ROSS RD. IN IMPERIAL COUNTY, FEDERAL PROJECT No. STPL 5958(130) COUNTY PROJECT No. 6959

EROSION CONTROL PLANS  
REFERENCE: 6959  
R-1013  
SHEET 14 OF 15

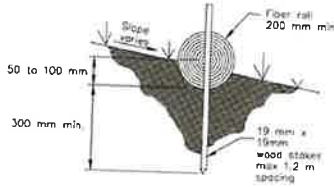


Fiber Rolls

SC-5



TYPICAL FIBER ROLL INSTALLATION  
N.T.S.



ENTRENCHMENT DETAIL  
N.T.S.

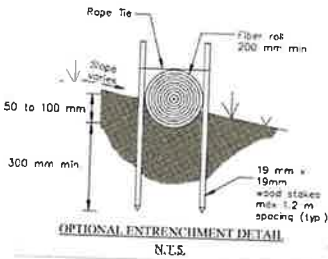
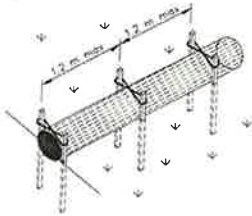
FIBER ROLL DETAIL

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Fiber Rolls

SC-5

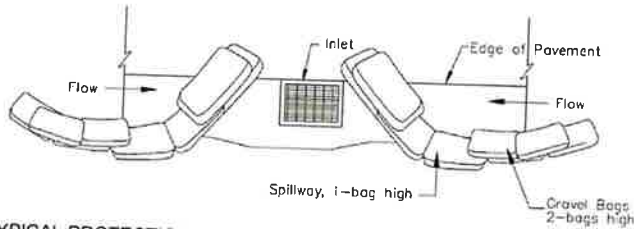


OPTIONAL ENTRENCHMENT DETAIL  
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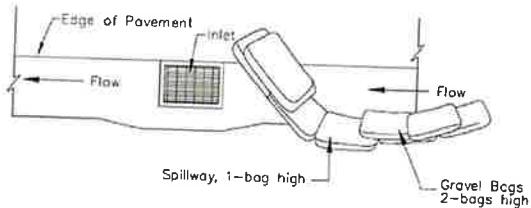
FIBER ROLL DETAIL

BMP SC-5  
NTS

I  
13/15



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

- NOTES:
1. Intended for short-term use.
  2. Use to inhibit non-storm water flow.
  3. Allow for proper maintenance and cleanup.
  4. Bags must be removed after adjacent operation is completed.
  5. Not applicable in areas with high silts and clays without filter fabric.

SAND BAG DETAIL

BMP SC-10  
NTS

J  
14/15

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:  
**Atondo V**  
VERONICA ATONDO, P.E.  
DEPUTY DIRECTOR OF PUBLIC  
WORKS - ENGINEERING  
DATE: **3/26/25**



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT  
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**John A. Gay**  
JOHN A. GAY, P.E.  
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COUNTY PROJECT No. 6959

EROSION CONTROL DETAILS

REFERENCE: **6959**  
SHEET 15 OF 15