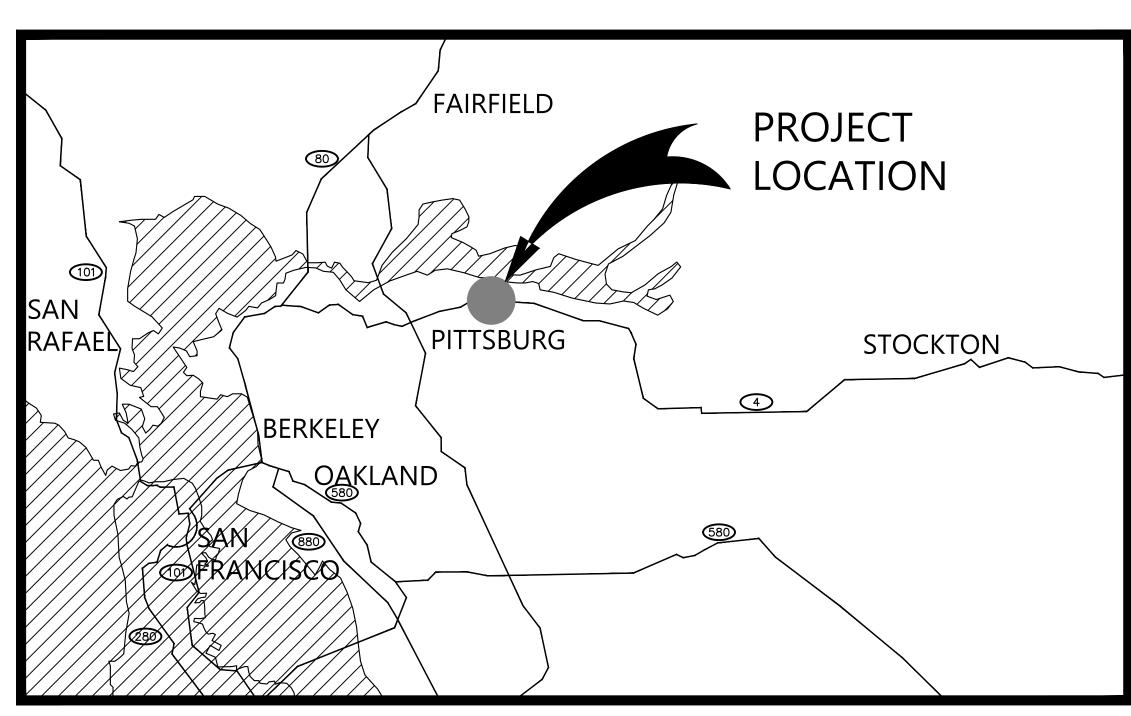


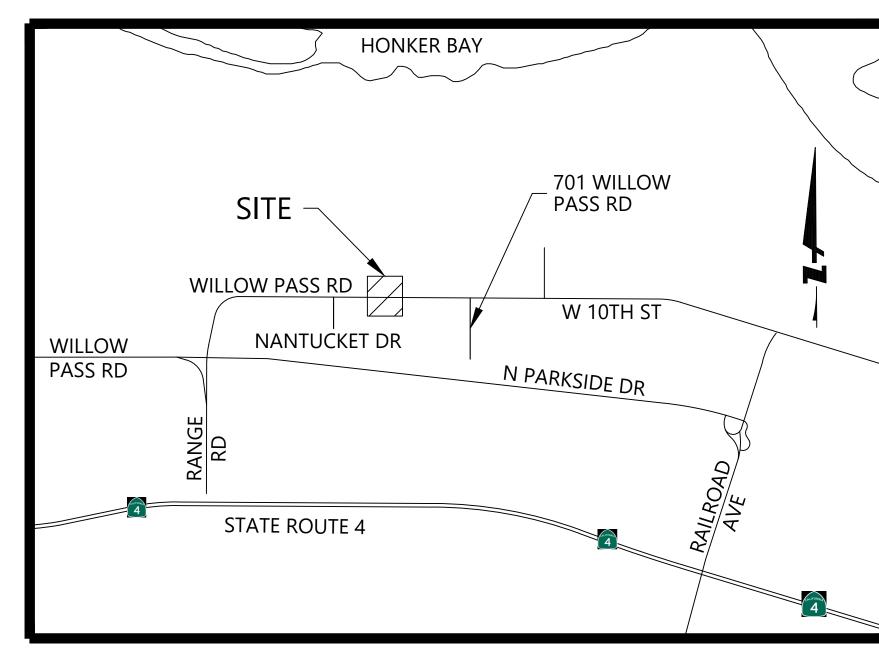
CITY OF PITTSBURG

PUBLIC WORKS ENGINEERING DIVISION WILLOW PASS ROAD STORM DRAIN REPAIR PROJECT PROJECT No. 3023



SHEET LIST TABLE				
SHEET No.	DRAWING No.	SHEET TITLE		
1	TS-01	TITLE SHEET		
2	EX-01	EXISTING CONDITIONS AND DEMOLITION PLAN		
3	IM-01	IMPROVEMENT PLAN		
4	UT-01	UTILITY PLAN		
5	GR-01	GRADING PLAN		
6	CD-01	CONSTRUCTION DETAILS		

ATTENTION IS DIRECTED TO THE PROVISIONS OF CHAPTER 9 OF DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE CONCERNING THE LICENSING OF CONTRACTORS. THE PRIME CONTRACTOR SHALL POSSESS A CALIFORNIA CLASS "A" OF "C-12" LICENSE AR THE TIME THIS CONTRACT IS AWARDED.



LOCATION MAP

NOT TO SCALE

VICINITY MAP

NOT TO SCALE

JOHN SAMUELSON, P.E., CITY ENGINEER, CE 67734

DATE: 9/12/24

Know what's below.

Call before you dig.

ACCEPTANCE OF THESE IMPROVEMENT PLANS BY THE CITY ENGINEER SHALL NOT RELIEVE THE ENGINEER OF RECORD FOR THE DESIGN NOR FROM ANY DEFICIENCIES RESULTING FROM THE DESIGN THEREOF.

CITY ENGINEER SHALL SIGN ANY REVISION PRIOR OR DURING CONSTRUCTION. A COPY OF THE REVISION SHALL BE SUBMITTED TO THE CITY THROUGH ELECTRONIC OR HARD COPY FORMAT.

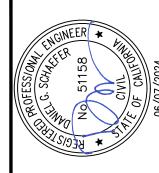
A "RECORD DRAWING" SHALL BE SUBMITTED TO THE CITY THROUGH ELECTRONIC OR HARD COPY PRIOR TO ACCEPTANCE OF THE WORK AS COMPLETE.

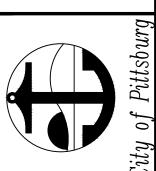
THE CITY COUNCIL
OF THE CITY OF PITTSBURG

JUAN ANTONIO BANALES, MAYOR
JELANI KILLINGS, VICE MAYOR
SHANELLE SCALES-PRESTON, COUNCIL MEMBER
DIONNE ADAMS, COUNCIL MEMBER
ANGELICA LOPEZ, COUNCIL MEMBER

GARRETT EVANS, CITY MANAGER
ALICE E. EVENSON, CITY CLERK
JOHN SAMUELSON, PUBLIC WORKS DIRECTOR/CITY ENGINEER

HANGINEER * ALT





TITLE SHEET

REVIEWED: JS
DATE: 4/15/24

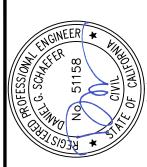
REV DESCRIPTION BY C

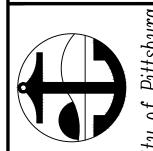
DATE REV

1 of 6

TS-01







EMOLITION

AND

CONDITIONS

EX-01

AD R

DEMOLITION ITEMS

- 1 CLEAR AND GRUB
- REMOVE EX CONCRETE SECTION SEE NOTE 10
- REMOVE EX CONCRETE GUTTER
- REMOVE EX ASPHALT SECTION
- REMOVE CURB
- REMOVE EX 48" STORM DRAIN LINE
- REMOVE EX HEADWALL
- REMOVE EX FENCE
- REMOVE AND DISPOSE EX POST
- REMOVE EX TREE SEE NOTE 11

PROTECTION ITEMS

- 51 PROTECT EX CONCRETE
- 52 PROTECT EX CURB
- 53 PROTECT EX WATER VALVE
- 54 PROTECT EX WATER METER
- 55 PROTECT EX WATER LINE
- 56 PROTECT EX FENCE
- 57 PROTECT EX TREE

DEMOLITION NOTES

- 1. CONTRACTOR TO USE CAUTION WHEN WORKING ADJACENT TO EXISTING BUILDING.
- 2. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS.
- 3. THE UTILITY LINES AND STRUCTURES SHOWN ON THESE PLANS ARE DERIVED FROM RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES AND STRUCTURES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
- 4. THE CONTRACTOR IS REQUIRED BY STATE LAW TO ACTIVELY RESEARCH THE WORK AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION, REFERENCE ANY MONUMENTS, AND REPLACE THOSE DAMAGED OR REMOVED DURING CONSTRUCTION.
- 5. THE LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING SURROUNDINGS, LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, AND SIDEWALKS AND AVOIDING ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES OR HAZARDOUS CONDITIONS.
- 6. EXISTING CURB AND SIDEWALK AND LANDSCAPE/IRRIGATION WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 7. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
- 8. CONTRACTOR TO NOT WORK BEYOND TEMPORARY CONSTRUCTION FENCING.
- 9. IF ANY CULTURAL FEATURES OR ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING TRENCHING OR OTHER EXCAVATION WORK, ALL WORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST CERTIFIED BY THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) AND/OR THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) HAS HAD ANY OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FINE APPROPRIATE MITIGATION MEASURES ARE DETERMINED AND IMPLEMENTED.
- 10. CONTRACTOR TO REPLACE CONCRETE S/W UP TO NEXT JOINT SCORELINE.
- 11. CONTRACTOR TO COORDINATE WITH THE CITY OF PITTSBURG PUBLIC WORKS DEPARTMENT.

BASIS OF BEARINGS

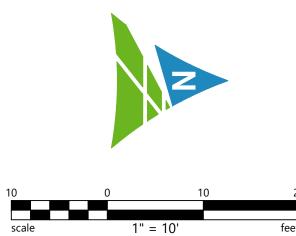
THE BASIS OF THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983 (NAD83) (NA2011), ZONE 3, EPOCH 2021.50.

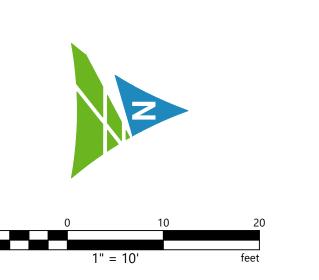
BENCHMARK

THE ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

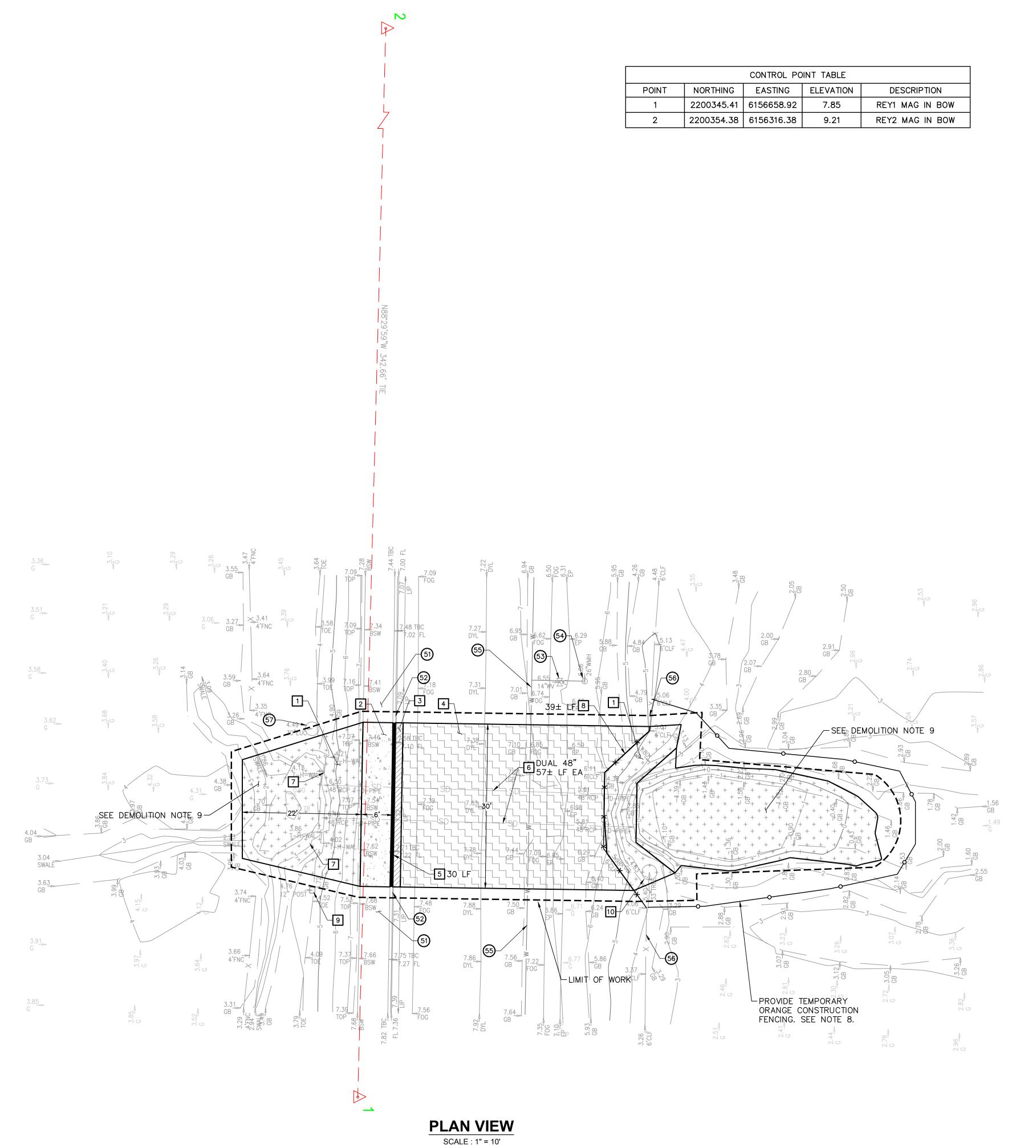
NOTES

- 1. BASED ON A FIELD SURVEY PERFORMED IN FEBRUARY
- 2. ALL UNITS ARE IN FEET AND DECIMALS THEREOF.
- 3. SURFACE CONTOURS ARE SHOWN IN 1 FOOT CONTOUR INTERVALS.





2 of 6 SHEET NO.

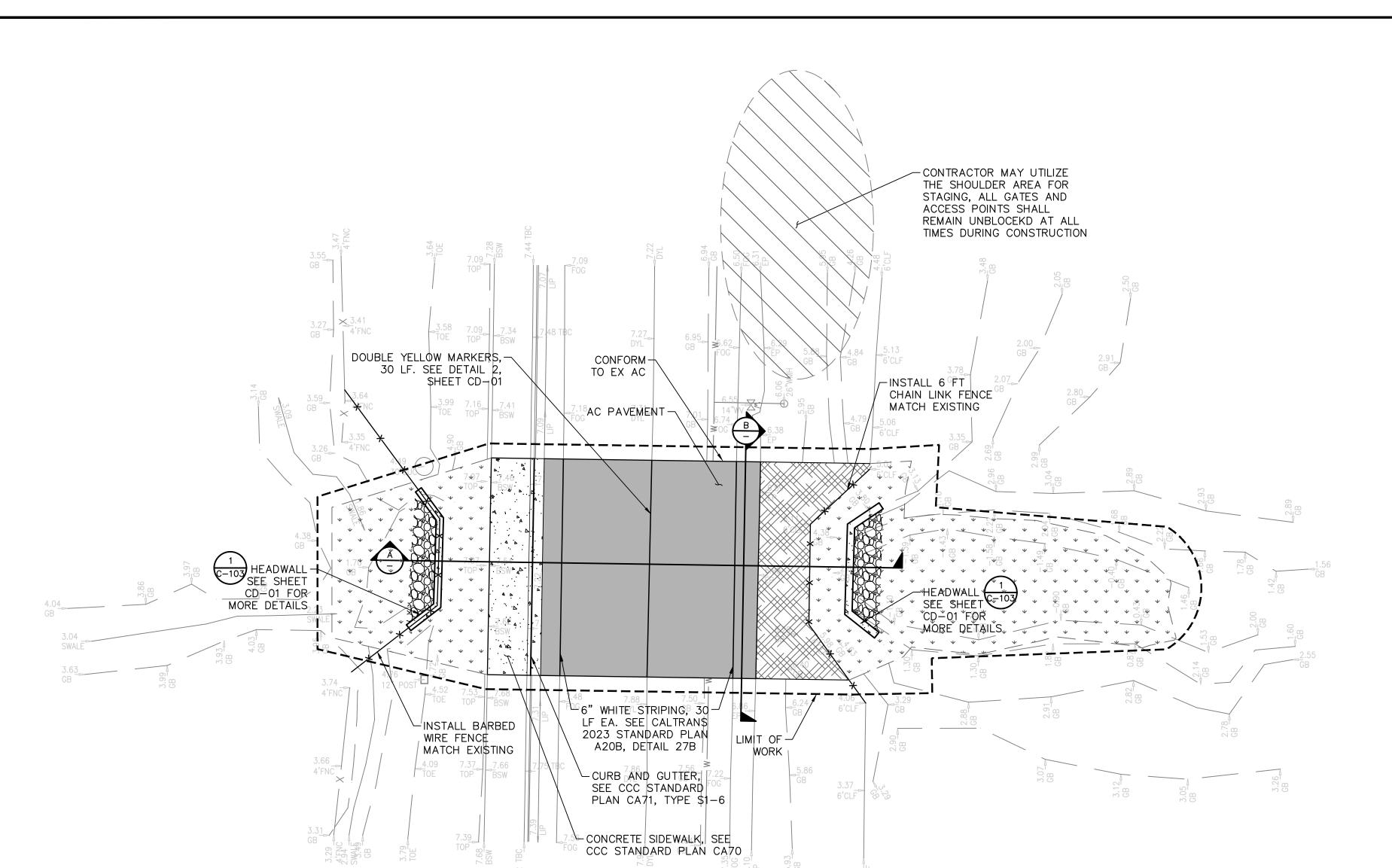


of 6

SHEET NO.

IM-01

3



LEGEND

CONCRETE SIDEWALK SEE CCC STANDARD PLAN CA70

AC PAVEMENT

CLASS II AB

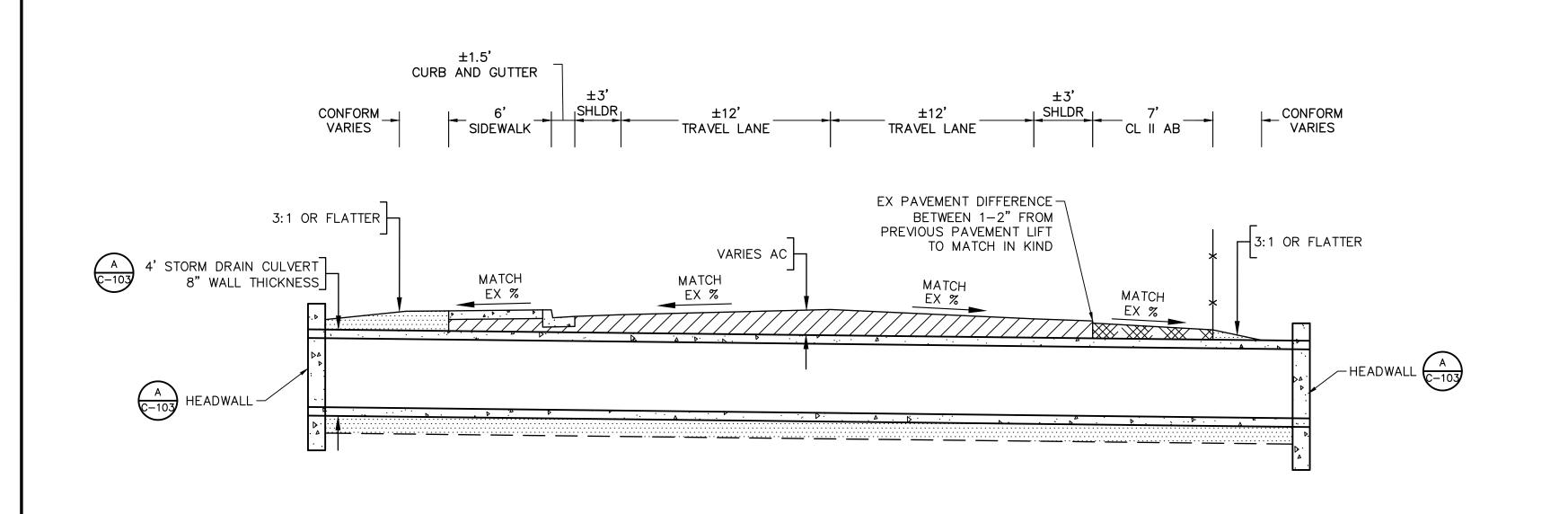
HYDROSEED (1,300 SF)

SURFACE IMPROVEMENTS NOTES

- 1. THE LIMITS OF WORK ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING SURROUNDINGS, LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION, AVOIDING ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS—SLOPES OR HAZARDOUS CONDITIONS.
- 2. EXISTING CONCRETE SHALL BE REMOVED AT THE NEAREST EXPANSION JOINTS.
- 3. NEW WORK SHALL MATCH EXISTING AS CLOSELY AS POSSIBLE IN FINISH, SCORING, AND COLOR.
- 4. EXISTING SITE FEATURES (CURBS, CONCRETE WALKS, LANDSCAPE, IRRIGATION, ETC.) DEMOLISHED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.
- 5. CONCRETE SHALL HAVE THICKENED WHERE ADJACENT TO LANDSCAPING.

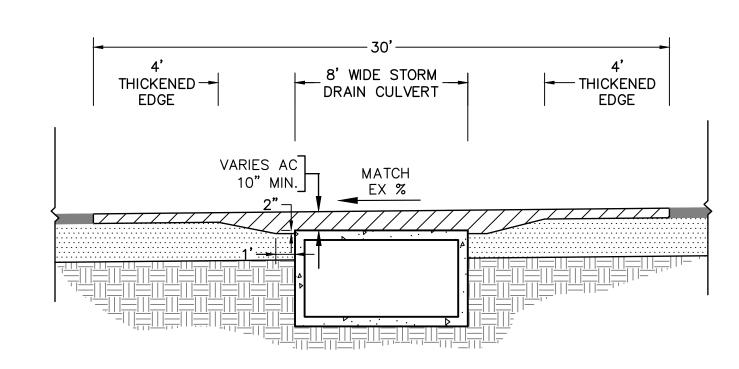
HYDROSEED						
ITEM	MATERIAL	MATERIAL TYPE	APPLICATION RATE			
HYDROSEED	SEED	MIX	23 LB/ACRE			
	FIBER	WOOD	2,000 LB/ACRE			
	TACKIFIER	PSYLLIUM	150 LB/ACRE			

PLAN VIEW SCALE : 1" = 10'



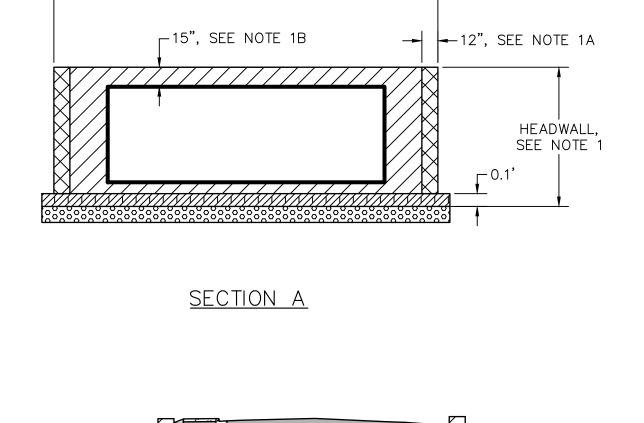
SECTION A

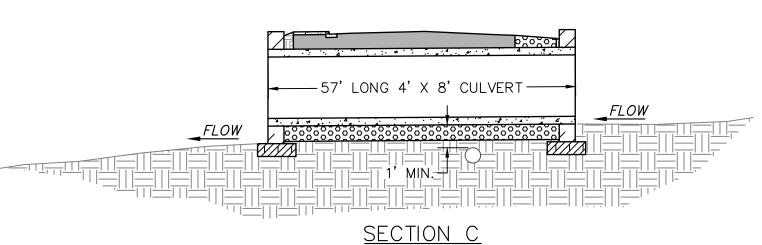
SCALE : 1" = 5'



SECTION B SCALE : 1" = 5'

<u>PLAN VIEW</u>

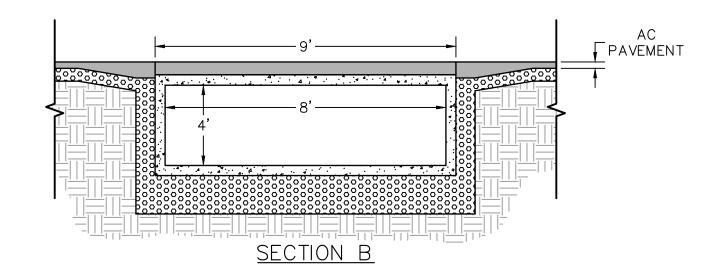




DETAIL 1 - 4' X X8' CULVERT

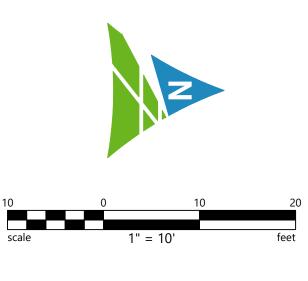
UTILITY NOTES

- 1. PROPOSED SITE PLAN HAS BEEN SCREENED FOR CLARITY.
- 2. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS. EXISTING STRUCTURES LOCATED WITHIN PROPOSED VEHICULAR ROADWAY, AN H-20 TRAFFIC-RATED TOP SHALL BE USED TO REPLACE THE EXISTING TOP OF THE ADJUSTED STRUCTURE.
- 3. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE CITY AND TO THE SATISFACTION OF THE ENGINEER.
- 4. THE EXISTING UTILITY LINES AND STRUCTURES SHOWN ON THESE PLANS ARE DERIVED FROM RECORD DATA, UNDERGROUND UTILITY SURVEY AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES AND STRUCTURES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
- 5. EXISTING UNDERGROUND UTILITIES, INCLUDING THOSE MARKED UNKNOWN, ARE BASED ON SURVEY COMPLETED BY OTHERS AND PROVIDED TO BKF ENGINEERS FOR INCLUSION IN PLANS.
- 6. EXISTING PIPE LINES MAY HAVE CATHODIC PROTECTION. CONTRACTOR SHALL ENSURE THAT ALL CONNECTIONS TO EXISTING PIPE LINES ARE ELECTRICALLY COMMON WITH THE PIPE LINE.
- 7. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 8. LENGTH OF PIPES ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED TO THE NEAREST FOOT AND ARE SHOWN FOR ENGINEERING CALCULATIONS ONLY. CONTRACTOR SHALL ESTIMATE THEIR OWN PIPE LENGTHS PRIOR TO BIDDING.
- 9. THE CONTRACTOR SHALL PHYSICALLY LOCATE THE 12" WATER LINE WITHIN THE LIMITS OF WORK, AS A FIRST ORDER OF WORK, AND PROVIDE THE CITY WITH THE RESULTS 5 WORKING DAYS BEFORE COMMENCING ANY EXCAVATION.



- NOTES

 1. INSTALL HEADWALLS AND WINGWALLS PER COUNTY OF CONTRA COSTA STANDARD PLAN NO. CD52 FOR TYPE "M" HEADWALL STRUCTURE.
- 1.A. HEADWALL AND WINGWALL THICKNESS SHALL ALL BE INCREASED TO TEN (10) INCHES.
- 1.B. HEIGHT OF THE HEADWALL SHALL INCREASED TO FIFTEEN (15) INCHES ABOVE TOP OF CULVERT.
- 2. DURING INSTALL OF THE DUAL 48" INCH CULVERT, ATTACHED HEADWALLS AND WINGWALLS, CONTRACTOR SHALL INSTALL A WATER BYPASS SYSTEM TO BE DESIGNED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK. ALL NECESSARY EROSION CONTROL MEASURES MUST ALSO BE INSTALL PER THE PROJECT STORM WATER POLLUTION PREVENTION PLAN.







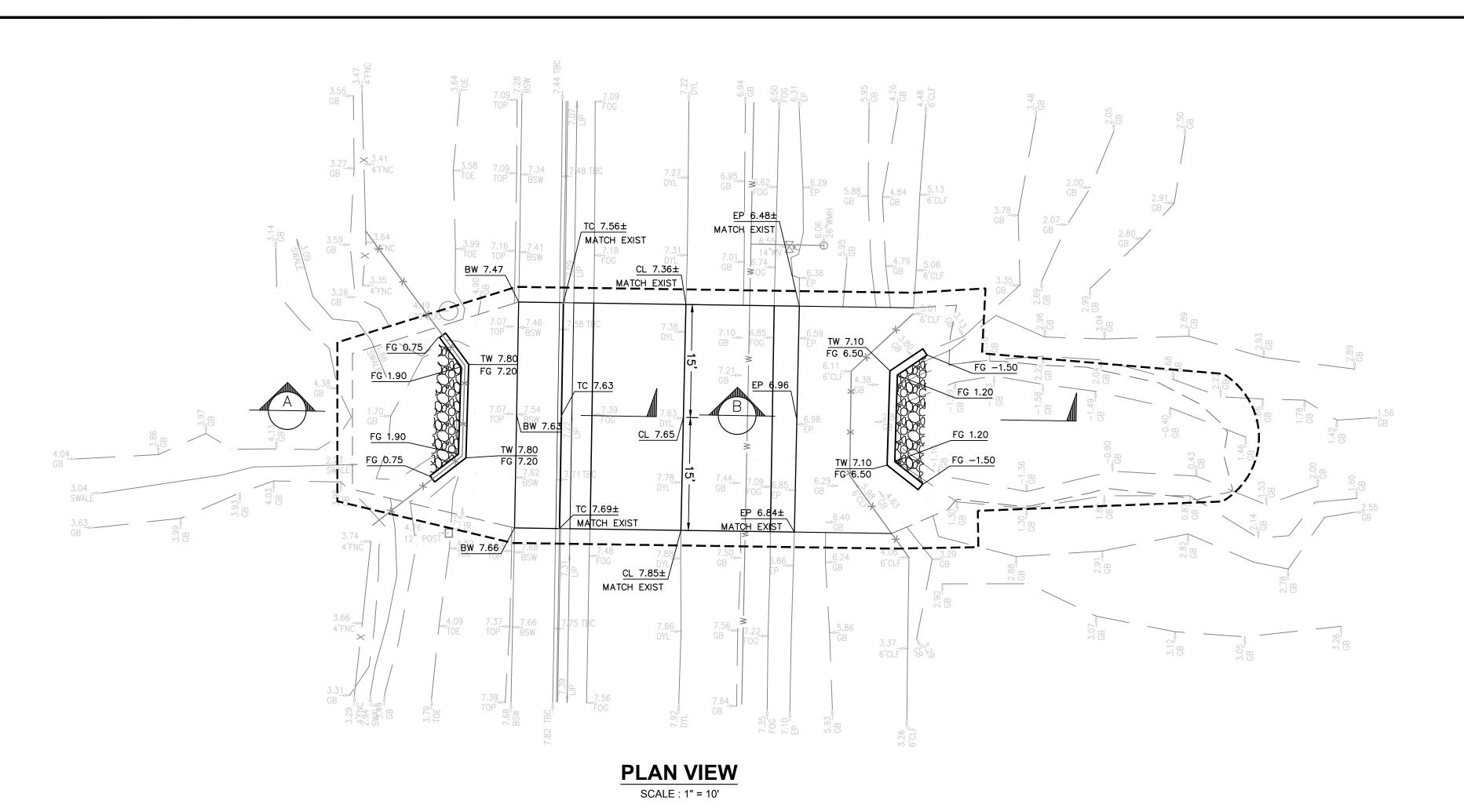


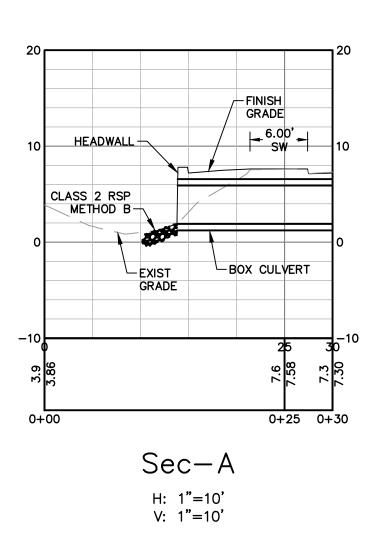
PLAN UTILITY

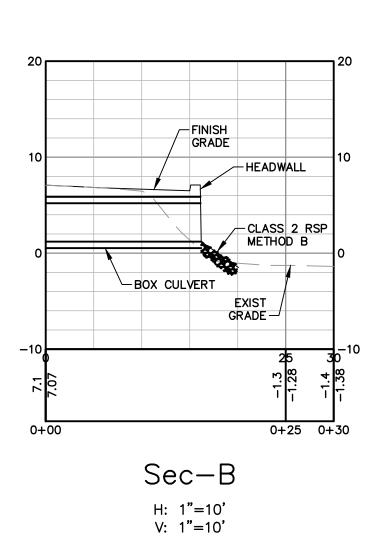
AD STORM I PROJECT No.

4 of 6

SHEET NO. **UT-01**







GRADING LEGEND

—100— PROPOSED CONTOUR

——99—— EXISTING CONTOUR

---- GRADE BREAK

ELEVATION LABEL:

BACK OF WALK CENTER LINE CL EΡ EDGE OF PAVEMENT

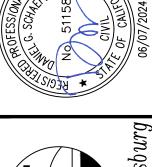
FG FINISHED GRADE TOP OF CURB TOP OF WALL

GRADING NOTES

- 1. PROPOSED SITE PLAN AND UTILITIES HAS BEEN SCREENED FOR CLARITY.
- 2. GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT.
- 3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT IN LANDSCAPED AREAS AND TWO-HUNDREDTHS OF A FOOT IN HARDSCAPED OR PAVED AREAS. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.
- 4. CONTRACTOR SHALL FIELD VERIFY FINISHED GRADE ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
- 5. CONTRACTOR SHALL TAKE CAUTION WHEN GRADING ADJACENT TO EXISTING FEATURES.
- 6. RIMS OF UTILITY STRUCTURES SHALL BE ADJUSTED TO FINISHED GRADE IN AREAS OF RE-GRADING. IN PAVED AREAS, ELEVATION DIFFERENCE SHALL NOT BE MORE THAN 1/4 INCH BETWEEN RIMS AND ADJACENT SURFACE.
- 7. WHERE IMPROVEMENTS INVOLVE ADA ACCESSIBILITY, CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING PARAMETERS THAT NEED TO BE MET WITH THE FINISHED CONSTRUCTION: a. WALKWAYS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE
 - OF 4.9% AND A MAXIMUM CROSS SLOPE OF 2%. b. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL
 - DIRECTIONS, INCLUDING DIAGONAL. c. TRANSITIONS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING CONDITIONS SHALL BE SMOOTH AND FREE OF ABRUPT CHANGES.
- * CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT CONFORMS PRIOR TO FORMING/AC WORK.









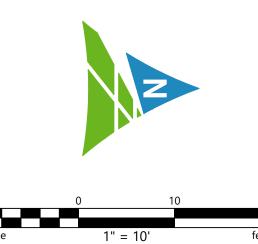
PLAN GRADING

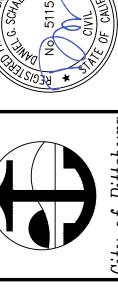
ROAD STORM I PROJECT No.

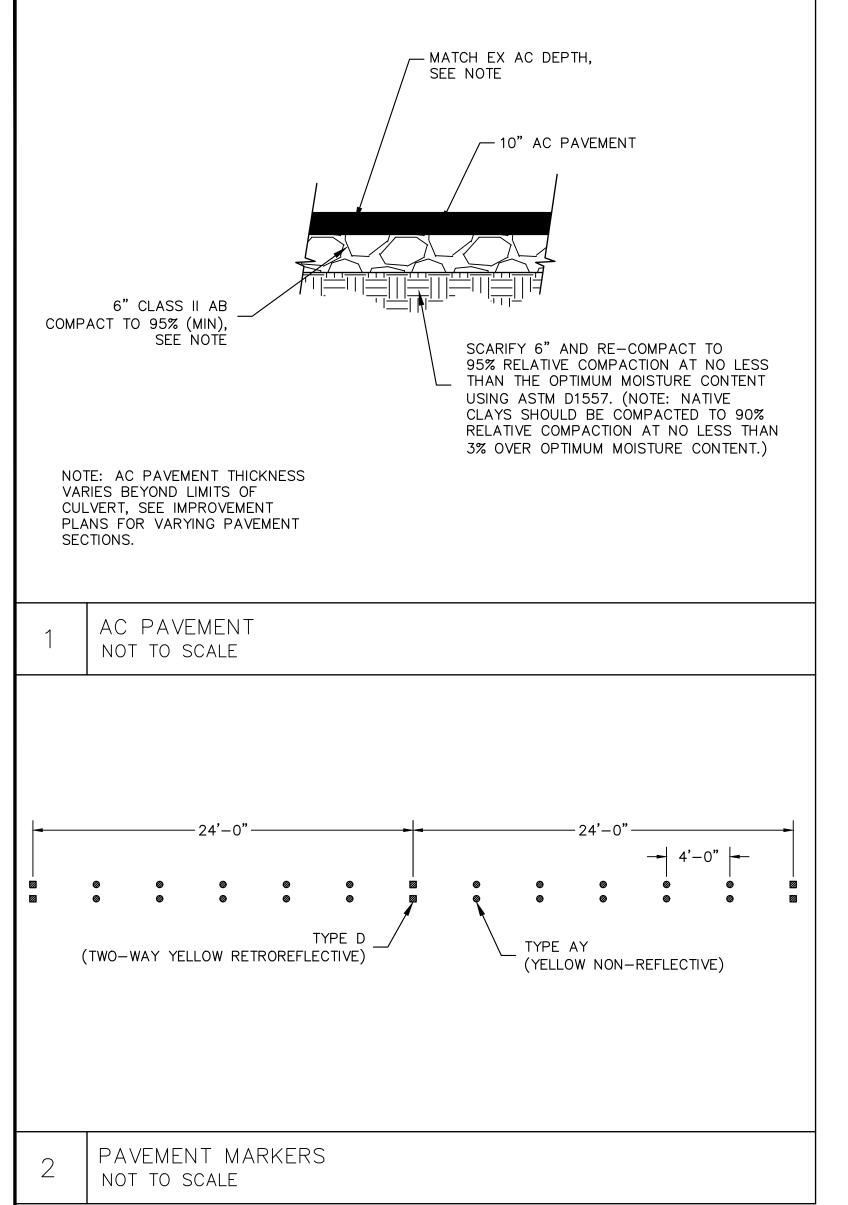
5 of 6

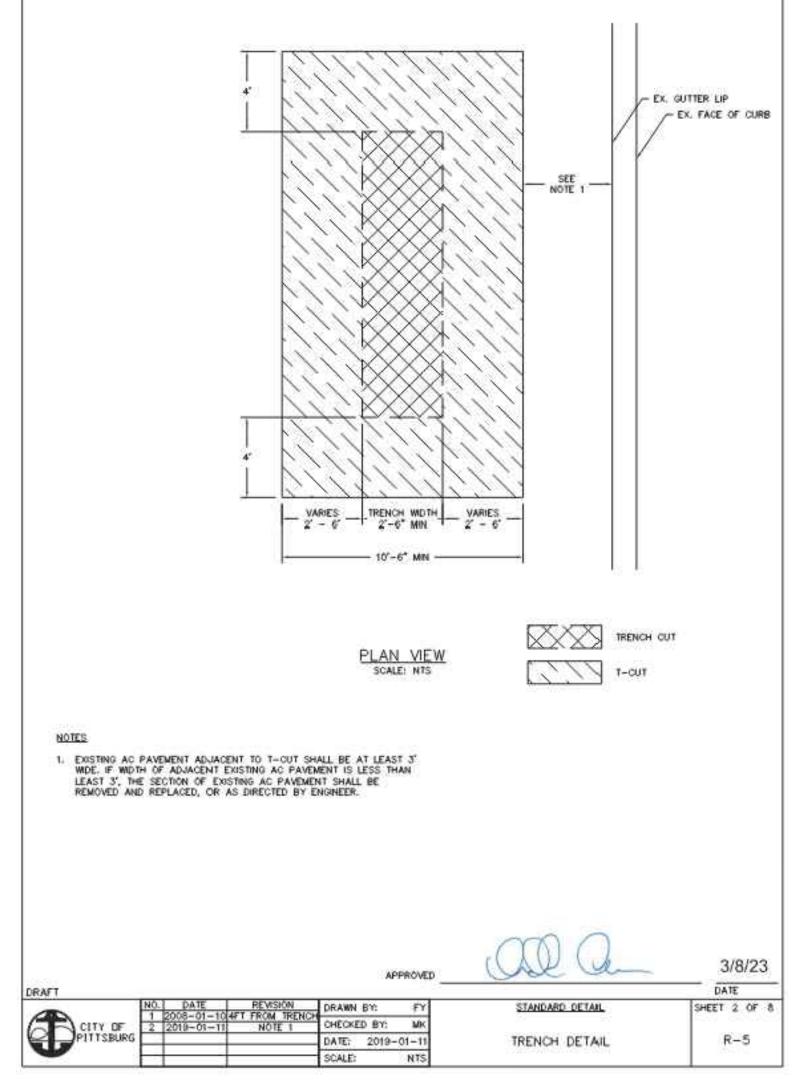
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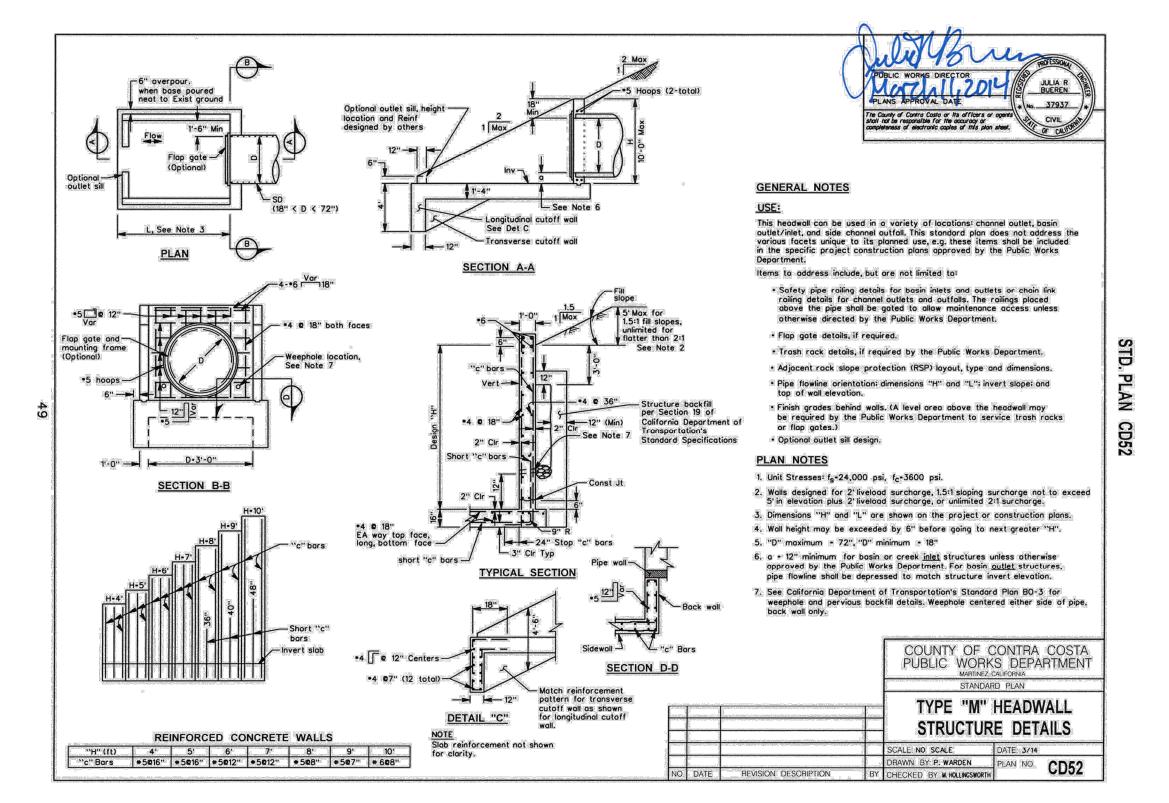
GR-01

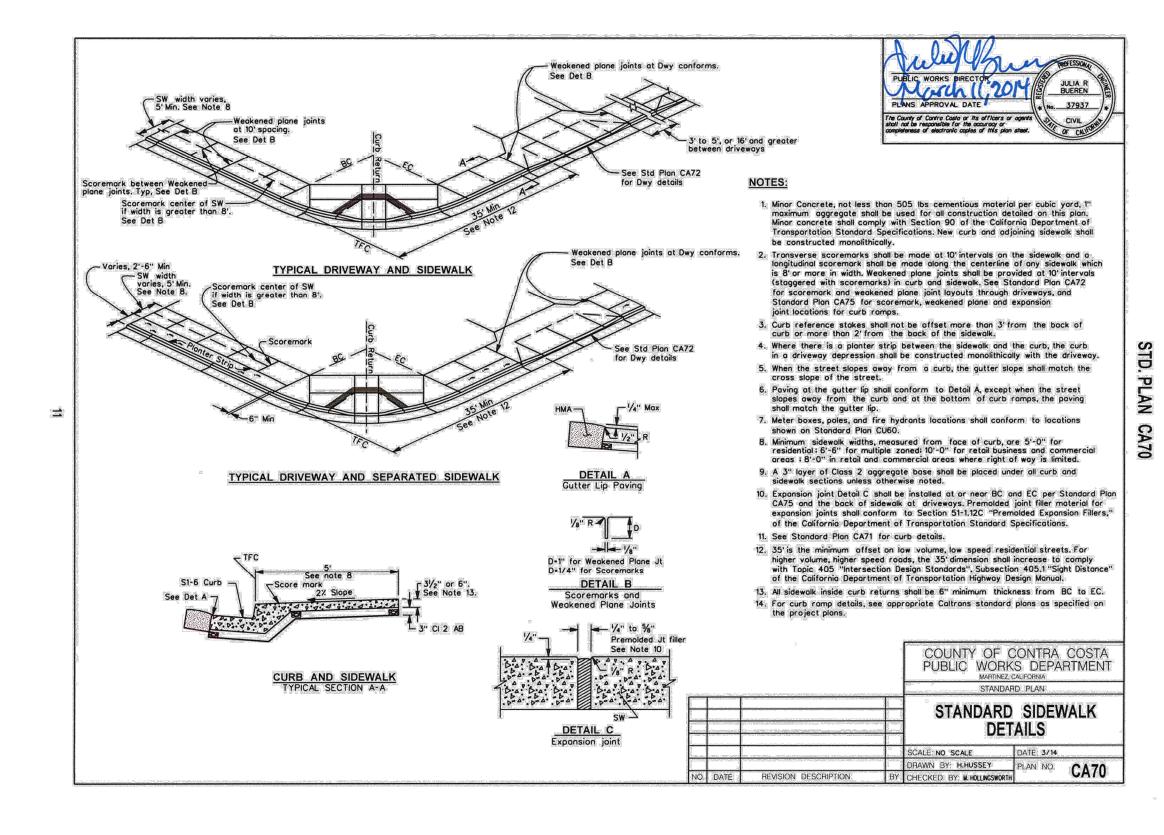


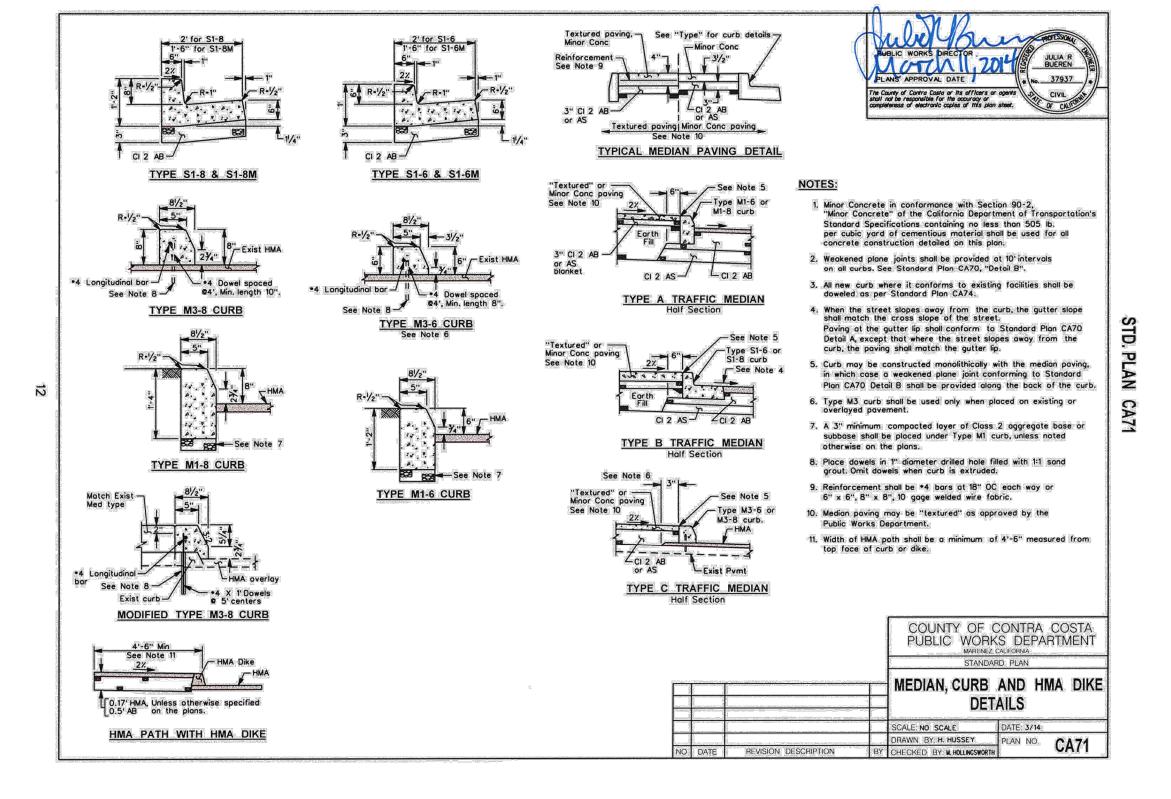








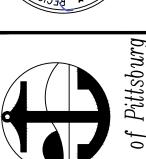












DETAIL CONSTRUCTION

ROAD STORM I

PASS

6 OF 6 SHEET NO.

CD-01