COUNTY OF IMPERIAL
SEELEY FIRE STATION AND COOLING CENTER
APN #051-241-019
1862 WEST EVAN HEWES HIGHWAY
SEELEY, CALIFORNIA

IMPERIAL COUNTY CALIFORNIA 1907

PROJECT DESCRIPTION

THE SEELEY FIRE STATION AND COOLING CENTER PROJECT SITE IS IN THE UNINCORPORATED COMMUNITY OF SEELEY IN IMPERIAL COUNTY. SEELEY IS LOCATED 7.5 MILES WEST OF EL CENTRO, CALIFORNIA AND IS LOCATED NEAR A NAVAL AIR FACILITY (NAF EL CENTRO). SEELEY'S 2010 POPULATION WAS 1,823. SEELEY IS PRIMARILY ACCESSED FROM DREW ROAD WHICH EXITS INTERSTATE 8. SEELEY IS LOCATED APPROXIMATELY 1 ½ MILES NORTH OF INTERSTATE 8.

THE COUNTY OF IMPERIAL HAS BEEN AWARDED FUNDS BY THE CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT THROUGH ITS COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM FOR THE SEELEY FIRE STATION AND COOLING CENTER PROJECT UNDER GRANT 18-CDBG-12924. PER THE CONDITIONS OF THE GRANT, THE PROJECT IS TO BE CONSTRUCTED AND OCCUPIED BY SEPTEMBER 2023.

THE SEELEY FIRE STATION AND COOLING CENTER IS A ONE STORY 4,735 SQUARE FOOT PRE-ENGINEERED METAL BUILDING WITH STUCCO EXTERIOR PANELS. THE SEELEY FIRE STATION IS COMPRISED OF AN APPARATUS BAY TO ACCOMMODATE TWO (2) FIRE TRUCKS, A FIRE STATION WITH OFFICES, LOCKERS, WASHROOM, RESTROOMS, LIVING QUARTERS AND SERVER ROOM AND A COOLING CENTER. THE 850 SQUARE FOOT COOLING CENTER SHALL BE AVAILABLE TO THE PUBLIC AS A REFUGE FOR PERSONS TO ACCESS A COOL SPACE DURING THE HOT SUMMER MONTHS. THE COOLING CENTER OCCUPANCY CAPACITY IS 56 PERSONS. THE PROJECT WILL INCLUDE AN EMERGENCY POWER GENERATOR SET TO PROVIDE THE FACILITY EMERGENCY POWER IN THE EVENT THE NORMAL POWER SOURCE FAILS.

THE SITE IMPROVEMENTS WILL INCLUDE A PCC DRIVEWAY ENTRANCE, ASPHALT CONCRETE PARKING LOTS WITH A TOTAL OF 23 PARKING SPACES AND TWO (2) HANDICAP PARKING SPACES AND AN ASPHALT CONCRETE FIRE TRUCK ACCESS ROADWAY. THE PCC DRIVEWAY ENTRANCE, ASPHALT CONCRETE PARKING LOTS AND ASPHALT CONCRETE FIRE TRUCK ACCESS ROADWAY SHALL BE PROVIDED WITH LIGHTING. THERE WILL BE THREE (3) INTERCONNECTED NATIVE EARTH RETENTION BASINS TO ACCEPT THE STORMWATER GENERATED BY THE PROJECT SITE. THE PROJECT SITE IMPROVEMENTS ALSO INCLUDE A TRASH ENCLOSURE AND PROJECT ENTRANCE SIGN.

THE COUNTY OF IMPERIAL IS THE OWNER OF THE SEELEY FIRE STATION AND COOLING CENTER PROJECT SITE. THE 2.47 ACRE PROJECT SITE IS LOCATED ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY BETWEEN MOUNT SIGNAL AVENUE AND NEW RIVER BOULEVARD. THE EXISTING PROJECT SITE IS UNDEVELOPED AND CONSISTS OF NATIVE EARTH. IT WILL BE NECESSARY TO CLEAR THE ENTIRE SITE OF BRUSH AND DEBRIS PRIOR TO COMMENCING EARTHWORK ACTIVITIES AT THE PROJECT SITE. THE EAST PORTION OF THE PROJECT SITE (MEASURING APPROXIMATELY 234.24 FEET X 270 FEET = 63,245 SQUARE FEET + OR - OR 1.45 ACRES + OR -) IS TO BE DEVELOPED FOR THE CONSTRUCTION OF THE SEELEY FIRE STATION AND COOLING CENTER FACILITY. THE WEST PORTION OF THE PROJECT SITE (MEASURING APPROXIMATELY 190.35 FEET X 233.15 FEET = 44,380 SQUARE FEET + OR - OR 1.02 ACRES + OR -) WILL NOT BE DEVELOPED; HOWEVER, IT IS TO BE CLEARED AND USED AS A BORROW AREA OR AREA TO ACCEPT NATIVE EARTH FROM THE DEVELOPED PROJECT SITE. A PORTION OF THE UNDEVELOPED AREA IS TO BE USED AS A STAGING AREA, CONTRACTOR PARKING AREA AND AREA TO LOCATE THE CONSTRUCTION PROJECT TRAILER. AT THE CONCLUSION OF THE PROJECT THE UNDEVELOPED SITE IS TO BE CLEARED OF CONSTRUCTION RELATED MATERIAL AND ITEMS. THE EXISTING NATIVE EARTH SURFACE IS TO BE LEVELED TO AN ELEVATION ACROSS THE UNDEVELOPED SITE WITHIN 0.10 FEET. THE UNDEVELOPED SITE NATIVE SURFACE IS TO BE COMPACTED TO 85 PERCENT OF MAXIMUM DENSITY PER ASTM D1557 AND BLADED SMOOTH.

THE EXISTING NATIVE EARTH DEVELOPED AREA IS APPROXIMATELY 2 FEET BELOW THE A.C. PAVEMENT CENTERLINE OF EVAN HEWES HIGHWAY. THE FINISH FLOOR OF THE NEW SEELEY FIRE STATION AND COOLING CENTER IS TO BE LOCATED APPROXIMATELY 1 FOOT HIGHER THAN THE CENTERLINE PAVEMENT OF EVAN HEWES HIGHWAY. THE GEOTECHNICAL REPORT FOR THIS PROJECT PREPARED BY SIERRA MATERIAL TESTING AND INSPECTIONS (PROJECT NO. EC957 DATED JANUARY 18, 2022) NOTES THAT THE UPPER 3 FEET OF THE EXISTING NATIVE SOIL CONSISTS OF RELATIVELY LOOSE FILL AND RECOMMENDS THIS LOOSE MATERIAL BE RECOMPACTED.

THE EARTHWORK TECHNICAL SPECIFICATIONS REQUIRES THE UPPER 3 FEET OF THE ENTIRE DEVELOPED AREA EXISTING NATIVE SURFACE BE MOISTURE CONDITIONED AND COMPACTED IN LIFTS AS DETAILED WITHIN THE SPECIFICATION. THE EXISTING UPPER 3 FEET OF NATIVE MATERIAL WILL NOTICE A HIGH SHRINKAGE PERCENTAGE WHEN COMPACTED PER THE SPECIFICATIONS. THE UNDEVELOPED SITE CAN BE USED AS A BORROW AREA TO OBTAIN ADDITIONAL NATIVE MATERIAL TO COMPENSATE FOR THE NATIVE EARTH SHRINKAGE. NATIVE EARTH OBTAINED FROM THE UNDEVELOPED SITE SHALL BE OBTAINED IN EVEN 1 FOOT LIFTS ACROSS THE ENTIRE UNDEVELOPED AREA PROJECT SITE. THE FINAL NATIVE EARTH SURFACE IS TO BE BROUGHT TO AN ELEVATION OF **958.00** ACROSS THE ENTIRE PROJECT SITE DEVELOPMENT AREA. GRANULAR SAND OR CLASS 2 BASE MATERIAL IS TO BE IMPORTED AND COMPACTED AS REQUIRED BY THE EARTHWORK TECHNICAL SPECIFICATIONS BENEATH THE PCC BUILDING SLAB AND FOUNDATION, PCC INFRASTRUCTURE AND ASPHALT CEMENT PAVEMENT INFRASTRUCTURE.

A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WAS PREPARED DURING THE PROJECT DESIGN PERIOD AS REQUIRED BY THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES. THE SWPPP IS INCLUDED AS A CONTRACT DOCUMENT ITEM. THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT THE PROVISIONS OF THE SWPPP INCLUDING THE EROSION CONTROL PLANS AND BEST MANAGEMENT PRACTICES (BMP'S). THE EROSION CONTROL PLANS ARE INCLUDED WITH THE IMPROVEMENT PLANS. THE CONTACTOR SHALL ENGAGE A QUALIFIED SWPPP PRACTITIONER (QSP) FOR SITE INSPECTION AND REPORTING SERVICES. THE QSP SHALL ASSIST THE COUNTY OF IMPERIAL (OWNER) IN OBTAINING A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID). THE QSP SHALL ASSIST THE COUNTY OF IMPERIAL IN FILING DAILY, QUARTERLY, AND ANNUAL REPORTS, FILING THE NOTICE OF TERMINATION (NOT) AT THE PROJECT CONCLUSION AND ALL OTHER REQUIRED SWPPP DOCUMENTS THROUGH THE STORM WATER MULTI APPLICATION AND REPORT TRACKING SYSTEM (SMARTS). THE COUNTY OF IMPERIAL SHALL PAY FOR ALL SWPPP AND SMARTS FILING FEES. THE CONTRACTOR SHALL PAY FOR SERVICES OF THE QSP THROUGHOUT THE PROJECT DURATION.

THE SEELEY FIRE STATION AND COOLING CENTER PROJECT WILL REQUIRE ELECTRICAL, GAS, POTABLE WATER AND SANITARY SEWER SERVICES. APPLICATIONS FOR THE UTILITY SERVICES WERE SUBMITTED TO THE UTILITY AGENCIES DURING THE DESIGN PERIOD.

A CUSTOMER SERVICE PROPOSAL (CSP) WAS SUBMITTED TO THE IMPERIAL IRRIGATION DISTRICT ENERGY DEPARTMENT BY THE COUNTY OF IMPERIAL DURING THE PROJECT DESIGN PHASE. THE IID ENERGY DEPARTMENT COMPLETES ELECTRICAL DESIGN PLANS FOR PROVIDING PRIMARY AND SECONDARY ELECTRICAL POWER TO THE PROJECT. THE IID ENERGY DEPARTMENT PERSONNEL INSTALL THE PROJECT PRIMARY AND SECONDARY ELECTRICAL FACILITIES DURING THE PROJECT CONSTRUCTION PERIOD. THE COMPLETED CSP PLANS, AND COSTS WILL BE ISSUED BY THE IID TO THE COUNTY OF IMPERIAL. THE COUNTY OF IMPERIAL WILL FORWARD THE COMPLETED AND APPROVED IID CSP PLANS AND COSTS TO THE CONTRACTOR. THE CONTRACTOR SHALL PAY FOR THE COSTS OF THE CSP CONSTRUCTION RELATED FEES INCLUDING THE IID ELECTRICAL PERSONAL, ELECTRICAL FACILITIES, ADMINISTRATIVE FEES AND ALL OTHER CONSTRUCTION RELATED ITEMS. THE BID FORMS HAVE INCLUDED CSP CONSTRUCTION RELATED FEES IN AN AMOUNT OF $20,000. IF THE ACTUAL IID CSP FEES ARE GREATER THAN $20,000 A POSITIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE CONTRACTOR FOR THE COST OF THE CSP FEE MORE THAN $20,000. IF THE ACTUAL IID CSP FEE IS LESS THAN $20,000 A NEGATIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE COUNTY OF IMPERIAL FOR THE DIFFERENCE BETWEEN THE $20,000 CSP BID AMOUNT AND THE ACTUAL CSP FEE.

A SOUTHERN CALIFORNIA GAS (SCG) APPLICATION WAS SUBMITTED FOR THE FIRE STATION AND COOLING CENTER GAS RELATED SERVICES DURING THE DESIGN PHASE. THE CONTRACTOR SHALL PAY FOR THE COSTS OF THE SCG SERVICE INSTALLATION AND RELATED FEES. SCG PERSONNEL WILL INSTALL A NEW GAS SERVICE FROM THE EXISTING GAS PIPELINE ALONG THE SOUTH SIDE OF EVAN HEWES HIGHWAY TO THE GAS SERVICE POINT OF CONNECTION (POC) NEAR THE SOUTHEAST CORNER OF THE SEELEY FIRE STATION AND COOLING CENTER BUILDING. THE BID FORMS HAVE INCLUDED A SCG FEE OF $15,000 FOR THE CONSTRUCTION OF THE GAS SERVICE PIPELINE TO THE POC AND FOR THE PAYMENT

OF ANY OTHER SCG FEES. IF THE ACTUAL SCG FEES ARE GREATER THAN $15,000 A POSITIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE CONTRACTOR FOR THE COST OF THE SCG FEE IN EXCESS OF $15,000. IF THE ACTUAL SCG FEES ARE LESS THAN $15,000 A NEGATIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE COUNTY OF IMPERIAL FOR THE DIFFERENCE BETWEEN THE $15,000 SCG SERVICE INSTALLATION AND RELATED FEE BID AMOUNT AND THE ACTUAL SCG FEE.

WATER AND SANITARY SEWER SERVICES FOR THIS PROJECT SHALL BE SUPPLIED BY THE SEELEY COUNTY WATER DISTRICT. AN 8 INCH WATER MAIN PIPELINE EXTENSION AND 8 INCH SANITARY SEWER MAIN PIPELINE EXTENSION WILL BE REQUIRED ALONG EVAN HEWES HIGHWAY FROM MOUNT SIGNAL DRIVE TO THE PROJECT SITE TO SERVICE THE SEELEY FIRE STATION AND COOLING CENTER. SEE CIVIL PLAN AND PROFILE PLAN SHEET 18. THE WATER MAIN AND SANITARY SEWER MAIN WILL BE CONSTRUCTED IN IMPERIAL COUNTY RIGHT OF WAY. A SANITARY SEWER LATERAL, DOMESTIC WATER SERVICE EXTENSION, FIRE HYDRANT WATER PIPELINE EXTENSION AND FIRE SPRINKLER SYSTEM WATER PIPELINE EXTENSION WILL ALSO BE LOCATED IN EVAN HEWES HIGHWAY RIGHT OF WAY. AN ENCROACHMENT PERMIT APPLICATION WAS SUBMITTED TO THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT DURING THE PROJECT DESIGN FOR THE CONSTRUCTION OF THE WATER AND SANITARY SEWER PIPELINES WITHIN IMPERIAL COUNTY RIGHT OF WAY. THE PROJECT DRIVEWAY ENTRANCE IMPROVEMENTS, STORMWATER PIPELINE IMPROVEMENT BENEATH THE DRIVEWAY ENTRANCE AND NATIVE EARTH STORMWATER SWALE GRADING ALONG THE NORTH AND SOUTH SIDES OF EVAN HEWES HIGHWAY ARE ALSO INCLUDED WITH THE ENCROACHMENT PERMIT. AN UNDERGROUND FIBER OPTIC CABLE IS LOCATED ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY AS ILLUSTRATED ON THE PLANS. AT&T WAS CONTACTED DURING THE PROJECT DESIGN TO DISCUSS THE POSSIBLE CONFLICT BETWEEN THE FIBER OPTIC CABLE AND THE NEW STORMWATER PIPELINE TO BE INSTALLED BENEATH THE PROJECT PCC DRIVEWAY ENTRANCE. THIS ITEM WAS UNDER REVIEW AT THE CONCLUSION OF THE PROJECT DESIGN. THE BID FORMS HAVE INCLUDED A COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT ENCROACHMENT PERMIT FEE OF $5,000 FOR THE ISSUANCE OF THE ENCROACHMENT PERMIT TO THE CONTRACTOR AND ASSOCIATED CONSTRUCTION INSPECTION FEES. THE CONTRACTOR SHALL ALSO BE REQUIRED TO PROVIDE THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REQUIRED INSURANCE. IF THE ACTUAL ENCROACHMENT PERMIT FEES ARE GREATER THAN $5,000 A POSITIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE CONTRACTOR FOR THE COST OF THE ENCROACHMENT PERMIT FEE IN EXCESS OF $5,000. IF THE ACTUAL ENCROACHMENT PERMIT FEE IS LESS THAN $5,000 A NEGATIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE COUNTY OF IMPERIAL FOR THE DIFFERENCE BETWEEN THE $5,000 BID ITEM AMOUNT AND THE ACTUAL ENCROACHMENT PERMIT FEE.

THE CONTRACTOR SHALL INSTALL THE FIRE HYDRANT WATER PIPELINE SERVICE, SPRINKLER WATER PIPELINE AND BACKFLOW PREVENTER, DOMESTIC WATER METER SERVICE AND BACKFLOW PREVENTER AND SANITARY SEWER LATERAL EXTENSION WITHIN THE SEELEY FIRE STATION AND COOLING CENTER PROJECT SITE AS ILLUSTRATED ON THE APPROVED IMPROVEMENT PLANS. THE SEELEY COUNTY WATER DISTRICT WATER AND SEWER FEES FOR THIS PROJECT WERE PAID BY THE COUNTY OF IMPERIAL DURING THE PROJECT DESIGN PHASE. THE CONTRACTOR SHALL COORDINATE WITH THE SEELEY COUNTY WATER DISTRICT REPRESENTATIVES AND CONSTRUCTION MANAGER DURING THE CONSTRUCTION PERIOD FOR THE INSPECTION AND APPROVAL OF THE PROJECT WATER AND SEWER SERVICES IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

GENERAL NOTES

STREET IMPROVEMENT GENERAL NOTES

1. COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.
2. 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).
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS-GUTTER AND PAVING.
5. 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.
6. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
7. 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.

A. COUNTY OF IMPERIAL
DEPARTMENT OF PUBLIC WORKS
155 S. ELEVENTH STREET
EL CENTRO, CA 92243
PHONE: (442) 265-1818
CONTACT: JOHN GAY, P.E.

B. SEELEY COUNTY WATER DISTRICT
1898 WEST MAIN STREET
SEELEY, CA 92273
PHONE: (760) 425-0041
CONTACT: MIRIAM ROSALES

C. SPECTRUM
313 N. EIGHTH STREET
EL CENTRO, CA 92243
PHONE: (760) 679-5294
CONTACT: CHRIS CORTEZ

D. SOUTHERN CALIFORNIA GAS COMPANY-PLANNING DEPARTMENT
P.O. BOX 3003
1981 W. LUGONIA AVENUE
REDLANDS, CA 92373
PHONE: (909) 335-7561
CONTACT: ANTONIO MORALES

E. SOUTHERN CALIFORNIA GAS COMPANY
602 EAST ROSS AVENUE
EL CENTRO, CA 92243
PHONE: (760) 370-5812
CONTACT: ENRIQUE CUEVAS

F. IMPERIAL IRRIGATION DISTRICT - POWER DIVISION
333 WATERMAN AVENUE
EL CENTRO, CA 92243
PHONE: (760) 482-3426
CONTACT: IGNACIO ROMO

G. IMPERIAL IRRIGATION DISTRICT - WATER DIVISION
333 E. BARIONI BLVD.T
IMPERIAL CA. 92251
PHONE: (760) 339-9507
CONTACT: ISMAEL GOMEZ, P.E.

H. AT&T
1029 S. SECOND STREET
EL CENTRO, CA 92243
PHONE: (760) 337-3358
CONTACT: DANIEL GARCIA

I. UNDERGROUND SERVICE ALERT
PHONE: 811

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 HERON 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 CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, AT&T, IMPERIAL IRRIGATION DISTRICT WATER AND POWER DIVISIONS, SEELEY COUNTY WATER DISTRICT, AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.

8. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
9. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
10. 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.
11. ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.
12. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
13. THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.
14. 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, (760) 482-4462. 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.
15. 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.
16. 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 SPECIFICATIONS & THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY; WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.
17. 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 2010". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.
18. 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.
19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE PROVISIONS OF THE GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A QUALIFIED SWPPP PRACTITIONER (QSP) FOR THIS PROJECT. CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812".
20. CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNER/DEVELOPERS WITH THE QSP ASSISTANCE 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.
21. 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.
22. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) OR AS DIRECTED BY THE IMPERIAL COUNTY TRAFFIC ENGINEER OR IMPROVEMENT PLANS.
23. 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 CONTRACTORS OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTING 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.
24. 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.
25. THE NOTES LISTED ABOVE ARE A MINIMUM LIST. THIS DOES NOT RELIEVE THE ENGINEER FROM COMPILING ADDITIONAL NOTES THAT MAY BE REQUIRED FOR THE PROJECT.

GRADING PLAN GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. 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.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. 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, (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE AT CONTACT NUMBER 811. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE AGENCIES LISTED ON SECTION 7 OF THE STREET IMPROVEMENT GENERAL NOTES.
6. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT AND/OR GRADING PLAN APPROVAL.
7. 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 PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING DEPARTMENT.
8. 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 ONSITE OR PERIMETER SCREEN OR RETAINING WALLS.
9. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
10. 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 SILTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
11. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF THE PLANNING DEPARTMENT AND THE DISCOVERY. GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING TO DO SO.
12. 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.
13. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.
14. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
15. 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.
16. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE APPROVED PM10 PLAN. APPROVAL SHALL BE BY IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT.
17. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE EXISTING GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
18. THE MAXIMUM ALLOWABLE CUT AND FILL SLOPES ARE 2:1, UNLESS A SLOPE STABILITY ANALYSIS AUTHORIZES A STEEPER SLOPE AND HAS BEEN APPROVED.
19. 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.
20. A BROW DITCH DESIGNED TO HANDLE THE FLOWS (Q) FROM A 100-YR. STORM EVENT SHALL BE CONSTRUCTED ALONG THE TOP OF ALL CUT SLOPES.
21. NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED.
22. 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.
23. 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.
24. 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.
25. 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.
26. THE CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" AT 811 A MINIMUM OF TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY DIGGING OR EXCAVATION.

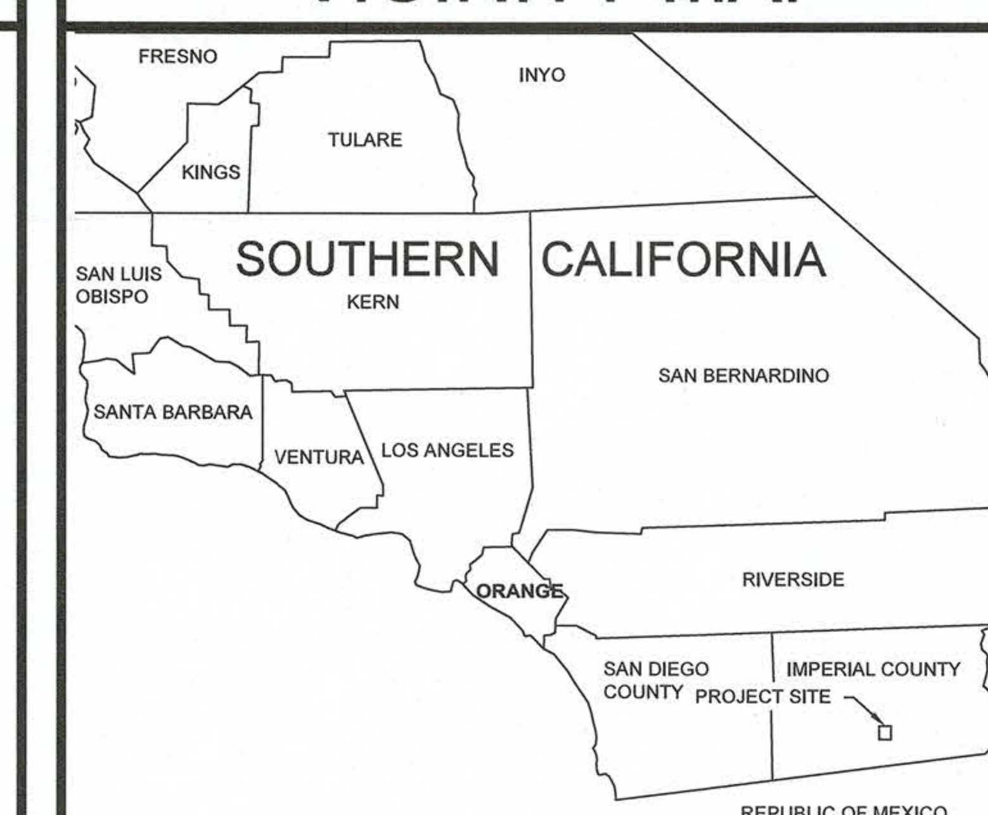
GEOTECHNICAL ENGINEER'S STATEMENT

I STATE THAT I HAVE REVIEWED THESE PLANS AND FIND THAT THEY SUBSTANTIALLY CONFORM TO THE RECOMMENDATIONS SET FORTH IN REPORT NO. EC957 DATED JULY 07, 2022 PREPARED IN OUR OFFICE.

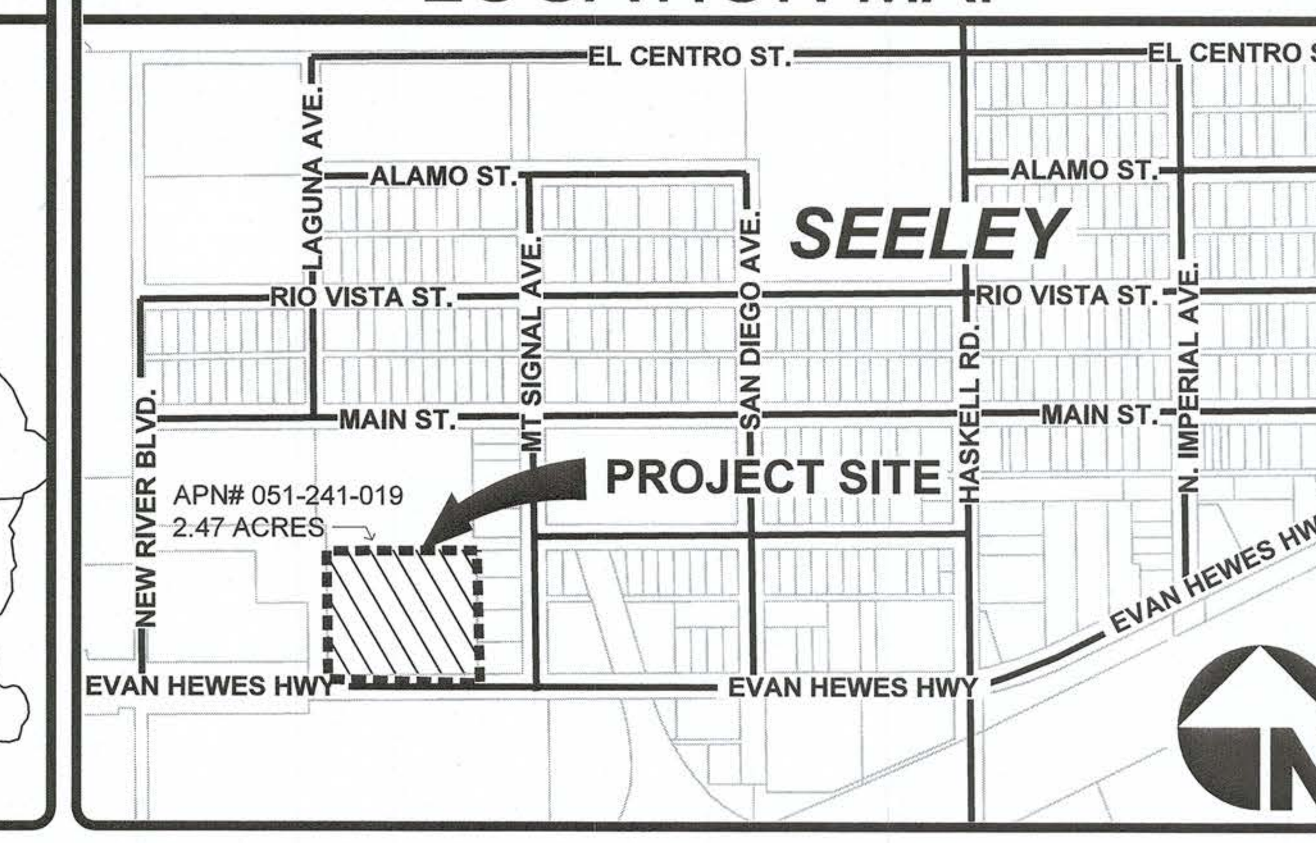
ROBERTO MARTINEZ, P.E.
SIERRA MATERIAL TESTING & INSPECTION
1003 INDUSTRY WAY, SUITE A
EL CENTRO, CALIFORNIA 92243
PHONE: (760) 337-2067

ROBERTO MARTINEZ, P.E. — 7/20/22 DATE

VICINITY MAP



LOCATION MAP



SHEET INDEX

SHEET NO.	DRAWING NO.	SHEET TITLE ON-SITES
1.	C1.01	TITLE SHEET
2.	C1.02	SHEET INDEX/SITE PLAN
3.	C1.03	EXISTING/DEMOLITION SITE PLAN
4.	C1.04	GRADING IMPROVEMENT PLAN
5.	C1.05	GRADING IMPROVEMENT PLAN
6.	C1.06	FENCING AND UTILITY PLAN
7.	C1.07	HANDICAP PARKING LOT BLOW-UP DETAIL
8.	C1.08	GRADING AND FINISH SURFACE SECTIONS
9.	C1.09	WATER, SANITARY SEWER, PAVING AND SITE GRADING DETAIL SHEET
10.	C1.10	SOLID WASTE ENCLOSURE PLAN
11.	C1.11	WATER AND SANITARY SEWER DETAIL SHEET
12.	C1.12	CHAIN LINK FENCE DETAIL SHEET
13.	C1.13	MISCELLANEOUS DETAIL SHEET
14.	C1.14	SOLID WASTE ENCLOSURE SECTIONS AND DETAILS
15.	C1.15	EROSION CONTROL PLAN AND CONTRACTOR STAGING AREA
16.	C1.16	EROSION CONTROL DETAILS
17.	C1.17	HORIZONTAL CONTROL PLAN
18.	C2.01	EVAN HEWES HIGHWAY WATER AND SANITARY SEWER PLAN AND PROFILE SHEET
19.	C2.02	STORM WATER DRAINAGE SWALE AND SECTIONS
20.	C2.03	WATER AND SEWER DETAIL SHEET
21.	C2.04	WATER, SEWER AND DEPRESSED CURB & GUTTER DETAIL SHEET
22.	C2.05	TRAFFIC CONTROL PLAN
23.	C2.06	SIGNAGE AND STRIPING PLAN

APPROVAL FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER JOHN A. GAY No. 62028 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:

JOHN GAY, P.E.
DIRECTOR OF PUBLIC WORKS — 62028 R.C.E. No.

9/30/22 DATE — 09/30/23 REG. EXP.

SITE ACREAGE

2.47 ACRES

EARTHWORK

FILL 11,684 CYD

NATIVE EARTH CUT 7,330 CYD

DECLARATION OF RESPONSIBLE CHARGE

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

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

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

JAMES G. HOLT, P.E.
R.C.E. NO. 31773 — 7/8/2022 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 811 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

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1601 N. Imperial Ave.
El Centro, CA 92243
(760) 337-3883

BLYTHE OFFICE
201 E. Hobsonway
Blythe, CA 92225
(760) 922-4658

NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:
NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE: SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT: TITLE SHEET

C1.01 SHEET
1 OF 23 SHEETS
JOB NO. 542.088

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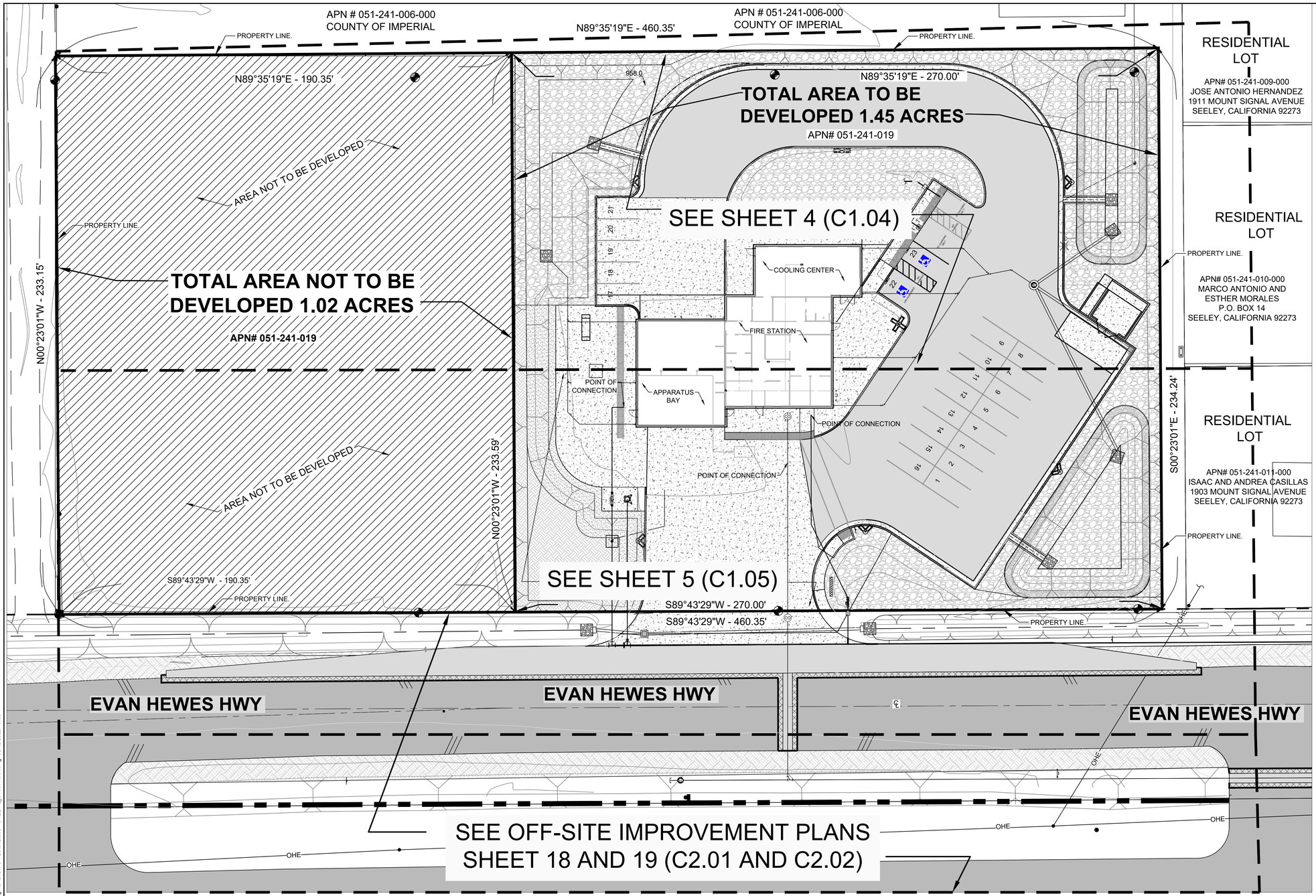

ABBREVIATIONS

AGG.	AGGREGATE	L.	LENGTH
APP.	APPROXIMATE	LIP.	LIP OF CURB IN DRIVEWAYS
A.C.P.	ASBESTOS CEMENT PIPE	M.C.	MIDDLE OF CURVE
A.C.	ASPHALT CONCRETE	M.H.	MANHOLE
B.C.	BEGINNING OF CURVE RADIUS	MAX.	MAXIMUM
B.O.C.	BACK OF CURB	MIN.	MINIMUM
BLDG.	BUILDING	MISC.	MISCELLANEOUS
B.V.	BUTTERFLY VALVE	N.T.S.	NOT TO SCALE
C.H.	CHORD	O.C.	ON CENTER
C.I.	CAST IRON	O.D.	OUTSIDE DIAMETER
C.B.	CATCH BASIN	OHE	OVERHEAD ELECTRICAL LINE
C.M.C.	CEMENT MORTAR COATED	P.E.	PAD ELEVATION
C.M.L.	CEMENT MORTAR LINED	%	PERCENT
℄	CENTERLINE	P.I.	POINT OF INFLECTION
CL2	CLASS 2 BASE	P.I.G.	POINT OF INTERSECTING GRADES
C & G	CURB AND GUTTER	P.I.T.	POINT OF INTERSECTING TANGENTS
DIA.	DIAMETER	PIV	POST INDICATOR VALVE
DN	DOWN	P.O.C.	POINT OF CONNECTION
D/W	DRIVEWAY	P.V.C.	POLY VINYL CHLORIDE
Δ	DELTA	P.C.C.	PORTLAND CONCRETE CEMENT
E.P.	EDGE OF PAVEMENT	P.P.	POWER POLE
EL.	ELEVATION	R.	RADIUS
E.C.	END OF CURVE RADIUS	R.C.P.	REINFORCED CONCRETE PIPE
FDC	FIRE DEPARTMENT CONNECTION	R/W OR ROW	RIGHT-OF-WAY
F.O.C.	FACE OF CURB	RW	RESILIENT WEDGE
F.F.	FINISH FLOOR ELEVATION	S/W	SIDEWALK
℄/ FL	FLOWLINE	S.	SLOPE
F.S.	FINISH SURFACE	SD	STORM DRAIN
G.B.	GRADE BREAK	SS	SANITARY SEWER
G	GAS PIPELINE	SCWD	SEELEY COUNTY WATER DISTRICT
G.V.	GATE VALVE	STA	STATION
H.B.	HOSE BIB	T.	TANGENT
I.I.D.	IMPERIAL IRRIGATION DISTRICT	TOP	TOP OF SLOPE
ICDPW	IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS	TC	TOP OF CONCRETE
		TCC	TOP OF CONCRETE CURB
I.D.	INSIDE DIAMETER	TMH	TOP OF MANHOLE
INV.	INVERT	T.P.	TOP OF PAVEMENT
		UT	UNDERGROUND TELEPHONE

LEGEND

ITEM NO.	ITEM	SYMBOL
1	NEW A.C. PAVEMENT	
2	P.C.C. STRUCTURES	
3	SIGN	
4	POWER POLE	
5	GUY WIRE	
6	EXISTING PALM TREE	
7	EXISTING TREE/VEGETATION	
8	COLD PLANE PAVEMENT	
9	RIGHT OF WAY	ROW
10	EXISTING A.C. PAVEMENT	
11	EXISTING FENCE	
12	PROPERTY LINE	℄
13	AREA NOT TO BE DEVELOPED	
14	AREA TO BE DEVELOPED	
15	SURVEY MONUMENTS	

NOTE: THE TOTAL PROJECT SITE IS 2.47 ACRES

N

20 0 20 40 60

SCALE 1"= 20'

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NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT

07/08/2022
DATE

31773
R.C.E. NO.

12/31/2022
REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

SHEET INDEX / SITE PLAN

C1.02
SHEET
2
OF 23 SHEETS
JOB NO.
542.088

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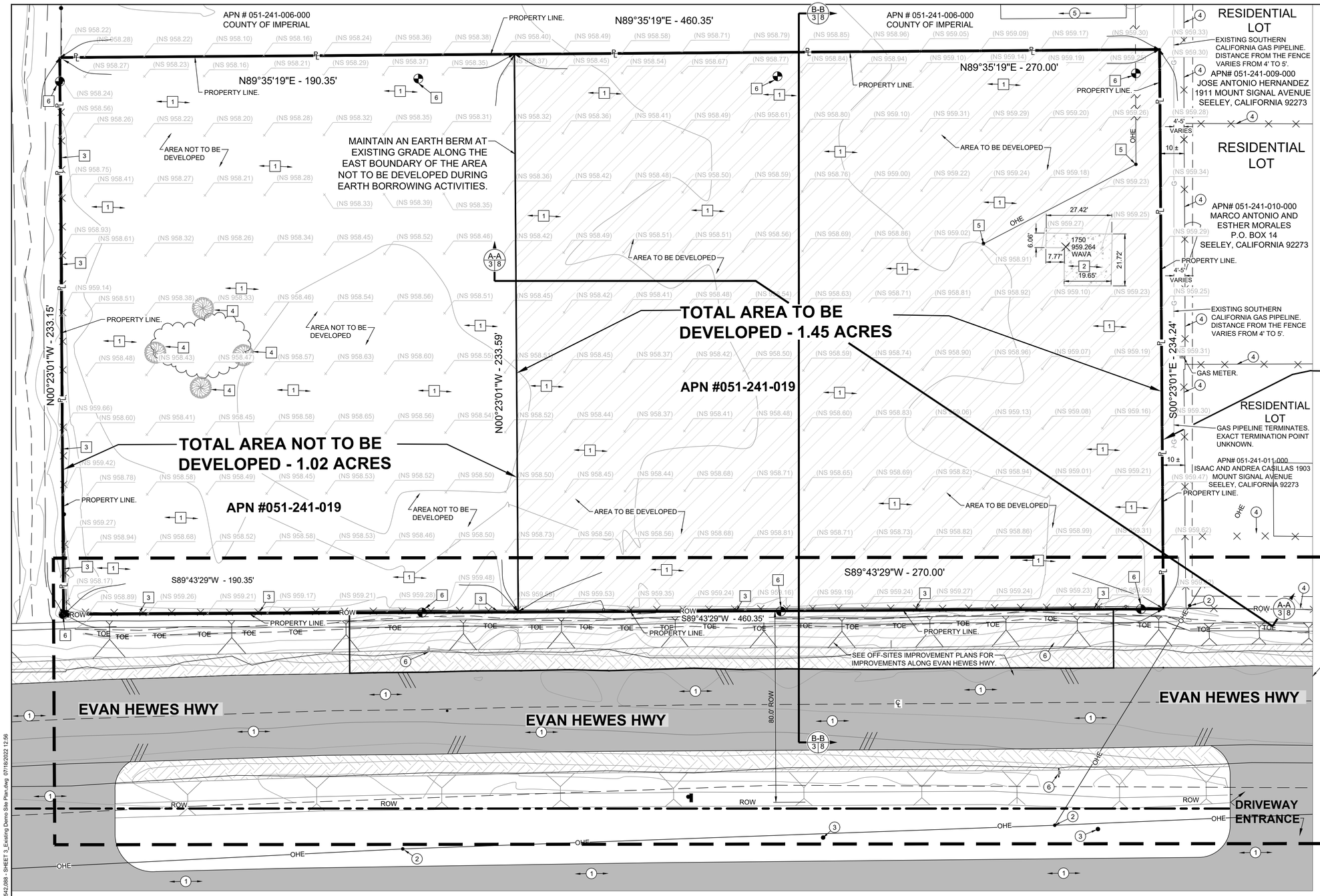

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING COMMUNICATION ENCLOSURE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO **REMAIN.**

DEMOLITION KEYNOTES

1. CLEAR THE EXISTING BRUSH, GRASS AND DEBRIS WITHIN THE PROJECT LIMITS OF CONSTRUCTION. ALL BRUSH, DEBRIS AND WASTE MATERIAL RESULTING FROM THE DEMOLITION AND CLEARING SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER BY THE CONTRACTOR.
2. REMOVE AND DISPOSE OF THE EXISTING P.C.C. SLAB AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
3. REMOVE AND DISPOSE OF EXISTING FENCE, POST AND POST FOOTINGS.
4. REMOVE AND DISPOSE OF TREES.
5. REMOVE AND DISPOSE OF EXISTING ABANDONED POLE AND ELECTRICAL CABLES.
6. CONTRACTOR SHALL PROTECT AND PRESERVE THE EXISTING MONUMENTS AS DIRECTED BY THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT AND THE MONUMENT PRESERVATION NOTE ON THIS PLAN.

THE SURFACE NATIVE MATERIAL ACROSS THE ENTIRE AREA *TO BE DEVELOPED* IS TO BE REMOVED AND STOCKPILED ON THE SITE *NOT TO BE DEVELOPED* TO ELEVATION 955.75. THE NATIVE EARTH AT THE BASE OF THE EXCAVATION IS TO BE SCARIFIED AND COMPACTED AT 90 PERCENT MAXIMUM DENSITY PER ASTM D-1557 AT 2 PERCENT OVER OPTIMUM WATER CONTENT TO A DEPTH OF 955.00. NATIVE EARTH IS TO BE MOVED FROM THE STOCKPILE AND PLACED IN MAXIMUM 9 INCH LIFTS ACROSS THE ENTIRE PROJECT SITE *TO BE DEVELOPED*. EACH 9 INCH LIFT SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D1557 AT 2 PERCENT OVER OPTIMUM WATER CONTENT. INSTALL NATIVE MATERIAL IN 9 INCH LIFTS TO AN ELEVATION OF 958.00 ACROSS THE PROJECT SITE. CONTROLLED FILL MATERIAL CONSISTING OF CLASS 2 BASE OR GRANULAR SAND SHALL BE PLACED ABOVE THE 958.00 ELEVATION. NATIVE BORROW MATERIAL CAN BE OBTAINED IN THE AREA *NOT TO BE DEVELOPED* AS NEEDED. THE BORROWED MATERIAL SHALL BE OBTAINED EVENLY ACROSS THE ENTIRE SITE *NOT TO BE DEVELOPED*. SEE THE EARTHWORK TECHNICAL SPECIFICATIONS FOR A DETAILED DESCRIPTION OF THE SITE EARTHWORK REQUIREMENTS.

POTHOLE NOTES

1. ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ON THE PLANS ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER AND SANITARY SEWER PIPELINES SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
2. IT WILL BE REQUIRED TO "POT-HOLE" THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE "POT-HOLING" ACTIVITIES WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 8-INCH SEWER AND WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLES, FIBER OPTIC, WATER, GAS, ELECTRICAL, COMMUNICATION, IRRIGATION AND SEWER UTILITIES. IT WILL BE REQUIRED TO POTHOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW 8-INCH SEWER AND WATER PIPELINES. THE CONSTRUCTION MANAGER WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER AND CONTRACTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE SEWER, WATER AND STORMWATER PIPELINE GRADES AS ILLUSTRATED ON THE DRAWINGS. THE CONTRACTOR WILL PREPARE HIS/HER PROPOSAL BASED ON THE ASSUMPTION THAT UNDERGROUND UTILITIES WILL NOT BE REQUIRED TO BE RELOCATED BY THE CONTRACTOR.
3. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER AWWA C-900 DR 18, PRESSURE CLASS 235 PVC WATER PIPELINE TO THE DESIGN GRADES AS ILLUSTRATED ON THE PLAN AND PROFILE IMPROVEMENT PLAN SHEETS.
4. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE TO THE DESIGN GRADES AS ILLUSTRATED ON THE PLAN AND PROFILE IMPROVEMENT PLAN SHEETS.
5. THE CONTRACTOR AND CONSTRUCTION MANAGER SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.

MONUMENT PRESERVATION NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SURVEY MONUMENTS, CORNER ACCESSORIES AND/OR BENCHMARKS WITHIN THE LIMITS OF WORK. IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT (CHAPTER 15 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE), SUCH OBJECTS WITHIN THE LIMITS OF WORK THAT MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REFERENCED BY A PERSON AUTHORIZED TO PRACTICE LAND SURVEYING AND A CORNER RECORD (OR RECORD OF SURVEY) SHOWING SAID REFERENCES SHALL BE FILED WITH THE COUNTY SURVEYOR PRIOR TO CONSTRUCTION. ANY MONUMENT, CORNER ACCESSORY, OR BENCHMARK THAT IS DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REPLACED WITH APPROPRIATE MONUMENTATION BY A PERSON AUTHORIZED TO PRACTICE LAND SURVEYING AND A CORNER RECORD (OR RECORD OF SURVEY) SHALL BE FILED PRIOR TO PROJECT COMPLETION. FORM MPR-01 AND FORM MPR-02 ARE REQUIRED FOR ALL IMPERIAL COUNTY PROJECTS.

NOTE:
THE TOTAL PROJECT SITE IS 2.47 ACRES

SCALE 1"= 20'

The Holt Group, Inc.
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NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
EXISTING / DEMOLITION SITE PLAN

C1.03 SHEET
3 OF 23 SHEETS
JOB NO. 542.088

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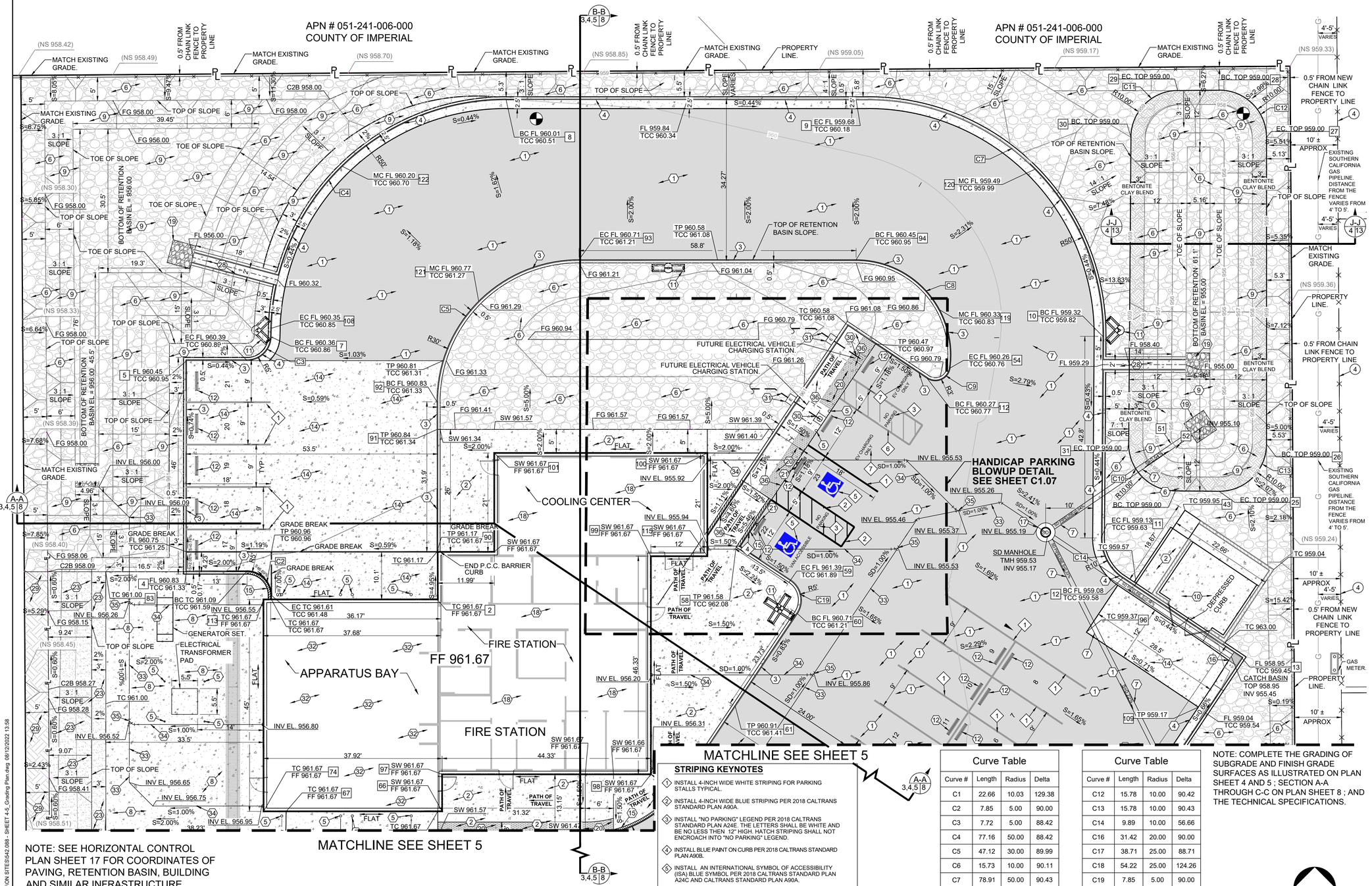

NOTE: SEE HORIZONTAL CONTROL PLAN SHEET 17 FOR COORDINATES OF PAVING, RETENTION BASIN, BUILDING AND SIMILAR INFRASTRUCTURE.

NOTE: COMPLETE THE GRADING OF SUBGRADE AND FINISH GRADE SURFACES AS ILLUSTRATED ON PLAN SHEET 4 AND 5 ; SECTION A-A THROUGH C-C ON PLAN SHEET 8 ; AND THE TECHNICAL SPECIFICATIONS.

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. ~~EXISTING COMMUNICATION ENCLOSURE TO REMAIN.~~
4. EXISTING FENCE TO REMAIN.
5. ~~EXISTING BUILDING TO REMAIN.~~
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.

CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 5-INCH P.C.C. SIDEWALK OVER 6-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE DETAIL A ON PLAN SHEET 9.
3. INSTALL P.C.C.BARRIER CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 401, SEE DETAIL B ON SHEET 9.
4. INSTALL 6-INCH CURB AND GUTTER OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE MODIFIED IMPERIAL STANDARD DETAIL 400. SEE DETAIL C ON SHEET 9.
5. INSTALL 4-INCH BOLLARDS PER DETAIL N ON SHEET 11.
6. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL 12-INCH AWWA C-900 DR18 PVC STORMWATER PIPELINE PER DETAIL DD ON PLAN SHEET 20.
8. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 8-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE 6X6- 6 GAUGE WELDED WIRE REINFORCING FABRIC WITHIN THE 6-INCH THICK P.C.C. CONCRETE 2" ABOVE THE BOTTOM OF THE SLAB.
9. CONSTRUCT STORMWATER RETENTION BASIN PER THE GRADES AND SLOPES ILLUSTRATED ON THE PLANS AND PER SECTIONS A-A TO C-C ON SHEET 8. A 12-INCH LAYER OF NATIVE CLAY MATERIAL BLEND WITH BENTONITE SHALL BE INSTALLED BENEATH THE CRUSHED ROCK MATERIAL IN RETENTION BASIN AREAS ABOVE THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE BLEND TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. NO BENTONITE CLAY BLEND REQUIRED FOR NORTHWEST RETENTION BASIN.
10. INSTALL TRASH ENCLOSURE PER DETAIL J ON SHEET 10.
11. INSTALL PARKING LIGHT. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
12. INSTALL BUMPER STOP PER DETAIL G ON SHEET 9.
13. INSTALL MONUMENT SIGN PER DETAIL V ON SHEET 13. PROVIDE ELECTRICAL CIRCUITRY AND DISCONNECT FOR SIGN PER ELECTRICAL PLAN SHEET E1.00.
14. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 12-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER EACH WAY.
15. INSTALL 0" TO 6" HIGH, 3-FOOT LONG (OR AS ILLUSTRATED ON THE IMPROVEMENT PLANS) CURB TRANSITION PER DETAIL W ON SHEET 13.
16. INSTALL 24-INCH X 24-INCH P.C.C. STORMWATER CATCH BASIN WITH GRATE PER DETAIL Y ON SHEET 14.
17. INSTALL STORMWATER MANHOLE PER DETAIL CC ON SHEET 20.
18. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557, PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
19. INSTALL 5 FEET WIDE BY 5 FEET LONG BY 1.5 FOOT DEEP MINIMUM SMALL ROCK (4-INCH) SLOPE PROTECTION PER SECTION 72-4 OF 2018 CALTRANS STANDARD SPECIFICATIONS. USE ROCK GRADATION FOR 7-INCH THICK LAYER. INSTALL RSP FABRIC TYPE "8" UNDERNEATH THE RSP PER SECTIONS 72 AND 96-1.02I OF 2018 CALTRANS STANDARD SPECIFICATIONS.
20. INSTALL FEDERAL YELLOW TRUNCATED DOMES PER CALTRANS STANDARD PLAN A88A.
21. INSTALL ADA R99C SIGN PER 2018 CALTRANS STANDARDS PLAN A90A. SIGN SHALL BE GREATER THAN OR EQUAL TO 70 SQUARE INCHES IN AREA. PLACE "VAN - ACCESSIBLE " SIGN PER 2018 CALTRANS STANDARDS PLAN A90A BENEATH THE ADA R99C SIGN.
22. INSTALL ADA R10DB SIGN PER 2018 CALTRANS STANDARD PLAN A90A. THE SIGN SHALL BE GREATER THAN OR EQUAL TO 70 X 22 WITH LETTERING NOT LESS THAN OR EQUAL TO 1" INCH HEIGHT.
23. INSTALL CLASS 2 BASE MATERIAL FROM THE TOP OF THE BACK OF CURB AT A 2 PERCENT SLOPE FOR A HORIZONTAL DISTANCE OF 3 FEET. THEN, EXTEND THE CLASS 2 BASE MATERIAL AT A 3 TO 1 MAXIMUM SLOPE TO THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
24. INSTALL 4-INCHES OF A.C. PAVEMENT OVER 12-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
25. COLD PLANE (GRIND) EXISTING A.C. PAVEMENT EDGE AS ILLUSTRATED BY THE CROSS HATCHED AREA FOR A DEPTH OF 0.12 FEET PER DETAIL H ON PLAN SHEET 9.
26. COMPLETE A.C. PAVEMENT INSTALLATION AT THE 6" SDR 26 PVC SANITARY SEWER LATERAL TRENCH PER DETAIL BB ON PLAN SHEET 20.
27. INSTALL P.C.C. HEADWALL PER DETAIL KK IN PLAN SHEET 21.
28. INSTALL 2-FOOT WIDE P.C.C. CURB SPILLWAY PER DETAIL LL ON PLAN SHEET 21.
29. INSTALL NATIVE MATERIAL FROM THE TOP OF THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00 TO THE DESIGN FINISH GRADE SHOWN ON THE GRADING IMPROVEMENT PLAN SHEETS COMPACTED THE NATIVE MATERIAL IN MAXIMUM 7-INCH LIFTS TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
30. EXTEND CONDUIT FROM NEW ELECTRICAL JUNCTION BOX TO FUTURE ELECTRICAL VEHICLE CHARGING STATION LOCATION.
31. INSTALL NEW ELECTRICAL JUNCTION BOX AND CONDUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING STATIONS PER THE CALIFORNIA GREEN BUILDING CODE SECTION 5.106.5.3.
32. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557, PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
33. INSTALL 6-INCH SDR 26 PVC STORMWATER HEADER PIPELINE WITH SDR 26 PVC ELBOWS AS REQUIRED. THE HEADER PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
34. INSTALL 4-INCH SDR 26 PVC STORMWATER PIPELINE AND REQUIRED SDR PVC ELBOWS FROM DOWNSPOUT TO HEADER PIPELINE. VERIFY PIPELINE DIAMETER SIZING WITH DEFEED SUBMITTAL. THE PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
35. INSTALL SDR 6" X 6" X 4" WYE FITTING AND ELBOW FITTINGS AS REQUIRED.
36. INSTALL P.C.C. HANDICAP RAMP PER CALTRANS STANDARD PLAN A88B, CASE CH, LATEST EDITION.

STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER 2018 CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER 2018 CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
7. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
8. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.

Curve Table

Curve #	Length	Radius	Delta
C1	22.66	10.03	129.38
C2	7.85	5.00	90.00
C3	7.72	5.00	88.42
C4	77.16	50.00	88.42
C5	47.12	30.00	89.99
C6	15.73	10.00	90.11
C7	78.91	50.00	90.43
C8	43.16	20.00	123.63
C9	6.06	3.00	115.76
C10	15.71	10.00	90.00
C11	15.56	10.00	89.16

Curve Table

Curve #	Length	Radius	Delta
C12	15.78	10.00	90.42
C13	15.78	10.00	90.43
C14	9.89	10.00	56.66
C16	31.42	20.00	90.00
C17	38.71	25.00	88.71
C18	54.22	25.00	124.26
C19	7.85	5.00	90.00
C20	24.54	25.00	56.24
C21	25.46	10.00	145.86
C22	31.65	20.17	89.93

SCALE 1"= 10'

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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

GRADING IMPROVEMENT PLAN

C1.04 SHEET 4 OF 23 SHEETS

JOB NO. 542.088

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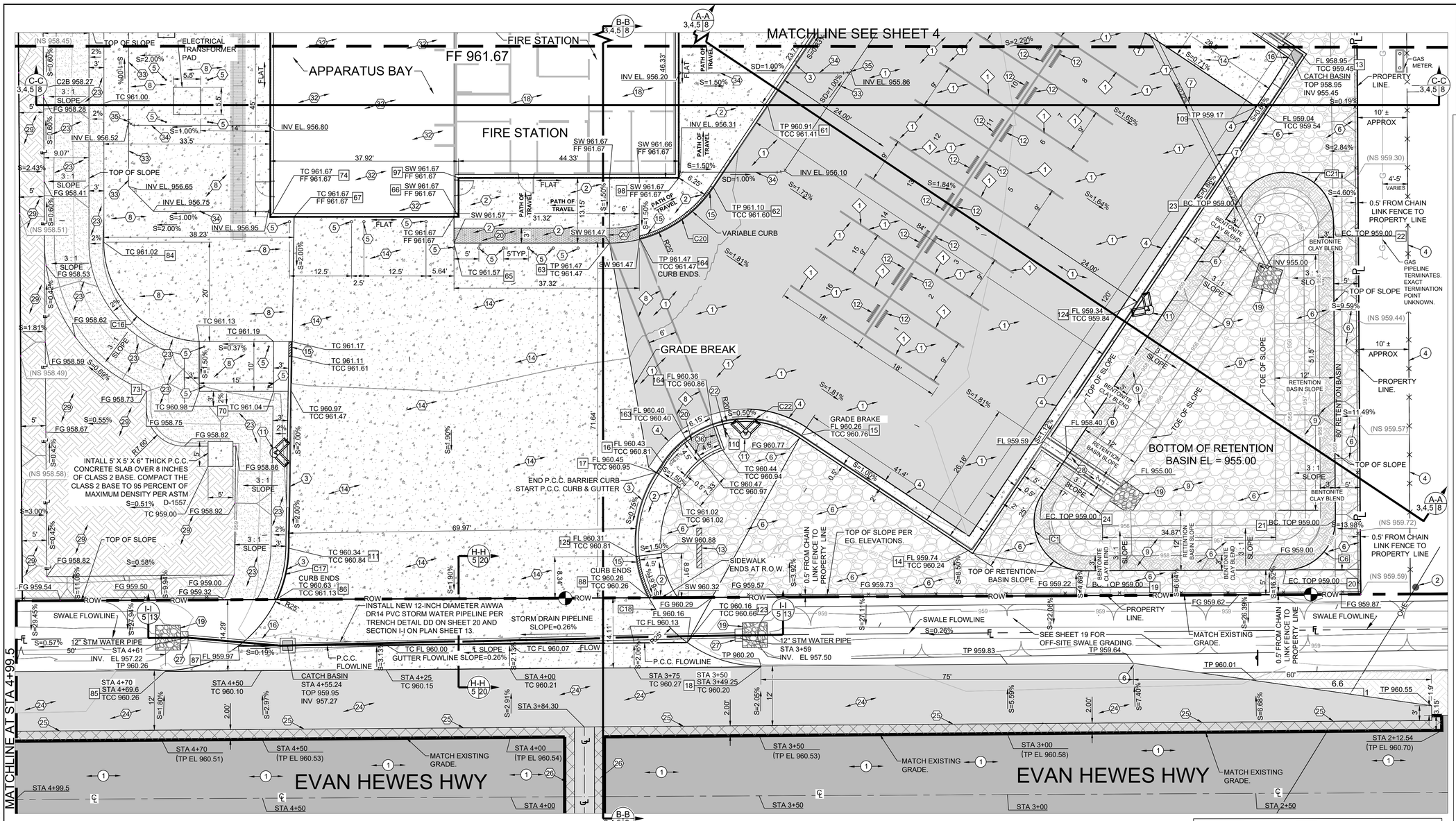

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. ~~EXISTING COMMUNICATION ENCLOSURE TO REMAIN.~~
4. EXISTING FENCE TO REMAIN.
5. ~~EXISTING BUILDING TO REMAIN.~~
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.
7. ~~EXISTING GAS MARKER TO REMAIN.~~

CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 5-INCH P.C.C. SIDEWALK OVER 6-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE DETAIL A ON PLAN SHEET 9.
3. INSTALL P.C.C BARRIER CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 401. SEE DETAIL B ON SHEET 9.
4. INSTALL 6-INCH CURB AND GUTTER OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE MODIFIED IMPERIAL STANDARD DETAIL 400. SEE DETAIL C ON SHEET 9.
5. INSTALL 4-INCH BOLLARDS PER DETAIL N ON SHEET 11.
6. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTERWEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL 12-INCH AWWA C-900 DR18 PVC STORMWATER PIPELINE PER DETAIL DD ON PLAN SHEET 20.
8. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 8-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE 6X6- 6 GAUGE WELDED WIRE REINFORCING FABRIC WITHIN THE 6-INCH THICK P.C.C. CONCRETE 2" ABOVE THE BOTTOM OF THE SLAB.
9. CONSTRUCT STORMWATER RETENTION BASIN PER THE GRADES AND SLOPES ILLUSTRATED ON THE PLANS AND PER SECTIONS AA TO C-C ON SHEET 8. A 12-INCH LAYER OF NATIVE CLAY MATERIAL BLEND WITH BENTONITE SHALL BE INSTALLED BENEATH THE CRUSHED ROCK MATERIAL IN RETENTION BASIN AREAS ABOVE THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE BLEND TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. NO BENTONITE CLAY BLEND REQUIRED FOR NORTHWEST RETENTION BASIN.
10. INSTALL TRASH ENCLOSURE PER DETAIL J ON SHEET 10.
11. INSTALL PARKING LIGHT. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
12. INSTALL BUMPER STOP PER DETAIL G ON SHEET 9.
13. INSTALL MONUMENT SIGN PER DETAIL V ON SHEET 13. PROVIDE ELECTRICAL CIRCUITRY AND DISCONNECT FOR SIGN PER ELECTRICAL PLAN SHEET E1.00.
14. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 12-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER EACH WAY.
15. INSTALL 0" TO 6" HIGH, 3-FOOT LONG (OR AS ILLUSTRATED ON THE IMPROVEMENT PLANS) CURB TRANSITION PER DETAIL W ON SHEET 13.
16. INSTALL 24-INCH X 24-INCH P.C.C. STORMWATER CATCH BASIN WITH GRATE PER DETAIL Y ON SHEET 14.
17. INSTALL STORMWATER MANHOLE PER DETAIL CC ON SHEET 20.
18. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
19. INSTALL 5 FEET WIDE BY 5 FEET LONG BY 1.5 FOOT DEEP MINIMUM SMALL ROCK (4-INCH) SLOPE PROTECTION PER SECTION 72-4 OF 2018 CALTRANS STANDARD SPECIFICATIONS. USE ROCK GRADATION FOR 7-INCH THICK LAYER. INSTALL RSP FABRIC TYPE "8" UNDERNEATH THE RSP PER SECTIONS 72 AND 96-1.02I OF 2018 CALTRANS STANDARD SPECIFICATIONS
20. INSTALL FEDERAL YELLOW TRUNCATED DOMES PER CALTRANS STANDARD PLAN A88A.
21. INSTALL ADA R99C SIGN PER 2018 CALTRANS STANDARDS PLAN A90A. SIGN SHALL BE GREATER THAN OR EQUAL TO 70 SQUARE INCHES IN AREA IN ACE "VAN - ACCESSIBLE" SIGN PER 2018 CALTRANS STANDARDS PLAN A90A BENEATH THE ADA R99C SIGN.
22. INSTALL ADA R100B SIGN PER 2018 CALTRANS STANDARD PLAN A90A. THE SIGN SHALL BE GREATER THEN OR EQUAL TO 70 X 22 WITH LETTERING NOT LESS THAN OR EQUAL TO 1" INCH HEIGHT.
23. INSTALL CLASS 2 BASE MATERIAL FROM THE TOP OF THE BACK OF CURB AT A 2 PERCENT SLOPE FOR A HORIZONTAL DISTANCE OF 3 FEET, THEN, EXTEND THE CLASS 2 BASE MATERIAL AT A 3 TO 1 MAXIMUM SLOPE TO THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
24. INSTALL 4-INCHES OF A.C. PAVEMENT OVER 12-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
25. COLD PLANE (GRIND) EXISTING A.C. PAVEMENT EDGE AS ILLUSTRATED BY THE CROSS HATCHED AREA FOR A DEPTH OF 0.12 FEET PER DETAIL H ON PLAN SHEET 9.
26. COMPLETE A.C. PAVEMENT INSTALLATION AT THE 6" SDR 26 PVC SANITARY SEWER LATERAL TRENCH PER DETAIL BB ON PLAN SHEET 20.
27. INSTALL P.C.C. HEADWALL PER DETAIL KK IN PLAN SHEET 21.
28. INSTALL 2-FOOT WIDE P.C.C. CURB SPILLWAY PER DETAIL LL ON PLAN SHEET 21.
29. INSTALL NATIVE MATERIAL FROM THE TOP OF THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00 TO THE DESIGN FINISH GRADE SHOWN ON THE GRADING IMPROVEMENT PLAN SHEETS COMPACTED THE NATIVE MATERIAL IN MAXIMUM 7-INCH LIFTS TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
30. EXTEND CONDUIT FROM NEW ELECTRICAL JUNCTION BOX TO FUTURE ELECTRICAL VEHICLE CHARGING STATION LOCATION.
31. INSTALL NEW ELECTRICAL JUNCTION BOX AND CONDUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING STATIONS PER THE CALIFORNIA GREEN BUILDING CODE SECTION 5.106.5.3.
32. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
33. INSTALL 6-INCH SDR 26 PVC STORMWATER HEADER PIPELINE WITH SDR 26 PVC ELBOWS AS REQUIRED. THE HEADER PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
34. INSTALL 4-INCH SDR 26 PVC STORMWATER PIPELINE AND REQUIRED SDR PVC ELBOWS FROM DOWNSPOUT TO HEADER PIPELINE.VERIFY PIPELINE DIAMETER SIZING WITH DEFEED SUBMITTAL. THE PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
35. INSTALL SDR 6" X 6" X 4" WYE FITTING AND ELBOW FITTINGS AS REQUIRED.
36. INSTALL P.C.C. HANDICAP RAMP PER CALTRANS STANDARD PLAN A88B, CASE CH, LATEST EDITION.

NOTE: SEE HORIZONTAL CONTROL PLAN SHEET 16 FOR COORDINATES OF PAVING, RETENTION BASIN, BUILDING AND SIMILAR INFRASTRUCTURE.

Curve Table

Curve #	Length	Radius	Delta
C1	22.66	10.03	129.38
C2	7.85	5.00	90.00
C3	7.72	5.00	88.42
C4	77.16	50.00	88.42
C5	47.12	30.00	89.99
C6	15.73	10.00	90.11
C7	78.91	50.00	90.43
C8	43.16	20.00	123.63
C9	6.06	3.00	115.76
C10	15.71	10.00	90.00
C11	15.56	10.00	89.16

Curve Table

Curve #	Length	Radius	Delta
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C17	38.71	25.00	88.71
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C20	24.54	25.00	56.24
C21	25.46	10.00	145.86
C22	31.65	20.17	89.93

STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER 2018 CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER 2018 CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
7. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
8. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.

NOTE: COMPLETE THE GRADING OF SUBGRADE AND FINISH GRADE SURFACES AS ILLUSTRATED ON PLAN SHEET 4 AND 5 ; SECTION A-A THROUGH C-C ON PLAN SHEET 8 ; AND THE TECHNICAL SPECIFICATIONS.

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SCALE 1"= 10'

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NO.	REVISIONS:	APPROVED	DATE

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

GRADING IMPROVEMENT PLAN

C1.05 SHEET 5 OF 23 SHEETS

JOB NO. 542.088

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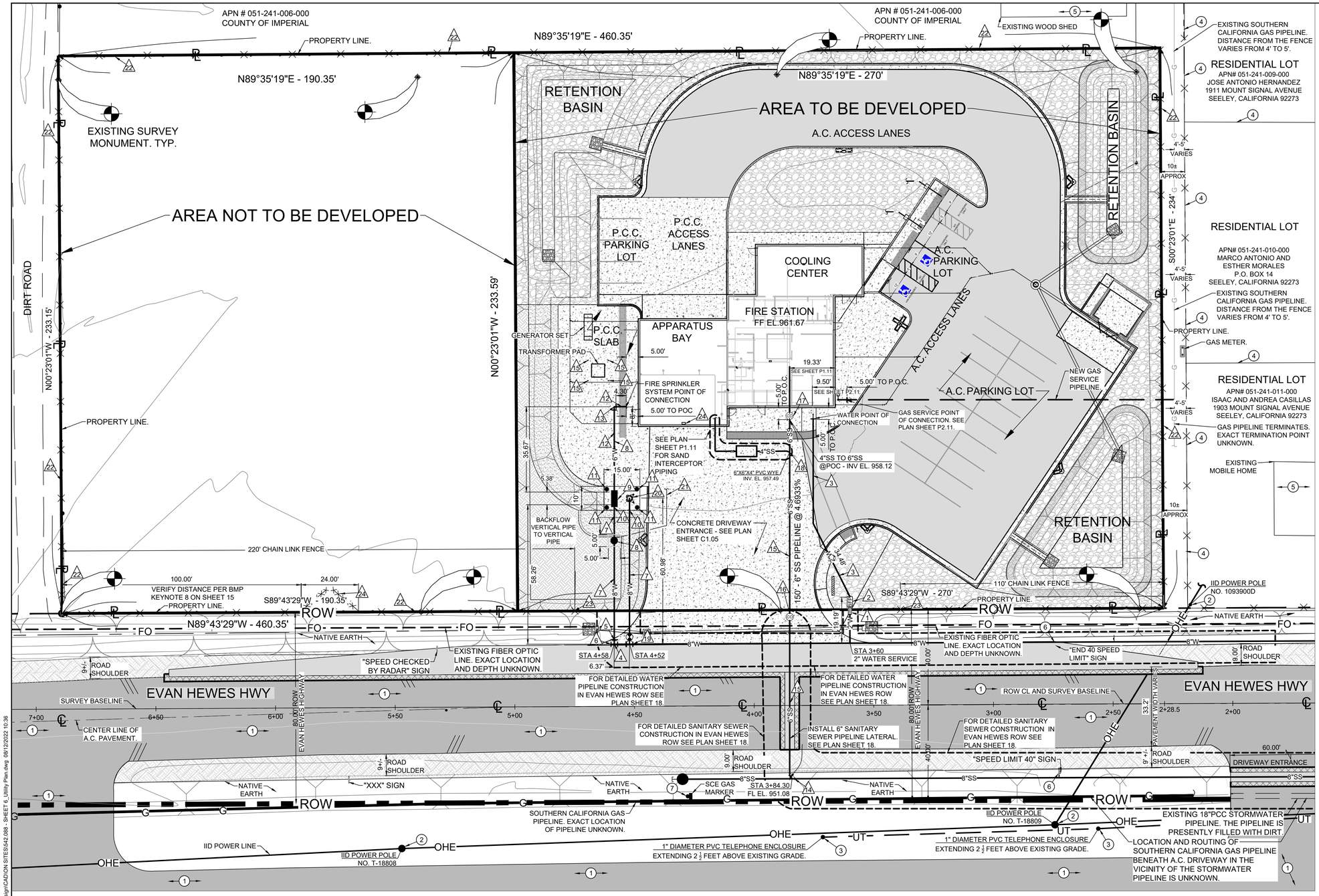

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING COMMUNICATION ENCLOSURE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.

UTILITY CONSTRUCTION KEYNOTES

1. INSTALL 2 INCH WATER SERVICE CONNECTION INCLUDING 2 INCH WATER METER FROM THE NEW 8 INCH WATER MAIN TO THE 2 INCH BACKFLOW PREVENTOR DOWNSTREAM OF THE 2 INCH WATER METER ENCLOSURE. INSTALL THE NEW WATER SERVICE CONNECTION PER DETAIL M ON PLAN SHEET 11.
2. INSTALL 2 INCH BACKFLOW PREVENTOR PER DETAIL L ON PLAN SHEET 11.
3. INSTALL 2 INCH WATER PIPELINE FROM THE BACKFLOW PREVENTER TO THE POINT OF CONNECTION (POC) 5 FEET FROM THE EXTERIOR WALL LINE OF THE FIRE STATION AND COOLING CENTER BUILDING. INSTALL THE 2 INCH WATER PIPELINE PER DETAIL M ON PLAN SHEET 11.
4. INSTALL 8 INCH X 8 INCH X 8 INCH FLANGED DUCTILE IRON TEE FOR FIRE SERVICE PIPELINE.
5. INSTALL 8 INCH DUCTILE IRON FLANGED COUPLING ADAPTERS AND DUCTILE IRON RESTRAINED JOINT FITTINGS ON THE NORTH AND EAST SIDE OF THE DUCTILE IRON TEE.
6. INSTALL 8 INCH DUCTILE IRON BLIND FLANGE.
7. INSTALL 8 INCH AWWA C-900 DR-18 PVC FIRE SPRINKLER SERVICE PIPELINE AND FIRE HYDRANT PIPELINE PER TRENCH DETAIL E ON PLAN SHEET 9.
8. INSTALL POST INDICATOR VALVE PER DETAIL S ON SHEET 11.
9. INSTALL 6 INCH FIRE SPRINKLER SERVICE LINE BACKFLOW PREVENTOR WITH FDC PER DETAIL K ON PLAN SHEET 11.
10. INSTALL 6 INCH X 8 INCH DUCTILE IRON REDUCER IMMEDIATELY UPSTREAM OF THE FIRE SERVICE LINE BACKFLOW PREVENTOR.
11. INSTALL 4-INCH DIAMETER STEEL BOLLARDS PER DETAIL O ON SHEET 11.
12. INSTALL 6 INCH AWWA C-900 DR18 PVC FIRE SPRINKLER SERVICE PIPELINE PER DETAIL D ON PLAN SHEET 9.
13. INSTALL 6 INCH DUCTILE IRON MECHANICAL JOINT 90 DEGREE ELBOW WITH 6 INCH DUCTILE IRON RESTRAINED JOINT FITTINGS ON THE UPSTREAM AND DOWNSTREAM SIDES OF THE 90 DEGREE ELBOW. INSTALL TWO (2) 6 INCH DUCTILE IRON RESTRAINED JOINT FITTINGS.
14. INSTALL A NEW 8 INCH X 8 INCH X 6 INCH SDR 26 PVC WYE FITTING ALONG THE NEW 8 INCH SDR 26 PVC SANITARY SEWER PIPELINE TO SERVICE THE FIRE STATION AND COOLING CENTER BUILDING.
15. INSTALL A NEW 6 INCH SDR 26 PVC SANITARY SEWER LATERAL PIPELINE AT A 4.693 PERCENT SLOPE FROM THE NEW 8 INCH SANITARY SEWER PIPELINE TO THE POINT OF CONNECTION (POC) LOCATED 5 FOOT OUTSIDE OF THE FIRE STATION AND COOLING CENTER BUILDING WALL LINE. SEE PLAN SHEET 18 FOR THE PIPELINE INSTALLATION IN EVAN HEWES RIGHT OF WAY. INSTALL THE PIPELINE WITHIN THE PROJECT BOUNDARY PER DETAIL I ON PLAN SHEET 9.
16. INSTALL 6 INCH CLEANOUT AT THE RIGHT OF WAY/PROPERTY LINE PER DETAIL R ON PLAN SHEET 11.
17. INSTALL SANITARY SEWER LATERAL DOUBLE CLEANOUT PER DETAIL P ON PLAN SHEET 11.
18. INSTALL 6 INCH X 6 INCH X 4 INCH SDR 26 PVC WYE FITTING FOR CONNECTION TO 4 INCH PVC INTERCEPTOR PIPELINE.
19. INSTALL 8 INCH X 8 INCH X 8 INCH DUCTILE IRON FLANGED TEE AND 8 INCH RESILIENT WEDGE GATE VALVE PER PLAN DETAIL N ON SHEET 11. INSTALL A TOTAL OF THREE (3) DUCTILE IRON RESTRAINED JOINT FITTINGS ON THE EAST AND WEST SIDE OF THE TEE AND NORTH OF THE RESILIENT WEDGE GATE VALVE. INSTALL THREE (3) DUCTILE IRON FLANGED COUPLING ADAPTERS.
20. INSTALL 6 INCH COMMERCIAL FIRE HYDRANT ASSEMBLY PER DETAIL T ON PLAN SHEET 11. INSTALL 6 INCH X 8 INCH DUCTILE IRON REDUCER IMMEDIATELY UPSTREAM OF THE DUCTILE IRON FIRE HYDRANT BURY.
21. INSTALL 3/4-INCH PVC CONDUIT AND CONDUCTORS TO FIRE ALARM CONTROL PANEL.
22. INSTALL NEW CHAIN LINK FENCE PER DETAIL U ON SHEET 12.
23. END OF NEW CHAIN LINK FENCE.
24. INSTALL NEW FIRE TRUCK SIGN FLASHING BEACON TRANSMITTER AND PUSH BUTTON SWITCH ENCLOSURE TO ACTIVE NEW FIRE TRUCK SIGNS ALONG EVAN HEWES HIGHWAY AS ILLUSTRATED ON PLAN SHEET 23. A 120 VOLT, 1 PHASE RECEPTACLE IS ILLUSTRATED TO BE PLACED AT THE TRANSMITTER AND PUSH BUTTON ENCLOSURE LOCATION TO POWER THE TRANSMITTER. THE TRANSMITTER SHALL BE DELIVERED WITH A CORD TO EXTENDED BETWEEN THE TRANSMITTER AND AN ANTENNA TO BE MOUNTED ALONG THE SOUTH WALL OF THE APPARATUS BAY ABOVE THE TRANSMITTER.THE FIRE TRUCK FIRE TRUCK SIGN FLASHING BEACON, ANCILLARY SIGNS BELOW THE FIRE TRUCK SIGN, SIGN POST, TRANSMITTER , PUSH BUTTON SWITCH ENCLOSURE, POWER CORD, AND ANTENNA ARE TO BE SUPPLIED BY THE SAME MANUFACTURE / SUPPLIER. SEE THE SPECIFICATIONS.

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SCALE 1"= 20'

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(760) 922-4658

NO.	REVISIONS:	APPROVED	DATE

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DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

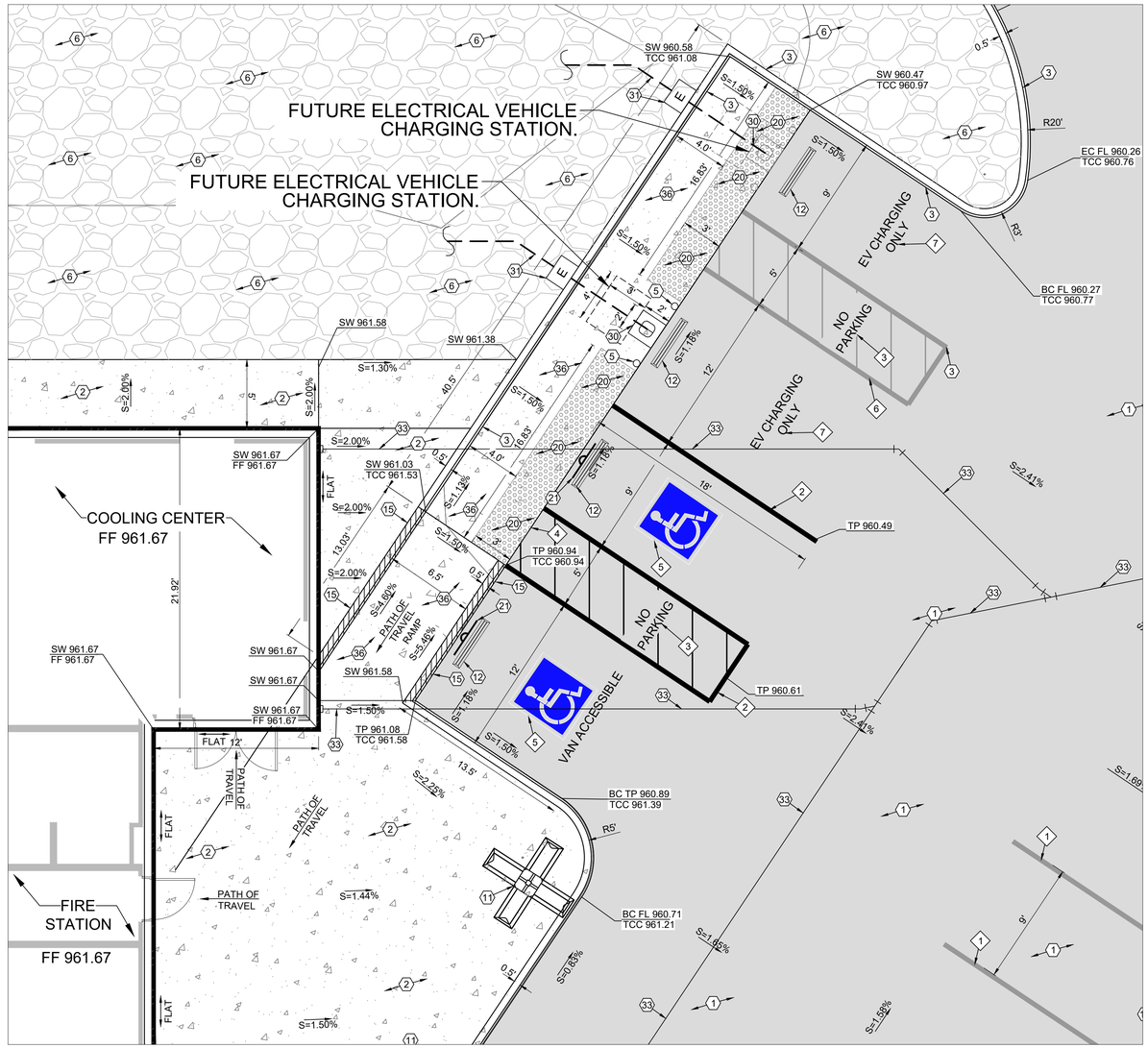
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

FENCING AND UTILITY PLAN

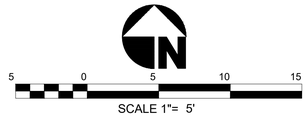
C1.06 SHEET 6 OF 23 SHEETS

JOB NO. 542.088



HANDICAP PARKING LOT BLOW-UP DETAIL

SCALE: 1" = 5'



CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 5-INCH P.C.C. SIDEWALK OVER 6-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE DETAIL A ON PLAN SHEET 9.
3. INSTALL P.C.C.BARRIER CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 401, SEE DETAIL B ON SHEET 9.
4. INSTALL 6-INCH CURB AND GUTTER OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE MODIFIED IMPERIAL STANDARD DETAIL 400. SEE DETAIL C ON SHEET 9.
5. ~~INSTALL 4-INCH BOLLARDS PER DETAIL N ON SHEET 11.~~
6. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
7. ~~INSTALL 12-INCH AWWA C-900 DR18 PVC STORMWATER PIPELINE PER DETAIL DD ON PLAN SHEET 20.~~
8. ~~INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 8-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE 6X6- 6 GAUGE WELDED WIRE REINFORCING FABRIC WITHIN THE 6-INCH THICK P.C.C. CONCRETE 2" ABOVE THE BOTTOM OF THE SLAB.~~
9. CONSTRUCT STORMWATER RETENTION BASIN PER THE GRADES AND SLOPES ILLUSTRATED ON THE PLANS AND PER SECTIONS ~~A-A~~ TO ~~C-C~~ ON SHEET 8. A 12-INCH LAYER OF NATIVE CLAY MATERIAL BLEND WITH BENTONITE SHALL BE INSTALLED BENEATH THE CRUSHED ROCK MATERIAL IN RETENTION BASIN AREAS ABOVE THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE BLEND TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. NO BENTONITE CLAY BLEND REQUIRED FOR NORTHWEST RETENTION BASIN.
10. ~~INSTALL TRASH ENCLOSURE PER DETAIL J ON SHEET 10.~~
11. INSTALL PARKING LIGHT. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
12. INSTALL BUMPER STOP PER DETAIL G ON SHEET 9.
13. ~~INSTALL MONUMENT SIGN PER DETAIL V ON SHEET 13. PROVIDE ELECTRICAL CIRCUITRY AND DISCONNECT FOR SIGN PER ELECTRICAL PLAN SHEET E1.00.~~
14. ~~INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 12-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER~~ EACH WAY.
15. INSTALL 0" TO 6" HIGH, 3-FOOT LONG (OR AS ILLUSTRATED ON THE IMPROVEMENT PLANS) CURB TRANSITION PER DETAIL W ON SHEET 13.
16. ~~INSTALL 24-INCH X 24-INCH P.C.C. STORMWATER CATCH BASIN WITH GRATE PER DETAIL Y ON SHEET 14.~~
17. ~~INSTALL~~ STORMWATER MANHOLE PER DETAIL ~~CC ON SH~~EET 20.
18. ~~INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.~~
19. ~~INSTALL 5 FEET WIDE BY 5 FEET LONG BY 1.5 FOOT DEEP MINIMUM SMALL ROCK (4-INCH) SLOPE PROTECTION PER SECTION 72-4 OF 2018 CALTRANS STANDARD SPECIFICATIONS. USE ROCK GRADATION FOR 7-INCH THICK LAYER. INSTALL RSP FABRIC TYPE "S" UNDERNEATH THE RSP PER SECTIONS 72 AND 96-1.02I OF 2018 CALTRANS STANDARD SPECIFICATIONS.~~
20. INSTALL FEDERAL YELLOW TRUNCATED DOMES PER CALTRANS STANDARD PLAN A88A.
21. INSTALL ADA R99C SIGN PER 2018 CALTRANS STANDARDS PLAN A90A. SIGN SHALL BE GREATER THAN OR EQUAL TO 70 SQUARE INCHES IN AREA. PLACE "VAN - ACCESSIBLE " SIGN PER 2018 CALTRANS STANDARDS PLAN A90A BENEATH THE ADA R99C SIGN.
22. INSTALL ADA R100B SIGN PER 2018 CALTRANS STANDARD PLAN A90A. THE SIGN SHALL BE GREATER THEN OR EQUAL TO 70' X 22' WITH LETTERING NOT LESS THAN OR EQUAL TO 1" INCH HEIGHT.
23. ~~INSTALL CLASS 2 BASE MATERIAL FROM THE TOP OF THE BACK OF CURB AT A 2 PERCENT SLOPE FOR A HORIZONTAL DISTANCE OF 3 FEET, THEN, EXTEND THE CLASS 2 BASE MATERIAL AT A 3 TO 1 MAXIMUM SLOPE TO THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.~~
24. ~~INSTALL 4-INCHES OF A.C. PAVEMENT OVER 12-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.~~
25. ~~COLD PLANE (GRIND) EXISTING A.C. PAVEMENT EDGE AS ILLUSTRATED BY THE CROSS HATCHED AREA FOR A DEPTH OF 0.12 FEET PER DETAIL H ON PLAN SHEET 9.~~
26. ~~COMPLETE A.C. PAVEMENT INSTALLATION AT THE 6" SDR 26 PVC SANITARY SEWER LATERAL TRENCH PER DETAIL BB ON PLAN SHEET 20.~~
27. ~~INSTALL P.C.C. HEADWALL PER DETAIL KK IN PLAN SHEET 21.~~
28. ~~INSTALL 2-FOOT WIDE P.C.C. CURB SPILLWAY PER DETAIL LL ON PLAN SHEET 21.~~
29. ~~INSTALL NATIVE MATERIAL FROM THE TOP OF THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00 TO THE DESIGN FINISH GRADE SHOWN ON THE GRADING IMPROVEMENT PLAN SHEETS. COMPACTED THE NATIVE MATERIAL IN MAXIMUM 7-INCH LIFTS TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.~~
30. EXTEND CONDUIT FROM NEW ELECTRICAL JUNCTION BOX TO FUTURE ELECTRICAL VEHICLE CHARGING STATION LOCATION.
31. INSTALL NEW ELECTRICAL JUNCTION BOX AND CONDUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING STATIONS PER THE CALIFORNIA GREEN BUILDING CODE SECTION 5.106.5.3.
32. ~~INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.~~
33. INSTALL 6-INCH SDR 26 PVC STORMWATER HEADER PIPELINE WITH SDR 26 PVC ELBOWS AS REQUIRED. THE HEADER PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
34. INSTALL 4-INCH SDR 26 PVC STORMWATER PIPELINE AND REQUIRED SDR PVC ELBOWS FROM DOWNSPOUT TO HEADER PIPELINE VERIFY PIPELINE DIAMETER SIZING WITH DEFEED SUBMITTAL. THE PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
35. INSTALL SDR 6" X 6" X 4" WYE FITTING AND ELBOW FITTINGS AS REQUIRED.
36. INSTALL P.C.C. HANDICAP RAMP PER CALTRANS STANDARD PLAN A88B, CASE CH, LATEST EDITION.

STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER 2018 CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER 2018 CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
7. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
8. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.

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JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
HANDICAP PARKING LOT BLOW-UP DETAIL

C1.07 SHEET
7 OF 23 SHEETS
JOB NO. 542.088

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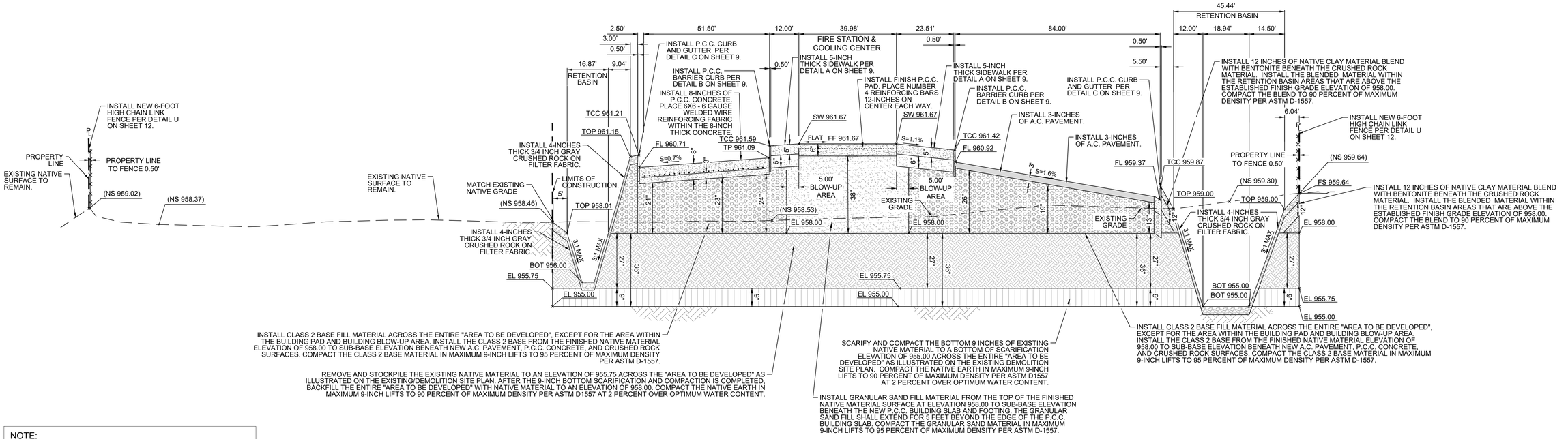


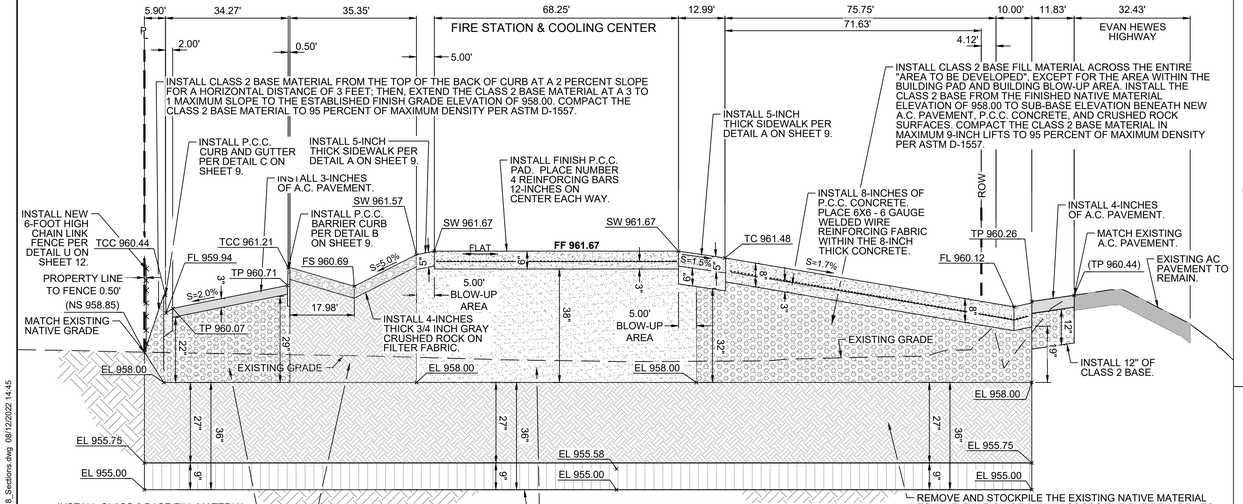
NOTE:

ADDITIONAL NATIVE MATERIAL, GRANULAR SAND OR CLASS 2 BASE BACKFILL LIFTS SHALL NOT BE PLACED UNTIL PREVIOUS LIFTS HAVE BEEN SATISFACTORILY COMPACTED AND APPROVED BY THE CONSTRUCTION MANAGER AND GEOTECHNICAL ENGINEER.

GRADING AND FINISH SURFACE SECTION A-A

3,4,5 | 8

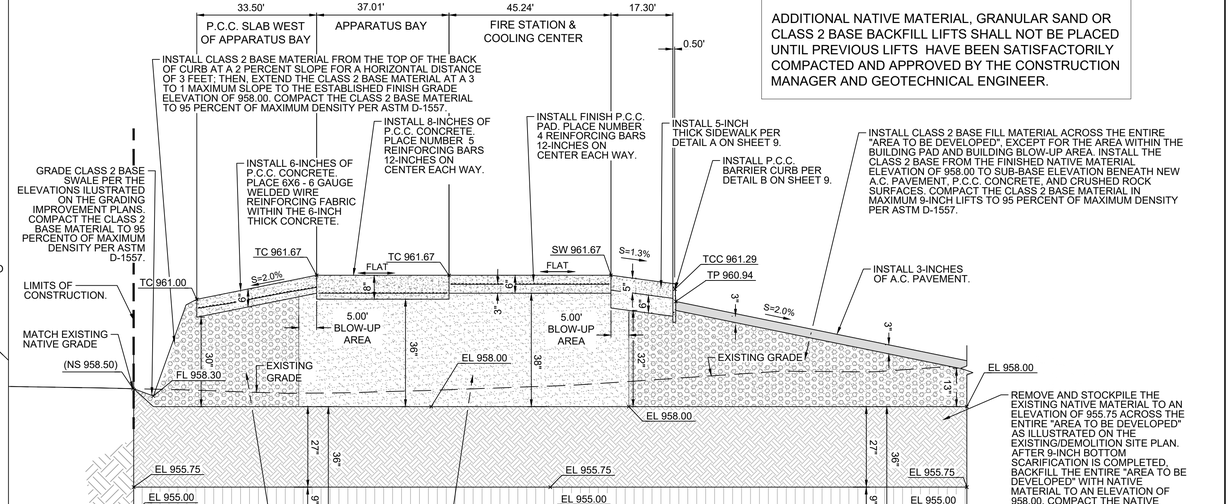
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"



GRADING AND FINISH SURFACE SECTION B-B

3,4,5 | 8

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"



NOTE:

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GRADING AND FINISH SURFACE SECTION C-C

3,5 | 8

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"

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SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

GRADING AND FINISH SURFACE SECTIONS

C1.08 SHEET 8 OF 23 SHEETS

JOB NO. 542.088

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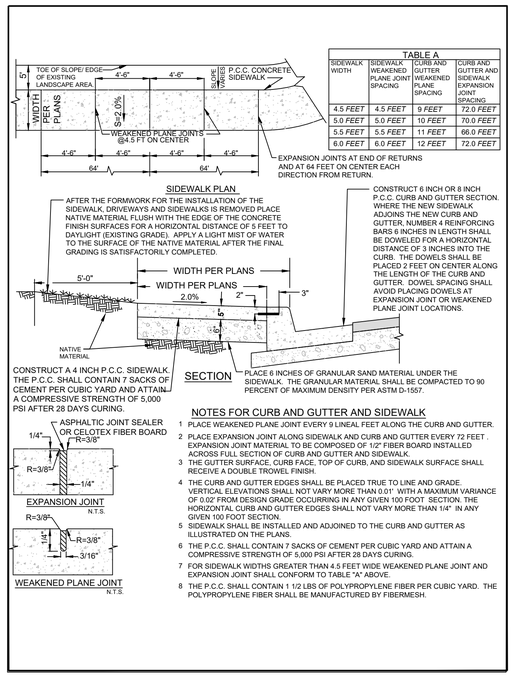


TABLE A

SIDEWALK WIDTH	SIDEWALK WEAKENED PLANE JOINT SPACING	CURB AND GUTTER WEAKENED PLANE SPACING	CURB AND GUTTER AND SIDEWALK EXPANSION JOINT SPACING
4.5 *FEET*	4.5 *FEET*	9 *FEET*	72.0 *FEET*
5.0 *FEET*	5.0 *FEET*	10 *FEET*	70.0 *FEET*
5.5 *FEET*	5.5 *FEET*	11 *FEET*	66.0 *FEET*
6.0 *FEET*	6.0 *FEET*	12 *FEET*	72.0 *FEET*

SIDEWALK PLAN

AFTER THE FORMWORK FOR THE INSTALLATION OF THE SIDEWALK, DRIVEWAYS AND SIDEWALKS IS REMOVED PLACE NATIVE MATERIAL FLUSH WITH THE EDGE OF THE CONCRETE FINISH SURFACES FOR A HORIZONTAL DISTANCE OF 5 FEET TO DAYLIGHT (EXISTING GRADE). APPLY A LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER THE FINAL GRADING IS SATISFACTORILY COMPLETED.

CONSTRUCT 6 INCH OR 8 INCH P.C.C. CURB AND GUTTER SECTION. WHERE THE NEW SIDEWALK ADJOINS THE NEW CURB AND GUTTER, NUMBER 4 REINFORCING BARS 6 INCHES IN LENGTH SHALL BE DOWELED FOR A HORIZONTAL DISTANCE OF 3 INCHES INTO THE CURB. THE DOWELS SHALL BE PLACED 2 FEET ON CENTER ALONG THE LENGTH OF THE CURB AND GUTTER. DOWEL SPACING SHALL AVOID PLACING DOWELS AT EXPANSION JOINT OR WEAKENED PLANE JOINT LOCATIONS.

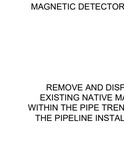
CONSTRUCT A 4 INCH P.C.C. SIDEWALK. THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.

SECTION

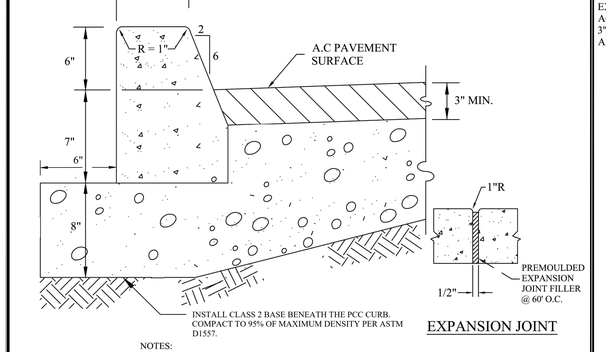
PLACE 6 INCHES OF GRANULAR SAND MATERIAL UNDER THE SIDEWALK. THE GRANULAR MATERIAL SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.

NOTES FOR CURB AND GUTTER AND SIDEWALK

1. PLACE WEAKENED PLANE JOINT EVERY 9 LINEAL FEET ALONG THE CURB AND GUTTER.
2. PLACE EXPANSION JOINT ALONG SIDEWALK AND CURB AND GUTTER EVERY 72 FEET . EXPANSION JOINT MATERIAL TO BE COMPOSED OF 1/2" FIBER BOARD INSTALLED ACROSS FULL SECTION OF CURB AND GUTTER AND SIDEWALK.
3. THE GUTTER SURFACE, CURB FACE, TOP OF CURB, AND SIDEWALK SURFACE SHALL RECEIVE A DOUBLE TROWEL FINISH.
4. THE CURB AND GUTTER EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN 0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FOOT SECTION. THE HORIZONTAL CURB AND GUTTER EDGES SHALL NOT VARY MORE THAN 1/4" IN ANY GIVEN 100 FOOT SECTION.
5. SIDEWALK SHALL BE INSTALLED AND ADJOINED TO THE CURB AND GUTTER AS ILLUSTRATED ON THE PLANS.
6. THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
7. FOR SIDEWALK WIDTHS GREATER THAN 4.5 FEET WIDE WEAKENED PLANE JOINT AND EXPANSION JOINT SHALL CONFORM TO TABLE "A" ABOVE.
8. THE P.C.C. SHALL CONTAIN 1 1/2 LBS OF POLYPROPYLENE FIBER PER CUBIC YARD. THE POLYPROPYLENE FIBER SHALL BE MANUFACTURED BY FIBERMESH.



SIDEWALK DETAIL
(COI STANDARD DETAIL 420) NTS — A — 4,5,8 | 9

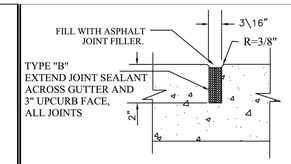


NOT TO SCALE

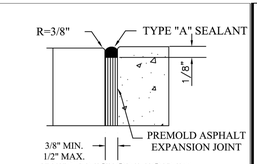
EXPANSION JOINT

NOTES:
1. BARRIER CURB SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E.
2. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICATED.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10-FOOT INTERVALS, EXCEPT THAT THE INTERVAL SHALL BE VARIED TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS.
4. CURING COMPOUND SHALL BE CURE-TREAT (CONCRETE CONDITIONER AND CURING AID) AS MANUFACTURED BY W.R. MEADOWS INC OR APPROVED EQUAL. COMPOUND SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMENDATION.
5. WHEN BARRIER CURB IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAWCUT.
6. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
7. ALL EXPOSED SURFACES TO HAVE A SMOOTH TROWEL FINISH. DRY SACK FINISH WILL NOT BE ALLOWED.
8. THE CURB EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN +0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FEET SECTION. THE HORIZONTAL CURB EDGES SHALL NOT VARY MORE THAN 1/4" INCH IN ANY GIVEN 100 FOOT SECTION.

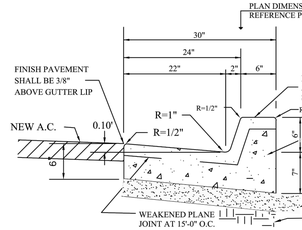
BARRIER CURB DETAIL
(COI STANDARD DETAIL 401) NTS — B — 4,5,8,10 | 9



WEAKENED PLANE JOINT
AT 15'-0" O.C. (TYP.)



EXPANSION JOINT
AT 45'-0" O.C. (TYP.)

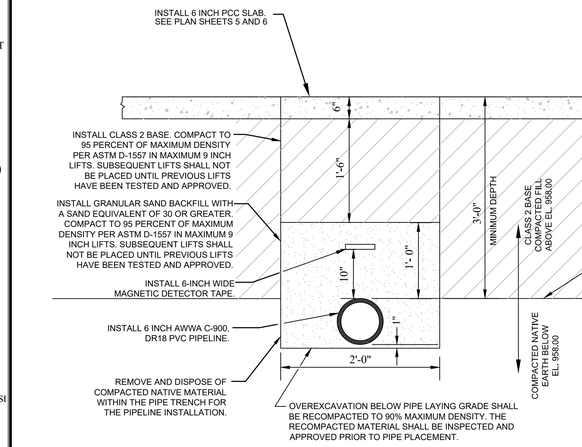


NOT TO SCALE

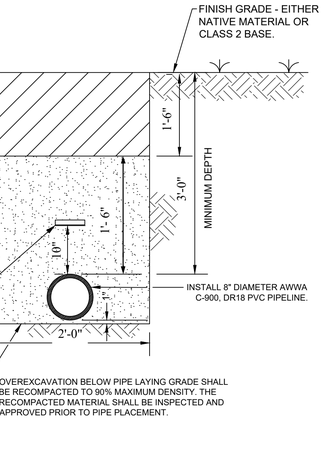
CURB AND GUTTER SECTION

NOTES
1. EXPANSION JOINTS TO BE INSTALLED AT ALL B.C.'S, E.C.'S CURB RETURNS AND STRUCTURES IN ADDITION TO 45' O.C.
2. CURB AND GUTTER SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E
3. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICTAED.
4. CURING COMPOUND SHALL BE SPRAYED UNIFORMLY ON EXPOSED SURFACES. HYDRO-CURE CLEAR CC-309-1W, OR APPROVED EQUAL.
5. WHEN CURB AND GUTTER IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAWCUT.
6. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
7. ALL EXPOSED SURFACES TO HAVE A SMOOTH TROWEL FINISH. DRY SACK FINISH WILL NOT BE ALLOWED.
8. THE CURB EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN +0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FEET SECTION. THE HORIZONTAL CURB EDGES SHALL NOT VARY MORE THAN 1/4" INCH IN ANY GIVEN 100 FOOT SECTION.

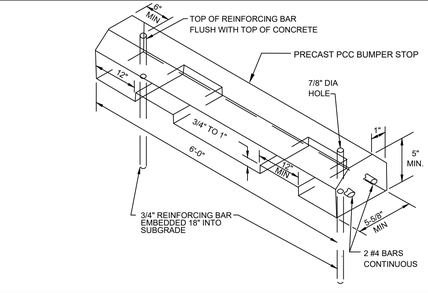
MODIFIED CURB AND GUTTER DETAIL
(COI STANDARD DETAIL 400) NTS — C — 4,5,8 | 9



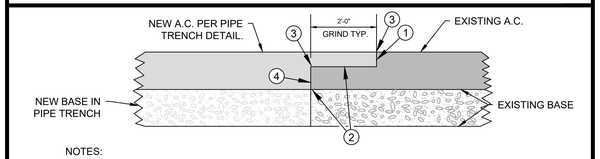
DOMESTIC WATER TRENCH DETAIL
NTS — D — 6 | 9



FIRE SPRINKLER SERVICE PIPELINE AND FIRE HYDRANT PIPELINE TRENCH IN NATIVE EARTH AND CLASS 2 BASE AREAS - DETAIL NTS
E — 4,5,6 | 9

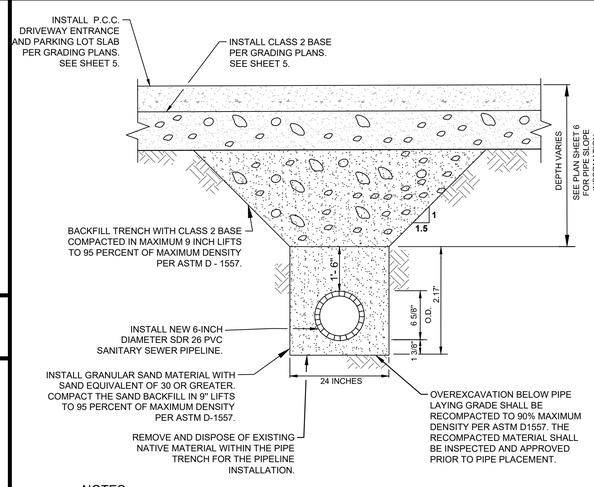


PRECAST P.C.C. BUMPER STOP
NTS — G — 4-5 | 9



NOTES:
1. GRIND 4' WIDE X 0.12' DEEP HEADER FULL LENGTH OF JOINT.
2. TACK COAT ENTIRE SURFACE WITH AR 1000 PAVING ASPHALT AT AN APPROXIMATE RATE OF 0.05 GALLON PER SQUARE YARD OR GRADE SS-IH EMULSIFIED ASPHALT AT AN APPROXIMATE RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE UNIFORMLY APPLIED UPON THE EXISTING PAVEMENT PRECEDING THE PLACEMENT OF THE ASPHALT CONCRETE. THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL OR DUST, WHEN THE TACK COAT IS APPLIED.
3. OVERLAY HEADER AREA TO MATCH NEW & EXISTING A.C. SURFACES. WHERE PAVEMENT IS INSTALLED ON A PROJECT ON MORE THAN ONE DAY, A HEADER (AS HERE IS DESCRIBED) MUST BE PROVIDED AT THE CONSTRUCTION JOINT.
4. SAWCUT A.C. PAVEMENT FOR FULL DEPTH OF A.C. PAVEMENT AFTER COMPLETION OF A.C. PAVEMENT GRINDING.

NEW CONSTRUCTION PAVEMENT EXTENSION JOINT
COUNTY OF IMPERIAL MODIFIED STANDARD DETAIL 453 NTS — H — 4,5,20 | 9



NOTES:
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA
   A) SHORING AS APPROVED BY THE ENGINEER.
   B) SLOPING BOTH TRENCH SIDES AT A 1.5:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1.5 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

SANITARY SEWER LATERIAL PIPELINE TRENCH ACROSS P.C.C. D/W ENTRANCE AND PARKING LOT - DETAIL NTS
I — 5-6 | 9

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DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

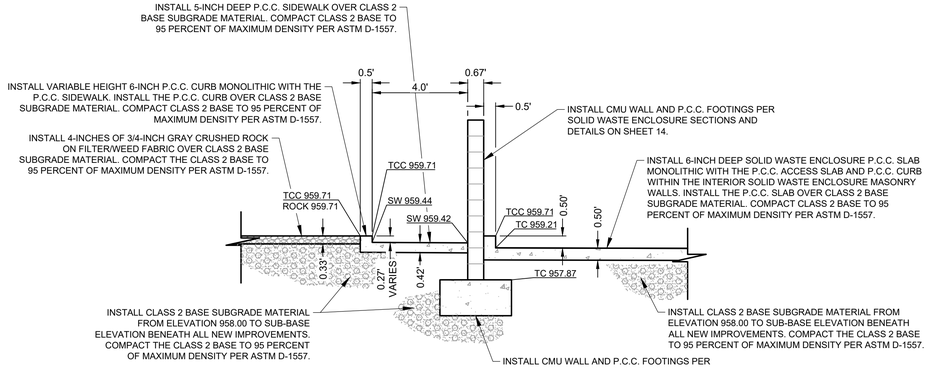
SHEET CONTENT:
WATER, SANITARY SEWER, PAVING AND SITE GRADING DETAIL SHEET

C1.09 SHEET 9 OF 23 SHEETS

JOB NO. 542.088

CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 6-INCH CURB AND GUTTER OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
3. INSTALL DEPRESSED P.C.C. CURB AND GUTTER PER DETAIL JJ ON PLAN SHEET 21.
4. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER EACH WAY 2 ½-INCHES ABOVE THE BOTTOM OF THE P.C.C. SLAB.
5. INSTALL 24-INCH X 24-INCH P.C.C. STORM WATER CATCH BASIN WITH GRATE PER DETAIL Y ON PLAN SHEET 14.
6. INSTALL MASONRY WALL, BELOW GRADE P.C.C. FOOTING AND CLASS 2 BASE FOOTING SUPPORT MATERIAL PER DETAIL X ON PLAN SHEET 14.
7. INSTALL 6-INCH P.C.C. CURB MONOLITHIC WITH THE P.C.C. ACCESS SLAB AND SOLIDS WASTE ENCLOSURE P.C.C. SLAB WITHIN THE SOLID WASTE ENCLOSURE MASONRY WALLS. PLACE THE P.C.C. CURB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
8. INSTALL 6-INCH DEEP SOLID WASTE ENCLOSURE P.C.C. SLAB MONOLITHIC WITH THE P.C.C. ACCESS SLAB AND P.C.C. CURB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL THE P.C.C. SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
9. INSTALL 12-INCH DEEP P.C.C. ACCESS SLAB. INSTALL THE ACCESS SLAB MONOLITHIC WITH THE P.C.C. CURB AND SOLID WASTE ENCLOSURE SLAB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL THE P.C.C. ACCESS SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
10. INSTALL 5-INCH DEEP P.C.C. SIDEWALK OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
11. INSTALL VARIABLE HEIGHT 6-INCH P.C.C. CURB MONOLITHIC WITH THE P.C.C. SIDEWALK PER SECTION A-A ON THIS PLAN SHEET. CURB VARIES FROM A HEIGHT OF 0.47 FEET ABOVE THE P.C.C. SIDEWALK TO A POINT AT THE SAME ELEVATION OF THE SIDEWALK IN 14 FEET. INSTALL THE P.C.C. CURB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
12. INSTALL 6-FOOT HIGH CHAIN LINK SWING GATES WITH VINYL PRIVACY SLATS PER FENCING PLAN SHEET 12. BOLT EACH FENCE POST TO THE MASONRY WALLS WITH A MINIMUM OF FOUR (4) EQUALLY SPACED 3/8-INCH, 8-INCH LONG GALVANIZED BOLTS. EPOXY THE BOLTS INTO THE MASONRY WALL. PROVIDE A PLUNGER ROD CATCH PIPE CAST WITHIN THE P.C.C. SLAB. THE GATES SHALL BE CAPABLE OF BEING PADLOCKED.
13. INSTALL 3/4-INCH WIDE X 3/8-INCH DEEP POLYURETHANE JOINT SEALANT ALONG THE P.C.C. CURB, SLABS AND SIDEWALK CONNECTION POINTS TO THE MASONRY WALLS. ALSO INSTALL THE POLYURETHANE JOINT SEALANT BETWEEN THE P.C.C. SOLIDS WASTE ENCLOSURE SLAB AND THE P.C.C. DEPRESSED CURB AND GUTTER. THE JOINT SEALANT SHALL BE A ONE-COMPONENT, SELF LEVELING, POLYURETHANE-BASED MATERIAL. IT SHALL BE APPLIED ALONG HORIZONTAL JOINTS. THE SEALANT SHALL PRINCIPALLY CURE UNDER THE INFLUENCE OF ATMOSPHERIC MOISTURE TO FORM AN ELASTOMERIC SUBSTANCE. THE SEALANT SHALL CONFORM TO FEDERAL SPECIFICATION TT-S-00230C, TYPE 1, CLASS A. THE SEALANT SHALL CONFORM TO ASTM C-920, TYPE S, GRADE P, CLASS 25. INSTALL BOND BREAKER TAPE IN THE BOTTOM OF ALL JOINTS TO PREVENT THREE-SIDED BONDING DURING THERMAL MOVEMENT. INSTALL THE SEALANT PER MANUFACTURERS SPECIFICATION SHEETS.
14. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
15. INSTALL 6-INCH P.C.C. BARRIER CURB OVER CLASS 2 BASE SUBGRADE MATERIAL PER DETAIL B ON SHEET 9. INSTALL THE P.C.C. BARRIER CURB ADJACENT TO THE NEW STORM WATER CATCH BASIN.



SECTION A-A
NTS

SOLID WASTE ENCLOSURE DETAIL J 4 10

1"=3'

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SHEET CONTENT:

SOLID WASTE ENCLOSURE PLAN

C1.10 SHEET

10 OF 23 SHEETS

JOB NO. 542.088

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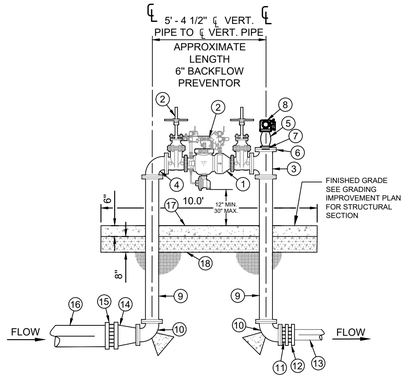

NOTES:

1. INSTALL A ZURN WILKINS MODEL 375 ADA 6-INCH BACKFLOW PREVENTOR WITH OS & Y GATE VALVES AND OTHER ACCESSORIES.
2. OS & Y GATE VALVE TAMPER SWITCH NOT REQUIRED FOR THIS PROJECT. IMPERIAL COUNTY FIRE DEPARTMENT WILL SECURE THE OS & Y VALVE POSITION WITH A CHAIN AND LOCK.
3. INSTALL 6" X 6" X 6" - FL X FL X FL DUCTILE IRON TEE.
4. INSTALL 6-INCH DIAMETER DUCTILE IRON FL X FL 90 DEGREE ELBOW.
5. INSTALL 4-INCH ZURN WILKINS MODEL F210 CHECK VALVE.
6. INSTALL 6-INCH DUCTILE IRON FLANGE WITH THREADED OUTLET.
7. INSTALL 4-INCH DIAMETER THREADED DI PIPE EXTENSION.
8. INSTALL 6315 GUARDIAN (SPRINKLER) FIRE DEPARTMENT INLET CONNECTION (FDC).
9. INSTALL 6" FLANGED DUCTILE IRON PIPE.
10. INSTALL 6-INCH DIAMETER DUCTILE IRON FLANGED 90 DEGREE ELBOW WITH FITTINGS AND P.C.C. THRUST BLOCK.
11. INSTALL 6" DUCTILE IRON FLANGED COUPLING ADAPTER.
12. INSTALL 6" DUCTILE IRON RESTRAINED JOINT FITTING.
13. INSTALL 6" AWWA C-900, DR 18 PVC PIPELINE.
14. INSTALL 6" X 8" DUCTILE IRON FLANGED REDUCER.
15. INSTALL 8 INCH DUCTILE IRON FLANGED COUPLING ADAPTER.
16. INSTALL 8" AWWA C-900 DR18 PVC WATER PIPELINE.
17. INSTALL 10' X 15' X 6" DEEP P.C.C. CONCRETE SLAB WITH 6X6 -6 GAUGE WELDED WIRE FABRIC.
18. INSTALL 8" CLASS 2 BASE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D1557.

6 INCH FIRE SPRINKLER PIPELINE BACKFLOW PREVENTOR WITH FDC-DETAIL

K | 6 | 11

NTS

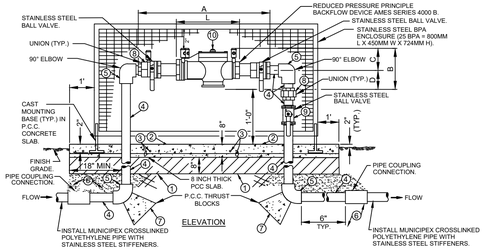

TABLE OF DIMENSIONS FOR BACKFLOW ASSEMBLY

SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT	
		A		B		C		D		L			
in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.
1/2	15	10	250	4-3/8	117	3-3/8	86	1-1/4	32	5-1/2	140	4.50	2.0
3/4	20	10-3/4	273	5	127	3-1/2	89	1-1/2	38	6-3/4	171	5.75	2.6
1	25	16-3/4	425	5-1/2	140	3	76	2-1/2	64	9-1/2	241	12.25	5.6
1-1/4	32	17-3/8	441	6	150	3-1/2	89	2-1/2	64	11-3/8	289	14.62	6.6
1-1/2	40	17-7/8	454	6	150	3-1/2	89	2-1/2	64	11-1/8	283	16.32	7.4
2	50	21-3/8	543	7-3/4	197	4-1/2	114	3-1/4	83	13-1/2	343	30.00	13.6

NOTES:

1. INSTALL 8 INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL A 4 FOOT WIDE, 8 INCH DEEP P.C.C. CONCRETE SLAB. THE LENGTH OF THE CONCRETE SLAB SHALL BE DETERMINED BY THE DIAMETER SIZE OF THE PIPELINE AND LENGTH OF THE BACKFLOW PREVENTER ASSEMBLY. THE SURFACE OF THE CONCRETE SLAB SHALL RECEIVE A DOUBLE TROWEL FINISH. THE CONCRETE SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING. THE CEMENT SHALL BE TYPE V.
3. INSTALL NUMBER 4 REINFORCING BARS 12 INCHES ON CENTER EACH WAY.
4. INSTALL TYPE K COPPER PIPELINE PER THE DIAMETER REQUIRED BY THE PLANS.
5. INSTALL COPPER 90 DEGREE ELBOWS.
6. BACKFILL THE BELOW GRADE COPPER PIPELINES AND 90 DEGREE ELBOW WITH A 1 FOOT ENVELOPE OF GRANULAR SAND BACKFILL. COMPACT THE GRANULAR SAND BACKFILL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL P.C.C. THRUST BLOCKS.
8. INSTALL A BRASS UNION FITTING. THE DIAMETER SIZE SHALL BE AS INDICATED ON THE PLANS.
9. INSTALL A BRASS BALL VALVE WITH OPERATOR HANDLE. THE DIAMETER SIZE SHALL BE AS INDICATED ON THE PLANS.
10. INSTALL A BRONZE BODY REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE ASSEMBLY WITH STAINLESS STEEL BALL VALVE HANDLES. CLEAN AND CHECK STRAINER AND UNION CONNECTIONS. THE BRONZE BODY REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE SHALL BE AN AMES FIRE & WATERWORKS SERIES 4000B.

2 INCH DOMESTIC WATER BACKFLOW PREVENTOR - DETAIL

L | 6 | 11

NTS

CONSTRUCTION KEYNOTES

1. INSTALL 6-INCH SDR 26 PVC PIPE SECTION.
2. INSTALL 6-INCH SDR 26 PVC WYE FITTING.
3. INSTALL NEW CAST IRON FRAME AND COVER LETTERED "SEWER" FLUSH WITH THE P.C.C. SIDEWALK FINISH GRADE.
4. INSTALL 6-INCH SDR 26 PVC 45-DEGREE ELBOW FITTING.

SANITARY SEWER PIPELINE DOUBLE CLEANOUT DETAIL

P | 6 | 11

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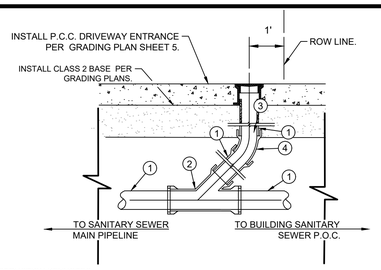
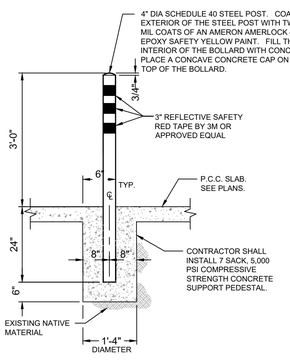


CONSTRUCTION KEYNOTES

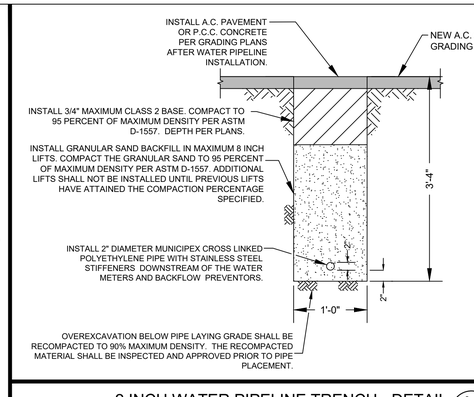
1. INSTALL 6-INCH SDR 26 PVC PIPE SECTION.
2. INSTALL 6-INCH SDR 26 PVC WYE FITTING.
3. INSTALL NEW CAST IRON FRAME AND COVER LETTERED "SEWER" FLUSH WITH THE P.C.C. DRIVEWAY ENTRANCE FINISH GRADE
4. INSTALL 6-INCH SDR 26 PVC 45-DEGREE ELBOW FITTING.



4 INCH BOLLARD - DETAIL

O | 4,5,6 | 11

NTS



2 INCH WATER PIPELINE TRENCH - DETAIL

M | 6 | 11

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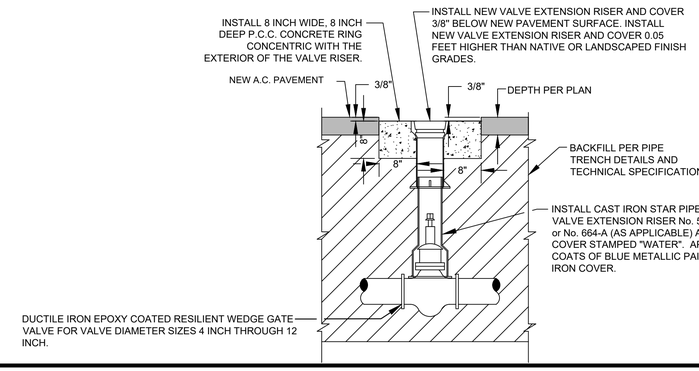
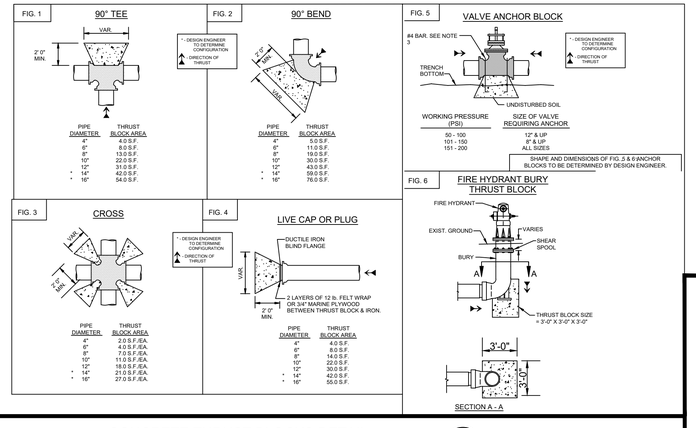


WATER VALVE DETAIL

N | 6,21 | 11

NTS



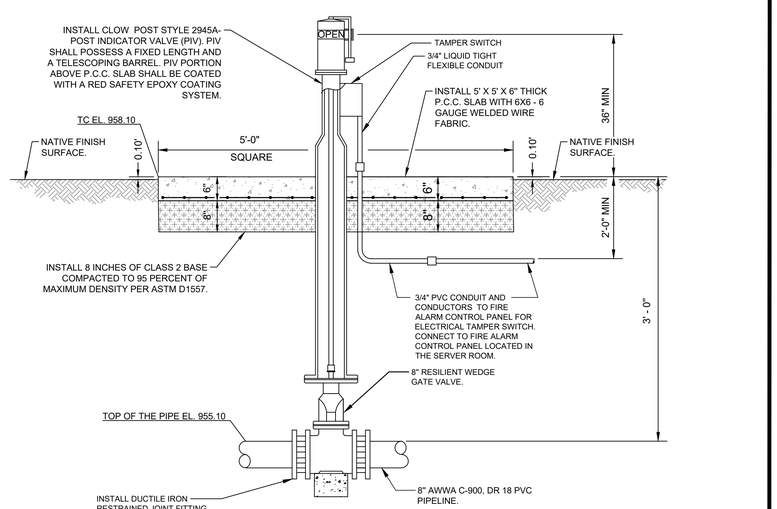
CONCRETE THRUST BLOCKS DETAIL

Q | 6,11 | 11

NTS

THRUST BLOCK NOTES:

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



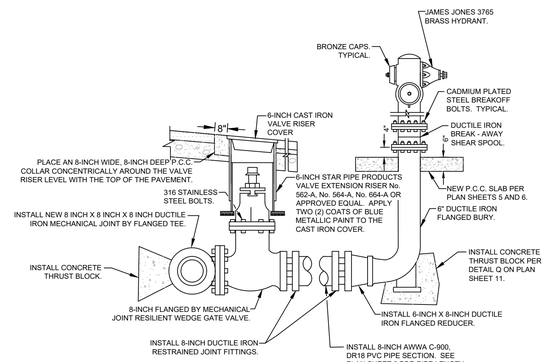
POST INDICATOR VALVE DETAIL

S | 6 | 11

NTS

FIRE HYDRANT ASSEMBLY NOTES

1. HYDRANT LOCATION IS ILLUSTRATED ON PLAN SHEET 6.
2. APPLY TWO (2) 5 DRY FILM MIL COATS OF YELLOW COATING TO HYDRANT SURFACES. THE YELLOW COATING SHALL BE AN AMERON AMERSHIELD HIGH GLOSS ALIPHATIC POLYURETHANE COATING SYSTEM.
3. ALL BELOW GRADE HARDWARE SHALL CONSIST OF 316 STAINLESS STEEL. PLACE ANTI-SEIZE COMPOUND ON ALL STAINLESS STEEL HARDWARE.
4. BACKFILL FOR FIRE HYDRANT ASSEMBLY SHALL CONSIST OF SAND OR CLASS 2 BASE. GRANULAR SAND SHALL POSSESS A SAND EQUIVALENT OF 30 OR GREATER. COMPACT THE SAND OR CLASS 2 BASE BACKFILL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.



FIRE HYDRANT DETAIL

T | 6 | 11

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PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 07/08/2022 DATE

31773 R.C.E. NO. — 12/31/2022 REG. EXP.

PROJECT TITLE:

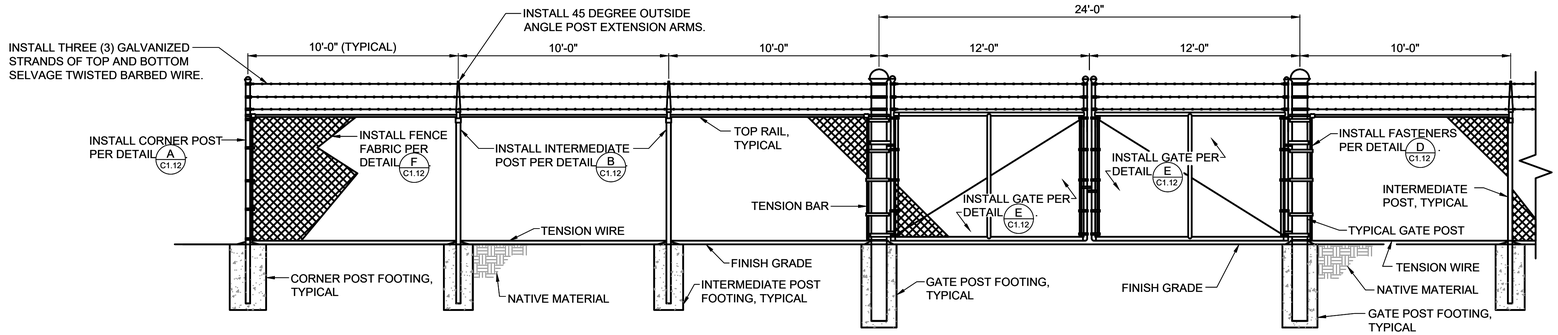
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

WATER AND SANITARY SEWER DETAIL SHEET

C1.11 SHEET 11 OF 23 SHEETS

JOB NO. 542.088



MATERIALS SCHEDULE FOR FENCING

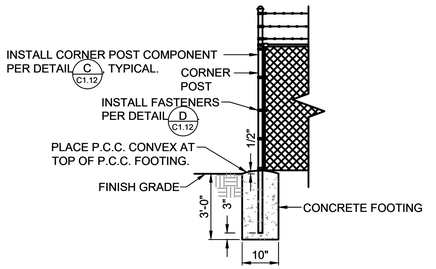
DESCRIPTION	SIZE
I. FABRIC	2" MESH, #9 GAUGE
II. RAILS, POSTS AND GATES	
A. CORNER AND PULL POSTS	2 7/8" O.D. @ 2.72 LB/FT
B. INTERMEDIATE POSTS	2 3/8" O.D. @ 2.23 LB/FT
C. RAILS	1 5/8" @ 1.65 LB/FT
D. GATE POSTS	4" O.D. @ 7.85 LB/FT
E. GATE FRAMES	1 7/8" TUBULAR MATERIAL
III. TENSION BARS	1/4" X 3/4"
IV. TENSION WIRE	#9 GAUGE
V. FOOTINGS	
A. CORNER AND PULL POSTS	10" O.D. x 36" DEEP
B. INTERMEDIATE POSTS	8" O.D. x 30" DEEP
C. GATE POSTS	12" O.D. x 42" DEEP
D. CONCRETE - FOOTINGS SHALL CONSIST OF (7) SACKS OF CEMENT PER CUBIC YARD OF CONCRETE AND SHALL ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS OF CURING.	

FENCING NOTES

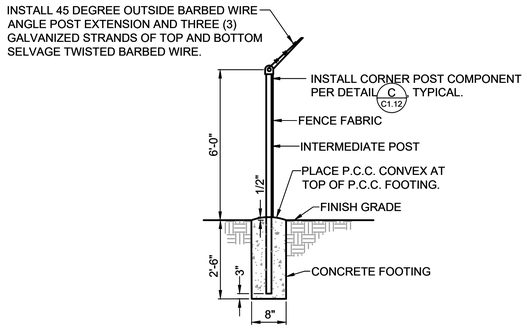
GRADING OF THE GROUND ALONG THE FENCE TO ASSURE A UNIFORM GRADE ALONG THE LENGTH OF THE FENCE SHALL BE ACCOMPLISHED BY THE CONTRACTOR PRIOR TO POST PLACEMENT. THE CHAIN LINK FENCE FABRIC SHALL BE NO. 9 GAUGE STEEL WIRE, 2 INCH MESH, SIX (6) FEET HIGH AND SHALL BE GALVANIZED AFTER WEAVING. IT SHALL BE FASTENED TO THE LINE POSTS BY MEANS OF SUITABLE GALVANIZED CLIPS AT INTERVALS OF NOT MORE THAN TWO (2) FEET AND FASTENED TO THE END, CORNER AND GATE POSTS BY MEANS OF ADJUSTABLE CLAMPS AT INTERVALS NOT TO EXCEED 15 INCHES AND AT TENSION BARS. FABRIC SHALL CONFORM TO ASTM STANDARD A-392, EXCEPT THAT IT SHALL WITHSTAND SIX (6) DIPS OF ONE (1) MINUTE EACH BY THE PREECE TEST (ASTM A-239). PIPE SHALL CONFORM TO ASTM STANDARD A-120. THE CHAIN LINK FABRIC SHALL BE ATTACHED TO THE TENSION WIRE AT INTERVALS OF NOT MORE THAN (2) FEET. TENSION WIRE SHALL CONFORM TO ASTM STANDARD A-112. THE CHAIN LINK GATES TO BE FURNISHED AND INSTALLED SHALL BE JOINED AT THE CORNERS BY ARC WELDING TO FORM A SOLID PANEL, AND SHALL BE SUITABLY BRACED TO PREVENT SAGGING. THE FABRIC SHALL BE THE SAME AS SPECIFIED FOR THE FENCE AND IT SHALL BE FASTENED TO THE FRAME BY MEANS OF ADJUSTABLE CLAMPS AND TENSION RODS. THE GATES SHALL BE EQUIPPED WITH SUITABLE HINGES AND COMBINATION CATCHES AND LOCKING OF APPROVED DESIGN. EXCEPT WHERE OTHERWISE SPECIFIED, ALL PARTS OF THE FENCE, GATES AND PIPE CLAMPS ARE TO BE GALVANIZED THROUGHOUT WITH HOT DIP GALVANIZING IN CONFORMANCE WITH " STANDARD SPECIFICATIONS OF ZINC (HOT GALVANIZED) COATINGS ON STRUCTURAL STEEL SHAPES, PLATES, BARS AND THEIR PRODUCTS" (ASTM A-123), AND WITHSTANDING SIX (6) ONE MINUTE IMMERSIONS BY THE PREECE TEST (ASTM A-239-44). GATES MAY BE GALVANIZED AFTER FABRICATION OR FABRICATED FROM GALVANIZED PARTS, IN WHICH CASE THE WELDS SHALL BE PROTECTED BY AN APPROVED METHOD THAT WILL MEET THE REQUIREMENTS OF THE PREECE TEST REFERENCED ABOVE. POST SHALL BE SET PLUMB AND SHALL BE CENTERED IN THE CONCRETE ENCASEMENT. THE TOP SURFACES OF THE CONCRETE ENCASEMENT SHALL BE SLOPED OUTWARD TO SHED WATER AND SHALL HAVE A NEAT APPEARANCE. ANY GALVANIZED COATING DAMAGED DURING CONSTRUCTION OF THE FENCING SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE. AFTER THE FENCE IS INSTALLED, THE CONTRACTOR SHALL COLLECT ALL DEBRIS RESULTING FROM THE FENCE INSTALLATION AND REMOVE IT FROM THE PROJECT SITE. THE GROUND ON EACH SIDE OF THE FENCE SHALL BE LEVELED EVEN WITH THE EXISTING GRADE.

LOCK MECHANISM FOR GATE

A SUITABLE LOCK MECHANISM FOR THE GATE SHALL BE PROVIDED. THE LOCK MECHANISM SHALL BE PROVIDED WITH A GATE LOCK AND SIX KEYS FOR THE LOCK. LOCK MECHANISM SHALL BE APPROVED DURING SUBMITTAL PROCESS.



CORNER POST SECTION, TYPICAL A
NOT TO SCALE C1.12



INTERMEDIATE POST SECTION, TYPICAL B
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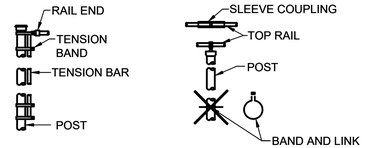
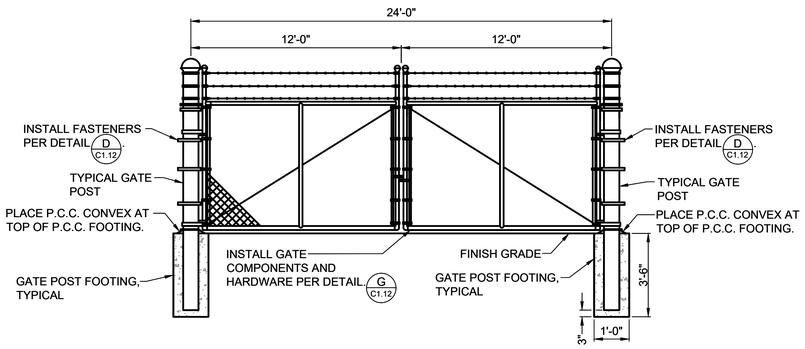


ENLARGED POST DETAILS C
SCALE: NOT TO SCALE C1.12

ENLARGED FASTENER DETAILS D
NOT TO SCALE C1.12



DOUBLE SWING GATE DETAIL E
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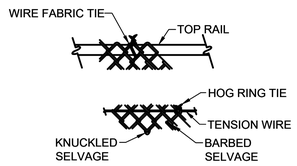

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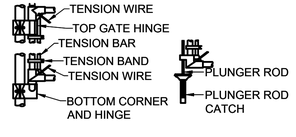
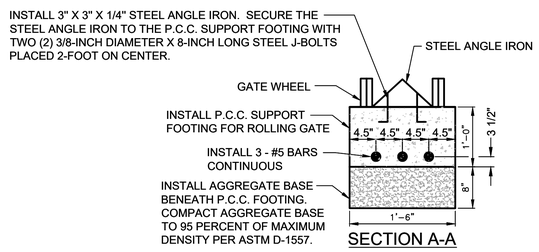
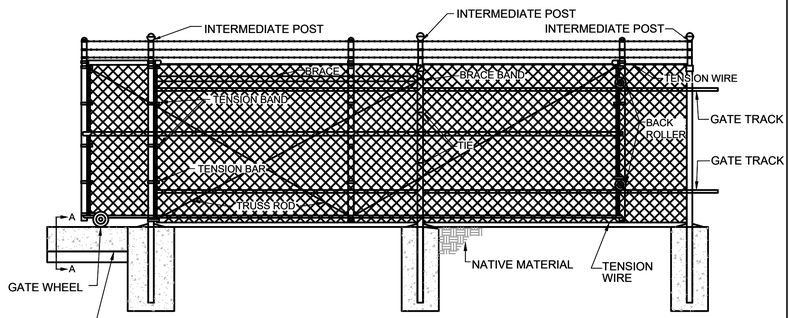
NOT TO SCALE C1.12



ENLARGED GATE DETAILS G
NOT TO SCALE C1.12



SECTION A-A



ROLL GATE DETAIL H
NOT TO SCALE C1.12

CHAIN LINK FENCE DETAIL U
NTS 6 12

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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
CHAIN LINK FENCE DETAIL SHEET

C1.12 SHEET
12 OF 23 SHEETS
JOB NO. 542.088

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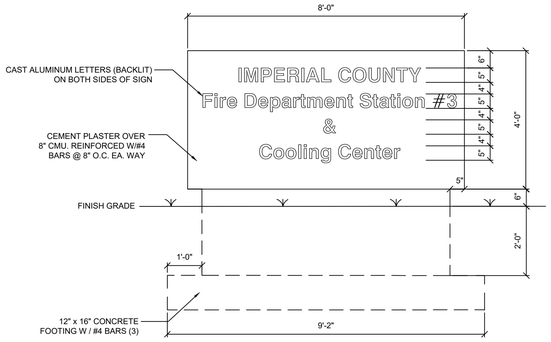
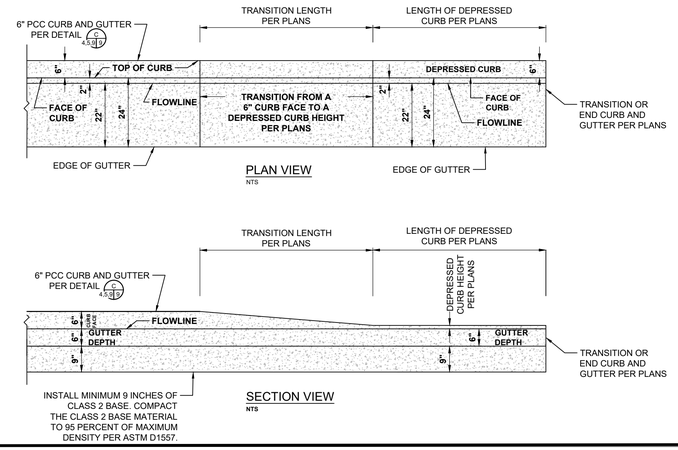


MONUMENT SIGN DETAIL

NTS

V
5|13



CURB AND GUTTER TRANSITION DETAIL

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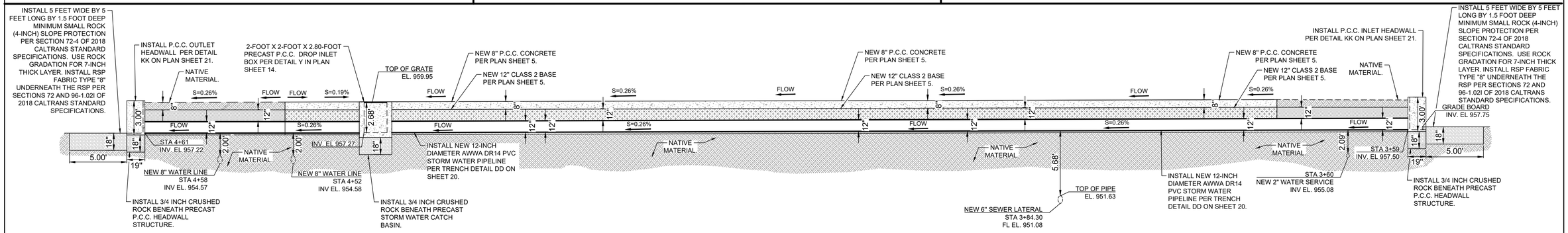
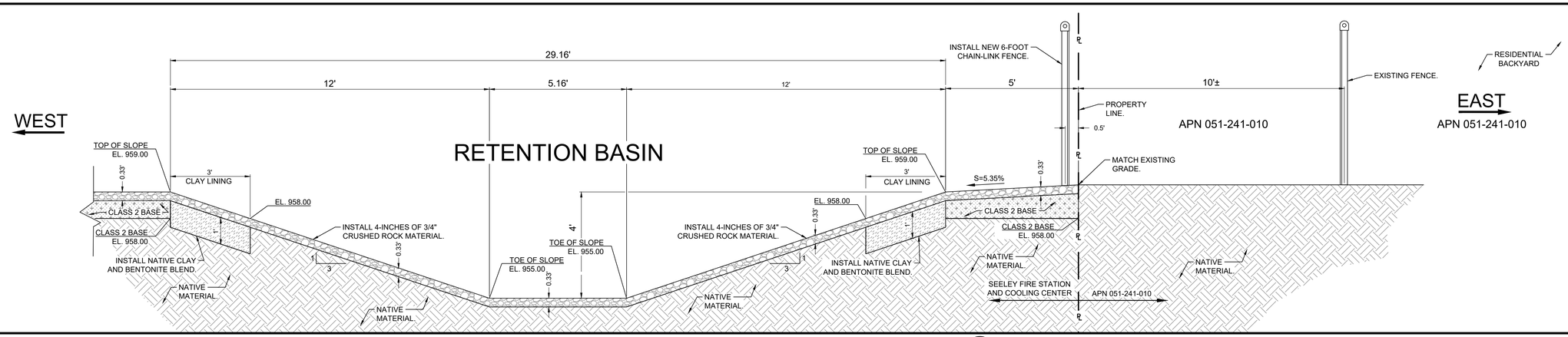
W
4,5|13



OFF-SITE STORM WATER PIPELINE CROSS-SECTION

SCALE 1"=4'

I-I
5|13



NORTHEAST RETENTION BASIN CROSS-SECTION

SCALE 1"=2'

J-J
4|13

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DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:
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JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
MISCELLANEOUS DETAIL SHEET

C1.13 SHEET 13 OF 23 SHEETS
JOB NO. 542.088

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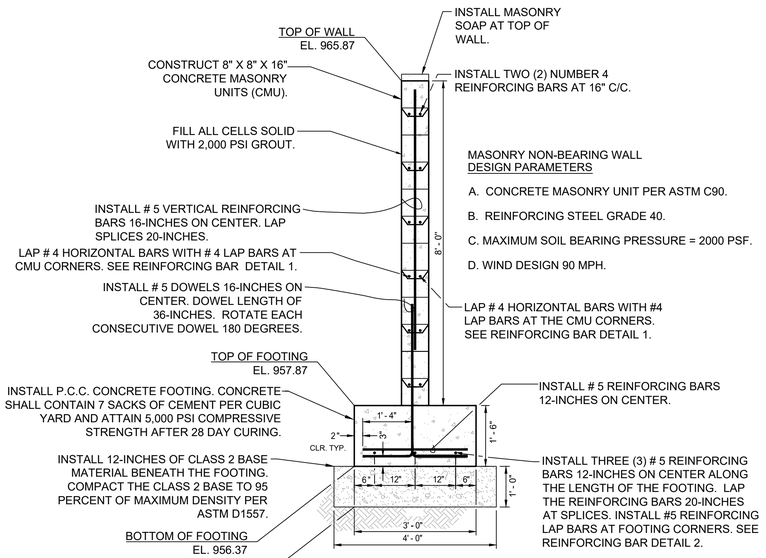
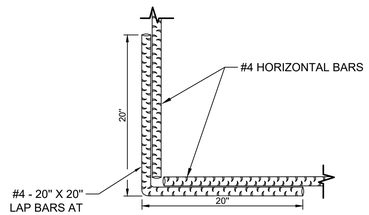
MASONRY WALL NOTES

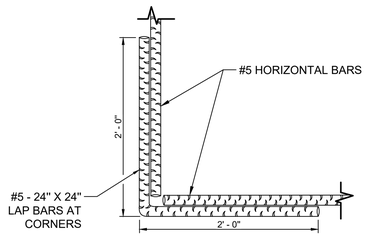
1. FOOTING TO BE CONSTRUCTED OF CONCRETE CONTAINING 7 SACKS OF CEMENT PER CUBIC YARD. THE CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS.
2. ~~FINISHED GRADE DIFFERENCE ON EACH SIDE OF WALL NOT TO EXCEED SIX INCHES.~~
3. GROUT ALL CELLS CONTAINING REBAR. INCLUDING BOND BEAMS WITH 2,000 PSI GROUT.
4. COAT THE ABOVE AND BELOW GRADE CMU WALL SURFACES INCLUDING THE MASONRY CAP WITH AN ANTI GRAFFITI PAINT. THE COATING APPLIED SHALL BE AN ALIPHATIC ACRYLIC POLYURETHANE COATING. THE ALIPHATIC ACRYLIC POLYURETHANE COATING SHALL BE A CARBOLINE CARBOTHANE. APPLY THREE (3) APPLICATIONS OF THE COATING SYSTEM AT 2 MIL DRY FILM THICKNESS PER COAT. APPLICATION SHALL BE ACCOMPLISHED WITH A WIDE NOZZLE AIRLESS SPRAY GUN. THE COLOR OF THE WALL SHALL BE DETERMINED BY THE COUNTY OF IMPERIAL WORK FORCE & ECONOMIC DEVELOPMENT AGENCY DIRECTOR.



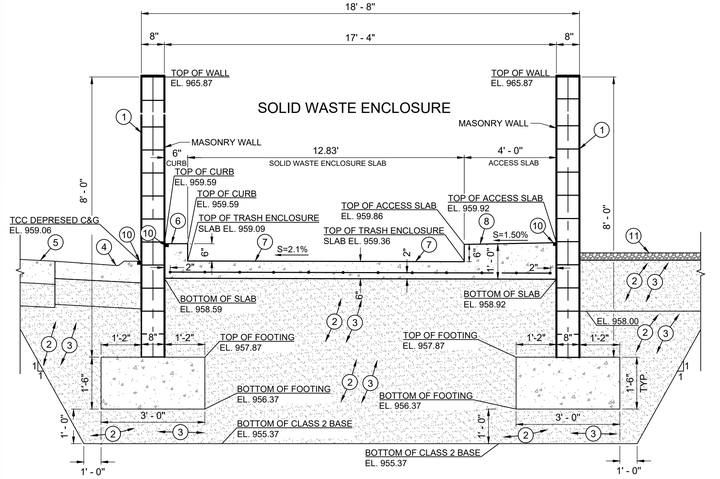
MASONRY WALL SECTION
NTS



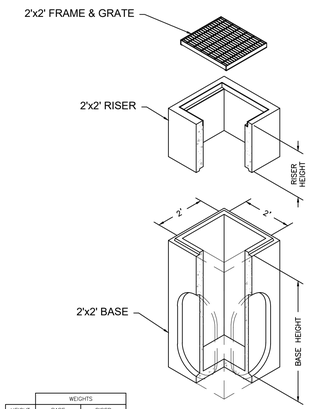
REINFORCING BAR DETAIL 1
NTS



REINFORCING BAR DETAIL 2
NTS

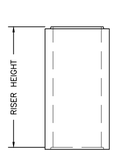


SOLID WASTE ENCLOSURE SECTION
NTS

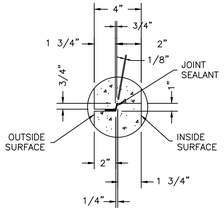


WEIGHTS		
HEIGHT	BASE	RISER
6"		233 #
1'		466 #
2'	1,205 #	933 #
3'	1,502 #	1,399 #
4'	1,799 #	1,866 #
5'	2,076 #	2,333 #

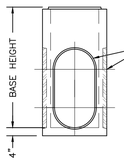
NOTES:
1. Vault design complies with ASTM C-857 and C-858 with less than 2' of earth cover and an AASHTO HS-20 loading.
2. Lifting insert type and location may change without notice.

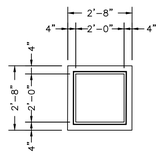


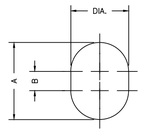
2'x2' CATCH BASIN RISER ELEVATION VIEW



JOINT DETAIL



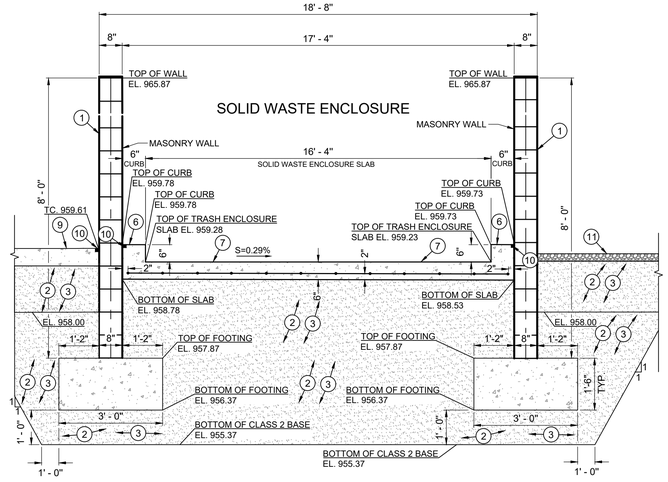




KNOCKOUTS ARE 2" DEEP

KNOCKOUT DIMENSIONS			
BASE HEIGHT	DIA.	A	B
2'	20"	20"	0"
3'	20"	27"	7"
4'	20"	30"	10"
5'	20"	39"	19"

STORM WATER CATCH BASIN DETAIL
NTS
Y
4,5,10|14



SOLID WASTE ENCLOSURE SECTION
NTS

E-E
10|14

SOLIDS WASTE ENCLOSURE – SECTION CONSTRUCTION KEYNOTES

1. CONSTRUCT CEMENT MASONRY UNIT (CMU) WALL PER DETAIL X ON PLAN SHEET 14.
2. EXCAVATE NATIVE EARTH 1 FOOT BELOW THE BOTTOM OF THE CMU WALL FOOTINGS TO AN ELEVATION OF 955.37. EXCAVATE THE NATIVE MATERIAL FROM THE EXTERIOR EDGES OF THE FOOTINGS AT A 1 TO 1 SLOPE. REMOVE AND DISPOSE OF THE NATIVE MATERIAL.
3. INSTALL CLASS 2 BASE BENEATH WALL FOOTINGS, THE SOLIDS WASTE ENCLOSURE, AND THE EXTERIOR EXCAVATION AREA OUTSIDE OF THE SOLIDS WASTE ENCLOSURE. COMPACT THE CLASS 2 BASE IN 9 INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D1557. ADDITIONAL LIFTS SHALL NOT BE INSTALLED UNTIL PREVIOUS LIFTS HAVE BEEN SATISFACTORILY COMPACTED.
4. INSTALL DEPRESSED PCC CURB AND GUTTER PER DETAIL JJ ON PLAN SHEET 21.
5. INSTALL 8 INCHES OF PCC CONCRETE OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12 INCHES ON CENTER EACH WAY 2 ½ INCHES ABOVE THE BOTTOM OF THE PCC SLAB.
6. INSTALL 6 INCH WIDE X 12 INCH DEEP PCC CURB MONOLITHIC WITH THE PCC ACCESS SLAB AND SOLIDS WASTE ENCLOSURE PCC SLAB WITHIN THE SOLID WASTE ENCLOSURE MASONRY WALLS. PLACE THE PCC CURB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL 6 INCH DEEP SOLID WASTE ENCLOSURE PCC SLAB MONOLITHIC WITH THE PCC ACCESS SLAB AND PCC CURB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL NUMBER 4 REINFORCING BARS 12 INCHES ON CENTER EACH WAY 2 INCHES ABOVE THE BOTTOM OF THE PCC SLAB. INSTALL THE PCC SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
8. INSTALL 12 INCH DEEP PCC ACCESS SLAB. INSTALL THE ACCESS SLAB MONOLITHIC WITH THE PCC CURB AND SOLID WASTE ENCLOSURE SLAB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL THE PCC ACCESS SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
9. INSTALL 5 INCH DEEP PCC SIDEWALK OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
10. INSTALL ¼ INCH WIDE X 3/8 INCH DEEP POLYURETHANE JOINT SEALANT ALONG THE PCC CURB, SLABS AND SIDEWALK CONNECTION POINTS TO THE MASONRY WALLS. ALSO INSTALL THE POLYURETHANE JOINT SEALANT BETWEEN THE PCC SOLIDS WASTE ENCLOSURE SLAB AND THE PCC DEPRESSED CURB AND GUTTER. THE JOINT SEALANT SHALL BE A ONE-COMPONENT, SELF LEVELING, POLYURETHANE-BASED MATERIAL. IT SHALL BE APPLIED ALONG HORIZONTAL JOINTS. THE SEALANT SHALL PRINCIPALLY CURE UNDER THE INFLUENCE OF ATMOSPHERIC MOISTURE TO FORM AN ELASTOMERIC SUBSTANCE. THE SEALANT SHALL CONFORM TO FEDERAL SPECIFICATION TT-S-00230C, TYPE 1, CLASS A. THE SEALANT SHALL CONFORM TO ASTM C-920, TYPE S, GRADE P, CLASS 25. INSTALL BOND BREAKER TAPE IN THE BOTTOM OF ALL JOINTS TO PREVENT THREE-SIDED BONDING DURING THERMAL MOVEMENT. INSTALL THE SEALANT PER MANUFACTURERS SPECIFICATION SHEETS.
11. INSTALL 4-INCHES OF ¾ INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM

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NO.	REVISIONS:	APPROVED	DATE

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

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PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
SOLID WASTE ENCLOSURE SECTIONS AND DETAILS

C1.14 SHEET
14 OF 23 SHEETS
JOB NO. 542.088

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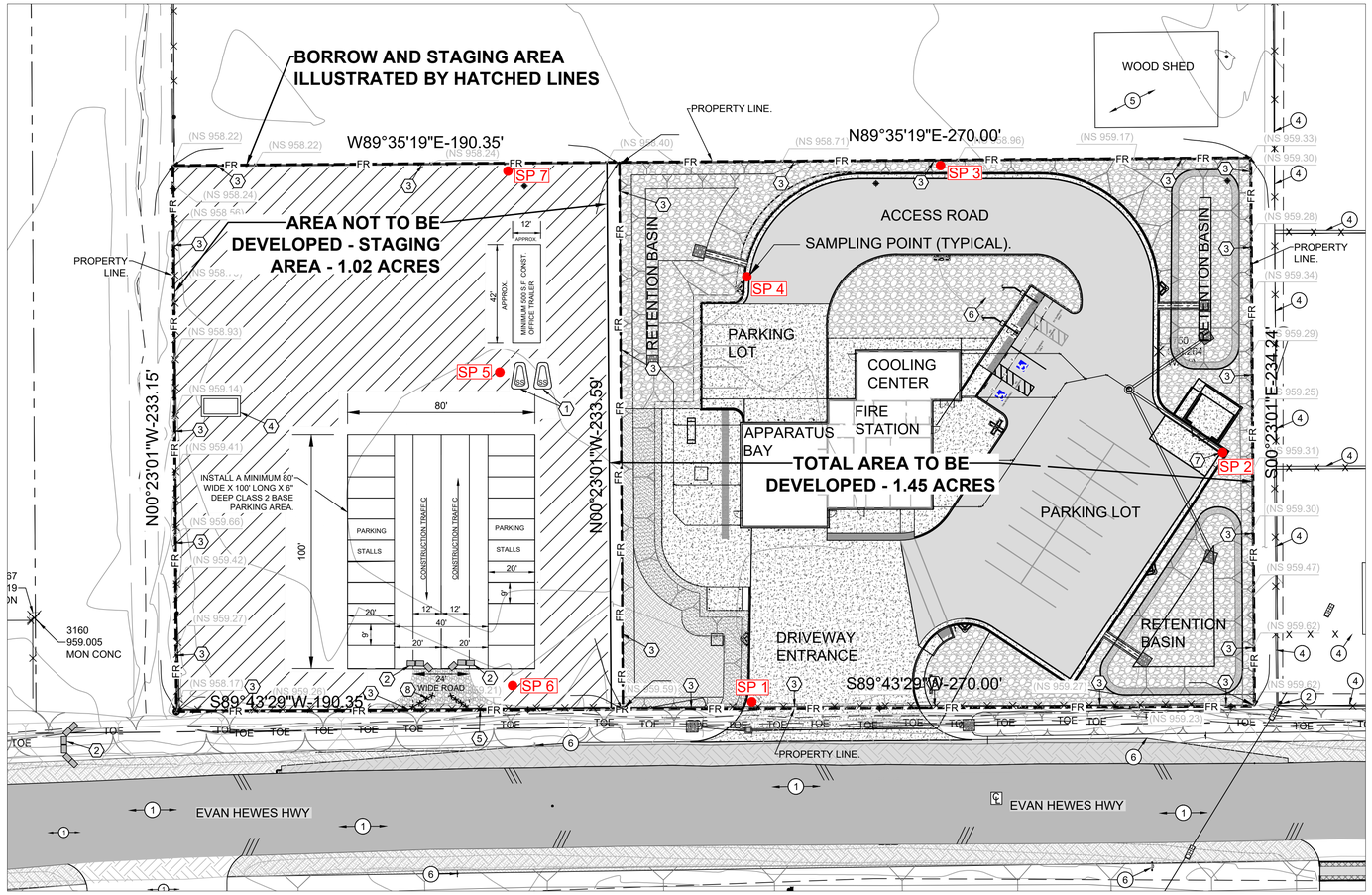

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. ~~EXISTING COMMUNICATION ENCLOSURE TO REMAIN.~~
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.
7. ~~EXISTING GAS MARKER TO REMAIN.~~

GENERAL EROSION CONTROL NOTES:

1. EROSION CONTROL PLAN INCLUDES ALL POSSIBLE BMPS FOR THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL APPLY APPROPRIATE BMPS FOR EACH PHASE OF CONSTRUCTION.
2. STREET SWEEPING (DURING MASS GRADING ACTIVITIES, STREETS WILL BE SWEPT AS NECESSARY TO PREVENT DIRT AND DUST FROM LEAVING THE CONSTRUCTION AREA). COORDINATE STREET SWEEPING ACTIVITIES REQUIRED BY THE CONTRACTOR WITH THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT. PROVIDE ALL TRAFFIC CONTROL DURING STREET SWEEPING REQUIRED BY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT.
3. CONTRACTOR SHALL PROVIDE ADEQUATE DUST SUPPRESSION TO MEET ALL COUNTY OF IMPERIAL AIR POLLUTION CONTROL DISTRICT REQUIREMENTS INCLUDING ALL DETOUR SIDE ROADS.
4. ALL BEST MANAGEMENT PRACTICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF CASQA STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK.
5. SITE DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
6. NO SITE CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
7. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCE THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
9. DRAIN INLET PROTECTION SHALL BE PROVIDED THROUGHOUT THE DURATION OF THE PROJECT. EXISTING DRAIN INLETS SHALL BE PROTECTED UNTIL FINAL REMOVAL AND THE CONNECTING PIPE SHALL BE PROPERLY CAPPED TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION ON ANY EXPOSED AREAS WHEN THE PROJECT IS COMPLETE.
11. CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE ALLOWED TO BE LOCATED WITHIN THE STAGING AREA.

LEGEND

1. PORTABLE TOILET
2. GRAVEL BAGS
3. CONCRETE WASHOUT AREA
4. FIBER ROLLS
5. CONSTRUCTION ENTRANCE

BMP KEYNOTES

1. CONTRACTOR SHALL LOCATE THE PORTABLE RESTROOM FACILITIES TO A LOCATION APPROVED BY THE ENGINEER.
2. INSTALL TWO (2) LAYER GRAVEL-FILLED BAGS AT AND ALONG THE DOWNSTREAM LOCATIONS OF THE EXISTING/NEW CONCRETE STORMWATER CONVEYANCE FACILITIES AND ALONG THE DOWNSTREAM DRIVEWAY ENTRANCE FROM EVAN HEWES HIGHWAY. SEE DETAIL E2 ON SHEET 16.
3. INSTALL TEMPORARY FIBER ROLLS PER DETAIL E5 ON SHEET 16.
4. INSTALL CONCRETE WASHOUT AREA PER CALIFORNIA BMP HANDBOOK WM-8 DETAILS. SEE DETAIL E3 ON SHEET 16.
5. INSTALL CONSTRUCTION ENTRANCE PER DETAIL E4 ON SHEET 16.
6. ~~INSTALL GRAVEL BAGS AROUND THE PERIMETER OF THE INLET PER DETAIL E2 ON SHEET 16.~~
7. ~~INSTALL GRAVEL BAGS AT THE INLET LOCATION AS ILLUSTRATED ON DETAIL E4 ON SHEET 16.~~
8. INSTALL 24 FOOT WIDE CHAIN LINK FENCE ACCESS GATE. COORDINATE THE EXACT LOCATION OF THE ACCESS GATE SUCH THAT THE CENTERLINE OF THE ACCESS ROAD SHALL BE COINCIDENT WITH THE CENTERLINE CHAIN LINK FENCE ACCESS GATE. SEE PLAN SHEET 6, THE FENCING AND UTILITY PLAN. INSTALL THE 24 FOOT WIDE CHAIN LINK FENCE ACCESS GATE PER DETAIL E ON PLAN SHEET 12.

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, WM-8 AND WM-9. REFER TO LATEST VERSION OF CASQA STORMWATER BMP HANDBOOK.
-	STREET SWEEPING	STREET SWEEPING SHALL BE PERFORMED AS NECESSARY TO ENSURE TRAVELED WAYS ARE FREE OF DIRT.CONTACT IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT TO COORDINATE STREET SWEEPING REQUIRED BY THE CONTRACTOR.
-	TEMPORARY RESTROOM FACILITIES	THE RESTROOM FACILITIES SHALL BE SECURED FROM OVERTURNING IN HIGH WIND CONDITIONS. A MENS AND WOMANS RESTROOM (TWO RESTROOMS) SHALL BE LOCATED AT THE CONSTRUCTION SITE.
WE-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.

NOTE:
THE CONTRACTOR SHALL REFER TO TECHNICAL SPECIFICATION SECTION 01 51 00, TEMPORARY FACILITIES AND TECHNICAL SPECIFICATION SECTION 01 55 00, SITE ACCESS AND STORAGE REGARDING MOBILIZATION AND STAGING AREA REQUIREMENTS. THE CONTRACTOR SHALL BE ALLOWED TO INSTALL THE PERMANENT 6 FOOT CHAIN LINK FENCE AROUND THE "AREA NOT TO BE DEVELOPED" STAGING AND BORROW AREA AT THE COMMENCEMENT OF THE PROJECT AS SECURITY FENCING; HOWEVER, ANY DAMAGE SUSTAINED TO THE FENCING DURING THE CONSTRUCTION OF THE PROJECT, WHETHER SUSTAINED BY THE CONTRACTOR OR ANOTHER PARTY, SHALL BE REPAIRED TO A NEW CONDITION AT THE CONTRACTORS EXPENSE.

30 0 30 60 90
SCALE 1"= 30'

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DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:
NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
EROSION CONTROL PLAN AND CONTRACTOR STAGING AREA

C1.15 SHEET 15 OF 23 SHEETS
JOB NO. 542.088

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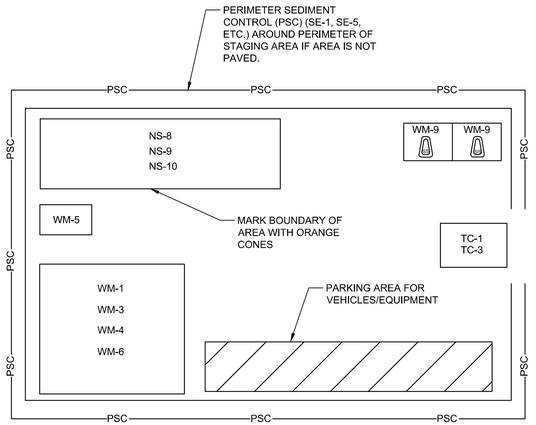


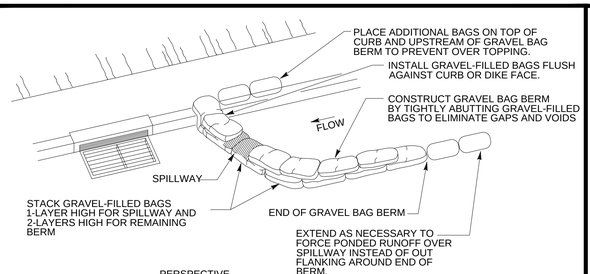
LEGEND

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

TYPICAL STAGING AREA LAYOUT

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

TYPICAL STAGING AREA - DETAIL E1
NOT TO SCALE



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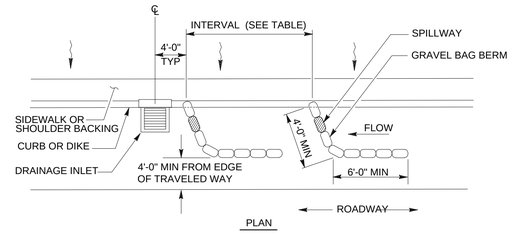


PLAN

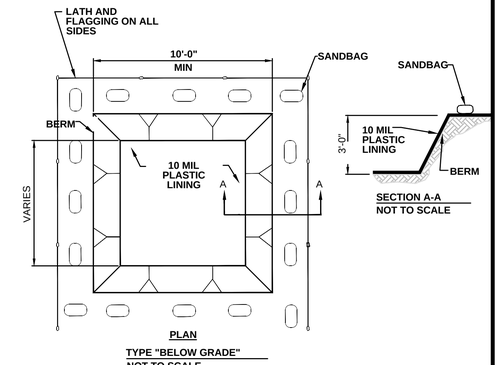
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent

GRAVEL BAG DETAIL - DETAIL E2
NOT TO SCALE

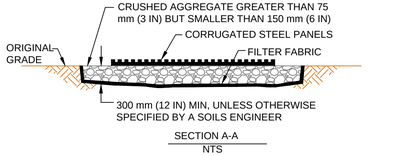


PLAN

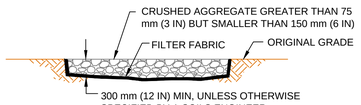
TYPE "BELOW GRADE"
NOT TO SCALE

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

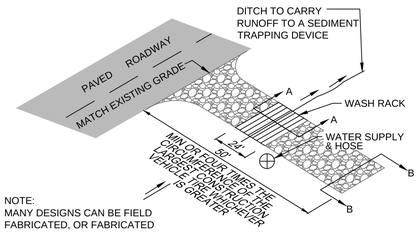
CONCRETE WASHOUT AREA - DETAIL E3
NOT TO SCALE



SECTION A-A
NTS

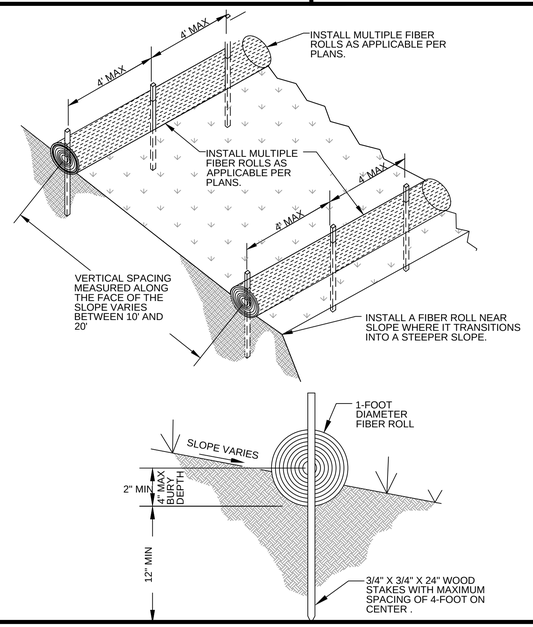


SECTION B-B
NTS



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

CONSTRUCTION ENTRANCE - DETAIL E4
NOT TO SCALE



TYPICAL FIBER ROLL INSTALLATION - DETAIL E5
NOT TO SCALE

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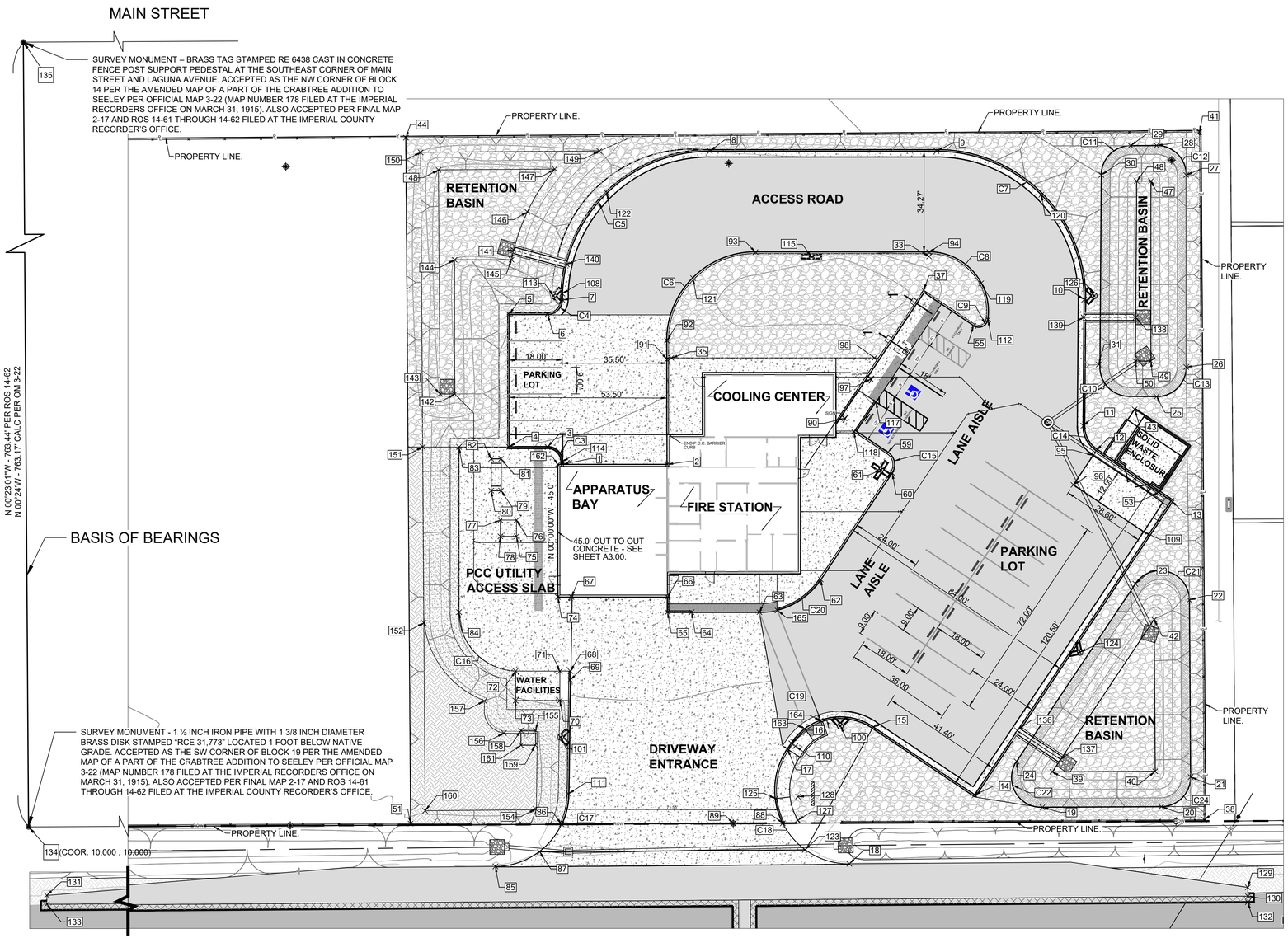


Point Table			
Point #	Northing	Easting	Description
1	10123.25	10242.31	TCC
2	10123.25	10277.81	TC
3	10129.13	10237.31	TCC-BC
4	10129.13	10224.31	TCC
5	10174.13	10224.31	TCC
6	10174.13	10237.30	TCC-EC
7	10178.99	10242.34	TC-EC
8	10229.48	10292.33	TCC-BC
9	10229.48	10369.21	TCC-EC
10	10179.10	10419.21	TCC-BC
11	10136.31	10418.89	TCC-EC
12	10127.92	10423.33	TCC-BC
13	10110.91	10448.77	TCC
14	10011.15	10382.10	TCC
15	10034.15	10347.68	TCC-EC
16	10028.65	10319.95	TCC-BC
17	10026.70	10318.64	TCC-EC
18	9987.78	10339.60	TCC-BC

Point Table			
Point #	Northing	Easting	Description
19	10006.96	10405.04	TOP-EC
20	10007.16	10445.33	TOP-BC
21	10017.23	10455.28	TOP-EC
22	10077.25	10454.88	TOP-BC
23	10082.74	10436.56	TOP-EC
24	10022.52	10396.32	TOP-BC
25	10146.22	10443.73	TOP-BC
26	10156.22	10453.81	TOP-EC
27	10221.37	10453.81	TOP-BC
28	10231.37	10443.73	TOP-EC
29	10231.30	10434.95	TOP-BC
30	10221.38	10425.03	TOP-EC
31	10157.05	10424.09	TOP-BC
33	10193.71	10366.65	TOP-EC
35	10159.35	10279.28	TOP
37	10182.32	10364.79	BOT
38	10002.73	10459.88	FENCE-C
39	10018.98	10408.40	BOT

Point Table			
Point #	Northing	Easting	Description
40	10019.15	10443.27	BOT
41	10235.97	10458.31	FENCE-C
42	10070.66	10442.92	BOT
43	10141.91	10436.30	SW
44	10234.01	10189.31	FENCE-C
47	10219.31	10441.84	BOT
48	10219.32	10437.01	BOT
49	10158.24	10441.81	BOT
50	10158.28	10436.57	BOT
51	10001.43	10190.88	FENCE-C
53	10113.84	10444.40	CURB TRANS.
55	10170.20	10381.73	TCC-EC
59	10127.42	10352.76	TCC-BC
60	10120.25	10354.18	TCC-EC
61	10121.27	10350.31	LIGHT
62	10084.23	10329.91	TCC-BC
63	10073.13	10309.13	TCC- END AC
64	10073.13	10286.12	TCC- VARIABLE

Point Table			
Point #	Northing	Easting	Description
65	10073.13	10277.98	TCC-VARIABLE
66	10078.25	10277.98	TCC-VARIABLE
67	10078.25	10245.44	TCC-DEP. CURB
68	10053.13	10245.07	TCC-DEP. CURB
69	10050.13	10245.02	TCC-VARIABLE
70	10043.13	10241.49	TC
71	10053.13	10241.49	TC
72	10053.14	10226.49	TC-EC
73	10043.13	10226.49	TC
74	10078.25	10240.80	BLDG-COR
75	10098.84	10226.80	XFRMR
76	10104.34	10226.80	XFRMR
77	10104.34	10221.30	XFRMR
78	10098.84	10221.30	XFRMR
79	10114.34	10221.58	GEN-SET
80	10114.34	10218.20	GEN-SET
81	10125.13	10221.58	GEN-SET
82	10125.13	10218.20	GEN-SET

Point Table			
Point #	Northing	Easting	Description
83	10129.13	10207.30	TC
84	10073.13	10207.30	TC-BC
85	9986.88	10219.64	TC-EC
86	10001.17	10242.04	TCC-END CURB
87	9991.83	10234.66	TC-FL
88	10001.54	10317.08	TCC-END CURB
89	10001.46	10300.24	TBM
90	10138.87	10337.97	SIGN
91	10158.79	10277.81	TCC
92	10165.21	10277.82	TCC-BC
93	10195.21	10307.82	TCC-EC
94	10195.21	10366.65	TCC-BC
95	10126.26	10422.22	TC
96	10116.29	10415.55	TC
97	10152.19	10346.79	SIGN
98	10159.36	10348.12	SW
100	10034.53	10336.55	LIGHT
101	10030.76	10241.75	LIGHT

Point Table			
Point #	Northing	Easting	Description
108	10181.12	10242.30	TCC-EC
109	10100.39	10439.33	TC
110	10027.69	10321.33	SIGN
111	10011.51	10244.45	TCC-BC
112	10172.39	10386.62	TCC-BC
113	10180.39	10239.30	LIGHT
114	10124.13	10242.31	TCC-EC
115	10193.60	10326.76	LIGHT
117	10144.39	10348.66	TCC-RAMP
118	10134.36	10341.16	TCC-RAMP
119	10184.65	10384.28	TCC-MC
120	10214.70	10404.70	TCC-MC
121	10186.42	10286.60	TCC-MC
122	10215.32	10257.47	TCC-MC
123	9992.50	10324.51	TCC-FL
124	10059.51	10417.72	LIGHT
125	10009.88	10314.58	TCC-MC
126	10180.39	10422.59	LIGHT

Point Table			
Point #	Northing	Easting	Description
127	10002.56	10322.19	SIGN
128	10010.56	10322.19	SIGN
129	9979.80	10474.66	TP
130	9976.80	10474.69	TP
131	9976.56	10044.71	TP
132	9974.80	10474.68	TP
133	9973.56	10044.73	TP
134	10000.00	10000.00	SURVEY MON.
135	10763.41	9994.89	SURVEY MON.
136	10032.99	10396.50	SPILLWAY CL
137	10023.17	10411.20	SPILLWAY CL
138	10173.12	10436.67	SPILLWAY CL
139	10173.12	10419.00	SPILLWAY CL
140	10191.02	10243.87	SPILLWAY CL
141	10195.88	10225.79	SPILLWAY CL
142	10147.10	10205.81	BASIN BOT
143	10147.09	10200.87	BASIN BOT
144	10192.63	10205.81	BASIN BOT

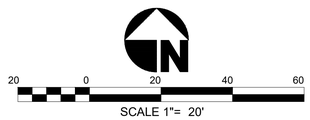
Point Table			
Point #	Northing	Easting	Description
145	10192.63	10225.11	BASIN BOT
146	10208.87	10230.46	BASIN BOT
147	10223.38	10239.75	BASIN BOT
148	10223.09	10200.33	BASIN BOT
149	10229.48	10254.85	BASIN TOP
150	10229.05	10194.29	BASIN TOP
151	10129.13	10194.97	SWALE FL
152	10069.49	10195.36	SWALE FL
153	3.17	8.25	TOE BERM
154	10006.39	10233.26	TOE BERM
155	10032.99	10233.30	SLAB COR
156	10032.13	10222.49	TOE BERM
157	10042.99	10215.82	TOE BERM
158	10033.00	10228.29	SLAB COR
159	10028.03	10233.10	SLAB COR
160	10005.79	10195.81	TOE BERM
161	10027.99	10228.30	SLAB COR
162	10123.25	10240.80	BLDG-COR

Point Table			
Point #	Northing	Easting	Description
163	10033.63	10324.44	RAMP
164	10036.38	10329.90	RAMP
165	10073.72	10315.27	END CURB

Curve Table			
Curve #	Length	Radius	Delta
C1	7.85	5.00	90.00
C2	7.85	5.00	90.00
C3	7.85	5.00	90.00
C4	7.72	5.00	88.42
C5	77.16	50.00	88.42
C6	47.12	30.00	89.99
C7	78.91	50.00	90.43
C8	34.23	20.32	96.52
C9	6.40	3.17	115.76
C10	15.71	10.00	90.00

Curve Table			
Curve #	Length	Radius	Delta
C11	15.56	10.00	89.16
C12	15.78	10.00	90.42
C13	15.78	10.00	90.43
C14	9.89	10.00	56.66
C15	8.12	5.17	90.00
C17	38.71	25.00	88.71
C18	54.22	25.00	124.26
C19	31.39	20.00	89.93
C20	24.54	25.00	56.24
C21	25.46	10.00	145.86

Curve Table			
Curve #	Length	Radius	Delta
C22	22.02	10.01	126.06
C24	15.73	10.00	90.11



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SHEET CONTENT:
HORIZONTAL CONTROL PLAN

C1.17 SHEET 17 OF 23 SHEETS
JOB NO. 542.088

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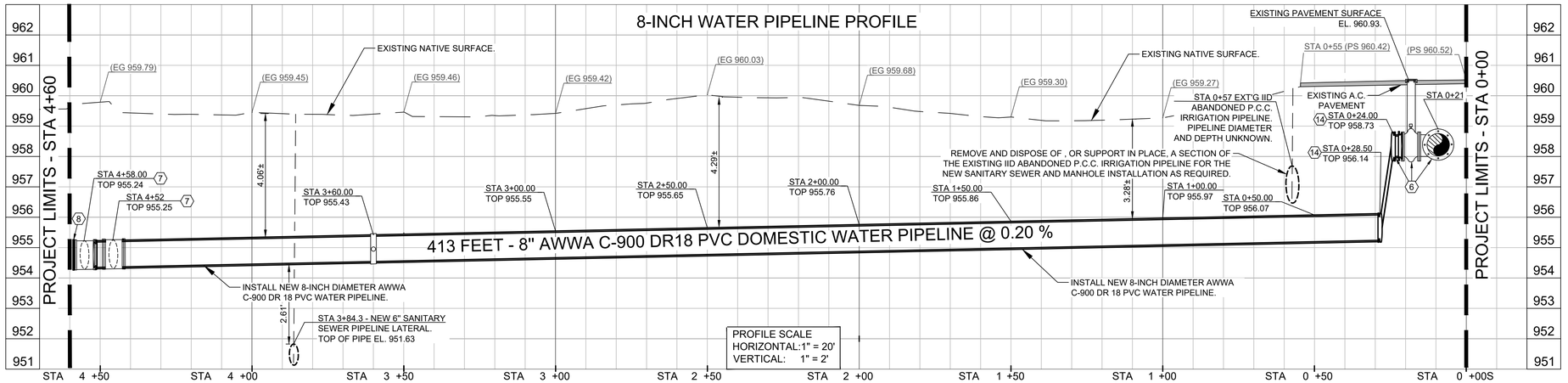
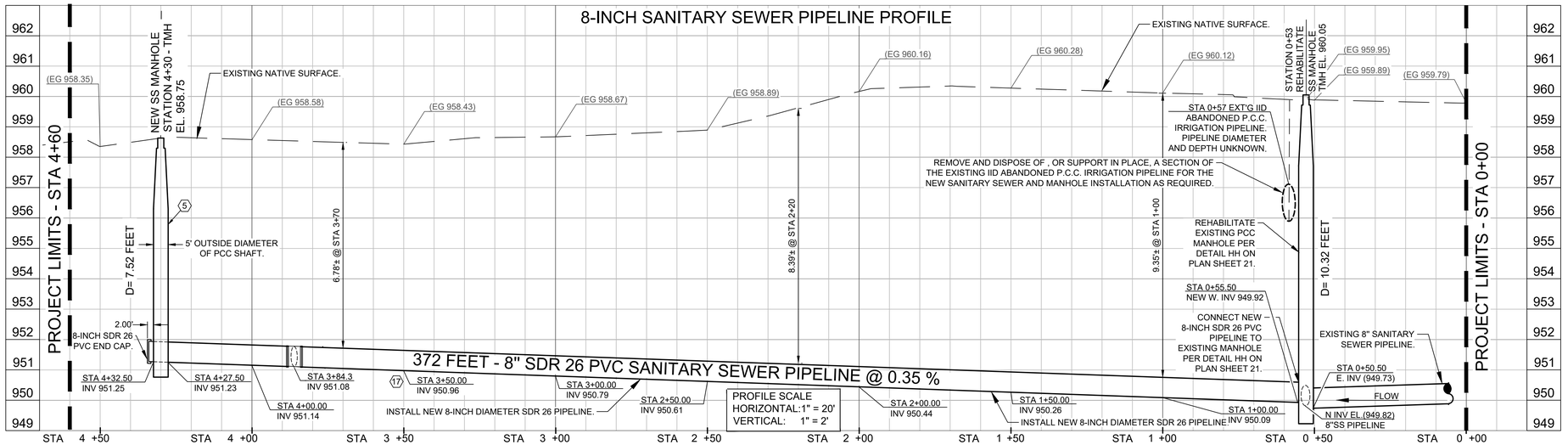
EXISTING KEYNOTES

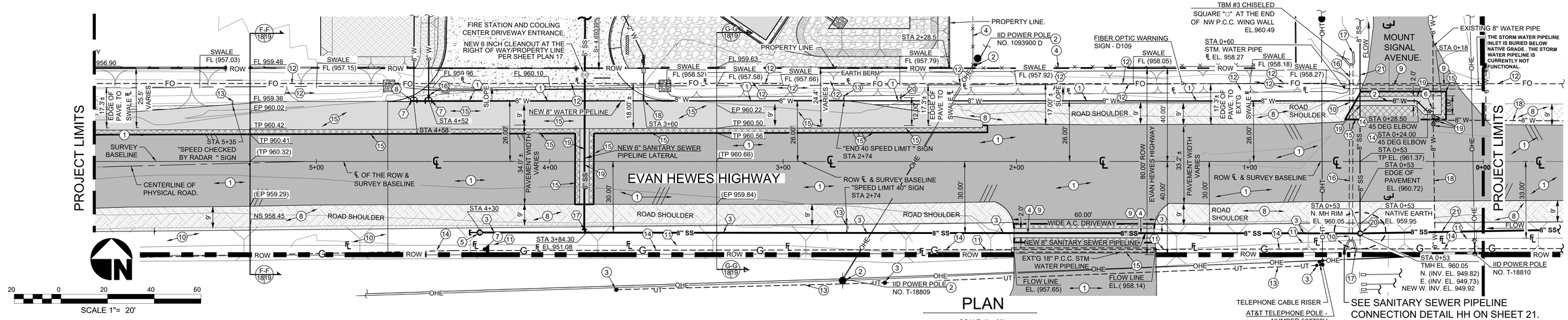
1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING 1-FOOT DIAMETER PVC TELEPHONE ENCLOSURE EXTENDING 2.5 FEET ABOVE THE EXISTING GRADE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING SIGN TO REMAIN.
7. EXISTING GAS MARKER TO REMAIN.
8. EXISTING ROAD SHOULDER TO REMAIN.
9. EXISTING 12 INCH DIAMETER PCC STORM WATER PIPELINE. THE PIPELINE IS FULL OF DIRT. THE DIRT SHALL BE REMOVED FROM THE PIPELINE BY OTHERS.
10. EXISTING NATIVE EARTH SWALE TO REMAIN.
11. EXISTING TELEPHONE POLE TO REMAIN.
12. EXISTING FIBER OPTIC LINE TO REMAIN.
13. EXISTING UNDERGROUND TELEPHONE LINE TO REMAIN.
14. EXISTING UNDERGROUND GAS PIPELINE TO REMAIN.
15. EXISTING 18 INCH DIAMETER PCC STORM WATER PIPELINE TO REMAIN.
16. EXISTING ABANDONED IID IRRIGATION PIPELINE TO REMAIN.
17. EXISTING ABANDONED IID PCC HEADWALLS TO REMAIN.
18. EXISTING 8 INCH WATER PIPELINE TO REMAIN.
19. EXISTING 8 INCH RESILIENT WEDGE GATE VALVES TO REMAIN.
20. EXISTING SANITARY SEWER MANHOLE TO REMAIN.
21. EXISTING 8-INCH SANITARY SEWER PIPELINE TO REMAIN.

CONSTRUCTION KEYNOTES

1. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE PER TRENCH DETAIL Z ON PLAN SHEET 20.
2. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE BENEATH THE EXISTING A.C. PAVEMENT SECTION PER TRENCH DETAIL AA ON PLAN SHEET 20.
3. INSTALL NEW 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE PER TRENCH DETAIL EE ON PLAN SHEET 20.
4. INSTALL NEW 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE BENEATH THE EXISTING A.C. PAVEMENT SECTION PER TRENCH DETAIL FF ON PLAN SHEET 20.
5. INSTALL NEW 4-FOOT PCC SANITARY SEWER MANHOLE PER DETAIL CC ON PLAN SHEET 20.
6. INSTALL NEW 8 INCH 316 STAINLESS STEEL HOT TAP, 8 INCH RESILIENT WEDGE GATE VALVE AND 8 INCH 45 DEGREE D.I. ELBOW WITH 8 INCH RESTRAINED JOINT FITTING PER DETAIL II ON PLAN SHEET 21.
7. INSTALL NEW 8 INCH X 8 INCH X 8 INCH DUCTILE IRON TEES. SEE UTILITY CONSTRUCTION KEYNOTES 4 AND 19 ON PLAN SHEET 6.
8. INSTALL 8 INCH DUCTILE IRON BLIND FLANGE.
9. A SHIELD, SHORING OR AN ALTERNATE METHOD SHALL BE USED FOR THE INSTALLATION OF THE NEW 8 INCH SANITARY SEWER PIPELINE IN THE AREA OF THE EXISTING 18 INCH PCC STORM WATER PIPELINE. THE EXISTING 18 INCH PCC STORM WATER PIPELINE SHALL BE SUPPORTED IN PLACE DURING THE INSTALLATION OF THE NEW 8 INCH SANITARY SEWER PIPELINE. IF THE STORMWATER PIPELINE IS DAMAGED OR IT'S HORIZONTAL OR VERTICAL POSITION IS ALTERED DURING THE NEW SANITARY SEWER PIPELINE INSTALLATION THEN THE CONTRACTOR SHALL REPAIR AND REPOSITION OR REPLACE THE STORM WATER PIPELINE TO THE SATISFACTION OF THE ICDPW AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF OR SUPPORT IN PLACE THE EXISTING IID ABANDONED IRRIGATION PIPELINE, AS REQUIRED, DURING THE INSTALLATION OF THE NEW WATER PIPELINE AND NEW SANITARY SEWER PIPELINE.
11. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER THE SWALE FLOW LINE DATA CHART ILLUSTRATED ON PLAN SHEET 19. THE EVAN HEWES ROAD SHOULDERS SHALL ALSO BE GRADED AND COMPACTED AFTER THE SANITARY SEWER PIPELINE INSTALLATION.
12. AFTER THE INSTALLATION OF THE DOMESTIC WATER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER GRADES ILLUSTRATED ON THIS PLAN SHEET. THE EVAN HEWES ROAD SHOULDERS SHALL ALSO BE GRADED AND COMPACTED AFTER THE DOMESTIC PIPELINE INSTALLATION.
13. SEE CONSTRUCTION KEYNOTES 4 ,5 AND 6 ON PLAN SHEET 19 REGARDING RELOCATION OF EXISTING SIGNS ALONG EVAN HEWES HIGHWAY.
14. INSTALL NEW 8 INCH 45 DEGREE DUCTILE IRON ELBOW. SEE DETAIL II ON PLAN SHEET 21.
15. SEE PLAN SHEET 5 FOR A.C. PAVEMENT INSTALLATION SECTION AND GRADING AT THE DRIVEWAY ENTRANCE AND A.C. TAPERS ALONG EVAN HEWES HIGHWAY.
16. INSTALL 8 INCH RESILIENT WEDGE GATE VALVE. SEE KEYNOTE 19 ON PLAN SHEET 6.
17. INSTALL A NEW 8 INCH X 8 INCH X 6 INCH SDR 26 PVC WYE FITTING ALONG THE NEW 8 INCH SDR 26 PVC SANITARY SEWER PIPELINE TO SERVICE THE FIRE STATION AND COOLING CENTER BUILDING.
18. INSTALL 2 INCH WATER SERVICE CONNECTION. SEE CONSTRUCTION KEYNOTE 1,2 AND 3 ON PLAN SHEET 6.
19. INSTALL 6" SDR 26 PVC SANITARY SEWER LATERAL AT A SLOPE OF 4.6933% FROM THE NEW 8" SDR 26 PVC SANITARY SEWER PIPELINE ALONG EVAN HEWES HIGHWAY TO THE POINT OF CONNECTION AT THE FIRE STATION AS ILLUSTRATED ON SHEET 6. INSTALL THE 6" SDR 26 PVC SANITARY SEWER LATERAL IN THE PAVED PORTION OF EVAN EVAN HEWES HIGHWAY PER TRENCH SECTION D-D ON PLAN SHEET 20 AND IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN ILLUSTRATED ON PLAN SHEET 22.
20. CONTRACTOR SHALL CONNECT THE NEW SANITARY SEWER PIPELINE TO THE EXISTING MANHOLE. THE CONTRACTOR SHALL REHABILITATE THE MANHOLE AS ILLUSTRATED ON DETAIL HH ON PLAN SHEET 21.







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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

EVAN HEWES HIGHWAY WATER AND SANITARY SEWER PLAN AND PROFILE SHEET

C2.01 SHEET 18 OF 23 SHEETS

JOB NO. 542.088

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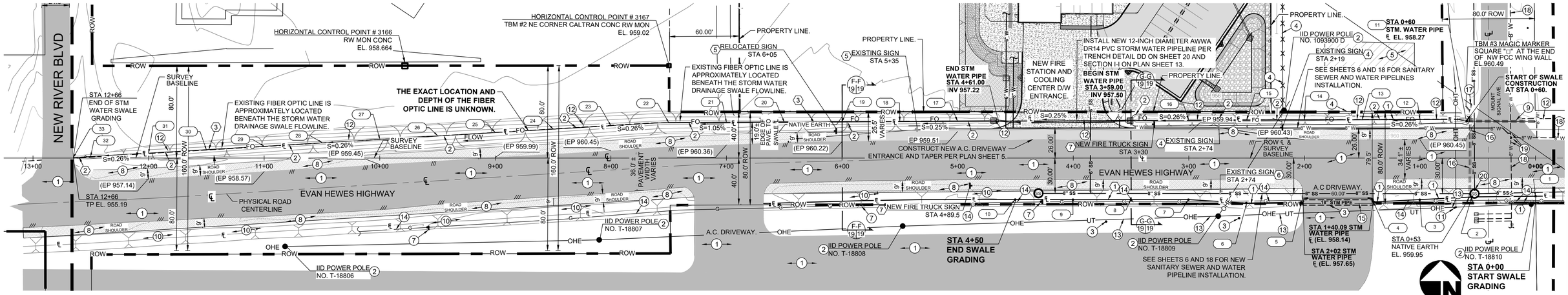
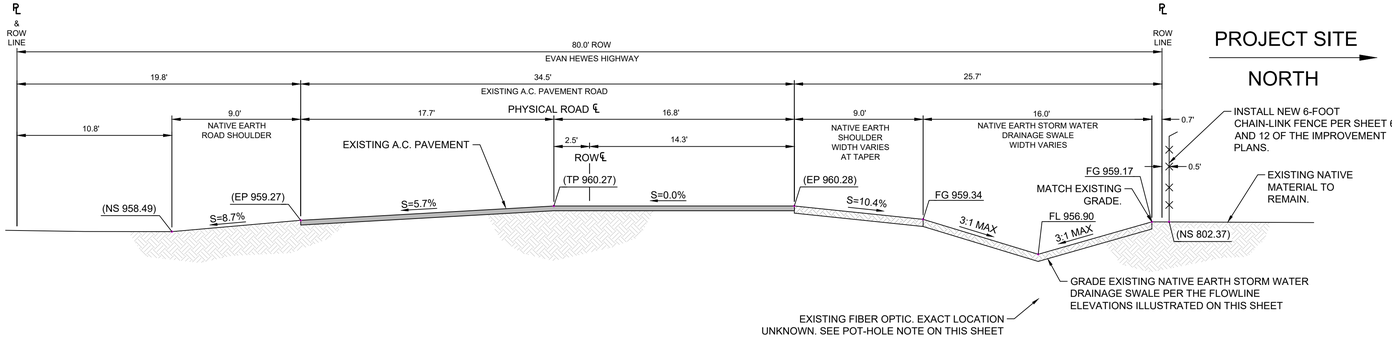


STORM DRAINAGE SWALE GRADING PLAN

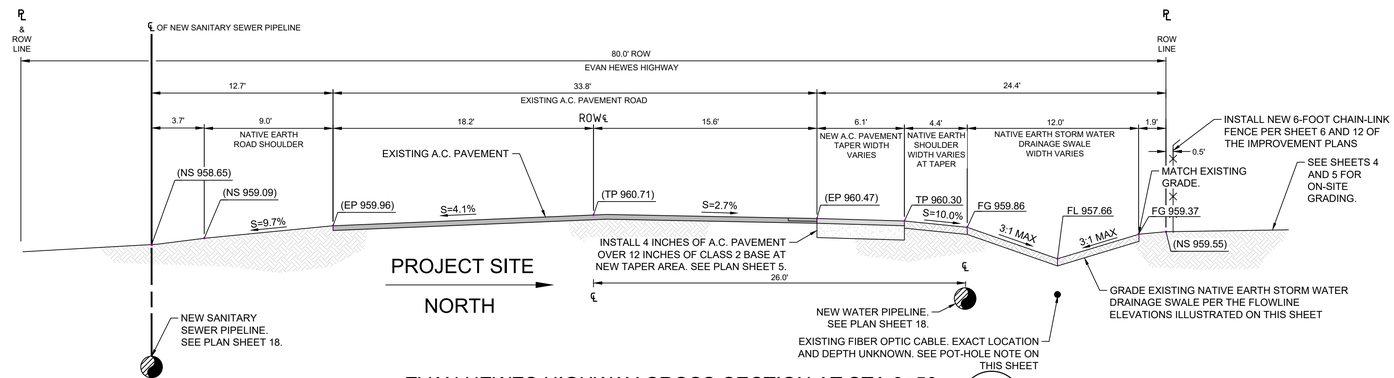
SCALE 1"= 40'

NOTE: AFTER THE NEW 8 INCH WATER PIPELINE IS CONSTRUCTED ON THE NORTH SIDE OF EVAN HEWES HIGHWAY AND THE NEW 8 INCH SANITARY SEWER PIPELINE IS CONSTRUCTED ON THE SOUTH SIDE OF EVAN HEWES HIGHWAY COMPLETE THE GRADING AND RE-ESTABLISHMENT OF THE STORM WATER SWALES AS ILLUSTRATED ON THIS PLAN SHEET.



EVAN HEWES HIGHWAY CROSS-SECTION AT STA 6+00 (F-F, 18-19 | 19)

SCALE: 1"=5'



EVAN HEWES HIGHWAY CROSS-SECTION AT STA 3+50 (G-G, 18-19 | 19)

SCALE: 1"=5'

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING 1-FOOT DIAMETER PVC TELEPHONE ENCLOSURE EXTENDING 2.5 FEET ABOVE THE EXISTING GRADE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING SIGN TO REMAIN.
7. EXISTING GAS MARKER TO REMAIN.
8. EXISTING ROAD SHOULDER TO REMAIN.
9. EXISTING 12 INCH DIAMETER PCC STORM WATER PIPELINE. THE PIPELINE IS FULL OF DIRT. THE DIRT SHALL BE REMOVED FROM THE PIPELINE BY OTHERS.
10. EXISTING NATIVE EARTH SWALE TO REMAIN.
11. EXISTING TELEPHONE POLE TO REMAIN.
12. EXISTING FIBER OPTIC LINE TO REMAIN.
13. EXISTING UNDERGROUND TELEPHONE LINE TO REMAIN.
14. EXISTING UNDERGROUND GAS PIPELINE TO REMAIN.
15. EXISTING 18 INCH DIAMETER PCC STORM WATER PIPELINE TO REMAIN.
16. EXISTING ABANDONED IID IRRIGATION PIPELINE TO REMAIN.
17. EXISTING ABANDONED IID PCC HEADWALLS TO REMAIN.
18. EXISTING 8 INCH WATER PIPELINE TO REMAIN.
19. EXISTING 8 INCH RESILIENT WEDGE GATE VALVES TO REMAIN.
20. EXISTING SANITARY SEWER MANHOLE TO REMAIN.
21. EXISTING 8-INCH SANITARY SEWER PIPELINE TO REMAIN.
22. SPEED CHECKED BY RADAR SIGN

CONSTRUCTION KEYNOTES

1. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER THE SWALE FLOW LINE DATA CHART ILLUSTRATED ON THIS PLAN SHEET. THE EVAN HEWES ROAD SHOULDERS SHALL BE GRADED AT 2 PERCENT SLOPE FROM THE EXISTING PAVEMENT EDGE TO THE TOP OF THE SWALE SLOPE AFTER THE SANITARY SEWER PIPELINE INSTALLATION. COMPACT THE NATIVE EARTH SHOULDERS SMOOTH AND APPLY WATER TO THE SHOULDERS.
2. AFTER THE INSTALLATION OF THE DOMESTIC WATER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER THE FLOWLINE DATA CHART ILLUSTRATED ON THIS PLAN SHEET. THE SWALE SIDE SLOPES SHALL BE CONSTRUCTED AT A MAXIMUM 3 TO 1 SLOPE. THE EVAN HEWES ROAD NATIVE EARTH SHOULDERS SHALL ALSO BE GRADED AT A 2% SLOPE FROM THE EXISTING PAVEMENT EDGE TO THE TOP OF THE SWALE SLOPE AFTER THE DOMESTIC WATER PIPELINE INSTALLATION. COMPACT THE NATIVE EARTH SHOULDERS SMOOTH AND APPLY WATER TO THE ROAD SHOULDERS.
3. CONTRACTOR SHALL REMOVE NATIVE EARTH FROM THE INTERIOR OF THE EXISTING 18" P.C.C. STORM WATER PIPELINE.
4. RELOCATE EXISTING "END 40MPH SPEED LIMIT" SIGN FROM STATION 2+74 TO STATION 2+19 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
5. RELOCATE "SPEED CHECKED BY RADAR" SIGN FROM STATION 5+35 TO STATION 6+05 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
6. COORDINATE REMOVAL AND TEMPORARY RELOCATION OF EXISTING "SPEED LIMIT 40MPH" SIGN WITH THE ICDPW OFFICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE AND GRADING OF THE SWALE AND ROAD SHOULDER, INSTALL THE SIGN IN A PERMANENT LOCATION PER THE ICDPW REQUIREMENTS.
7. INSTALL NEW SOLAR OPERATED "R247-E" FLASHING BEACONS CONTROLLED WITH "R838" WIRELESS BEACON CONTROLLER AS MANUFACTURED BY CARMANAH (WWW.CARAMANAH.COM), OR AN APPROVED EQUAL, AND PER THE SPECIAL CONDITION SECTION FOR OTHER RELATED SIGN COMPONENT REQUIREMENTS INCLUDED IN THE SPECIFICATIONS/PROJECT MANUAL. THE SOLAR PANEL SHALL CONSIST OF AN "R247-F" LARGE 30W INTEGRATED SOLAR ENGINE AS SPECIFIED AND RECOMMENDED BY CARMANAH MANUFACTURE OR AN APPROVED EQUAL. MOUNT A W11-8 (FIRE ENGINE SIGN) ABOVE THE FLASHING BEACON AND A CUSTOM SIGN STATING "PREPARE TO STOP WHEN FLASHING" BENEATH THE FLASHING BEACON ON A 6" X 6" WOOD POST PER CALTRANS STANDARD PLAN RS2 WITH BACK BRACE AND BREAKWAY FEATURE AND PER SECTION 82 OF 2018 CALTRANS STANDARD SPECIFICATIONS. ALTERNATELY, THE CONTRACTOR MAY INSTALL THE FLASHING BEACONS AND SIGNS MOUNTED ON TWO (2) 2" X 2" PERFORATED GALVANIZED STEEL SQUARE POSTS PROVIDED WITH BACK BRACES AND 5-FOOT X 2.5" SLEEVES TO SERVE AS A BREAKAWAY SYSTEM. INSTALL EACH SQUARE POST AND SLEEVE ON A18-INCH DIAMETER BY 3-FOOT DEEP CONCRETE PEDESTAL. THE BOTTOM OF THE LOWEST SIGN SHALL BE 5 FEET ABOVE THE FINISH GRADE AS ILLUSTRATED IN THE COUNTY OF IMPERIAL STANDARD DRAWING NO. 452. ALL SIGNS SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD STANDARDS.

SOUTH EVAN HEWES HIGHWAY SWALE FLOW LINE DATA CHART

NUMBER	STATION	DISTANCE FROM THE SURVEY BASELINE ALONG EVAN HEWES TO SOUTH FLOW LINE	SWALE FLOW LINE ELEVATION
1	0+00	33'	959.71
2	0+52.6	34'	959.86
3	1+00	36'	959.00
4	1+40.9	37.5'	958.14
5	2+02	37.5'	957.65
6	2+50	37'	957.60
7	3+00	37'	957.55
8	3+50	37'	957.50
9	4+00	37'	957.45
10	4+50	37'	957.40

POTHOLE NOTES

1. ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ON THE PLANS ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER AND SANITARY SEWER PIPELINES SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
2. IT WILL BE REQUIRED TO "POT-HOLE" THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE "POT-HOLING" ACTIVITIES WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 8-INCH SEWER AND WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLES, FIBER OPTIC, WATER, GAS, ELECTRICAL, COMMUNICATION, IRRIGATION AND SEWER UTILITIES. IT WILL BE REQUIRED TO POTHOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW 8-INCH SEWER AND WATER PIPELINES. THE CONSTRUCTION MANAGER WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER AND CONTRACTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE SEWER, WATER, AND STORMWATER PIPELINE GRADES AS ILLUSTRATED ON THE DRAWINGS. THE CONTRACTOR WILL PREPARE HIS/HER PROPOSAL BASED ON THE ASSUMPTION THAT UNDERGROUND UTILITIES WILL NOT BE REQUIRED TO BE RELOCATED BY THE CONTRACTOR.
3. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER AWWA C-900 DR 18, PRESSURE CLASS 235 PVC WATER PIPELINE TO THE DESIGN GRADES ILLUSTRATED ON PLAN AND PROFILE PLAN SHEET NUMBER 18.
4. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE TO THE DESIGN GRADES AS ILLUSTRATED ON PLAN AND PROFILE PLAN SHEET 18.
5. THE CONTRACTOR AND CONSTRUCTION MANAGER SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.

NORTH EVAN HEWES HIGHWAY SWALE FLOW LINE DATA CHART

NUMBER	STATION	DISTANCE FROM THE SURVEY BASELINE ALONG EVAN HEWES TO NORTH FLOW LINE	SWALE FLOW LINE ELEVATION
11	0+60	32	958.27
12	1+00	33.38'	958.17
13	1+50	33.19'	958.04
14	2+00	32.99'	957.91
15	2+50	32.79'	957.79
16	3+00	32.59	957.66
17	5+00	31.77'	957.15
18	5+50	31.56'	957.02
19	6+00	31.36'	956.89
20	6+50	31.15'	956.76
21	7+00	30.94'	956.64
22	7+50	30.74'	956.51
23	8+00	27.97'	956.38
24	8+50	25.01'	956.25
25	9+00	22.05'	956.13
26	9+50	19.09'	956.00
27	10+00	16.13'	955.87
28	10+50	13.17'	955.74
29	11+00	10.21'	955.61
30	11+50	7.50'	955.49
31	12+00	4.29'	955.36
32	12+50	1.33'	955.23
33	12+66	0.00'	955.19

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NO.	REVISIONS:	APPROVED	DATE

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 — R.C.E. NO.

07/08/2022 — DATE — 12/31/2022 — REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

STORM WATER DRAINAGE SWALE AND SECTIONS

C2.02 SHEET 19 OF 23 SHEETS

JOB NO. 542.088

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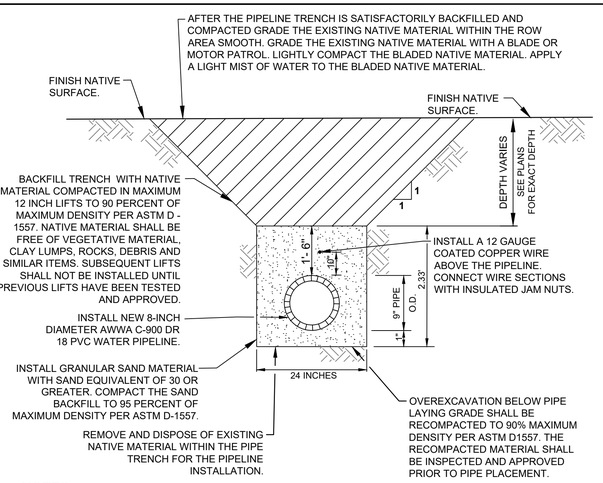


NOTES:

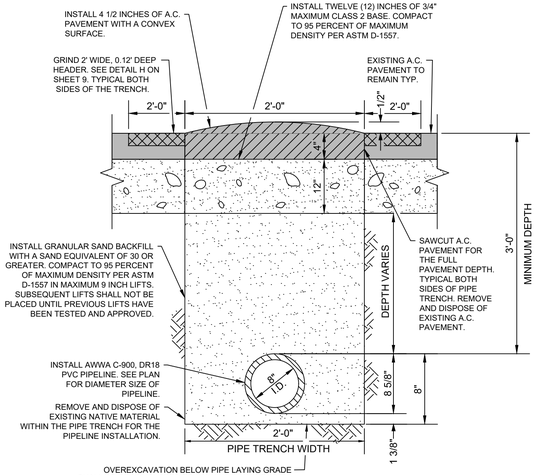
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA

   A) SHORING AS APPROVED BY THE ENGINEER.
   B) SLOPING BOTH TRENCH SIDES AT A 1:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

WATER PIPE TRENCH DETAIL IN NATIVE EARTH AREAS

NTS

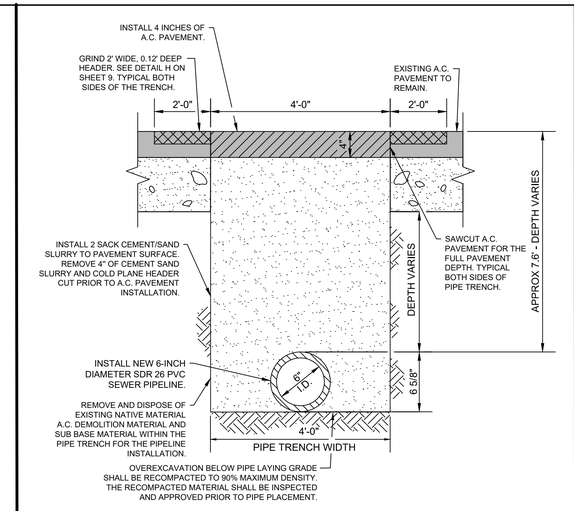
Z | 18 | 20



DOMESTIC WATER PIPELINE TRENCH ACROSS MOUNT SIGNAL AVENUE - DETAIL.

NTS

AA | 18 | 20



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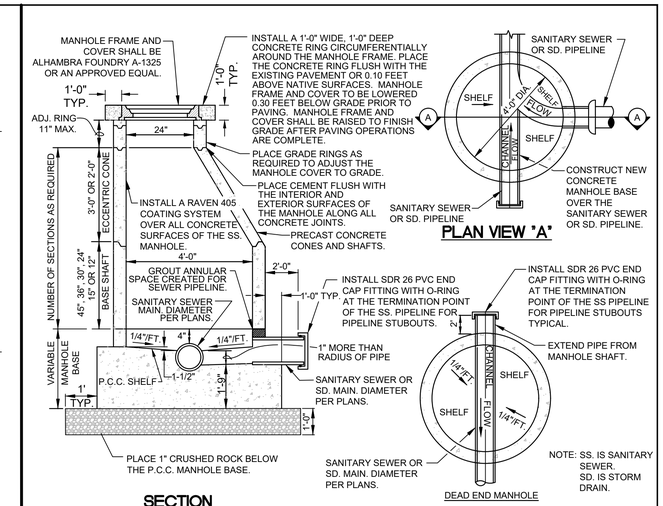
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA

   A) SHORING AS APPROVED BY THE ENGINEER.
   B) USE OF A STEEL SHIELD.
   C) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

SANITARY SEWER LATERAL PIPELINE TRENCH ACROSS EVAN HEWES HIGHWAY - DETAIL.

NTS

BB | 4,5 | 20



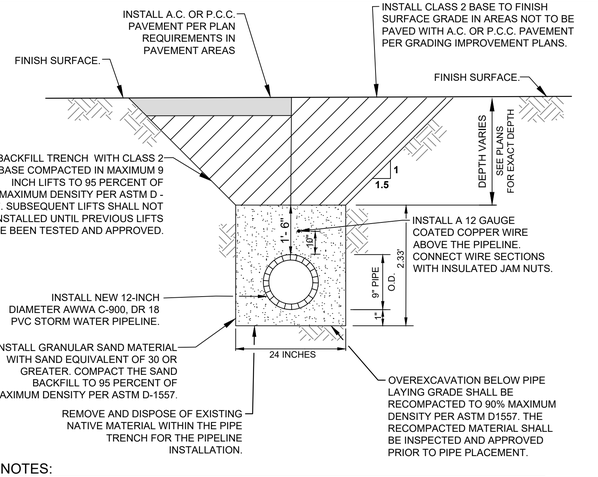
NOTES:

1. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C-478. THE CURING OF THE PRECAST UNITS SHALL CONFORM TO SECTION 207-2.7 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. THE MINIMUM WALL THICKNESS SHALL BE 6 INCHES.
2. THE CONCRETE SHELF OF THE MANHOLE SHALL BE SLOPED AT 1/4 INCH PER FOOT. THE SHELF SHALL RECEIVE A DOUBLE TROWEL FINISH. THE CONCRETE UTILIZED FOR THE CONCRETE BASE AND MANHOLE COLLAR SHALL CONTAIN 6 1/2 SACKS OF CONCRETE PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 P.S.I. AFTER 28 DAYS CURING.
3. WHENEVER PRACTICABLE, THE FRAME AND COVER SHALL BE PLACED DIRECTLY OVER THE INLET OF THE STRUCTURE EXCEPT AS OTHERWISE NOTED ON THE PLANS.
4. MANHOLE SHAFTS, CONES AND GRADE RINGS SHALL BE SET PLUMB.
5. PLACE CEMENT GROUT IN THE OPENINGS BETWEEN PRECAST MANHOLE UNITS AND GRADE RINGS FLUSH WITH THE INTERIOR AND EXTERIOR SURFACES PRIOR TO APPLYING THE ZEBRON COATING OR COMPLETING BACKFILL WORK AROUND THE EXTERIOR OF THE MANHOLE.
6. THE PIPELINE INVERTS SHALL DROP 0.10 FEET BETWEEN INLET AND OUTLET PIPELINES AT 90 DEGREE ANGLES.
7. VERTICAL WALL OF CONE SHALL BE OPPOSITE OUTLET OF MANHOLE.

SANITARY SEWER OR STORM WATER MANHOLE DETAIL

NTS

CC | 18 | 20



NOTES:

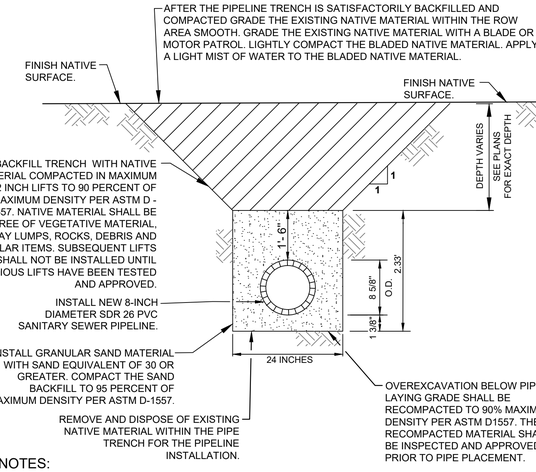
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA

   A) SHORING AS APPROVED BY THE ENGINEER.
   B) SLOPING BOTH TRENCH SIDES AT A 1.5:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1.5 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

STORM WATER PIPE TRENCH DETAIL

NTS

DD | 4,5,20 | 20



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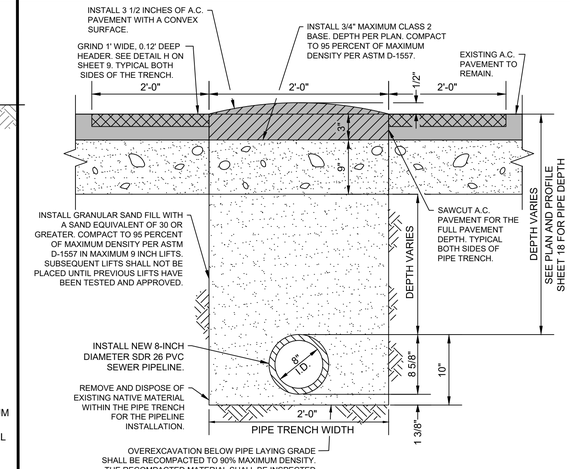
SANITARY SEWER PIPE TRENCH DETAIL

NTS

EE | 4 | 20



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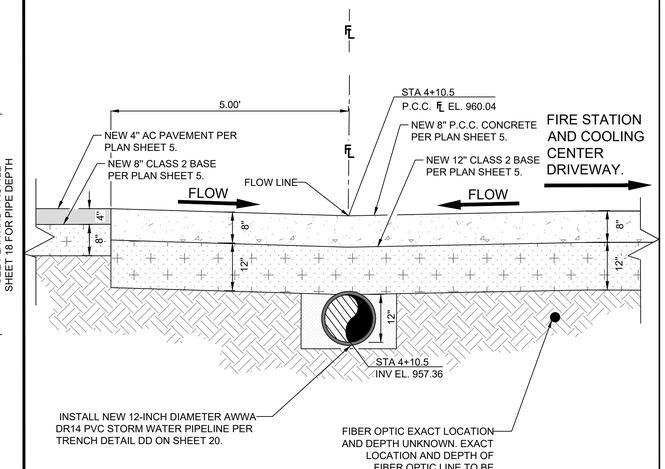
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

TYPICAL SEWER PIPE TRENCH DETAIL IN PAVED AREAS

NTS

FF | 18 | 20



OFF-SITE STORM WATER PIPELINE CROSS-SECTION

NTS

H-H | 5 | 20

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NO.	REVISIONS:	APPROVED	DATE

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

WATER AND SEWER DETAIL SHEET

C2.03 SHEET 20 OF 23 SHEETS

JOB NO. 542.088

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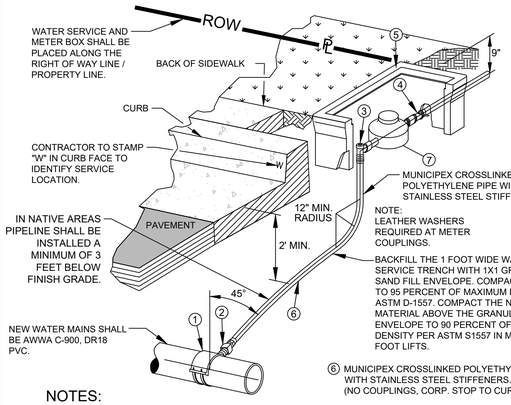
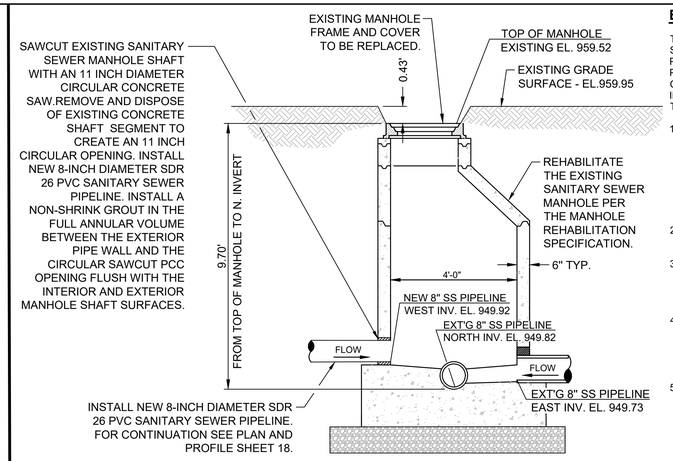


NOTES:

1. JAMES JONES MODEL NUMBER J-996 BRONZE DOUBLE STRAP SERVICE SADDLE WITH BRASS HARDWARE TO ACCOMMODATE A 2 INCH DIAMETER PIPELINE.
2. 2 INCH DIAMETER JAMES JONES MODEL NUMBER J-1930 CORPORATION STOP WITH BRASS COMPRESSION CONNECTION FITTING AND BRASS HARDWARE.
3. 2 INCH DIAMETER JAMES JONES MODEL NUMBER J-4205 ANGLE METER STOP WITH LOCK WING. PROVIDE A 2 INCH BRASS COMPRESSION COUPLING ON THE UPSTREAM SIDE OF THE ANGLE METER STOP WITH BRASS HARDWARE.
4. CUSTOMER'S BRASS BALL VALVE OR STAINLESS STEEL BALL VALVE WITH HAND OPERATOR.
5. INSTALL A J&R CONCRETE PRODUCTS 17" X 30" POLYMER-WATER METER BOX SERIES NO. W6B WITH 1 PIECE POLYMER COVER AND QUICK READ PORT.
6. MUNICIPEX CROSSLINKED POLYETHYLENE PIPE WITH STAINLESS STEEL STIFFENERS. (NO COUPLINGS, CORP. STOP TO CURB STOP).
7. INSTALL A 2" KANSTRUP FLOW IQ 3200 FLOW METER. MAXIMUM FLOW RATE SHALL BE 160 GPM. THE METER SHALL BE EQUIPPED WITH A DUAL RADIO BAND AMI FIXED NETWORK PER SCWD REQUIREMENT. PROVIDE FLANGED X POLYETHYLENE PIPE 316 SS OR BRASS COUPLING ADAPTERS AS REQUIRED.
8. THE REQUIRED SERVICE MUST BE APPROVED BY THE SCWD.
9. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET OR ALLEY FROM THE WATER MAIN TO THE METER ENCLOSURE, WHEREVER POSSIBLE.
10. THE METER LOCATION SHALL BE AS ILLUSTRATED ON THE PLANS AND THIS DETAIL UNLESS OTHERWISE SPECIFIED BY THE SCWD.

2" WATER SERVICE CONNECTION - DETAIL (GG)

NTS — 3,6,16 | 21



EXISTING MANHOLE SECTION VIEW
NTS

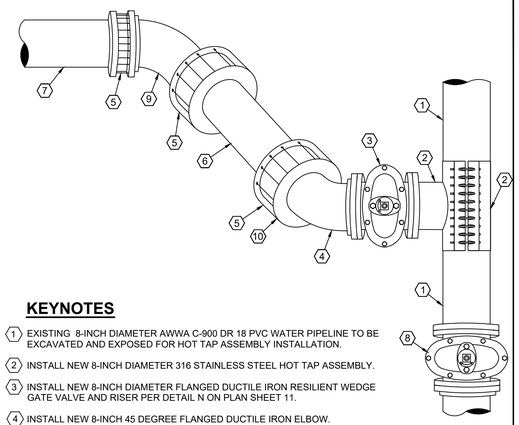
EXISTING MANHOLE REHABILITATION SPECIFICATION

THE EXISTING MANHOLE IS IN POOR CONDITION. THE MANHOLE SHALL BE REHABILITATED. THE INTERIOR MANHOLE SHAFT SIDEWALLS, CONE AND GRADE RINGS SHALL BE HYDRO-BLASTED AND THE WALL SURFACES REPAIRED PRIOR TO THE INSTALLATION OF A HIGH STRENGTH MORTAR TO RE-BUILD THE MANHOLE SIDEWALLS. ADDITIONAL PCC GRADE RINGS SHALL BE ADDED AT THE MANHOLE ENTRANCE OPENING TO ELEVATE THE MANHOLE RING AND COVER TO THE EXISTING NATIVE GRADE. A NEW MANHOLE FRAME AND COVER WITH A CONCRETE RING SHALL BE INSTALLED AT THE TOP OF THE REHABILITATED MANHOLE. NEW PCC FLOOR SHELVES SHALL BE CONSTRUCTED AT THE BOTTOM OF THE MANHOLE. FOLLOWING IS THE LIST OF MANHOLE REHABILITATION ITEMS TO BE COMPLETED:

1. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL ENSURE THAT THE EXISTING WASTEWATER FLOW THROUGH THE MANHOLE WILL NOT BE IMPEDED. THE CONTRACTOR SHALL FURNISH, INSTALL, AND REMOVE ANY NECESSARY DEBRIS CONTAINMENT DEVICES WHILE MAINTAINING THE WASTEWATER FLOW THROUGH THE MANHOLE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS COLLECTED FROM THE MANHOLE REHABILITATION EFFORT. THE CONTRACTOR SHALL ALSO PROVIDE PROPER EQUIPMENT TO COMPLY WITH CONFINED WORK SPACE WORK AREA AND HAZARDOUS ENVIRONMENT CONDITIONS. THE CONTRACTOR'S PERSONNEL SHALL BE TRAINED TO WORK IN CONFINED WORK SPACE AND ENVIRONMENTALLY HAZARDOUS AREAS.
2. THE CONTRACTOR SHALL ERECT BARRICADES AROUND THE MANHOLE TO INSURE PEDESTRIANS OR VEHICULAR TRAFFIC DOES NOT ENTER THE MANHOLE REHABILITATION AREA.
3. THE EXISTING INTERIOR CONCRETE MANHOLE SHAFT, CONE AND GRADE RING SURFACES SHALL BE HYDRO-BLASTED AT A MINIMUM 5,000 PSI PRESSURE OR AN APPROVED METHOD RECOMMENDED BY THE LINING SYSTEM MANUFACTURER AND APPROVED BY THE ENGINEER. A PNEUMATIC CHISEL MAY BE USED TO REMOVE DETERIORATED CONCRETE FROM ISOLATED AREAS WITHIN THE MANHOLE INTERIOR.
4. AFTER THE INTERIOR MANHOLE WALL SURFACES ARE CLEANED LOCALIZED REPAIRS SHALL BE PERFORMED USING RAPID SETTING MORTARS COMPATIBLE WITH THE LINING SYSTEM. REPAIR MORTARS SHALL BE USED TO FILL SURFACE IRREGULARITIES, VOIDS AND DETERIORATED SURFACES AND TO REPAIR THE UNDERLYING MANHOLE STRUCTURE TO A UNIFORM SURFACE. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED WHEN PERFORMING REPAIRS, MATERIAL HANDLING, MIXING INSTALLATION AND CURING.
5. A HIGH STRENGTH MORTAR SHALL BE APPLIED TO THE INTERIOR SURFACES OF THE MANHOLE AFTER THE ABOVE ITEMS HAVE BEEN SATISFACTORILY COMPLETED. THE HIGH STRENGTH MORTAR SHALL BE APPLIED IN CONTINUOUS LIFTS OF ½ INCH MINIMUM THICKNESS. THE HIGH STRENGTH MORTAR SHALL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATION AND CREATE A SMOOTH AND STRUCTURALLY SOUND INTERIOR SURFACE. THE HIGH STRENGTH MORTAR SHALL BE CURED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
6. A RAVEN 405 EPOXY COATING SYSTEM, OR AN APPROVED EQUAL, IS TO BE APPLIED TO THE INTERIOR SURFACE OF THE MANHOLE AFTER ITEM 5 ABOVE HAS BEEN SATISFACTORILY COMPLETED. A PRIMER RECOMMENDED BY THE MANUFACTURER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE EPOXY COATING SYSTEM. THE MINIMUM THICKNESS OF THE EPOXY COATING SYSTEM SHALL BE 125 MILS. DURING THE EPOXY COATING SYSTEM INSTALLATION, A MIL GAUGE SHALL BE USED TO VERIFY THAT THE MINIMUM THICKNESS OF THE LINING MEETS AND/OR EXCEEDS THE MINIMUM SPECIFIED THICKNESS.
7. AFTER THE LINING SYSTEM IS INSTALLED THE LINING SHALL BE SPARK TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION 2012 SECTION 500-2.4.2 AND REPAIRED PER SECTION 500-2.4.5.
8. A NEW CONCRETE BASE INCLUDING CHANNELS AND SHELVES SHALL BE CONSTRUCTED AT THE BOTTOM OF THE MANHOLE. THE CONCRETE SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
9. INSTALL A NEW CONCRETE MANHOLE COVER AND CONCRETE RING AROUND THE MANHOLE COVER 0.10 FEET ABOVE THE EXISTING NATIVE GRADE SURFACE IN ACCORDANCE WITH THE NEW 4 FOOT PCC MANHOLE DETAIL FF ON THIS PLAN SHEET 20.

SANITARY SEWER PIPELINE CONNECTION AND EXISTING MANHOLE REHABILITATION DETAIL (HH)

NTS — 18 | 21

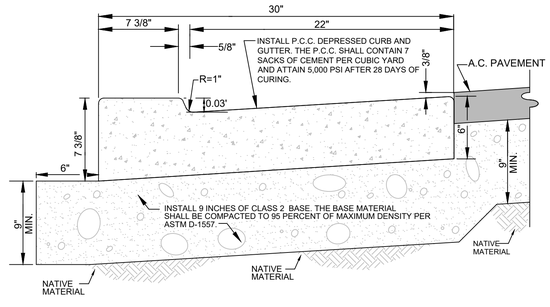


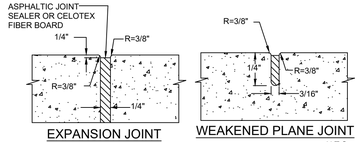
KEYNOTES

1. EXISTING 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE TO BE EXCAVATED AND EXPOSED FOR HOT TAP ASSEMBLY INSTALLATION.
2. INSTALL NEW 8-INCH DIAMETER 316 STAINLESS STEEL HOT TAP ASSEMBLY.
3. INSTALL NEW 8-INCH DIAMETER FLANGED DUCTILE IRON RESILIENT WEDGE GATE VALVE AND RISER PER DETAIL N ON PLAN SHEET 11.
4. INSTALL NEW 8-INCH 45 DEGREE FLANGED DUCTILE IRON ELBOW.
5. INSTALL NEW 8- INCH DUCTILE IRON RESTRAINED JOINT FITTING.
6. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE.
7. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE. FOR CONTINUATION SEE PLAN AND PROFILE SHEET 18.
8. EXISTING 8-INCH RESILIENT WEDGE GATE VALVE TO REMAIN.
9. INSTALL NEW 8-INCH 45 DEGREE MECHANICAL JOINT DUCTILE IRON ELBOW.
10. INSTALL NEW 8-INCH DUCTILE IRON FLANGED COUPLING ADAPTER.

WATER PIPELINE CONNECTION DETAIL (II)

NTS — 18 | 21





EXPANSION JOINT
N.T.S.

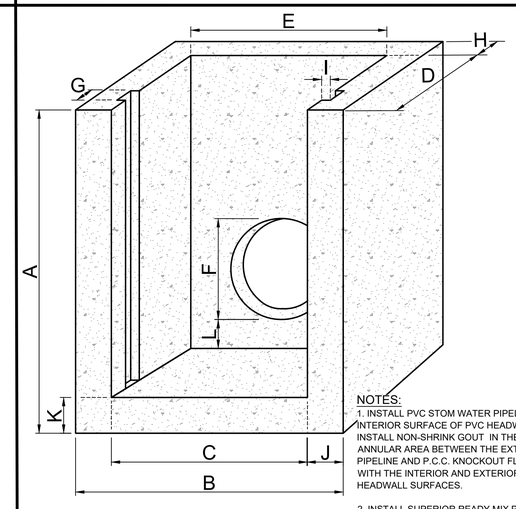
WEAKENED PLANE JOINT
N.T.S.

NOTES FOR CURB AND GUTTER AND SIDEWALK

1. PLACE WEAKENED PLANE JOINTS A MINIMUM OF 12-FEET ALONG THE DEPRESSED P.C.C. CURB AND GUTTER. MATCH WEAKEND PLANE JOINTS OF ADJOINING P.C.C. INFRASTRUCTURE.
2. THE GUTTER SURFACE CURB FACE AND TOP OF CURB SHALL RECIEVE A DOUBLE TROWEL FINISH.
3. THE CURB AND GUTTER EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN ± .01 FEET WITH A MAXIMUM VARIANCE OF 0.02 FEET FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FOOT SECTION. THE HORIZONTAL CURB AND GUTTER EDGES SHALL NOT VARY MORE THAN 1/4 INCH IN ANY GIVEN 100 FOOT SECTION.
4. THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.

DEPRESSED P.C.C. CURB AND GUTTER DETAIL (JJ)

NTS — 10,14 | 21

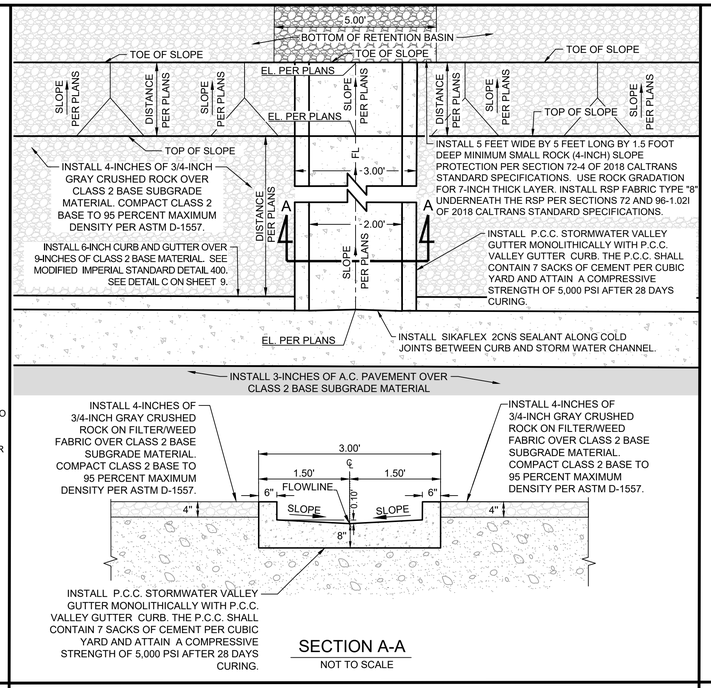


NOTES:
1. INSTALL PVC STOM WATER PIPELINE TO INTERIOR SURFACE OF PVC HEADWALL. INSTALL NON-SHRINK GOUT IN THE ANNULAR AREA BETWEEN THE EXTERIOR PIPELINE AND P.C.C. KNOCKOUT FLUSH WITH THE INTERIOR AND EXTERIOR HEADWALL SURFACES.
2. INSTALL SUPERIOR READY MIX P.C.C. HEADWALL STRUCTURE.
3. INSTALL GRADE BOARD TO WEIR ELEVATION NOTED ON SECTION I-I.

DIMENSIONS												
	A	B	C	D	E	F	G	H	I	J	K	L
3X15	36"	30"	24"	15 1/2"	21"	15 1/2"	1"	3 1/2"	1"	3"	2"	2"
3X20	39"	30"	24"	17"	22 1/2"	20"	1"	3"	1"	3"	3"	3 1/2"
5X18	64"	34"	26"	23"	19"	18"	---	4"	---	4"	3 1/2"	2 1/2"
5X30	68"	54"	44"	23"	36"	30"	---	4"	---	4"	3 1/2"	3"

P.C.C. HEADWALL DETAIL (KK)

NTS — 4,5,21 | 21



SECTION A-A
NOT TO SCALE

P.C.C. CURB INLET STORM WATER CHANNEL - DETAIL (LL)

NTS — 4,5 | 21

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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
WATER, SEWER AND DEPRESSED CURB & GUTTER DETAIL SHEET

C2.04 SHEET 21 OF 23 SHEETS
JOB NO. 542.088

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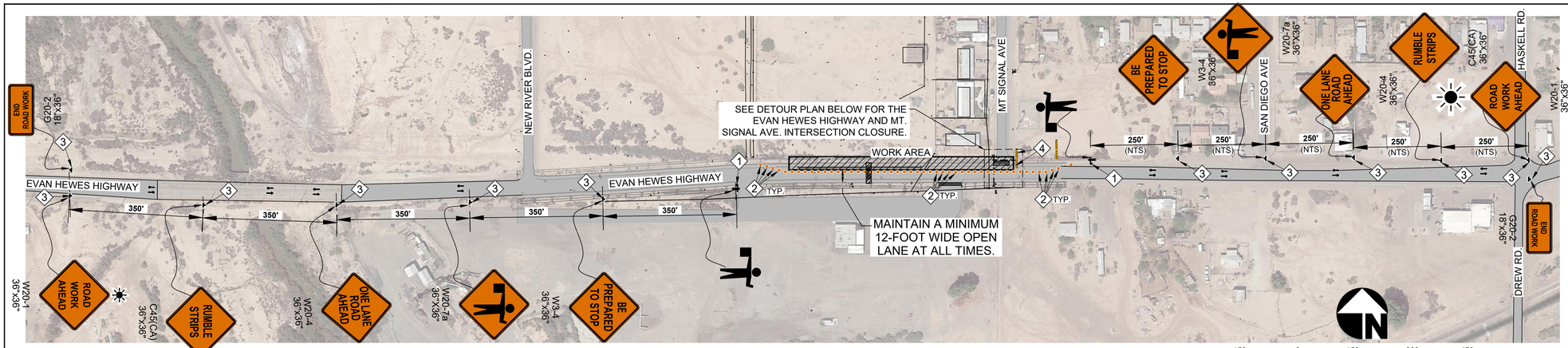
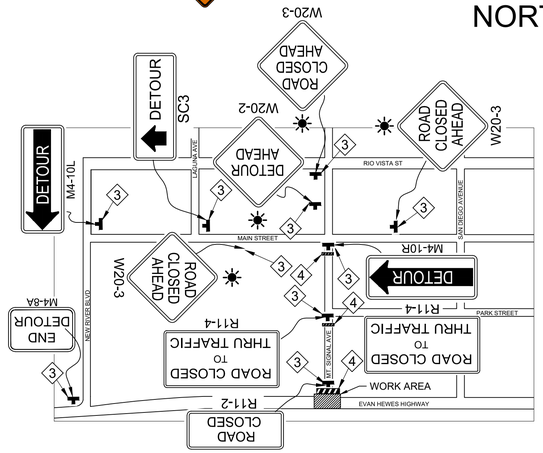


NORTH/SOUTH HALF ROADWAY CLOSURE ALONG EVAN HEWES HIGHWAY WITH FLAGGERS - CASE 1 & CASE 2 (TO BE MIRRORED FOR THE EASTBOUND CLOSURE*)

***NOTE: TRAFFIC CONTROL DEVICES ILLUSTRATED ON THIS SHEET SHIFTS TRAFFIC TO ALLOW THE CONTRACTOR TO HAVE THE WORK ZONE ON THE NORTH SIDE OF EVAN HEWES HIGHWAY. THE CONTRACTOR SHALL USE THE SAME MIRRORED TRAFFIC CONTROL TO ALLOW THE WORK ZONE TO BE ON THE SOUTH SIDE OF EVAN HEWES HIGHWAY. THE TRAFFIC CONTROL SHALL COMPLY WITH CALTRANS STANDARD PLAN T9 (TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES), T10 (TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS) AND T13 (TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS).**

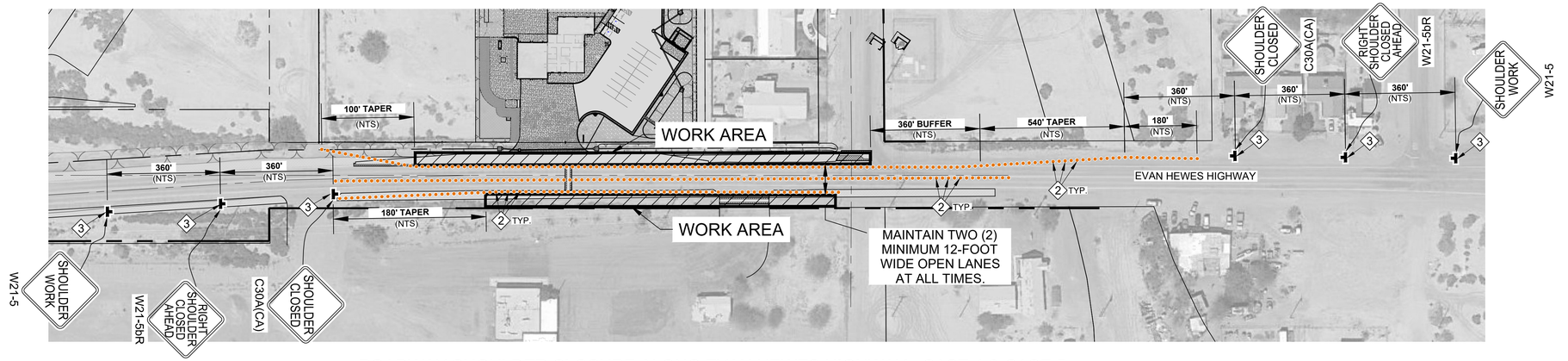


DETOUR PLAN FOR THE EVAN HEWES HIGHWAY AND MT. SIGNAL AVE. INTERSECTION CLOSURE - CASE 3

NOT TO SCALE

TRAFFIC CONTROL CASE NO.	PROPOSED SCOPE OF WORK	TRAFFIC CONTROL PLAN TO BE IMPLEMENTED
CASE 1**	NORTH HALF OF 6" SS PIPELINE LATERAL TRENCH AND PAVING OPERATION ACROSS EVAN HEWES HIGHWAY	NORTH HALF ROADWAY CLOSURE ALONG EVAN HEWES HIGHWAY WITH FLAGGERS
CASE 2**	SOUTH HALF OF 6" SS PIPELINE LATERAL TRENCH AND PAVING OPERATION ACROSS EVAN HEWES HIGHWAY	SOUTH HALF ROADWAY CLOSURE ALONG EVAN HEWES HIGHWAY WITH FLAGGERS
CASE 3	8" WATER PIPELINE ACROSS MT. SIGNAL AVENUE	DETOUR PLAN FOR THE EVAN HEWES HIGHWAY AND MT. SIGNAL AVENUE INTERSECTION CLOSURE
CASE 4	8" WATER PIPELINE, 6" SS PIPELINE LATERAL, AND GAP PAVEMENT ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY	ROADWAY SHOULDER CLOSURE ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY WITH NARROWED TWO (2) 12-FOOT LANES SEPARATED WITH TRAFFIC CONES
CASE 5	8" SS MAIN TRENCH AND PAVEMENT REPAIR OF A PRIVATE DRIVEWAY ALONG THE SOUTH SIDE OF EVAN HEWES HIGHWAY	ROADWAY SHOULDER CLOSURE ALONG THE SOUTH SIDE OF EVAN HEWES HIGHWAY WITH NARROWED TWO (2) 12-FOOT LANES WITH TRAFFIC CONES

** THE CONTRACTOR SHALL MINIMIZE THE DURATION OF THE LANE CLOSURES ALONG EVAN HEWES HIGHWAY.



ROADWAY SHOULDER CLOSURE ALONG EVAN HEWES HIGHWAY - CASE 4 & CASE 5

NOT TO SCALE

TRAFFIC CONTROL LEGEND

ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE	●
2.	DIRECTION OF TRAFFIC	→
3.	TYPE III BARRICADE	
4.	WARNING/REGULATORY SIGN	
5.	WORK AREA	
6.	FLASHING BEACON	

TRAFFIC CONTROL KEYNOTES

1. FLAGGER.
2. INSTALL REFLECTIVE TRAFFIC CONES/DELINEATERS AT 15 FEET ON CENTER ALONG THE TAPER. TYPICAL.
3. INSTALL WARNING/REGULATORY SIGN AS ILLUSTRATED ON THE PLAN.
4. INSTALL TYPE III BARRICADE.

GENERAL TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL DEVICES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CA MUTCD SUPPLEMENT, AND THE LATEST CALTRANS STANDARD PLANS UNLESS SPECIFIED OTHERWISE.
2. TRAFFIC CONTROL SHOWN HEREIN IS THE MINIMUM REQUIRED. ADDITIONAL TRAFFIC CONTROL MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REPRESENTATIVE, OR THE RESIDENT ENGINEER. THESE CHANGES MAY BE DONE IN THE FIELD.
3. TRAFFIC CONTROL DEVICES SHOWN ON PLANS ARE LOCATED APPROXIMATELY AND SHALL BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITIONS. ALL SUCH CHANGES MADE DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CA MUTCD, CA MUTCD SUPPLEMENT, IMPERIAL COUNTY STANDARDS AND SPECIFICATIONS.
4. CONTRACTOR SHALL INSPECT TRAFFIC CONTROL AT THE BEGINNING AND AT THE END OF EACH WORKING DAY TO ENSURE COMPLIANCE WITH THESE PLANS, THROUGHOUT EACH WORK PERIOD, CONTRACTOR SHALL INSPECT TRAFFIC CONTROL (SIGNS, BARRICADES AND DELINEATORS) AND MAINTAIN SAME IN ACCORDANCE WITH TRAFFIC CONTROL PLANS.
5. THE CONTRACTOR SHALL MAINTAIN THE INGRESS AND EGRESS OF THE RESIDENTIAL AND BUSINESS ACCESS AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS RAMP(S) OR TRAVEL WAYS, IF NECESSARY.
6. ALL SIGNS SHALL BE HIGH INTENSITY REFLECTIVE. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTIVE, FLASHING LIGHTS ARE OPTIONAL.
7. THE INTENSITY AND DISTRIBUTION OF LIGHT FROM EACH ILLUMINATED SIGNAL LENS SHOULD CONFORM TO THE CURRENT "STANDARDS FOR VEHICLE TRAFFIC CONTROL SIGNAL HEADS" AND "TRAFFIC SIGNAL LAMPS" (SEE SECTION 1A.11 OF LATEST VERSION OF CA MUTCD), IF A SIGNAL INDICATION IS OPERATED IN THE FLASHING MODE FOR NIGHTTIME OPERATION AND THE SIGNAL INDICATION IS SO BRIGHT AS TO CAUSE EXCESSIVE GLARE, SOME FORM OF AUTOMATIC DIMMING SHOULD BE USED TO REDUCE THE BRILLIANCE OF THE SIGNAL INDICATION.
8. REFER TO THE LATEST REVISION OF CA MUTCD REGARDING THE NOTES FOR EACH TYPICAL APPLICATION CALLED OUT ON THIS PLAN.
9. ~~CONTRACTOR SHALL INSTALL ADA COMPLIANT TEMPORARY RAMPS BETWEEN THE EDGE OF THE EXISTING PAVEMENT, NATIVE SURFACE AND EXCAVATED SURFACE AT THE END OF EACH WORK DAY.~~
10. CONTRACTOR SHALL INSTALL CLASS 2 BASE UP TO FINISHED GRADE ELEVATION AFTER SAWCUT AND REMOVAL OF EXISTING A.C. PAVEMENT SECTION PRIOR TO OPENING THE LANE TO TRAFFIC. CONTRACTOR SHALL PLACE CLASS 2 BASE FROM THE EXISTING EDGE OF PAVEMENT TO THE EDGE OF THE SAWCUT AREA AT A SLOPE NO STEEPER THAN 6:1.
11. NO STREET PARKING SHALL BE ALLOWED ALONG NORTH SIDE OR SOUTH SIDE OF EVAN HEWES HIGHWAY, WITHIN THE CONSTRUCTION ZONES DURING THE PROJECT CONSTRUCTION PERIOD. CONTRACTOR SHALL INSTALL NO PARKING SIGNS (R8-3A) AT ALL REQUIRED AREAS AT LEAST ONE WEEK PRIOR TO BEGINNING OF CONSTRUCTION .
12. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ACCORDING TO 2018 REVISED CALTRANS STANDARD PLAN RSP T13. PROVIDE CROSSWALK CLOSURES AND PEDESTRIAN DETOURS IF REQUIRED TO PROVIDE TEMPORARY PEDESTRIAN ACCESS AT ALL INTERSECTIONS AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. IF NECESSARY CONTRACTOR SHALL PROVIDE FLAG PERSONNEL FOR ADDITIONAL TRAFFIC CONTROL AS NEEDED.
13. ALL UTILITY TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY OR A STEEL PLATE SHALL BE PLACED OVER ALL OPEN TRENCH. IF A PORTION OF THE CONSTRUCTION AREA MUST REMAIN OPEN AT THE END OF EACH WORK DAY, EACH EXPOSED SECTION MUST BE COMPLETELY COVERED WITH STEEL TRENCH PLATES OR SURROUNDED WITH BARRICADES, CONES, AND CAUTION TAPE AS APPROVED BY THE RESIDENT ENGINEER. INSTALL COLD-MIX ALONG THE EDGES OF THE TRENCH PLATES TO CREATE A SMOOTH TRANSITION FROM THE PAVEMENT SURFACE TO THE TRENCH PLATES.
14. ALL ADJACENT BUSINESSES, RESIDENCES, SCHOOLS AND CHURCHES SHALL BE DULY NOTIFIED BY THE CONTRACTOR, IN WRITING, OF HIS PROPOSED OPERATIONS. NOTICE SHALL BE DELIVERED AT LEAST TWO (2) WORKING WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPRODUCTION OF NOTIFICATION LETTERS. THE NOTIFICATION LETTERS SHALL BE WRITTEN IN ENGLISH AND SPANISH LANGUAGES. RE-NOTIFICATION WILL BE REQUIRED IF THE CONTRACTOR'S SCHEDULE IS ALTERED OR OTHER DELAYS OCCUR WHICH AFFECT THE PROJECT SCHEDULE.
15. IF CONSTRUCTION OCCURS DURING THE SCHOOL YEAR, CONTRACTOR SHALL NOTIFY IN WRITING TO THE SEELEY SCHOOL DISTRICT OF THE PROPOSED ROAD CLOSURES AT LEAST TWO (2) WORKING WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL DISTRICT ANY ADDITIONAL TRAFFIC CONTROL THAT MAY REQUIRED FOR SCHOOL BOUND PEDESTRIAN AND VEHICULAR TRAFFIC.
16. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ALLOW REGULARLY SCHEDULED SOLID WASTE DISPOSAL PICK UP ALONG THE AFFECTED STREET SECTIONS DURING THE PROJECT CONSTRUCTION PERIOD.
17. CONTRACTOR SHALL COVER EXISTING TRAFFIC SIGNS, TRAFFIC SIGNALS, OR PEDESTRIAN SIGNAL INDICATIONS SHOULD SAID CONTROLS CONFLICT WITH TEMPORARY TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE COUNTY OF IMPERIAL RESIDENT ENGINEER.
18. WHENEVER THE WORK CAUSES OBLITERATION OF PAVEMENT DELINEATION, TEMPORARY OR PERMANENT PAVEMENT DELINEATION SHALL BE IN PLACE PRIOR TO OPENING THE TRAVELED WAY TO PUBLIC TRAFFIC. LANE LINES AND CENTERLINE PAVEMENT DELINEATION SHALL BE PROVIDED AT ALL TIMES FOR TRAVELED WAYS OPEN TO THE PUBLIC TRAFFIC.
19. CONTRACTOR SHALL REPLACE/REPAIR ANY AND ALL STRIPING, PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS, AND CURB PAINT DISRUPTED OR REMOVED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE RESIDENT ENGINEER.
20. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH FLASHING YELLOW BEACONS, TYPE-B ON ALL W20-1, W20-2, C-19 SIGNS AND ON ALL TYPE-III AND TYPE-II BARRICADES GUARDING THE WORK AREA OVERNIGHT.

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NO.	REVISIONS:	APPROVED	DATE

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DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:
NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
TRAFFIC CONTROL PLAN

C2.05 SHEET
22 OF 23 SHEETS
JOB NO. 542.088

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SIGNAGE CHART

#	SIGN/PLAQUE	SIGN DESIGNATION	SIZE	BACKGROUND COLOR	QUANTITY
19	NO PARKING ANY TIME	R26CA	12"X18"	WHITE	4
9	NEW FIRE TRUCK SIGN AND FLASHING BEACON	W11-18	30"X30"	YELLOW	2
9	PREPARE TO STOP WHEN FLASHING	CUSTOM	24"X36"	YELLOW	2
17	EMERGENCY ACESS KEEP CLEAR	SR46CA	24"X30"	WHITE	2
18	RIGHT LANE MUST TURN RIGHT	R3-7	30"X30"	WHITE	1
23	NEW FIRE TRUCK SIGN	W11-18	30"X30"	YELLOW	2
23	AHEAD SIGN	W16-9P	24"X12"	YELLOW	2

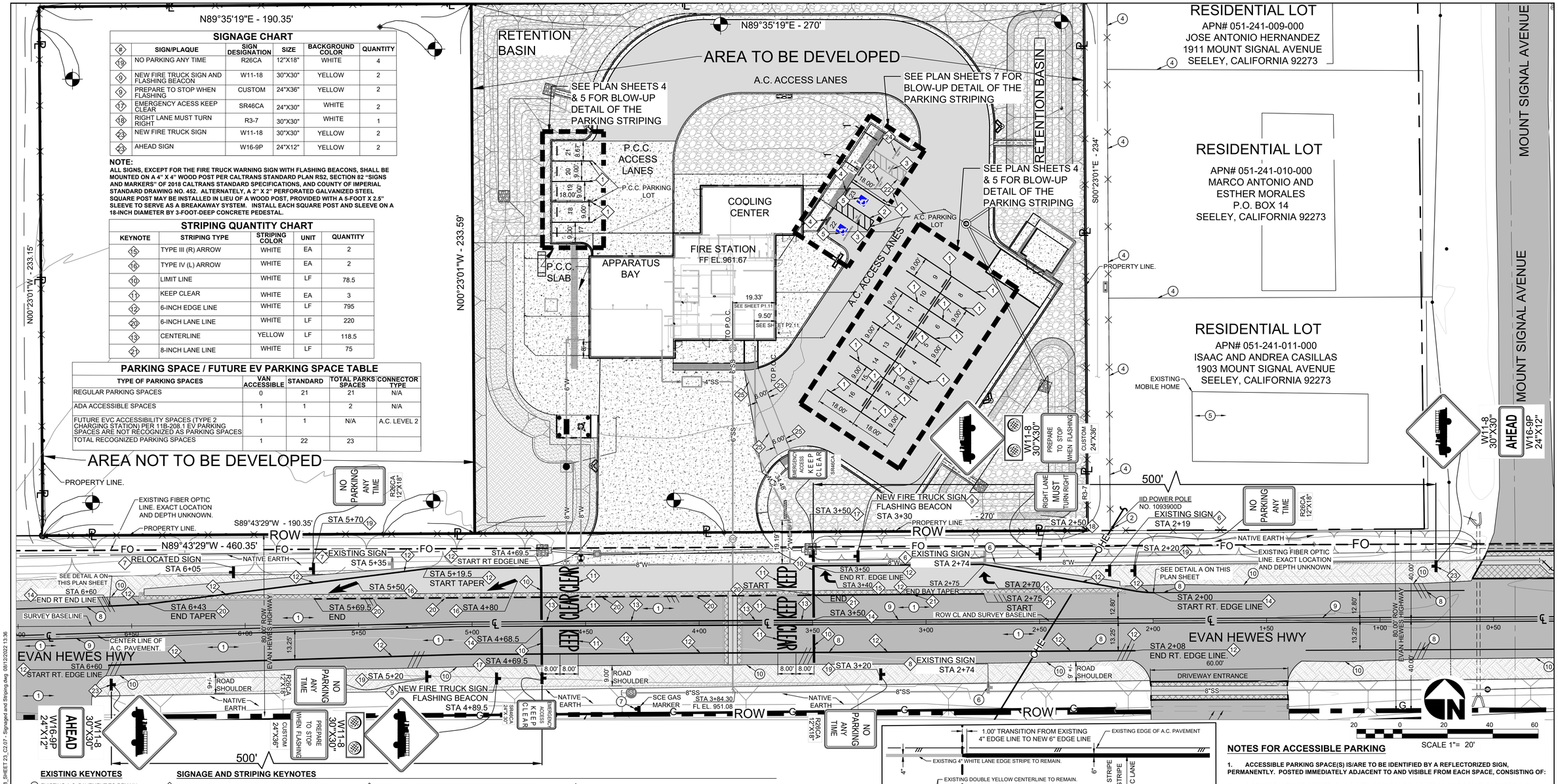
NOTE:
ALL SIGNS, EXCEPT FOR THE FIRE TRUCK WARNING SIGN WITH FLASHING BEACONS, SHALL BE MOUNTED ON A 4" X 4" WOOD POST PER CALTRANS STANDARD PLAN RS2, SECTION 82 "SIGNS AND MARKERS" OF 2018 CALTRANS STANDARD SPECIFICATIONS, AND COUNTY OF IMPERIAL STANDARD DRAWING NO. 452. ALTERNATELY, A 2" X 2" PERFORATED GALVANIZED STEEL SQUARE POST MAY BE INSTALLED IN LIEU OF A WOOD POST, PROVIDED WITH A 5-FOOT X 2.5" SLEEVE TO SERVE AS A BREAKAWAY SYSTEM. INSTALL EACH SQUARE POST AND SLEEVE ON A 18-INCH DIAMETER BY 3-FOOT-DEEP CONCRETE PEDESTAL.

STRIPING QUANTITY CHART

KEYNOTE	STRIPING TYPE	STRIPING COLOR	UNIT	QUANTITY
15	TYPE III (R) ARROW	WHITE	EA	2
16	TYPE IV (L) ARROW	WHITE	EA	2
10	LIMIT LINE	WHITE	LF	78.5
17	KEEP CLEAR	WHITE	EA	3
12	6-INCH EDGE LINE	WHITE	LF	795
20	6-INCH LANE LINE	WHITE	LF	220
13	CENTERLINE	YELLOW	LF	118.5
21	8-INCH LANE LINE	WHITE	LF	75

PARKING SPACE / FUTURE EV PARKING SPACE TABLE

TYPE OF PARKING SPACES	VAN ACCESSIBLE	STANDARD	TOTAL PARKS SPACES	CONNECTOR TYPE
REGULAR PARKING SPACES	0	21	21	N/A
ADA ACCESSIBLE SPACES	1	1	2	N/A
FUTURE EVC ACCESSIBILITY SPACES (TYPE 2 CHARGING STATION) PER 11B-208.1 EV PARKING SPACES ARE NOT RECOGNIZED AS PARKING SPACES	1	1	N/A	A.C. LEVEL 2
TOTAL RECOGNIZED PARKING SPACES	1	22	23	

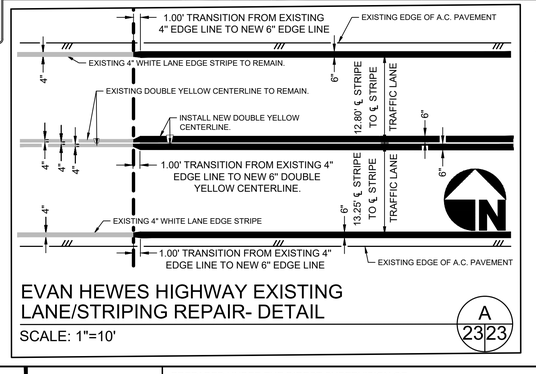


EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING COMMUNICATION ENCLOSURE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.
7. EXISTING GAS MARKER TO REMAIN.
8. EXISTING 4" WHITE LANE EDGE STRIPING.
9. EXISTING DOUBLE YELLOW CENTERLINE.
10. EXISTING EDGE OF PAVEMENT.

SIGNAGE AND STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. RELOCATE EXISTING "END 40MPH SPEED LIMIT" SIGN FROM STATION 2+74 TO STATION 2+19 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
7. RELOCATE "SPEED CHECKED BY RADAR" SIGN FROM STATION 5+35 TO STATION 6+05 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
8. COORDINATE REMOVAL AND TEMPORARY RELOCATION OF EXISTING "SPEED LIMIT 40MPH" SIGN WITH THE ICDPW OFFICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE AND GRADING OF THE SWALE AND ROAD SHOULDER, INSTALL THE SIGN IN A PERMANENT LOCATION PER THE ICDPW REQUIREMENTS.
9. INSTALL NEW SOLAR OPERATED "R247-E" FLASHING BEACONS CONTROLLED WITH "R838" WIRELESS BEACON CONTROLLER AS MANUFACTURED BY CARMANAH (WWW.CARAMANAH.COM), OR AN APPROVED EQUAL, AND PER THE SPECIAL CONDITION SECTION FOR OTHER RELATED SIGN COMPONENT REQUIREMENTS INCLUDED IN THE SPECIFICATIONS/PROJECT MANUAL. THE SOLAR PANEL SHALL CONSIST OF AN "R247-F" LARGE 30W INTEGRATED SOLAR ENGINE AS SPECIFIED AND RECOMMENDED BY CARMANAH MANUFACTURER OR AN APPROVED EQUAL. MOUNT A W11-8 (FIRE ENGINE SIGN) ABOVE THE FLASHING BEACON AND A CUSTOM SIGN STATING "PREPARE TO STOP WHEN FLASHING" BENEATH THE FLASHING BEACON ON A 6" X 6" WOOD POST PER CALTRANS STANDARD PLAN RS2 WITH BACK BRACE AND BREAKAWAY FEATURE AND PER SECTION 82 OF 2018 CALTRANS STANDARD SPECIFICATIONS. ALTERNATELY, THE CONTRACTOR MAY INSTALL THE FLASHING BEACONS AND SIGNS MOUNTED ON TWO (2) 2" X 2" PERFORATED GALVANIZED STEEL SQUARE POSTS PROVIDED WITH BACK BRACES AND 5-FOOT X 2.5" SLEEVES TO SERVE AS A BREAKAWAY SYSTEM. INSTALL EACH SQUARE POST AND SLEEVE ON A18-INCH DIAMETER BY 3-FOOT DEEP CONCRETE PEDESTAL. THE BOTTOM OF THE LOWEST SIGN SHALL BE 5 FEET ABOVE THE FINISH GRADE AS ILLUSTRATED IN THE COUNTY OF IMPERIAL STANDARD DRAWING NO. 452. ALL SIGNS SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD STANDARDS.
10. INSTALL LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
11. INSTALL "KEEP CLEAR" PER CALTRANS STANDARD PLAN A24E.
12. INSTALL WHITE 6-INCH EDGELINE PER DETAIL 27B OF CALTRANS STANDARD PLAN A20B.
13. INSTALL YELLOW CENTERLINE PER DETAIL 21 OF CALTRANS STANDARD PLAN A20A.
14. INSTALL TRANSITION YELLOW CENTERLINE AND WHITE LANE LINE FROM 4" - 6" PER DETAIL A ON THIS PLAN SHEET.
15. INSTALL TYPE III (R) ARROW PER CALTRANS STANDARD PLAN A24B.
16. INSTALL TYPE VI (L) ARROW PER CALTRANS STANDARD PLAN RSP A24A.
17. INSTALL "NEW EMERGENCY ACCESS KEEP CLEAR" SR46 (CA) SIGN.
18. INSTALL NEW "RIGHT LANE MUST TURN RIGHT" R3-7 SIGN.
19. INSTALL NEW "NO PARKING ANY TIME" R26A (CA) SIGN.
20. INSTALL WHITE 6-INCH-WIDE LANE LINE PER DETAIL 9 OF CALTRANS STANDARD PLAN A20A.
21. INSTALL WHITE 8-INCH-WIDE CHANELIZING LINE PER DETAIL 38A OF CALTRANS STANDARD PLAN A20D.
22. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER CALTRANS STANDARD PLAN A90A.
23. INSTALL NEW YELLOW W11-8 AND W16-9P SIGNS.
24. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
25. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.



EVAN HEWES HIGHWAY EXISTING LANE/STRIPING REPAIR- DETAIL

SCALE: 1"=10'

A 23/23

NOTES FOR ACCESSIBLE PARKING

1. ACCESSIBLE PARKING SPACE(S) IS/ARE TO BE IDENTIFIED BY A REFLECTORIZED SIGN, PERMANENTLY. POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH SPACE, CONSISTING OF:
   - A) A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND.
   - B) THE SIGN SHALL ☐70 IN.² IN AREA.
   - C) ADDITIONAL LANGUAGE OR SIGN BELOW THE SYMBOL OF ACCESSIBILITY STATING, "MINIMUM FINE $250".
   - D) WHEN IN THE PATH OF TRAVEL, THEY SHALL BE POSTED ☐80" FROM THE BOTTOM OF THE SIGN TO PARKING SPACE FINISHED GRADE.
   - E) SIGNS MAY ALSO BE CENTERED ON THE WALL OF THE INTERIOR END OF THE PARKING SPACE.
   - F) VAN-ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.
   - G) IN ADDITION, THE SURFACE OF EACH ACCESSIBLE SPACE IS REQUIRED TO BE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. INSTALL AN ADDITIONAL ACCESSIBLE PARKING SIGN IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE IN ACCORDANCE WITH CALIFORNIA BUILDING CODE SECTION 11B-502.8.2. THE SIGN SHALL BE ☐17" X 22" WITH LETTERING NOT ≤1" IN HEIGHT. THE REQUIRED WORDING IS AS FOLLOWS:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT OR BY TELEPHONING _____." BLANK SPACES SHALL BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART OF THE SIGN. MOUNT THE SIGN ON A POST OR ON THE BUILDING WALL WHICHEVER IS MORE VISIBLE TO PUBLIC. THE EXACT LOCATION OF THE SIGN INSTALLATION LOCATION SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION.

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PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
SIGNAGE AND STRIPING PLAN

C2.06 SHEET
23 OF 23 SHEETS
JOB NO. 542.088

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COUNTY OF IMPERIAL
SEELEY FIRE STATION AND COOLING CENTER
APN #051-241-019
1862 WEST EVAN HEWES HIGHWAY
SEELEY, CALIFORNIA

8-15-2022-3RD P.C.

PROJECT DESCRIPTION

THE SEELEY FIRE STATION AND COOLING CENTER PROJECT SITE IS IN THE UNINCORPORATED COMMUNITY OF SEELEY IN IMPERIAL COUNTY. SEELEY IS LOCATED 7.5 MILES WEST OF EL CENTRO, CALIFORNIA AND IS LOCATED NEAR A NAVAL AIR FACILITY (NAF EL CENTRO). SEELEY'S 2010 POPULATION WAS 1,823. SEELEY IS PRIMARILY ACCESSED FROM DREW ROAD WHICH EXITS INTERSTATE 8. SEELEY IS LOCATED APPROXIMATELY 1 ½ MILES NORTH OF INTERSTATE 8.

THE COUNTY OF IMPERIAL HAS BEEN AWARDED FUNDS BY THE CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT THROUGH ITS COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM FOR THE SEELEY FIRE STATION AND COOLING CENTER PROJECT UNDER GRANT 18-CDBG-12924. PER THE CONDITIONS OF THE GRANT, THE PROJECT IS TO BE CONSTRUCTED AND OCCUPIED BY SEPTEMBER 2023.

THE SEELEY FIRE STATION AND COOLING CENTER IS A ONE STORY 4,735 SQUARE FOOT PRE-ENGINEERED METAL BUILDING WITH STUCCO EXTERIOR PANELS. THE SEELEY FIRE STATION IS COMPRISED OF AN APPARATUS BAY TO ACCOMMODATE TWO (2) FIRE TRUCKS, A FIRE STATION WITH OFFICES, LOCKERS, WASHROOM, RESTROOMS, LIVING QUARTERS AND SERVER ROOM AND A COOLING CENTER. THE 850 SQUARE FOOT COOLING CENTER SHALL BE AVAILABLE TO THE PUBLIC AS A REFUGE FOR PERSONS TO ACCESS A COOL SPACE DURING THE HOT SUMMER MONTHS. THE COOLING CENTER OCCUPANCY CAPACITY IS 56 PERSONS. THE PROJECT WILL INCLUDE AN EMERGENCY POWER GENERATOR SET TO PROVIDE THE FACILITY EMERGENCY POWER IN THE EVENT THE NORMAL POWER SOURCE FAILS.

THE SITE IMPROVEMENTS WILL INCLUDE A PCC DRIVEWAY ENTRANCE, ASPHALT CONCRETE PARKING LOTS WITH A TOTAL OF 23 PARKING SPACES AND TWO (2) HANDICAP PARKING SPACES AND AN ASPHALT CONCRETE FIRE TRUCK ACCESS ROADWAY. THE PCC DRIVEWAY ENTRANCE, ASPHALT CONCRETE PARKING LOTS AND ASPHALT CONCRETE FIRE TRUCK ACCESS ROADWAY SHALL BE PROVIDED WITH LIGHTING. THERE WILL BE THREE (3) INTERCONNECTED NATIVE EARTH RETENTION BASINS TO ACCEPT THE STORMWATER GENERATED BY THE PROJECT SITE. THE PROJECT SITE IMPROVEMENTS ALSO INCLUDE A TRASH ENCLOSURE AND PROJECT ENTRANCE SIGN.

THE COUNTY OF IMPERIAL IS THE OWNER OF THE SEELEY FIRE STATION AND COOLING CENTER PROJECT SITE. THE 2.47 ACRE PROJECT SITE IS LOCATED ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY BETWEEN MOUNT SIGNAL AVENUE AND NEW RIVER BOULEVARD. THE EXISTING PROJECT SITE IS UNDEVELOPED AND CONSISTS OF NATIVE EARTH. IT WILL BE NECESSARY TO CLEAR THE ENTIRE SITE OF BRUSH AND DEBRIS PRIOR TO COMMENCING EARTHWORK ACTIVITIES AT THE PROJECT SITE. THE EAST PORTION OF THE PROJECT SITE (MEASURING APPROXIMATELY 234.24 FEET X 270 FEET = 63,245 SQUARE FEET + OR - OR 1.45 ACRES + OR -) IS TO BE DEVELOPED FOR THE CONSTRUCTION OF THE SEELEY FIRE STATION AND COOLING CENTER FACILITY. THE WEST PORTION OF THE PROJECT SITE (MEASURING APPROXIMATELY 190.35 FEET X 233.15 FEET = 44,380 SQUARE FEET + OR - OR 1.02 ACRES + OR -) WILL NOT BE DEVELOPED; HOWEVER, IT IS TO BE CLEARED AND USED AS A BORROW AREA OR AREA TO ACCEPT NATIVE EARTH FROM THE DEVELOPED PROJECT SITE. A PORTION OF THE UNDEVELOPED AREA IS TO BE USED AS A STAGING AREA, CONTRACTOR PARKING AREA AND AREA TO LOCATE THE CONSTRUCTION PROJECT TRAILER. AT THE CONCLUSION OF THE PROJECT THE UNDEVELOPED SITE IS TO BE CLEARED OF CONSTRUCTION RELATED MATERIAL AND ITEMS. THE EXISTING NATIVE EARTH SURFACE IS TO BE LEVELED TO AN ELEVATION ACROSS THE UNDEVELOPED SITE WITHIN 0.10 FEET. THE UNDEVELOPED SITE NATIVE SURFACE IS TO BE COMPACTED TO 85 PERCENT OF MAXIMUM DENSITY PER ASTM D1557 AND BLADED SMOOTH.

THE EXISTING NATIVE EARTH DEVELOPED AREA IS APPROXIMATELY 2 FEET BELOW THE A.C. PAVEMENT CENTERLINE OF EVAN HEWES HIGHWAY. THE FINISH FLOOR OF THE NEW SEELEY FIRE STATION AND COOLING CENTER IS TO BE LOCATED APPROXIMATELY 1 FOOT HIGHER THAN THE CENTERLINE PAVEMENT OF EVAN HEWES HIGHWAY. THE GEOTECHNICAL REPORT FOR THIS PROJECT PREPARED BY SIERRA MATERIAL TESTING AND INSPECTIONS (PROJECT NO. EC957 DATED JANUARY 18, 2022) NOTES THAT THE UPPER 3 FEET OF THE EXISTING NATIVE SOIL CONSISTS OF RELATIVELY LOOSE FILL AND RECOMMENDS THIS LOOSE MATERIAL BE RECOMPACTED.

THE EARTHWORK TECHNICAL SPECIFICATIONS REQUIRES THE UPPER 3 FEET OF THE ENTIRE DEVELOPED AREA EXISTING NATIVE SURFACE BE MOISTURE CONDITIONED AND COMPACTED IN LIFTS AS DETAILED WITHIN THE SPECIFICATION. THE EXISTING UPPER 3 FEET OF NATIVE MATERIAL WILL NOTICE A HIGH SHRINKAGE PERCENTAGE WHEN COMPACTED PER THE SPECIFICATIONS. THE UNDEVELOPED SITE CAN BE USED AS A BORROW AREA TO OBTAIN ADDITIONAL NATIVE MATERIAL TO COMPENSATE FOR THE NATIVE EARTH SHRINKAGE. NATIVE EARTH OBTAINED FROM THE UNDEVELOPED SITE SHALL BE OBTAINED IN EVEN 1 FOOT LIFTS ACROSS THE ENTIRE UNDEVELOPED AREA PROJECT SITE. THE FINAL NATIVE EARTH SURFACE IS TO BE BROUGHT TO AN ELEVATION OF **958.00** ACROSS THE ENTIRE PROJECT SITE DEVELOPMENT AREA. GRANULAR SAND OR CLASS 2 BASE MATERIAL IS TO BE IMPORTED AND COMPACTED AS REQUIRED BY THE EARTHWORK TECHNICAL SPECIFICATIONS BENEATH THE PCC BUILDING SLAB AND FOUNDATION, PCC INFRASTRUCTURE AND ASPHALT CEMENT PAVEMENT INFRASTRUCTURE.

A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WAS PREPARED DURING THE PROJECT DESIGN PERIOD AS REQUIRED BY THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES. THE SWPPP IS INCLUDED AS A CONTRACT DOCUMENT ITEM. THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT THE PROVISIONS OF THE SWPPP INCLUDING THE EROSION CONTROL PLANS AND BEST MANAGEMENT PRACTICES (BMP'S). THE EROSION CONTROL PLANS ARE INCLUDED WITH THE IMPROVEMENT PLANS. THE CONTACTOR SHALL ENGAGE A QUALIFIED SWPPP PRACTITIONER (QSP) FOR SITE INSPECTION AND REPORTING SERVICES. THE QSP SHALL ASSIST THE COUNTY OF IMPERIAL (OWNER) IN OBTAINING A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID). THE QSP SHALL ASSIST THE COUNTY OF IMPERIAL IN FILING DAILY, QUARTERLY, AND ANNUAL REPORTS, FILING THE NOTICE OF TERMINATION (NOT) AT THE PROJECT CONCLUSION AND ALL OTHER REQUIRED SWPPP DOCUMENTS THROUGH THE STORM WATER MULTI APPLICATION AND REPORT TRACKING SYSTEM (SMARTS). THE COUNTY OF IMPERIAL SHALL PAY FOR ALL SWPPP AND SMARTS FILING FEES. THE CONTRACTOR SHALL PAY FOR SERVICES OF THE QSP THROUGHOUT THE PROJECT DURATION.

THE SEELEY FIRE STATION AND COOLING CENTER PROJECT WILL REQUIRE ELECTRICAL, GAS, POTABLE WATER AND SANITARY SEWER SERVICES. APPLICATIONS FOR THE UTILITY SERVICES WERE SUBMITTED TO THE UTILITY AGENCIES DURING THE DESIGN PERIOD.

A CUSTOMER SERVICE PROPOSAL (CSP) WAS SUBMITTED TO THE IMPERIAL IRRIGATION DISTRICT ENERGY DEPARTMENT BY THE COUNTY OF IMPERIAL DURING THE PROJECT DESIGN PHASE. THE IID ENERGY DEPARTMENT COMPLETES ELECTRICAL DESIGN PLANS FOR PROVIDING PRIMARY AND SECONDARY ELECTRICAL POWER TO THE PROJECT. THE IID ENERGY DEPARTMENT PERSONNEL INSTALL THE PROJECT PRIMARY AND SECONDARY ELECTRICAL FACILITIES DURING THE PROJECT CONSTRUCTION PERIOD. THE COMPLETED CSP PLANS, AND COSTS WILL BE ISSUED BY THE IID TO THE COUNTY OF IMPERIAL. THE COUNTY OF IMPERIAL WILL FORWARD THE COMPLETED AND APPROVED IID CSP PLANS AND COSTS TO THE CONTRACTOR. THE CONTRACTOR SHALL PAY FOR THE COSTS OF THE CSP CONSTRUCTION RELATED FEES INCLUDING THE IID ELECTRICAL PERSONAL, ELECTRICAL FACILITIES, ADMINISTRATIVE FEES AND ALL OTHER CONSTRUCTION RELATED ITEMS. THE BID FORMS HAVE INCLUDED CSP CONSTRUCTION RELATED FEES IN AN AMOUNT OF $20,000. IF THE ACTUAL IID CSP FEES ARE GREATER THAN $20,000 A POSITIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE CONTRACTOR FOR THE COST OF THE CSP FEE MORE THAN $20,000. IF THE ACTUAL IID CSP FEE IS LESS THAN $20,000 A NEGATIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE COUNTY OF IMPERIAL FOR THE DIFFERENCE BETWEEN THE $20,000 CSP BID AMOUNT AND THE ACTUAL CSP FEE.

A SOUTHERN CALIFORNIA GAS (SCG) APPLICATION WAS SUBMITTED FOR THE FIRE STATION AND COOLING CENTER GAS RELATED SERVICES DURING THE DESIGN PHASE. THE CONTRACTOR SHALL PAY FOR THE COSTS OF THE SCG SERVICE INSTALLATION AND RELATED FEES. SCG PERSONNEL WILL INSTALL A NEW GAS SERVICE FROM THE EXISTING GAS PIPELINE ALONG THE SOUTH SIDE OF EVAN HEWES HIGHWAY TO THE GAS SERVICE POINT OF CONNECTION (POC) NEAR THE SOUTHEAST CORNER OF THE SEELEY FIRE STATION AND COOLING CENTER BUILDING. THE BID FORMS HAVE INCLUDED A SCG FEE OF $15,000 FOR THE CONSTRUCTION OF THE GAS SERVICE PIPELINE TO THE POC AND FOR THE PAYMENT

OF ANY OTHER SCG FEES. IF THE ACTUAL SCG FEES ARE GREATER THAN $15,000 A POSITIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE CONTRACTOR FOR THE COST OF THE SCG FEE IN EXCESS OF $15,000. IF THE ACTUAL SCG FEES ARE LESS THAN $15,000 A NEGATIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE COUNTY OF IMPERIAL FOR THE DIFFERENCE BETWEEN THE $15,000 SCG SERVICE INSTALLATION AND RELATED FEE BID AMOUNT AND THE ACTUAL SCG FEE.

WATER AND SANITARY SEWER SERVICES FOR THIS PROJECT SHALL BE SUPPLIED BY THE SEELEY COUNTY WATER DISTRICT. AN 8 INCH WATER MAIN PIPELINE EXTENSION AND 8 INCH SANITARY SEWER MAIN PIPELINE EXTENSION WILL BE REQUIRED ALONG EVAN HEWES HIGHWAY FROM MOUNT SIGNAL DRIVE TO THE PROJECT SITE TO SERVICE THE SEELEY FIRE STATION AND COOLING CENTER. SEE CIVIL PLAN AND PROFILE PLAN SHEET 18. THE WATER MAIN AND SANITARY SEWER MAIN WILL BE CONSTRUCTED IN IMPERIAL COUNTY RIGHT OF WAY. A SANITARY SEWER LATERAL, DOMESTIC WATER SERVICE EXTENSION, FIRE HYDRANT WATER PIPELINE EXTENSION AND FIRE SPRINKLER SYSTEM WATER PIPELINE EXTENSION WILL ALSO BE LOCATED IN EVAN HEWES HIGHWAY RIGHT OF WAY. AN ENCROACHMENT PERMIT APPLICATION WAS SUBMITTED TO THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT DURING THE PROJECT DESIGN FOR THE CONSTRUCTION OF THE WATER AND SANITARY SEWER PIPELINES WITHIN IMPERIAL COUNTY RIGHT OF WAY. THE PROJECT DRIVEWAY ENTRANCE IMPROVEMENTS, STORMWATER PIPELINE IMPROVEMENT BENEATH THE DRIVEWAY ENTRANCE AND NATIVE EARTH STORMWATER SWALE GRADING ALONG THE NORTH AND SOUTH SIDES OF EVAN HEWES HIGHWAY ARE ALSO INCLUDED WITH THE ENCROACHMENT PERMIT. AN UNDERGROUND FIBER OPTIC CABLE IS LOCATED ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY AS ILLUSTRATED ON THE PLANS. AT&T WAS CONTACTED DURING THE PROJECT DESIGN TO DISCUSS THE POSSIBLE CONFLICT BETWEEN THE FIBER OPTIC CABLE AND THE NEW STORMWATER PIPELINE TO BE INSTALLED BENEATH THE PROJECT PCC DRIVEWAY ENTRANCE. THIS ITEM WAS UNDER REVIEW AT THE CONCLUSION OF THE PROJECT DESIGN. THE BID FORMS HAVE INCLUDED A COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT ENCROACHMENT PERMIT FEE OF $5,000 FOR THE ISSUANCE OF THE ENCROACHMENT PERMIT TO THE CONTRACTOR AND ASSOCIATED CONSTRUCTION INSPECTION FEES. THE CONTRACTOR SHALL ALSO BE REQUIRED TO PROVIDE THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REQUIRED INSURANCE. IF THE ACTUAL ENCROACHMENT PERMIT FEES ARE GREATER THAN $5,000 A POSITIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE CONTRACTOR FOR THE COST OF THE ENCROACHMENT PERMIT FEE IN EXCESS OF $5,000. IF THE ACTUAL ENCROACHMENT PERMIT FEE IS LESS THAN $5,000 A NEGATIVE CHANGE ORDER WILL BE PROCESSED COMPENSATING THE COUNTY OF IMPERIAL FOR THE DIFFERENCE BETWEEN THE $5,000 BID ITEM AMOUNT AND THE ACTUAL ENCROACHMENT PERMIT FEE.

THE CONTRACTOR SHALL INSTALL THE FIRE HYDRANT WATER PIPELINE SERVICE, SPRINKLER WATER PIPELINE AND BACKFLOW PREVENTER, DOMESTIC WATER METER SERVICE AND BACKFLOW PREVENTER AND SANITARY SEWER LATERAL EXTENSION WITHIN THE SEELEY FIRE STATION AND COOLING CENTER PROJECT SITE AS ILLUSTRATED ON THE APPROVED IMPROVEMENT PLANS. THE SEELEY COUNTY WATER DISTRICT WATER AND SEWER FEES FOR THIS PROJECT WERE PAID BY THE COUNTY OF IMPERIAL DURING THE PROJECT DESIGN PHASE. THE CONTRACTOR SHALL COORDINATE WITH THE SEELEY COUNTY WATER DISTRICT REPRESENTATIVES AND CONSTRUCTION MANAGER DURING THE CONSTRUCTION PERIOD FOR THE INSPECTION AND APPROVAL OF THE PROJECT WATER AND SEWER SERVICES IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

GENERAL NOTES

STREET IMPROVEMENT GENERAL NOTES

1. COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.
2. 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).
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS-GUTTER AND PAVING.
5. 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.
6. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
7. 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.

A. COUNTY OF IMPERIAL
DEPARTMENT OF PUBLIC WORKS
155 S. ELEVENTH STREET
EL CENTRO, CA 92243
PHONE: (442) 265-1818
CONTACT: JOHN GAY, P.E.

B. SEELEY COUNTY WATER DISTRICT
1898 WEST MAIN STREET
SEELEY, CA 92273
PHONE: (760) 425-0041
CONTACT: MIRIAM ROSALES

C. SPECTRUM
313 N. EIGHTH STREET
EL CENTRO, CA 92243
PHONE: (760) 679-5294
CONTACT: CHRIS CORTEZ

D. SOUTHERN CALIFORNIA GAS COMPANY-PLANNING DEPARTMENT
P.O. BOX 3003
1981 W. LUGONIA AVENUE
REDLANDS, CA 92373
PHONE: (909) 335-7561
CONTACT: ANTONIO MORALES

E. SOUTHERN CALIFORNIA GAS COMPANY
602 EAST ROSS AVENUE
EL CENTRO, CA 92243
PHONE: (760) 370-5812
CONTACT: ENRIQUE CUEVAS

F. IMPERIAL IRRIGATION DISTRICT - POWER DIVISION
333 WATERMAN AVENUE
EL CENTRO, CA 92243
PHONE: (760) 482-3426
CONTACT: IGNACIO ROMO

G. IMPERIAL IRRIGATION DISTRICT - WATER DIVISION
333 E. BARIONI BLVD.T
IMPERIAL CA. 92251
PHONE: (760) 339-9507
CONTACT: ISMAEL GOMEZ, P.E.

H. AT&T
1029 S. SECOND STREET
EL CENTRO, CA 92243
PHONE: (760) 337-3358
CONTACT: DANIEL GARCIA

I. UNDERGROUND SERVICE ALERT
PHONE: 811

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 HERON 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 CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, AT&T, IMPERIAL IRRIGATION DISTRICT WATER AND POWER DIVISIONS, SEELEY COUNTY WATER DISTRICT, AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.

8. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
9. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
10. 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.
11. ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.
12. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
13. THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.
14. 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, (760) 482-4462. 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.
15. 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.
16. 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 SPECIFICATIONS & THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY; WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.
17. 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 2010". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.
18. 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.
19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE PROVISIONS OF THE GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A QUALIFIED SWPPP PRACTITIONER (QSP) FOR THIS PROJECT. CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812".
20. CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNER/DEVELOPERS WITH THE QSP ASSISTANCE 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.
21. 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.
22. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) OR AS DIRECTED BY THE IMPERIAL COUNTY TRAFFIC ENGINEER OR IMPROVEMENT PLANS.
23. 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 CONTRACTORS OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTING 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.
24. 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.
25. THE NOTES LISTED ABOVE ARE A MINIMUM LIST. THIS DOES NOT RELIEVE THE ENGINEER FROM COMPILING ADDITIONAL NOTES THAT MAY BE REQUIRED FOR THE PROJECT.

GRADING PLAN GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. 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.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. 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, (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE AT CONTACT NUMBER 811. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE AGENCIES LISTED ON SECTION 7 OF THE STREET IMPROVEMENT GENERAL NOTES.
6. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT AND/OR GRADING PLAN APPROVAL.
7. 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 PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING DEPARTMENT.
8. 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 ONSITE OR PERIMETER SCREEN OR RETAINING WALLS.
9. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
10. 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 SILTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
11. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF THE PLANNING DEPARTMENT AND THE DISCOVERY. GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING TO DO SO.
12. 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.
13. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.
14. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
15. 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.
16. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE APPROVED PM10 PLAN. APPROVAL SHALL BE BY IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT.
17. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE EXISTING GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
18. THE MAXIMUM ALLOWABLE CUT AND FILL SLOPES ARE 2:1, UNLESS A SLOPE STABILITY ANALYSIS AUTHORIZES A STEEPER SLOPE AND HAS BEEN APPROVED.
19. 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.
20. A BROW DITCH DESIGNED TO HANDLE THE FLOWS (Q) FROM A 100-YR. STORM EVENT SHALL BE CONSTRUCTED ALONG THE TOP OF ALL CUT SLOPES.
21. NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED.
22. 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.
23. 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.
24. 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.
25. 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.
26. THE CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" AT 811 A MINIMUM OF TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY DIGGING OR EXCAVATION.

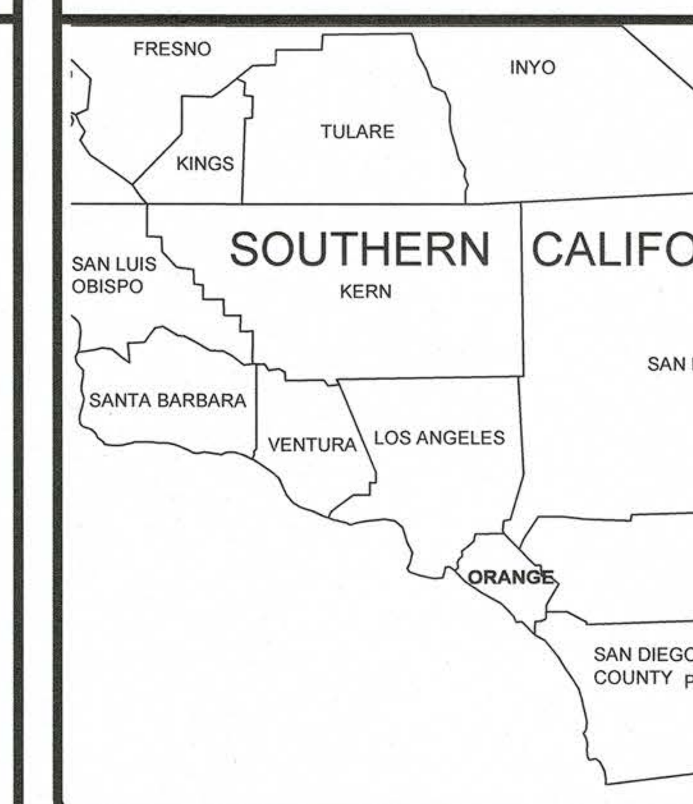
GEOTECHNICAL ENGINEER'S STATEMENT

I STATE THAT I HAVE REVIEWED THESE PLANS AND FIND THAT THEY SUBSTANTIALLY CONFORM TO THE RECOMMENDATIONS SET FORTH IN REPORT NO. EC957 DATED JULY 07, 2022 PREPARED IN OUR OFFICE.

ROBERTO MARTINEZ, P.E.
SIERRA MATERIAL TESTING & INSPECTION
1003 INDUSTRY WAY, SUITE A
EL CENTRO, CALIFORNIA 92243
PHONE: (760) 337-2067

ROBERTO MARTINEZ, P.E. — DATE 7/20/22

VICINITY MAP



LOCATION MAP

SHEET INDEX

SHEET NO.	DRAWING NO.	SHEET TITLE ON-SITES	SHEET NO.	DRAWING NO.	SHEET TITLE ON-SITES
1.	C1.01	TITLE SHEET	14.	C1.14	SOLID WASTE ENCLOSURE SECTIONS AND DETAILS
2.	C1.02	SHEET INDEX/SITE PLAN	15.	C1.15	EROSION CONTROL PLAN AND CONTRACTOR STAGING AREA
3.	C1.03	EXISTING/DEMOLITION SITE PLAN	16.	C1.16	EROSION CONTROL DETAILS
4.	C1.04	GRADING IMPROVEMENT PLAN	17.	C1.17	HORIZONTAL CONTROL PLAN
5.	C1.05	GRADING IMPROVEMENT PLAN	18.	C2.01	EVAN HEWES HIGHWAY WATER AND SANITARY SEWER PLAN AND PROFILE SHEET
6.	C1.06	FENCING AND UTILITY PLAN	19.	C2.02	STORM WATER DRAINAGE SWALE AND SECTIONS
7.	C1.07	HANDICAP PARKING LOT BLOW-UP DETAIL	20.	C2.03	WATER AND SEWER DETAIL SHEET
8.	C1.08	GRADING AND FINISH SURFACE SECTIONS	21.	C2.04	WATER, SEWER AND DEPRESSED CURB & GUTTER DETAIL SHEET
9.	C1.09	WATER, SANITARY SEWER, PAVING AND SITE GRADING DETAIL SHEET	22.	C2.05	TRAFFIC CONTROL PLAN
10.	C1.10	SOLID WASTE ENCLOSURE PLAN	23.	C2.06	SIGNAGE AND STRIPING PLAN
11.	C1.11	WATER AND SANITARY SEWER DETAIL SHEET			
12.	C1.12	CHAIN LINK FENCE DETAIL SHEET			
13.	C1.13	MISCELLANEOUS DETAIL SHEET			

SITE ACREAGE

2.47 ACRES

EARTHWORK

NATIVE EARTH CUT 7,330 CYD **FILL 11,684 CYD**

DECLARATION OF RESPONSIBLE CHARGE

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

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

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

JAMES G. HOLT, P.E.
R.C.E. NO. 31773 — DATE 7/8/2022

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

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BLYTHE OFFICE
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Blythe, CA 92225
(760) 922-4658

NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE: SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT: TITLE SHEET

C1.01 SHEET
1 OF 23 SHEETS
JOB NO. 542.088

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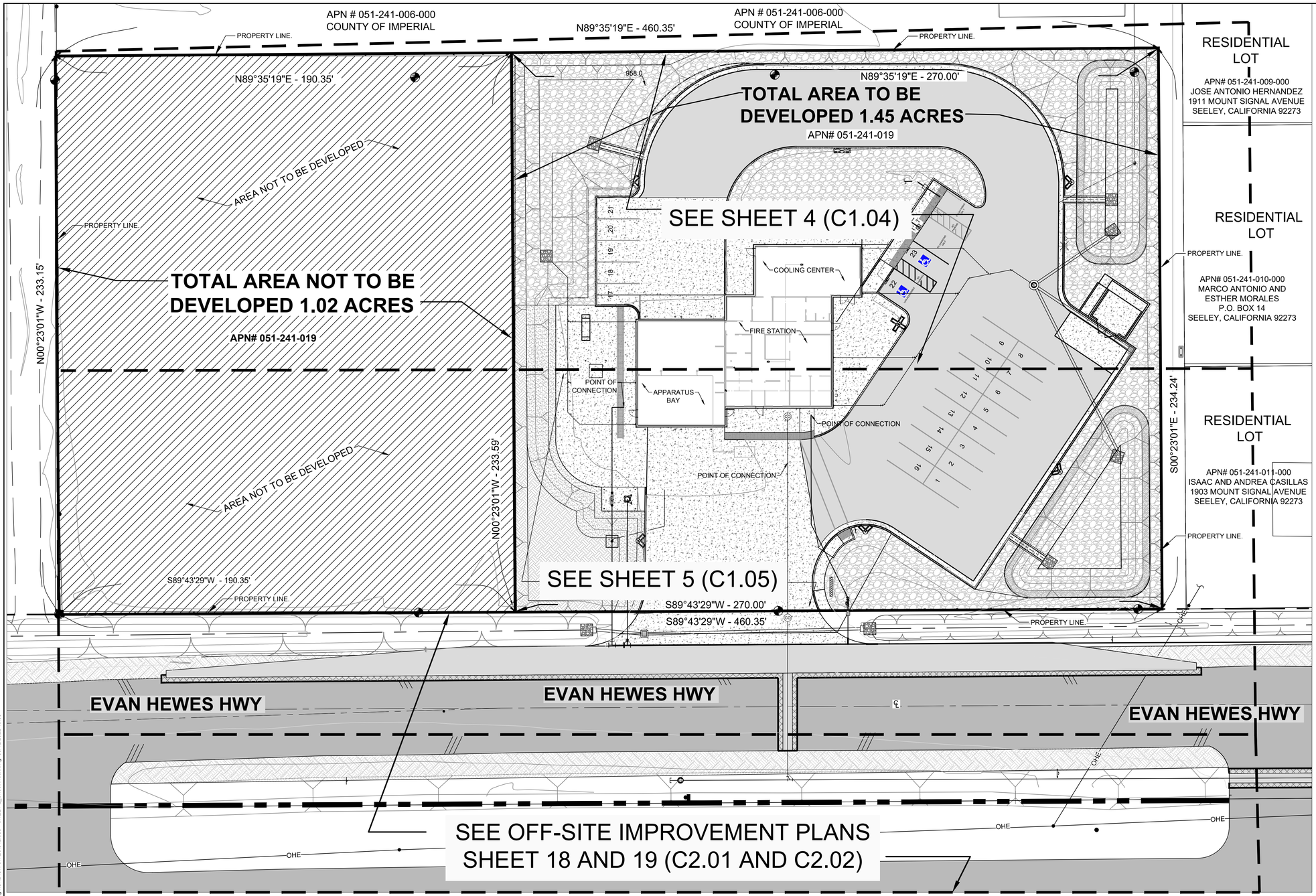

ABBREVIATIONS

AGG.	AGGREGATE	L.	LENGTH
APP.	APPROXIMATE	LIP.	LIP OF CURB IN DRIVEWAYS
A.C.P.	ASBESTOS CEMENT PIPE	M.C.	MIDDLE OF CURVE
A.C.	ASPHALT CONCRETE	M.H.	MANHOLE
B.C.	BEGINNING OF CURVE RADIUS	MAX.	MAXIMUM
B.O.C.	BACK OF CURB	MIN.	MINIMUM
BLDG.	BUILDING	MISC.	MISCELLANEOUS
B.V.	BUTTERFLY VALVE	N.T.S.	NOT TO SCALE
C.H.	CHORD	O.C.	ON CENTER
C.I.	CAST IRON	O.D.	OUTSIDE DIAMETER
C.B.	CATCH BASIN	OHE	OVERHEAD ELECTRICAL LINE
C.M.C.	CEMENT MORTAR COATED	P.E.	PAD ELEVATION
C.M.L.	CEMENT MORTAR LINED	%	PERCENT
℄	CENTERLINE	P.I.	POINT OF INFLECTION
CL2	CLASS 2 BASE	P.I.G.	POINT OF INTERSECTING GRADES
C & G	CURB AND GUTTER	P.I.T.	POINT OF INTERSECTING TANGENTS
DIA.	DIAMETER	PIV	POST INDICATOR VALVE
DN	DOWN	P.O.C.	POINT OF CONNECTION
D/W	DRIVEWAY	P.V.C.	POLY VINYL CHLORIDE
Δ	DELTA	P.C.C.	PORTLAND CONCRETE CEMENT
E.P.	EDGE OF PAVEMENT	P.P.	POWER POLE
EL.	ELEVATION	R.	RADIUS
E.C.	END OF CURVE RADIUS	R.C.P.	REINFORCED CONCRETE PIPE
FDC	FIRE DEPARTMENT CONNECTION	R/W OR ROW	RIGHT-OF-WAY
F.O.C.	FACE OF CURB	RW	RESILIENT WEDGE
F.F.	FINISH FLOOR ELEVATION	S/W	SIDEWALK
℄/ FL	FLOWLINE	S.	SLOPE
F.S.	FINISH SURFACE	SD	STORM DRAIN
G.B.	GRADE BREAK	SS	SANITARY SEWER
G	GAS PIPELINE	SCWD	SEELEY COUNTY WATER DISTRICT
G.V.	GATE VALVE	STA	STATION
H.B.	HOSE BIB	T.	TANGENT
I.I.D.	IMPERIAL IRRIGATION DISTRICT	TOP	TOP OF SLOPE
ICDPW	IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS	TC	TOP OF CONCRETE
		TCC	TOP OF CONCRETE CURB
I.D.	INSIDE DIAMETER	TMH	TOP OF MANHOLE
INV.	INVERT	T.P.	TOP OF PAVEMENT
		UT	UNDERGROUND TELEPHONE

LEGEND

ITEM NO.	ITEM	SYMBOL
1	NEW A.C. PAVEMENT	
2	P.C.C. STRUCTURES	
3	SIGN	
4	POWER POLE	
5	GUY WIRE	
6	EXISTING PALM TREE	
7	EXISTING TREE/VEGETATION	
8	COLD PLANE PAVEMENT	
9	RIGHT OF WAY	ROW
10	EXISTING A.C. PAVEMENT	
11	EXISTING FENCE	
12	PROPERTY LINE	℄
13	AREA NOT TO BE DEVELOPED	
14	AREA TO BE DEVELOPED	
15	SURVEY MONUMENTS	

NOTE: THE TOTAL PROJECT SITE IS 2.47 ACRES

N

20 0 20 40 60

SCALE 1"= 20'

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PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT

07/08/2022
DATE

31773
R.C.E. NO.

12/31/2022
REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

SHEET INDEX / SITE PLAN

C1.02
SHEET
2
OF 23 SHEETS
JOB NO.
542.088

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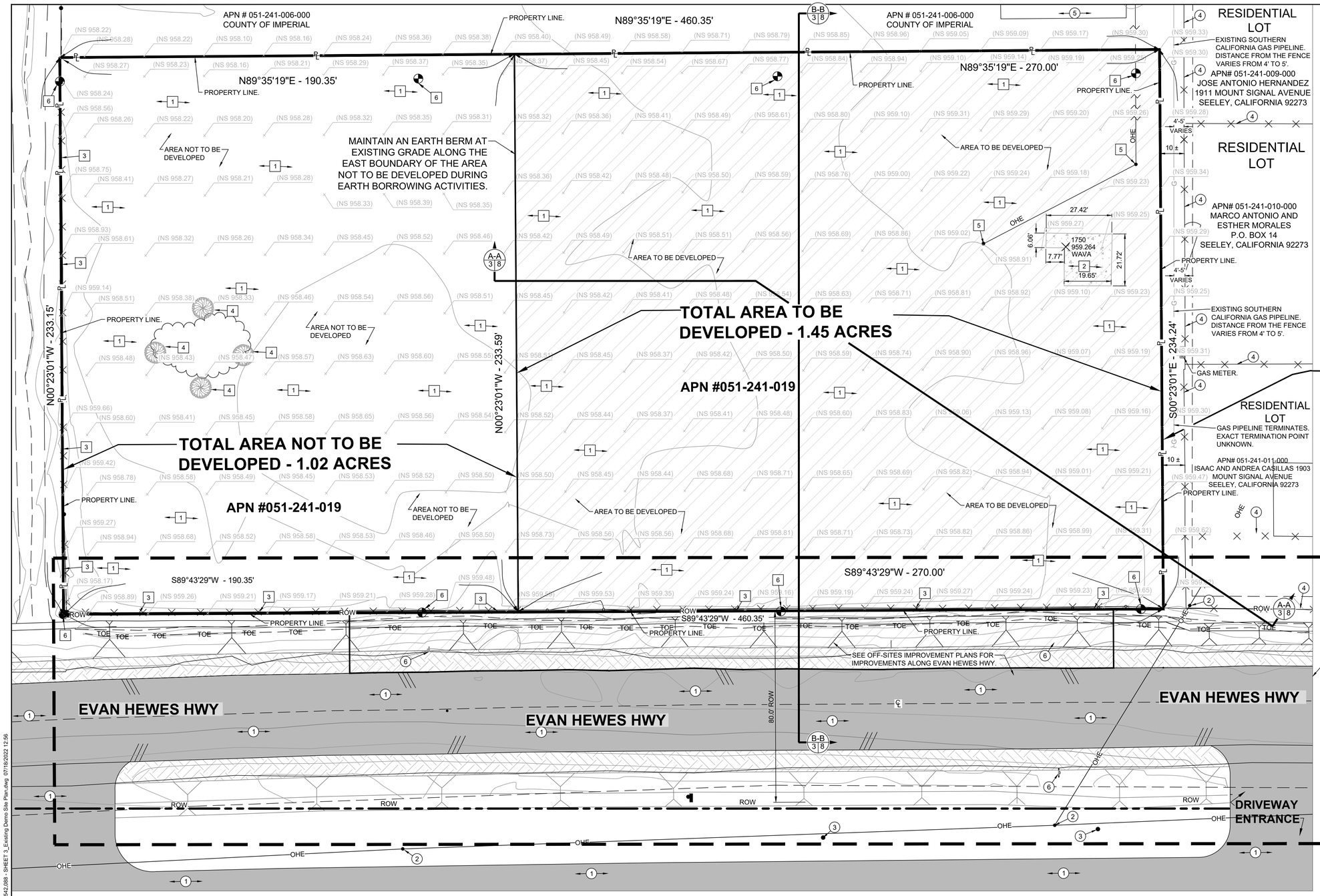

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING COMMUNICATION ENCLOSURE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO **REMAIN.**

DEMOLITION KEYNOTES

1. CLEAR THE EXISTING BRUSH, GRASS AND DEBRIS WITHIN THE PROJECT LIMITS OF CONSTRUCTION. ALL BRUSH, DEBRIS AND WASTE MATERIAL RESULTING FROM THE DEMOLITION AND CLEARING SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER BY THE CONTRACTOR.
2. REMOVE AND DISPOSE OF THE EXISTING P.C.C. SLAB AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
3. REMOVE AND DISPOSE OF EXISTING FENCE, POST AND POST FOOTINGS.
4. REMOVE AND DISPOSE OF TREES.
5. REMOVE AND DISPOSE OF EXISTING ABANDONED POLE AND ELECTRICAL CABLES.
6. CONTRACTOR SHALL PROTECT AND PRESERVE THE EXISTING MONUMENTS AS DIRECTED BY THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT AND THE MONUMENT PRESERVATION NOTE ON THIS PLAN.

THE SURFACE NATIVE MATERIAL ACROSS THE ENTIRE AREA *TO BE DEVELOPED* IS TO BE REMOVED AND STOCKPILED ON THE SITE *NOT TO BE DEVELOPED* TO ELEVATION 955.75. THE NATIVE EARTH AT THE BASE OF THE EXCAVATION IS TO BE SCARIFIED AND COMPACTED AT 90 PERCENT MAXIMUM DENSITY PER ASTM D-1557 AT 2 PERCENT OVER OPTIMUM WATER CONTENT TO A DEPTH OF 955.00. NATIVE EARTH IS TO BE MOVED FROM THE STOCKPILE AND PLACED IN MAXIMUM 9 INCH LIFTS ACROSS THE ENTIRE PROJECT SITE *TO BE DEVELOPED*. EACH 9 INCH LIFT SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D1557 AT 2 PERCENT OVER OPTIMUM WATER CONTENT. INSTALL NATIVE MATERIAL IN 9 INCH LIFTS TO AN ELEVATION OF 958.00 ACROSS THE PROJECT SITE. CONTROLLED FILL MATERIAL CONSISTING OF CLASS 2 BASE OR GRANULAR SAND SHALL BE PLACED ABOVE THE 958.00 ELEVATION. NATIVE BORROW MATERIAL CAN BE OBTAINED IN THE AREA *NOT TO BE DEVELOPED* AS NEEDED. THE BORROWED MATERIAL SHALL BE OBTAINED EVENLY ACROSS THE ENTIRE SITE *NOT TO BE DEVELOPED*. SEE THE EARTHWORK TECHNICAL SPECIFICATIONS FOR A DETAILED DESCRIPTION OF THE SITE EARTHWORK REQUIREMENTS.

POTHOLE NOTES

1. ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ON THE PLANS ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER AND SANITARY SEWER PIPELINES SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
2. IT WILL BE REQUIRED TO "POT-HOLE" THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE "POT-HOLING" ACTIVITIES WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 8-INCH SEWER AND WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLES, FIBER OPTIC, WATER, GAS, ELECTRICAL, COMMUNICATION, IRRIGATION AND SEWER UTILITIES. IT WILL BE REQUIRED TO POTHOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW 8-INCH SEWER AND WATER PIPELINES. THE CONSTRUCTION MANAGER WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER AND CONTRACTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE SEWER, WATER AND STORMWATER PIPELINE GRADES AS ILLUSTRATED ON THE DRAWINGS. THE CONTRACTOR WILL PREPARE HIS/HER PROPOSAL BASED ON THE ASSUMPTION THAT UNDERGROUND UTILITIES WILL NOT BE REQUIRED TO BE RELOCATED BY THE CONTRACTOR.
3. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER AWWA C-900 DR 18, PRESSURE CLASS 235 PVC WATER PIPELINE TO THE DESIGN GRADES AS ILLUSTRATED ON THE PLAN AND PROFILE IMPROVEMENT PLAN SHEETS.
4. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE TO THE DESIGN GRADES AS ILLUSTRATED ON THE PLAN AND PROFILE IMPROVEMENT PLAN SHEETS.
5. THE CONTRACTOR AND CONSTRUCTION MANAGER SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.

MONUMENT PRESERVATION NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SURVEY MONUMENTS, CORNER ACCESSORIES AND/OR BENCHMARKS WITHIN THE LIMITS OF WORK. IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT (CHAPTER 15 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE), SUCH OBJECTS WITHIN THE LIMITS OF WORK THAT MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REFERENCED BY A PERSON AUTHORIZED TO PRACTICE LAND SURVEYING AND A CORNER RECORD (OR RECORD OF SURVEY) SHOWING SAID REFERENCES SHALL BE FILED WITH THE COUNTY SURVEYOR PRIOR TO CONSTRUCTION. ANY MONUMENT, CORNER ACCESSORY, OR BENCHMARK THAT IS DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REPLACED WITH APPROPRIATE MONUMENTATION BY A PERSON AUTHORIZED TO PRACTICE LAND SURVEYING AND A CORNER RECORD (OR RECORD OF SURVEY) SHALL BE FILED PRIOR TO PROJECT COMPLETION. FORM MPR-01 AND FORM MPR-02 ARE REQUIRED FOR ALL IMPERIAL COUNTY PROJECTS.

NOTE:
THE TOTAL PROJECT SITE IS 2.47 ACRES

SCALE 1"= 20'

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PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
EXISTING / DEMOLITION SITE PLAN

C1.03 SHEET
3 OF 23 SHEETS
JOB NO. 542.088

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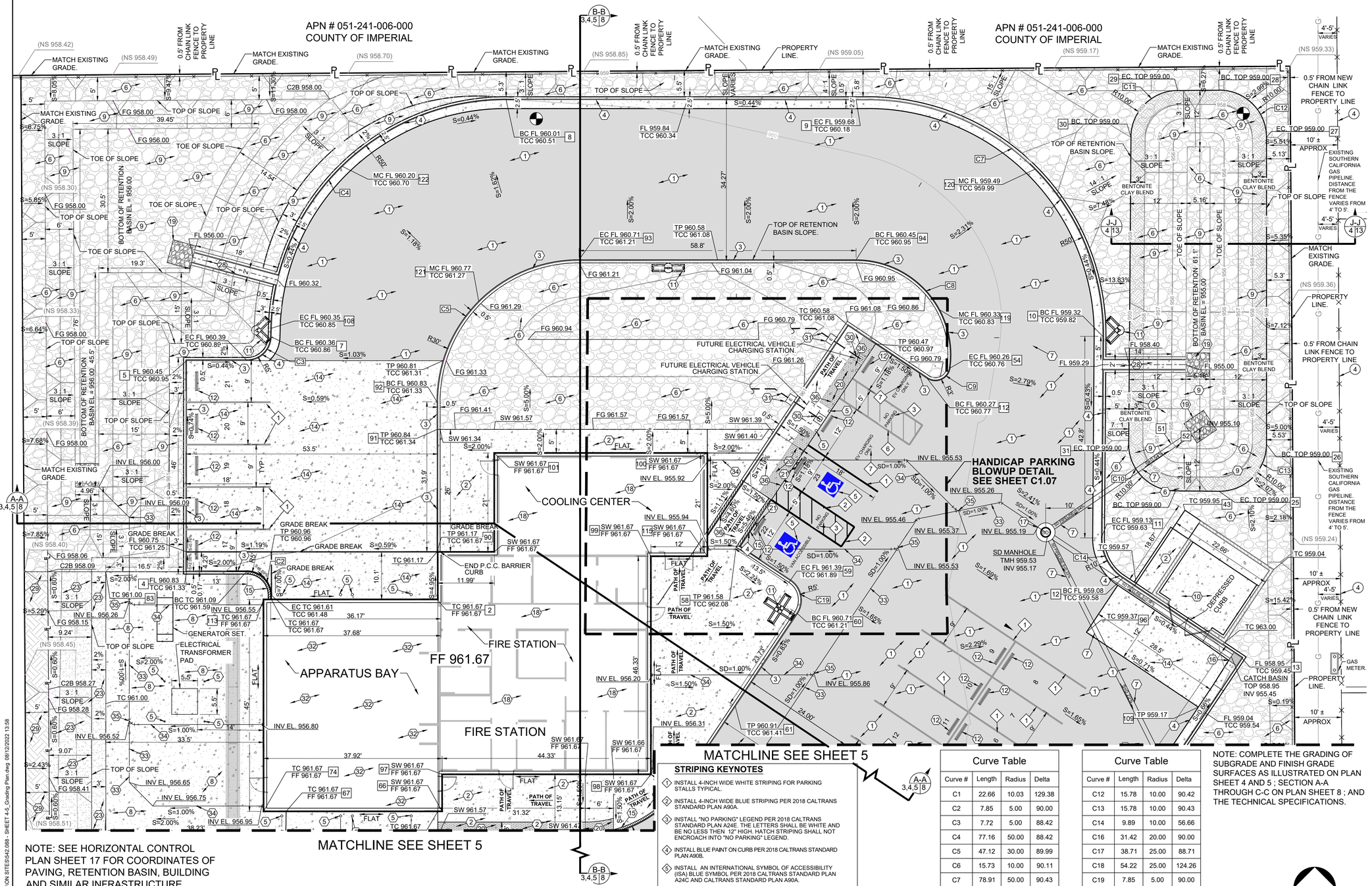

NOTE: SEE HORIZONTAL CONTROL PLAN SHEET 17 FOR COORDINATES OF PAVING, RETENTION BASIN, BUILDING AND SIMILAR INFRASTRUCTURE.

NOTE: COMPLETE THE GRADING OF SUBGRADE AND FINISH GRADE SURFACES AS ILLUSTRATED ON PLAN SHEET 4 AND 5 ; SECTION A-A THROUGH C-C ON PLAN SHEET 8 ; AND THE TECHNICAL SPECIFICATIONS.

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. ~~EXISTING COMMUNICATION ENCLOSURE TO REMAIN.~~
4. EXISTING FENCE TO REMAIN.
5. ~~EXISTING BUILDING TO REMAIN.~~
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.

CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 5-INCH P.C.C. SIDEWALK OVER 6-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE DETAIL A ON PLAN SHEET 9.
3. INSTALL P.C.C.BARRIER CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 401, SEE DETAIL B ON SHEET 9.
4. INSTALL 6-INCH CURB AND GUTTER OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE MODIFIED IMPERIAL STANDARD DETAIL 400. SEE DETAIL C ON SHEET 9.
5. INSTALL 4-INCH BOLLARDS PER DETAIL N ON SHEET 11.
6. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL 12-INCH AWWA C-900 DR18 PVC STORMWATER PIPELINE PER DETAIL DD ON PLAN SHEET 20.
8. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 8-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE 6X6- 6 GAUGE WELDED WIRE REINFORCING FABRIC WITHIN THE 6-INCH THICK P.C.C. CONCRETE 2" ABOVE THE BOTTOM OF THE SLAB.
9. CONSTRUCT STORMWATER RETENTION BASIN PER THE GRADES AND SLOPES ILLUSTRATED ON THE PLANS AND PER SECTIONS A-A TO C-C ON SHEET 8. A 12-INCH LAYER OF NATIVE CLAY MATERIAL BLEND WITH BENTONITE SHALL BE INSTALLED BENEATH THE CRUSHED ROCK MATERIAL IN RETENTION BASIN AREAS ABOVE THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE BLEND TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. NO BENTONITE CLAY BLEND REQUIRED FOR NORTHWEST RETENTION BASIN.
10. INSTALL TRASH ENCLOSURE PER DETAIL J ON SHEET 10.
11. INSTALL PARKING LIGHT. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
12. INSTALL BUMPER STOP PER DETAIL G ON SHEET 9.
13. INSTALL MONUMENT SIGN PER DETAIL V ON SHEET 13. PROVIDE ELECTRICAL CIRCUITRY AND DISCONNECT FOR SIGN PER ELECTRICAL PLAN SHEET E1.00.
14. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 12-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER EACH WAY.
15. INSTALL 0" TO 6" HIGH, 3-FOOT LONG (OR AS ILLUSTRATED ON THE IMPROVEMENT PLANS) CURB TRANSITION PER DETAIL W ON SHEET 13.
16. INSTALL 24-INCH X 24-INCH P.C.C. STORMWATER CATCH BASIN WITH GRATE PER DETAIL Y ON SHEET 14.
17. INSTALL STORMWATER MANHOLE PER DETAIL CC ON SHEET 20.
18. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557, PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
19. INSTALL 5 FEET WIDE BY 5 FEET LONG BY 1.5 FOOT DEEP MINIMUM SMALL ROCK (4-INCH) SLOPE PROTECTION PER SECTION 72-4 OF 2018 CALTRANS STANDARD SPECIFICATIONS. USE ROCK GRADATION FOR 7-INCH THICK LAYER. INSTALL RSP FABRIC TYPE "8" UNDERNEATH THE RSP PER SECTIONS 72 AND 96-1.02I OF 2018 CALTRANS STANDARD SPECIFICATIONS.
20. INSTALL FEDERAL YELLOW TRUNCATED DOMES PER CALTRANS STANDARD PLAN A88A.
21. INSTALL ADA R99C SIGN PER 2018 CALTRANS STANDARDS PLAN A90A. SIGN SHALL BE GREATER THAN OR EQUAL TO 70 SQUARE INCHES IN AREA. PLACE "VAN - ACCESSIBLE " SIGN PER 2018 CALTRANS STANDARDS PLAN A90A BENEATH THE ADA R99C SIGN.
22. INSTALL ADA R10DB SIGN PER 2018 CALTRANS STANDARD PLAN A90A. THE SIGN SHALL BE GREATER THAN OR EQUAL TO 70 X 22 WITH LETTERING NOT LESS THAN OR EQUAL TO 1" INCH HEIGHT.
23. INSTALL CLASS 2 BASE MATERIAL FROM THE TOP OF THE BACK OF CURB AT A 2 PERCENT SLOPE FOR A HORIZONTAL DISTANCE OF 3 FEET. THEN, EXTEND THE CLASS 2 BASE MATERIAL AT A 3 TO 1 MAXIMUM SLOPE TO THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
24. INSTALL 4-INCHES OF A.C. PAVEMENT OVER 12-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
25. COLD PLANE (GRIND) EXISTING A.C. PAVEMENT EDGE AS ILLUSTRATED BY THE CROSS HATCHED AREA FOR A DEPTH OF 0.12 FEET PER DETAIL H ON PLAN SHEET 9.
26. COMPLETE A.C. PAVEMENT INSTALLATION AT THE 6" SDR 26 PVC SANITARY SEWER LATERAL TRENCH PER DETAIL BB ON PLAN SHEET 20.
27. INSTALL P.C.C. HEADWALL PER DETAIL KK IN PLAN SHEET 21.
28. INSTALL 2-FOOT WIDE P.C.C. CURB SPILLWAY PER DETAIL LL ON PLAN SHEET 21.
29. INSTALL NATIVE MATERIAL FROM THE TOP OF THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00 TO THE DESIGN FINISH GRADE SHOWN ON THE GRADING IMPROVEMENT PLAN SHEETS COMPACTED THE NATIVE MATERIAL IN MAXIMUM 7-INCH LIFTS TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
30. EXTEND CONDUIT FROM NEW ELECTRICAL JUNCTION BOX TO FUTURE ELECTRICAL VEHICLE CHARGING STATION LOCATION.
31. INSTALL NEW ELECTRICAL JUNCTION BOX AND CONDUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING STATIONS PER THE CALIFORNIA GREEN BUILDING CODE SECTION 5.106.5.3.
32. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557, PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
33. INSTALL 6-INCH SDR 26 PVC STORMWATER HEADER PIPELINE WITH SDR 26 PVC ELBOWS AS REQUIRED. THE HEADER PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
34. INSTALL 4-INCH SDR 26 PVC STORMWATER PIPELINE AND REQUIRED SDR PVC ELBOWS FROM DOWNSPOUT TO HEADER PIPELINE. VERIFY PIPELINE DIAMETER SIZING WITH DEFEED SUBMITTAL. THE PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
35. INSTALL SDR 6" X 6" X 4" WYE FITTING AND ELBOW FITTINGS AS REQUIRED.
36. INSTALL P.C.C. HANDICAP RAMP PER CALTRANS STANDARD PLAN A88B, CASE CH, LATEST EDITION.

STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER 2018 CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER 2018 CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
7. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
8. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.

Curve Table

Curve #	Length	Radius	Delta
C1	22.66	10.03	129.38
C2	7.85	5.00	90.00
C3	7.72	5.00	88.42
C4	77.16	50.00	88.42
C5	47.12	30.00	89.99
C6	15.73	10.00	90.11
C7	78.91	50.00	90.43
C8	43.16	20.00	123.63
C9	6.06	3.00	115.76
C10	15.71	10.00	90.00
C11	15.56	10.00	89.16

Curve Table

Curve #	Length	Radius	Delta
C12	15.78	10.00	90.42
C13	15.78	10.00	90.43
C14	9.89	10.00	56.66
C16	31.42	20.00	90.00
C17	38.71	25.00	88.71
C18	54.22	25.00	124.26
C19	7.85	5.00	90.00
C20	24.54	25.00	56.24
C21	25.46	10.00	145.86
C22	31.65	20.17	89.93

SCALE 1"= 10'

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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

GRADING IMPROVEMENT PLAN

C1.04 SHEET 4 OF 23 SHEETS

JOB NO. 542.088

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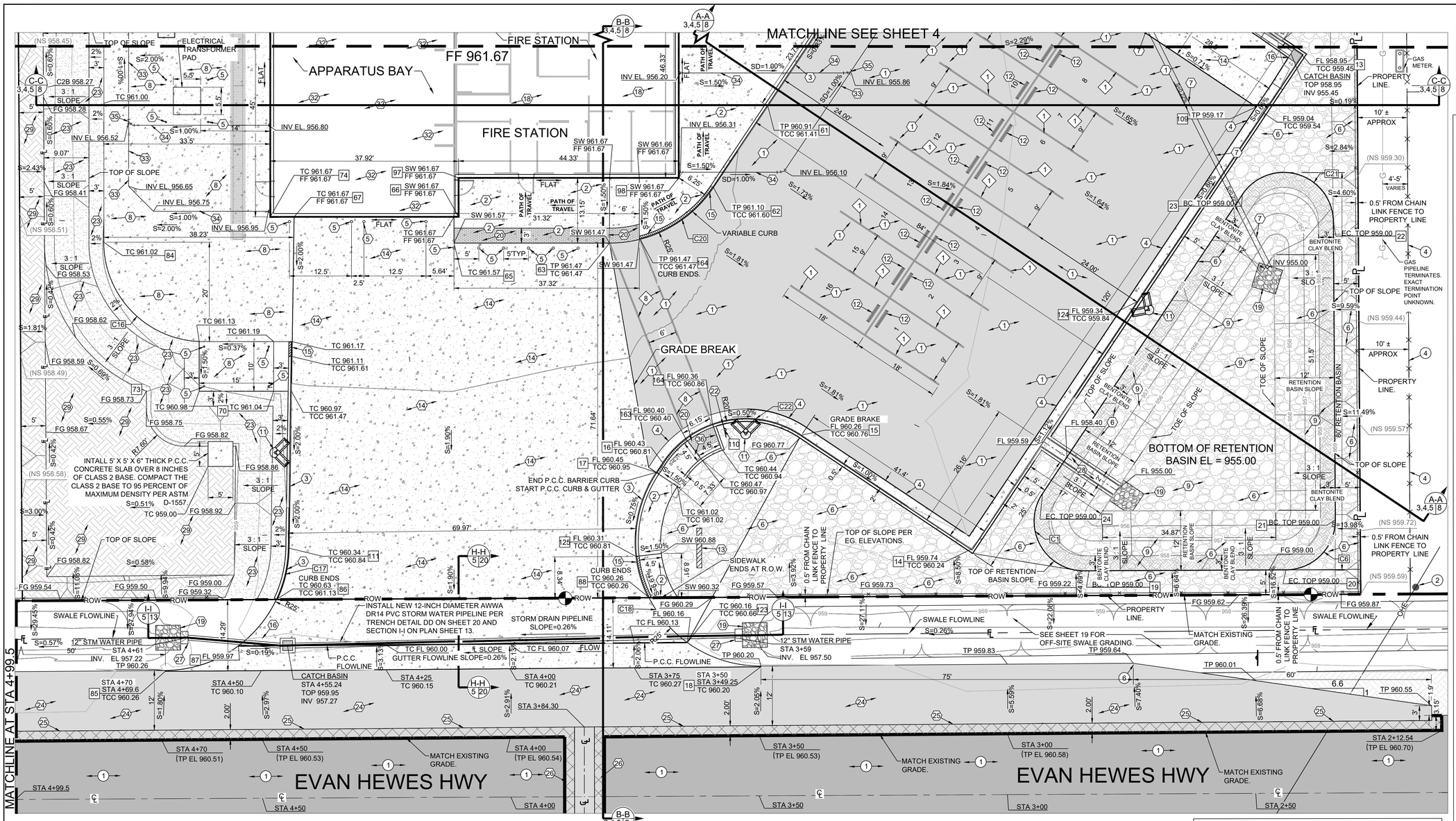

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. ~~EXISTING COMMUNICATION ENCLOSURE TO REMAIN.~~
4. EXISTING FENCE TO REMAIN.
5. ~~EXISTING BUILDING TO REMAIN.~~
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.
7. ~~EXISTING GAS MARKER TO REMAIN.~~

CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 5-INCH P.C.C. SIDEWALK OVER 6-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE DETAIL A ON PLAN SHEET 9.
3. INSTALL P.C.C BARRIER CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 401. SEE DETAIL B ON SHEET 9.
4. INSTALL 6-INCH CURB AND GUTTER OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE MODIFIED IMPERIAL STANDARD DETAIL 400. SEE DETAIL C ON SHEET 9.
5. INSTALL 4-INCH BOLLARDS PER DETAIL N ON SHEET 11.
6. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTERWEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL 12-INCH AWWA C-900 DR18 PVC STORMWATER PIPELINE PER DETAIL DD ON PLAN SHEET 20.
8. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 8-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE 6X6- 6 GAUGE WELDED WIRE REINFORCING FABRIC WITHIN THE 6-INCH THICK P.C.C. CONCRETE 2" ABOVE THE BOTTOM OF THE SLAB.
9. CONSTRUCT STORMWATER RETENTION BASIN PER THE GRADES AND SLOPES ILLUSTRATED ON THE PLANS AND PER SECTIONS AA TO C-C ON SHEET 8. A 12-INCH LAYER OF NATIVE CLAY MATERIAL BLEND WITH BENTONITE SHALL BE INSTALLED BENEATH THE CRUSHED ROCK MATERIAL IN RETENTION BASIN AREAS ABOVE THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE BLEND TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. NO BENTONITE CLAY BLEND REQUIRED FOR NORTHWEST RETENTION BASIN.
10. INSTALL TRASH ENCLOSURE PER DETAIL J ON SHEET 10.
11. INSTALL PARKING LIGHT. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
12. INSTALL BUMPER STOP PER DETAIL G ON SHEET 9.
13. INSTALL MONUMENT SIGN PER DETAIL V ON SHEET 13. PROVIDE ELECTRICAL CIRCUITRY AND DISCONNECT FOR SIGN PER ELECTRICAL PLAN SHEET E1.00.
14. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 12-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER EACH WAY.
15. INSTALL 0" TO 6" HIGH, 3-FOOT LONG (OR AS ILLUSTRATED ON THE IMPROVEMENT PLANS) CURB TRANSITION PER DETAIL W ON SHEET 13.
16. INSTALL 24-INCH X 24-INCH P.C.C. STORMWATER CATCH BASIN WITH GRATE PER DETAIL Y ON SHEET 14.
17. INSTALL STORMWATER MANHOLE PER DETAIL CC ON SHEET 20.
18. INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
19. INSTALL 5 FEET WIDE BY 5 FEET LONG BY 1.5 FOOT DEEP MINIMUM SMALL ROCK (4-INCH) SLOPE PROTECTION PER SECTION 72-4 OF 2018 CALTRANS STANDARD SPECIFICATIONS. USE ROCK GRADATION FOR 7-INCH THICK LAYER. INSTALL RSP FABRIC TYPE "8" UNDERNEATH THE RSP PER SECTIONS 72 AND 96-1.02I OF 2018 CALTRANS STANDARD SPECIFICATIONS
20. INSTALL FEDERAL YELLOW TRUNCATED DOMES PER CALTRANS STANDARD PLAN A88A.
21. INSTALL ADA R99C SIGN PER 2018 CALTRANS STANDARDS PLAN A90A. SIGN SHALL BE GREATER THAN OR EQUAL TO 70 SQUARE INCHES IN AREA IN ACE "VAN - ACCESSIBLE" SIGN PER 2018 CALTRANS STANDARDS PLAN A90A BENEATH THE ADA R99C SIGN.
22. INSTALL ADA R100B SIGN PER 2018 CALTRANS STANDARD PLAN A90A. THE SIGN SHALL BE GREATER THEN OR EQUAL TO 70 X 22 WITH LETTERING NOT LESS THAN OR EQUAL TO 1" INCH HEIGHT.
23. INSTALL CLASS 2 BASE MATERIAL FROM THE TOP OF THE BACK OF CURB AT A 2 PERCENT SLOPE FOR A HORIZONTAL DISTANCE OF 3 FEET, THEN, EXTEND THE CLASS 2 BASE MATERIAL AT A 3 TO 1 MAXIMUM SLOPE TO THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
24. INSTALL 4-INCHES OF A.C. PAVEMENT OVER 12-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
25. COLD PLANE (GRIND) EXISTING A.C. PAVEMENT EDGE AS ILLUSTRATED BY THE CROSS HATCHED AREA FOR A DEPTH OF 0.12 FEET PER DETAIL H ON PLAN SHEET 9.
26. COMPLETE A.C. PAVEMENT INSTALLATION AT THE 6" SDR 26 PVC SANITARY SEWER LATERAL TRENCH PER DETAIL BB ON PLAN SHEET 20.
27. INSTALL P.C.C. HEADWALL PER DETAIL KK IN PLAN SHEET 21.
28. INSTALL 2-FOOT WIDE P.C.C. CURB SPILLWAY PER DETAIL LL ON PLAN SHEET 21.
29. INSTALL NATIVE MATERIAL FROM THE TOP OF THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00 TO THE DESIGN FINISH GRADE SHOWN ON THE GRADING IMPROVEMENT PLAN SHEETS COMPACTED THE NATIVE MATERIAL IN MAXIMUM 7-INCH LIFTS TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
30. EXTEND CONDUIT FROM NEW ELECTRICAL JUNCTION BOX TO FUTURE ELECTRICAL VEHICLE CHARGING STATION LOCATION.
31. INSTALL NEW ELECTRICAL JUNCTION BOX AND CONDUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING STATIONS PER THE CALIFORNIA GREEN BUILDING CODE SECTION 5.106.5.3.
32. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.
33. INSTALL 6-INCH SDR 26 PVC STORMWATER HEADER PIPELINE WITH SDR 26 PVC ELBOWS AS REQUIRED. THE HEADER PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
34. INSTALL 4-INCH SDR 26 PVC STORMWATER PIPELINE AND REQUIRED SDR PVC ELBOWS FROM DOWNSPOUT TO HEADER PIPELINE.VERIFY PIPELINE DIAMETER SIZING WITH DEFEED SUBMITTAL. THE PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
35. INSTALL SDR 6" X 6" X 4" WYE FITTING AND ELBOW FITTINGS AS REQUIRED.
36. INSTALL P.C.C. HANDICAP RAMP PER CALTRANS STANDARD PLAN A88B, CASE CH, LATEST EDITION.

NOTE: SEE HORIZONTAL CONTROL PLAN SHEET 16 FOR COORDINATES OF PAVING, RETENTION BASIN, BUILDING AND SIMILAR INFRASTRUCTURE.

Curve Table

Curve #	Length	Radius	Delta
C1	22.66	10.03	129.38
C2	7.85	5.00	90.00
C3	7.72	5.00	88.42
C4	77.16	50.00	88.42
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C7	78.91	50.00	90.43
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C19	7.85	5.00	90.00
C20	24.54	25.00	56.24
C21	25.46	10.00	145.86
C22	31.65	20.17	89.93

STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER 2018 CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER 2018 CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
7. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
8. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.

NOTE: COMPLETE THE GRADING OF SUBGRADE AND FINISH GRADE SURFACES AS ILLUSTRATED ON PLAN SHEET 4 AND 5 ; SECTION A-A THROUGH C-C ON PLAN SHEET 8 ; AND THE TECHNICAL SPECIFICATIONS.

N

10 0 10 20 30

SCALE 1"= 10'

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PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

GRADING IMPROVEMENT PLAN

C1.05 SHEET 5 OF 23 SHEETS

JOB NO. 542.088

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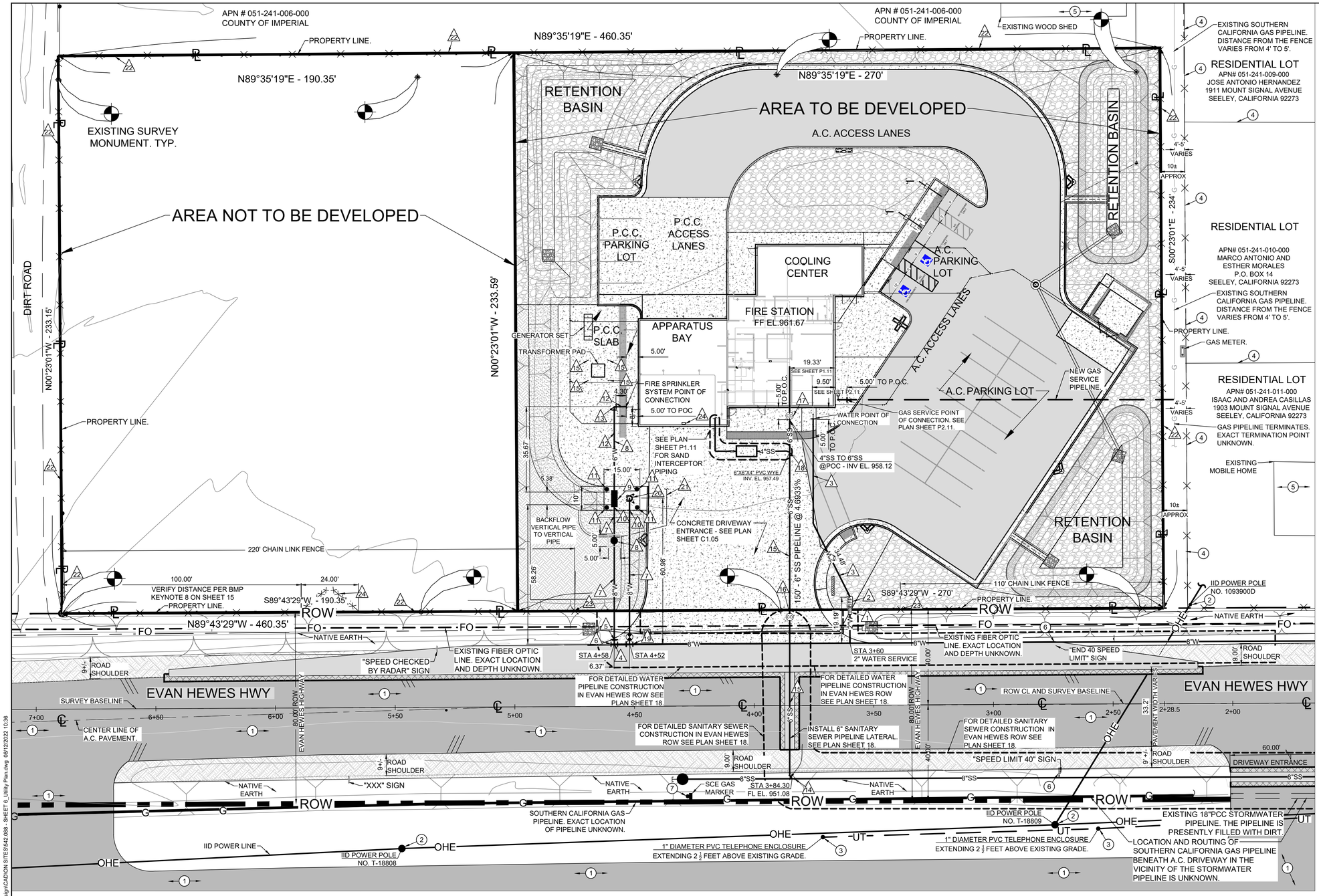

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING COMMUNICATION ENCLOSURE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.

UTILITY CONSTRUCTION KEYNOTES

1. INSTALL 2 INCH WATER SERVICE CONNECTION INCLUDING 2 INCH WATER METER FROM THE NEW 8 INCH WATER MAIN TO THE 2 INCH BACKFLOW PREVENTOR DOWNSTREAM OF THE 2 INCH WATER METER ENCLOSURE. INSTALL THE NEW WATER SERVICE CONNECTION PER DETAIL M ON PLAN SHEET 11.
2. INSTALL 2 INCH BACKFLOW PREVENTOR PER DETAIL L ON PLAN SHEET 11.
3. INSTALL 2 INCH WATER PIPELINE FROM THE BACKFLOW PREVENTER TO THE POINT OF CONNECTION (POC) 5 FEET FROM THE EXTERIOR WALL LINE OF THE FIRE STATION AND COOLING CENTER BUILDING. INSTALL THE 2 INCH WATER PIPELINE PER DETAIL M ON PLAN SHEET 11.
4. INSTALL 8 INCH X 8 INCH X 8 INCH FLANGED DUCTILE IRON TEE FOR FIRE SERVICE PIPELINE.
5. INSTALL 8 INCH DUCTILE IRON FLANGED COUPLING ADAPTERS AND DUCTILE IRON RESTRAINED JOINT FITTINGS ON THE NORTH AND EAST SIDE OF THE DUCTILE IRON TEE.
6. INSTALL 8 INCH DUCTILE IRON BLIND FLANGE.
7. INSTALL 8 INCH AWWA C-900 DR-18 PVC FIRE SPRINKLER SERVICE PIPELINE AND FIRE HYDRANT PIPELINE PER TRENCH DETAIL E ON PLAN SHEET 9.
8. INSTALL POST INDICATOR VALVE PER DETAIL S ON SHEET 11.
9. INSTALL 6 INCH FIRE SPRINKLER SERVICE LINE BACKFLOW PREVENTOR WITH FDC PER DETAIL K ON PLAN SHEET 11.
10. INSTALL 6 INCH X 8 INCH DUCTILE IRON REDUCER IMMEDIATELY UPSTREAM OF THE FIRE SERVICE LINE BACKFLOW PREVENTOR.
11. INSTALL 4-INCH DIAMETER STEEL BOLLARDS PER DETAIL O ON SHEET 11.
12. INSTALL 6 INCH AWWA C-900 DR18 PVC FIRE SPRINKLER SERVICE PIPELINE PER DETAIL D ON PLAN SHEET 9.
13. INSTALL 6 INCH DUCTILE IRON MECHANICAL JOINT 90 DEGREE ELBOW WITH 6 INCH DUCTILE IRON RESTRAINED JOINT FITTINGS ON THE UPSTREAM AND DOWNSTREAM SIDES OF THE 90 DEGREE ELBOW. INSTALL TWO (2) 6 INCH DUCTILE IRON RESTRAINED JOINT FITTINGS.
14. INSTALL A NEW 8 INCH X 8 INCH X 6 INCH SDR 26 PVC WYE FITTING ALONG THE NEW 8 INCH SDR 26 PVC SANITARY SEWER PIPELINE TO SERVICE THE FIRE STATION AND COOLING CENTER BUILDING.
15. INSTALL A NEW 6 INCH SDR 26 PVC SANITARY SEWER LATERAL PIPELINE AT A 4.693 PERCENT SLOPE FROM THE NEW 8 INCH SANITARY SEWER PIPELINE TO THE POINT OF CONNECTION (POC) LOCATED 5 FOOT OUTSIDE OF THE FIRE STATION AND COOLING CENTER BUILDING WALL LINE. SEE PLAN SHEET 18 FOR THE PIPELINE INSTALLATION IN EVAN HEWES RIGHT OF WAY. INSTALL THE PIPELINE WITHIN THE PROJECT BOUNDARY PER DETAIL I ON PLAN SHEET 9.
16. INSTALL 6 INCH CLEANOUT AT THE RIGHT OF WAY/PROPERTY LINE PER DETAIL R ON PLAN SHEET 11.
17. INSTALL SANITARY SEWER LATERAL DOUBLE CLEANOUT PER DETAIL P ON PLAN SHEET 11.
18. INSTALL 6 INCH X 6 INCH X 4 INCH SDR 26 PVC WYE FITTING FOR CONNECTION TO 4 INCH PVC INTERCEPTOR PIPELINE.
19. INSTALL 8 INCH X 8 INCH X 8 INCH DUCTILE IRON FLANGED TEE AND 8 INCH RESILIENT WEDGE GATE VALVE PER PLAN DETAIL N ON SHEET 11. INSTALL A TOTAL OF THREE (3) DUCTILE IRON RESTRAINED JOINT FITTINGS ON THE EAST AND WEST SIDE OF THE TEE AND NORTH OF THE RESILIENT WEDGE GATE VALVE. INSTALL THREE (3) DUCTILE IRON FLANGED COUPLING ADAPTERS.
20. INSTALL 6 INCH COMMERCIAL FIRE HYDRANT ASSEMBLY PER DETAIL T ON PLAN SHEET 11. INSTALL 6 INCH X 8 INCH DUCTILE IRON REDUCER IMMEDIATELY UPSTREAM OF THE DUCTILE IRON FIRE HYDRANT BURY.
21. INSTALL 3/4-INCH PVC CONDUIT AND CONDUCTORS TO FIRE ALARM CONTROL PANEL.
22. INSTALL NEW CHAIN LINK FENCE PER DETAIL U ON SHEET 12.
23. END OF NEW CHAIN LINK FENCE.
24. INSTALL NEW FIRE TRUCK SIGN FLASHING BEACON TRANSMITTER AND PUSH BUTTON SWITCH ENCLOSURE TO ACTIVE NEW FIRE TRUCK SIGNS ALONG EVAN HEWES HIGHWAY AS ILLUSTRATED ON PLAN SHEET 23. A 120 VOLT, 1 PHASE RECEPTACLE IS ILLUSTRATED TO BE PLACED AT THE TRANSMITTER AND PUSH BUTTON ENCLOSURE LOCATION TO POWER THE TRANSMITTER. THE TRANSMITTER SHALL BE DELIVERED WITH A CORD TO EXTENDED BETWEEN THE TRANSMITTER AND AN ANTENNA TO BE MOUNTED ALONG THE SOUTH WALL OF THE APPARATUS BAY ABOVE THE TRANSMITTER.THE FIRE TRUCK FIRE TRUCK SIGN FLASHING BEACON, ANCILLARY SIGNS BELOW THE FIRE TRUCK SIGN, SIGN POST, TRANSMITTER , PUSH BUTTON SWITCH ENCLOSURE, POWER CORD, AND ANTENNA ARE TO BE SUPPLIED BY THE SAME MANUFACTURE / SUPPLIER. SEE THE SPECIFICATIONS.

N

20 0 20 40 60

SCALE 1"= 20'

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07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

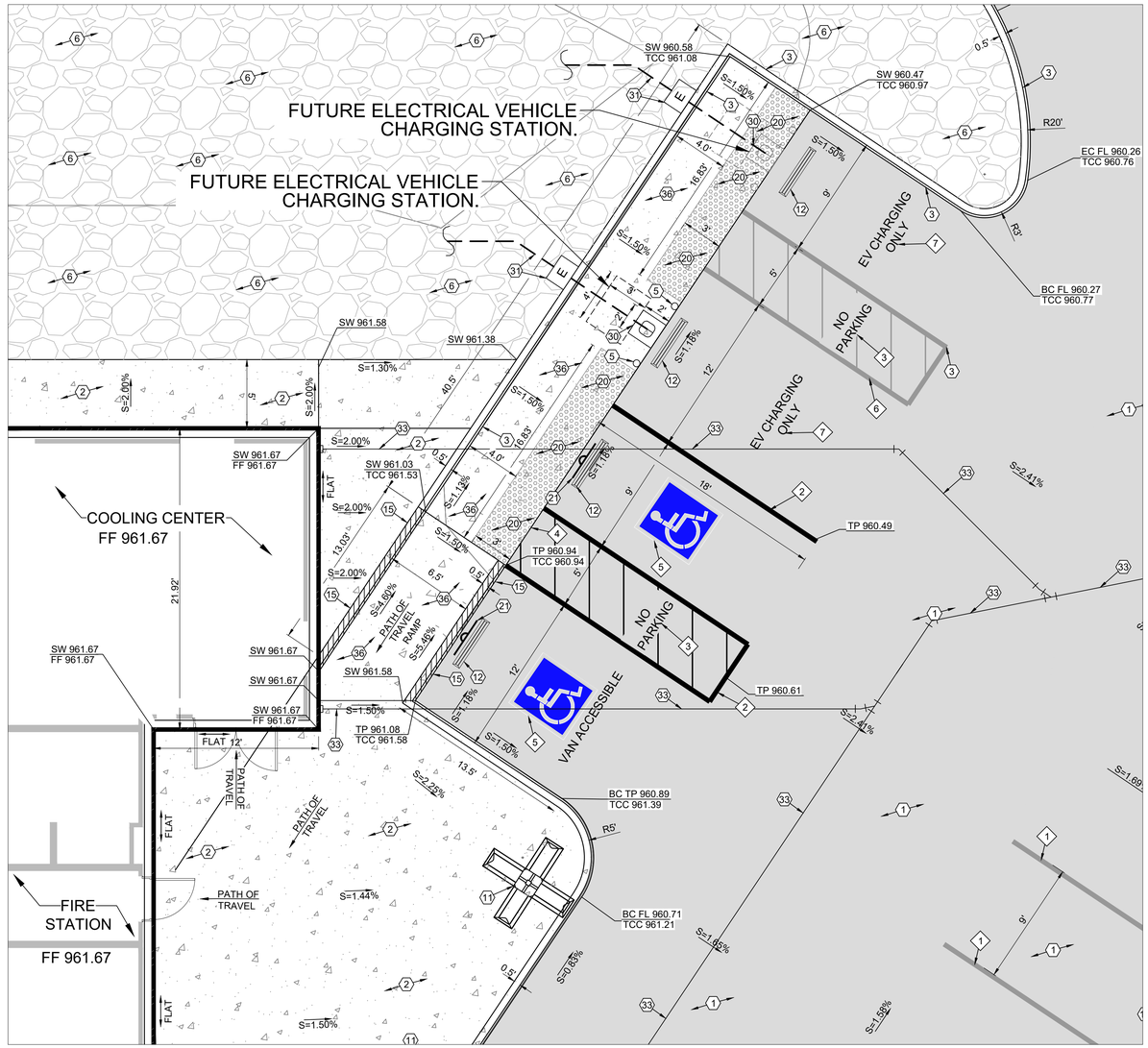
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

FENCING AND UTILITY PLAN

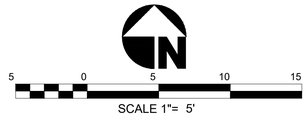
C1.06 SHEET 6 OF 23 SHEETS

JOB NO. 542.088



HANDICAP PARKING LOT BLOW-UP DETAIL

SCALE: 1" = 5'



CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 5-INCH P.C.C. SIDEWALK OVER 6-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. SEE DETAIL A ON PLAN SHEET 9.
3. INSTALL P.C.C.BARRIER CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 401, SEE DETAIL B ON SHEET 9.
4. INSTALL 6-INCH CURB AND GUTTER OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE MODIFIED IMPERIAL STANDARD DETAIL 400. SEE DETAIL C ON SHEET 9.
5. ~~INSTALL 4-INCH BOLLARDS PER DETAIL N ON SHEET 11.~~
6. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557.
7. ~~INSTALL 12-INCH AWWA C-900 DR18 PVC STORMWATER PIPELINE PER DETAIL DD ON PLAN SHEET 20.~~
8. ~~INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 8-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE 6X6- 6 GAUGE WELDED WIRE REINFORCING FABRIC WITHIN THE 6-INCH THICK P.C.C. CONCRETE 2" ABOVE THE BOTTOM OF THE SLAB.~~
9. CONSTRUCT STORMWATER RETENTION BASIN PER THE GRADES AND SLOPES ILLUSTRATED ON THE PLANS AND PER SECTIONS ~~A-A~~ TO ~~C-C~~ ON SHEET 8. A 12-INCH LAYER OF NATIVE CLAY MATERIAL BLEND WITH BENTONITE SHALL BE INSTALLED BENEATH THE CRUSHED ROCK MATERIAL IN RETENTION BASIN AREAS ABOVE THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE BLEND TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. NO BENTONITE CLAY BLEND REQUIRED FOR NORTHWEST RETENTION BASIN.
10. ~~INSTALL TRASH ENCLOSURE PER DETAIL J ON SHEET 10.~~
11. INSTALL PARKING LIGHT. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
12. INSTALL BUMPER STOP PER DETAIL G ON SHEET 9.
13. ~~INSTALL MONUMENT SIGN PER DETAIL V ON SHEET 13. PROVIDE ELECTRICAL CIRCUITRY AND DISCONNECT FOR SIGN PER ELECTRICAL PLAN SHEET E1.00.~~
14. ~~INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 12-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER~~ EACH WAY.
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16. ~~INSTALL 24-INCH X 24-INCH P.C.C. STORMWATER CATCH BASIN WITH GRATE PER DETAIL Y ON SHEET 14.~~
17. ~~INSTALL~~ STORMWATER MANHOLE PER DETAIL ~~CC ON SH~~EET 20.
18. ~~INSTALL 6-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.~~
19. ~~INSTALL 5 FEET WIDE BY 5 FEET LONG BY 1.5 FOOT DEEP MINIMUM SMALL ROCK (4-INCH) SLOPE PROTECTION PER SECTION 72-4 OF 2018 CALTRANS STANDARD SPECIFICATIONS. USE ROCK GRADATION FOR 7-INCH THICK LAYER. INSTALL RSP FABRIC TYPE "S" UNDERNEATH THE RSP PER SECTIONS 72 AND 96-1.02I OF 2018 CALTRANS STANDARD SPECIFICATIONS.~~
20. INSTALL FEDERAL YELLOW TRUNCATED DOMES PER CALTRANS STANDARD PLAN A88A.
21. INSTALL ADA R99C SIGN PER 2018 CALTRANS STANDARDS PLAN A90A. SIGN SHALL BE GREATER THAN OR EQUAL TO 70 SQUARE INCHES IN AREA. PLACE "VAN - ACCESSIBLE " SIGN PER 2018 CALTRANS STANDARDS PLAN A90A BENEATH THE ADA R99C SIGN.
22. INSTALL ADA R100B SIGN PER 2018 CALTRANS STANDARD PLAN A90A. THE SIGN SHALL BE GREATER THEN OR EQUAL TO 70' X 22' WITH LETTERING NOT LESS THAN OR EQUAL TO 1" INCH HEIGHT.
23. ~~INSTALL CLASS 2 BASE MATERIAL FROM THE TOP OF THE BACK OF CURB AT A 2 PERCENT SLOPE FOR A HORIZONTAL DISTANCE OF 3 FEET, THEN, EXTEND THE CLASS 2 BASE MATERIAL AT A 3 TO 1 MAXIMUM SLOPE TO THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.~~
24. ~~INSTALL 4-INCHES OF A.C. PAVEMENT OVER 12-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.~~
25. ~~COLD PLANE (GRIND) EXISTING A.C. PAVEMENT EDGE AS ILLUSTRATED BY THE CROSS HATCHED AREA FOR A DEPTH OF 0.12 FEET PER DETAIL H ON PLAN SHEET 9.~~
26. ~~COMPLETE A.C. PAVEMENT INSTALLATION AT THE 6" SDR 26 PVC SANITARY SEWER LATERAL TRENCH PER DETAIL BB ON PLAN SHEET 20.~~
27. ~~INSTALL P.C.C. HEADWALL PER DETAIL KK IN PLAN SHEET 21.~~
28. ~~INSTALL 2-FOOT WIDE P.C.C. CURB SPILLWAY PER DETAIL LL ON PLAN SHEET 21.~~
29. ~~INSTALL NATIVE MATERIAL FROM THE TOP OF THE ESTABLISHED FINISH GRADE ELEVATION OF 958.00 TO THE DESIGN FINISH GRADE SHOWN ON THE GRADING IMPROVEMENT PLAN SHEETS. COMPACTED THE NATIVE MATERIAL IN MAXIMUM 7-INCH LIFTS TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.~~
30. EXTEND CONDUIT FROM NEW ELECTRICAL JUNCTION BOX TO FUTURE ELECTRICAL VEHICLE CHARGING STATION LOCATION.
31. INSTALL NEW ELECTRICAL JUNCTION BOX AND CONDUIT FOR FUTURE ELECTRICAL VEHICLE CHARGING STATIONS PER THE CALIFORNIA GREEN BUILDING CODE SECTION 5.106.5.3.
32. ~~INSTALL 8-INCHES OF P.C.C. CONCRETE OVER 36-INCHES OF GRANULAR SAND MATERIAL TO 95 PERCENT MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES CENTER EACH WAY.~~
33. INSTALL 6-INCH SDR 26 PVC STORMWATER HEADER PIPELINE WITH SDR 26 PVC ELBOWS AS REQUIRED. THE HEADER PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
34. INSTALL 4-INCH SDR 26 PVC STORMWATER PIPELINE AND REQUIRED SDR PVC ELBOWS FROM DOWNSPOUT TO HEADER PIPELINE VERIFY PIPELINE DIAMETER SIZING WITH DEFEED SUBMITTAL. THE PIPELINE TRENCH SHALL BE BACKFILLED WITH CLASS 2 BASE AND COMPACTED IN 9-INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
35. INSTALL SDR 6" X 6" X 4" WYE FITTING AND ELBOW FITTINGS AS REQUIRED.
36. INSTALL P.C.C. HANDICAP RAMP PER CALTRANS STANDARD PLAN A88B, CASE CH, LATEST EDITION.

STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER 2018 CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER 2018 CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER 2018 CALTRANS STANDARD PLAN A90A.
7. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
8. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.

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DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
HANDICAP PARKING LOT BLOW-UP DETAIL

C1.07 SHEET
7 OF 23 SHEETS
JOB NO. 542.088

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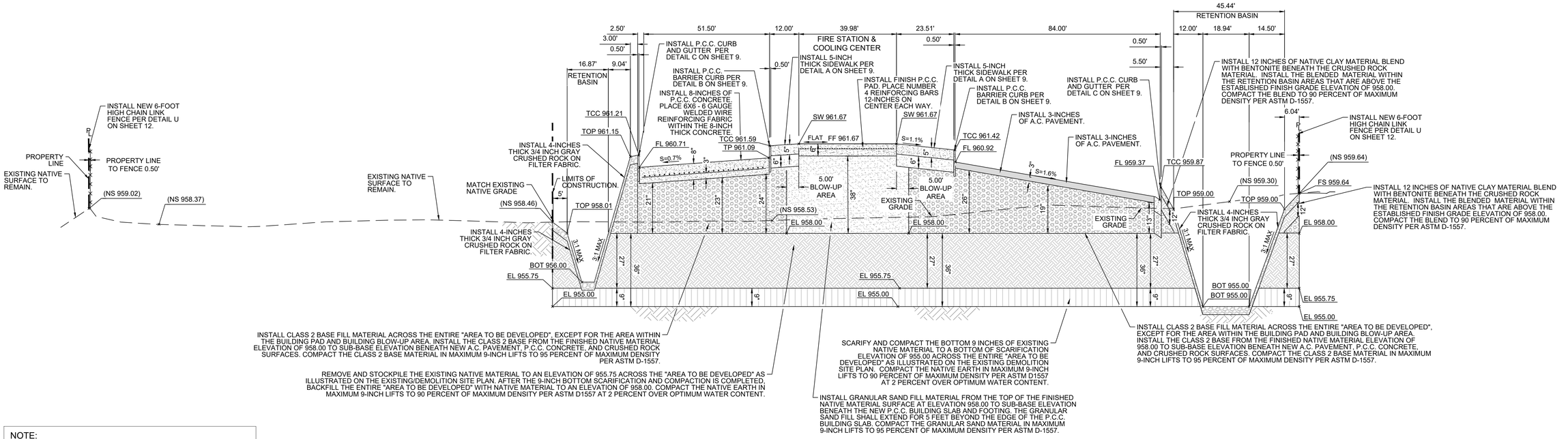


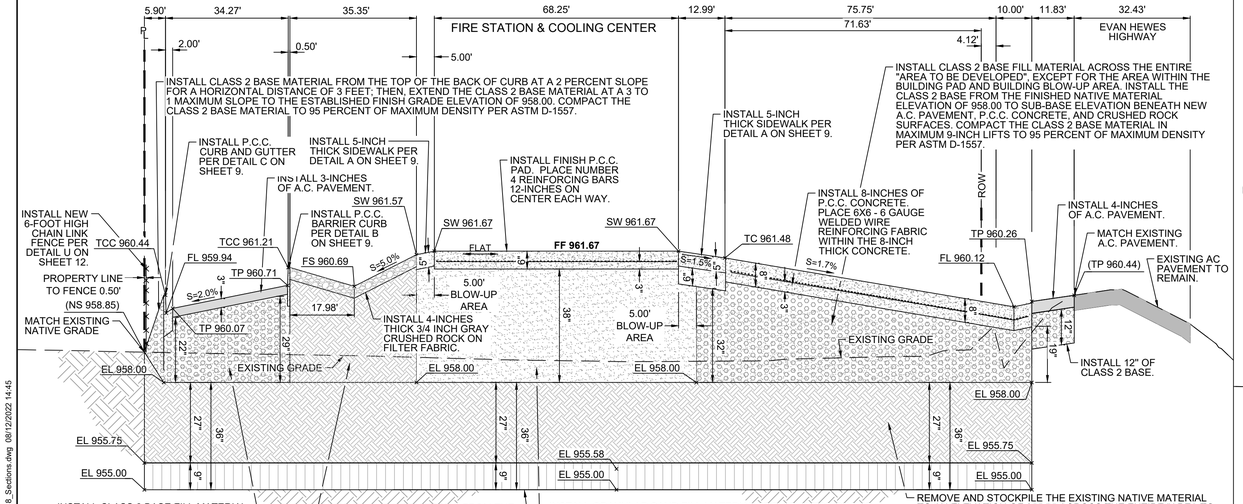
NOTE:

ADDITIONAL NATIVE MATERIAL, GRANULAR SAND OR CLASS 2 BASE BACKFILL LIFTS SHALL NOT BE PLACED UNTIL PREVIOUS LIFTS HAVE BEEN SATISFACTORILY COMPACTED AND APPROVED BY THE CONSTRUCTION MANAGER AND GEOTECHNICAL ENGINEER.

GRADING AND FINISH SURFACE SECTION A-A

3,4,5 | 8

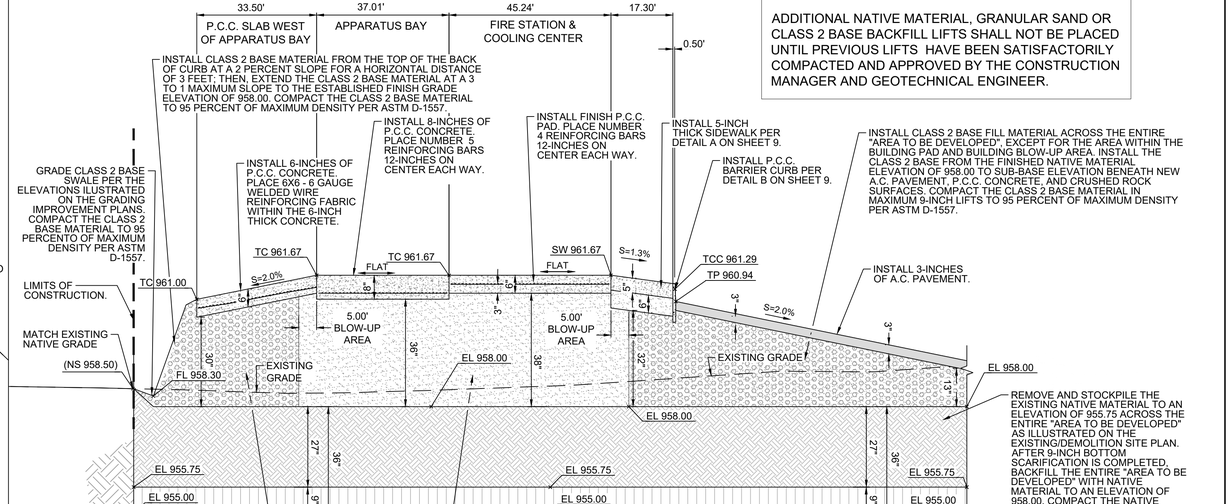
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"



GRADING AND FINISH SURFACE SECTION B-B

3,4,5 | 8

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"



NOTE:

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GRADING AND FINISH SURFACE SECTION C-C

3,5 | 8

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"

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REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

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PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

GRADING AND FINISH SURFACE SECTIONS

C1.08 SHEET 8 OF 23 SHEETS

JOB NO. 542.088

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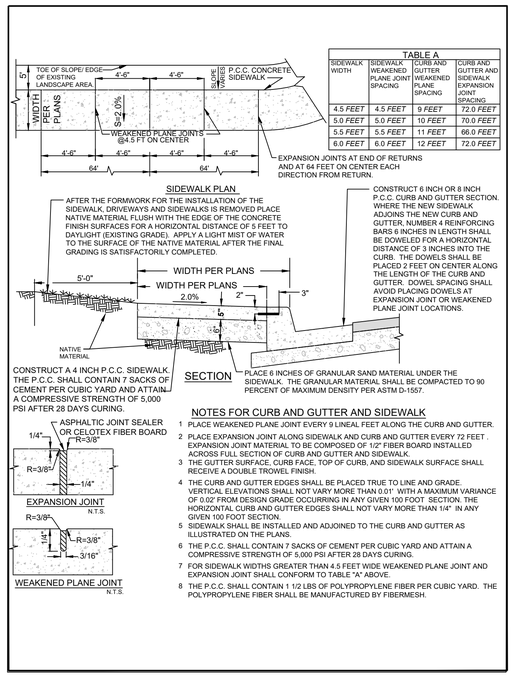


TABLE A

SIDEWALK WIDTH	SIDEWALK WEAKENED PLANE JOINT SPACING	CURB AND GUTTER WEAKENED PLANE SPACING	CURB AND GUTTER AND SIDEWALK EXPANSION JOINT SPACING
4.5 *FEET*	4.5 *FEET*	9 *FEET*	72.0 *FEET*
5.0 *FEET*	5.0 *FEET*	10 *FEET*	70.0 *FEET*
5.5 *FEET*	5.5 *FEET*	11 *FEET*	66.0 *FEET*
6.0 *FEET*	6.0 *FEET*	12 *FEET*	72.0 *FEET*

SIDEWALK PLAN

AFTER THE FORMWORK FOR THE INSTALLATION OF THE SIDEWALK, DRIVEWAYS AND SIDEWALKS IS REMOVED PLACE NATIVE MATERIAL FLUSH WITH THE EDGE OF THE CONCRETE FINISH SURFACES FOR A HORIZONTAL DISTANCE OF 5 FEET TO DAYLIGHT (EXISTING GRADE). APPLY A LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER THE FINAL GRADING IS SATISFACTORILY COMPLETED.

CONSTRUCT 6 INCH OR 8 INCH P.C.C. CURB AND GUTTER SECTION. WHERE THE NEW SIDEWALK ADJOINS THE NEW CURB AND GUTTER, NUMBER 4 REINFORCING BARS 6 INCHES IN LENGTH SHALL BE DOWELED FOR A HORIZONTAL DISTANCE OF 3 INCHES INTO THE CURB. THE DOWELS SHALL BE PLACED 2 FEET ON CENTER ALONG THE LENGTH OF THE CURB AND GUTTER. DOWEL SPACING SHALL AVOID PLACING DOWELS AT EXPANSION JOINT OR WEAKENED PLANE JOINT LOCATIONS.

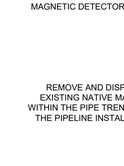
CONSTRUCT A 4 INCH P.C.C. SIDEWALK. THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.

SECTION

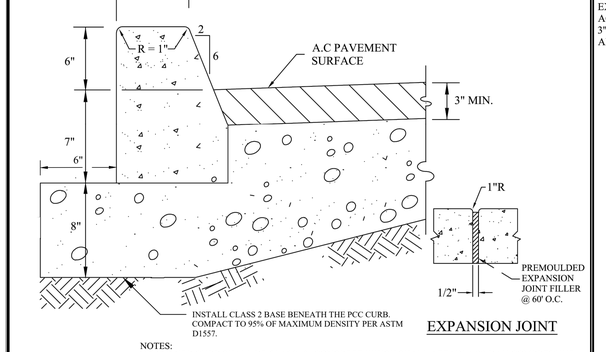
PLACE 6 INCHES OF GRANULAR SAND MATERIAL UNDER THE SIDEWALK. THE GRANULAR MATERIAL SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.

NOTES FOR CURB AND GUTTER AND SIDEWALK

1. PLACE WEAKENED PLANE JOINT EVERY 9 LINEAL FEET ALONG THE CURB AND GUTTER.
2. PLACE EXPANSION JOINT ALONG SIDEWALK AND CURB AND GUTTER EVERY 72 FEET . EXPANSION JOINT MATERIAL TO BE COMPOSED OF 1/2" FIBER BOARD INSTALLED ACROSS FULL SECTION OF CURB AND GUTTER AND SIDEWALK.
3. THE GUTTER SURFACE, CURB FACE, TOP OF CURB, AND SIDEWALK SURFACE SHALL RECEIVE A DOUBLE TROWEL FINISH.
4. THE CURB AND GUTTER EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN 0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FOOT SECTION. THE HORIZONTAL CURB AND GUTTER EDGES SHALL NOT VARY MORE THAN 1/4" IN ANY GIVEN 100 FOOT SECTION.
5. SIDEWALK SHALL BE INSTALLED AND ADJOINED TO THE CURB AND GUTTER AS ILLUSTRATED ON THE PLANS.
6. THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
7. FOR SIDEWALK WIDTHS GREATER THAN 4.5 FEET WIDE WEAKENED PLANE JOINT AND EXPANSION JOINT SHALL CONFORM TO TABLE "A" ABOVE.
8. THE P.C.C. SHALL CONTAIN 1 1/2 LBS OF POLYPROPYLENE FIBER PER CUBIC YARD. THE POLYPROPYLENE FIBER SHALL BE MANUFACTURED BY FIBERMESH.



SIDEWALK DETAIL
(COI STANDARD DETAIL 420) NTS — A — 4,5,8 | 9

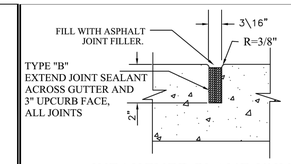


NOT TO SCALE

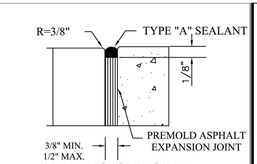
EXPANSION JOINT

NOTES:
1. BARRIER CURB SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E.
2. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICATED.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10-FOOT INTERVALS, EXCEPT THAT THE INTERVAL SHALL BE VARIED TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS.
4. CURING COMPOUND SHALL BE CURE-TREAT (CONCRETE CONDITIONER AND CURING AID) AS MANUFACTURED BY W.R. MEADOWS INC OR APPROVED EQUAL. COMPOUND SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMENDATION.
5. WHEN BARRIER CURB IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAWCUT.
6. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
7. ALL EXPOSED SURFACES TO HAVE A SMOOTH TROWEL FINISH. DRY SACK FINISH WILL NOT BE ALLOWED.
8. THE CURB EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN +0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FEET SECTION. THE HORIZONTAL CURB EDGES SHALL NOT VARY MORE THAN 1/4" INCH IN ANY GIVEN 100 FOOT SECTION.

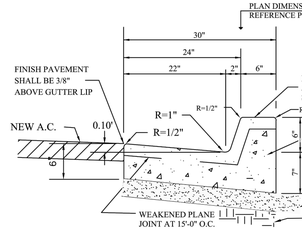
BARRIER CURB DETAIL
(COI STANDARD DETAIL 401) NTS — B — 4,5,8,10 | 9



WEAKENED PLANE JOINT
AT 15'-0" O.C. (TYP.)



EXPANSION JOINT
AT 45'-0" O.C. (TYP.)

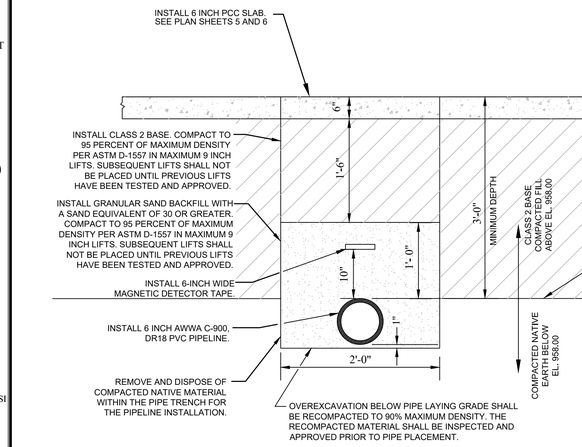


NOT TO SCALE

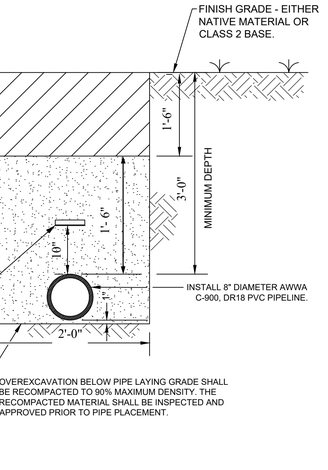
CURB AND GUTTER SECTION

NOTES
1. EXPANSION JOINTS TO BE INSTALLED AT ALL B.C.'S, E.C.'S CURB RETURNS AND STRUCTURES IN ADDITION TO 45' O.C.
2. CURB AND GUTTER SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E
3. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICTAED.
4. CURING COMPOUND SHALL BE SPRAYED UNIFORMLY ON EXPOSED SURFACES. HYDRO-CURE CLEAR CC-309-1W, OR APPROVED EQUAL.
5. WHEN CURB AND GUTTER IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAWCUT.
6. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
7. ALL EXPOSED SURFACES TO HAVE A SMOOTH TROWEL FINISH. DRY SACK FINISH WILL NOT BE ALLOWED.
8. THE CURB EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN +0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FEET SECTION. THE HORIZONTAL CURB EDGES SHALL NOT VARY MORE THAN 1/4" INCH IN ANY GIVEN 100 FOOT SECTION.

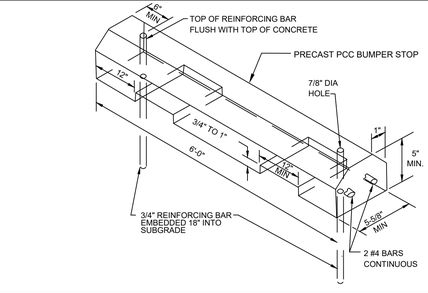
MODIFIED CURB AND GUTTER DETAIL
(COI STANDARD DETAIL 400) NTS — C — 4,5,8 | 9



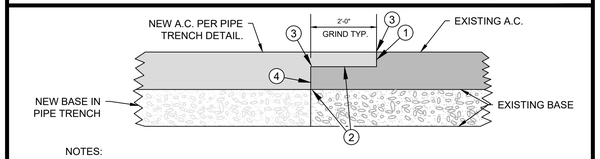
DOMESTIC WATER TRENCH DETAIL
NTS — D — 6 | 9



FIRE SPRINKLER SERVICE PIPELINE AND FIRE HYDRANT PIPELINE TRENCH IN NATIVE EARTH AND CLASS 2 BASE AREAS - DETAIL NTS
E — 4,5,6 | 9

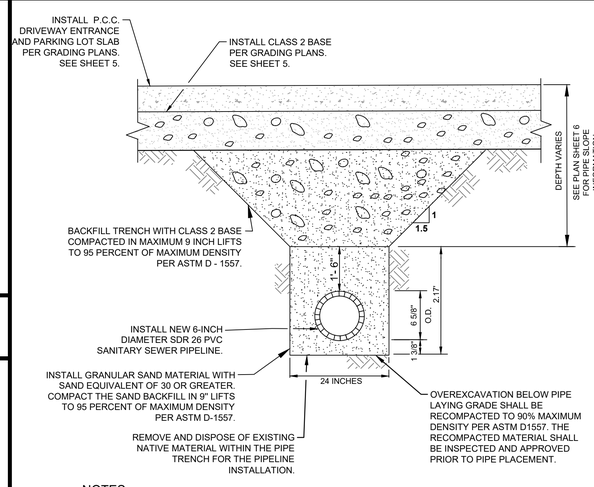


PRECAST P.C.C. BUMPER STOP
NTS — G — 4-5 | 9



NOTES:
1. GRIND 4' WIDE X 0.12' DEEP HEADER FULL LENGTH OF JOINT.
2. TACK COAT ENTIRE SURFACE WITH AR 1000 PAVING ASPHALT AT AN APPROXIMATE RATE OF 0.05 GALLON PER SQUARE YARD OR GRADE SS-IH EMULSIFIED ASPHALT AT AN APPROXIMATE RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE UNIFORMLY APPLIED UPON THE EXISTING PAVEMENT PRECEDING THE PLACEMENT OF THE ASPHALT CONCRETE. THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL OR DUST, WHEN THE TACK COAT IS APPLIED.
3. OVERLAY HEADER AREA TO MATCH NEW & EXISTING A.C. SURFACES. WHERE PAVEMENT IS INSTALLED ON A PROJECT ON MORE THAN ONE DAY, A HEADER (AS HERE IS DESCRIBED) MUST BE PROVIDED AT THE CONSTRUCTION JOINT.
4. SAWCUT A.C. PAVEMENT FOR FULL DEPTH OF A.C. PAVEMENT AFTER COMPLETION OF A.C. PAVEMENT GRINDING.

NEW CONSTRUCTION PAVEMENT EXTENSION JOINT
COUNTY OF IMPERIAL MODIFIED STANDARD DETAIL 453 NTS — H — 4,5,20 | 9



NOTES:
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA
   A) SHORING AS APPROVED BY THE ENGINEER.
   B) SLOPING BOTH TRENCH SIDES AT A 1.5:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1.5 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

SANITARY SEWER LATERIAL PIPELINE TRENCH ACROSS P.C.C. D/W ENTRANCE AND PARKING LOT - DETAIL NTS
I — 5-6 | 9

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REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

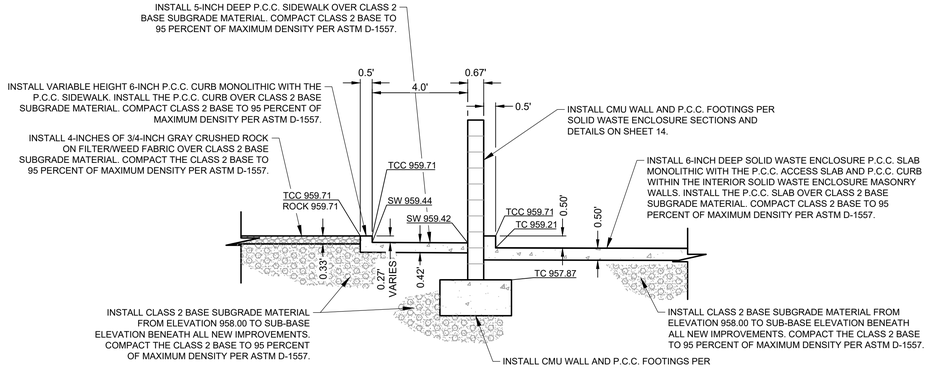
SHEET CONTENT:
WATER, SANITARY SEWER, PAVING AND SITE GRADING DETAIL SHEET

C1.09 SHEET 9 OF 23 SHEETS

JOB NO. 542.088

CONSTRUCTION KEYNOTES

1. INSTALL 3-INCHES OF A.C. PAVEMENT OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL 6-INCH CURB AND GUTTER OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
3. INSTALL DEPRESSED P.C.C. CURB AND GUTTER PER DETAIL JJ ON PLAN SHEET 21.
4. INSTALL 8-INCHES OF P.C.C. CONCRETE OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12-INCHES ON CENTER EACH WAY 2 ½-INCHES ABOVE THE BOTTOM OF THE P.C.C. SLAB.
5. INSTALL 24-INCH X 24-INCH P.C.C. STORM WATER CATCH BASIN WITH GRATE PER DETAIL Y ON PLAN SHEET 14.
6. INSTALL MASONRY WALL, BELOW GRADE P.C.C. FOOTING AND CLASS 2 BASE FOOTING SUPPORT MATERIAL PER DETAIL X ON PLAN SHEET 14.
7. INSTALL 6-INCH P.C.C. CURB MONOLITHIC WITH THE P.C.C. ACCESS SLAB AND SOLIDS WASTE ENCLOSURE P.C.C. SLAB WITHIN THE SOLID WASTE ENCLOSURE MASONRY WALLS. PLACE THE P.C.C. CURB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
8. INSTALL 6-INCH DEEP SOLID WASTE ENCLOSURE P.C.C. SLAB MONOLITHIC WITH THE P.C.C. ACCESS SLAB AND P.C.C. CURB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL THE P.C.C. SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
9. INSTALL 12-INCH DEEP P.C.C. ACCESS SLAB. INSTALL THE ACCESS SLAB MONOLITHIC WITH THE P.C.C. CURB AND SOLID WASTE ENCLOSURE SLAB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL THE P.C.C. ACCESS SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
10. INSTALL 5-INCH DEEP P.C.C. SIDEWALK OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
11. INSTALL VARIABLE HEIGHT 6-INCH P.C.C. CURB MONOLITHIC WITH THE P.C.C. SIDEWALK PER SECTION A-A ON THIS PLAN SHEET. CURB VARIES FROM A HEIGHT OF 0.47 FEET ABOVE THE P.C.C. SIDEWALK TO A POINT AT THE SAME ELEVATION OF THE SIDEWALK IN 14 FEET. INSTALL THE P.C.C. CURB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
12. INSTALL 6-FOOT HIGH CHAIN LINK SWING GATES WITH VINYL PRIVACY SLATS PER FENCING PLAN SHEET 12. BOLT EACH FENCE POST TO THE MASONRY WALLS WITH A MINIMUM OF FOUR (4) EQUALLY SPACED 3/8-INCH, 8-INCH LONG GALVANIZED BOLTS. EPOXY THE BOLTS INTO THE MASONRY WALL. PROVIDE A PLUNGER ROD CATCH PIPE CAST WITHIN THE P.C.C. SLAB. THE GATES SHALL BE CAPABLE OF BEING PADLOCKED.
13. INSTALL 3/4-INCH WIDE X 3/8-INCH DEEP POLYURETHANE JOINT SEALANT ALONG THE P.C.C. CURB, SLABS AND SIDEWALK CONNECTION POINTS TO THE MASONRY WALLS. ALSO INSTALL THE POLYURETHANE JOINT SEALANT BETWEEN THE P.C.C. SOLIDS WASTE ENCLOSURE SLAB AND THE P.C.C. DEPRESSED CURB AND GUTTER. THE JOINT SEALANT SHALL BE A ONE-COMPONENT, SELF LEVELING, POLYURETHANE-BASED MATERIAL. IT SHALL BE APPLIED ALONG HORIZONTAL JOINTS. THE SEALANT SHALL PRINCIPALLY CURE UNDER THE INFLUENCE OF ATMOSPHERIC MOISTURE TO FORM AN ELASTOMERIC SUBSTANCE. THE SEALANT SHALL CONFORM TO FEDERAL SPECIFICATION TT-S-00230C, TYPE 1, CLASS A. THE SEALANT SHALL CONFORM TO ASTM C-920, TYPE S, GRADE P, CLASS 25. INSTALL BOND BREAKER TAPE IN THE BOTTOM OF ALL JOINTS TO PREVENT THREE-SIDED BONDING DURING THERMAL MOVEMENT. INSTALL THE SEALANT PER MANUFACTURERS SPECIFICATION SHEETS.
14. INSTALL 4-INCHES OF 3/4-INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
15. INSTALL 6-INCH P.C.C. BARRIER CURB OVER CLASS 2 BASE SUBGRADE MATERIAL PER DETAIL B ON SHEET 9. INSTALL THE P.C.C. BARRIER CURB ADJACENT TO THE NEW STORM WATER CATCH BASIN.



SECTION A-A
NTS

SOLID WASTE ENCLOSURE DETAIL J 4 10

1"=3'

NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

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PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

SOLID WASTE ENCLOSURE PLAN

C1.10 SHEET

10 OF 23 SHEETS

JOB NO. 542.088

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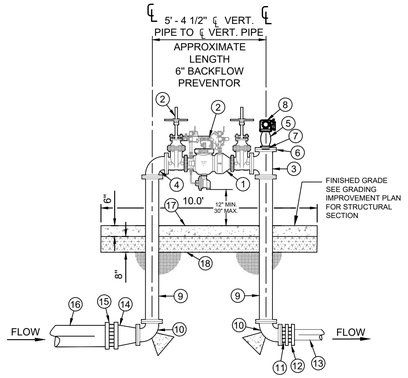

NOTES:

1. INSTALL A ZURN WILKINS MODEL 375 ADA 6-INCH BACKFLOW PREVENTOR WITH OS & Y GATE VALVES AND OTHER ACCESSORIES.
2. OS & Y GATE VALVE TAMPER SWITCH NOT REQUIRED FOR THIS PROJECT. IMPERIAL COUNTY FIRE DEPARTMENT WILL SECURE THE OS & Y VALVE POSITION WITH A CHAIN AND LOCK.
3. INSTALL 6" X 6" X 6" - FL X FL X FL DUCTILE IRON TEE.
4. INSTALL 6-INCH DIAMETER DUCTILE IRON FL X FL 90 DEGREE ELBOW.
5. INSTALL 4-INCH ZURN WILKINS MODEL F210 CHECK VALVE.
6. INSTALL 6-INCH DUCTILE IRON FLANGE WITH THREADED OUTLET.
7. INSTALL 4-INCH DIAMETER THREADED DI PIPE EXTENSION.
8. INSTALL 6315 GUARDIAN (SPRINKLER) FIRE DEPARTMENT INLET CONNECTION (FDC).
9. INSTALL 6" FLANGED DUCTILE IRON PIPE.
10. INSTALL 6-INCH DIAMETER DUCTILE IRON FLANGED 90 DEGREE ELBOW WITH FITTINGS AND P.C.C. THRUST BLOCK.
11. INSTALL 6" DUCTILE IRON FLANGED COUPLING ADAPTER.
12. INSTALL 6" DUCTILE IRON RESTRAINED JOINT FITTING.
13. INSTALL 6" AWWA C-900, DR 18 PVC PIPELINE.
14. INSTALL 6" X 8" DUCTILE IRON FLANGED REDUCER.
15. INSTALL 8 INCH DUCTILE IRON FLANGED COUPLING ADAPTER.
16. INSTALL 8" AWWA C-900 DR18 PVC WATER PIPELINE.
17. INSTALL 10' X 15' X 6" DEEP P.C.C. CONCRETE SLAB WITH 6X6 -6 GAUGE WELDED WIRE FABRIC.
18. INSTALL 8" CLASS 2 BASE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D1557.

6 INCH FIRE SPRINKLER PIPELINE BACKFLOW PREVENTOR WITH FDC-DETAIL

K | 6 | 11

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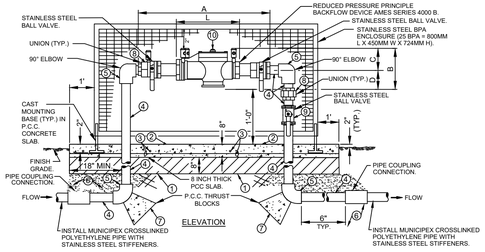

TABLE OF DIMENSIONS FOR BACKFLOW ASSEMBLY

SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT	
		A		B		C		D		L			
in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.
1/2	15	10	250	4-3/8	117	3-3/8	86	1-1/4	32	5-1/2	140	4.50	2.0
3/4	20	10-3/4	273	5	127	3-1/2	89	1-1/2	38	6-3/4	171	5.75	2.6
1	25	16-3/4	425	5-1/2	140	3	76	2-1/2	64	9-1/2	241	12.25	5.6
1-1/4	32	17-3/8	441	6	150	3-1/2	89	2-1/2	64	11-3/8	289	14.62	6.6
1-1/2	40	17-7/8	454	6	150	3-1/2	89	2-1/2	64	11-1/8	283	16.32	7.4
2	50	21-3/8	543	7-3/4	197	4-1/2	114	3-1/4	83	13-1/2	343	30.00	13.6

NOTES:

1. INSTALL 8 INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
2. INSTALL A 4 FOOT WIDE, 8 INCH DEEP P.C.C. CONCRETE SLAB. THE LENGTH OF THE CONCRETE SLAB SHALL BE DETERMINED BY THE DIAMETER SIZE OF THE PIPELINE AND LENGTH OF THE BACKFLOW PREVENTER ASSEMBLY. THE SURFACE OF THE CONCRETE SLAB SHALL RECEIVE A DOUBLE TROWEL FINISH. THE CONCRETE SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING. THE CEMENT SHALL BE TYPE V.
3. INSTALL NUMBER 4 REINFORCING BARS 12 INCHES ON CENTER EACH WAY.
4. INSTALL TYPE K COPPER PIPELINE PER THE DIAMETER REQUIRED BY THE PLANS.
5. INSTALL COPPER 90 DEGREE ELBOWS.
6. BACKFILL THE BELOW GRADE COPPER PIPELINES AND 90 DEGREE ELBOW WITH A 1 FOOT ENVELOPE OF GRANULAR SAND BACKFILL. COMPACT THE GRANULAR SAND BACKFILL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL P.C.C. THRUST BLOCKS.
8. INSTALL A BRASS UNION FITTING. THE DIAMETER SIZE SHALL BE AS INDICATED ON THE PLANS.
9. INSTALL A BRASS BALL VALVE WITH OPERATOR HANDLE. THE DIAMETER SIZE SHALL BE AS INDICATED ON THE PLANS.
10. INSTALL A BRONZE BODY REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE ASSEMBLY WITH STAINLESS STEEL BALL VALVE HANDLES. CLEAN AND CHECK STRAINER AND UNION CONNECTIONS. THE BRONZE BODY REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE SHALL BE AN AMES FIRE & WATERWORKS SERIES 4000B.

2 INCH DOMESTIC WATER BACKFLOW PREVENTOR - DETAIL

L | 6 | 11

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CONSTRUCTION KEYNOTES

1. INSTALL 6-INCH SDR 26 PVC PIPE SECTION.
2. INSTALL 6-INCH SDR 26 PVC WYE FITTING.
3. INSTALL NEW CAST IRON FRAME AND COVER LETTERED "SEWER" FLUSH WITH THE P.C.C. SIDEWALK FINISH GRADE.
4. INSTALL 6-INCH SDR 26 PVC 45-DEGREE ELBOW FITTING.

SANITARY SEWER PIPELINE DOUBLE CLEANOUT DETAIL

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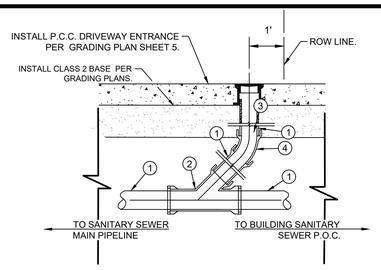

CONSTRUCTION KEYNOTES

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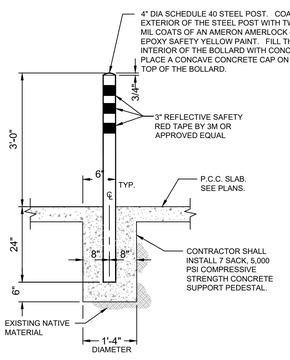
3. INSTALL NEW CAST IRON FRAME AND COVER LETTERED "SEWER" FLUSH WITH THE P.C.C. DRIVEWAY ENTRANCE FINISH GRADE
4. INSTALL 6-INCH SDR 26 PVC 45-DEGREE ELBOW FITTING.



4 INCH BOLLARD - DETAIL

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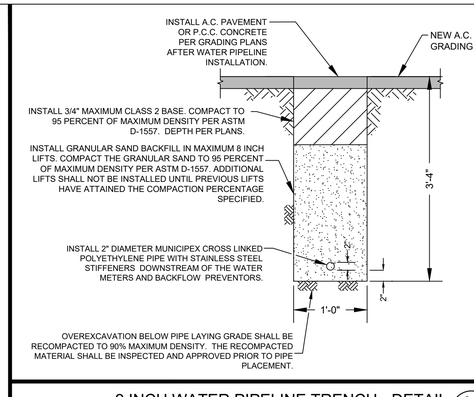

2 INCH WATER PIPELINE TRENCH - DETAIL

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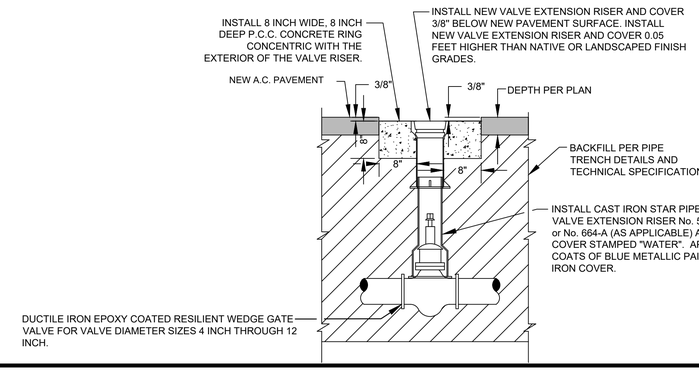

WATER VALVE DETAIL

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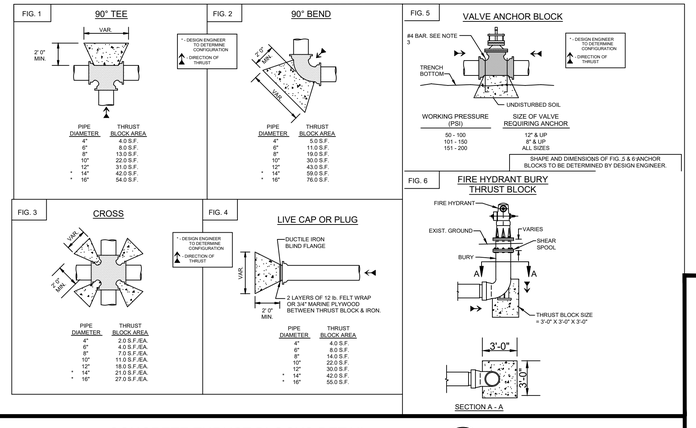

CONCRETE THRUST BLOCKS DETAIL

Q | 6,11 | 11

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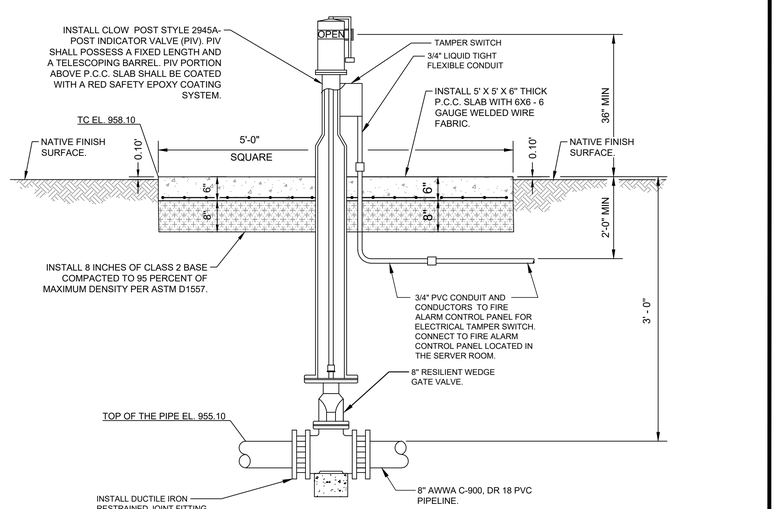
THRUST BLOCK NOTES:

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



POST INDICATOR VALVE DETAIL

S | 6 | 11

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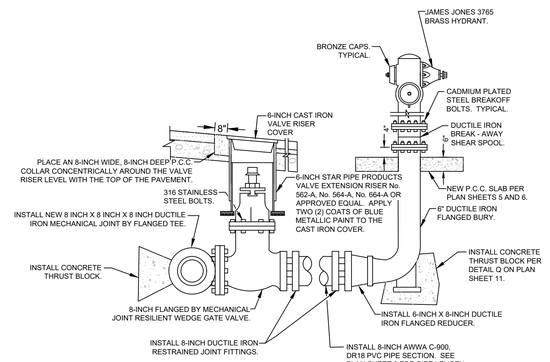
FIRE HYDRANT ASSEMBLY NOTES

1. HYDRANT LOCATION IS ILLUSTRATED ON PLAN SHEET 6.
2. APPLY TWO (2) 5 DRY FILM MIL COATS OF YELLOW COATING TO HYDRANT SURFACES. THE YELLOW COATING SHALL BE AN AMERON AMERSHIELD HIGH GLOSS ALIPHATIC POLYURETHANE COATING SYSTEM.
3. ALL BELOW GRADE HARDWARE SHALL CONSIST OF 316 STAINLESS STEEL. PLACE ANTI-SEIZE COMPOUND ON ALL STAINLESS STEEL HARDWARE.
4. BACKFILL FOR FIRE HYDRANT ASSEMBLY SHALL CONSIST OF SAND OR CLASS 2 BASE. GRANULAR SAND SHALL POSSESS A SAND EQUIVALENT OF 30 OR GREATER. COMPACT THE SAND OR CLASS 2 BASE BACKFILL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.



FIRE HYDRANT DETAIL

T | 6 | 11

NTS

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CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

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31773 R.C.E. NO. — 12/31/2022 REG. EXP.

PROJECT TITLE:

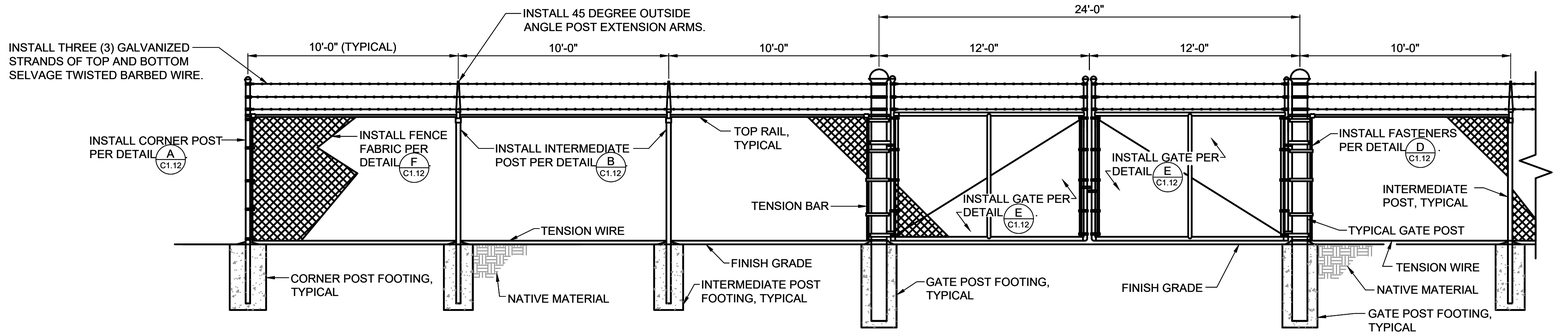
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

WATER AND SANITARY SEWER DETAIL SHEET

C1.11 SHEET 11 OF 23 SHEETS

JOB NO. 542.088



MATERIALS SCHEDULE FOR FENCING

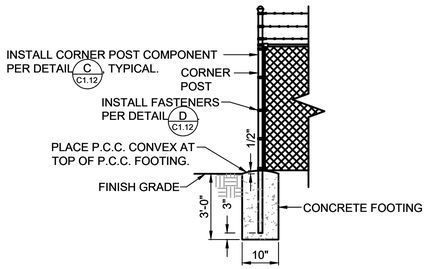
DESCRIPTION	SIZE
I. FABRIC	2" MESH, #9 GAUGE
II. RAILS, POSTS AND GATES	
A. CORNER AND PULL POSTS	2 7/8" O.D. @ 2.72 LB/FT
B. INTERMEDIATE POSTS	2 3/8" O.D. @ 2.23 LB/FT
C. RAILS	1 5/8" @ 1.65 LB/FT
D. GATE POSTS	4" O.D. @ 7.85 LB/FT
E. GATE FRAMES	1 7/8" TUBULAR MATERIAL
III. TENSION BARS	1/4" X 3/4"
IV. TENSION WIRE	#9 GAUGE
V. FOOTINGS	
A. CORNER AND PULL POSTS	10" O.D. x 36" DEEP
B. INTERMEDIATE POSTS	8" O.D. x 30" DEEP
C. GATE POSTS	12" O.D. x 42" DEEP
D. CONCRETE - FOOTINGS SHALL CONSIST OF (7) SACKS OF CEMENT PER CUBIC YARD OF CONCRETE AND SHALL ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS OF CURING.	

FENCING NOTES

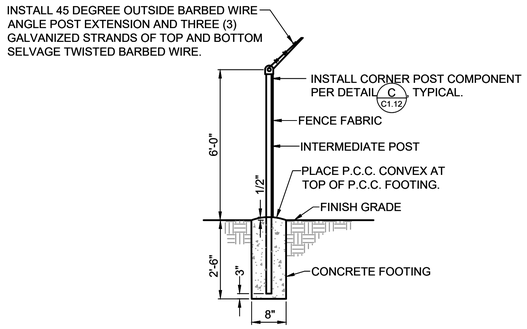
GRADING OF THE GROUND ALONG THE FENCE TO ASSURE A UNIFORM GRADE ALONG THE LENGTH OF THE FENCE SHALL BE ACCOMPLISHED BY THE CONTRACTOR PRIOR TO POST PLACEMENT. THE CHAIN LINK FENCE FABRIC SHALL BE NO. 9 GAUGE STEEL WIRE, 2 INCH MESH, SIX (6) FEET HIGH AND SHALL BE GALVANIZED AFTER WEAVING. IT SHALL BE FASTENED TO THE LINE POSTS BY MEANS OF SUITABLE GALVANIZED CLIPS AT INTERVALS OF NOT MORE THAN TWO (2) FEET AND FASTENED TO THE END, CORNER AND GATE POSTS BY MEANS OF ADJUSTABLE CLAMPS AT INTERVALS NOT TO EXCEED 15 INCHES AND AT TENSION BARS. FABRIC SHALL CONFORM TO ASTM STANDARD A-392, EXCEPT THAT IT SHALL WITHSTAND SIX (6) DIPS OF ONE (1) MINUTE EACH BY THE PREECE TEST (ASTM A-239). PIPE SHALL CONFORM TO ASTM STANDARD A-120. THE CHAIN LINK FABRIC SHALL BE ATTACHED TO THE TENSION WIRE AT INTERVALS OF NOT MORE THAN (2) FEET. TENSION WIRE SHALL CONFORM TO ASTM STANDARD A-112. THE CHAIN LINK GATES TO BE FURNISHED AND INSTALLED SHALL BE JOINED AT THE CORNERS BY ARC WELDING TO FORM A SOLID PANEL, AND SHALL BE SUITABLY BRACED TO PREVENT SAGGING. THE FABRIC SHALL BE THE SAME AS SPECIFIED FOR THE FENCE AND IT SHALL BE FASTENED TO THE FRAME BY MEANS OF ADJUSTABLE CLAMPS AND TENSION RODS. THE GATES SHALL BE EQUIPPED WITH SUITABLE HINGES AND COMBINATION CATCHES AND LOCKING OF APPROVED DESIGN. EXCEPT WHERE OTHERWISE SPECIFIED, ALL PARTS OF THE FENCE, GATES AND PIPE CLAMPS ARE TO BE GALVANIZED THROUGHOUT WITH HOT DIP GALVANIZING IN CONFORMANCE WITH " STANDARD SPECIFICATIONS OF ZINC (HOT GALVANIZED) COATINGS ON STRUCTURAL STEEL SHAPES, PLATES, BARS AND THEIR PRODUCTS" (ASTM A-123), AND WITHSTANDING SIX (6) ONE MINUTE IMMERSIONS BY THE PREECE TEST (ASTM A-239-44). GATES MAY BE GALVANIZED AFTER FABRICATION OR FABRICATED FROM GALVANIZED PARTS, IN WHICH CASE THE WELDS SHALL BE PROTECTED BY AN APPROVED METHOD THAT WILL MEET THE REQUIREMENTS OF THE PREECE TEST REFERENCED ABOVE. POST SHALL BE SET PLUMB AND SHALL BE CENTERED IN THE CONCRETE ENCASEMENT. THE TOP SURFACES OF THE CONCRETE ENCASEMENT SHALL BE SLOPED OUTWARD TO SHED WATER AND SHALL HAVE A NEAT APPEARANCE. ANY GALVANIZED COATING DAMAGED DURING CONSTRUCTION OF THE FENCING SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE. AFTER THE FENCE IS INSTALLED, THE CONTRACTOR SHALL COLLECT ALL DEBRIS RESULTING FROM THE FENCE INSTALLATION AND REMOVE IT FROM THE PROJECT SITE. THE GROUND ON EACH SIDE OF THE FENCE SHALL BE LEVELED EVEN WITH THE EXISTING GRADE.

LOCK MECHANISM FOR GATE

A SUITABLE LOCK MECHANISM FOR THE GATE SHALL BE PROVIDED. THE LOCK MECHANISM SHALL BE PROVIDED WITH A GATE LOCK AND SIX KEYS FOR THE LOCK. LOCK MECHANISM SHALL BE APPROVED DURING SUBMITTAL PROCESS.



CORNER POST SECTION, TYPICAL A
NOT TO SCALE C1.12



INTERMEDIATE POST SECTION, TYPICAL B
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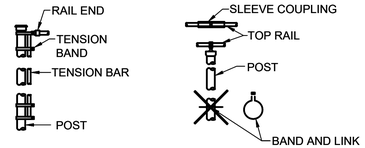
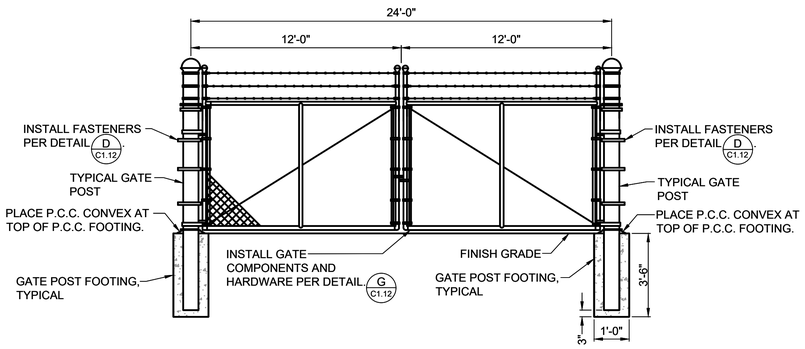


ENLARGED POST DETAILS C
SCALE: NOT TO SCALE C1.12

ENLARGED FASTENER DETAILS D
NOT TO SCALE C1.12



DOUBLE SWING GATE DETAIL E
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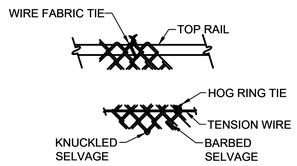

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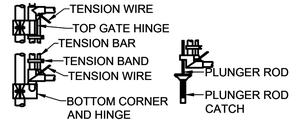

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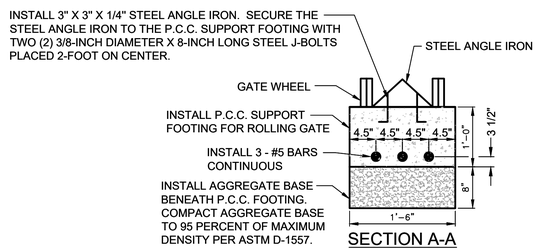
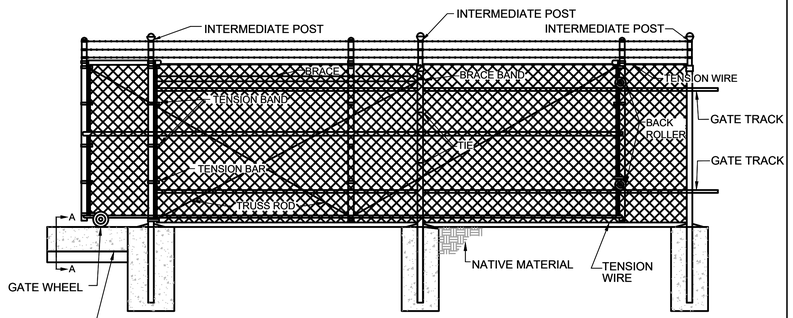


SECTION A-A



ROLL GATE DETAIL H
NOT TO SCALE C1.12

CHAIN LINK FENCE DETAIL U
NTS 6 12

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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
CHAIN LINK FENCE DETAIL SHEET

C1.12 SHEET
12 OF 23 SHEETS
JOB NO. 542.088

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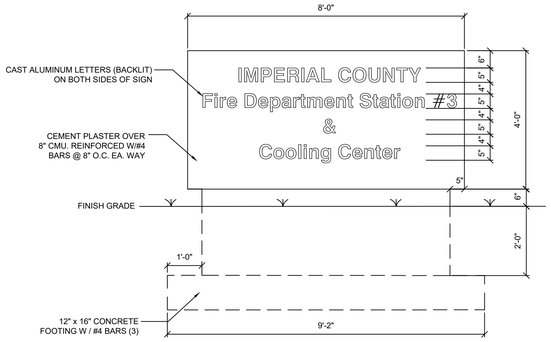
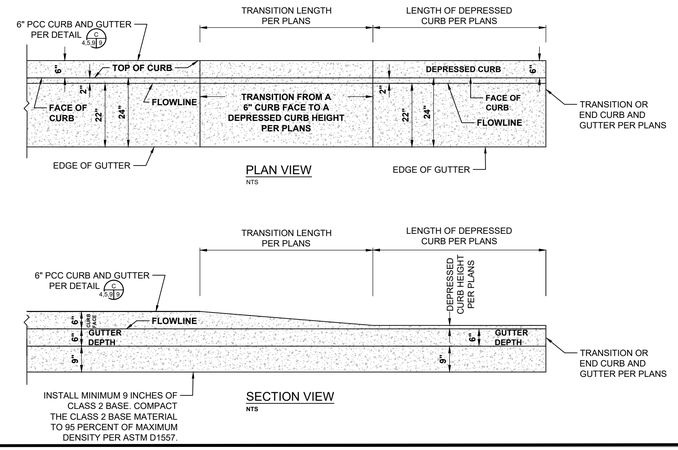


MONUMENT SIGN DETAIL

NTS

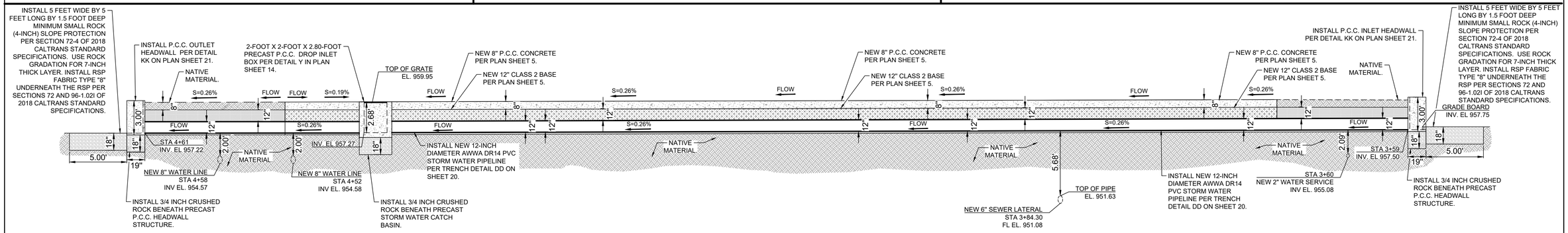
V
5|13



CURB AND GUTTER TRANSITION DETAIL

NTS

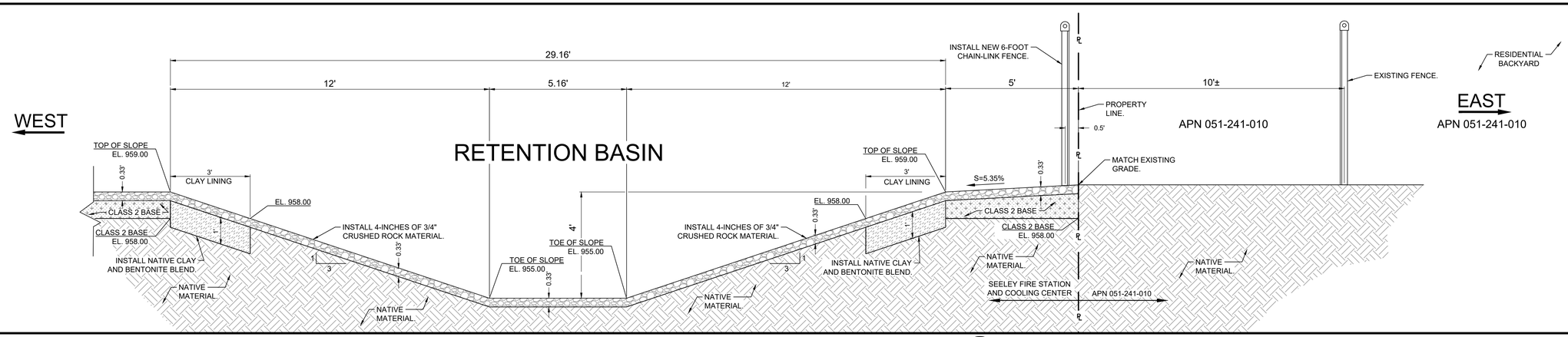
W
4,5|13



OFF-SITE STORM WATER PIPELINE CROSS-SECTION

SCALE 1"=4'

I-I
5|13



NORTHEAST RETENTION BASIN CROSS-SECTION

SCALE 1"=2'

J-J
4|13

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07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
MISCELLANEOUS DETAIL SHEET

C1.13 SHEET 13 OF 23 SHEETS
JOB NO. 542.088

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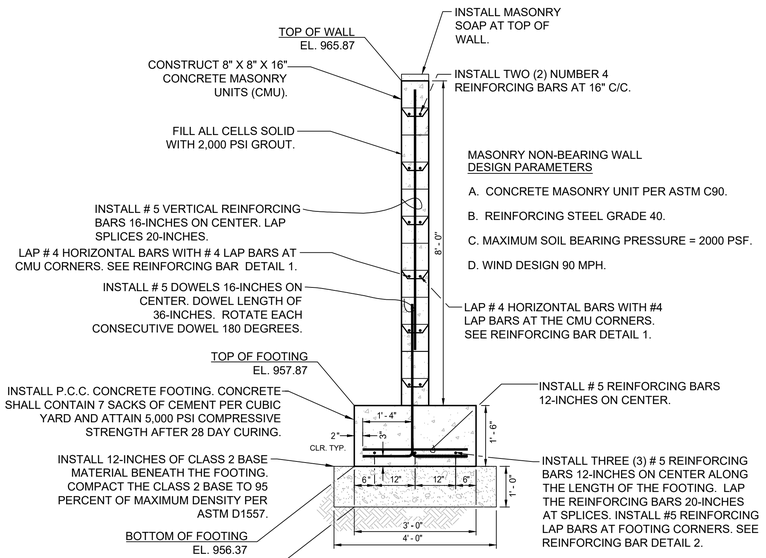
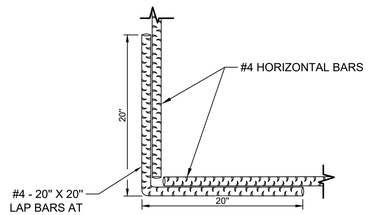
MASONRY WALL NOTES

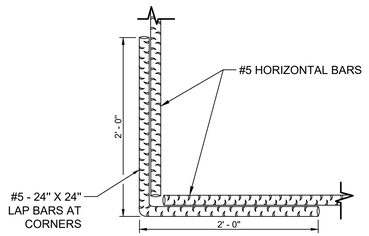
1. FOOTING TO BE CONSTRUCTED OF CONCRETE CONTAINING 7 SACKS OF CEMENT PER CUBIC YARD. THE CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS.
2. ~~FINISHED GRADE DIFFERENCE ON EACH SIDE OF WALL NOT TO EXCEED SIX INCHES.~~
3. GROUT ALL CELLS CONTAINING REBAR. INCLUDING BOND BEAMS WITH 2,000 PSI GROUT.
4. COAT THE ABOVE AND BELOW GRADE CMU WALL SURFACES INCLUDING THE MASONRY CAP WITH AN ANTI GRAFFITI PAINT. THE COATING APPLIED SHALL BE AN ALIPHATIC ACRYLIC POLYURETHANE COATING. THE ALIPHATIC ACRYLIC POLYURETHANE COATING SHALL BE A CARBOLINE CARBOTHANE. APPLY THREE (3) APPLICATIONS OF THE COATING SYSTEM AT 2 MIL DRY FILM THICKNESS PER COAT. APPLICATION SHALL BE ACCOMPLISHED WITH A WIDE NOZZLE AIRLESS SPRAY GUN. THE COLOR OF THE WALL SHALL BE DETERMINED BY THE COUNTY OF IMPERIAL WORK FORCE & ECONOMIC DEVELOPMENT AGENCY DIRECTOR.



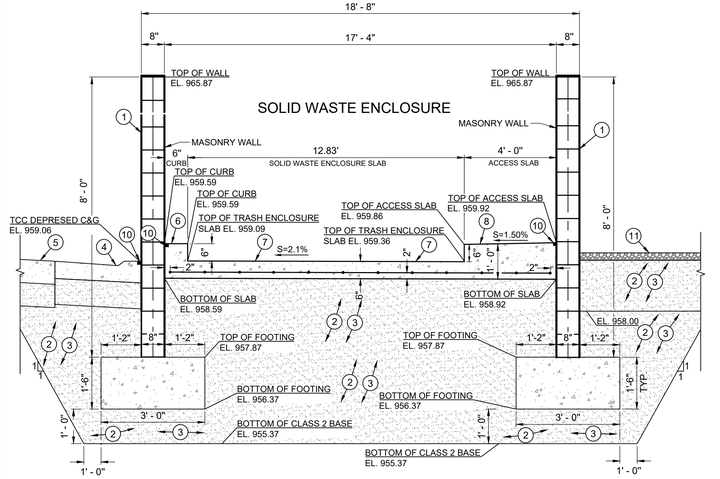
MASONRY WALL SECTION
NTS



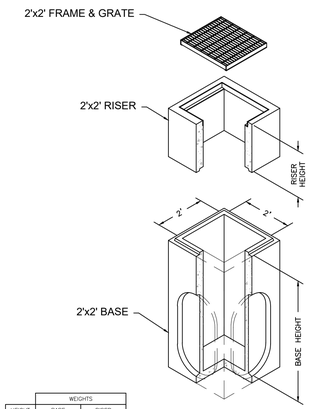
REINFORCING BAR DETAIL 1
NTS



REINFORCING BAR DETAIL 2
NTS

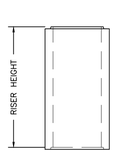


SOLID WASTE ENCLOSURE SECTION
NTS

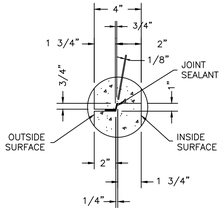


WEIGHTS		
HEIGHT	BASE	RISER
6"		233 #
1'		466 #
2'	1,205 #	933 #
3'	1,502 #	1,399 #
4'	1,799 #	1,866 #
5'	2,076 #	2,333 #

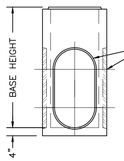
NOTES:
1. Vault design complies with ASTM C-857 and C-858 with less than 2' of earth cover and an AASHTO HS-20 loading.
2. Lifting insert type and location may change without notice.

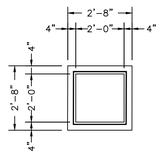


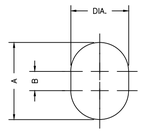
2'x2' CATCH BASIN RISER ELEVATION VIEW



JOINT DETAIL



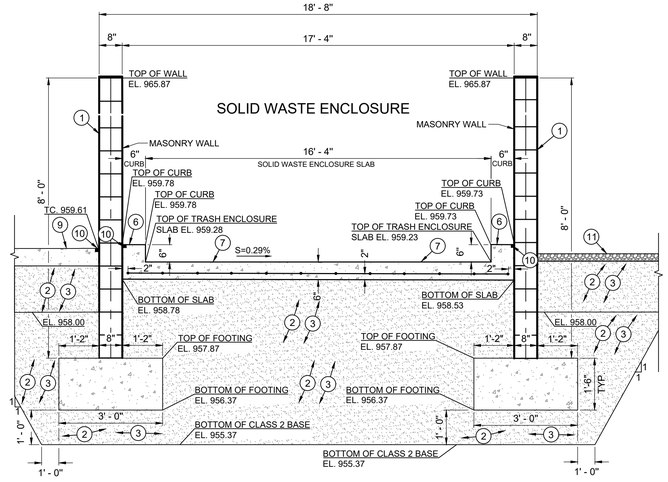




KNOCKOUTS ARE 2" DEEP

KNOCKOUT DIMENSIONS			
BASE HEIGHT	DIA.	A	B
2'	20"	20"	0"
3'	20"	27"	7"
4'	20"	30"	10"
5'	20"	39"	19"

STORM WATER CATCH BASIN DETAIL
NTS
Y
4,5,10|14



SOLID WASTE ENCLOSURE SECTION
NTS

E-E
10|14

SOLIDS WASTE ENCLOSURE – SECTION CONSTRUCTION KEYNOTES

1. CONSTRUCT CEMENT MASONRY UNIT (CMU) WALL PER DETAIL X ON PLAN SHEET 14.
2. EXCAVATE NATIVE EARTH 1 FOOT BELOW THE BOTTOM OF THE CMU WALL FOOTINGS TO AN ELEVATION OF 955.37. EXCAVATE THE NATIVE MATERIAL FROM THE EXTERIOR EDGES OF THE FOOTINGS AT A 1 TO 1 SLOPE. REMOVE AND DISPOSE OF THE NATIVE MATERIAL.
3. INSTALL CLASS 2 BASE BENEATH WALL FOOTINGS, THE SOLIDS WASTE ENCLOSURE, AND THE EXTERIOR EXCAVATION AREA OUTSIDE OF THE SOLIDS WASTE ENCLOSURE. COMPACT THE CLASS 2 BASE IN 9 INCH LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D1557. ADDITIONAL LIFTS SHALL NOT BE INSTALLED UNTIL PREVIOUS LIFTS HAVE BEEN SATISFACTORILY COMPACTED.
4. INSTALL DEPRESSED PCC CURB AND GUTTER PER DETAIL JJ ON PLAN SHEET 21.
5. INSTALL 8 INCHES OF PCC CONCRETE OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. PLACE NUMBER 4 REINFORCING BARS 12 INCHES ON CENTER EACH WAY 2 ½ INCHES ABOVE THE BOTTOM OF THE PCC SLAB.
6. INSTALL 6 INCH WIDE X 12 INCH DEEP PCC CURB MONOLITHIC WITH THE PCC ACCESS SLAB AND SOLIDS WASTE ENCLOSURE PCC SLAB WITHIN THE SOLID WASTE ENCLOSURE MASONRY WALLS. PLACE THE PCC CURB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
7. INSTALL 6 INCH DEEP SOLID WASTE ENCLOSURE PCC SLAB MONOLITHIC WITH THE PCC ACCESS SLAB AND PCC CURB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL NUMBER 4 REINFORCING BARS 12 INCHES ON CENTER EACH WAY 2 INCHES ABOVE THE BOTTOM OF THE PCC SLAB. INSTALL THE PCC SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
8. INSTALL 12 INCH DEEP PCC ACCESS SLAB. INSTALL THE ACCESS SLAB MONOLITHIC WITH THE PCC CURB AND SOLID WASTE ENCLOSURE SLAB WITHIN THE INTERIOR SOLID WASTE ENCLOSURE MASONRY WALLS. INSTALL THE PCC ACCESS SLAB OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
9. INSTALL 5 INCH DEEP PCC SIDEWALK OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
10. INSTALL ¼ INCH WIDE X 3/8 INCH DEEP POLYURETHANE JOINT SEALANT ALONG THE PCC CURB, SLABS AND SIDEWALK CONNECTION POINTS TO THE MASONRY WALLS. ALSO INSTALL THE POLYURETHANE JOINT SEALANT BETWEEN THE PCC SOLIDS WASTE ENCLOSURE SLAB AND THE PCC DEPRESSED CURB AND GUTTER. THE JOINT SEALANT SHALL BE A ONE-COMPONENT, SELF LEVELING, POLYURETHANE-BASED MATERIAL. IT SHALL BE APPLIED ALONG HORIZONTAL JOINTS. THE SEALANT SHALL PRINCIPALLY CURE UNDER THE INFLUENCE OF ATMOSPHERIC MOISTURE TO FORM AN ELASTOMERIC SUBSTANCE. THE SEALANT SHALL CONFORM TO FEDERAL SPECIFICATION TT-S-00230C, TYPE 1, CLASS A. THE SEALANT SHALL CONFORM TO ASTM C-920, TYPE S, GRADE P, CLASS 25. INSTALL BOND BREAKER TAPE IN THE BOTTOM OF ALL JOINTS TO PREVENT THREE-SIDED BONDING DURING THERMAL MOVEMENT. INSTALL THE SEALANT PER MANUFACTURERS SPECIFICATION SHEETS.
11. INSTALL 4-INCHES OF ¾ INCH GRAY CRUSHED ROCK ON FILTER/WEED FABRIC OVER CLASS 2 BASE SUBGRADE MATERIAL. COMPACT THE CLASS 2 BASE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM

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JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
SOLID WASTE ENCLOSURE SECTIONS AND DETAILS

C1.14 SHEET
14 OF 23 SHEETS
JOB NO. 542.088

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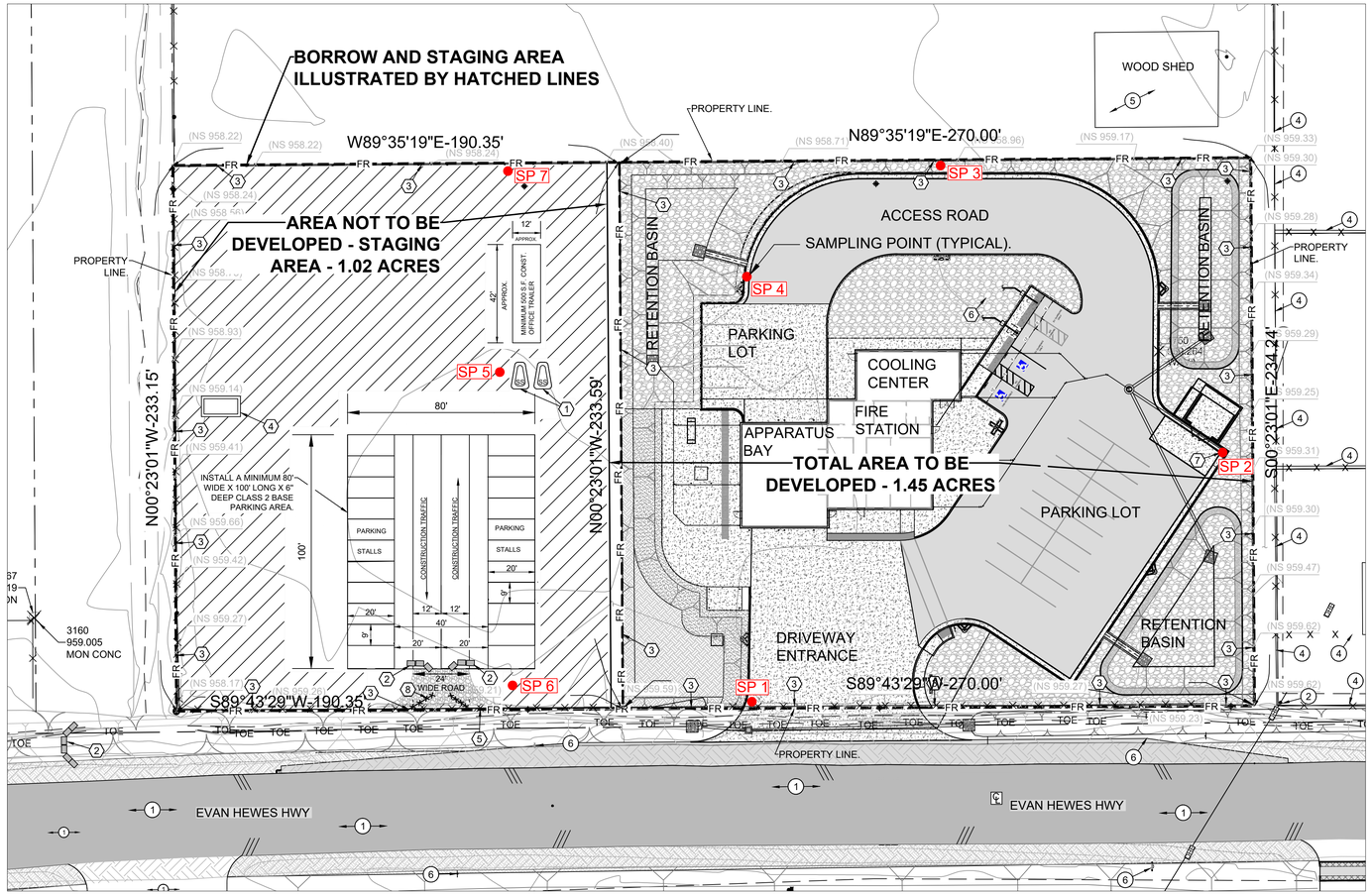

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. ~~EXISTING COMMUNICATION ENCLOSURE TO REMAIN.~~
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.
7. ~~EXISTING GAS MARKER TO REMAIN.~~

GENERAL EROSION CONTROL NOTES:

1. EROSION CONTROL PLAN INCLUDES ALL POSSIBLE BMPS FOR THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL APPLY APPROPRIATE BMPS FOR EACH PHASE OF CONSTRUCTION.
2. STREET SWEEPING (DURING MASS GRADING ACTIVITIES, STREETS WILL BE SWEPT AS NECESSARY TO PREVENT DIRT AND DUST FROM LEAVING THE CONSTRUCTION AREA). COORDINATE STREET SWEEPING ACTIVITIES REQUIRED BY THE CONTRACTOR WITH THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT. PROVIDE ALL TRAFFIC CONTROL DURING STREET SWEEPING REQUIRED BY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT.
3. CONTRACTOR SHALL PROVIDE ADEQUATE DUST SUPPRESSION TO MEET ALL COUNTY OF IMPERIAL AIR POLLUTION CONTROL DISTRICT REQUIREMENTS INCLUDING ALL DETOUR SIDE ROADS.
4. ALL BEST MANAGEMENT PRACTICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF CASQA STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK.
5. SITE DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
6. NO SITE CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
7. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCE THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
9. DRAIN INLET PROTECTION SHALL BE PROVIDED THROUGHOUT THE DURATION OF THE PROJECT. EXISTING DRAIN INLETS SHALL BE PROTECTED UNTIL FINAL REMOVAL AND THE CONNECTING PIPE SHALL BE PROPERLY CAPPED TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION ON ANY EXPOSED AREAS WHEN THE PROJECT IS COMPLETE.
11. CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE ALLOWED TO BE LOCATED WITHIN THE STAGING AREA.

LEGEND

1. PORTABLE TOILET
2. GRAVEL BAGS
3. CONCRETE WASHOUT AREA
4. FIBER ROLLS
5. CONSTRUCTION ENTRANCE

BMP KEYNOTES

1. CONTRACTOR SHALL LOCATE THE PORTABLE RESTROOM FACILITIES TO A LOCATION APPROVED BY THE ENGINEER.
2. INSTALL TWO (2) LAYER GRAVEL-FILLED BAGS AT AND ALONG THE DOWNSTREAM LOCATIONS OF THE EXISTING/NEW CONCRETE STORMWATER CONVEYANCE FACILITIES AND ALONG THE DOWNSTREAM DRIVEWAY ENTRANCE FROM EVAN HEWES HIGHWAY. SEE DETAIL E2 ON SHEET 16.
3. INSTALL TEMPORARY FIBER ROLLS PER DETAIL E5 ON SHEET 16.
4. INSTALL CONCRETE WASHOUT AREA PER CALIFORNIA BMP HANDBOOK WM-8 DETAILS. SEE DETAIL E3 ON SHEET 16.
5. INSTALL CONSTRUCTION ENTRANCE PER DETAIL E4 ON SHEET 16.
6. ~~INSTALL GRAVEL BAGS AROUND THE PERIMETER OF THE INLET PER DETAIL E2 ON SHEET 16.~~
7. ~~INSTALL GRAVEL BAGS AT THE INLET LOCATION AS ILLUSTRATED ON DETAIL E4 ON SHEET 16.~~
8. INSTALL 24 FOOT WIDE CHAIN LINK FENCE ACCESS GATE. COORDINATE THE EXACT LOCATION OF THE ACCESS GATE SUCH THAT THE CENTERLINE OF THE ACCESS ROAD SHALL BE COINCIDENT WITH THE CENTERLINE CHAIN LINK FENCE ACCESS GATE. SEE PLAN SHEET 6, THE FENCING AND UTILITY PLAN. INSTALL THE 24 FOOT WIDE CHAIN LINK FENCE ACCESS GATE PER DETAIL E ON PLAN SHEET 12.

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, WM-8 AND WM-9. REFER TO LATEST VERSION OF CASQA STORMWATER BMP HANDBOOK.
-	STREET SWEEPING	STREET SWEEPING SHALL BE PERFORMED AS NECESSARY TO ENSURE TRAVELED WAYS ARE FREE OF DIRT.CONTACT IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT TO COORDINATE STREET SWEEPING REQUIRED BY THE CONTRACTOR.
-	TEMPORARY RESTROOM FACILITIES	THE RESTROOM FACILITIES SHALL BE SECURED FROM OVERTURNING IN HIGH WIND CONDITIONS. A MENS AND WOMANS RESTROOM (TWO RESTROOMS) SHALL BE LOCATED AT THE CONSTRUCTION SITE.
WE-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.

NOTE:
THE CONTRACTOR SHALL REFER TO TECHNICAL SPECIFICATION SECTION 01 51 00, TEMPORARY FACILITIES AND TECHNICAL SPECIFICATION SECTION 01 55 00, SITE ACCESS AND STORAGE REGARDING MOBILIZATION AND STAGING AREA REQUIREMENTS. THE CONTRACTOR SHALL BE ALLOWED TO INSTALL THE PERMANENT 6 FOOT CHAIN LINK FENCE AROUND THE "AREA NOT TO BE DEVELOPED" STAGING AND BORROW AREA AT THE COMMENCEMENT OF THE PROJECT AS SECURITY FENCING; HOWEVER, ANY DAMAGE SUSTAINED TO THE FENCING DURING THE CONSTRUCTION OF THE PROJECT, WHETHER SUSTAINED BY THE CONTRACTOR OR ANOTHER PARTY, SHALL BE REPAIRED TO A NEW CONDITION AT THE CONTRACTORS EXPENSE.

30 0 30 60 90
SCALE 1"= 30'

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NO.	REVISIONS:	APPROVED	DATE

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DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:
NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
EROSION CONTROL PLAN AND CONTRACTOR STAGING AREA

C1.15 SHEET 15 OF 23 SHEETS
JOB NO. 542.088

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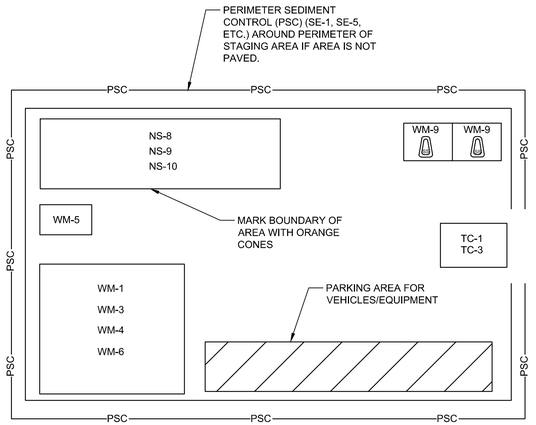


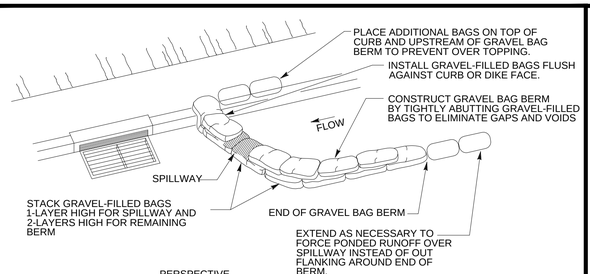
LEGEND

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

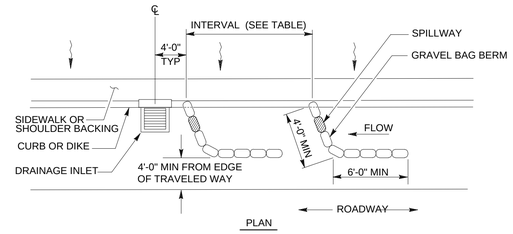
TYPICAL STAGING AREA LAYOUT

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

TYPICAL STAGING AREA - DETAIL E1
NOT TO SCALE



PERSPECTIVE



PLAN

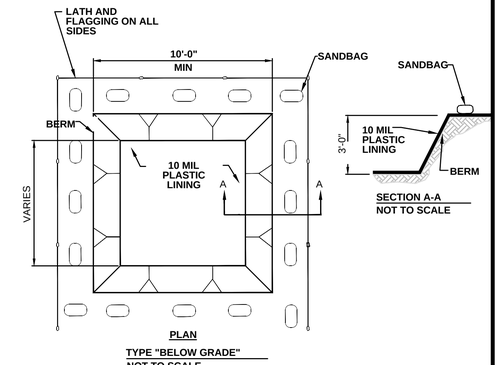
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent

GRAVEL BAG DETAIL - DETAIL E2
NOT TO SCALE

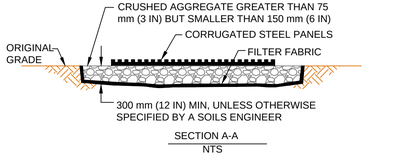


PLAN

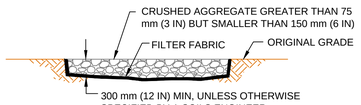
TYPE "BELOW GRADE"
NOT TO SCALE

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

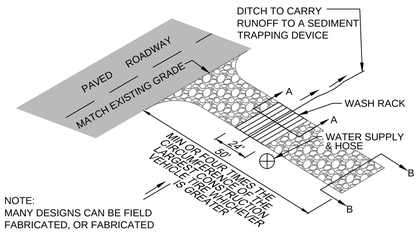
CONCRETE WASHOUT AREA - DETAIL E3
NOT TO SCALE



SECTION A-A
NTS

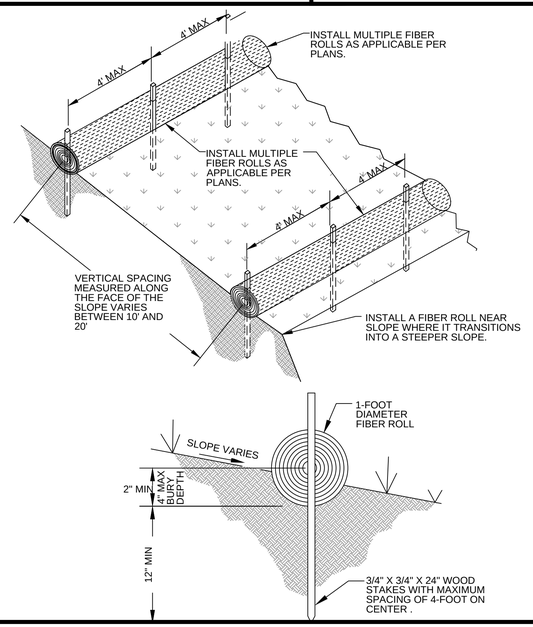


SECTION B-B
NTS



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

CONSTRUCTION ENTRANCE - DETAIL E4
NOT TO SCALE



TYPICAL FIBER ROLL INSTALLATION - DETAIL E5
NOT TO SCALE

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07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
EROSION CONTROL DETAILS

C1.16 SHEET
16 OF 23 SHEETS
JOB NO. 542.088

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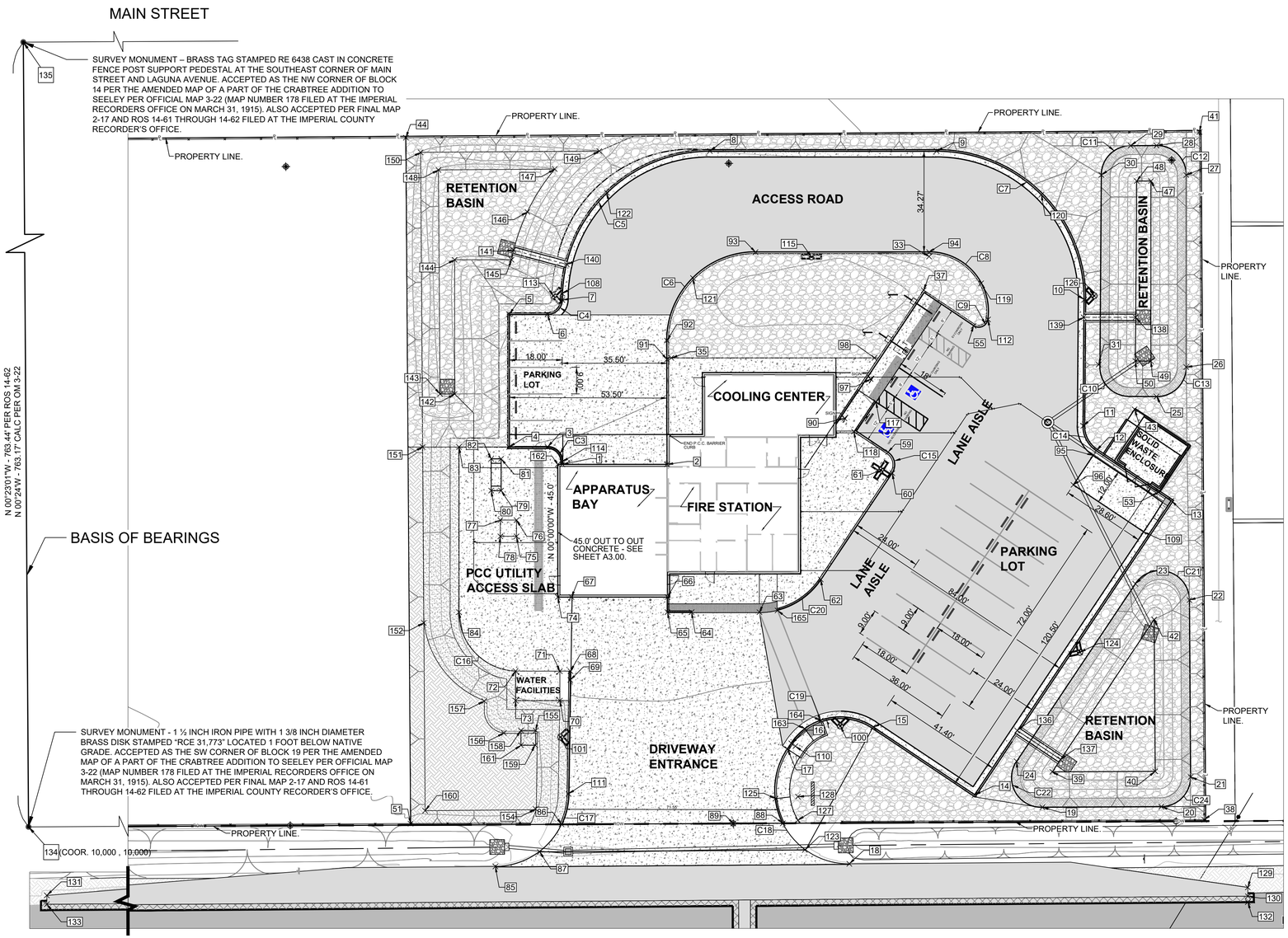


Point Table			
Point #	Northing	Easting	Description
1	10123.25	10242.31	TCC
2	10123.25	10277.81	TC
3	10129.13	10237.31	TCC-BC
4	10129.13	10224.31	TCC
5	10174.13	10224.31	TCC
6	10174.13	10237.30	TCC-EC
7	10178.99	10242.34	TC-EC
8	10229.48	10292.33	TCC-BC
9	10229.48	10369.21	TCC-EC
10	10179.10	10419.21	TCC-BC
11	10136.31	10418.89	TCC-EC
12	10127.92	10423.33	TCC-BC
13	10110.91	10448.77	TCC
14	10011.15	10382.10	TCC
15	10034.15	10347.68	TCC-EC
16	10028.65	10319.95	TCC-BC
17	10026.70	10318.64	TCC-EC
18	9987.78	10339.60	TCC-BC

Point Table			
Point #	Northing	Easting	Description
19	10006.96	10405.04	TOP-EC
20	10007.16	10445.33	TOP-BC
21	10017.23	10455.28	TOP-EC
22	10077.25	10454.88	TOP-BC
23	10082.74	10436.56	TOP-EC
24	10022.52	10396.32	TOP-BC
25	10146.22	10443.73	TOP-BC
26	10156.22	10453.81	TOP-EC
27	10221.37	10453.81	TOP-BC
28	10231.37	10443.73	TOP-EC
29	10231.30	10434.95	TOP-BC
30	10221.38	10425.03	TOP-EC
31	10157.05	10424.09	TOP-BC
33	10193.71	10366.65	TOP-EC
35	10159.35	10279.28	TOP
37	10182.32	10364.79	BOT
38	10002.73	10459.88	FENCE-C
39	10018.98	10408.40	BOT

Point Table			
Point #	Northing	Easting	Description
40	10019.15	10443.27	BOT
41	10235.97	10458.31	FENCE-C
42	10070.66	10442.92	BOT
43	10141.91	10436.30	SW
44	10234.01	10189.31	FENCE-C
47	10219.31	10441.84	BOT
48	10219.32	10437.01	BOT
49	10158.24	10441.81	BOT
50	10158.28	10436.57	BOT
51	10001.43	10190.88	FENCE-C
53	10113.84	10444.40	CURB TRANS.
55	10170.20	10381.73	TCC-EC
59	10127.42	10352.76	TCC-BC
60	10120.25	10354.18	TCC-EC
61	10121.27	10350.31	LIGHT
62	10084.23	10329.91	TCC-BC
63	10073.13	10309.13	TCC- END AC
64	10073.13	10286.12	TCC- VARIABLE

Point Table			
Point #	Northing	Easting	Description
65	10073.13	10277.98	TCC-VARIABLE
66	10078.25	10277.98	TCC-VARIABLE
67	10078.25	10245.44	TCC-DEP. CURB
68	10053.13	10245.07	TCC-DEP. CURB
69	10050.13	10245.02	TCC-VARIABLE
70	10043.13	10241.49	TC
71	10053.13	10241.49	TC
72	10053.14	10226.49	TC-EC
73	10043.13	10226.49	TC
74	10078.25	10240.80	BLDG-COR
75	10098.84	10226.80	XFRMR
76	10104.34	10226.80	XFRMR
77	10104.34	10221.30	XFRMR
78	10098.84	10221.30	XFRMR
79	10114.34	10221.58	GEN-SET
80	10114.34	10218.20	GEN-SET
81	10125.13	10221.58	GEN-SET
82	10125.13	10218.20	GEN-SET

Point Table			
Point #	Northing	Easting	Description
83	10129.13	10207.30	TC
84	10073.13	10207.30	TC-BC
85	9986.88	10219.64	TC-EC
86	10001.17	10242.04	TCC-END CURB
87	9991.83	10234.66	TC-FL
88	10001.54	10317.08	TCC-END CURB
89	10001.46	10300.24	TBM
90	10138.87	10337.97	SIGN
91	10158.79	10277.81	TCC
92	10165.21	10277.82	TCC-BC
93	10195.21	10307.82	TCC-EC
94	10195.21	10366.65	TCC-BC
95	10126.26	10422.22	TC
96	10116.29	10415.55	TC
97	10152.19	10346.79	SIGN
98	10159.36	10348.12	SW
100	10034.53	10336.55	LIGHT
101	10030.76	10241.75	LIGHT

Point Table			
Point #	Northing	Easting	Description
108	10181.12	10242.30	TCC-EC
109	10100.39	10439.33	TC
110	10027.69	10321.33	SIGN
111	10011.51	10244.45	TCC-BC
112	10172.39	10386.62	TCC-BC
113	10180.39	10239.30	LIGHT
114	10124.13	10242.31	TCC-EC
115	10193.60	10326.76	LIGHT
117	10144.39	10348.66	TCC-RAMP
118	10134.36	10341.16	TCC-RAMP
119	10184.65	10384.28	TCC-MC
120	10214.70	10404.70	TCC-MC
121	10186.42	10286.60	TCC-MC
122	10215.32	10257.47	TCC-MC
123	9992.50	10324.51	TCC-FL
124	10059.51	10417.72	LIGHT
125	10009.88	10314.58	TCC-MC
126	10180.39	10422.59	LIGHT

Point Table			
Point #	Northing	Easting	Description
127	10002.56	10322.19	SIGN
128	10010.56	10322.19	SIGN
129	9979.80	10474.66	TP
130	9976.80	10474.69	TP
131	9976.56	10044.71	TP
132	9974.80	10474.68	TP
133	9973.56	10044.73	TP
134	10000.00	10000.00	SURVEY MON.
135	10763.41	9994.89	SURVEY MON.
136	10032.99	10396.50	SPILLWAY CL
137	10023.17	10411.20	SPILLWAY CL
138	10173.12	10436.67	SPILLWAY CL
139	10173.12	10419.00	SPILLWAY CL
140	10191.02	10243.87	SPILLWAY CL
141	10195.88	10225.79	SPILLWAY CL
142	10147.10	10205.81	BASIN BOT
143	10147.09	10200.87	BASIN BOT
144	10192.63	10205.81	BASIN BOT

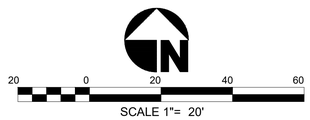
Point Table			
Point #	Northing	Easting	Description
145	10192.63	10225.11	BASIN BOT
146	10208.87	10230.46	BASIN BOT
147	10223.38	10239.75	BASIN BOT
148	10223.09	10200.33	BASIN BOT
149	10229.48	10254.85	BASIN TOP
150	10229.05	10194.29	BASIN TOP
151	10129.13	10194.97	SWALE FL
152	10069.49	10195.36	SWALE FL
153	3.17	8.25	TOE BERM
154	10006.39	10233.26	TOE BERM
155	10032.99	10233.30	SLAB COR
156	10032.13	10222.49	TOE BERM
157	10042.99	10215.82	TOE BERM
158	10033.00	10228.29	SLAB COR
159	10028.03	10233.10	SLAB COR
160	10005.79	10195.81	TOE BERM
161	10027.99	10228.30	SLAB COR
162	10123.25	10240.80	BLDG-COR

Point Table			
Point #	Northing	Easting	Description
163	10033.63	10324.44	RAMP
164	10036.38	10329.90	RAMP
165	10073.72	10315.27	END CURB

Curve Table			
Curve #	Length	Radius	Delta
C1	7.85	5.00	90.00
C2	7.85	5.00	90.00
C3	7.85	5.00	90.00
C4	7.72	5.00	88.42
C5	77.16	50.00	88.42
C6	47.12	30.00	89.99
C7	78.91	50.00	90.43
C8	34.23	20.32	96.52
C9	6.40	3.17	115.76
C10	15.71	10.00	90.00

Curve Table			
Curve #	Length	Radius	Delta
C11	15.56	10.00	89.16
C12	15.78	10.00	90.42
C13	15.78	10.00	90.43
C14	9.89	10.00	56.66
C15	8.12	5.17	90.00
C17	38.71	25.00	88.71
C18	54.22	25.00	124.26
C19	31.39	20.00	89.93
C20	24.54	25.00	56.24
C21	25.46	10.00	145.86

Curve Table			
Curve #	Length	Radius	Delta
C22	22.02	10.01	126.06
C24	15.73	10.00	90.11



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07/08/2022
DATE
31773
R.C.E. NO.
12/31/2022
REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
HORIZONTAL CONTROL PLAN

C1.17 SHEET 17 OF 23 SHEETS
JOB NO. 542.088

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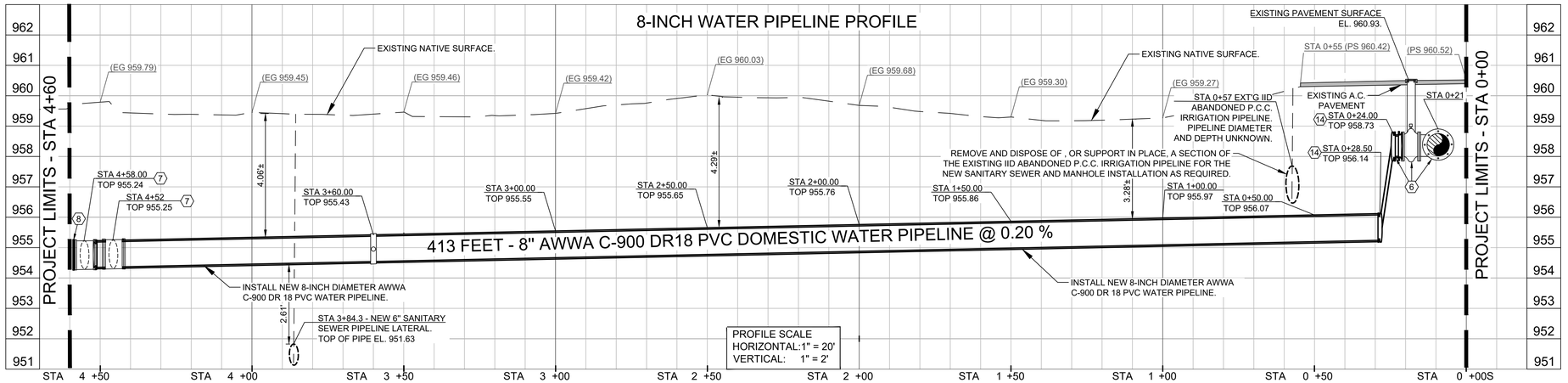
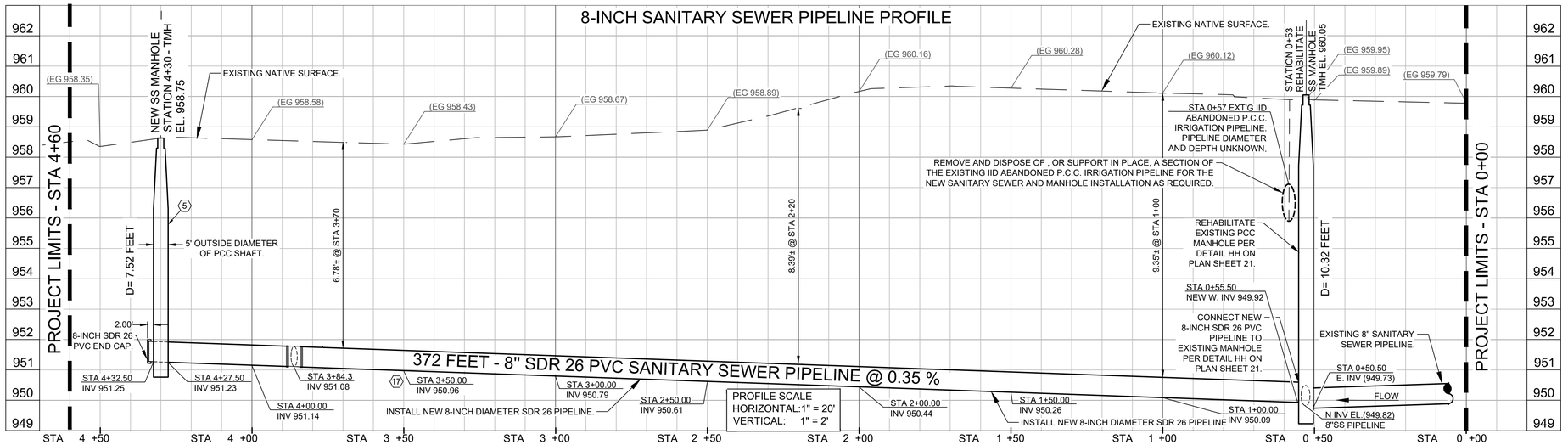
EXISTING KEYNOTES

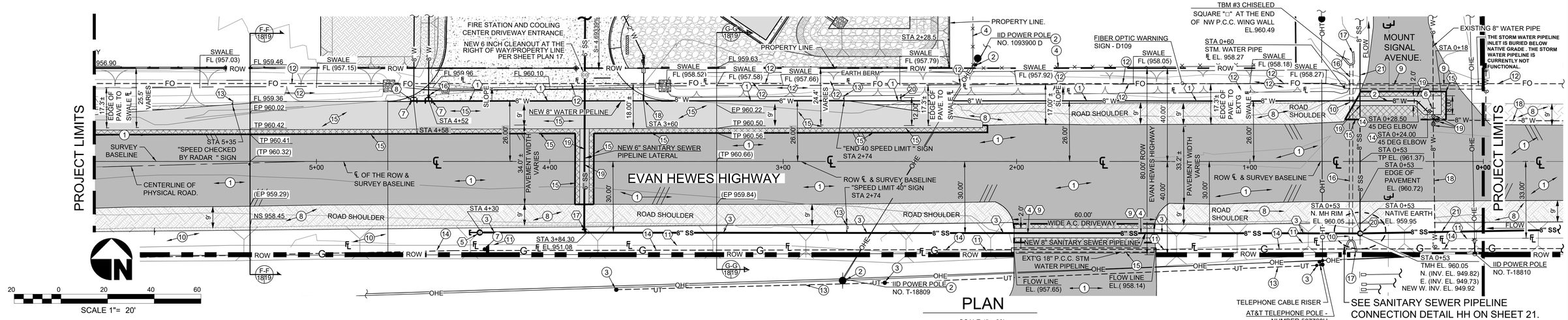
1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING 1-FOOT DIAMETER PVC TELEPHONE ENCLOSURE EXTENDING 2.5 FEET ABOVE THE EXISTING GRADE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING SIGN TO REMAIN.
7. EXISTING GAS MARKER TO REMAIN.
8. EXISTING ROAD SHOULDER TO REMAIN.
9. EXISTING 12 INCH DIAMETER PCC STORM WATER PIPELINE. THE PIPELINE IS FULL OF DIRT. THE DIRT SHALL BE REMOVED FROM THE PIPELINE BY OTHERS.
10. EXISTING NATIVE EARTH SWALE TO REMAIN.
11. EXISTING TELEPHONE POLE TO REMAIN.
12. EXISTING FIBER OPTIC LINE TO REMAIN.
13. EXISTING UNDERGROUND TELEPHONE LINE TO REMAIN.
14. EXISTING UNDERGROUND GAS PIPELINE TO REMAIN.
15. EXISTING 18 INCH DIAMETER PCC STORM WATER PIPELINE TO REMAIN.
16. EXISTING ABANDONED IID IRRIGATION PIPELINE TO REMAIN.
17. EXISTING ABANDONED IID PCC HEADWALLS TO REMAIN.
18. EXISTING 8 INCH WATER PIPELINE TO REMAIN.
19. EXISTING 8 INCH RESILIENT WEDGE GATE VALVES TO REMAIN.
20. EXISTING SANITARY SEWER MANHOLE TO REMAIN.
21. EXISTING 8-INCH SANITARY SEWER PIPELINE TO REMAIN.

CONSTRUCTION KEYNOTES

1. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE PER TRENCH DETAIL Z ON PLAN SHEET 20.
2. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE BENEATH THE EXISTING A.C. PAVEMENT SECTION PER TRENCH DETAIL AA ON PLAN SHEET 20.
3. INSTALL NEW 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE PER TRENCH DETAIL EE ON PLAN SHEET 20.
4. INSTALL NEW 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE BENEATH THE EXISTING A.C. PAVEMENT SECTION PER TRENCH DETAIL FF ON PLAN SHEET 20.
5. INSTALL NEW 4-FOOT PCC SANITARY SEWER MANHOLE PER DETAIL CC ON PLAN SHEET 20.
6. INSTALL NEW 8 INCH 316 STAINLESS STEEL HOT TAP, 8 INCH RESILIENT WEDGE GATE VALVE AND 8 INCH 45 DEGREE D.I. ELBOW WITH 8 INCH RESTRAINED JOINT FITTING PER DETAIL II ON PLAN SHEET 21.
7. INSTALL NEW 8 INCH X 8 INCH X 8 INCH DUCTILE IRON TEES. SEE UTILITY CONSTRUCTION KEYNOTES 4 AND 19 ON PLAN SHEET 6.
8. INSTALL 8 INCH DUCTILE IRON BLIND FLANGE.
9. A SHIELD, SHORING OR AN ALTERNATE METHOD SHALL BE USED FOR THE INSTALLATION OF THE NEW 8 INCH SANITARY SEWER PIPELINE IN THE AREA OF THE EXISTING 18 INCH PCC STORM WATER PIPELINE. THE EXISTING 18 INCH PCC STORM WATER PIPELINE SHALL BE SUPPORTED IN PLACE DURING THE INSTALLATION OF THE NEW 8 INCH SANITARY SEWER PIPELINE. IF THE STORMWATER PIPELINE IS DAMAGED OR IT'S HORIZONTAL OR VERTICAL POSITION IS ALTERED DURING THE NEW SANITARY SEWER PIPELINE INSTALLATION THEN THE CONTRACTOR SHALL REPAIR AND REPOSITION OR REPLACE THE STORM WATER PIPELINE TO THE SATISFACTION OF THE ICDPW AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF OR SUPPORT IN PLACE THE EXISTING IID ABANDONED IRRIGATION PIPELINE, AS REQUIRED, DURING THE INSTALLATION OF THE NEW WATER PIPELINE AND NEW SANITARY SEWER PIPELINE.
11. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER THE SWALE FLOW LINE DATA CHART ILLUSTRATED ON PLAN SHEET 19. THE EVAN HEWES ROAD SHOULDERS SHALL ALSO BE GRADED AND COMPACTED AFTER THE SANITARY SEWER PIPELINE INSTALLATION.
12. AFTER THE INSTALLATION OF THE DOMESTIC WATER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER GRADES ILLUSTRATED ON THIS PLAN SHEET. THE EVAN HEWES ROAD SHOULDERS SHALL ALSO BE GRADED AND COMPACTED AFTER THE DOMESTIC PIPELINE INSTALLATION.
13. SEE CONSTRUCTION KEYNOTES 4 ,5 AND 6 ON PLAN SHEET 19 REGARDING RELOCATION OF EXISTING SIGNS ALONG EVAN HEWES HIGHWAY.
14. INSTALL NEW 8 INCH 45 DEGREE DUCTILE IRON ELBOW. SEE DETAIL II ON PLAN SHEET 21.
15. SEE PLAN SHEET 5 FOR A.C. PAVEMENT INSTALLATION SECTION AND GRADING AT THE DRIVEWAY ENTRANCE AND A.C. TAPERS ALONG EVAN HEWES HIGHWAY.
16. INSTALL 8 INCH RESILIENT WEDGE GATE VALVE. SEE KEYNOTE 19 ON PLAN SHEET 6.
17. INSTALL A NEW 8 INCH X 8 INCH X 6 INCH SDR 26 PVC WYE FITTING ALONG THE NEW 8 INCH SDR 26 PVC SANITARY SEWER PIPELINE TO SERVICE THE FIRE STATION AND COOLING CENTER BUILDING.
18. INSTALL 2 INCH WATER SERVICE CONNECTION. SEE CONSTRUCTION KEYNOTE 1,2 AND 3 ON PLAN SHEET 6.
19. INSTALL 6" SDR 26 PVC SANITARY SEWER LATERAL AT A SLOPE OF 4.6933% FROM THE NEW 8" SDR 26 PVC SANITARY SEWER PIPELINE ALONG EVAN HEWES HIGHWAY TO THE POINT OF CONNECTION AT THE FIRE STATION AS ILLUSTRATED ON SHEET 6. INSTALL THE 6" SDR 26 PVC SANITARY SEWER LATERAL IN THE PAVED PORTION OF EVAN EVAN HEWES HIGHWAY PER TRENCH SECTION D-D ON PLAN SHEET 20 AND IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN ILLUSTRATED ON PLAN SHEET 22.
20. CONTRACTOR SHALL CONNECT THE NEW SANITARY SEWER PIPELINE TO THE EXISTING MANHOLE. THE CONTRACTOR SHALL REHABILITATE THE MANHOLE AS ILLUSTRATED ON DETAIL HH ON PLAN SHEET 21.







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NO.	REVISIONS:	APPROVED	DATE

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

EVAN HEWES HIGHWAY WATER AND SANITARY SEWER PLAN AND PROFILE SHEET

C2.01 SHEET 18 OF 23 SHEETS

JOB NO. 542.088

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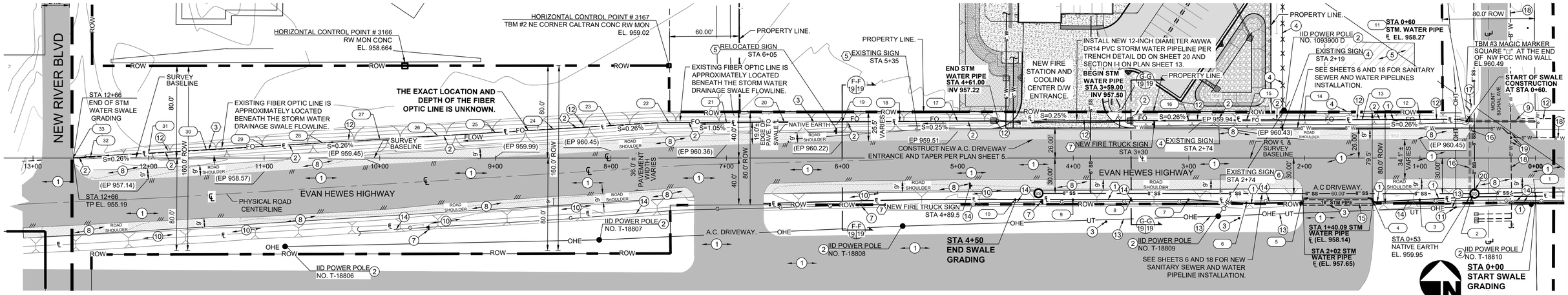
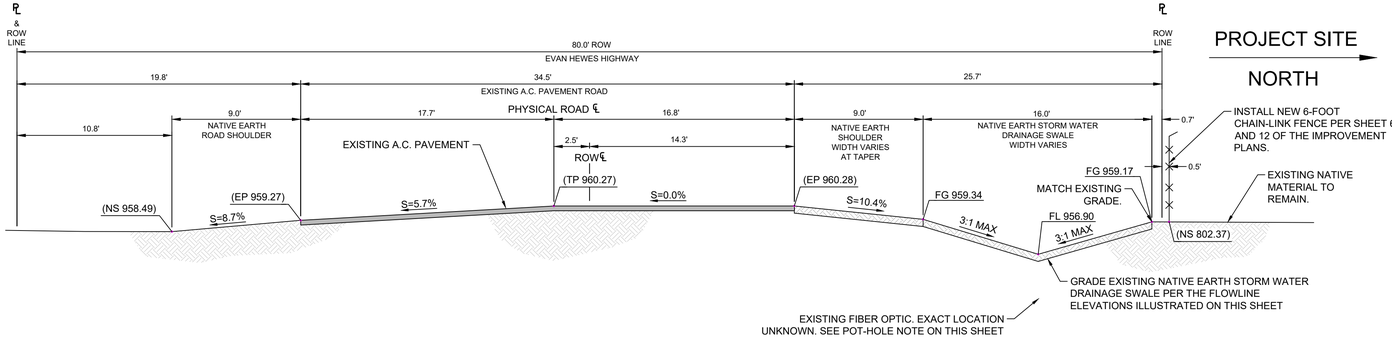


STORM DRAINAGE SWALE GRADING PLAN

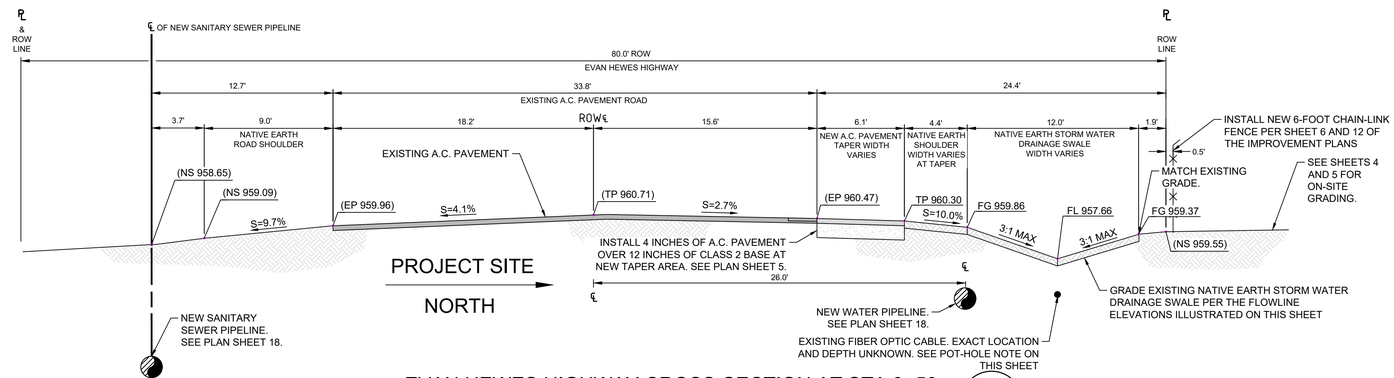
SCALE 1"= 40'

NOTE: AFTER THE NEW 8 INCH WATER PIPELINE IS CONSTRUCTED ON THE NORTH SIDE OF EVAN HEWES HIGHWAY AND THE NEW 8 INCH SANITARY SEWER PIPELINE IS CONSTRUCTED ON THE SOUTH SIDE OF EVAN HEWES HIGHWAY COMPLETE THE GRADING AND RE-ESTABLISHMENT OF THE STORM WATER SWALES AS ILLUSTRATED ON THIS PLAN SHEET.



EVAN HEWES HIGHWAY CROSS-SECTION AT STA 6+00 (F-F, 18-19 | 19)

SCALE: 1"=5'



EVAN HEWES HIGHWAY CROSS-SECTION AT STA 3+50 (G-G, 18-19 | 19)

SCALE: 1"=5'

EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING 1-FOOT DIAMETER PVC TELEPHONE ENCLOSURE EXTENDING 2.5 FEET ABOVE THE EXISTING GRADE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING SIGN TO REMAIN.
7. EXISTING GAS MARKER TO REMAIN.
8. EXISTING ROAD SHOULDER TO REMAIN.
9. EXISTING 12 INCH DIAMETER PCC STORM WATER PIPELINE. THE PIPELINE IS FULL OF DIRT. THE DIRT SHALL BE REMOVED FROM THE PIPELINE BY OTHERS.
10. EXISTING NATIVE EARTH SWALE TO REMAIN.
11. EXISTING TELEPHONE POLE TO REMAIN.
12. EXISTING FIBER OPTIC LINE TO REMAIN.
13. EXISTING UNDERGROUND TELEPHONE LINE TO REMAIN.
14. EXISTING UNDERGROUND GAS PIPELINE TO REMAIN.
15. EXISTING 18 INCH DIAMETER PCC STORM WATER PIPELINE TO REMAIN.
16. EXISTING ABANDONED IID IRRIGATION PIPELINE TO REMAIN.
17. EXISTING ABANDONED IID PCC HEADWALLS TO REMAIN.
18. EXISTING 8 INCH WATER PIPELINE TO REMAIN.
19. EXISTING 8 INCH RESILIENT WEDGE GATE VALVES TO REMAIN.
20. EXISTING SANITARY SEWER MANHOLE TO REMAIN.
21. EXISTING 8-INCH SANITARY SEWER PIPELINE TO REMAIN.
22. SPEED CHECKED BY RADAR SIGN

CONSTRUCTION KEYNOTES

1. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER THE SWALE FLOW LINE DATA CHART ILLUSTRATED ON THIS PLAN SHEET. THE EVAN HEWES ROAD SHOULDERS SHALL BE GRADED AT 2 PERCENT SLOPE FROM THE EXISTING PAVEMENT EDGE TO THE TOP OF THE SWALE SLOPE AFTER THE SANITARY SEWER PIPELINE INSTALLATION. COMPACT THE NATIVE EARTH SHOULDERS SMOOTH AND APPLY WATER TO THE SHOULDERS.
2. AFTER THE INSTALLATION OF THE DOMESTIC WATER PIPELINE THE EXISTING STORM WATER SWALE IS TO BE RE-ESTABLISHED PER THE FLOWLINE DATA CHART ILLUSTRATED ON THIS PLAN SHEET. THE SWALE SIDE SLOPES SHALL BE CONSTRUCTED AT A MAXIMUM 3 TO 1 SLOPE. THE EVAN HEWES ROAD NATIVE EARTH SHOULDERS SHALL ALSO BE GRADED AT A 2% SLOPE FROM THE EXISTING PAVEMENT EDGE TO THE TOP OF THE SWALE SLOPE AFTER THE DOMESTIC WATER PIPELINE INSTALLATION. COMPACT THE NATIVE EARTH SHOULDERS SMOOTH AND APPLY WATER TO THE ROAD SHOULDERS.
3. CONTRACTOR SHALL REMOVE NATIVE EARTH FROM THE INTERIOR OF THE EXISTING 18" P.C.C. STORM WATER PIPELINE.
4. RELOCATE EXISTING "END 40MPH SPEED LIMIT" SIGN FROM STATION 2+74 TO STATION 2+19 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
5. RELOCATE "SPEED CHECKED BY RADAR" SIGN FROM STATION 5+35 TO STATION 6+05 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
6. COORDINATE REMOVAL AND TEMPORARY RELOCATION OF EXISTING "SPEED LIMIT 40MPH" SIGN WITH THE ICDPW OFFICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE AND GRADING OF THE SWALE AND ROAD SHOULDER, INSTALL THE SIGN IN A PERMANENT LOCATION PER THE ICDPW REQUIREMENTS.
7. INSTALL NEW SOLAR OPERATED "R247-E" FLASHING BEACONS CONTROLLED WITH "R838" WIRELESS BEACON CONTROLLER AS MANUFACTURED BY CARMANAH (WWW.CARAMANAH.COM), OR AN APPROVED EQUAL, AND PER THE SPECIAL CONDITION SECTION FOR OTHER RELATED SIGN COMPONENT REQUIREMENTS INCLUDED IN THE SPECIFICATIONS/PROJECT MANUAL. THE SOLAR PANEL SHALL CONSIST OF AN "R247-F" LARGE 30W INTEGRATED SOLAR ENGINE AS SPECIFIED AND RECOMMENDED BY CARMANAH MANUFACTURE OR AN APPROVED EQUAL. MOUNT A W11-8 (FIRE ENGINE SIGN) ABOVE THE FLASHING BEACON AND A CUSTOM SIGN STATING "PREPARE TO STOP WHEN FLASHING" BENEATH THE FLASHING BEACON ON A 6" X 6" WOOD POST PER CALTRANS STANDARD PLAN RS2 WITH BACK BRACE AND BREAKWAY FEATURE AND PER SECTION 82 OF 2018 CALTRANS STANDARD SPECIFICATIONS. ALTERNATELY, THE CONTRACTOR MAY INSTALL THE FLASHING BEACONS AND SIGNS MOUNTED ON TWO (2) 2" X 2" PERFORATED GALVANIZED STEEL SQUARE POSTS PROVIDED WITH BACK BRACES AND 5-FOOT X 2.5" SLEEVES TO SERVE AS A BREAKAWAY SYSTEM. INSTALL EACH SQUARE POST AND SLEEVE ON A18-INCH DIAMETER BY 3-FOOT DEEP CONCRETE PEDESTAL. THE BOTTOM OF THE LOWEST SIGN SHALL BE 5 FEET ABOVE THE FINISH GRADE AS ILLUSTRATED IN THE COUNTY OF IMPERIAL STANDARD DRAWING NO. 452. ALL SIGNS SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD STANDARDS.

SOUTH EVAN HEWES HIGHWAY SWALE FLOW LINE DATA CHART

NUMBER	STATION	DISTANCE FROM THE SURVEY BASELINE ALONG EVAN HEWES TO SOUTH FLOW LINE	SWALE FLOW LINE ELEVATION
1	0+00	33'	959.71
2	0+52.6	34'	959.86
3	1+00	36'	959.00
4	1+40.9	37.5'	958.14
5	2+02	37.5'	957.65
6	2+50	37'	957.60
7	3+00	37'	957.55
8	3+50	37'	957.50
9	4+00	37'	957.45
10	4+50	37'	957.40

POTHOLE NOTES

1. ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ON THE PLANS ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER AND SANITARY SEWER PIPELINES SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
2. IT WILL BE REQUIRED TO "POT-HOLE" THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE "POT-HOLING" ACTIVITIES WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 8-INCH SEWER AND WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLES, FIBER OPTIC, WATER, GAS, ELECTRICAL, COMMUNICATION, IRRIGATION AND SEWER UTILITIES. IT WILL BE REQUIRED TO POTHOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW 8-INCH SEWER AND WATER PIPELINES. THE CONSTRUCTION MANAGER WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER AND CONTRACTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE SEWER, WATER, AND STORMWATER PIPELINE GRADES AS ILLUSTRATED ON THE DRAWINGS. THE CONTRACTOR WILL PREPARE HIS/HER PROPOSAL BASED ON THE ASSUMPTION THAT UNDERGROUND UTILITIES WILL NOT BE REQUIRED TO BE RELOCATED BY THE CONTRACTOR.
3. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER AWWA C-900 DR 18, PRESSURE CLASS 235 PVC WATER PIPELINE TO THE DESIGN GRADES ILLUSTRATED ON PLAN AND PROFILE PLAN SHEET NUMBER 18.
4. CONTRACTOR SHALL INSTALL THE 8-INCH DIAMETER SDR 26 PVC SANITARY SEWER PIPELINE TO THE DESIGN GRADES AS ILLUSTRATED ON PLAN AND PROFILE PLAN SHEET 18.
5. THE CONTRACTOR AND CONSTRUCTION MANAGER SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.

NORTH EVAN HEWES HIGHWAY SWALE FLOW LINE DATA CHART

NUMBER	STATION	DISTANCE FROM THE SURVEY BASELINE ALONG EVAN HEWES TO NORTH FLOW LINE	SWALE FLOW LINE ELEVATION
11	0+60	32	958.27
12	1+00	33.38'	958.17
13	1+50	33.19'	958.04
14	2+00	32.99'	957.91
15	2+50	32.79'	957.79
16	3+00	32.59	957.66
17	5+00	31.77'	957.15
18	5+50	31.56'	957.02
19	6+00	31.36'	956.89
20	6+50	31.15'	956.76
21	7+00	30.94'	956.64
22	7+50	30.74'	956.51
23	8+00	27.97'	956.38
24	8+50	25.01'	956.25
25	9+00	22.05'	956.13
26	9+50	19.09'	956.00
27	10+00	16.13'	955.87
28	10+50	13.17'	955.74
29	11+00	10.21'	955.61
30	11+50	7.50'	955.49
31	12+00	4.29'	955.36
32	12+50	1.33'	955.23
33	12+66	0.00'	955.19

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Blythe, CA 92225
(760) 922-4658

NO.	REVISIONS:	APPROVED	DATE

DESIGN BY: -
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PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 — R.C.E. NO.

07/08/2022 — DATE — 12/31/2022 — REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

STORM WATER DRAINAGE SWALE AND SECTIONS

C2.02 SHEET 19 OF 23 SHEETS

JOB NO. 542.088

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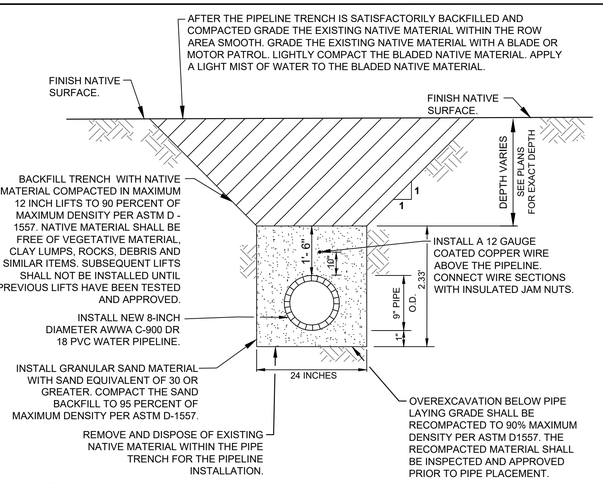


NOTES:

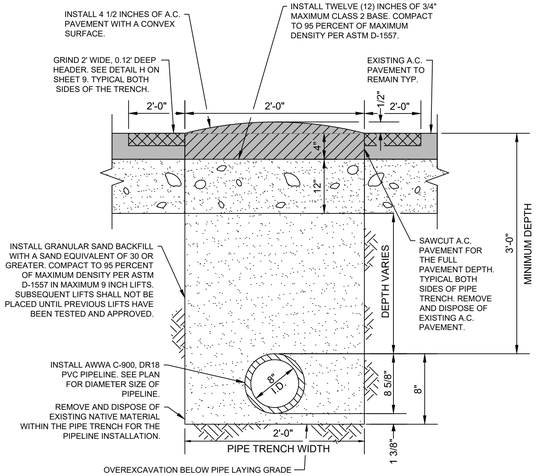
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA

   A) SHORING AS APPROVED BY THE ENGINEER.
   B) SLOPING BOTH TRENCH SIDES AT A 1:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

WATER PIPE TRENCH DETAIL IN NATIVE EARTH AREAS

NTS

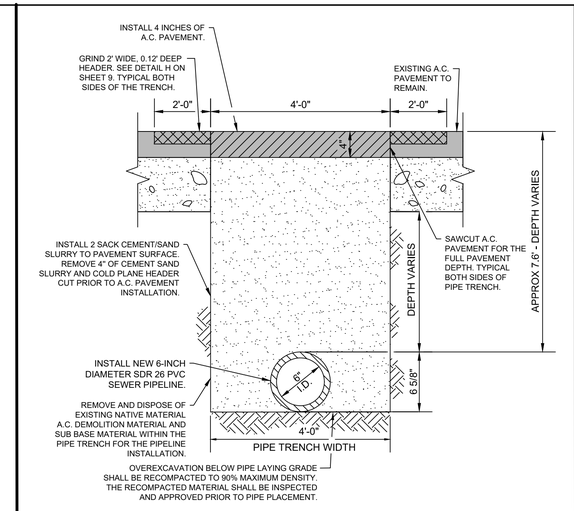
Z | 18 | 20



DOMESTIC WATER PIPELINE TRENCH ACROSS MOUNT SIGNAL AVENUE - DETAIL.

NTS

AA | 18 | 20



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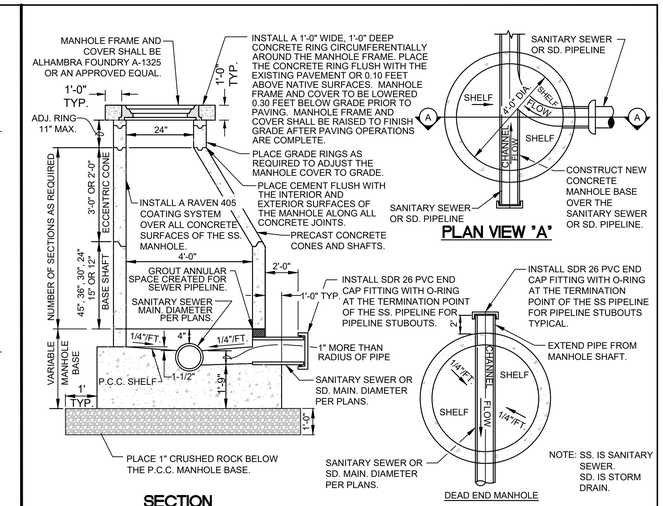
   A) SHORING AS APPROVED BY THE ENGINEER.
   B) USE OF A STEEL SHIELD.
   C) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

SANITARY SEWER LATERAL PIPELINE TRENCH ACROSS EVAN HEWES HIGHWAY - DETAIL.

NTS

BB | 4,5 | 20



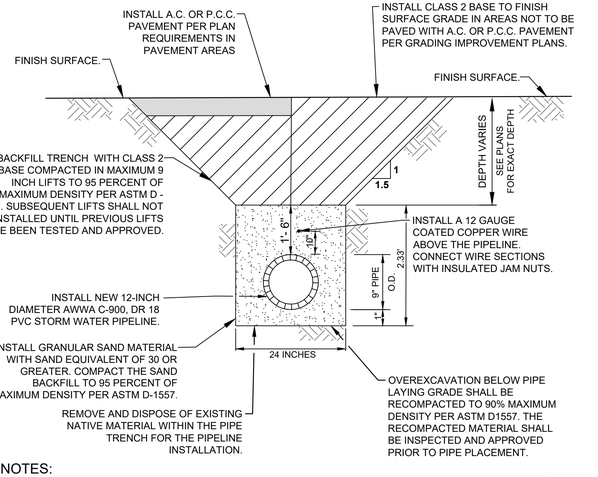
NOTES:

1. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C-478. THE CURING OF THE PRECAST UNITS SHALL CONFORM TO SECTION 207-2.7 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. THE MINIMUM WALL THICKNESS SHALL BE 6 INCHES.
2. THE CONCRETE SHELF OF THE MANHOLE SHALL BE SLOPED AT 1/4 INCH PER FOOT. THE SHELF SHALL RECEIVE A DOUBLE TROWEL FINISH. THE CONCRETE UTILIZED FOR THE CONCRETE BASE AND MANHOLE COLLAR SHALL CONTAIN 6 1/2 SACKS OF CONCRETE PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 P.S.I. AFTER 28 DAYS CURING.
3. WHENEVER PRACTICABLE, THE FRAME AND COVER SHALL BE PLACED DIRECTLY OVER THE INLET OF THE STRUCTURE EXCEPT AS OTHERWISE NOTED ON THE PLANS.
4. MANHOLE SHAFTS, CONES AND GRADE RINGS SHALL BE SET PLUMB.
5. PLACE CEMENT GROUT IN THE OPENINGS BETWEEN PRECAST MANHOLE UNITS AND GRADE RINGS FLUSH WITH THE INTERIOR AND EXTERIOR SURFACES PRIOR TO APPLYING THE ZEBRON COATING OR COMPLETING BACKFILL WORK AROUND THE EXTERIOR OF THE MANHOLE.
6. THE PIPELINE INVERTS SHALL DROP 0.10 FEET BETWEEN INLET AND OUTLET PIPELINES AT 90 DEGREE ANGLES.
7. VERTICAL WALL OF CONE SHALL BE OPPOSITE OUTLET OF MANHOLE.

SANITARY SEWER OR STORM WATER MANHOLE DETAIL

NTS

CC | 18 | 20



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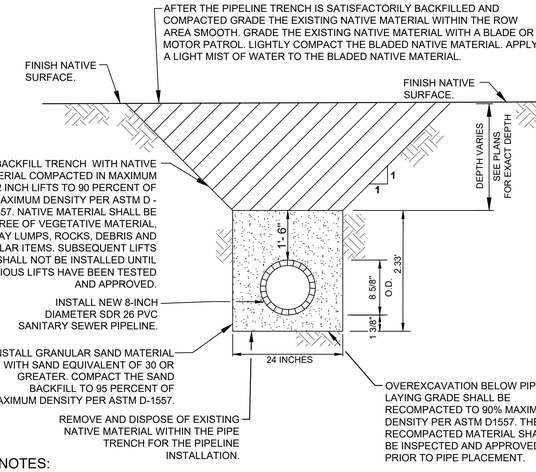
   B) SLOPING BOTH TRENCH SIDES AT A 1.5:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1.5 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

STORM WATER PIPE TRENCH DETAIL

NTS

DD | 4,5,20 | 20



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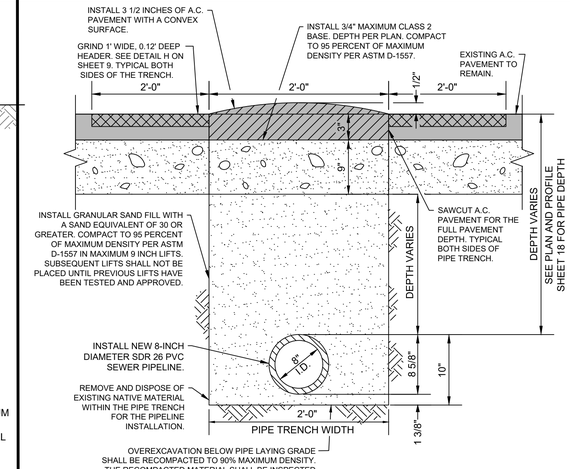
SANITARY SEWER PIPE TRENCH DETAIL

NTS

EE | 4 | 20



NOTES:

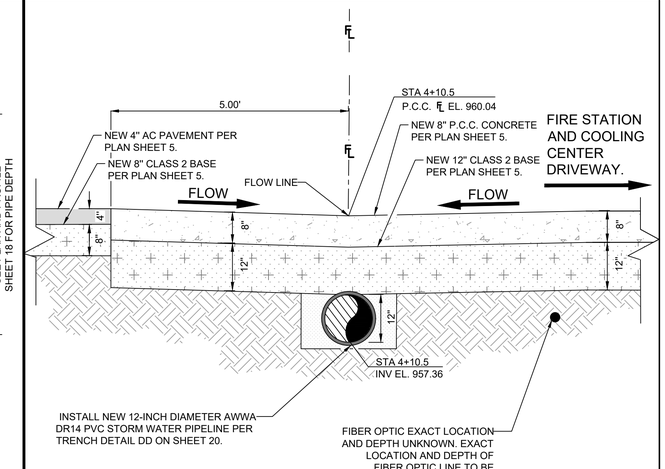
1. WHERE THE PERMIT OF A GOVERNING AGENCY SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE AGENCY REQUIREMENTS.
2. WHERE THE TRENCH DEPTH EXCEEDS 3', THE PIPELINE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING METHODS FOR EXCAVATION AND TRENCH STABILIZATION. THE METHOD OF EXCAVATION AND TRENCH STABILIZATION SHALL BE APPROVED BY CAL OSHA

   A) SHORING AS APPROVED BY THE ENGINEER.
   B) SLOPING BOTH TRENCH SIDES AT A 1.5:1 MAXIMUM ABOVE THE BOTTOM 3 FEET.
   C) "STEPPING OR BENCHING" BOTH TRENCH SIDES AT 3 FOOT VERTICAL INCREMENTS, THE WIDTH OF EACH BENCH SHALL BE 1.5 TIMES THE VERTICAL INCREMENT.
   D) USE OF A STEEL SHIELD.
   E) USE OF TRENCH JACKS.
3. WHEN THE PIPE TRENCH IS UNSTABLE DUE TO GROUND WATER INFILTRATION, PLACE 9 INCHES OF 1 INCH DIAMETER ROUND ROCK BENEATH THE STORMWATER PIPELINE.

TYPICAL SEWER PIPE TRENCH DETAIL IN PAVED AREAS

NTS

FF | 18 | 20



OFF-SITE STORM WATER PIPELINE CROSS-SECTION

NTS

H-H | 5 | 20

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NO.	REVISIONS:	APPROVED	DATE

DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:

SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:

WATER AND SEWER DETAIL SHEET

C2.03 SHEET 20 OF 23 SHEETS

JOB NO. 542.088

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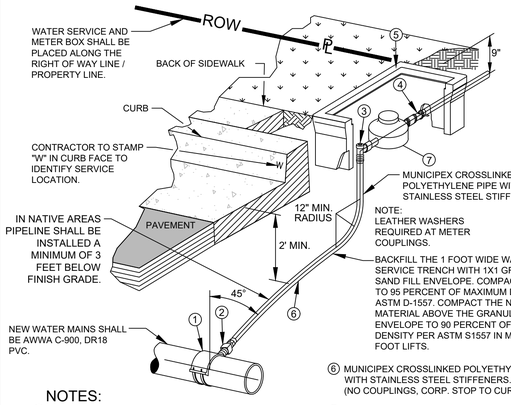
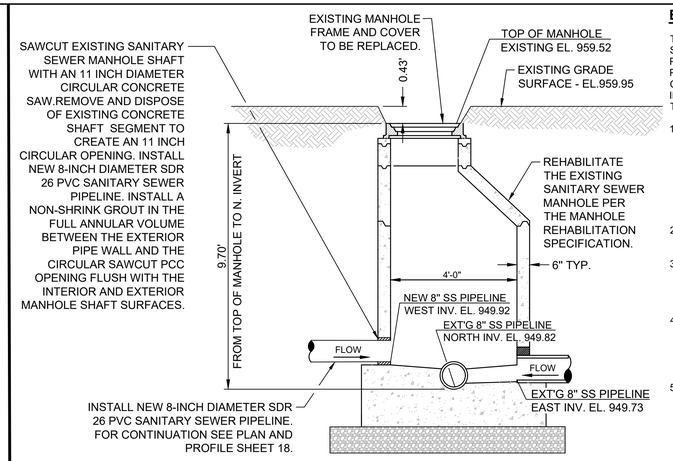


NOTES:

1. JAMES JONES MODEL NUMBER J-996 BRONZE DOUBLE STRAP SERVICE SADDLE WITH BRASS HARDWARE TO ACCOMMODATE A 2 INCH DIAMETER PIPELINE.
2. 2 INCH DIAMETER JAMES JONES MODEL NUMBER J-1930 CORPORATION STOP WITH BRASS COMPRESSION CONNECTION FITTING AND BRASS HARDWARE.
3. 2 INCH DIAMETER JAMES JONES MODEL NUMBER J-4205 ANGLE METER STOP WITH LOCK WING. PROVIDE A 2 INCH BRASS COMPRESSION COUPLING ON THE UPSTREAM SIDE OF THE ANGLE METER STOP WITH BRASS HARDWARE.
4. CUSTOMER'S BRASS BALL VALVE OR STAINLESS STEEL BALL VALVE WITH HAND OPERATOR.
5. INSTALL A J&R CONCRETE PRODUCTS 17" X 30" POLYMER-WATER METER BOX SERIES NO. W6B WITH 1 PIECE POLYMER COVER AND QUICK READ PORT.
6. MUNICIPEX CROSSLINKED POLYETHYLENE PIPE WITH STAINLESS STEEL STIFFENERS. (NO COUPLINGS, CORP. STOP TO CURB STOP).
7. INSTALL A 2" KANSTRUP FLOW IQ 3200 FLOW METER. MAXIMUM FLOW RATE SHALL BE 160 GPM. THE METER SHALL BE EQUIPPED WITH A DUAL RADIO BAND AMI FIXED NETWORK PER SCWD REQUIREMENT. PROVIDE FLANGED X POLYETHYLENE PIPE 316 SS OR BRASS COUPLING ADAPTERS AS REQUIRED.
8. THE REQUIRED SERVICE MUST BE APPROVED BY THE SCWD.
9. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET OR ALLEY FROM THE WATER MAIN TO THE METER ENCLOSURE, WHEREVER POSSIBLE.
10. THE METER LOCATION SHALL BE AS ILLUSTRATED ON THE PLANS AND THIS DETAIL UNLESS OTHERWISE SPECIFIED BY THE SCWD.

2" WATER SERVICE CONNECTION - DETAIL (GG)

NTS — 3,6,16 | 21



EXISTING MANHOLE SECTION VIEW
NTS

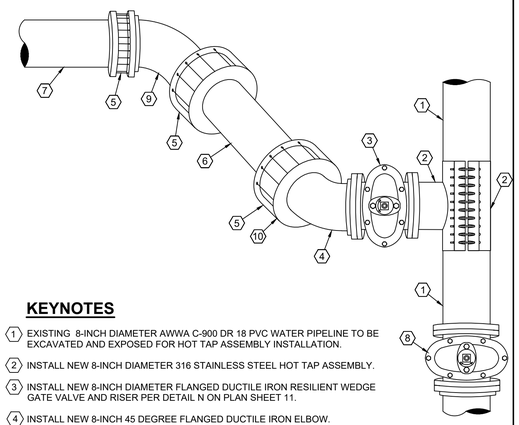
EXISTING MANHOLE REHABILITATION SPECIFICATION

THE EXISTING MANHOLE IS IN POOR CONDITION. THE MANHOLE SHALL BE REHABILITATED. THE INTERIOR MANHOLE SHAFT SIDEWALLS, CONE AND GRADE RINGS SHALL BE HYDRO-BLASTED AND THE WALL SURFACES REPAIRED PRIOR TO THE INSTALLATION OF A HIGH STRENGTH MORTAR TO RE-BUILD THE MANHOLE SIDEWALLS. ADDITIONAL PCC GRADE RINGS SHALL BE ADDED AT THE MANHOLE ENTRANCE OPENING TO ELEVATE THE MANHOLE RING AND COVER TO THE EXISTING NATIVE GRADE. A NEW MANHOLE FRAME AND COVER WITH A CONCRETE RING SHALL BE INSTALLED AT THE TOP OF THE REHABILITATED MANHOLE. NEW PCC FLOOR SHELVES SHALL BE CONSTRUCTED AT THE BOTTOM OF THE MANHOLE. FOLLOWING IS THE LIST OF MANHOLE REHABILITATION ITEMS TO BE COMPLETED:

1. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL ENSURE THAT THE EXISTING WASTEWATER FLOW THROUGH THE MANHOLE WILL NOT BE IMPEDED. THE CONTRACTOR SHALL FURNISH, INSTALL, AND REMOVE ANY NECESSARY DEBRIS CONTAINMENT DEVICES WHILE MAINTAINING THE WASTEWATER FLOW THROUGH THE MANHOLE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS COLLECTED FROM THE MANHOLE REHABILITATION EFFORT. THE CONTRACTOR SHALL ALSO PROVIDE PROPER EQUIPMENT TO COMPLY WITH CONFINED WORK SPACE WORK AREA AND HAZARDOUS ENVIRONMENT CONDITIONS. THE CONTRACTOR'S PERSONNEL SHALL BE TRAINED TO WORK IN CONFINED WORK SPACE AND ENVIRONMENTALLY HAZARDOUS AREAS.
2. THE CONTRACTOR SHALL ERECT BARRICADES AROUND THE MANHOLE TO INSURE PEDESTRIANS OR VEHICULAR TRAFFIC DOES NOT ENTER THE MANHOLE REHABILITATION AREA.
3. THE EXISTING INTERIOR CONCRETE MANHOLE SHAFT, CONE AND GRADE RING SURFACES SHALL BE HYDRO-BLASTED AT A MINIMUM 5,000 PSI PRESSURE OR AN APPROVED METHOD RECOMMENDED BY THE LINING SYSTEM MANUFACTURER AND APPROVED BY THE ENGINEER. A PNEUMATIC CHISEL MAY BE USED TO REMOVE DETERIORATED CONCRETE FROM ISOLATED AREAS WITHIN THE MANHOLE INTERIOR.
4. AFTER THE INTERIOR MANHOLE WALL SURFACES ARE CLEANED LOCALIZED REPAIRS SHALL BE PERFORMED USING RAPID SETTING MORTARS COMPATIBLE WITH THE LINING SYSTEM. REPAIR MORTARS SHALL BE USED TO FILL SURFACE IRREGULARITIES, VOIDS AND DETERIORATED SURFACES AND TO REPAIR THE UNDERLYING MANHOLE STRUCTURE TO A UNIFORM SURFACE. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED WHEN PERFORMING REPAIRS, MATERIAL HANDLING, MIXING INSTALLATION AND CURING.
5. A HIGH STRENGTH MORTAR SHALL BE APPLIED TO THE INTERIOR SURFACES OF THE MANHOLE AFTER THE ABOVE ITEMS HAVE BEEN SATISFACTORILY COMPLETED. THE HIGH STRENGTH MORTAR SHALL BE APPLIED IN CONTINUOUS LIFTS OF ½ INCH MINIMUM THICKNESS. THE HIGH STRENGTH MORTAR SHALL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATION AND CREATE A SMOOTH AND STRUCTURALLY SOUND INTERIOR SURFACE. THE HIGH STRENGTH MORTAR SHALL BE CURED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
6. A RAVEN 405 EPOXY COATING SYSTEM, OR AN APPROVED EQUAL, IS TO BE APPLIED TO THE INTERIOR SURFACE OF THE MANHOLE AFTER ITEM 5 ABOVE HAS BEEN SATISFACTORILY COMPLETED. A PRIMER RECOMMENDED BY THE MANUFACTURER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE EPOXY COATING SYSTEM. THE MINIMUM THICKNESS OF THE EPOXY COATING SYSTEM SHALL BE 125 MILS. DURING THE EPOXY COATING SYSTEM INSTALLATION, A MIL GAUGE SHALL BE USED TO VERIFY THAT THE MINIMUM THICKNESS OF THE LINING MEETS AND/OR EXCEEDS THE MINIMUM SPECIFIED THICKNESS.
7. AFTER THE LINING SYSTEM IS INSTALLED THE LINING SHALL BE SPARK TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION 2012 SECTION 500-2.4.2 AND REPAIRED PER SECTION 500-2.4.5.
8. A NEW CONCRETE BASE INCLUDING CHANNELS AND SHELVES SHALL BE CONSTRUCTED AT THE BOTTOM OF THE MANHOLE. THE CONCRETE SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
9. INSTALL A NEW CONCRETE MANHOLE COVER AND CONCRETE RING AROUND THE MANHOLE COVER 0.10 FEET ABOVE THE EXISTING NATIVE GRADE SURFACE IN ACCORDANCE WITH THE NEW 4 FOOT PCC MANHOLE DETAIL FF ON THIS PLAN SHEET 20.

SANITARY SEWER PIPELINE CONNECTION AND EXISTING MANHOLE REHABILITATION DETAIL (HH)

NTS — 18 | 21

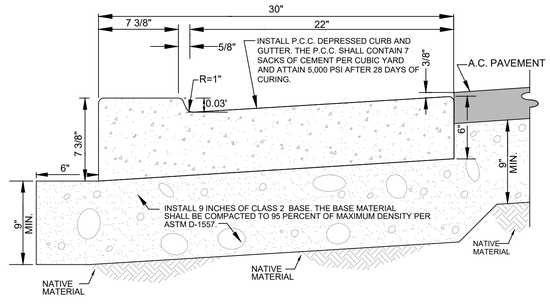


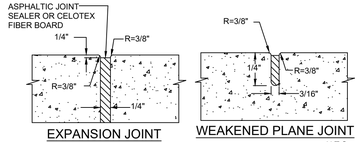
KEYNOTES

1. EXISTING 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE TO BE EXCAVATED AND EXPOSED FOR HOT TAP ASSEMBLY INSTALLATION.
2. INSTALL NEW 8-INCH DIAMETER 316 STAINLESS STEEL HOT TAP ASSEMBLY.
3. INSTALL NEW 8-INCH DIAMETER FLANGED DUCTILE IRON RESILIENT WEDGE GATE VALVE AND RISER PER DETAIL N ON PLAN SHEET 11.
4. INSTALL NEW 8-INCH 45 DEGREE FLANGED DUCTILE IRON ELBOW.
5. INSTALL NEW 8- INCH DUCTILE IRON RESTRAINED JOINT FITTING.
6. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE.
7. INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PVC WATER PIPELINE. FOR CONTINUATION SEE PLAN AND PROFILE SHEET 18.
8. EXISTING 8-INCH RESILIENT WEDGE GATE VALVE TO REMAIN.
9. INSTALL NEW 8-INCH 45 DEGREE MECHANICAL JOINT DUCTILE IRON ELBOW.
10. INSTALL NEW 8-INCH DUCTILE IRON FLANGED COUPLING ADAPTER.

WATER PIPELINE CONNECTION DETAIL (II)

NTS — 18 | 21





EXPANSION JOINT
N.T.S.

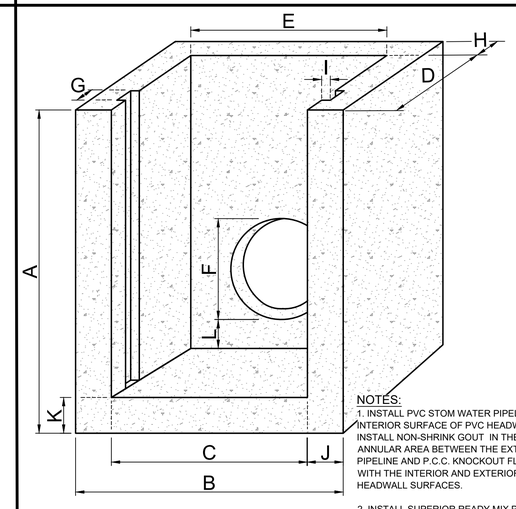
WEAKENED PLANE JOINT
N.T.S.

NOTES FOR CURB AND GUTTER AND SIDEWALK

1. PLACE WEAKENED PLANE JOINTS A MINIMUM OF 12-FEET ALONG THE DEPRESSED P.C.C. CURB AND GUTTER. MATCH WEAKEND PLANE JOINTS OF ADJOINING P.C.C. INFRASTRUCTURE.
2. THE GUTTER SURFACE CURB FACE AND TOP OF CURB SHALL RECIEVE A DOUBLE TROWEL FINISH.
3. THE CURB AND GUTTER EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN ± .01 FEET WITH A MAXIMUM VARIANCE OF 0.02 FEET FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FOOT SECTION. THE HORIZONTAL CURB AND GUTTER EDGES SHALL NOT VARY MORE THAN 1/4 INCH IN ANY GIVEN 100 FOOT SECTION.
4. THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.

DEPRESSED P.C.C. CURB AND GUTTER DETAIL (JJ)

NTS — 10,14 | 21

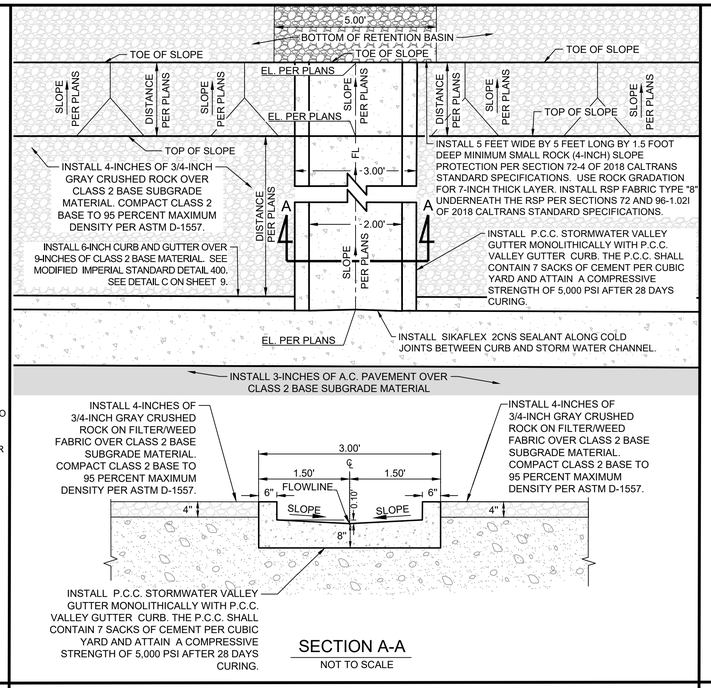


NOTES:
1. INSTALL PVC STOM WATER PIPELINE TO INTERIOR SURFACE OF PVC HEADWALL. INSTALL NON-SHRINK GOUT IN THE ANNULAR AREA BETWEEN THE EXTERIOR PIPELINE AND P.C.C. KNOCKOUT FLUSH WITH THE INTERIOR AND EXTERIOR HEADWALL SURFACES.
2. INSTALL SUPERIOR READY MIX P.C.C. HEADWALL STRUCTURE.
3. INSTALL GRADE BOARD TO WEIR ELEVATION NOTED ON SECTION I-I.

DIMENSIONS												
	A	B	C	D	E	F	G	H	I	J	K	L
3X15	36"	30"	24"	15 1/2"	21"	15 1/2"	1"	3 1/2"	1"	3"	2"	2"
3X20	39"	30"	24"	17"	22 1/2"	20"	1"	3"	1"	3"	3"	3 1/2"
5X18	64"	34"	26"	23"	19"	18"	---	4"	---	4"	3 1/2"	2 1/2"
5X30	68"	54"	44"	23"	36"	30"	---	4"	---	4"	3 1/2"	3"

P.C.C. HEADWALL DETAIL (KK)

NTS — 4,5,21 | 21



SECTION A-A
NOT TO SCALE

P.C.C. CURB INLET STORM WATER CHANNEL - DETAIL (LL)

NTS — 4,5 | 21

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DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:

NGS BENCHMARK "M-59 1927"

ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER — JAMES G. HOLT — No. 31773 — Exp. 12-31-22 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.

07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
WATER, SEWER AND DEPRESSED CURB & GUTTER DETAIL SHEET

C2.04 SHEET 21 OF 23 SHEETS
JOB NO. 542.088

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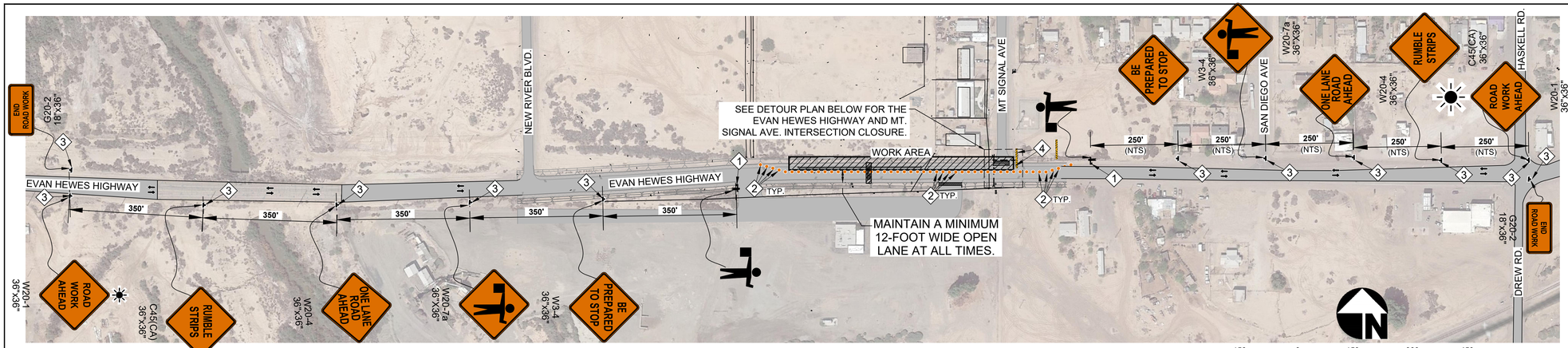
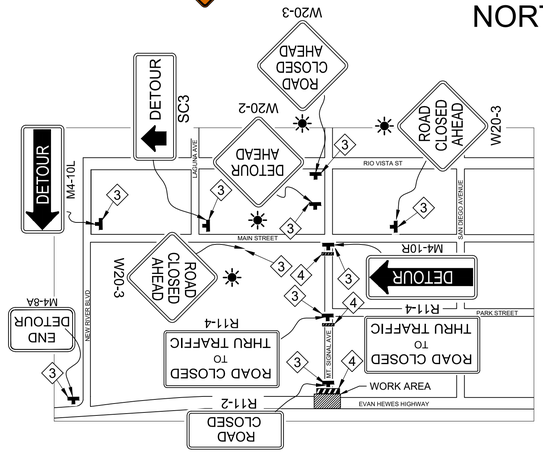


NORTH/SOUTH HALF ROADWAY CLOSURE ALONG EVAN HEWES HIGHWAY WITH FLAGGERS - CASE 1 & CASE 2 (TO BE MIRRORED FOR THE EASTBOUND CLOSURE*)

***NOTE: TRAFFIC CONTROL DEVICES ILLUSTRATED ON THIS SHEET SHIFTS TRAFFIC TO ALLOW THE CONTRACTOR TO HAVE THE WORK ZONE ON THE NORTH SIDE OF EVAN HEWES HIGHWAY. THE CONTRACTOR SHALL USE THE SAME MIRRORED TRAFFIC CONTROL TO ALLOW THE WORK ZONE TO BE ON THE SOUTH SIDE OF EVAN HEWES HIGHWAY. THE TRAFFIC CONTROL SHALL COMPLY WITH CALTRANS STANDARD PLAN T9 (TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES), T10 (TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS) AND T13 (TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS).**

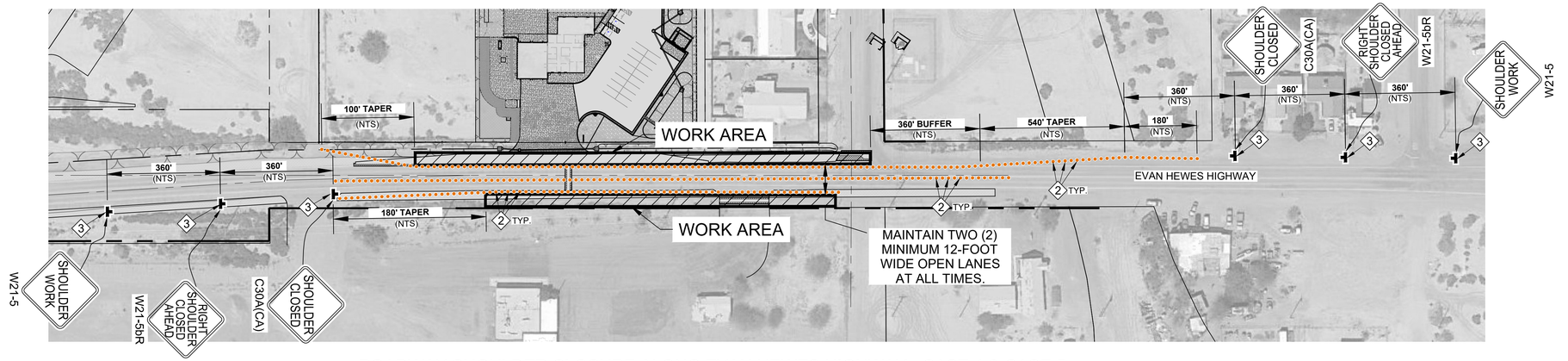


DETOUR PLAN FOR THE EVAN HEWES HIGHWAY AND MT. SIGNAL AVE. INTERSECTION CLOSURE - CASE 3

NOT TO SCALE

TRAFFIC CONTROL CASE NO.	PROPOSED SCOPE OF WORK	TRAFFIC CONTROL PLAN TO BE IMPLEMENTED
CASE 1**	NORTH HALF OF 6" SS PIPELINE LATERAL TRENCH AND PAVING OPERATION ACROSS EVAN HEWES HIGHWAY	NORTH HALF ROADWAY CLOSURE ALONG EVAN HEWES HIGHWAY WITH FLAGGERS
CASE 2**	SOUTH HALF OF 6" SS PIPELINE LATERAL TRENCH AND PAVING OPERATION ACROSS EVAN HEWES HIGHWAY	SOUTH HALF ROADWAY CLOSURE ALONG EVAN HEWES HIGHWAY WITH FLAGGERS
CASE 3	8" WATER PIPELINE ACROSS MT. SIGNAL AVENUE	DETOUR PLAN FOR THE EVAN HEWES HIGHWAY AND MT. SIGNAL AVENUE INTERSECTION CLOSURE
CASE 4	8" WATER PIPELINE, 6" SS PIPELINE LATERAL, AND GAP PAVEMENT ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY	ROADWAY SHOULDER CLOSURE ALONG THE NORTH SIDE OF EVAN HEWES HIGHWAY WITH NARROWED TWO (2) 12-FOOT LANES SEPARATED WITH TRAFFIC CONES
CASE 5	8" SS MAIN TRENCH AND PAVEMENT REPAIR OF A PRIVATE DRIVEWAY ALONG THE SOUTH SIDE OF EVAN HEWES HIGHWAY	ROADWAY SHOULDER CLOSURE ALONG THE SOUTH SIDE OF EVAN HEWES HIGHWAY WITH NARROWED TWO (2) 12-FOOT LANES WITH TRAFFIC CONES

** THE CONTRACTOR SHALL MINIMIZE THE DURATION OF THE LANE CLOSURES ALONG EVAN HEWES HIGHWAY.



ROADWAY SHOULDER CLOSURE ALONG EVAN HEWES HIGHWAY - CASE 4 & CASE 5

NOT TO SCALE

TRAFFIC CONTROL LEGEND

ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE	●
2.	DIRECTION OF TRAFFIC	→
3.	TYPE III BARRICADE	
4.	WARNING/REGULATORY SIGN	
5.	WORK AREA	
6.	FLASHING BEACON	

TRAFFIC CONTROL KEYNOTES

1. FLAGGER.
2. INSTALL REFLECTIVE TRAFFIC CONES/DELINEATERS AT 15 FEET ON CENTER ALONG THE TAPER. TYPICAL.
3. INSTALL WARNING/REGULATORY SIGN AS ILLUSTRATED ON THE PLAN.
4. INSTALL TYPE III BARRICADE.

GENERAL TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL DEVICES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CA MUTCD SUPPLEMENT, AND THE LATEST CALTRANS STANDARD PLANS UNLESS SPECIFIED OTHERWISE.
2. TRAFFIC CONTROL SHOWN HEREIN IS THE MINIMUM REQUIRED. ADDITIONAL TRAFFIC CONTROL MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REPRESENTATIVE, OR THE RESIDENT ENGINEER. THESE CHANGES MAY BE DONE IN THE FIELD.
3. TRAFFIC CONTROL DEVICES SHOWN ON PLANS ARE LOCATED APPROXIMATELY AND SHALL BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITIONS. ALL SUCH CHANGES MADE DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CA MUTCD, CA MUTCD SUPPLEMENT, IMPERIAL COUNTY STANDARDS AND SPECIFICATIONS.
4. CONTRACTOR SHALL INSPECT TRAFFIC CONTROL AT THE BEGINNING AND AT THE END OF EACH WORKING DAY TO ENSURE COMPLIANCE WITH THESE PLANS, THROUGHOUT EACH WORK PERIOD, CONTRACTOR SHALL INSPECT TRAFFIC CONTROL (SIGNS, BARRICADES AND DELINEATORS) AND MAINTAIN SAME IN ACCORDANCE WITH TRAFFIC CONTROL PLANS.
5. THE CONTRACTOR SHALL MAINTAIN THE INGRESS AND EGRESS OF THE RESIDENTIAL AND BUSINESS ACCESS AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS RAMP(S) OR TRAVEL WAYS, IF NECESSARY.
6. ALL SIGNS SHALL BE HIGH INTENSITY REFLECTIVE. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTIVE, FLASHING LIGHTS ARE OPTIONAL.
7. THE INTENSITY AND DISTRIBUTION OF LIGHT FROM EACH ILLUMINATED SIGNAL LENS SHOULD CONFORM TO THE CURRENT "STANDARDS FOR VEHICLE TRAFFIC CONTROL SIGNAL HEADS" AND "TRAFFIC SIGNAL LAMPS" (SEE SECTION 1A.11 OF LATEST VERSION OF CA MUTCD), IF A SIGNAL INDICATION IS OPERATED IN THE FLASHING MODE FOR NIGHTTIME OPERATION AND THE SIGNAL INDICATION IS SO BRIGHT AS TO CAUSE EXCESSIVE GLARE, SOME FORM OF AUTOMATIC DIMMING SHOULD BE USED TO REDUCE THE BRILLIANCE OF THE SIGNAL INDICATION.
8. REFER TO THE LATEST REVISION OF CA MUTCD REGARDING THE NOTES FOR EACH TYPICAL APPLICATION CALLED OUT ON THIS PLAN.
9. ~~CONTRACTOR SHALL INSTALL ADA COMPLIANT TEMPORARY RAMPS BETWEEN THE EDGE OF THE EXISTING PAVEMENT, NATIVE SURFACE AND EXCAVATED SURFACE AT THE END OF EACH WORK DAY.~~
10. CONTRACTOR SHALL INSTALL CLASS 2 BASE UP TO FINISHED GRADE ELEVATION AFTER SAWCUT AND REMOVAL OF EXISTING A.C. PAVEMENT SECTION PRIOR TO OPENING THE LANE TO TRAFFIC. CONTRACTOR SHALL PLACE CLASS 2 BASE FROM THE EXISTING EDGE OF PAVEMENT TO THE EDGE OF THE SAWCUT AREA AT A SLOPE NO STEEPER THAN 6:1.
11. NO STREET PARKING SHALL BE ALLOWED ALONG NORTH SIDE OR SOUTH SIDE OF EVAN HEWES HIGHWAY, WITHIN THE CONSTRUCTION ZONES DURING THE PROJECT CONSTRUCTION PERIOD. CONTRACTOR SHALL INSTALL NO PARKING SIGNS (R8-3A) AT ALL REQUIRED AREAS AT LEAST ONE WEEK PRIOR TO BEGINNING OF CONSTRUCTION .
12. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ACCORDING TO 2018 REVISED CALTRANS STANDARD PLAN RSP T13. PROVIDE CROSSWALK CLOSURES AND PEDESTRIAN DETOURS IF REQUIRED TO PROVIDE TEMPORARY PEDESTRIAN ACCESS AT ALL INTERSECTIONS AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. IF NECESSARY CONTRACTOR SHALL PROVIDE FLAG PERSONNEL FOR ADDITIONAL TRAFFIC CONTROL AS NEEDED.
13. ALL UTILITY TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY OR A STEEL PLATE SHALL BE PLACED OVER ALL OPEN TRENCH. IF A PORTION OF THE CONSTRUCTION AREA MUST REMAIN OPEN AT THE END OF EACH WORK DAY, EACH EXPOSED SECTION MUST BE COMPLETELY COVERED WITH STEEL TRENCH PLATES OR SURROUNDED WITH BARRICADES, CONES, AND CAUTION TAPE AS APPROVED BY THE RESIDENT ENGINEER. INSTALL COLD-MIX ALONG THE EDGES OF THE TRENCH PLATES TO CREATE A SMOOTH TRANSITION FROM THE PAVEMENT SURFACE TO THE TRENCH PLATES.
14. ALL ADJACENT BUSINESSES, RESIDENCES, SCHOOLS AND CHURCHES SHALL BE DULY NOTIFIED BY THE CONTRACTOR, IN WRITING, OF HIS PROPOSED OPERATIONS. NOTICE SHALL BE DELIVERED AT LEAST TWO (2) WORKING WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPRODUCTION OF NOTIFICATION LETTERS. THE NOTIFICATION LETTERS SHALL BE WRITTEN IN ENGLISH AND SPANISH LANGUAGES. RE-NOTIFICATION WILL BE REQUIRED IF THE CONTRACTOR'S SCHEDULE IS ALTERED OR OTHER DELAYS OCCUR WHICH AFFECT THE PROJECT SCHEDULE.
15. IF CONSTRUCTION OCCURS DURING THE SCHOOL YEAR, CONTRACTOR SHALL NOTIFY IN WRITING TO THE SEELEY SCHOOL DISTRICT OF THE PROPOSED ROAD CLOSURES AT LEAST TWO (2) WORKING WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL DISTRICT ANY ADDITIONAL TRAFFIC CONTROL THAT MAY REQUIRED FOR SCHOOL BOUND PEDESTRIAN AND VEHICULAR TRAFFIC.
16. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ALLOW REGULARLY SCHEDULED SOLID WASTE DISPOSAL PICK UP ALONG THE AFFECTED STREET SECTIONS DURING THE PROJECT CONSTRUCTION PERIOD.
17. CONTRACTOR SHALL COVER EXISTING TRAFFIC SIGNS, TRAFFIC SIGNALS, OR PEDESTRIAN SIGNAL INDICATIONS SHOULD SAID CONTROLS CONFLICT WITH TEMPORARY TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE COUNTY OF IMPERIAL RESIDENT ENGINEER.
18. WHENEVER THE WORK CAUSES OBLITERATION OF PAVEMENT DELINEATION, TEMPORARY OR PERMANENT PAVEMENT DELINEATION SHALL BE IN PLACE PRIOR TO OPENING THE TRAVELED WAY TO PUBLIC TRAFFIC. LANE LINES AND CENTERLINE PAVEMENT DELINEATION SHALL BE PROVIDED AT ALL TIMES FOR TRAVELED WAYS OPEN TO THE PUBLIC TRAFFIC.
19. CONTRACTOR SHALL REPLACE/REPAIR ANY AND ALL STRIPING, PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS, AND CURB PAINT DISRUPTED OR REMOVED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE RESIDENT ENGINEER.
20. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH FLASHING YELLOW BEACONS, TYPE-B ON ALL W20-1, W20-2, C-19 SIGNS AND ON ALL TYPE-III AND TYPE-II BARRICADES GUARDING THE WORK AREA OVERNIGHT.

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NO.	REVISIONS:	APPROVED	DATE

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DESIGN BY: -
DRAWN BY: -
CHECKED BY: JGH

PROJECT BENCH MARK:
NGS BENCHMARK "M-59 1927"
ELEVATION = 960.45 (COH 88+1000')

REGISTERED PROFESSIONAL ENGINEER JAMES G. HOLT No. 31773 Exp. 12-31-22 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

JAMES G. "JACK" HOLT — 31773 R.C.E. NO.
07/08/2022 DATE — 12/31/2022 REG. EXP.

PROJECT TITLE:
SEELEY FIRE STATION AND COOLING CENTER

SHEET CONTENT:
TRAFFIC CONTROL PLAN

C2.05 SHEET
22 OF 23 SHEETS
JOB NO. 542.088

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SIGNAGE CHART

#	SIGN/PLAQUE	SIGN DESIGNATION	SIZE	BACKGROUND COLOR	QUANTITY
19	NO PARKING ANY TIME	R26CA	12"X18"	WHITE	4
9	NEW FIRE TRUCK SIGN AND FLASHING BEACON	W11-18	30"X30"	YELLOW	2
9	PREPARE TO STOP WHEN FLASHING	CUSTOM	24"X36"	YELLOW	2
17	EMERGENCY ACESS KEEP CLEAR	SR46CA	24"X30"	WHITE	2
18	RIGHT LANE MUST TURN RIGHT	R3-7	30"X30"	WHITE	1
23	NEW FIRE TRUCK SIGN	W11-18	30"X30"	YELLOW	2
23	AHEAD SIGN	W16-9P	24"X12"	YELLOW	2

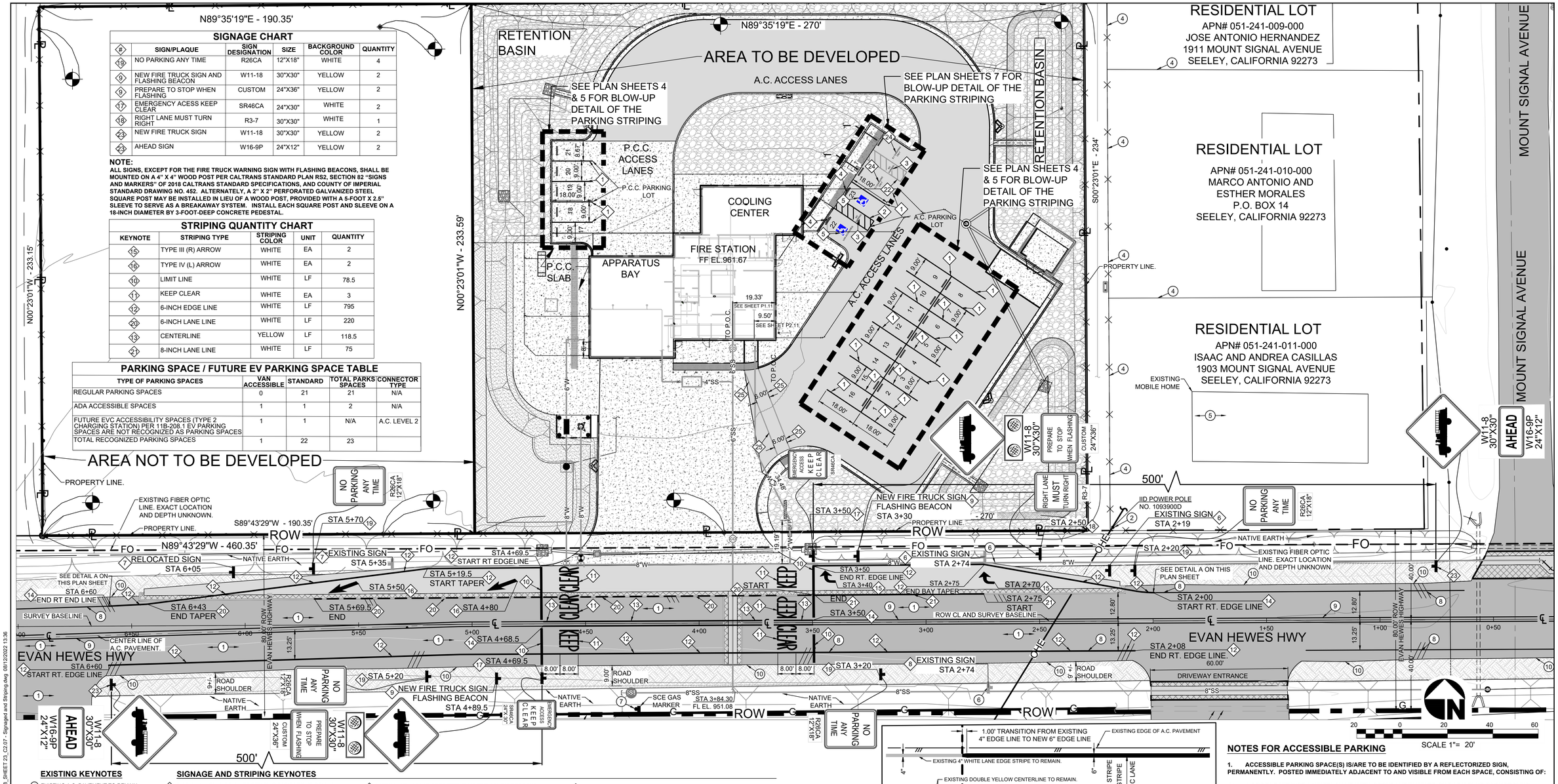
NOTE:
ALL SIGNS, EXCEPT FOR THE FIRE TRUCK WARNING SIGN WITH FLASHING BEACONS, SHALL BE MOUNTED ON A 4" X 4" WOOD POST PER CALTRANS STANDARD PLAN RS2, SECTION 82 "SIGNS AND MARKERS" OF 2018 CALTRANS STANDARD SPECIFICATIONS, AND COUNTY OF IMPERIAL STANDARD DRAWING NO. 452. ALTERNATELY, A 2" X 2" PERFORATED GALVANIZED STEEL SQUARE POST MAY BE INSTALLED IN LIEU OF A WOOD POST, PROVIDED WITH A 5-FOOT X 2.5" SLEEVE TO SERVE AS A BREAKAWAY SYSTEM. INSTALL EACH SQUARE POST AND SLEEVE ON A 18-INCH DIAMETER BY 3-FOOT-DEEP CONCRETE PEDESTAL.

STRIPING QUANTITY CHART

KEYNOTE	STRIPING TYPE	STRIPING COLOR	UNIT	QUANTITY
15	TYPE III (R) ARROW	WHITE	EA	2
16	TYPE IV (L) ARROW	WHITE	EA	2
10	LIMIT LINE	WHITE	LF	78.5
17	KEEP CLEAR	WHITE	EA	3
12	6-INCH EDGE LINE	WHITE	LF	795
20	6-INCH LANE LINE	WHITE	LF	220
13	CENTERLINE	YELLOW	LF	118.5
21	8-INCH LANE LINE	WHITE	LF	75

PARKING SPACE / FUTURE EV PARKING SPACE TABLE

TYPE OF PARKING SPACES	VAN ACCESSIBLE	STANDARD	TOTAL PARKS SPACES	CONNECTOR TYPE
REGULAR PARKING SPACES	0	21	21	N/A
ADA ACCESSIBLE SPACES	1	1	2	N/A
FUTURE EVC ACCESSIBILITY SPACES (TYPE 2 CHARGING STATION) PER 11B-208.1 EV PARKING SPACES ARE NOT RECOGNIZED AS PARKING SPACES	1	1	N/A	A.C. LEVEL 2
TOTAL RECOGNIZED PARKING SPACES	1	22	23	

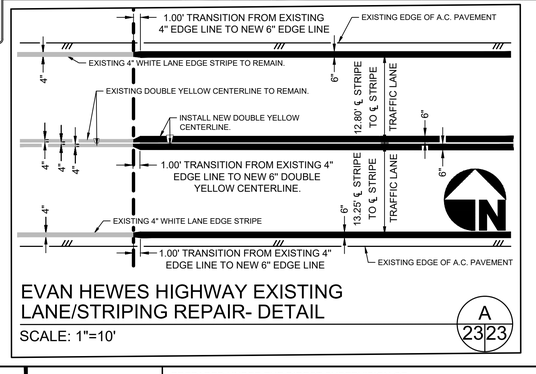


EXISTING KEYNOTES

1. EXISTING A.C. PAVEMENT TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING COMMUNICATION ENCLOSURE TO REMAIN.
4. EXISTING FENCE TO REMAIN.
5. EXISTING BUILDING TO REMAIN.
6. EXISTING "END 40 SPEED LIMIT" SIGN TO REMAIN.
7. EXISTING GAS MARKER TO REMAIN.
8. EXISTING 4" WHITE LANE EDGE STRIPING.
9. EXISTING DOUBLE YELLOW CENTERLINE.
10. EXISTING EDGE OF PAVEMENT.

SIGNAGE AND STRIPING KEYNOTES

1. INSTALL 4-INCH WIDE WHITE STRIPING FOR PARKING STALLS TYPICAL.
2. INSTALL 4-INCH WIDE BLUE STRIPING PER CALTRANS STANDARD PLAN A90A.
3. INSTALL "NO PARKING" LEGEND PER 2018 CALTRANS STANDARD PLAN A24E. THE LETTERS SHALL BE WHITE AND BE NO LESS THEN 12" HIGH. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LEGEND.
4. INSTALL BLUE PAINT ON CURB PER CALTRANS STANDARD PLAN A90B.
5. INSTALL AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) BLUE SYMBOL PER CALTRANS STANDARD PLAN A24C AND CALTRANS STANDARD PLAN A90A.
6. RELOCATE EXISTING "END 40MPH SPEED LIMIT" SIGN FROM STATION 2+74 TO STATION 2+19 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
7. RELOCATE "SPEED CHECKED BY RADAR" SIGN FROM STATION 5+35 TO STATION 6+05 AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COORDINATE THE SIGN RELOCATION WITH THE ICDPW OFFICE.
8. COORDINATE REMOVAL AND TEMPORARY RELOCATION OF EXISTING "SPEED LIMIT 40MPH" SIGN WITH THE ICDPW OFFICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. AFTER THE INSTALLATION OF THE SANITARY SEWER PIPELINE AND GRADING OF THE SWALE AND ROAD SHOULDER, INSTALL THE SIGN IN A PERMANENT LOCATION PER THE ICDPW REQUIREMENTS.
9. INSTALL NEW SOLAR OPERATED "R247-E" FLASHING BEACONS CONTROLLED WITH "R838" WIRELESS BEACON CONTROLLER AS MANUFACTURED BY CARMANAH (WWW.CARAMANAH.COM), OR AN APPROVED EQUAL, AND PER THE SPECIAL CONDITION SECTION FOR OTHER RELATED SIGN COMPONENT REQUIREMENTS INCLUDED IN THE SPECIFICATIONS/PROJECT MANUAL. THE SOLAR PANEL SHALL CONSIST OF AN "R247-F" LARGE 30W INTEGRATED SOLAR ENGINE AS SPECIFIED AND RECOMMENDED BY CARMANAH MANUFACTURER OR AN APPROVED EQUAL. MOUNT A W11-8 (FIRE ENGINE SIGN) ABOVE THE FLASHING BEACON AND A CUSTOM SIGN STATING "PREPARE TO STOP WHEN FLASHING" BENEATH THE FLASHING BEACON ON A 6" X 6" WOOD POST PER CALTRANS STANDARD PLAN RS2 WITH BACK BRACE AND BREAKAWAY FEATURE AND PER SECTION 82 OF 2018 CALTRANS STANDARD SPECIFICATIONS. ALTERNATELY, THE CONTRACTOR MAY INSTALL THE FLASHING BEACONS AND SIGNS MOUNTED ON TWO (2) 2" X 2" PERFORATED GALVANIZED STEEL SQUARE POSTS PROVIDED WITH BACK BRACES AND 5-FOOT X 2.5" SLEEVES TO SERVE AS A BREAKAWAY SYSTEM. INSTALL EACH SQUARE POST AND SLEEVE ON A18-INCH DIAMETER BY 3-FOOT DEEP CONCRETE PEDESTAL. THE BOTTOM OF THE LOWEST SIGN SHALL BE 5 FEET ABOVE THE FINISH GRADE AS ILLUSTRATED IN THE COUNTY OF IMPERIAL STANDARD DRAWING NO. 452. ALL SIGNS SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD STANDARDS.
10. INSTALL LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
11. INSTALL "KEEP CLEAR" PER CALTRANS STANDARD PLAN A24E.
12. INSTALL WHITE 6-INCH EDGELINE PER DETAIL 27B OF CALTRANS STANDARD PLAN A20B.
13. INSTALL YELLOW CENTERLINE PER DETAIL 21 OF CALTRANS STANDARD PLAN A20A.
14. INSTALL TRANSITION YELLOW CENTERLINE AND WHITE LANE LINE FROM 4" - 6" PER DETAIL A ON THIS PLAN SHEET.
15. INSTALL TYPE III (R) ARROW PER CALTRANS STANDARD PLAN A24B.
16. INSTALL TYPE VI (L) ARROW PER CALTRANS STANDARD PLAN RSP A24A.
17. INSTALL "NEW EMERGENCY ACCESS KEEP CLEAR" SR46 (CA) SIGN.
18. INSTALL NEW "RIGHT LANE MUST TURN RIGHT" R3-7 SIGN.
19. INSTALL NEW "NO PARKING ANY TIME" R26A (CA) SIGN.
20. INSTALL WHITE 6-INCH-WIDE LANE LINE PER DETAIL 9 OF CALTRANS STANDARD PLAN A20A.
21. INSTALL WHITE 8-INCH-WIDE CHANELIZING LINE PER DETAIL 38A OF CALTRANS STANDARD PLAN A20D.
22. INSTALL 4-INCH WIDE WHITE DIAGONAL STRIPING PER CALTRANS STANDARD PLAN A90A.
23. INSTALL NEW YELLOW W11-8 AND W16-9P SIGNS.
24. INSTALL ELECTRIC VEHICLE CHARGING STATION STRIPING PER THE 2019 CALIFORNIA STANDARDS FOR ACCESSIBLE DESIGN GUIDE SECTION 11B-812.9 "SURFACE MARKING"
25. INSTALL WHITE BASIC CROSSWALK STRIPING PER 2018 CALTRANS STANDARD PLAN A24F.



EVAN HEWES HIGHWAY EXISTING LANE/STRIPING REPAIR- DETAIL

SCALE: 1"=10'

A 23/23

NOTES FOR ACCESSIBLE PARKING

1. ACCESSIBLE PARKING SPACE(S) IS/ARE TO BE IDENTIFIED BY A REFLECTORIZED SIGN, PERMANENTLY. POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH SPACE, CONSISTING OF:
   - A) A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND.
   - B) THE SIGN SHALL ☐70 IN.² IN AREA.
   - C) ADDITIONAL LANGUAGE OR SIGN BELOW THE SYMBOL OF ACCESSIBILITY STATING, "MINIMUM FINE $250".
   - D) WHEN IN THE PATH OF TRAVEL, THEY SHALL BE POSTED ☐80" FROM THE BOTTOM OF THE SIGN TO PARKING SPACE FINISHED GRADE.
   - E) SIGNS MAY ALSO BE CENTERED ON THE WALL OF THE INTERIOR END OF THE PARKING SPACE.
   - F) VAN-ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.
   - G) IN ADDITION, THE SURFACE OF EACH ACCESSIBLE SPACE IS REQUIRED TO BE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. INSTALL AN ADDITIONAL ACCESSIBLE PARKING SIGN IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE IN ACCORDANCE WITH CALIFORNIA BUILDING CODE SECTION 11B-502.8.2. THE SIGN SHALL BE ☐17" X 22" WITH LETTERING NOT ≤1" IN HEIGHT. THE REQUIRED WORDING IS AS FOLLOWS:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT OR BY TELEPHONING _____." BLANK SPACES SHALL BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART OF THE SIGN. MOUNT THE SIGN ON A POST OR ON THE BUILDING WALL WHICHEVER IS MORE VISIBLE TO PUBLIC. THE EXACT LOCATION OF THE SIGN INSTALLATION LOCATION SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION.

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