# 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT

## BETWEEN "C" STREET AND OLD SR-86

IN THE CITY OF IMPERIAL, COUNTY OF IMPERIAL, STATE OF CALIFORNIA. BID NO. 2024-01

#### GENERAL NOTES

1. CITY FNCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.

2. THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH CITY OF IMPERIAL STANDARDS (OR CALTRANS IF IN STATE RIGHT OF WAY) AND AS APPROVED BY THE DEVELOPMENT SERVICES DEPARTMENT 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 ELEVATION 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

7. UTILITIES COORDINATION NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE REFERENCED AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT. 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 EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ACCURATE VERIFICATION AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTORS REPSONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, PACIFIC BELL, TELEPHONE COMPANY, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED. UTILITY AGENCIES PRIOR TO STARTING HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT": AT 1-800 422 4133

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS. IF NEEDED.

9. CONSTRUCT A PUBLIC STREET LIGHT SYSTEM CONFORMING TO APPROPRIATE STANDARDS AND STREET LIGHT SPECIFICATIONS. POWER SOURCES AND RUNS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL POWER SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY EASEMENT.

10. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.

11. PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. CITY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSABILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS.

12. ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.

13. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.

14. THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.

15. THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPRTY LINE UNLESS OTHERWISE SHOWN.

16. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE CITY OF IMPERIAL COMMUNITY DEVELOPMENT DEPARTMENT FOR ANY EXCAVATION OR CONSTRUCTION WITHIN CITY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 24 HOUR MINIMUM NOTICE IS REQUIRED, (760) 355-1151. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEY'RE CONTACT NUMBER 1-800-422-4133. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE CITY OF IMPERIAL PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE.

17. NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE CITY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE CITY OF IMPERIAL PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.

APPROVED DATE

18. ALL WORK AND MATERIAL SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE CITY OF IMPERIAL COMMUNITY DEVELOPMENT/PUBLIC SERVICES DEPARTMENT 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 THE CITY OF IMPERIAL: WHERE, OR IF. CONFLICTS OCCUR. THEN THE CITY OF IMPERIAL REQUIREMENTS

19. 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 JULY 1999". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.

20. 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.

21. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY, CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812.

22. CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNER/DEVELOPERS ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD, PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PLAN FOR THE SITE.

23. AS DETERMINED BY THE CITY OF IMPERIAL COMMUNITY DEVELOPMENT AND/OR PUBLIC WORKS DEPARTMENT DIRECTOR/ROAD COMIMISIONER, THE DEVELOPER IS RESPONSIBLE, FOR A MINIMUM, FOR ROAD IMPROVEMENTS TO CENTERLINE, AND MAY BE REQUIRED TO RECONSTRUCT EXISTING PAVEMENT. INCLUDING BASE, AND MATCHING OVERLAY REQUIRED TO MEET THE STRUCTURAL STANDARDS FOR THE CURRENT ASSIGNED TRAFFIC INDEX.

24. 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 THEN FUNCTIONAL AND ACCEPTABLE AS DIRECTED BY THE CITY OF IMPERIAL COMMUNITY DEVELOPMENT

25. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT WORK AREA TRAFFIC CONTROL HANDBOOK OR AS DIRECTED BY THE CITY IF IMPERIAL COMMUNITY DEVELOPMENT DEPARTMENT TRAFFIC

26. ANY EXISTING SURVEY MONUMENTS OR CITY 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 CITY SURVEYOR/COMMUNITY DEVELOPMENT DEPARTMENT DIRECTOR.

27. DUST CONTROL PLAN: PRIOR TO ANY GRADING OPERATIONS A DUST CONTROL PLAN SHALL BE PREPARED AND SUBMITTED FOR APPROVAL TO THE IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (ICAPCD), A COPY OF THE DUST CONTROL PLAN TO BE SUBMITTED TO THE CITY OF IMPERIAL COMMUNITY

28. AS-BUILT DRAWINGS: ALL WORK AND MATERIAL PROVIDED FOR THIS PROJECT SHALL CONFORM WITH THESE AND ALL REFERENCED PLANS. IN THE EVENT OF DEVIATIONS ARE REQUIRED AND HAVE BEEN APPROVED BY THE CITY OR ASSOCIATED UTILITY, SAID DEVIATIONS SHALL BE RECORDED ON AN AS-BUILT PLAN AND PROVIDED TO THE ENGINEER-OF-WORK FOR HIS PREPARATION OF AS-BUILT DRAWINGS. SAID DRAWINGS SHALL BE SUBMITTED TO THE CITY OF IMPERIAL COMMUNITY DEVELOPMENT DEPARTMENT NO LATER THAN 45 CALENDAR DAYS AFTER THE COMPLETION OF ALL CONTRACT WORK.

29. THE NOTES LISTED ABOVE ARE MINIMUM LIST. THIS DOES NOT RELIEVE THE ENGINEER AND CONTRACTOR FROM COMPILING ADDITIONAL NOTES THAT MAY BE REQUIRED FOR THE PROJECT.

#### TRAFFIC CONTROL PLANS

IT IS RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT THE TRAFFIC CONTROL PLAN FOR THIS PROJECT AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION.

#### WATER POLLUTION CONTROL PLAN

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL A WATER POLLUTION CONTROL PLAN

## LEGEND: --- RIGHT OF WAY LINE ---- GAS ---- GAS LINE - OHE ----- EXIST ELECTRIC OVERHEAD LINE — т — т — т — EXIST TELEPHONE LINE EXIST SPOT ELEVATION $\neg \lor \neg \neg \lor \neg \lor \neg$ EXIST SLOPE

#### AGENCY TELEPHONE NUMBERS

UTILITIES COORDINATION

NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING. EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT OR TELEPHONE THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED AND, IF REQUIRED BY THE AGENCY, AN INSPECTOR MAY BE PRESENT.

CITY OF IMPERIAL 760-355-4321 760-337-3358 SOUTHERN CALIFORNIA GAS CO. 760-370-5812

IMPERIAL IRRIGATION DISTRICT (POWER) 760-482-3406 IMPERIAL IRRIGATION DISTRICT (WATER) 760-339-9507

760-335-4818

EXISTING UNDERGROUND UTILITIES.

CITY OF IMPERIAL WEB SITE

ONLY THOSE EXISTING FACILITIES KNOWN TO THE ENGINEER OF THE WORK ARE SHOWN OR INDICATED ON THE DRAWINGS. THE LOCATION OF SUCH FACILITIES SHALL BE CONSIDERED APPROXIMATE BEFORE COMMENCING WORK, EACH CONTRACTOR SHALL DETERMINE WHETHER OR NOT, SAME WILL INTERFÉRE

#### ABBREVIATIONS

CENTER LINE FL FLOW LINE FS FINISHED SURFACE INVERT ELEVATION INV RIM RIM ELEVATION SS SEWER LINE SD STORM DRAIN LINE ST. LT. STREET LIGHT TOP OF CURB TOP OF MANHOLE ELEVATION TOP OF PAVEMENT WATER LINE

WWW.CITYOFIMPERIAL.ORG

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VICINITY MAP

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- 3. ROADWAY SURFACE IMPROVEMENTS (7TH STREET)
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- 5. ROADWAY SURFACE IMPROVEMENTS (10TH STREET) 6. ROADWAY SURFACE IMPROVEMENTS (14TH STREET)
- 7. ROADWAY SURFACE IMPROVEMENTS (14TH STREET)
- 8. ROADWAY SURFACE IMPROVEMENTS (14TH STREET)
- 9. STORM DRAIN SYSTEM (7TH STREET)
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Know what's below.

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2 WORKING DAYS BEFORE YOU DIG

COMMUNITY DEVELOPMENT DEPARTMENT

7TH, 10TH & 14TH STREETS REHABILITATION PROJECT

TITLE SHEET

SHEET

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.

REVISIONS:

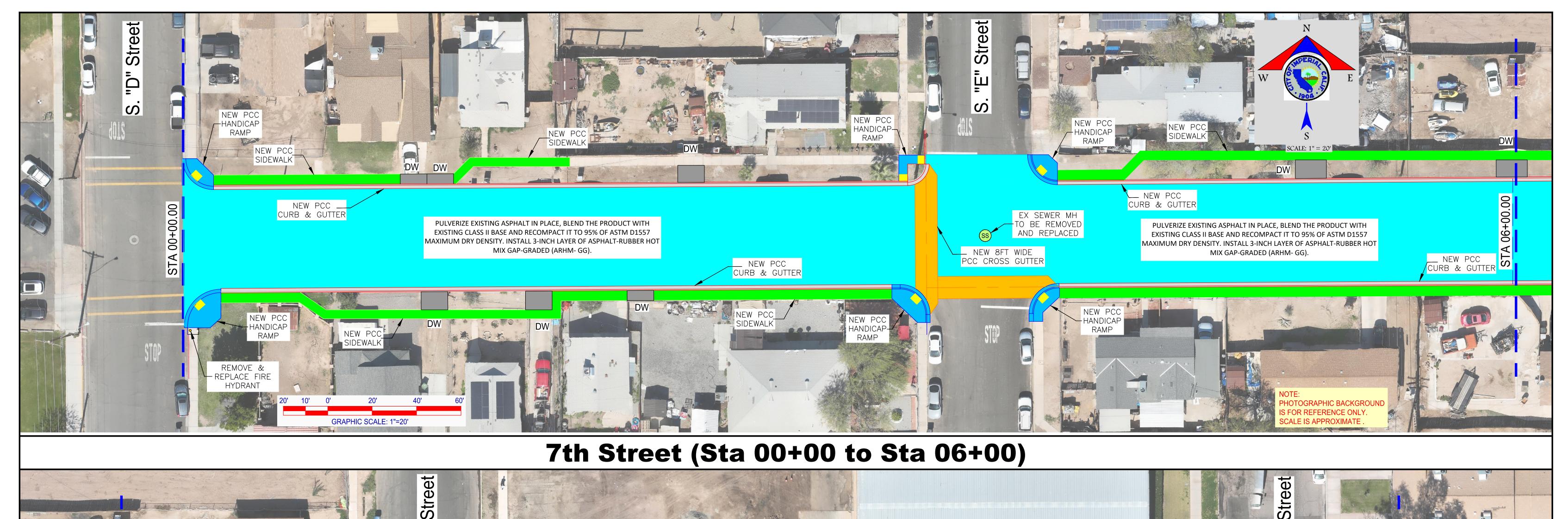


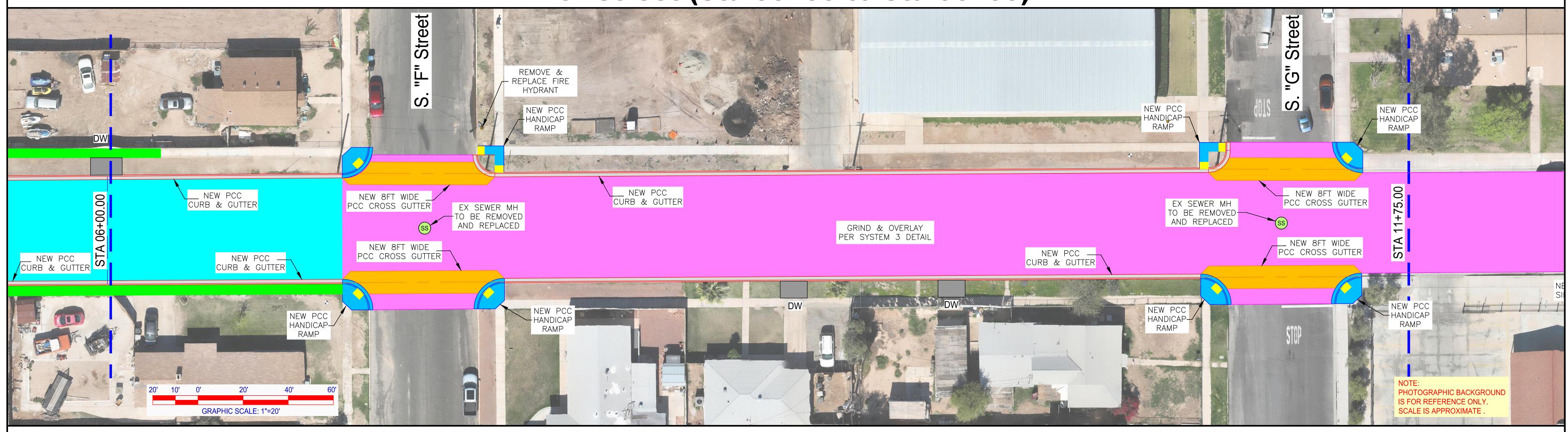
#### CITY OF IMPERIAL

420 South Imperial Avenue Imperial, CA 92251 Ph: (760) 355-3840 • Fax: (760)355-4718

DATE: 2024-04-03

BID NO. 2024-01





# 7th Street (Sta 06+00 to Sta 11+75)

NO. REVISIONS:

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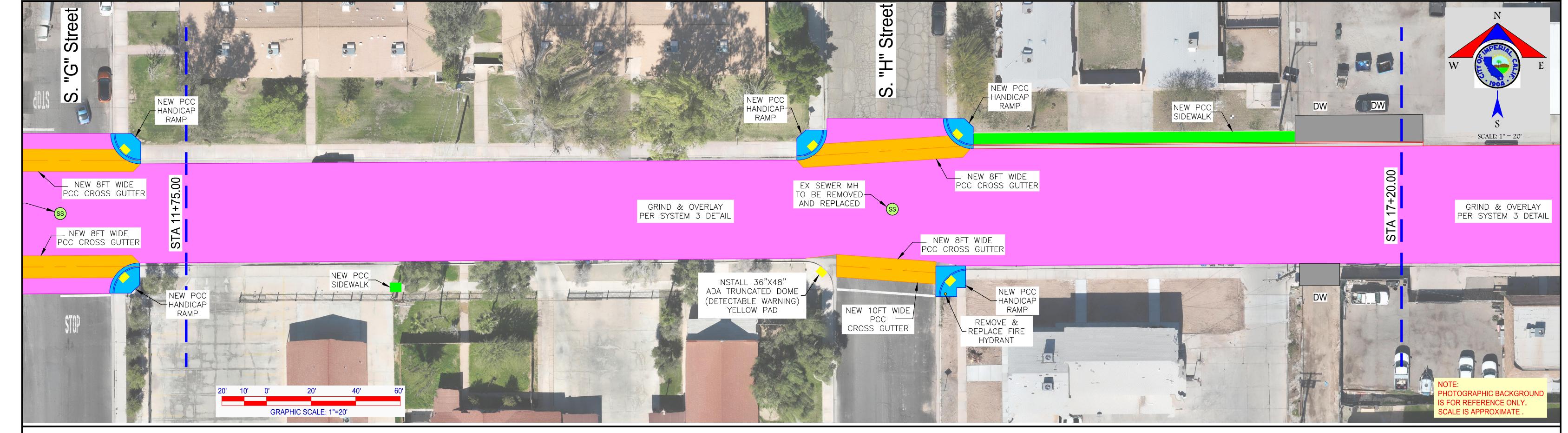
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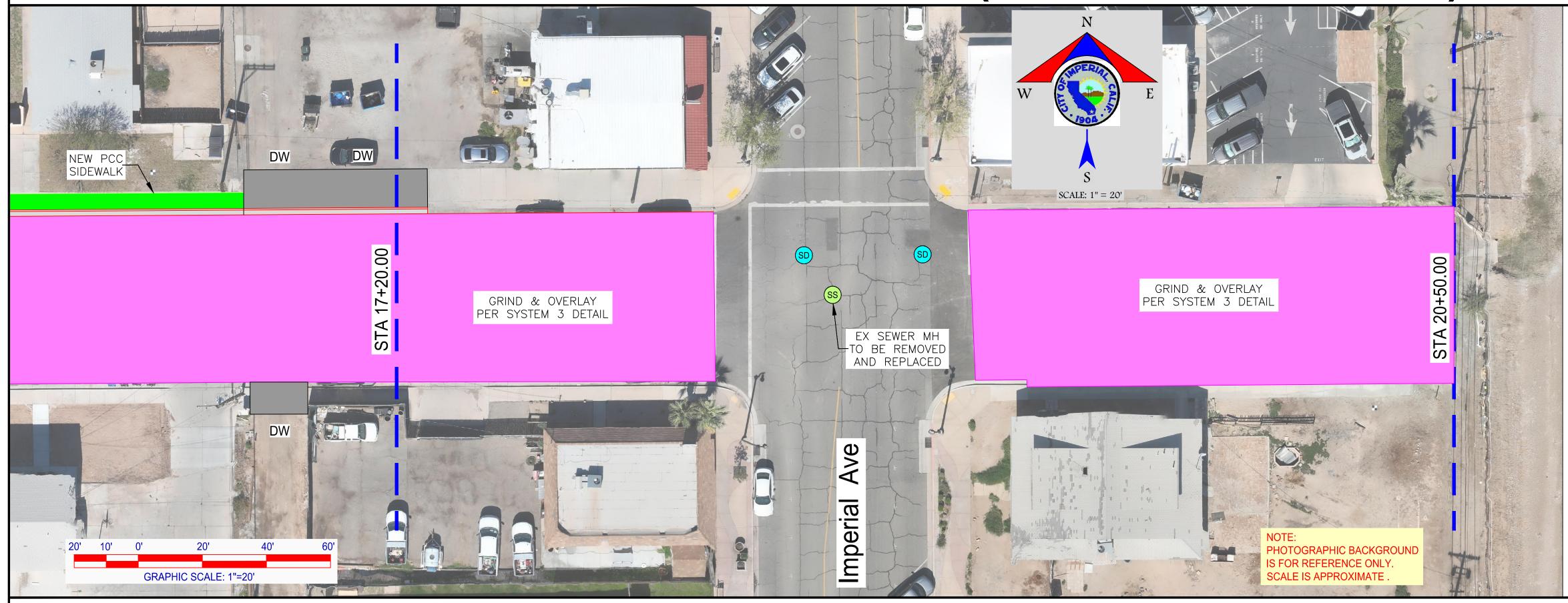
7TH STREET - ROADWAY SURFACE IMPROVEMENTS BETWEEN SOUTH "D" STREET & OLD SR-86

DATE: 2024-04-03

OF **28** SHEETS



# 7th Street (Sta 11+75 to Sta 17+20)



# 7th Street (Sta 17+20 to Sta 20+50)

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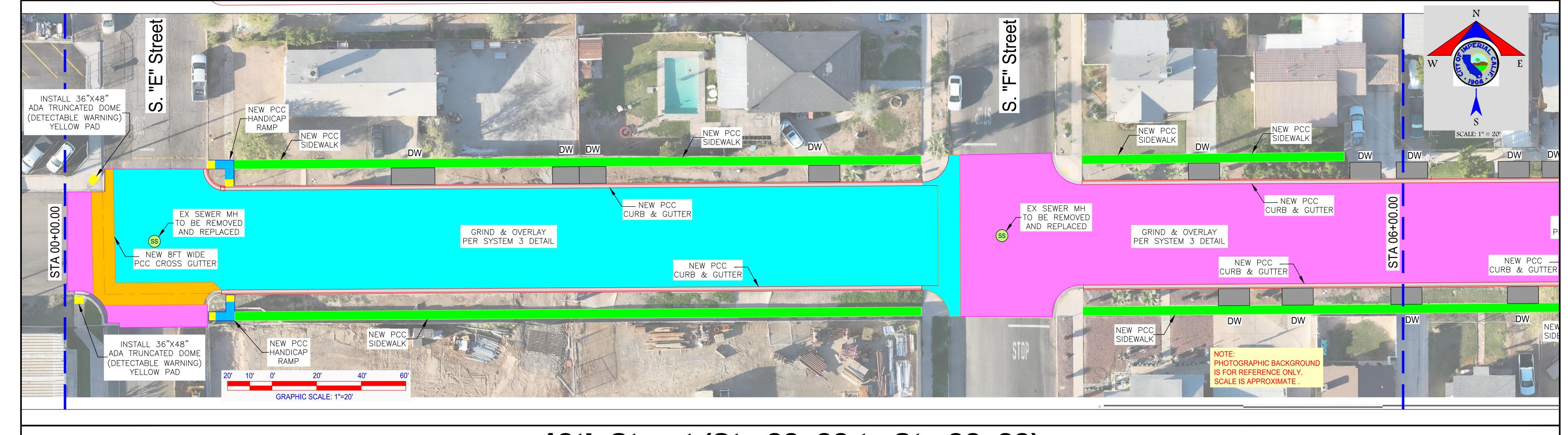
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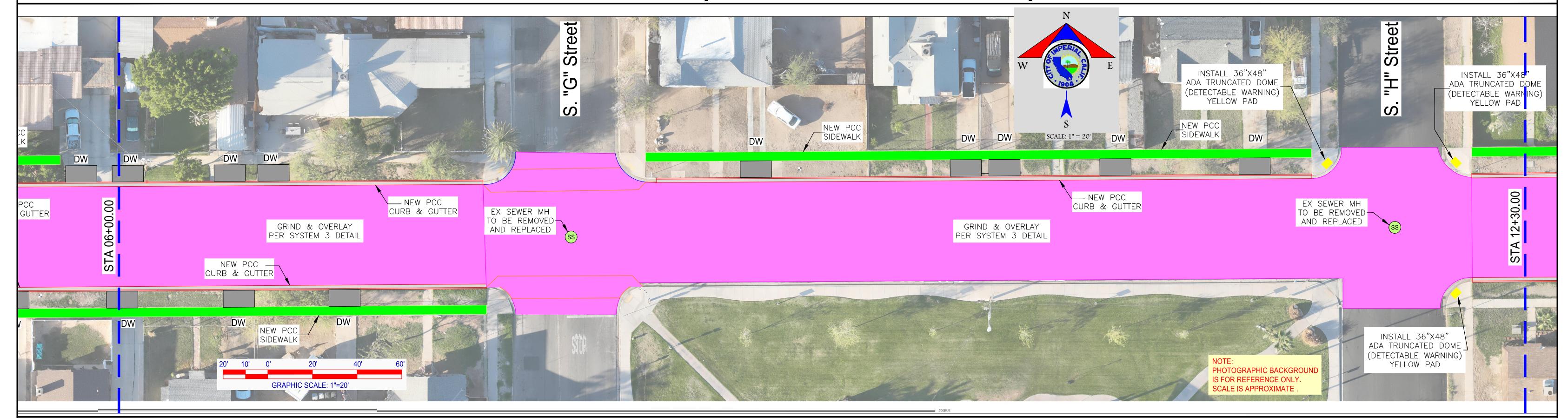
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7TH STREET - ROADWAY SURFACE IMPROVEMENTS BETWEEN SOUTH "D" STREET & OLD SR-86

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## 10th Street (Sta 06+00 to Sta 12+30)

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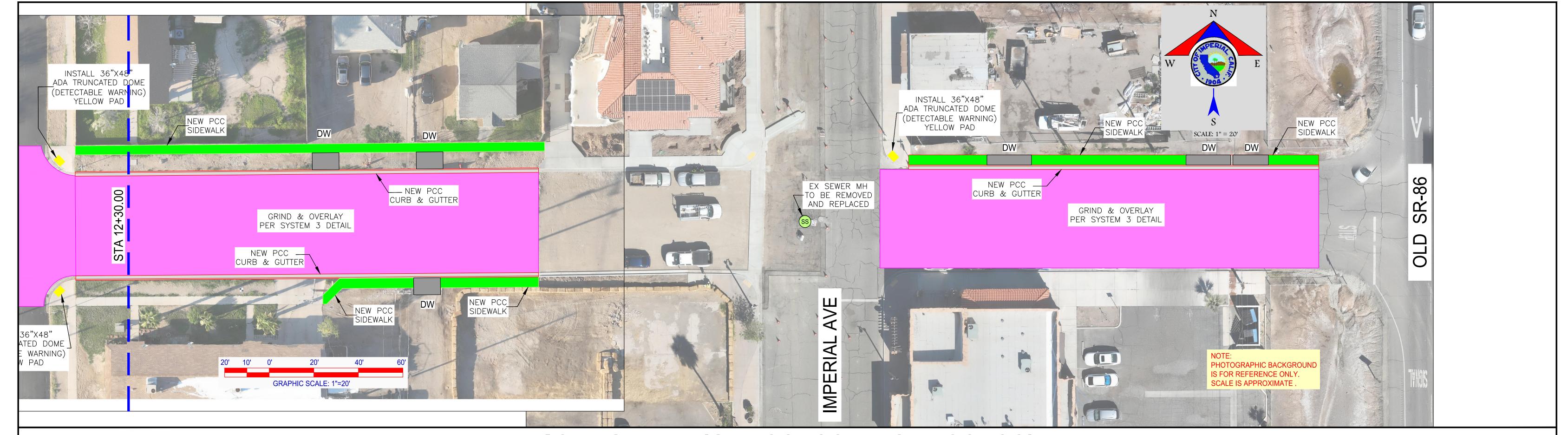
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10TH STREET - ROADWAY SURFACE IMPROVEMENTS BETWEEN SOUTH "E" STREET & OLD SR-86

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OF 28 SHEETS



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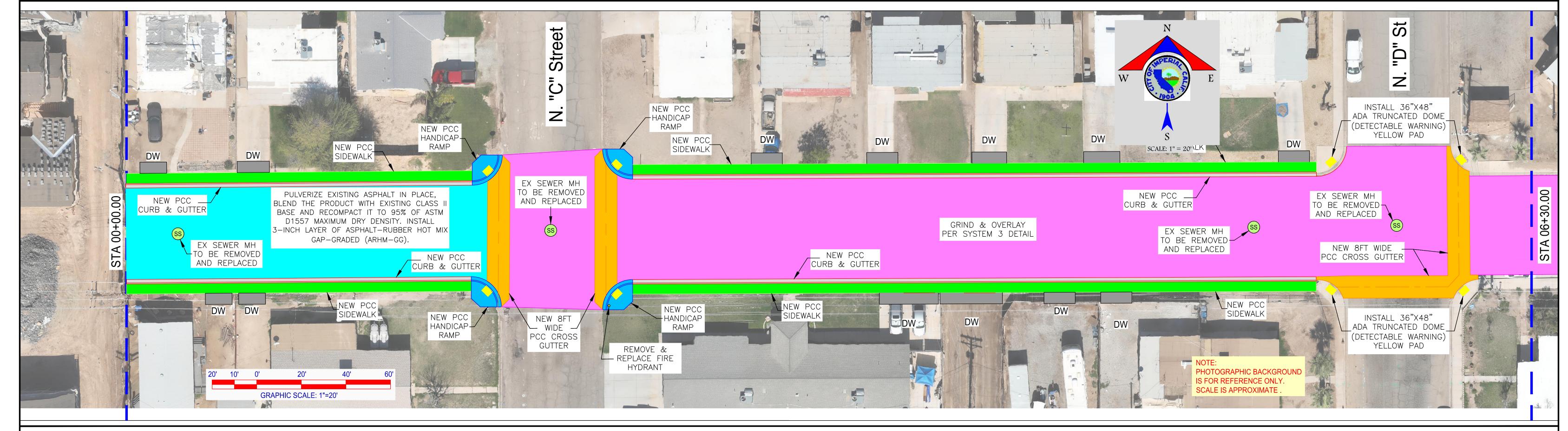
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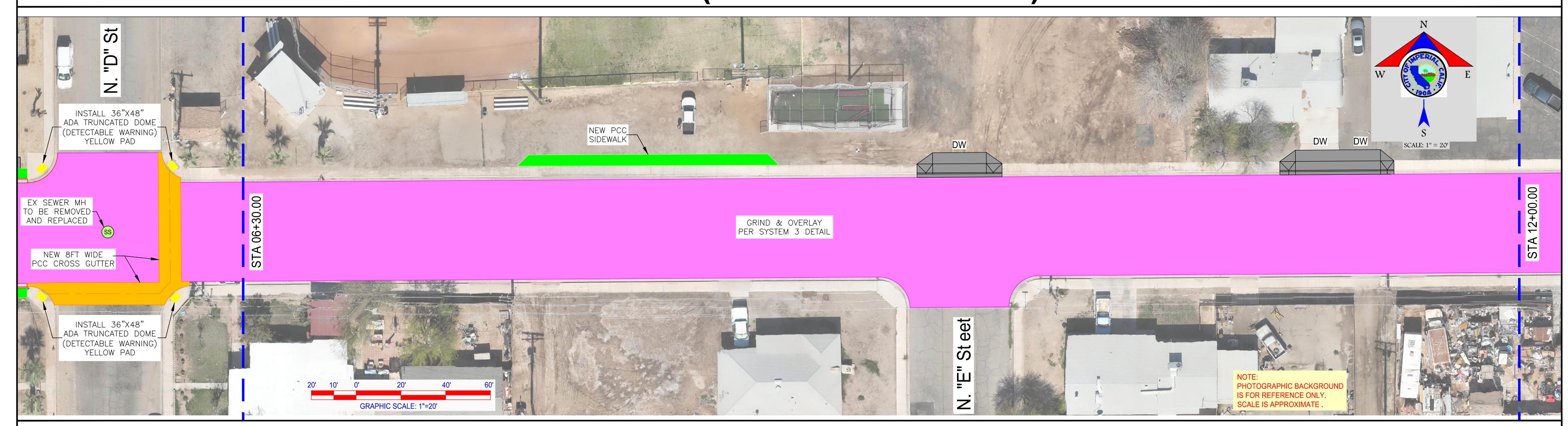
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10TH STREET - ROADWAY SURFACE IMPROVEMENTS BETWEEN SOUTH "E" STREET & OLD SR-86

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OF 28 SHEET





## 14th Street (Sta 06+30 to Sta 12+00)

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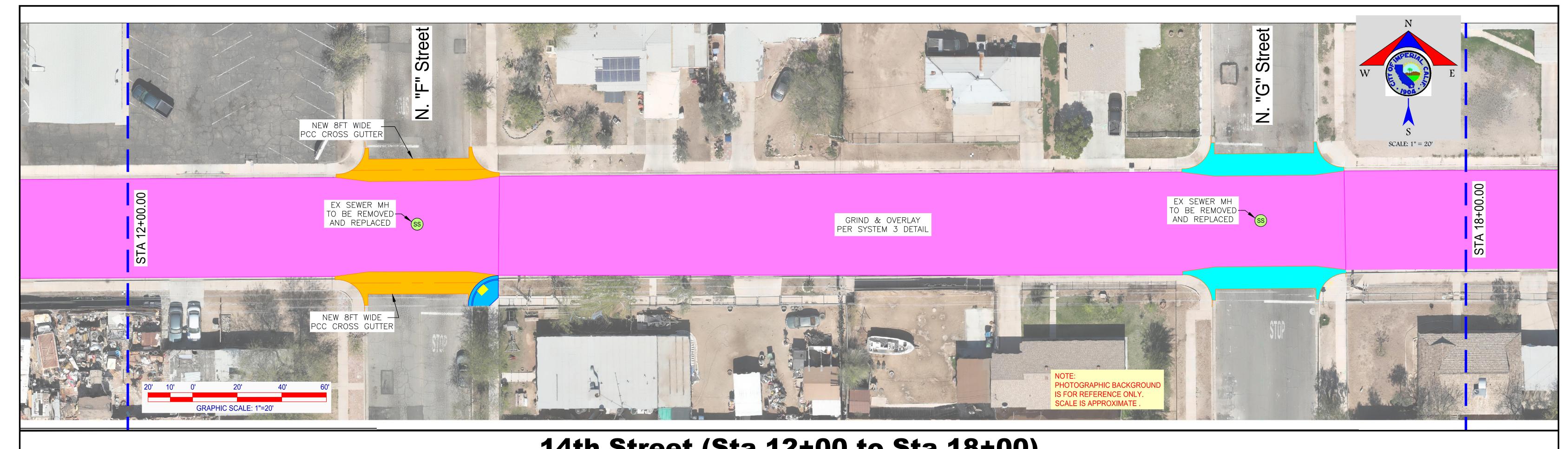
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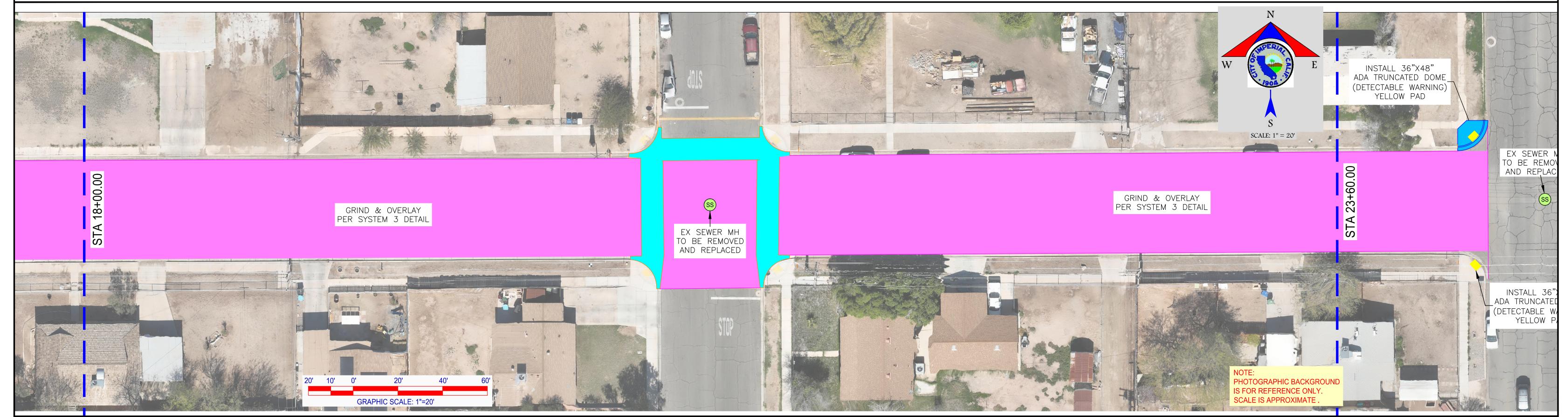
#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

14TH STREET - ROADWAY SURFACE IMPROVEMENTS FROM 170' WEST OF N. "C" STREET TO OLD SR-86

DATE: 2024-04-03



# 14th Street (Sta 12+00 to Sta 18+00)



# 14th Street (Sta 18+00 to Sta 23+60)

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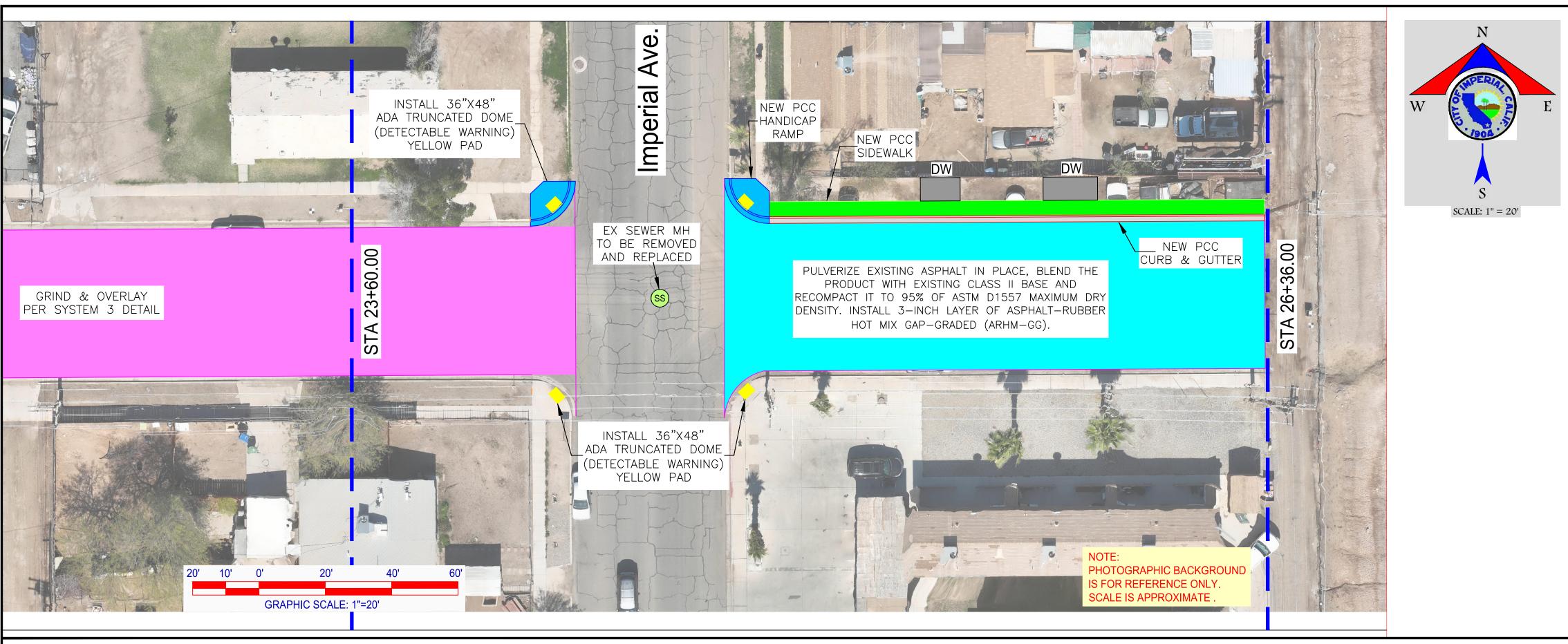
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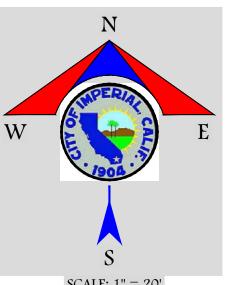
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14TH STREET - ROADWAY SURFACE IMPROVEMENTS FROM 170' WEST OF N. "C" STREET TO OLD SR-86

DATE: 2024-04-03





# 14th Street (Sta 23+60 to Sta 26+36)

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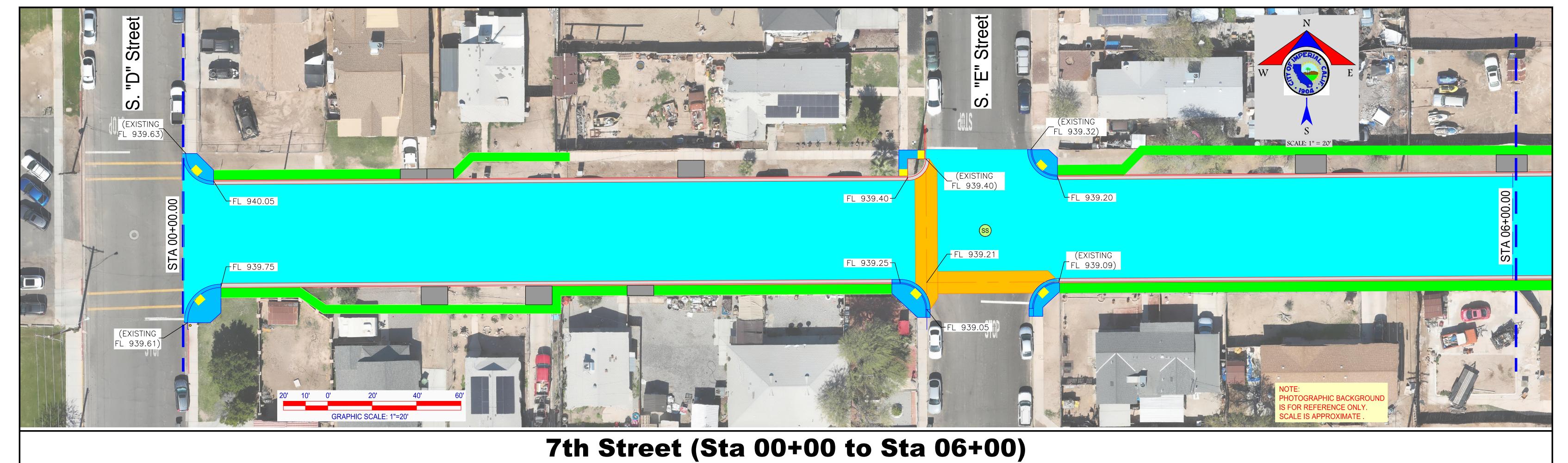
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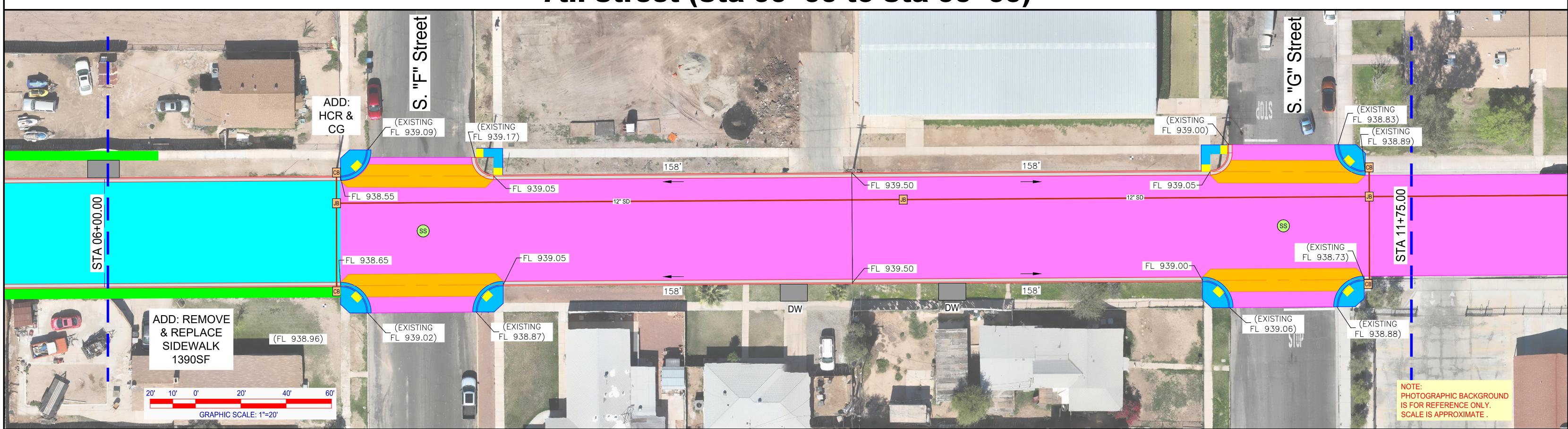
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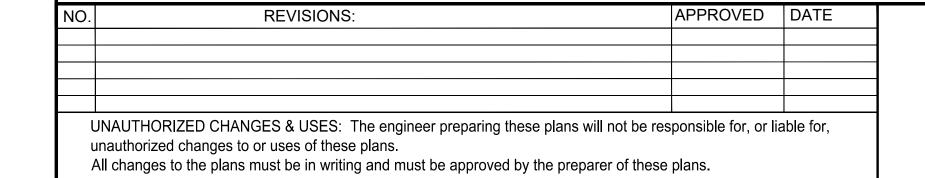
14TH STREET - ROADWAY SURFACE IMPROVEMENTS FROM 170' WEST OF N. "C" STREET TO OLD SR-86 DATE: 2024-04-03

SHEET





# 7th Street (Sta 06+00 to Sta 11+75)





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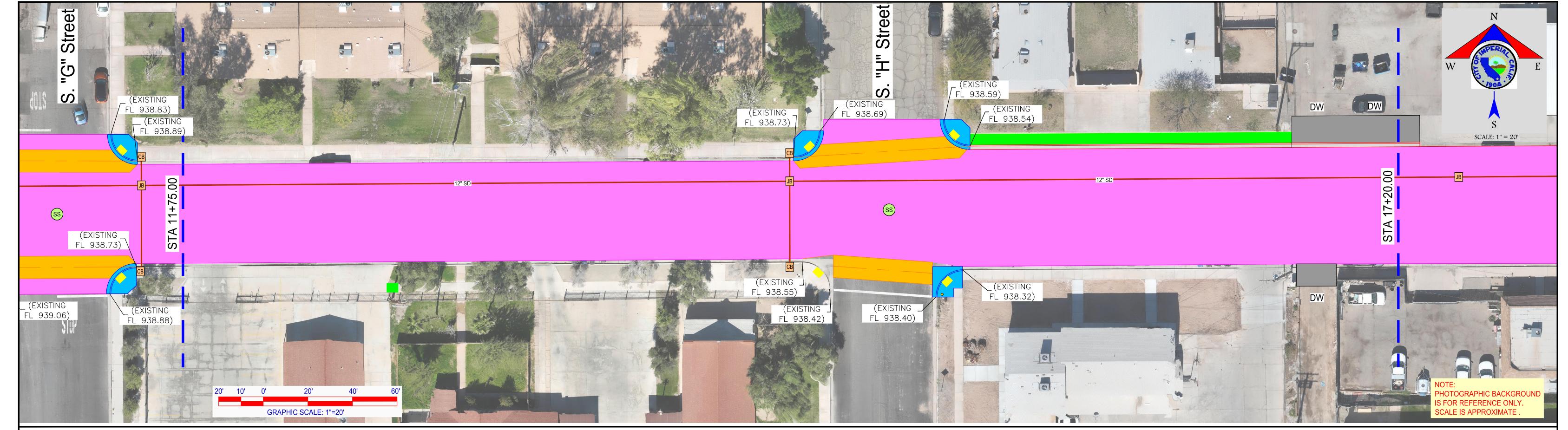
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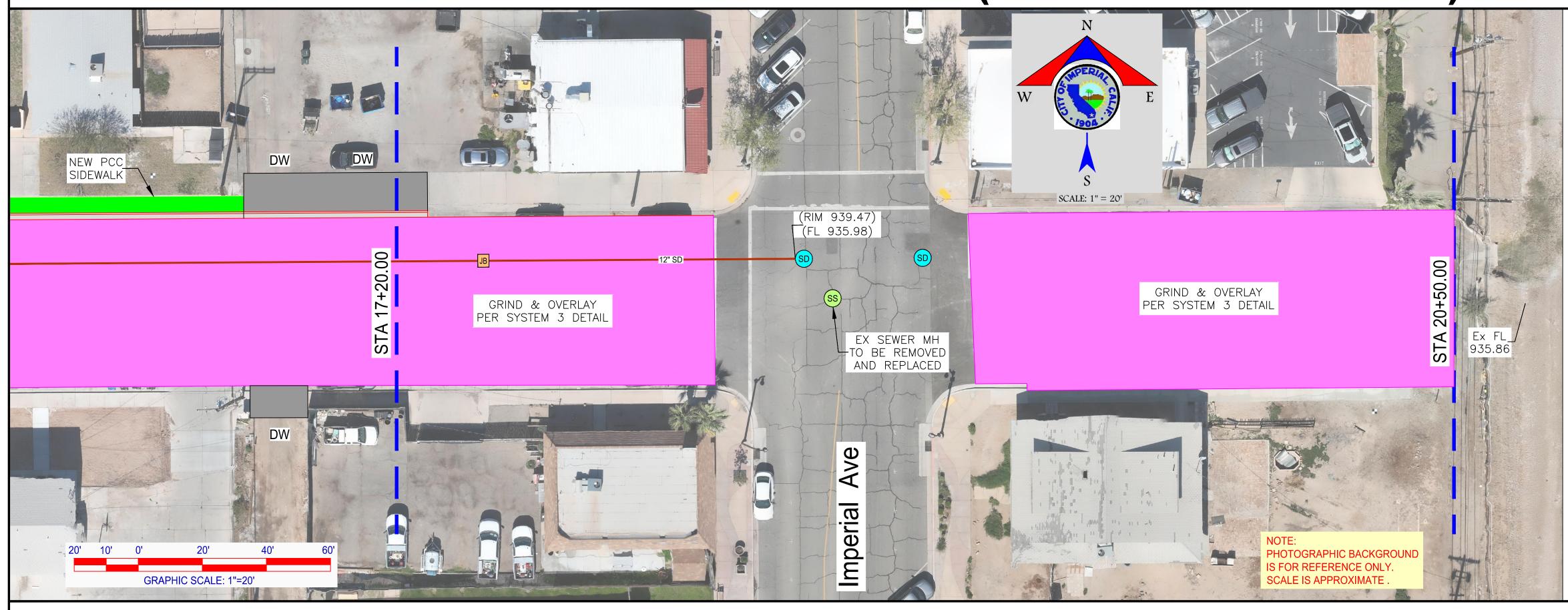
7TH STREET - STORM DRAIN SYSTEM BETWEEN SOUTH "D" STREET & OLD SR-86

DATE: 2024-04-03

OF **28** SHEET



# 7th Street (Sta 11+75 to Sta 17+20)



# 7th Street (Sta 17+20 to Sta 20+50)

NO. REVISIONS:

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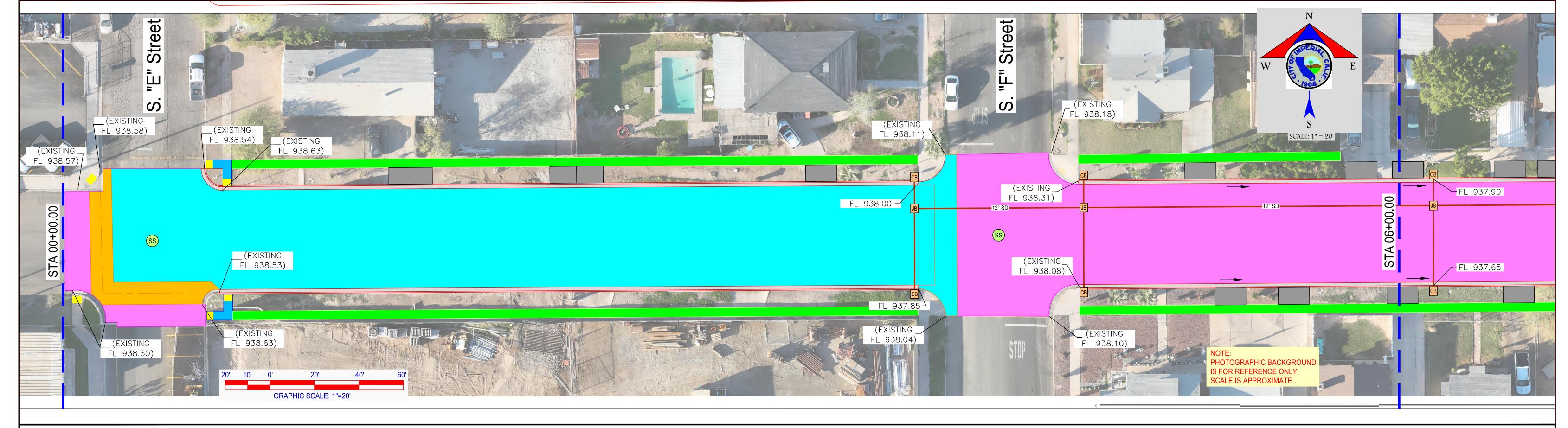
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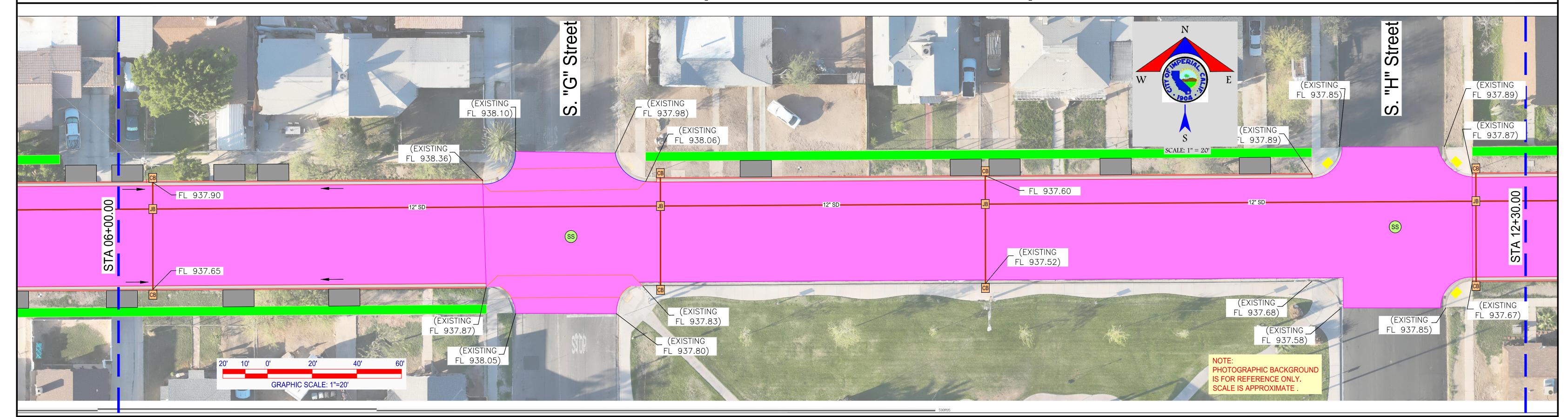
7TH STREET - STORM DRAIN SYSTEM BETWEEN SOUTH "D" STREET & OLD SR-86

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OF 28 SHEE





## 10th Street (Sta 06+00 to Sta 12+30)

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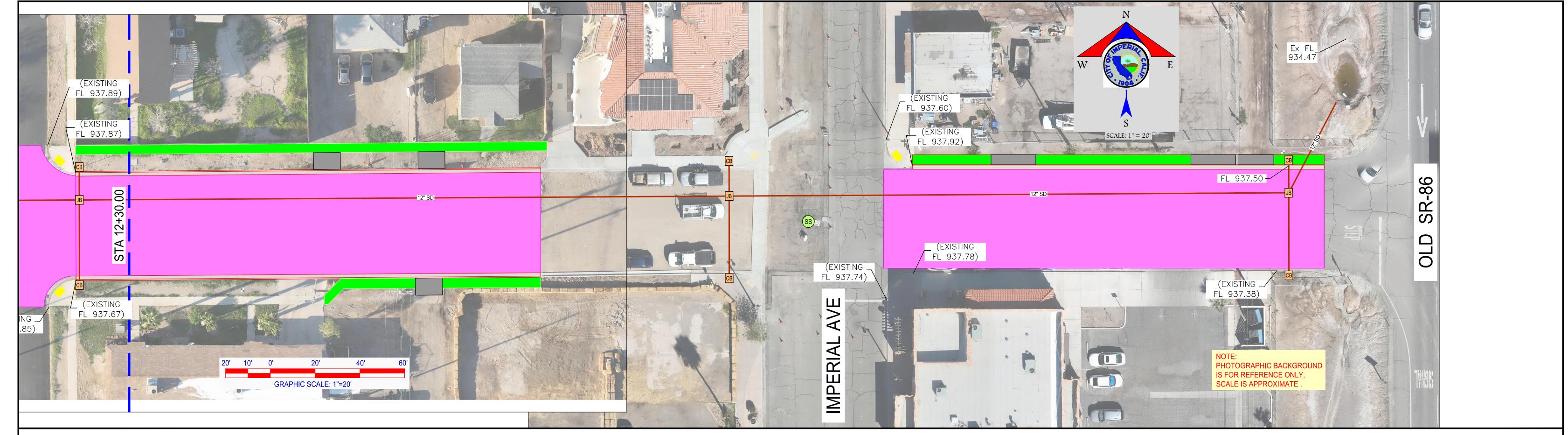
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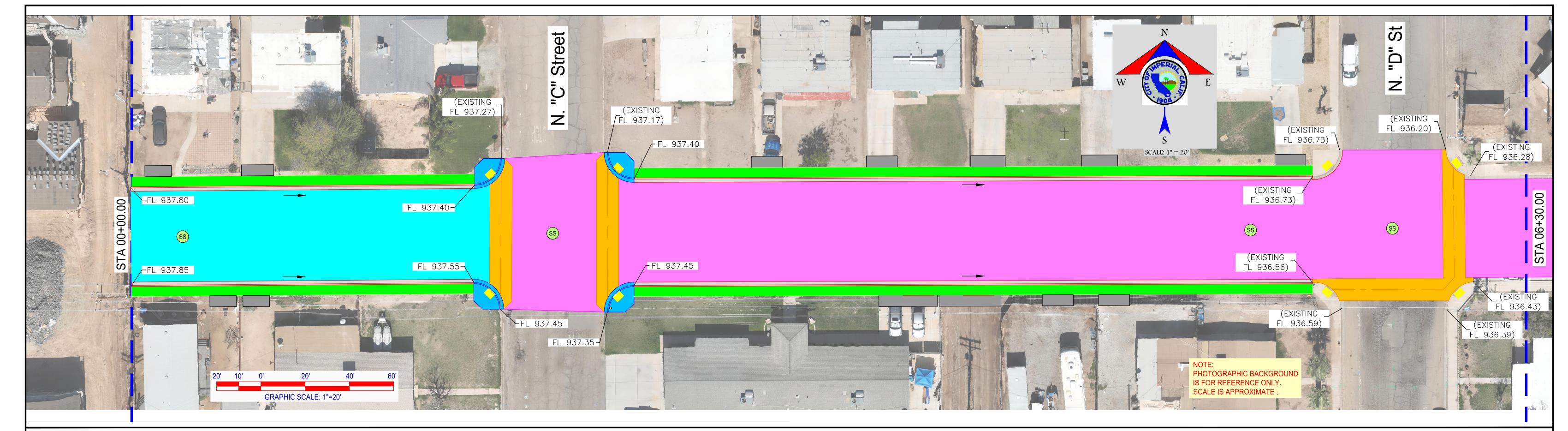
COMMUNITY	<b>DEVELOPMENT</b>	DEPARTMENT

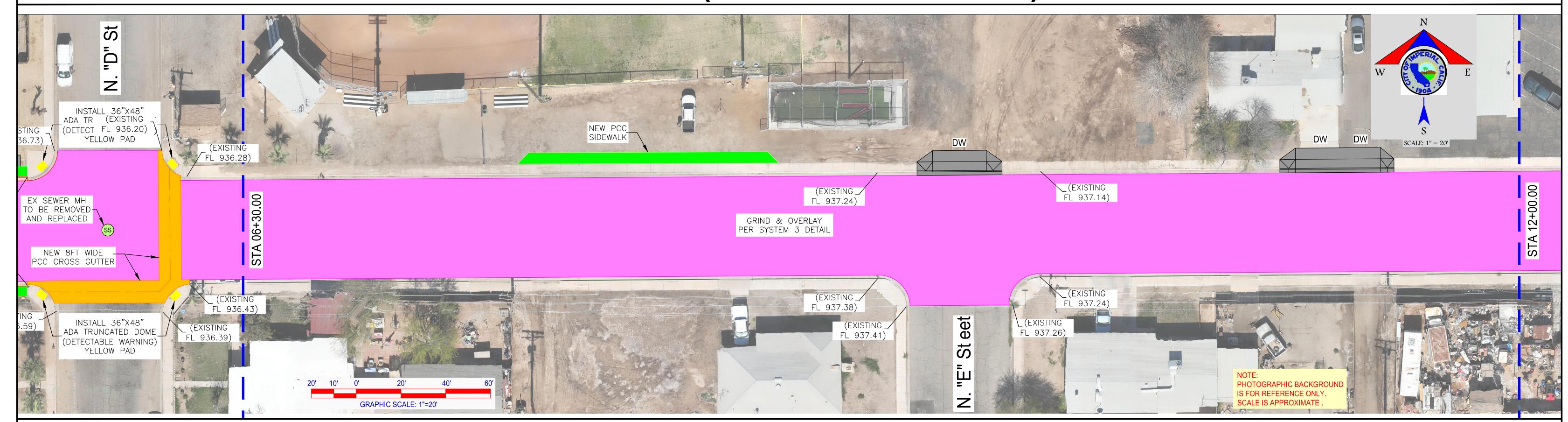
#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

10TH STREET - STORM DRAIN SYSTEM BETWEEN SOUTH "E" STREET & OLD SR-86

DATE: 2024-04-03

SHEET





# 14th Street (Sta 06+30 to Sta 12+00)

**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.



## CITY OF IMPERIAL

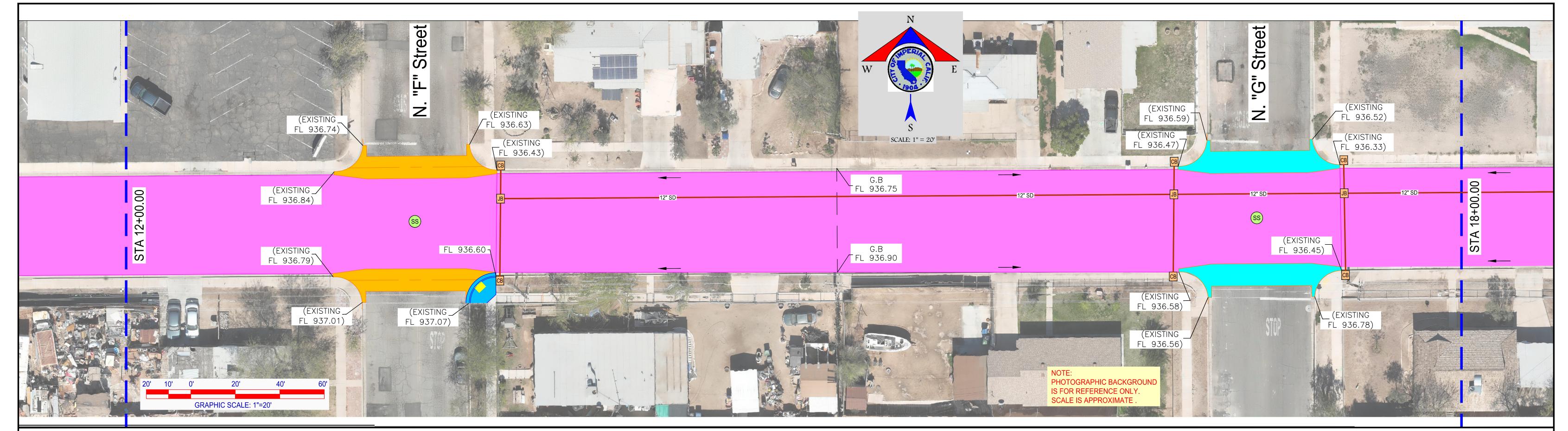
420 South Imperial Avenue Imperial, CA 92251 Ph: (760) 355-3840 • Fax: (760)355-4718 COMMUNITY DEVELOPMENT DEPARTMENT

#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

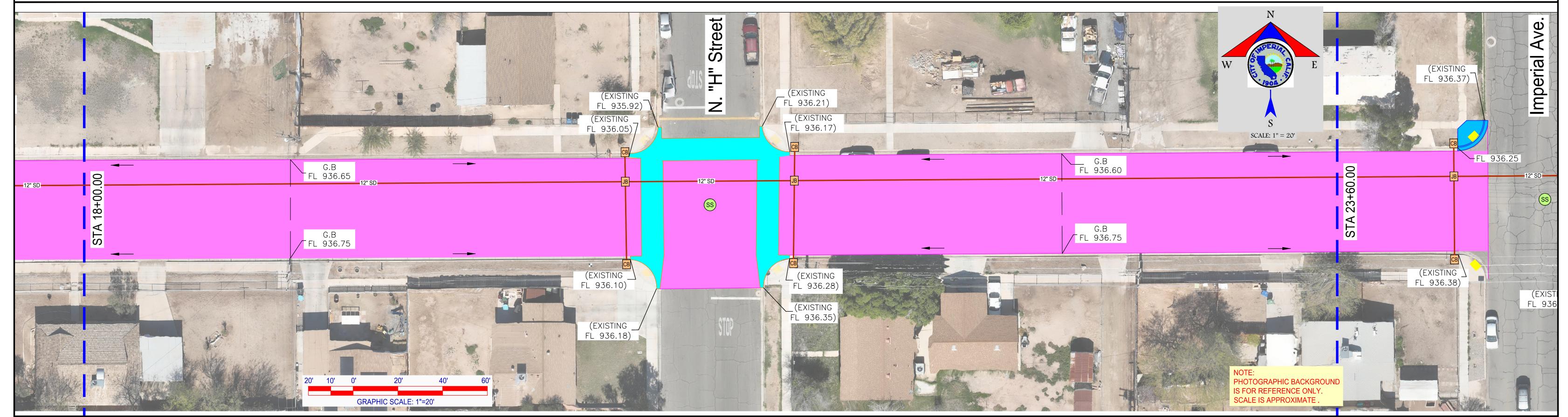
14TH STREET - STORM DRAIN SYSTEM FROM 170' WEST OF N. "C" STREET TO OLD SR-86

DATE: 2024-04-03

SHEET



# 14th Street (Sta 12+00 to Sta 18+00)



# 14th Street (Sta 18+00 to Sta 23+60)

NO. REVISIONS:

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#### COMMUNITY DEVELOPMENT DEPARTMENT

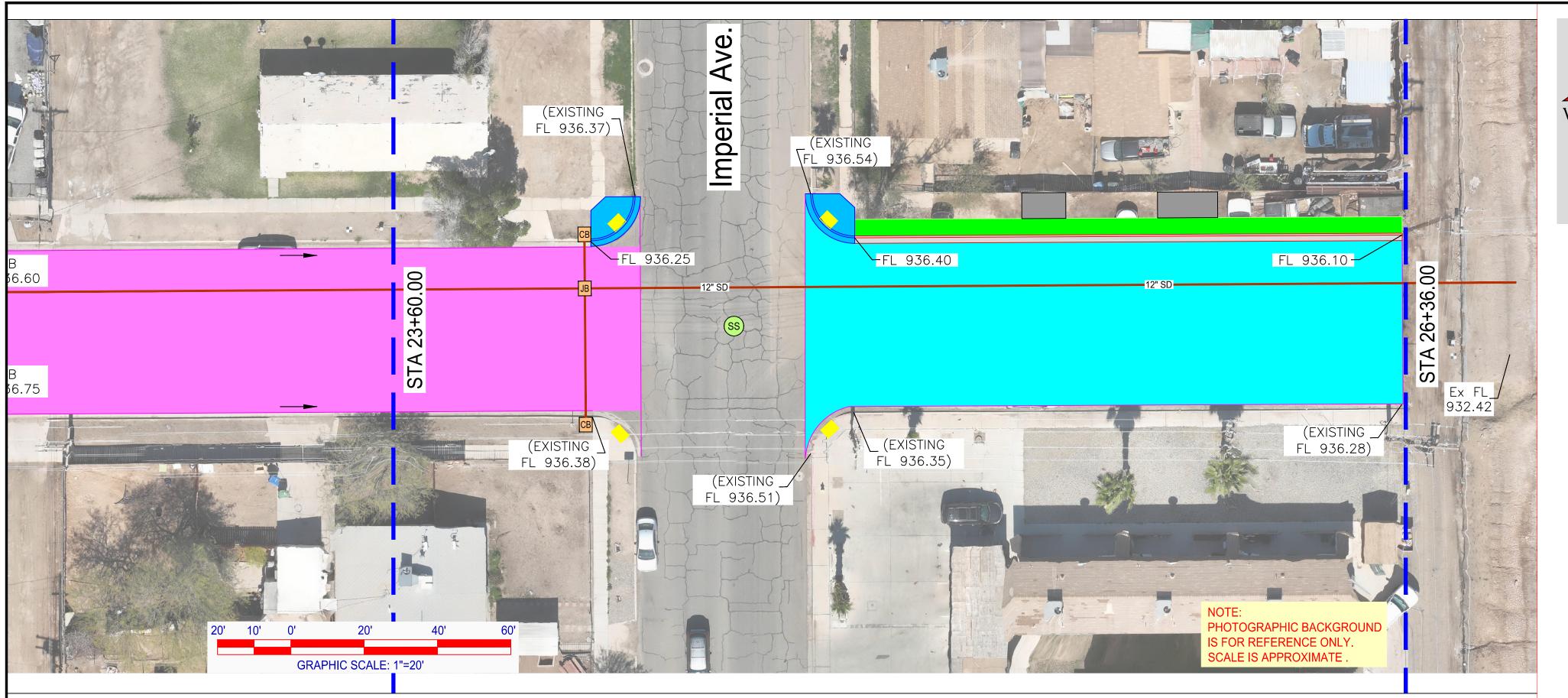
#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

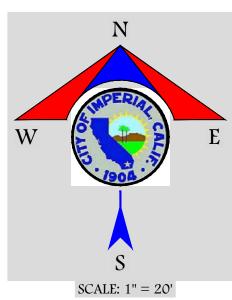
14TH STREET - STORM DRAIN SYSTEM FROM 170' WEST OF N. "C" STREET TO OLD SR-86

DATE: 2024-04-03

OF **28** SHEI

SHEET





14th Street (Sta 23+60 to Sta 26+36)

APPROVED DATE **REVISIONS:** 

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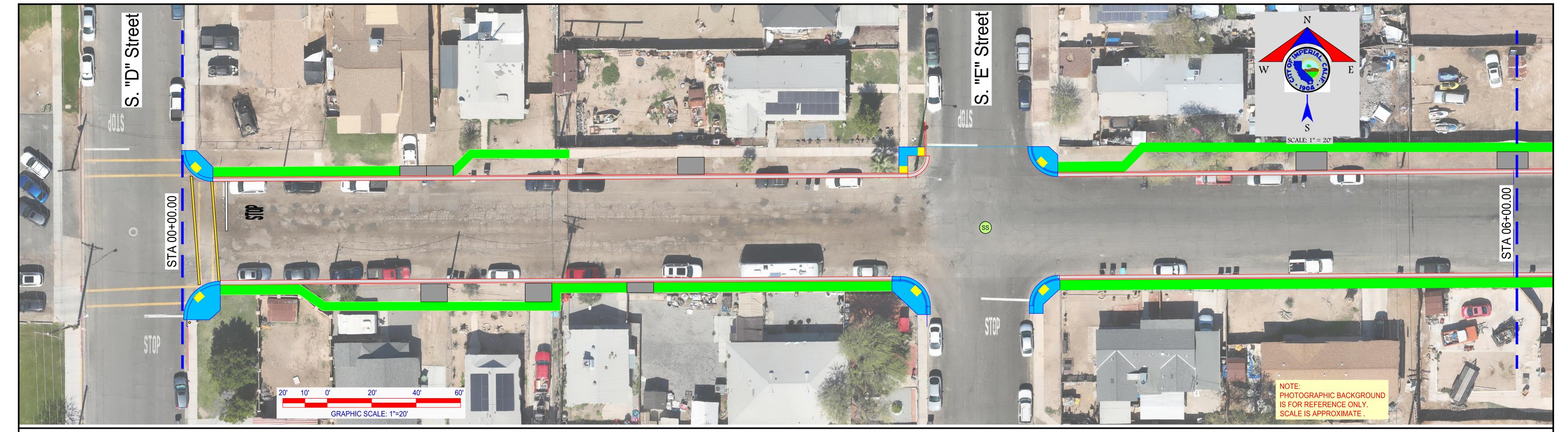


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7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

14TH STREET - STORM DRAIN SYSTEM FROM 170' WEST OF N. "C" STREET TO OLD SR-86 DATE: 2024-04-03





# 7th Street (Sta 06+00 to Sta 11+75)

NO.	REVISIONS:	APPROVED	DATE	
ι	UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for,			

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## CITY OF IMPERIAL

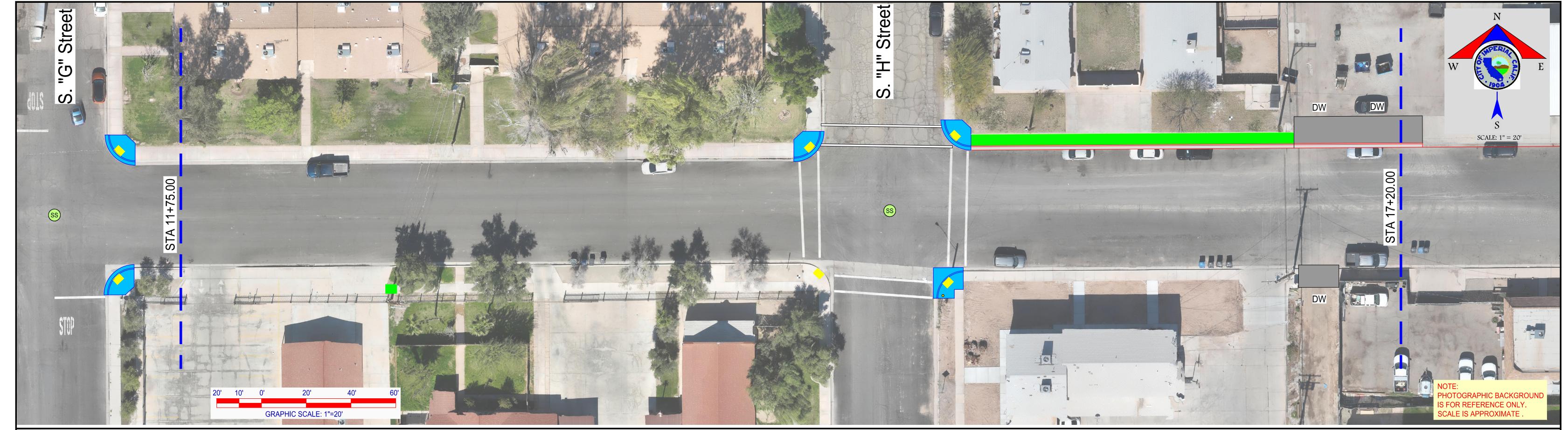
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#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

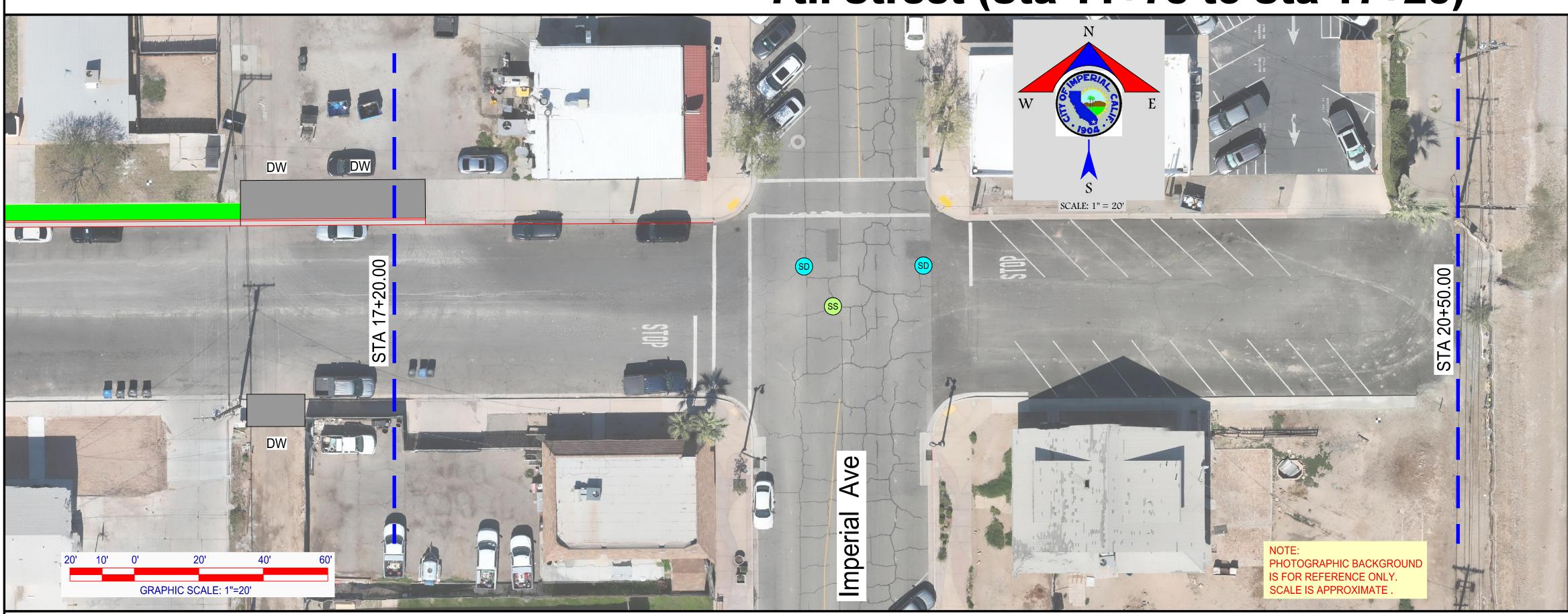
7TH STREET - STRIPING PLAN

DATE: 2024-04-03

BETWEEN SOUTH "D" STREET & OLD SR-86



# 7th Street (Sta 11+75 to Sta 17+20)



# 7th Street (Sta 17+20 to Sta 20+50)

NO. REVISIONS:

APPROVED DATE

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7TH STREET - STRIPING PLAN

BETWEEN SOUTH "D" STREET & OLD SR-86

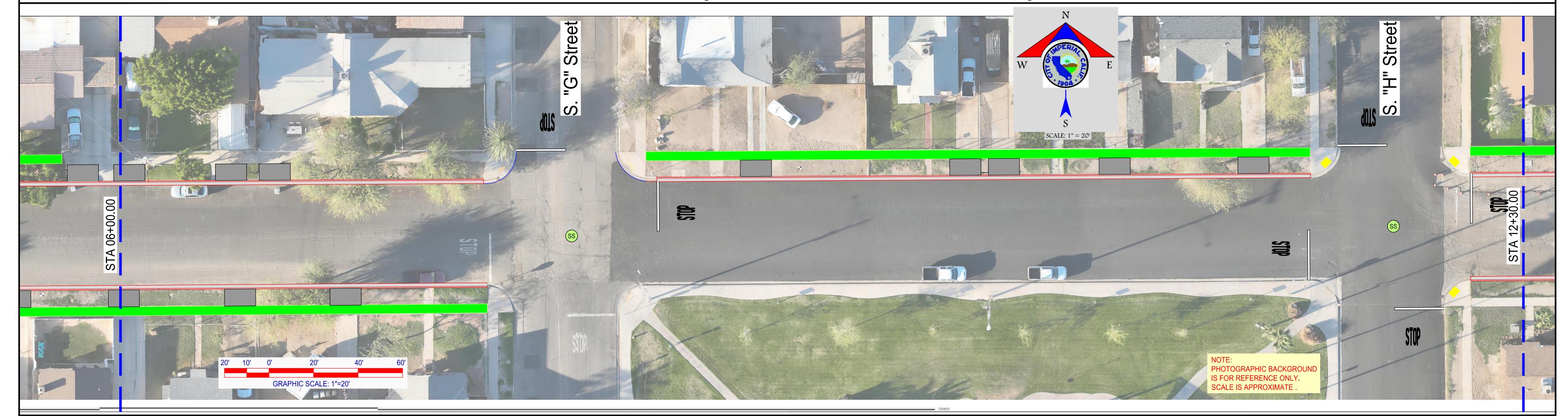
DATE: 2024-04-03

<u>17</u>

SHEET

OF **28** SHEET





# 10th Street (Sta 06+00 to Sta 12+30)

NO. REVISIONS:

APPROVED DATE

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#### COMMUNITY DEVELOPMENT DEPARTMENT

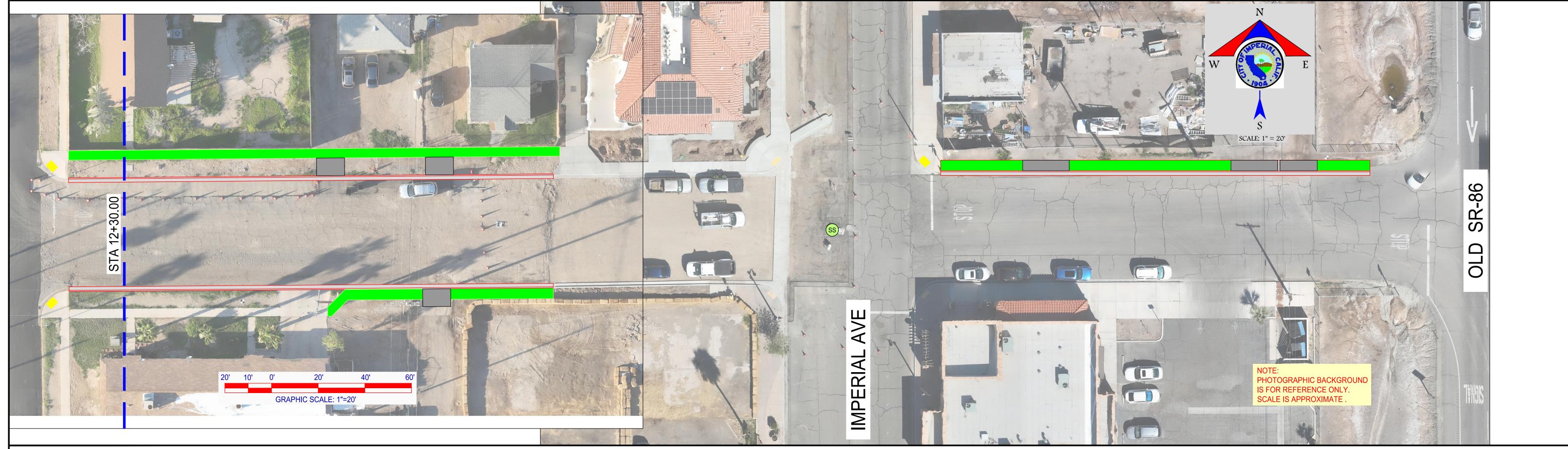
# 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

10TH STREET - STRIPING PLANS BETWEEN SOUTH "E" STREET & OLD SR-86

DATE: 2024-04-03

OF 28 SHEET

SHEET



# 10th Street (Sta 06+00 to Sta 12+30)

**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.

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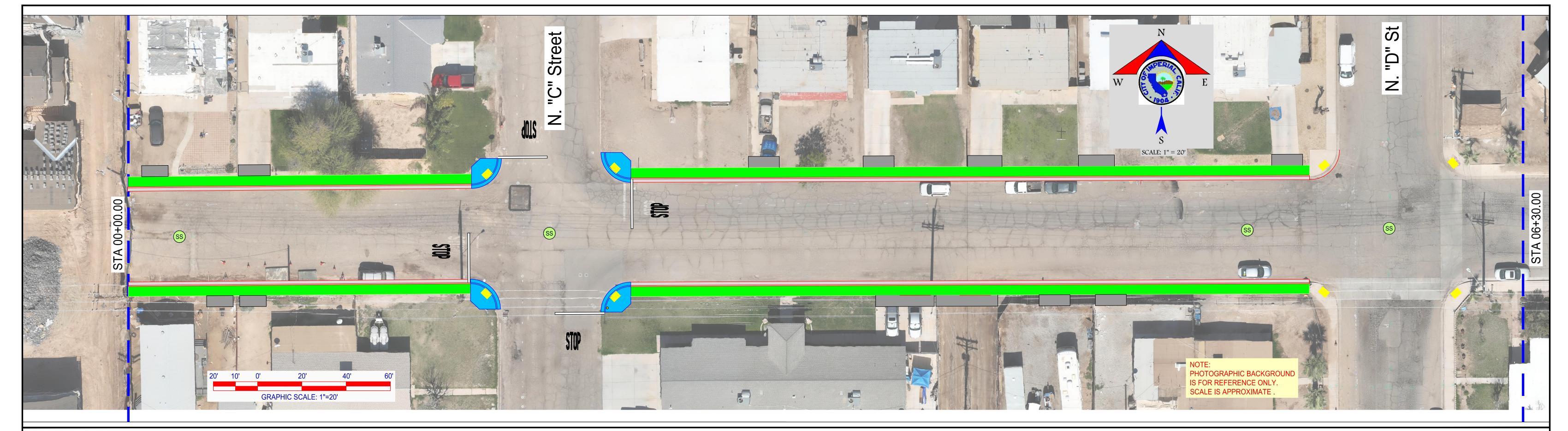
420 South Imperial Avenue Imperial, CA 92251 Ph: (760) 355-3840 • Fax: (760)355-4718

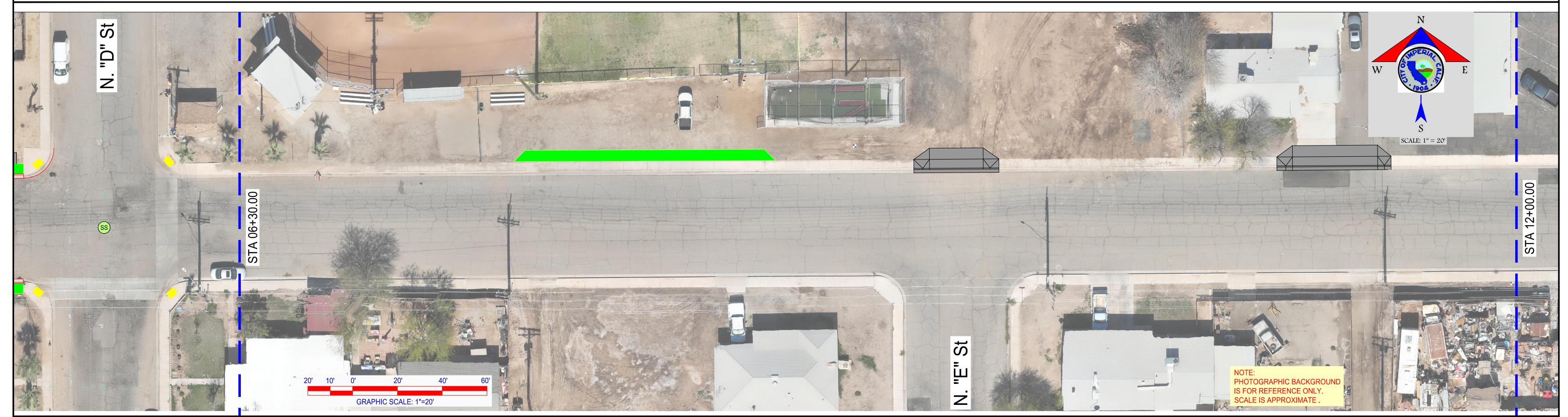
COMMUNIT	Y DEVELOPMEN	T DEPARTMENT

#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

10TH STREET - STRIPING PLAN BETWEEN SOUTH "E" STREET & OLD SR-86

DATE: 2024-04-03





# 14th Street (Sta 06+30 to Sta 12+00)

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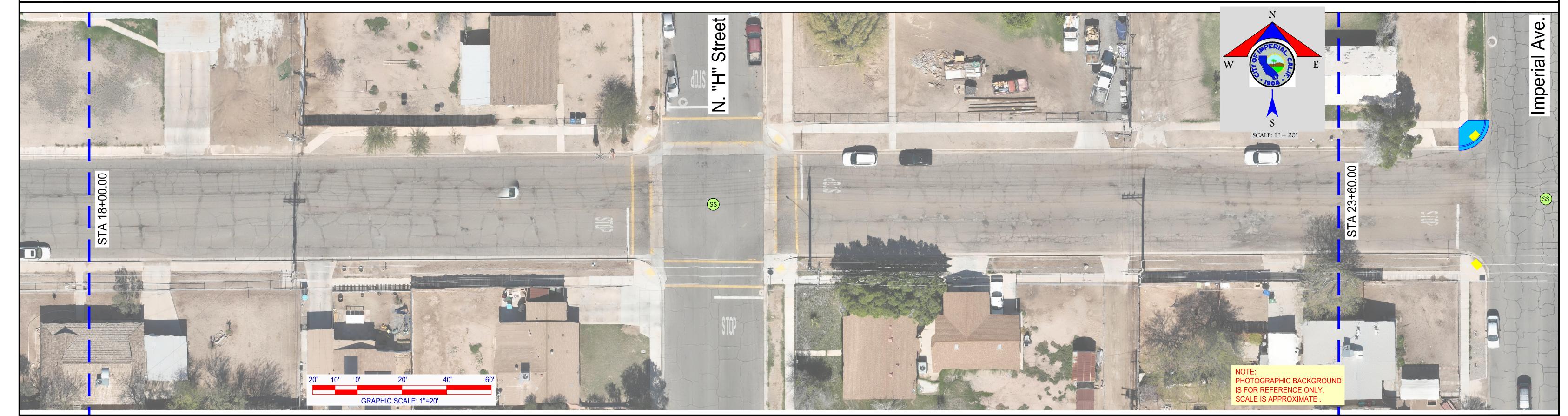
14TH STREET - STRIPING PLAN

FROM 170' WEST OF N. "C" STREET TO OLD SR-86

SHEET



# 14th Street (Sta 12+00 to Sta 18+00)



# 14th Street (Sta 18+00 to Sta 23+60)

NO.	REVISIONS:	APPROVED	DATE
(	UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be resunauthorized changes to or uses of these plans.	•	able for,
	All changes to the plans must be in writing and must be approved by the preparer of these	plans.	



## CITY OF IMPERIAL

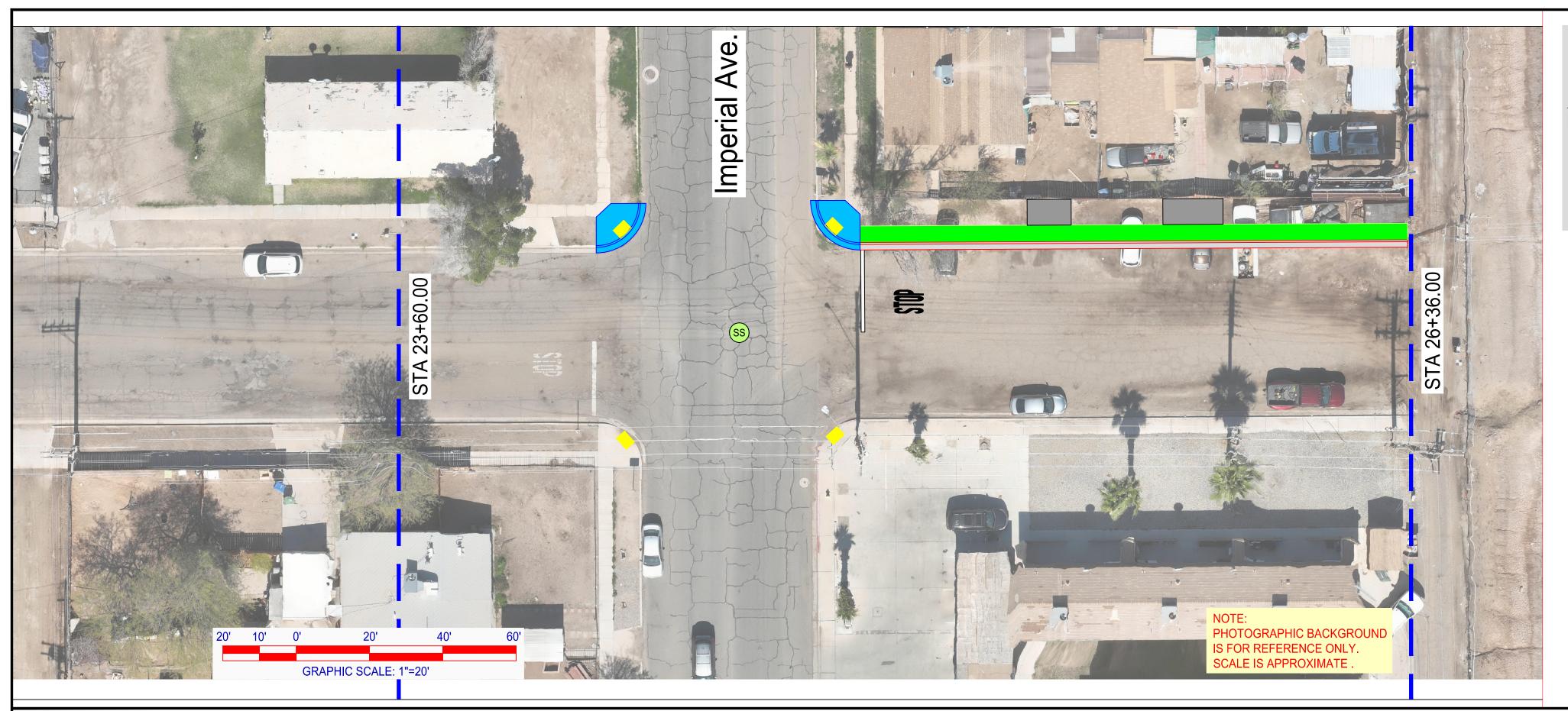
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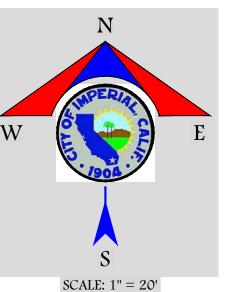
#### 7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

DATE: 2024-04-03

14TH STREET - STRIPING PLAN

FROM 170' WEST OF N. "C" STREET TO OLD SR-86





# 14th Street (Sta 23+60 to Sta 26+36)

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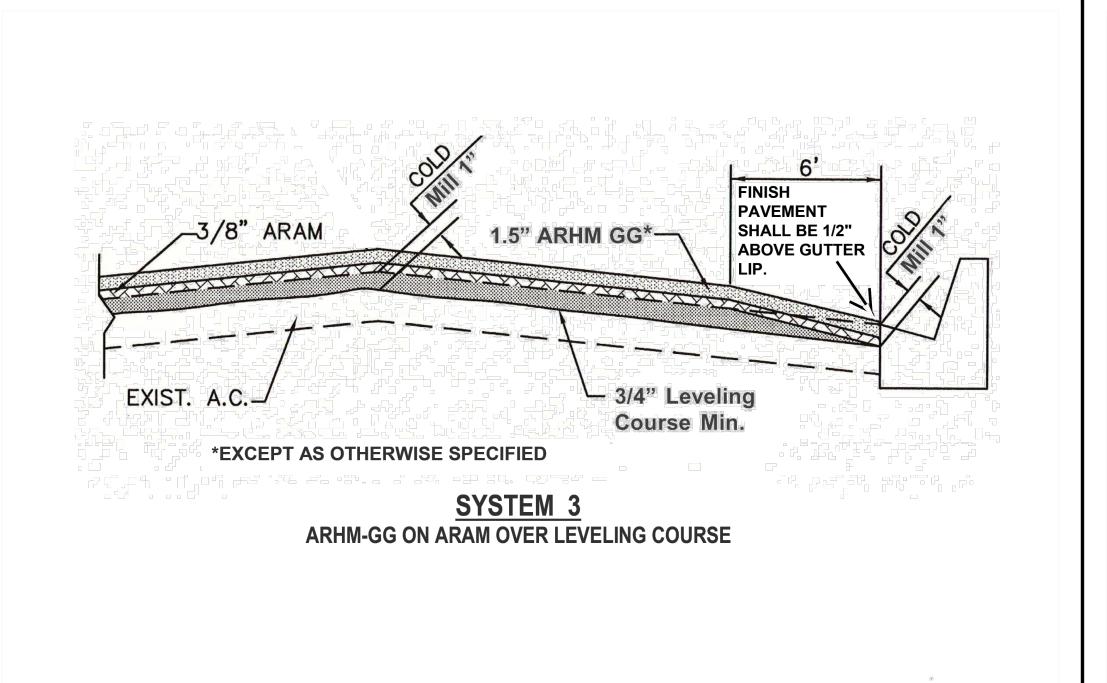
## CITY OF IMPERIAL

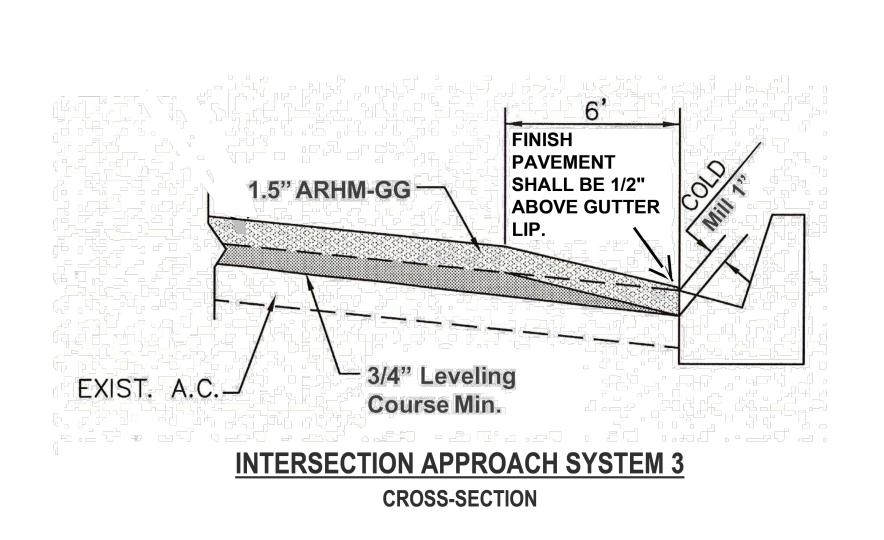
420 South Imperial Avenue Imperial, CA 92251 Ph: (760) 355-3840 • Fax: (760)355-4718 COMMUNITY DEVELOPMENT DEPARTMENT

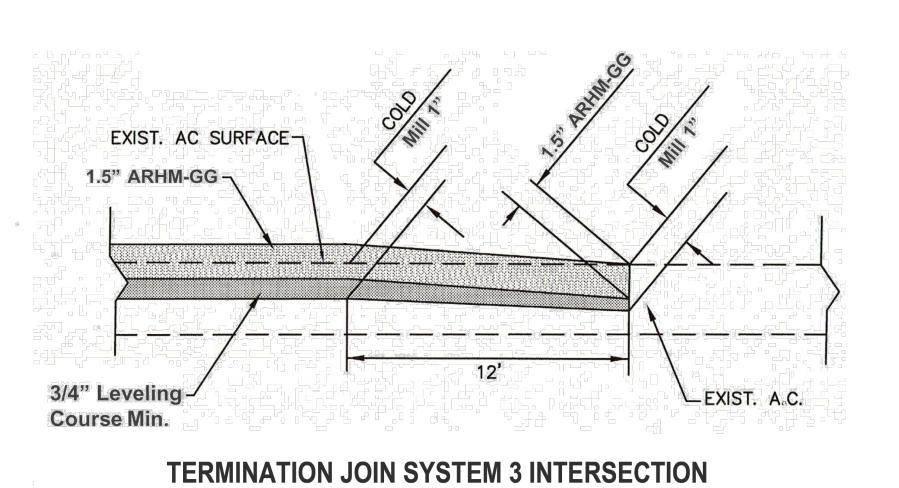
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14TH STREET - STRIPING PLAN FROM 170' WEST OF N. "C" STREET TO OLD SR-86

DATE: 2024-04-03







NOTE:

SEE PART III OF THE "CONTRACT DOCUMENTS AND SPECIFICATIONS", PAGES 102 THRU 122, FOR ASPHALT GRINDING AND OVERLAY SPECIFICATIONS

NO. REVISIONS:

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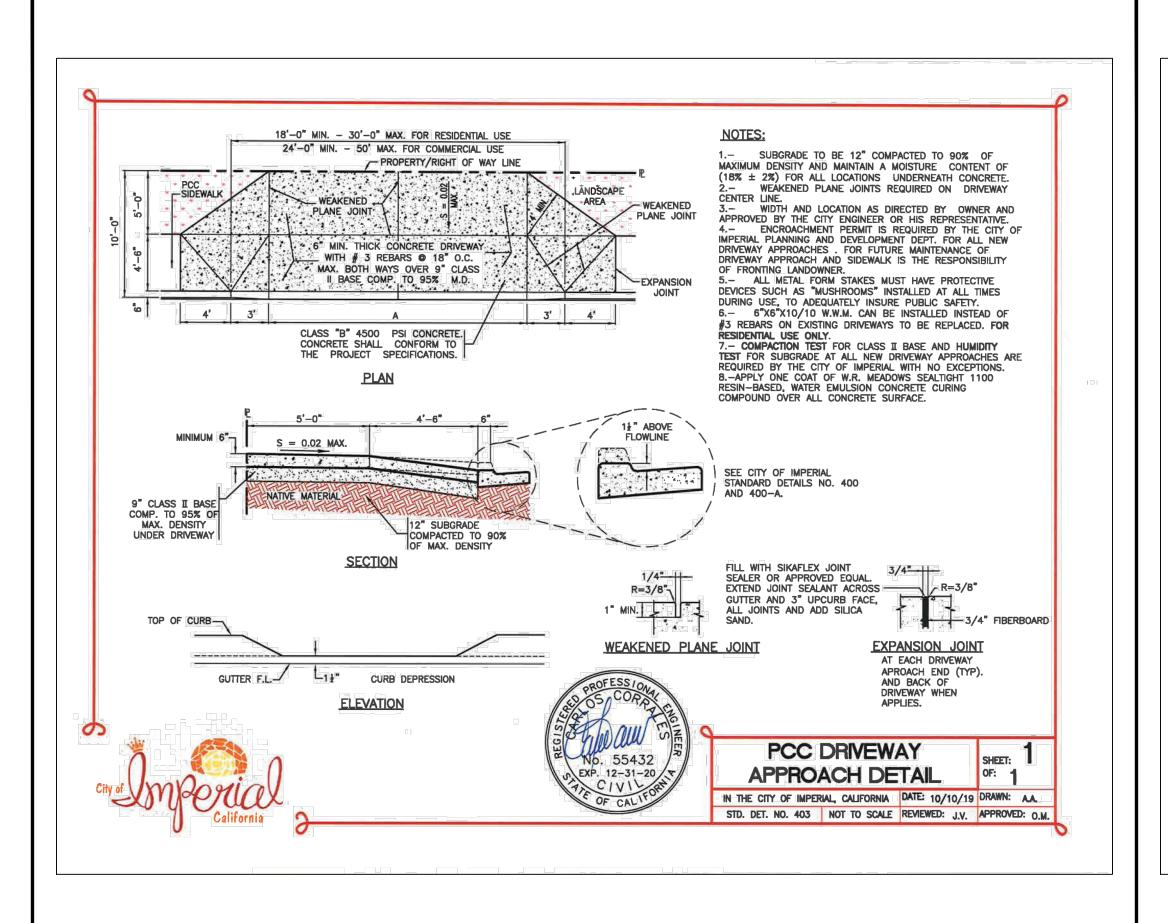
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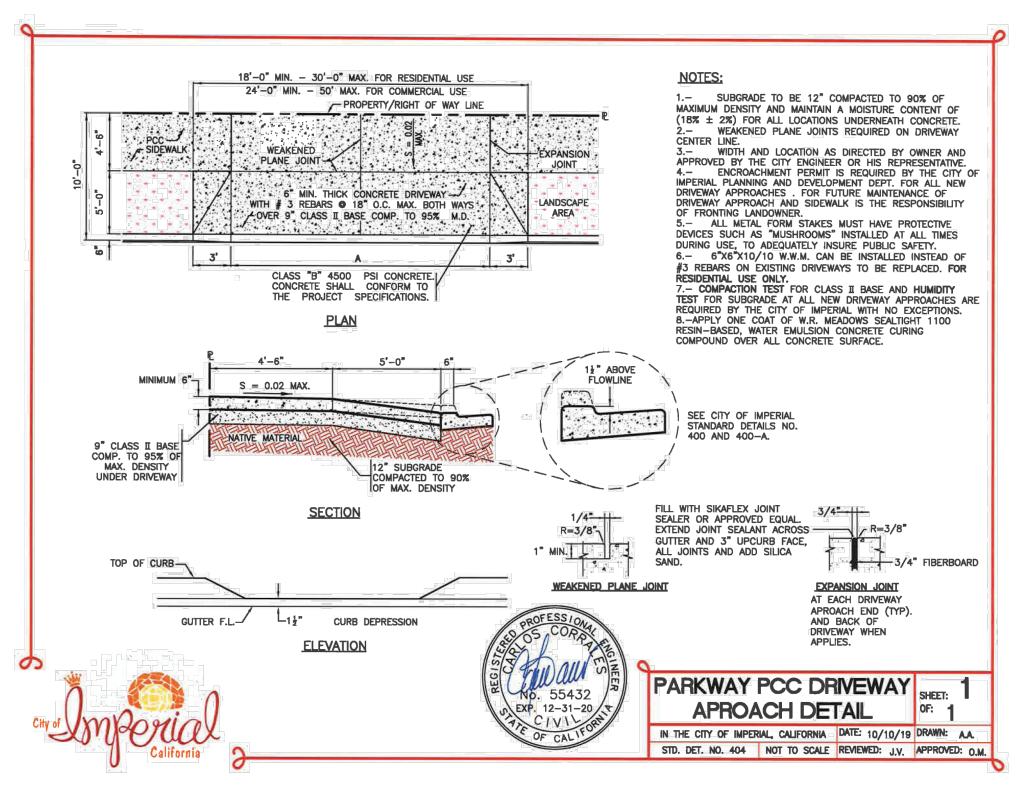
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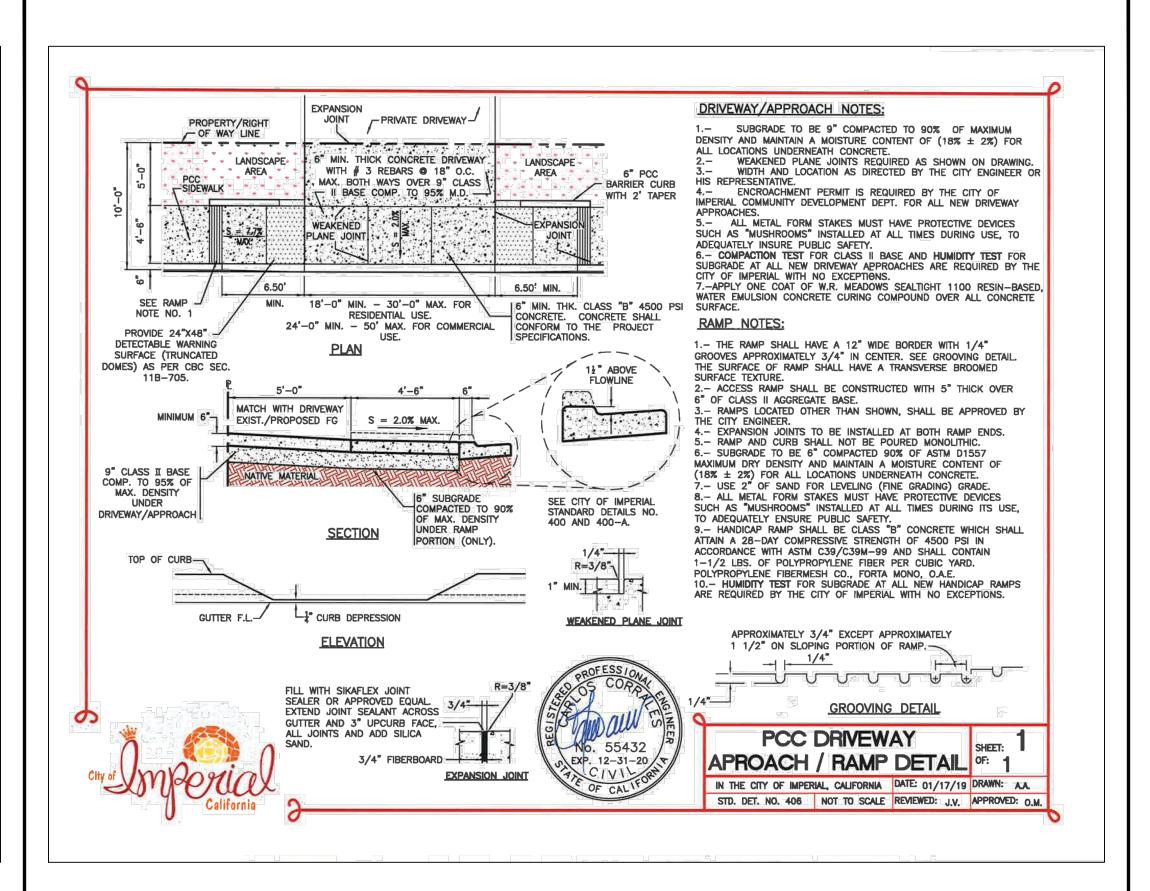
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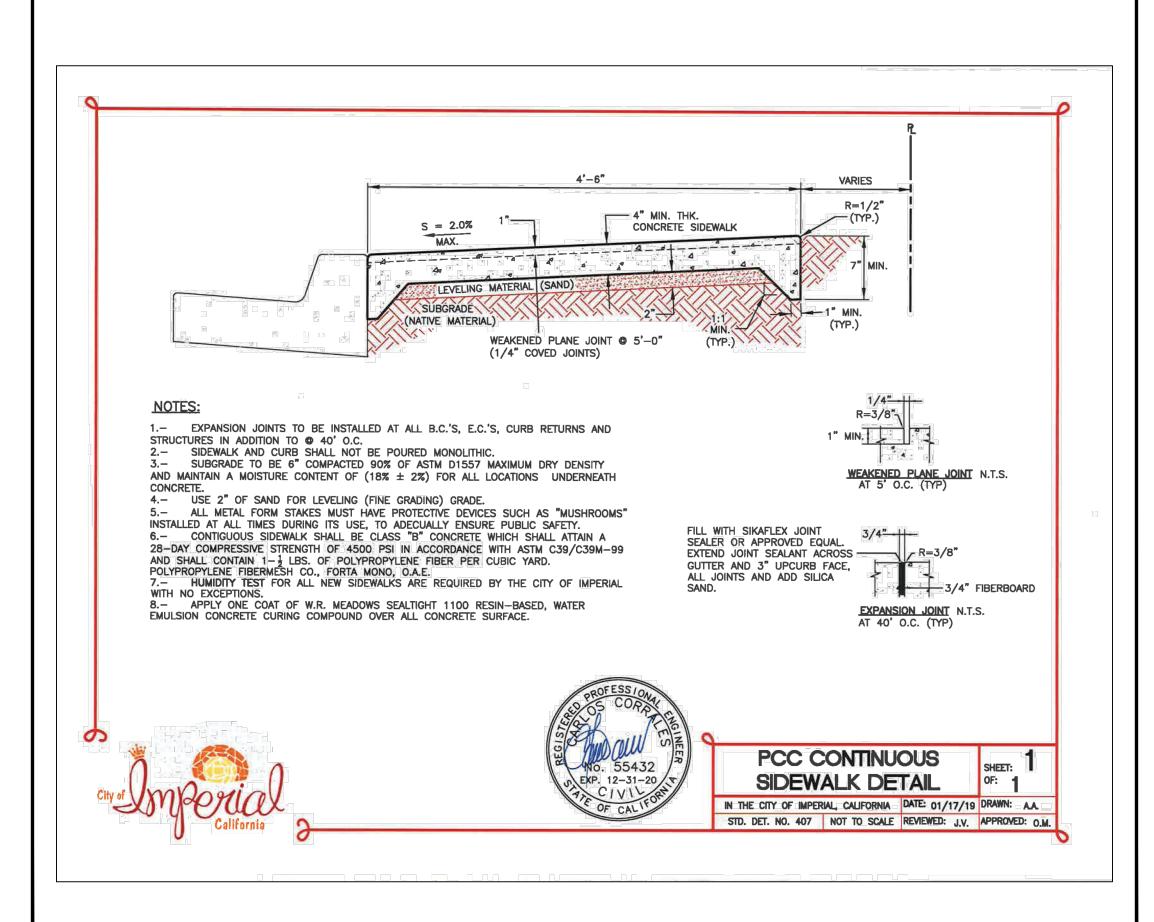
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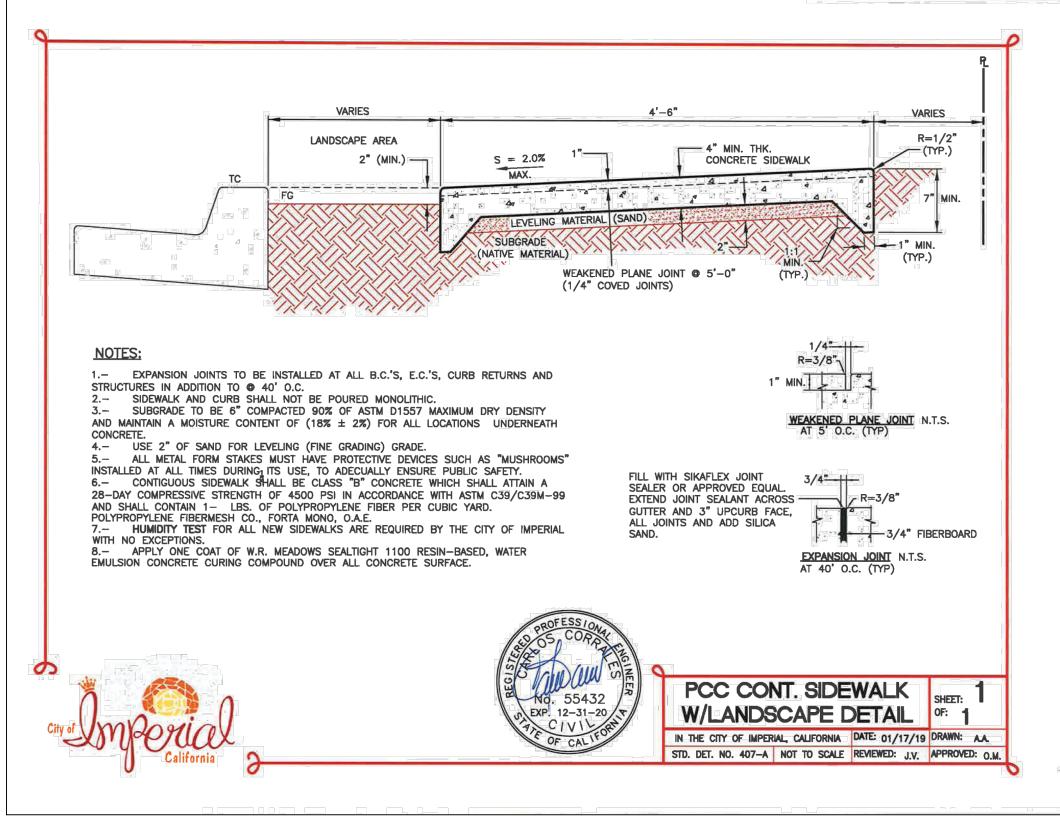
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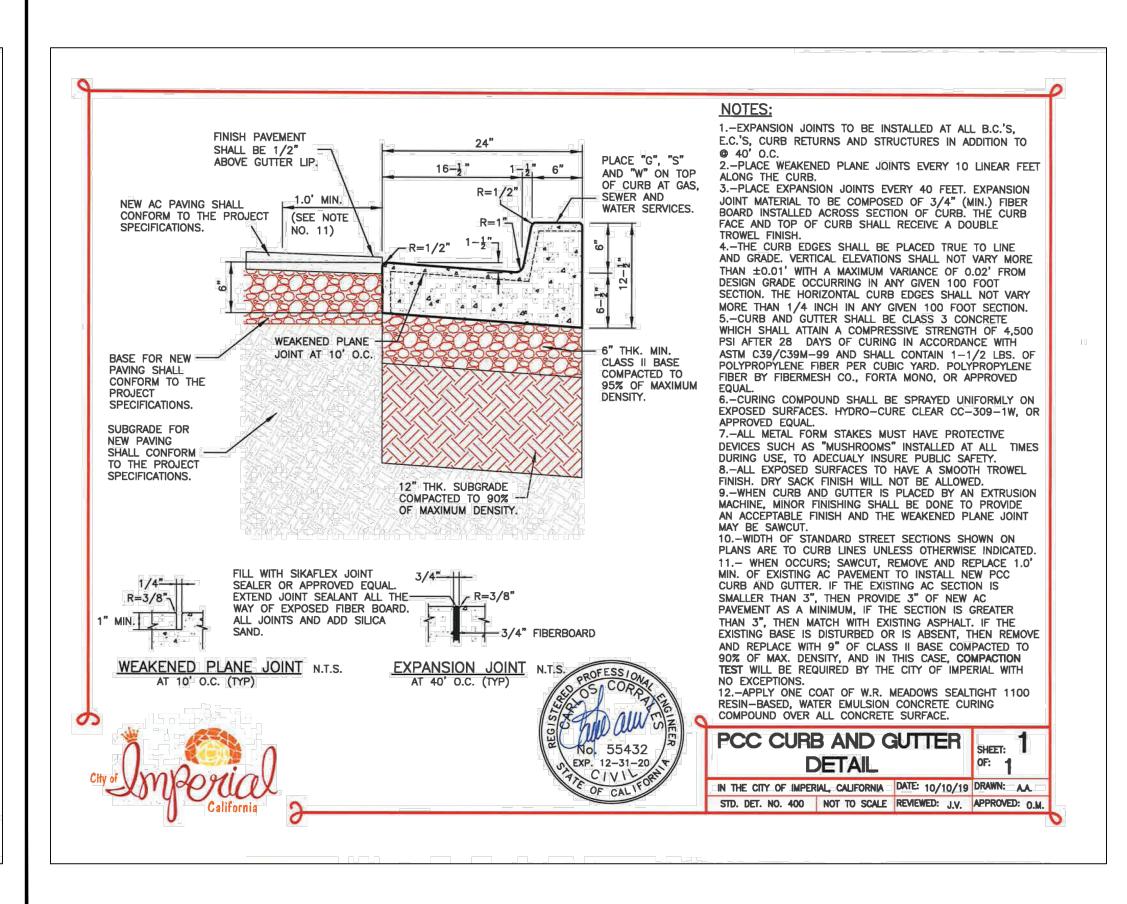


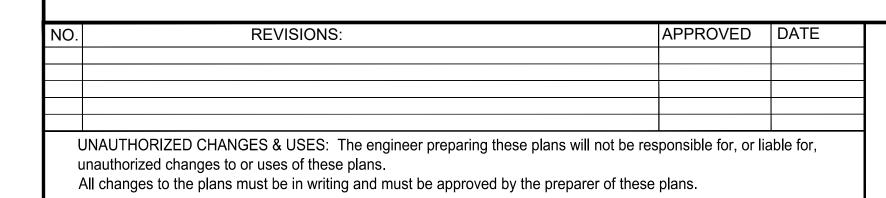














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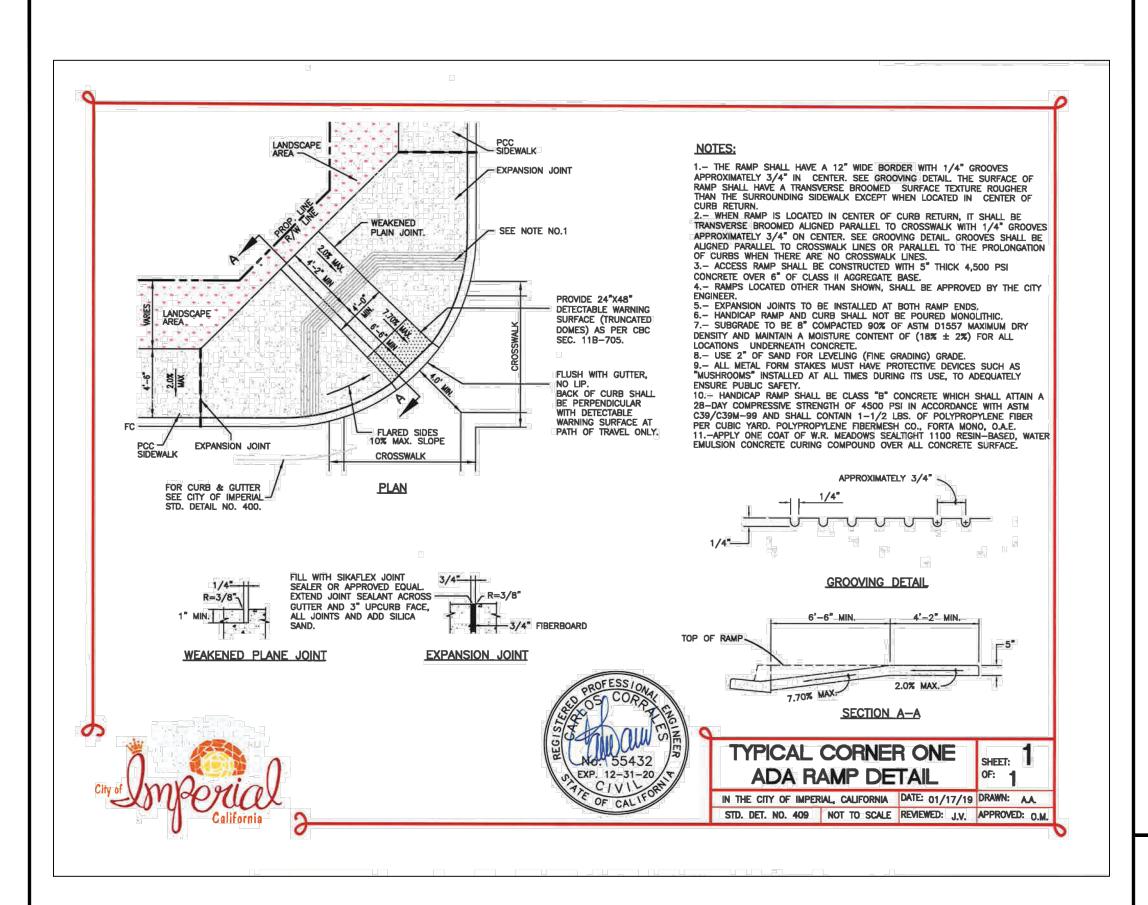
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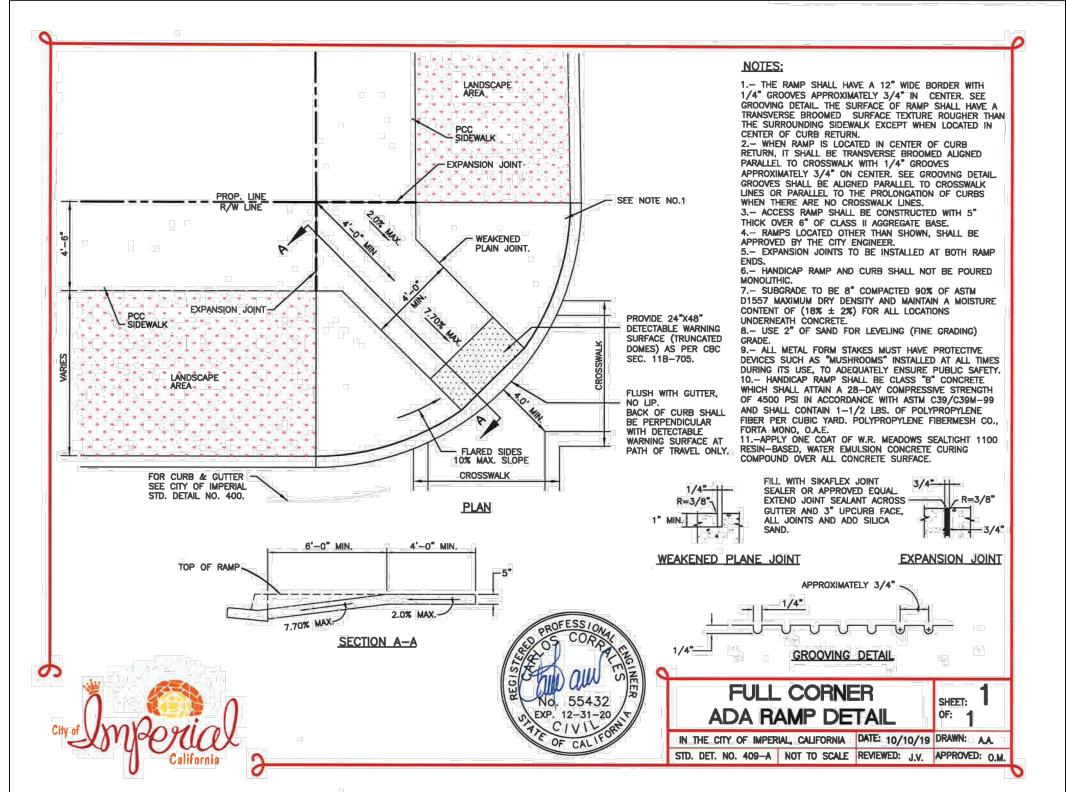
7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID NO. 2024-01

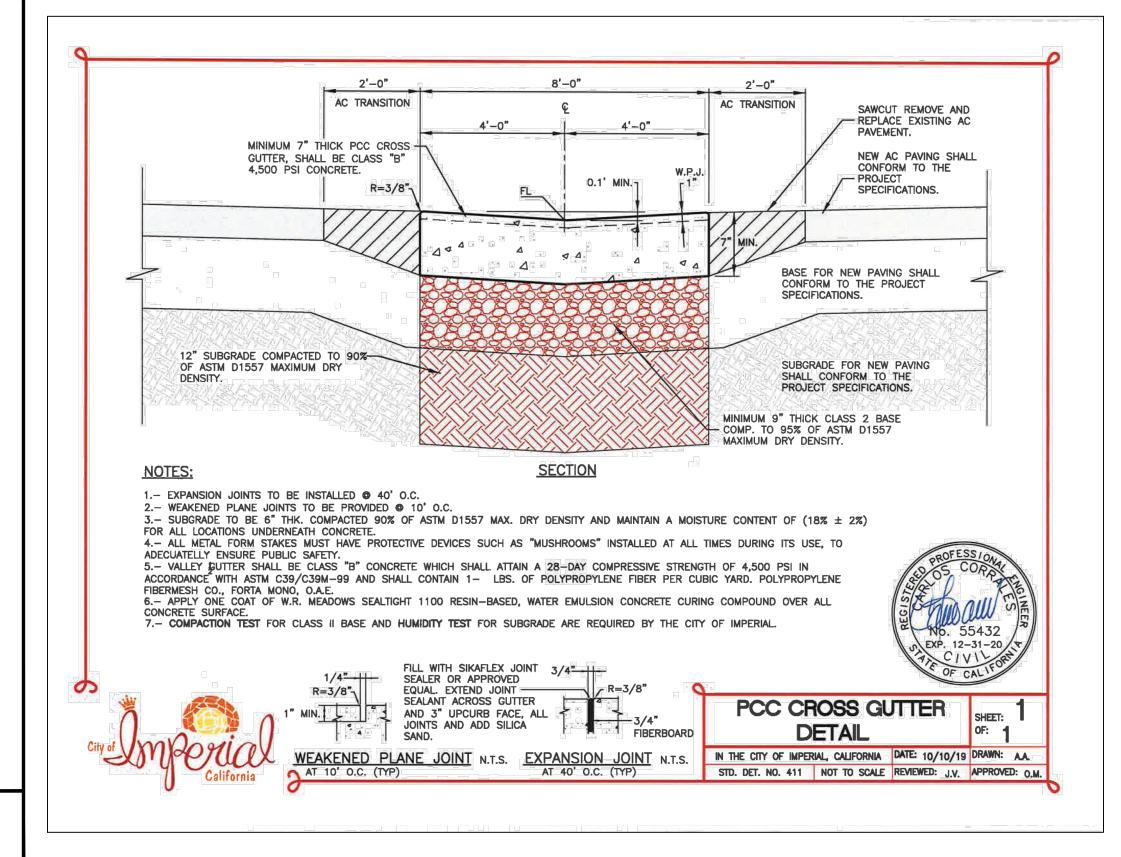
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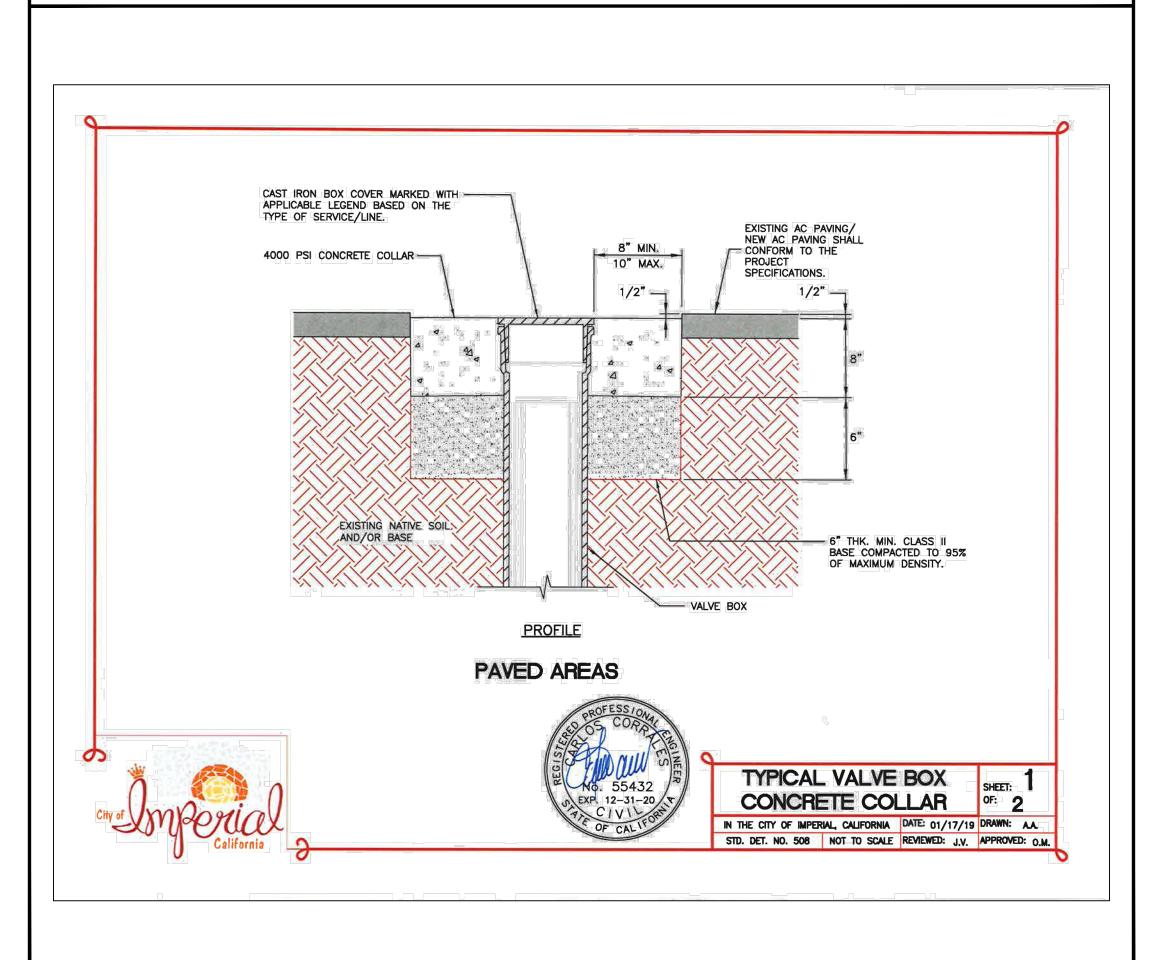
OF **28** SHEETS

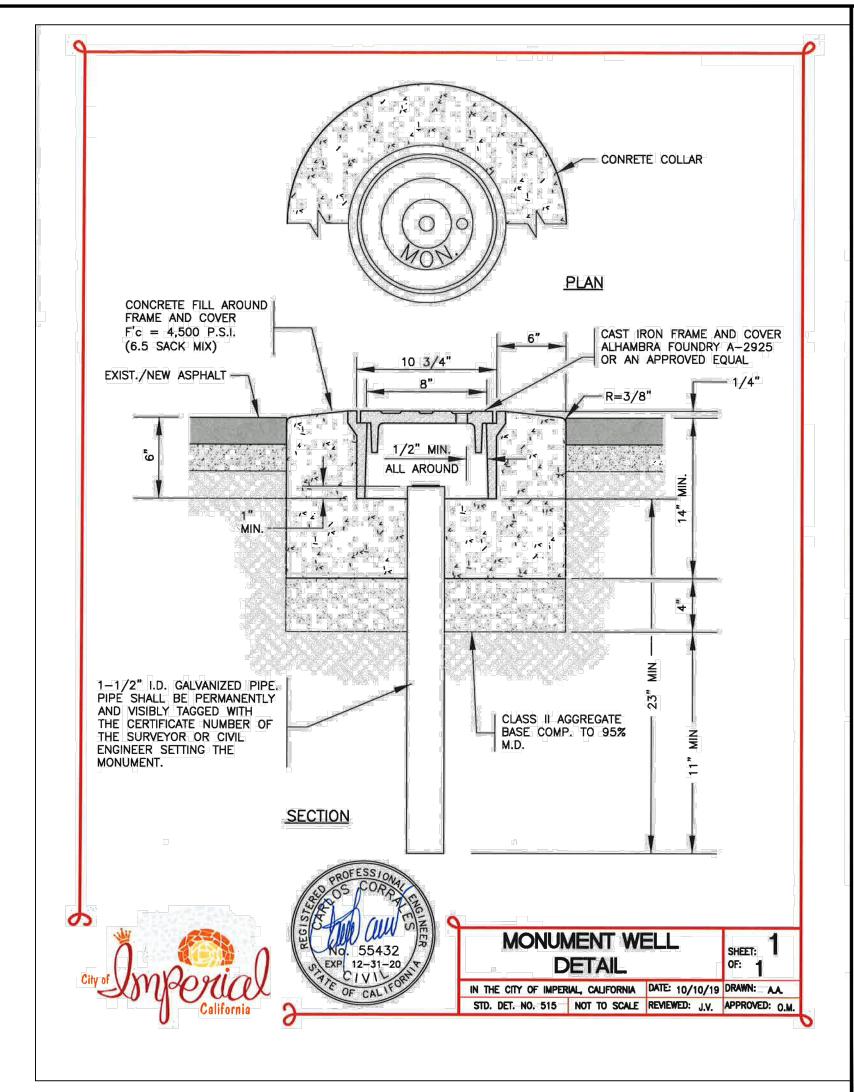
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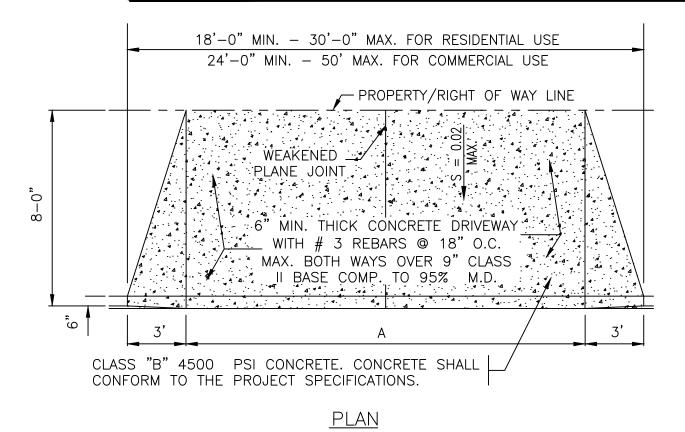












NOTES:

1.— SUBGRADE TO BE 12" COMPACTED TO 90% OF MAXIMUM DENSITY AND MAINTAIN A MOISTURE CONTENT OF (18% ± 2%) FOR ALL LOCATIONS UNDERNEATH CONCRETE.

2.— WEAKENED PLANE JOINTS REQUIRED ON DRIVEWAY CENTER LINE.

3.— WIDTH AND LOCATION AS DIRECTED BY OWNER AND APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE.

4.— ENCROACHMENT PERMIT IS REQUIRED BY THE CITY OF IMPERIAL PLANNING AND DEVELOPMENT DEPT. FOR ALL NEW

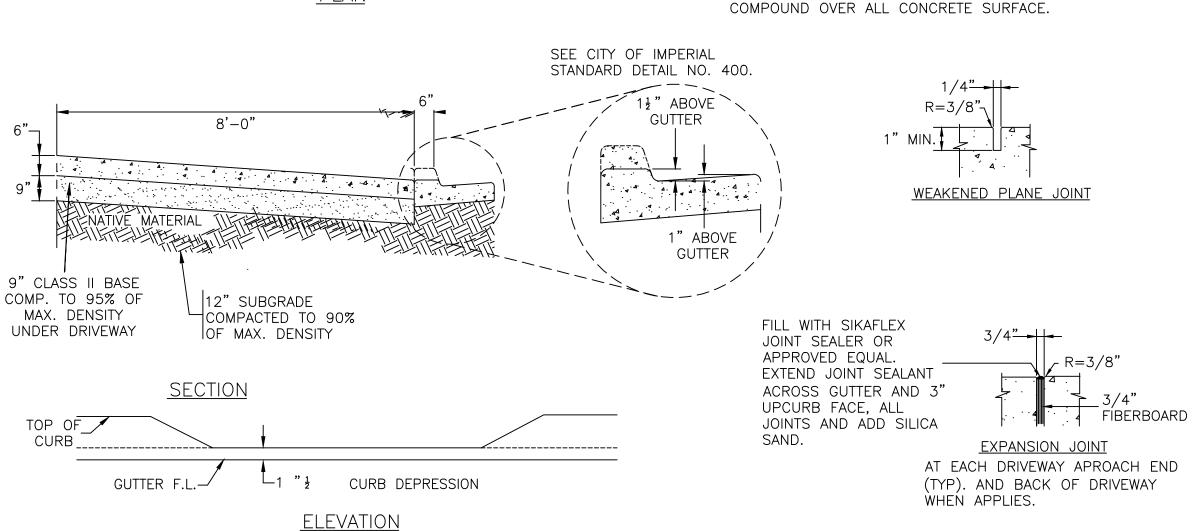
DRIVEWAY APPROACHES . FOR FUTURE MAINTENANCE OF

DRIVEWAY APPROACH AND SIDEWALK IS THE RESPONSIBILITY OF FRONTING LANDOWNER.

5.— ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE PUBLIC SAFETY.

6.— 6"X6"X10/10 W.W.M. CAN BE INSTALLED INSTEAD OF #3 REBARS ON EXISTING DRIVEWAYS TO BE REPLACED. FOR

RESIDENTIAL USE ONLY.
7.— COMPACTION TEST FOR CLASS II BASE AND HUMIDITY
TEST FOR SUBGRADE AT ALL NEW DRIVEWAY APPROACHES ARE
REQUIRED BY THE CITY OF IMPERIAL WITH NO EXCEPTIONS.
8.—APPLY ONE COAT OF W.R. MEADOWS SEALTIGHT 1100
RESIN—BASED, WATER EMULSION CONCRETE CURING



PCC DRIVEWAY TYPE "B" DETAIL

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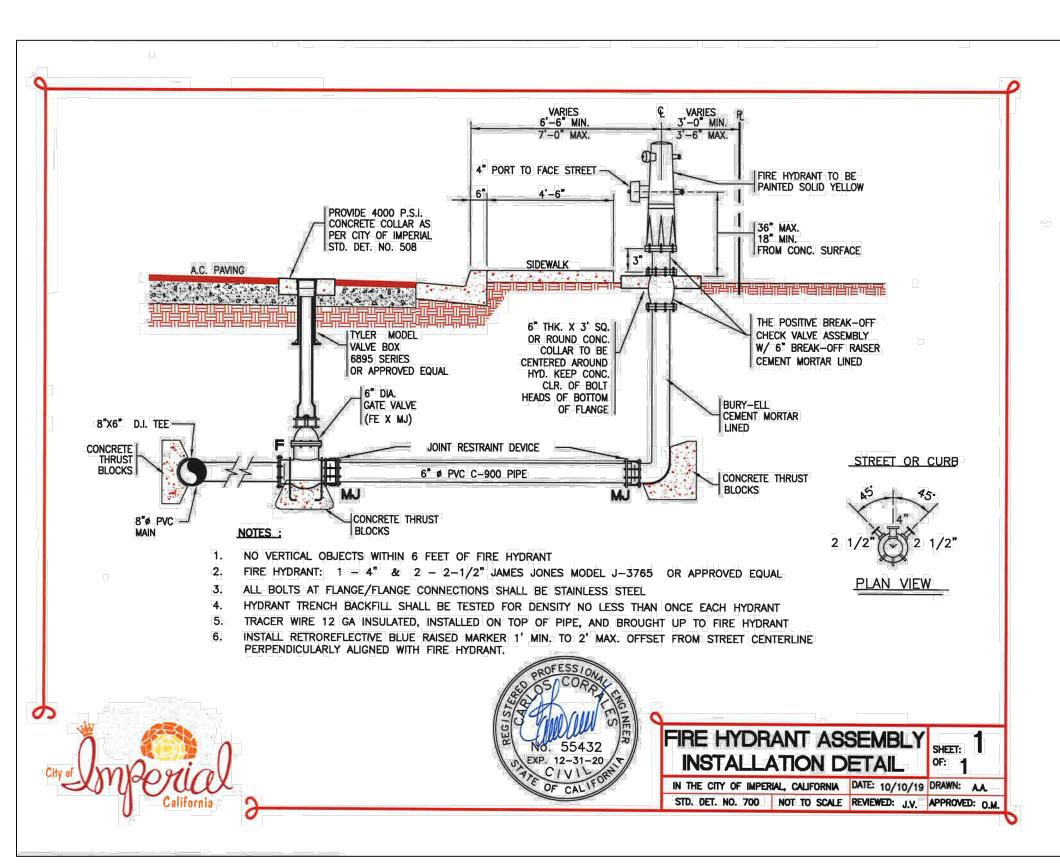
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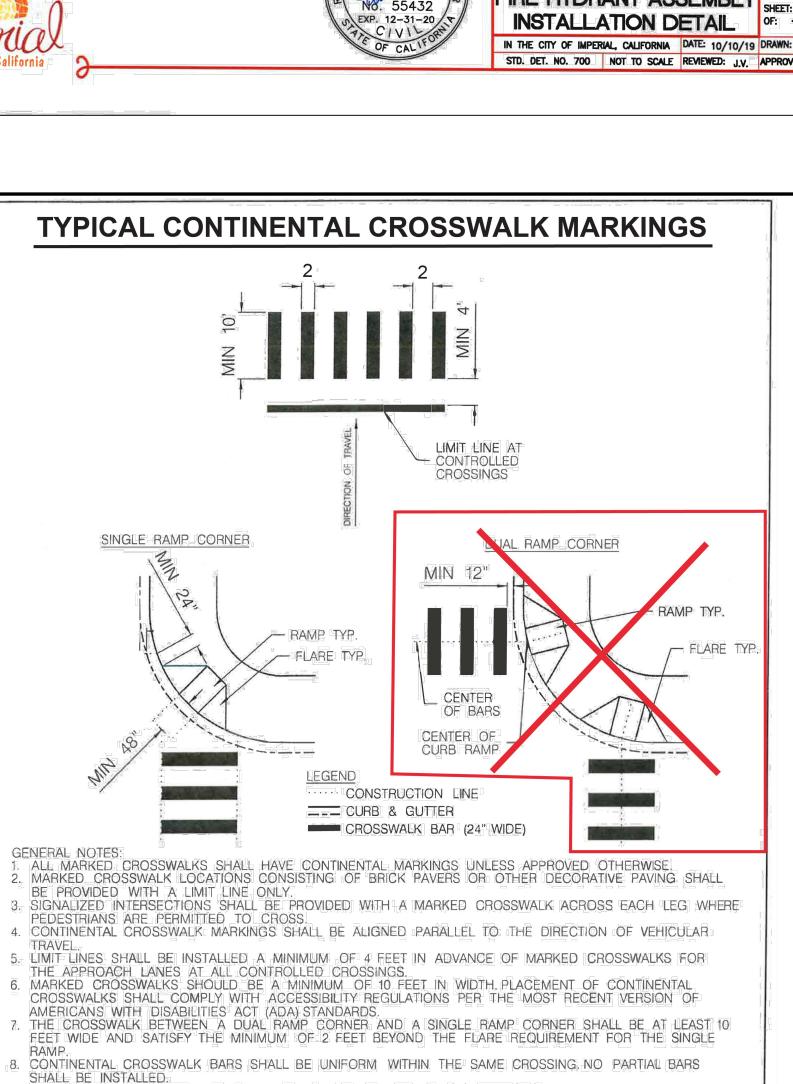
7TH, 10TH & 14TH STREETS REHABILITATION PROJECT

DETAILS SHEET

OF 28 SHEETS

SHEET





9. A CROSSWALK BAR SHALL BE CENTERED IN THE CENTER OF THE CROSSING.
10. CROSSWALK MARKINGS SHALL BE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD) RETROREFLECTIVITY COMPLIANT AND SKID RESISTANT.

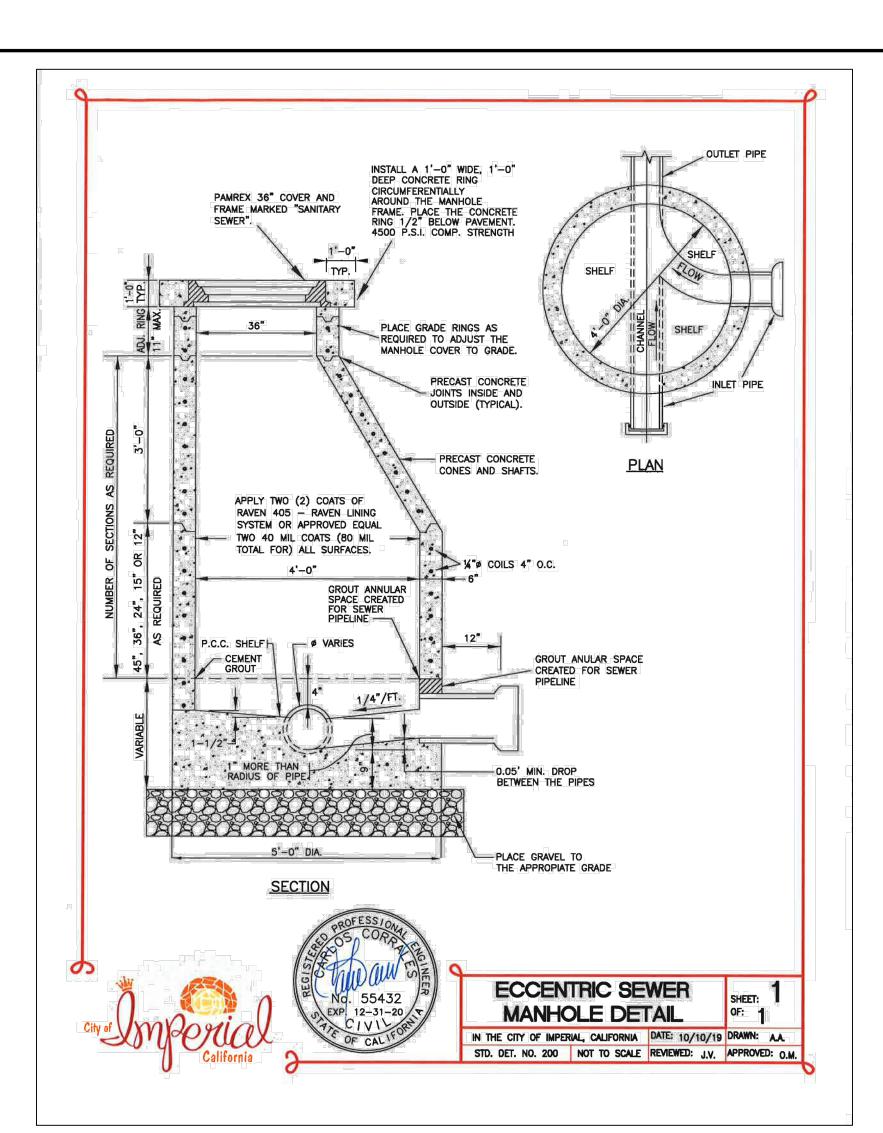
11. ALL MARKED CROSSWALKS SHALL BE THERMOPLASTIC AND SHOULD BE APPLIED

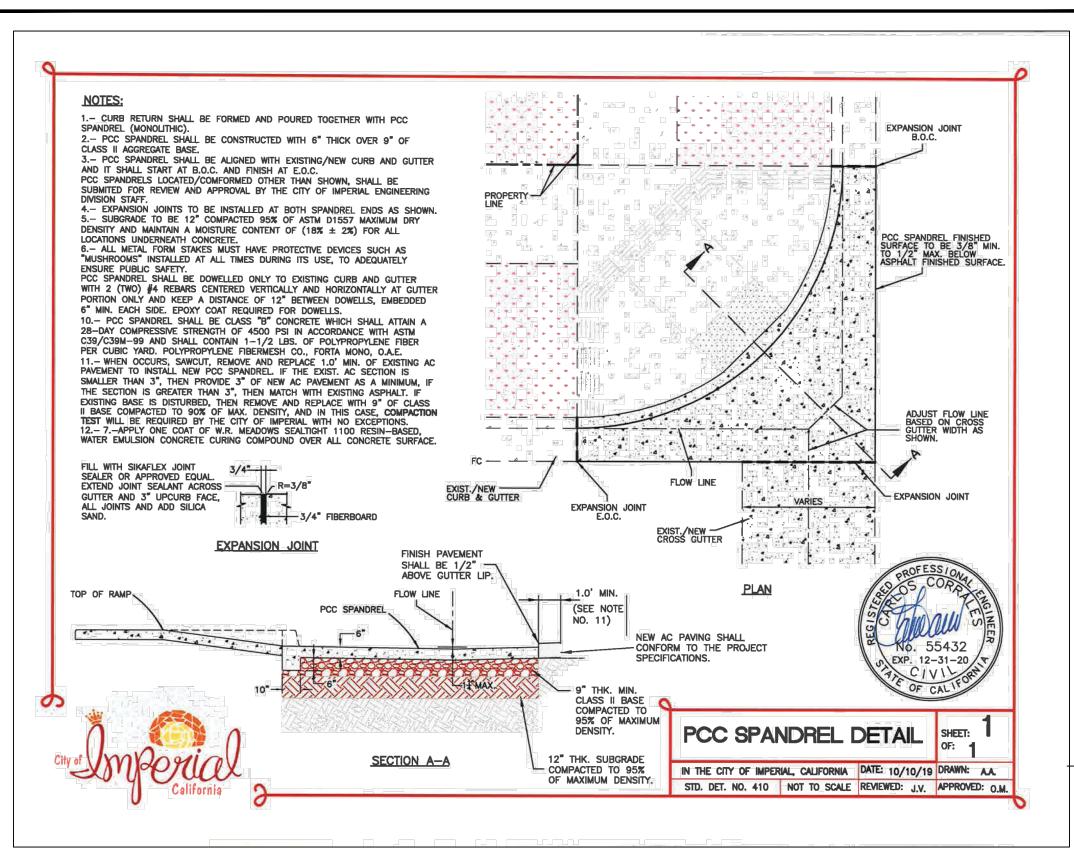
BETWEEN 14 DAYS TO 30 DAYS AFTER PAVING

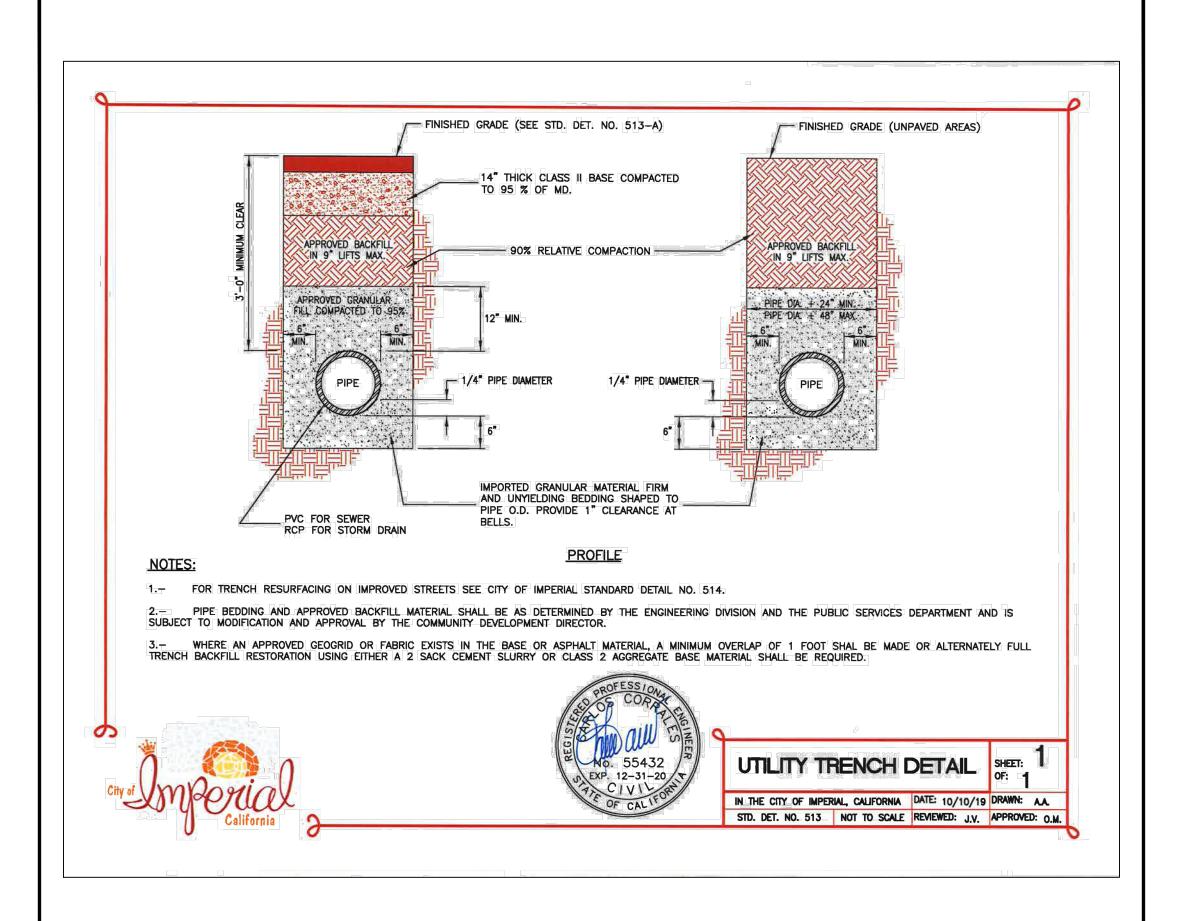
APPROVED DATE **REVISIONS:** 

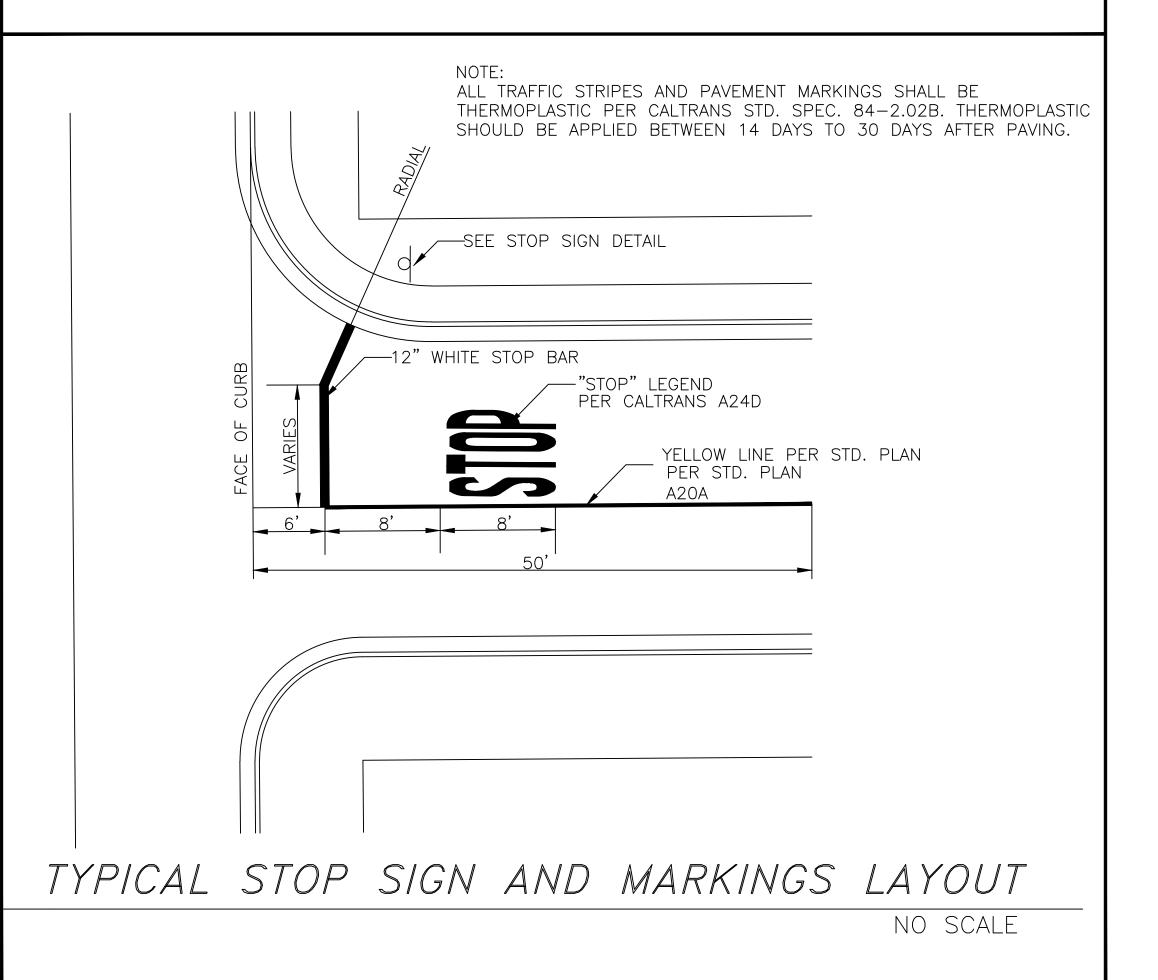
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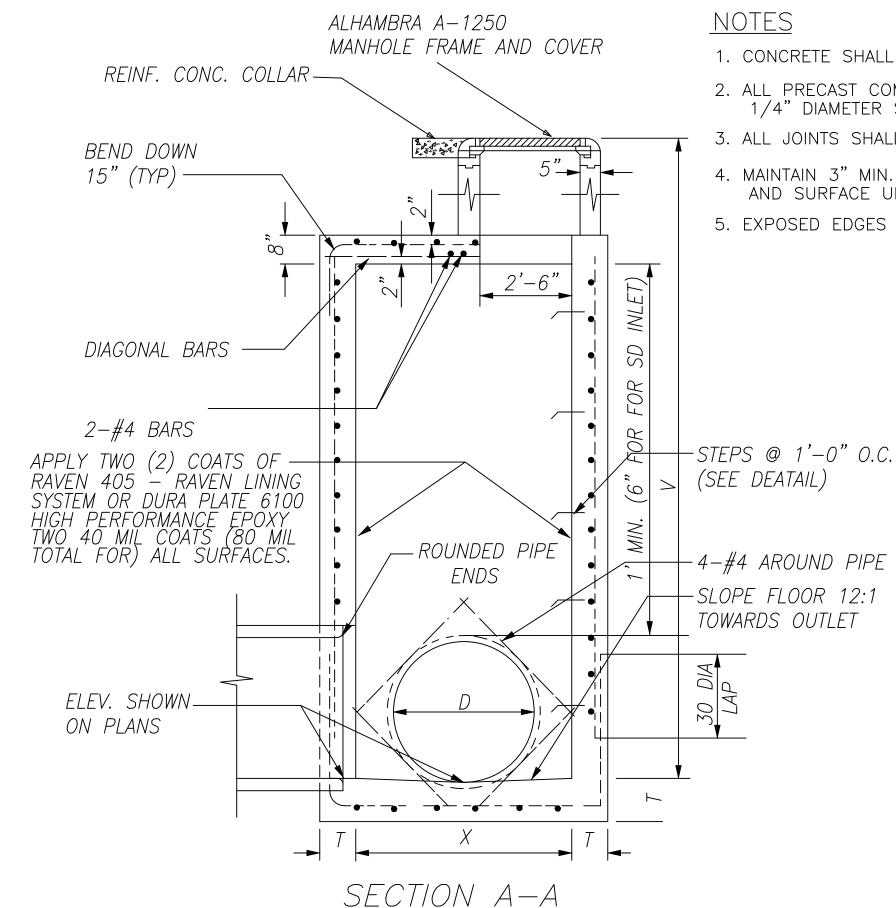
#### COMMUNITY DEVELOPMENT DEPARTMENT

7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

**DETAILS SHEET** 

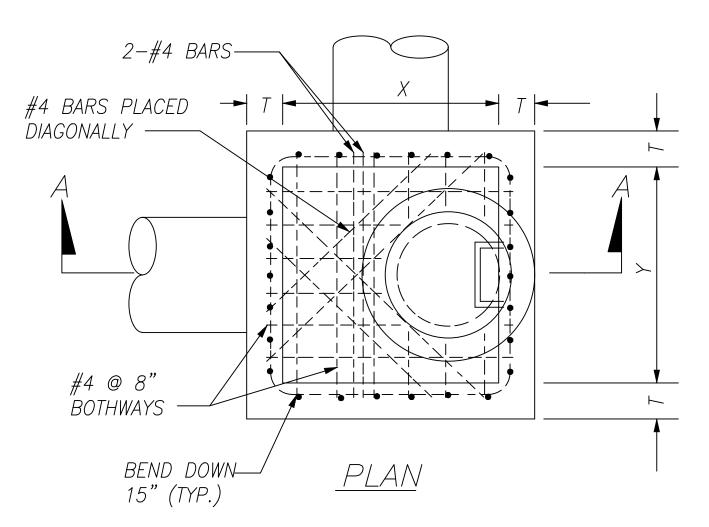
**SHEETS** 

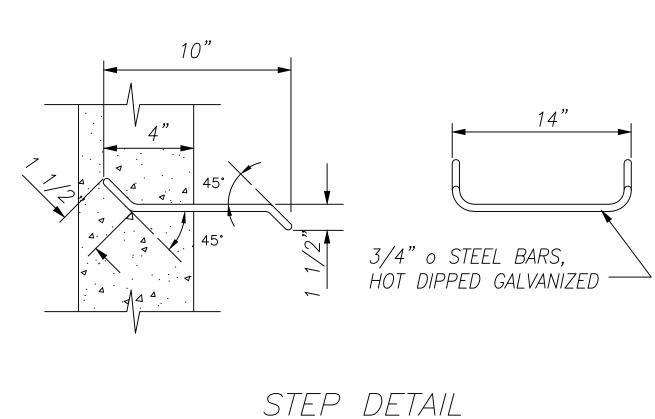
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- 1. CONCRETE SHALL BE 4500 PSI.
- 2. ALL PRECAST COMPONENTS SHALL BE REINFORCED WITH 1/4" DIAMETER STEEL, WOULD SPIRALLY ON 4" CENTERS.
- 3. ALL JOINTS SHALL BE SET IN CLASS C MORTAR.
- 4. MAINTAIN 3" MIN. CLEAR SPACING BETWEEN REINFORCING AND SURFACE UNLESS OTHERWISE NOTED.
- 5. EXPOSED EDGES OF CONCRETE SHALL BE ROUNDED WITH A RADIUS OF 1/2".

PIPE DIA.	X	Y
UP TO 39"	4'	4'
42" TO 48"	5'	4'
59" TO 60"	6'	4'
63" TO 72"	7'	4'
75" TO 84"	8'	4'

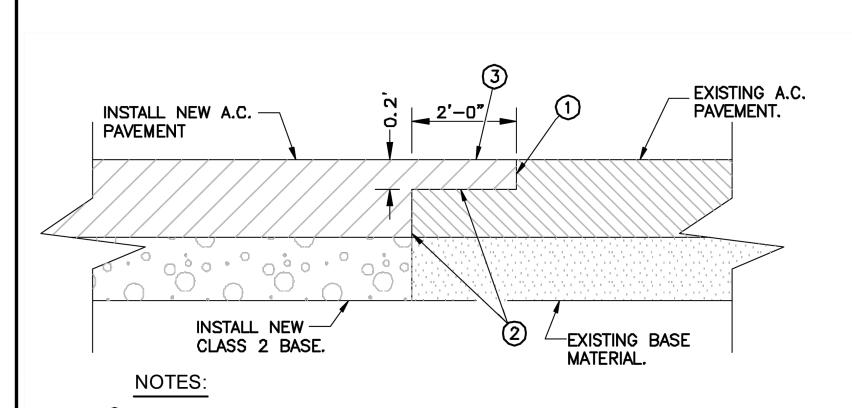




SECTION A-A				
MAXIMUM SPAN	DEPTH	THICK-	HOR. & FLR.	
X OR Y	V	NESS T	REINF.	
3'-0" TO 4'-0"		6"	#4 @ 18"	
4'-1" TO 7'-0"	4'-0"	6"	#4 @ 12"	
7'-1" TO 8'-0"		6"	#4 @ 8"	
3'-0" TO 4'-0"		6"	#4 @ 18"	
4'-1" TO 5'-0"	4'-1"	6"	#4 @ 12"	
5'-1" TO 6'-0"	ТО	6"	#4 @ 8"	
6'-1" TO 8'-0"	8'-0"	6"	#4 @ 6"	
8'-1" TO 10'-0"		6"	#5 @ 8"	
3'-1" TO 4'-0"		6"	#4 @ 15"	
4'-1" TO 5'-0"	8'-1"	8"	#4 @ 12"	
5'-1" TO 6'-0"	TO 12'-0"	8"	#4 @ 8"	
6'-1" TO 8'-0"	12 -0	8"	#4 @ 6"	
3'-0" TO 4'-0"		6"	#4 @ 12"	
4'-1" TO 5'-0"	12'-1"	8"	#4 @ 12"	
5'-1" TO 6'-0"	TO	8"	#4 @ 8"	
6'-1" TO 7'-0"	16'-0"	8"	#4 @ 6"	
7'-1" TO 8'-0"		8"	#4 @ 8"	
3'-0" TO 4'-0"		8"	#4 @ 12"	
4'-1" TO 5'-0"	16'-1"	10"	#4 @ 12"	
5'-1" TO 6'-0"	TO	10"	#4 @ 8"	
6'-1" TO 7'-0"	20'-0"	10"	#4 @ 6"	
7'-1" TO 8'-0"		10"	#4 @ 8"	
3'-0" TO 4'-0"		8"	#4 @ 12"	
4'-1" TO 5'-0"	20'-1"	10"	#4 @ 12"	
5'-1" TO 6'-0"	TO	10"	#4 @ 8"	
6'-1" TO 7'-0"	24'-0"	10"	#4 @ 6"	
7'-1" TO 8'-0"		12"	#4 @ 8"	

## STORM DRAIN JUNCTION BOX

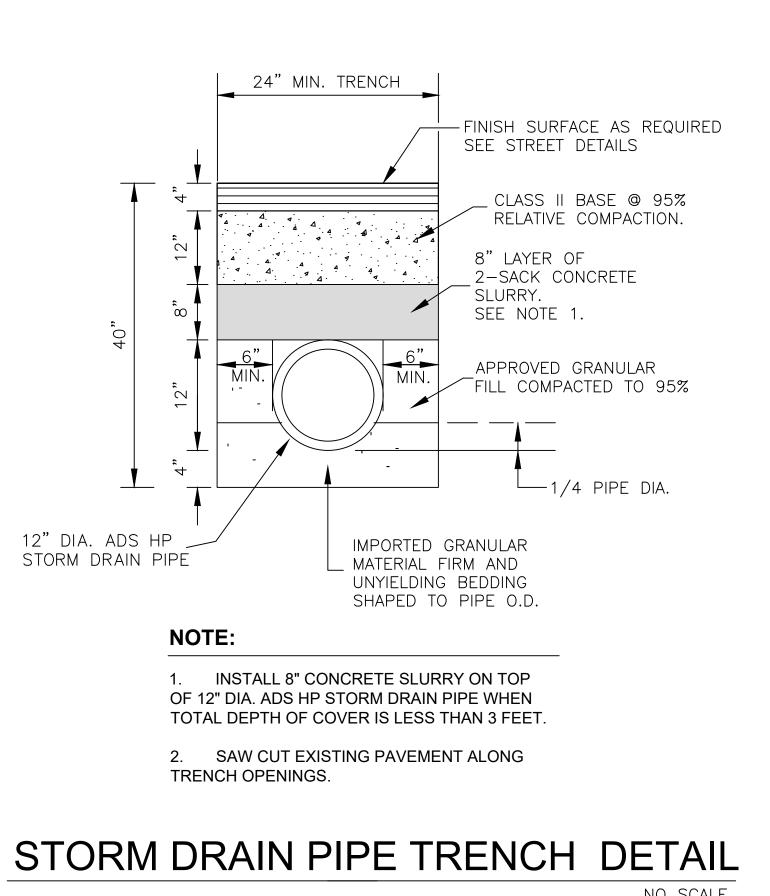
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- (1) COLD PLANE 2 FOOT WIDE X 0.20 FOOT DEEP AREA FOR THE FULL
- WIDTH OF THE A.C. PAVEMENT.
- 2) TACK COAT THE SAWCUT A.C. PAVEMENT EDGE AND COLD PLANED AREA WITH A GRADE SS-1H EMULSIFIED ASPHALT AT AN APPROXIMATE RATE OF 0.05 TO 0.10 GALLON PER SQUARE YARD. THE SH-1H EMULSIFIED ASPHALT SHALL BE UNIFORMALY APPLIED PRECEDING THE PLACEMENT OF THE NEW ASPAHLT CONCRETE. THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL OR DUST WHEN THE TACK COAT IS
- 3) OVERLAY HEADER AREA TO MATCH NEW AND EXISTING A.C.
- SURFACES.
- (4) WHERE PAVEMENT IS INSTALLED ON A PROJECT ON MORE THAN ONE DAY, A HEADER (AS HERE IN DESCRIBED) MUST BE PROVIDED AT THE CONSTRUCTION JOINT.

#### **CONNECTION DETAIL BETWEEN NEW AND EXISTING ASPHALT**

#### APPROVED DATE **REVISIONS:** 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.



NO SCALE

2'-0" 2'-6" - SEE ANGLE DETAIL. \_\_\_LOWER GUTTER FLOWLINE \_\_\_ A.C. PAVING 24"X 24" C.I. FRAME & COVER (LIGHT \_3 No. 3 HORIZ. BARS AT 12" O.C. No. 3 BARS AT 12" O.C. HORIZ. & VERT. (TYP. THROUGHOUT). -18" DIA. RCP/PVC OPENING \_MATCH TOP OF STORM DRAIN PIPE \_15" DIA RCP/PVC PIPE AT MANHOLE STORM DRAIN PIPE EXP. JOINT — - LIP OF GUTTER CURB ÆXP, JOINT FACE FOUNDATION SOIL TO BE 6" COMPACTED TO 90%. 4'-0' 5'-0' -CONC.S/W.├-No. 3 VERT BARS AT 12" SECTION A-A 5 No. 3 BARS -AT 4" O.C. +/-No. 3 HORIZ. °6"\ Mo. 4 AT 6" TACK WELD PLATE. INST. EXPAN. JOINT └─24"X 24" C.I. FRAME & COVER (LIGHT DUTY) MATL. CONT. ALL "ALHAMBRA" No. A-2015 OR EQUAL. AROUND STRUCT. "ALHAMBRA" A-1573 PROTECTION BOLTS AT 8" O.C. 4'-0" 4'-0" 13'-0" 5-No. 3 BARS AT 4" O.C. \_\_\_\_\_ PLAN VIEW √a" CLEAR "ALHAMBRA" A-3971 PLATE ANGLE 7'-0" LONG GALV. STORM DRAIN CATCH BASIN ANGLE DETAIL WITH BIO CLEAN FILTER NO SCALE

DATE: 2024-04-03



#### CITY OF IMPERIAL

420 South Imperial Avenue Imperial, CA 92251 Ph: (760) 355-3840 • Fax: (760)355-4718

7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

5'-0"

**28** SHEETS

SHEET

**DETAILS SHEET** 

#### 1. GENERAL

1.01 APPROVALS: ALL WORK PERFORMED AND MATERIAL FURNISHED FOR COMPLETION OF IMPROVEMENTS CALLED FOR ON THESE DRAWINGS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF AUTHORIZED REPRESENTATIVES OF THE CITY AND DEVELOPERS AND SHALL NOT BE COVERED, BURIED OR OTHERWISE CONCEALED UNTIL SUCH HAS BEEN SO INSPECTED AND APPROVED. ALL UNDERGROUND CONDUIT AND APPURTENANCES FOR ELECTRICAL POWER, TELEPHONE AND CABLE TELEVISION SYSTEMS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF AUTHORIZED REPRESENTATIVES OF THE SERVING UTILITIES. ALL EARTHWORK SHALL BE

SUBJECT TO THE INSPECTION, TESTING AND APPROVAL OF THE SOILS TESTING FIRM THAT FURNISHED THE SOILS REPORT REFERENCED WITHIN THESE DRAWINGS. EACH SUBCONTRACTOR SHALL GIVE THE INSPECTING AUTHORITY NO LESS THAN 24 HOUR NOTICE OF HIS NEED FOR INSPECTION OR TESTING.

1.02 SITE CONDITIONS: EACH SUBCONTRACTOR DOING WORK ON THIS PROJECT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS AND PROPERTY WITHIN HIS WORK AREA, DAY AND NIGHT, DURING BOTH WORKING AND NONWORKING HOURS; AND SHALL PROVIDE BARRICADES, SHORING, FLAGMEN, SIGNS, LIGHTING AND OTHERS DEVICES REQUIRED THEREFORE.

1.03 STANDARD SPECIFICATIONS: THE STANDARD SPECIFICATIONS
REFERENCED IN THESE SPECIFICATIONS SHALL BE THOSE OF THE STATE OF
CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) DATED 2010,
COPIES OF SUCH ARE OBTAINABLE FROM: CALTRANS, CENTRAL PUBLICATION
DISTRIBUTION UNIT, 1900 ROYAL OAKS DRIVE, SACRAMENTO, CA. 95815—3800. ALL
THE WORK SHOWN OR CALLED FOR ON THESE DRAWINGS SHALL CONFORM TO THESE
SPECIFICATIONS REFERENCED HEREIN, INCLUDING THOSE OTHER SECTIONS AND
ASTM. AWWA AND AASHTO STANDARDS THEREIN REFERENCED.

1.04 UNDERGROUND CONDUIT: PLANS, DETAILS AND SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND CONDUIT AND APPURTENANCES FOR THE ELECTRICAL POWER, TELEPHONE AND CABLE TELEVISION SYSTEMS HAVE BEEN PREPARED BY OR IN ACCORDANCE WITH THE REQUIREMENTS AND APPROVALS OF THE SERVING UTILITY COMPANIES. ALL SUCH WORK SHALL CONFORM TO THOSE REFERENCED DOCUMENTS TO SAME EXTENT AS IF THEY WERE SHOWN, DETAILED AND SPECIFIED WITH THESE DRAWINGS AND RELATED DOCUMENTS. QUESTIONS REGARDING DESIGNS AND DETAILS OF SUCH WORK SHALL BE DIRECTED TO THE UTILITY INVOLVED THEREWITH.

1.05 SERVICES: EACH AND EVERY LOT SHOWN IN THESE DRAWINGS SHALL BE PROVIDED ONE EACH SEWER SERVICE, WATER SERVICE, DRIVE APPROACH, ELECTRICAL POWER SERVICE, TELEPHONE SERVICE, GAS SERVICE AND CABLE TELEVISION SERVICE. ALL POWER, TELEPHONE, TELEVISION AND GAS SERVICES SHALL BE BROUGHT TO ONE CORNER OF EACH LOT IN EITHER UNDERGROUND PIPE OR UNDERGROUND CONDUIT.

1.06 TRAFFIC CONTROL: EACH SUBCONTRACTOR DOING WORK ON THIS PROJECT SHALL PROVIDE TRAFFIC CONTROL SIGNS, LIGHTS, FLAGMEN AND OTHER DEVICES NECESSARY TO PROTECT HIS WORK AND EXCAVATIONS AND TO PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC PASSING THROUGH OR NEAR WORK AREAS IN ACCORDANCE WITH THE "MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES," AS PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS). COPIES OF SAID MANUAL MAY BE OBTAINED FROM THAT ADDRESS REFERENCED IN SECTION 1.03 HEREOF.

1.07 TESTING: EACH SUBCONTRACTOR SHALL INCLUDE AS A PART OF HIS WORK ALL TESTING OF MATERIAL AND WORKMANSHIP REQUIRED BY THE CITY AND OTHER AGENCIES AND UTILITIES HAVING JURISDICTION OVER THE WORK. TESTING SHALL BE BY AN INDEPENDENT LABORATORY APPROVED BY THAT AGENCY OR UTILITY REQUIRING SAME; EXCEPT ALL TRENCH BACKFILL, INCLUDING COMPACTION OF SAME, SHALL BE TESTED BY THAT FIRM WHICH FURNISHED THE SOILS REPORT REFERENCED FOR EARTHWORK WITHIN THESE DRAWINGS. COPIES OF ALL TEST REPORTS SHALL BY PROVIDED TO THE CITY AND OTHER AGENCIES AND UTILITIES REQUIRING TESTS. MATERIALS AND WORKMANSHIP FOUND DEFICIENT SHALL BE REMOVED, REPAIRED OR OTHERWISE CORRECTED TO THE SATISFACTION OF THE GOVERNING AGENCY OR UTILITY AND THE DEVELOPER.

1.08 TRENCH SAFETY: EACH SUBCONTRACTOR SHALL PROVIDE SHORING, SHEETING, SHIELDS AND EXCAVATED SLOPES IN TRENCH EXCAVATIONS CONFORMING TO THE REQUIREMENTS OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL/OSHA) AS ADMINISTERED BY THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS AND DEPICTED IN THE "TRENCH AND EXCAVATIONS SAFETY GUIDE" AVAILABLE FROM CAL/OSHA COMMUNICATIONS, 525 GOLDEN GATE AVENUE, SAN FRANCISCO, CA. 94102.

1.09 CERTIFICATES OF COMPLIANCE: SUBCONTRACTORS DOING CONCRETE AND PAVING ITEMS OF WORK SHALL PROVIDE WRITTEN AND SIGNED CERTIFICATIONS FROM CONCRETE AND PAVING SUPPLIERS CERTIFYING THAT ALL MATERIALS SUPPLIED BY HIM TO PROJECT COMPLY WITH THESE SPECIFICATIONS. CERTIFICATES SHALL BE OF APPROVED FORM AND CONTENT, SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE PRODUCT SUPPLIER AND ENDORSED BY THE SUBCONTRACTOR INSTALLING THE PRODUCT. WET SIGNED COPIES OF SAID CERTIFICATES SHALL BE FURNISHED TO THE CITY AND DEVELOPER IMMEDIATELY UPON COMPLETION OF THE WORK.

1.10 ENCROACHMENTS PERMITS: SUBCONTRACTORS DOING WORK OR OPERATING EQUIPMENT WITHIN CITY STREET, COUNTY ROAD, STATE HIGHWAY, IMPERIAL IRRIGATION DISTRICT DITCH OR RAILROAD RIGHTS—OF—WAYS, SHALL OBTAIN AN ENCROACHMENT PERMIT FROM SAID AGENCIES AND SHALL COMPLY THE PROVISIONS AND WITH ALL REQUIREMENTS OF SAID PERMIT. A COPY OF SAID PERMITS SHALL BE PROVIDED TO THE CITY AND DEVELOPER BEFORE COMMENCING ANY WORK IN SUCH AREAS.

1.11 PRE-CAST CONCRETE: WHERE IN THESE DRAWINGS REINFORCED CAST-IN-PLACE CONCRETE STRUCTURES ARE SHOWN OR DETAILED, PRE-CAST CONCRETE STRUCTURES MAY BE USED IN THEIR PLACE. PRE-CAST STRUCTURES SHALL BE OF EQUAL QUALITY, SIZE AND DESIGN TO THAT SHOWN OR DETAILED AND SHALL BE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE CITY OF UTILITY PRIOR TO DELIVERY TO PROJECT SITE. NO LESS THAN THREE COPIES OF THE DETAILS AND SPECIFICATIONS FOR PRE-CAST STRUCTURES SHALL BE PROVIDED FOR REVIEW, COMMENTS OR APPROVAL.

1.12 PRECONSTRUCTION: A PRECONSTRUCTION MEETING SHALL BE HELD INCLUDING REPRESENTATIVES OF THE CITY, DEVELOPER AND ALL PARTIES DOING WORK PURSUANT TO THESE DRAWINGS. AT SAID MEETING, THE NAME OF ALL PARTIES, THEIR ADDRESSES AND PHONE NUMBERS SHALL BE PROVIDED ALONG WITH ESTIMATED DATES WHEN EACH TYPE OF WORK WILL BE UNDER WAY. OTHER DATA RELATIVE TO LICENSE NUMBERS, CONTRACTORS INSURANCE MAY ALSO BE REQUIRED FROM EACH SUBCONTRACTOR DOING WORK ON THIS PROJECT. NO LESS THAN 3 DAYS NOTICE WILL BE GIVEN FOR SAID MEETING.

1.13 DESIGN MIXES: SUBCONTRACTORS PROVIDING ASPHALTIC CONCRETE PAVING, BASE AGGREGATE AND ANY KIND OF PORTLAND CEMENT CONCRETE REQUIRED FOR THRUST BLOCKS, POST FOOTINGS AND PIPELINE ENCASEMENTS, SHALL PROVIDE DESIGN MIXES TO THE CITY FOR APPROVAL PRIOR TO COMMENCING ANY WORK INCORPORATING SUCH MATERIALS. SAID MIX DESIGNS SHALL BE THE PRODUCT OF AND INDIVIDUAL QUALIFIED AND LICENSED TO PROVIDED SUCH SERVICES AND WHEN APPROVED BY THE CITY, SHALL BECOME A REQUIREMENT OF THESE SPECIFICATIONS TO THE SAME EXTENT AS IF FULLY SET OUT HEREIN.

1.14 EXISTING UTILITIES: UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED WITH AS MUCH CARE AS POSSIBLE WITH THE AID OF AVAILABLE RECORDS. HOWEVER THE LOCATIONS SHOWN MUST BE CONSIDERED APPROXIMATE ONLY. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL UTILITY COMPANIES AND SHALL LOCATE ALL LINES ACCURATELY BY EXCAVATION AND MEASUREMENT. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CALL THE 1-800-227-2600 ALERT NUMBER

1.15 SAFETY: THE CONTRACTOR SHALL PROVIDE ALL MEANS AND DEVICES NECESSARY AND/OR REQUIRED TO PROTECT HIS EMPLOYEES AND ALL OTHERS FROM INJURY OR DAMAGE INCLUDING BUT NOT LIMITED TO: TRENCH, SHORING, TRAFFIC BARRICADES, LIGHTING, FLAGMEN, WARNING DEVICES, JOB COORDINATION AND SUPERVISION. ALL COORDINATION, EQUIPMENT, AND OTHER LABOR REQUIRED FOR DETOUR SHALL BE PROVIDED BY THE CONTRACTOR.

#### EARTHWORK

2.01 CLEARING: ALL AREAS OF THE WORK SHALL BE CLEARED OF OBSTRUCTIONS AND GRUBBED TO A DEPTH OF NO LESS THAN EIGHT (8) INCHES. VEGETATION SHALL BE REMOVED AND HOLES AND DEPRESSIONS SHALL BE FILLED WITH COMPACTED EARTH. DEBRIS, VEGETATION AND OTHER DELETERIOUS MATTER NOT SUITABLE FOR INCORPORATION INTO EARTH FILLS AND EMBANKMENTS SHALL BE REMOVED FROM THE SITE OF WORK AND DISPOSED OF BY THAT SUBCONTRACTOR WHOSE WORK HAS GENERATED SAME.

2.02 GRADING: THE FINISHED SURFACES OF LOTS, BUILDING PADS AND PARKWAYS SHALL BE BROUGHT TO THE ELEVATIONS SHOWN OR INDICATED ON THESE DRAWINGS. ALL EXCAVATIONS, WATERING, BACKFILL AND EMBANKMENT WORK REQUIRED TO COMPLETE SUCH GRADING SHALL CONFORM TO THE RECOMMENDATIONS OF THE SOILS REPORT REFERENCED ON THESE DRAWINGS. IMPORTED EARTH, IF REQUIRED, SHALL BE TESTED AND APPROVED AS SUITABLE FOR INCORPORATION INTO THE WORK BY THE SAME TESTING FIRM THAT FURNISHED REFERENCED SOILS REPORT. SURPLUS EARTH SHALL BE REMOVED AND DISPOSED OF AS REQUIRED FOR DEBRIS; EXCEPT WHERE THE DRAWINGS SHOW OR INDICATE AN AREA FOR DISPOSAL OF SURPLUS EARTH, ALL EARTH SUITABLE FOR INCORPORATION INTO FILLS AND EMBANKMENTS SHALL UNIFORMLY SPREAD AND WATERED OVER SAID AREA.

THE FINISHED SURFACE OF GROUND AFTER COMPLETION OF GRADING SHALL BE WITHIN PLUS (HIGH) OR MINUS (LOW) 0.10 FOOT OF ELEVATIONS SHOWN ON THESE DRAWINGS; EXCEPT, THE INVERT OF DRAINAGE SWALES AND THE SURFACE OF BUILDING PADS SHALL BE WITHIN PLUS 0.05 OR MINUS 0.10 FOOT. LOT LINE SWALES SHALL BE ROUGH GRADED BEFORE BUILDINGS PERMITS ARE APPROVED AND FINISH GRADED BEFORE OCCUPANCY IS PERMITTED. THE ELEVATION OF FINISHED GROUND SURFACE BETWEEN ELEVATION SET OUT ON THESE DRAWINGS SHALL BE THAT OBTAINED BY STRAIGHT—LINE INTERPOLATION.

2.03 BUILDING PADS: AREAS IDENTIFIED ON THESE DRAWINGS AS BUILDINGS PAD SHALL BE WATERED, EXCAVATED, BACKFILLED, COMPACTED, GRADED AND OTHERWISE PREPARED AS NECESSARY TO BRING SUBSOILS, SURFACE SOILS AND FILL SOILS WITH THE LIMITS OF MOISTURE AND DENSITY CALLED FOR IN THE SOILS REPORT REFERENCED IN THESE DRAWINGS. SUCH WORK SHALL BE TESTED AND CERTIFIED BY THE SAME TESTING FIRM THAT PREPARED THE REFERENCED SOILS REPORT AS ACCEPTABLE AND APPROVED FOR CONSTRUCTION OF HOUSE FOUNDATIONS AND PUBLIC IMPROVEMENTS THEREON. THE MOISTURE CONTENT AND DENSITY OF COMPLETED AND APPROVED BUILDING PADS SHALL BE MAINTAINED UNTIL HOUSE FOUNDATIONS ARE IN PLACE.

2.04 SOIL STERILANT: WHERE PLANS OR DETAILS CALL FOR SOILS STERILANT, SUBCONTRACTORS SHALL FURNISH AND APPLY, AS ALLOWED BY ALL APPLICABLE REGULATIONS, DIURON, 334 DICHLOROPHENAL — 1, 1 DIMETHAL UREA AT A RATE OF TEN (10) POUNDS PER ACRE. THE STERILANT SHALL BE EQUAL TO THAT MANUFACTURED BY DUPONT AS KARMEX, A WETABLE POWDER, RECOMMENDED FOR THE CONTROL OF WEEDS ALONG IRRIGATION DITCHES. CONTRACTOR TO SUBMIT "CERTIFICATION OF STERILIZATION" TO THE BUILDING AND ENGINEERING DEPARTMENTS PRIOR TO COMMENCING NEXT PHASE OF WORK.

2.05 ROADWAY EXCAVATIONS: ALL EXCAVATIONS WITHIN TEN (10) FEET OF AN ESTABLISHED PUBLIC ROADWAY SHALL BE FILLED AND COMPACTED AT THE END OF EACH WORK DAY. LIKEWISE, PILES OF MATERIAL WITHIN TEN (10) FEET OF AN ESTABLISHED PUBLIC ROADWAY SHALL BE LEVELED OF GRADED FLUSH. WHERE EXCAVATIONS FOR PAVING WORK ARE MADE ADJACENT TO EXISTING TRAVELWAYS, SUCH EXCAVATIONS SHALL BE BACKFILLED WITH COMPACTED CLASS 2 AGGREGATE BASE TO TOP OF EXISTING PAVEMENT OR GRADE, SLOPING AWAY THEREFROM AT A SLOPE SAFE FOR PASSING VEHICLES. IN NO CASE SHALL SAID SLOPE BE STEEPER THAN 20 HORIZONTAL TO 1 VERTICAL (20:1). FILLS NEAR ROADWAYS SHALL BE MAINTAINED FLUSH WITH PAVEMENT, FREE OF LOOSE SURFACE MATERIAL, CONTINUOUSLY, DAY AND NIGHT, UNTIL THE FINAL SURFACE PAVEMENT IS IN PLACE.

2.06 COMPACTION: WHERE IN THESE DRAWINGS AND IN THESE SPECIFICATIONS COMPACTION IS CALLED OUT TO BE 90% OF MAXIMUM, PLUS OR MINUS 3% SUCH SHALL BE INTERPRETED TO MEAN THAT TEST OF COMPACTION SHALL AVERAGE AT LEAST NINETY PERCENT (90%) AND NONE LESS THAN EIGHTY—SEVEN PERCENT (87%). ALSO, IN NO CASE SHALL THREE CONSECUTIVE TESTS OF COMPACTED EARTH WORK BE LESS THAN NINETY PERCENT (90%).

2.07 CLEAN-UP: BEFORE OCCUPANCY OF HOUSES IS PERMITTED, THE ENTIRE WORK SITE SHALL BE CLEANED OF ALL DEBRIS AND REFUSE THAT WOULD MAKE THE AREA UNSAFE OR UNSIGHTLY.

2.08 TESTING LAB REPORT: A SOILS REPORT WAS PREPARED FOR THE SUBJECT PROJECT. ALL EARTH AND SOILS WORK SHALL CONFORM TO THE RECOMMENDATIONS THEREOF. A COPY OF SAID REPORT MAY BE REVIEWED AT THE OFFICE OF THE ENGINEER.

2.09 IMPORTED EARTH FILL: IF THE WORK REQUIRES THE TRANSPORTATION OF EARTH FILL. THE CONTRACTOR SHALL, BEFORE COMMENCING IMPORT WORK, DESIGNATE HIS SOURCE AND ALLOW FOR TESTING AND APPROVAL BY THE TESTING LAB. ALL IMPORT SHALL BE SUBJECT TO THE APPROVAL OF OWNER OR HIS AUTHORIZED TESTING LABORATORY.

2.10 FINISHED GRADING: THE FINAL ELEVATION OF GROUND SURFACE ON TOP OF BUILDING PAD SHALL BE WITHIN PLUS OR MINUS 0.10 FT. AND WITHIN 0.05 FT FOR DRAINAGE SWALES OR THAT INDICATED ON THE LOTS GRADING PLAN. THE FINISHED SURFACE SHALL BE FREE OF CLODS AND ROCKS LARGER THAN 2 INCHES, SHALL BE UNIFORM IN APPEARANCE AND TEXTURE AND MADE SUITABLE FOR GROWING AND MAINTAINING GRASS.

2.11 BEFORE THE ISSUANCE OF BUILDING PERMITS, EARTHWORK AND/OR GRADING SHALL BE CERTIFIED THROUGH A STAMPED LETTER, SIGNED BY THE REGISTERED ENGINEER WITH SOILS TEST REPORTS ATTACHED, STATING THE

THAT WORK IS IN COMPLIANCE WITH THE ORIGINAL SOILS REPORT STATED ON PLANS OF THE SUBDIVISION FINAL MAP, OR THAT WORK IS IN COMPLIANCE WITH AN AMENDMENT TO THE ORIGINAL SOILS STUDY REPORT, OR THAT WORK IS IN COMPLIANCE WITH AN UPDATED AND DIFFERENT SOILS REPORT FROM THAT STATED OF THE SUBDIVISION FINAL MAP. A COPY OF SAID LETTER WITH SOILS TEST REPORT SHALL BE SUBMITTED TO THE BUILDING AND ENGINEERING DEPARTMENTS.

2.12 BEFORE THE ISSUANCE OF BUILDING PERMITS, 4 ELEVATIONS READING WITHIN EACH BUILDING PAD SHALL BE CERTIFIED THROUGH A SKETCH STAMPED AND SIGNED BY A REGISTERED ENGINEER. COPY OF SAID SKETCH SHALL BE SUBMITTED TO THE BUILDING AND

ENGINEERING DEPARTMENT.

2.13 BEFORE THE ISSUANCE OF CERTIFICATIONS OF OCCUPANCIES: LOTS FINISHED GRADING SHALL BE SUITABLE AND PROPERLY DONE FOR LOTS TO DRAIN AS CALLED ON DRAWINGS PLANS. A CERTIFICATION LETTER STAMPED AND SIGNED BY A REGISTERED ENGINEER SHALL BE SUBMITTED TO THE BUILDING AND ENGINEERING DEPARTMENT.

2.14 IN ADDITION TO THE SPECIFICATIONS INCLUDED HEREIN ON THESE IMPROVEMENT DRAWINGS, THE CONTRACTOR AND/OR SUBCONTRACTOR SHALL ALSO FOLLOW THOSE SPECIFICATIONS FROM THE 1997 UBC SECTIONS 3304-3318 PERTAINING TO EARTHWORK AND GRADING.

#### 3. WATER. SEWER. AND STORM DRAIN

3.01 SEWER: SEWER PIPE SHALL BE COMPOSED OF POLYVINYL CHLORIDE (PVC) PLASTIC GRAVITY SEWER PIPE WITH INTEGRAL WALL BELL AND SPIGOT JOINTS MEETING THE REQUIREMENT OF ASTM D3034 FOR SDR 35 PVC.

MANHOLES FOR SEWER PIPLINES SHALL BE OF PRECAST, REINFORCED CONCRETE CONFORMING TO SECTION 70–1.02H.

CONCRETE FOR MANHOLE BASES SHALL BE NO LESS THAN CLASS B, 3000 PSI CONFORMING TO SECTIONS 90–10.01 THRU 90–10.05 OF THE STANDARD SPECIFICATIONS AS MINOR CONCRETE. FRAME AND COVER SETS FOR MANHOLE ACCESS AND VENTING SHALL BE OF HEAVY—DUTY, TRAFFIC BEARING, MATCHED CAST IRON COMPONENTS EQUAL TO THAT MODEL AND MANUFACTURER INDICATED IN DRAWING DETAILS. SEWER PIPE INSTALLATION SHALL CONFORM TO SECTIONS 64–1.05 THRU 64–1.07.

SDR-35 POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS CONFORMING TO AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATION D-3034 MAY BE USED. JOINTS SHALL BE OF THE RUBBER GASKETED, HUB AND SPIGOT DESIGN CONFORMING TO ASTM SPECIFICATION D-3212. PIPE STIFFNESS SHALL BE NO LESS THAN 46 PSI. INSTALLATION OF PVC SEWER PIPE SHALL CONFORM TO ASTM SPECIFICATION D-2321, THESE DRAWINGS AND THE MANUFACTURER'S PRINTED RECOMMENDATIONS.

WATER: WATER PIPE SHALL BE CLASS 150, POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO AWWA STANDARD C900. ALL PIPE SHALL BE OF THE SAME MANUFACTURER. FITTINGS FOR WATER PIPE SHALL BE CEMENT OR EPOXY LINED, DUCTILE IRON CONFORMING TO AWWA STANDARDS C-111 AND C-153, WITH FLANGED-END FITTINGS AND FLANGE BY MECHANICAL JOINT ADAPTERS WHERE CONNECTED DIRECTLY TO PIPE. ALL FITTINGS. INCLUDING BURY-ELLS AT FIRE HYDRANTS, SHALL BE INSTALLED WITH CONCRETE THRUST BLOCKS AS RECOMMENDED BY MANUFACTURER OF PIPE FOR CLAY SOILS CONDITIONS. CONCRETE FOR THRUST BLOCKS SHALL BE NO LESS THAN CLASS C, 2000 PSI, SHALL CONFORM TO SECTIONS 90-10.01 THRU 90-10.05 OF THE STANDARD SPECIFICATIONS AND AND SHALL BEAR AGAINST FIRM, UNDISTURBED SOIL. VALVES FOR WATER PIPE SHALL BE CLASS 150 RESILIENT WEDGE TYPE GATE VALVES, EPOXY COATED INSIDE AND OUT, DESIGN FOR DIRECT BURY SERVICE AND CONFORMING TO AWWA C-509. GATE VALVES TO BE FLANGE BY MECHANICAL JOINT, CONNECTED DIRECTLY TO THE FITTINGS, VALVES TO BE RESTRAINED FROM MOVEMENT BY THE INSTALLATION OF CONCRETE THRUST BLOCKS. THRUST BLOCKS NEED NOT BE PROVIDED WHERE JOINT RESTRAINT DEVICES ARE SHOWN OR CALLED FOR IN LIEU THEREOF. SAID VALVE SHALL BE INSTALLED COMPLETE WITH A CAST-IRON VALVE BOX AND PIPE RISER AS DETAILED ON DRAWINGS. FIRE HYDRANTS SHALL BE OF THE MODEL AND MANUFACTURER INDICATED ON DRAWINGS AND SHALL CONFORM TO AWWA STANDARD C-503. ALL BOLTS USED IN BOLTED, UNDERGROUND PIPELINE CONNECTIONS AND CONNECTIONS OF FIRE HYDRANTS TO THE BURY-ELL, SHALL BE OF STAINLESS STEEL APPROVED BY THE CITY. POLYETHYLENE ENCASEMENTS FOR ALL UNDERGROUND, BOLTED FITTINGS AND VALVES SHALL BE PROVIDED

3.03 STORM DRAIN; STORM DRAIN PIPES SHALL BE OF REINFORCED CONCRETE PIPE (RCP) CONFORMING TO SECTION 65–1.02A OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE NOTED IN DRAWINGS DETAILS, STORM DRAIN PIPE SHALL BE NO LESS THAN CLASS III. JOINTS SHALL BE OF THE RUBBER-GASKETED TYPE. STORM DRAIN MANHOLES SHALL BE THE SAME AS REQUIRED HEREIN FOR SEWER; STORM DRAIN INLETS SHALL BE OF REINFORCED CONCRETE, CAST-IN-PLACE OR PRECAST, CONFORMING TO SECTIONS 51–1.01, 51–1.05, 51–1.07, 51–1.09 AND 51–1.18 OF THE STANDARD SPECIFICATIONS. ALL STORM DRAIN PIPE SHALL BE INSTALLED AND TESTED AS SIPHON PIPE IN ACCORDANCE WITH SECTION 65–1.03, 65–1.07 AND 65–1.08 OF THE STANDARD SPECIFICATIONS.

IN LIEU OF REINFORCED CONCRETE PIPE (RCP) AS HEREIN SPECIFIED, POLYVINYL CHLORIDE (PVC) AND/OR ADS—HDPE PIPE AND FITTINGS CONFORMING TO ASTM SPECIFICATION F—794 FOR LARGE DIAMETER RIBBED GRAVITY STORM DRAIN PIPE AND FITTINGS BASED ON A CONTROLLED INSIDE DIAMETER MAY BE USED. JOINTS SHALL BE OF THE RUBBER GASKETED, HUB AND SPIGOT DESIGN CONFORMING TO ASTM SPECIFICATION D—3212. PVC STORM DRAIN PIPE SHALL BE INSTALLED IN FULL CONFORMANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND THESE DRAWINGS AND SHALL BE SUBJECT TO THE SAME TEST FOR WATER TIGHTNESS AS REQUIRED FOR RCP. STORM DRAIN PVC SMALLER THAN 18" DIAMETER SHALL BE THE SAME AS REQUIRED FOR THE PVC SEWER PIPE.

TRENCH BACKFILL: SAND FOR PIPE ZONE BACKFILL AND BEDDING

FREE OF VEGETABLE MATTER AND DEBRIS, 100% PASSING THE 1" MESH SIEVE, HAVING A SAND EQUIVALENT NO LESS THAN 35. SAID BACKFILL AND BEDDING SHALL BE COMPACTED TO DENSITY OF NO LESS THAN 95% OF MAXIMUM @ ± 2% OPTIMUM MOISTURE.

OTHER BACKFILL SHALL BE FINELY PULVERIZED EARTH TAKEN FROM TRENCH EXCAVATIONS, WETTED, PROCESSED AND COMPACTED TO A MINIMUM DENSITY 90% OF MAXIMUM MOISTURE CONTENT IN EARTH BACKFILL AT COMPLETION OF WORK SHALL NOT EXCEED OPTIMUM PLUS EIGHT (8) PERCENT. ALL TRENCH BACKFILL SHALL BE TESTED TO INSURE CORRECT COMPACTION. TESTS SHALL BE MADE NOT EXCEEDING MORE THAN 1.0 FEET OF BACKFILL DEPTH AND FOR EVERY 300 FEET OF TRENCH LENGTH.

OF PIPE SHALL BE NO LESS THAN SCREENED, PIT RUN GRANULAR MATERIAL

ALL NATIVE SOIL BACKFILL SHALL CONTAIN NO ROCKS LARGER THAN 3 IN.
AND SHALL BE FREE OF CLODS, BROKEN PAVEMENT OR CONCRETE NOR SHALL
IT CONTAIN ANY VEGETATION OR DEBRIS. NATIVE SOIL BACKFILL SHALL BE
COMPACTED TO A DENSITY OF NO LESS THAN 90% AND NO MORE THAN 93% PER
TEST METHOD CALIFORNIA ASTM D1557. GRANULAR MATERIAL SHALL BE COMPACTED
TO A DENSITY OF NO LESS THAN 95% UPPER SIX (6) INCHES OF BACKFILL
UNDER PAVEMENT, SIDEWALK OR DRIVEWAYS SHALL BE PREPARED AS
SUBGRADE. TEST SHALL BE DONE ON ALL BACKFILL ON MAIN LINES AND
SERVICE LATERALS; 2 TESTS EVERY 300' AND ON EACH 1' LAYER OF
BACKFILL, ALSO AROUND CONCRETE MANHOLES, BOTTOM OF CATCH BASINS AND
ON WATER AND SEWER SERVICE LATERALS SHALL BE TESTED FOR COMPACTION.

CONNECTIONS AND DISINFECTIONS: CONNECTIONS OF SEWER AND STORM DRAIN PIPE CALLED FOR ON THESE DRAWINGS TO EXISTING SYSTEMS OR FACILITIES, INCLUDING OPEN DRAIN DITCHES, SHALL BE AS DIRECTED BY AND UNDER THE SUPERVISION OF THE CITY OR OTHER AGENCY HAVING JURISDICTION OVER THAT EXISTING SYSTEM OF FACILITY, CONNECTION OF WATER PIPE WORK TO EXISTING CITY WATER SYSTEMS SHALL BE UNDER DIRECT SUPERVISION OF THE CITY. BEFORE CONNECTION, ALL WATER PIPE AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-601-81. BACTERIOLOGICAL TESTING SHALL BE PERFORMED AND CERTIFIED BY A STATE LICENSED LABORATORY. LIQUID CHLORINE SHALL BE USED FOR THE WATER LINE DISINFECTANT. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO AND APPROVED BY THE CITY AND DEVELOPER BEFORE WORK ON WATER PIPE CONNECTIONS IS REQUESTED. ALL PIPE FITTINGS AND MATERIAL REQUIRED FOR CONNECTIONS SHALL BE FURNISHED BY THE SUBCONTRACTOR. THE LINE SHALL BE OPENED FOR THE SERVICES BY THE CITY WATER DEPARTMENT UPON NOTIFICATION.

3.06 SERVICES: NO LESS THAN ONE WATER SERVICE AND ONE SEWER SERVICE SHALL BE INSTALLED PER LOT WITHIN THE DEVELOPMENT. THE LOCATION OF SAID SERVICES SHALL BE PER THE INSTRUCTIONS OF THE OWNER. PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS THE OWNER SHALL SUBMIT A LIST OF WATER AND SEWER SERVICES LOCATION SHOWING THE STATIONING OR LOCATION OF EACH LOT.

3.07 TILE DRAIN LINES: WHERE NEW PIPELINES TRENCHES OR OTHER EXCAVATIONS CUT EXISTING UNDERGROUND TILE DRAIN PIPES, REMOVE NO LESS THAN 2'-0" AND PLUG BOTH EXPOSED PIPE ENDS WITH CONCRETE OR OTHER PERMANENT MATERIAL TO MAKE A WATER TIGHT SEAL. THE LOCATION AND DEPTH OF ALL TILE DRAINS SO CUT AND PLUGGED SHALL BE SHOWN ON AS-BUILT DRAWINGS OF THE WORK REQUIRING SAME.

3.08 RIM AND COVER ELEVATIONS: MANHOLE RIM ELEVATIONS NOTED ON THESE PLANS FOR STANDARD MANHOLES ARE APPROXIMATE ONLY AND ARE PROVIDED TO ALLOW SUBCONTRACTOR TO ESTIMATE MATERIALS. UPON COMPLETION OF ASPHALT PAVING, RIMS SHALL BE ADJUSTED TO FINAL GRADE AND ELEVATION TO MATCH FINISHED SURFACE OF ASPHALT WITHIN PLUS OR MINUS 1/8 INCH. VALVE BOXES AND COVERS SHALL LIKEWISE BE ADJUSTED TO GRADE AND ELEVATION. REINFORCED CONCRETE RINGS NO LESS THAN 1 FOOT LARGER THAN MANHOLE FRAME OR VALVE COVER AND NO LESS THAN 8 INCHES DEEP MAY BE INSTALLED IN LIEU OF PLACING HOT MIXED ASPHALT TO PATCH PAVEMENT AROUND THE ADJUSTED FRAME OR COVER.

3.09 SPECIAL MANHOLES: WHERE THE DIFFERENCE IN ELEVATION BETWEEN TO OF THE LARGEST PIPE IN MANHOLE AND THE MANHOLE COVER RIM IS LESS THAN 4'-6", "SPECIAL MANHOLES" SHALL BE INSTALLED. WHERE SAID DIFFERENCE IS LESS THAN 6'-6", BUT MORE THAN 4'-6", STANDARD MANHOLES WITH FLAT TOPS SHALL BE INSTALLED. WHERE SAID DIFFERENCE IS MORE THAN 6'-6", STANDARD MANHOLES SHALL BE INSTALLED.

3.10 PRESSURE SEWER: SEWAGE PRESSURE PIPE WHEN CALLED FOR ON THESE DRAWINGS SHALL BE CLASS 200 PSI (SDR21) POLYVINYL CHLORIDE (PVC) PIPE MADE IN STANDARD THERMOPLASTIC PIPE DIMENSION RATIOS AND PRESSURE RATED, ALL IN ACCORDANCE WITH ASTM STANDARD D-2241. FITTINGS SHALL BE OF THE SAME MATERIAL AS PIPE OF THE LONG SWEEP (RADIUS) DESIGN. JOINTS SHALL BE OF THE RUBBER GASKETED, INTEGRAL BELL-AND-SPIGOT DESIGN. CONCRETE THRUST OR ANCHOR BLOCKS SHALL BE PROVIDED AT AL CHANGES IN ALIGNMENT. INSTALLATION SHALL CONFORM TO ASTM STANDARD D-2321 AND THESE DRAWINGS. TRENCH, BACKFILL AND TESTING REQUIREMENTS SHALL BE THE SAME AS REQUIRED IN THESE SPECIFICATIONS FOR WATER PIPE.

3.11 PIPELINE TESTING: PLASTIC WATER, SEWER AND STORM DRAIN PIPING SHALL BE INSTALLED, BACKFILL AND TESTED IN ACCORDANCE WITH THESE SPECIFICATIONS, THE PUBLISHED STANDARDS AND REQUIREMENTS OF THE CITY AND THE PRINTED INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER OF PIPE. WHERE CONFLICTS OCCUR, THE MOST STRINGENT PROVISION SHALL APPLY. SEWER PIPE TESTING LENGTHS SHALL BE LIMITED TO A MAXIMUM OF 600 FT.; AND, THE MINIMUM TEST PRESSURE FOR WATER PIPE SHALL BE 150 PSI. CONTRACTOR SHALL SUBMIT WRITTEN INSTRUCTIONS AND/OR MANUFACTURER'S SPECIFICATIONS FOR THE TESTING PROCEDURES FOR THE WATER, SEWER AND STORM DRAIN LINES PRIOR TO COMMENCING WORK.

ALL STORM WATER, IRRIGATION WATER, SIMILAR PIPE SHALL BE INSTALLED AND TESTED AS CULVERT PIPE AS SET OUT IN SECTIONS 65-1.03 THRU 65-1.08; EXCEPT PIPE LESS THAN TEN (10) FEET DEEP TO INVERT MEASURED FROM FINISHED SURFACE OF STREET OF GROUND AT HIGHEST POINT IN SIPHON SHALL BE TESTED AS REQUIRED FOR SEWER PIPE.

3.12 WATER SUPPLY: NO WATER SHALL BE SUPPLIED TO NEW PIPELINES FROM THE CITY'S EXISTING POTABLE WATER SYSTEMS UNTIL CITY HAS RECEIVED AND APPROVED COPIES OF ALL PRESSURE, BACTERIOLOGICAL AND CHLORINE RESIDUAL TESTING RESULTS. ONLY AUTHORIZED EMPLOYEES OF CITY SHALL OPERATE VALVES THAT ALLOW THE SUPPLY OF POTABLE WATER TO NEW PIPELINES TO COMMENCE. NEW PIPELINES SHALL ALSO BE FLUSHED BEFORE CONNECTIONS TO EXISTING SYSTEMS.

#### 4. STREET WORK

CONCRETE: CONCRETE CURBS, SIDEWALKS AND GUTTERS SHALL CONFORM TO SECTIONS 73-1.01 THRU 73-1.06 OF THE STANDARD SPECIFICATIONS. WEAKENED PLANE AND EXPANSION JOINTS SHALL BE LOCATED, SPACED AND SEALED AS DETAILED ON THESE DRAWINGS. ALL CONCRETE SHALL BE FURNISHED WITH A "CERTIFICATE OF COMPLIANCE" CONFORMING TO THESE SPECIFICATIONS. UNLESS OTHERWISE SHOWN OR DETAILED, ALL CONCRETE SHALL BE CLASS "B" SHALL CONTAIN NOT LESS THAN 564 POUND OF PORTLAND CEMENT PER CUBIC YARD AND SHALL ATTAIN A COMPRESSIVE STRENGTH OF NO LESS THAN 4500 PSI WITHIN 28 DAY OF PLACEMENT PER ASTM C-192. SLUMP AT TIME OF PLACEMENT SHALL NOT EXCEED 4 INCHES. CURING SHALL BE BY APPLICATION OF A PIGMENTED CURING COMPOUND TO ALL EXPOSED SURFACES AND THE FORMED EDGES OF WALKS, DRIVEWAYS AND GUTTERS WHERE FORM HAVE BEEN REMOVED. ALL 4500 PSI CONCRETE SHALL CONTAIN NO LESS THAN 6 SACKS PER CUBIC YARD AND HAVING A WATER-TO-CEMENT RATIO OF NO MORE THAN 0.45 BY WEIGHT. EXPANSION AND WEAKENED PLANE JOINTS SHALL BE INSTALLED AND SEALED IN ALL CONCRETE CURBS, GUTTERS, CROSS-GUTTERS, RAMPS, SIDEWALKS AND DRIVEWAYS AS DETAILED ON THESE DRAWINGS AND AS HEREIN SPECIFIED. SIDEWALKS JOINTS TO BE SEALED SHALL BE SEALED WITH A PREMIUM GRADE,

ONE-COMPONENT, POLYURETHANE NON-SAG ELASTOMERIC SEALANT EQUAL TO SIKAFLEX-15 LM. SEALANT SHALL BE APPLIED TO GUTTER JOINTS AS SHOWN IN DETAILS AND ALL SIDEWALK JOINTS IN THE VICINITY OF DRIVEWAYS. CONTRACTION JOINTS SHALL BE PLACED AT 10'-0" ON CENTERS AND EXPANSION JOINTS SHALL BE PLACED AT 40'-0" ON CENTERS AND ALL CONNECTIONS WITH STRUCTURES, CURB RETURNS, HANDICAP RAMPS AND DRIVEWAYS. TOOLED JOINTS IN SIDEWALKS SHALL BE SPACED 4'-0" ON CENTERS.

4.02 SUBGRADE: SUBGRADE FOR ALL STREET WORK SHALL BE UNIFORM AND COMPACTED TO A DENSITY OF NO LESS THAN 90% OF MAXIMUM FOR A DEPTH OF AT LEAST TWELVE (12) INCHES BELOW BOTTOM OF CONCRETE OR BASE MATERIAL TO BE PLACED. SUBGRADE SHALL BE FINISHED TO WITHIN PLUS (HIGH) 0.00 FOOT, OR MINUS (LOW) 0.10 FOOT OF DESIGN SURFACE SHOWN OR INDICATED BY THESE DRAWINGS. MOISTURE IN SUBGRADE MATERIAL AT TIME OVERLAYING CONCRETE OR BASE MATERIAL FOR STREETS SHALL BE BETWEEN 4-8% CLAYS AND 0-4% SILTS ABOVE OPTIMUM. NO LESS THAN ONE DENSITY TEST SHOWING COMPLIANCE OF THE WORK WITH THESE SPECIFICATIONS SHALL BE PROVIDED FOR EACH 5000 SQ. FT. OF SUBGRADE AREA CONSTRUCTED.

SUBGRADE FOR STREET, CURB AND GUTTERS, SIDEWALKS AND DRIVEWAYS SHALL BE UNIFORM COMPACTED TO A RELATIVE COMPACTION OF NO LESS THAN 90% FOR A DEPTH OF NO LESS THAN 12 INCHES AND SHALL BE FINISHED WITH NO HIGH GRADES, OR MINUS 0.10 FT. (LOW) OF THE THEORETICAL GRADE INDICATED ON THE PLANS. THE MOISTURE CONTENT SHALL BE AT TIME OF TESTING AND AT TIME OF PLACEMENT OF OVERLAYING WORK, NO LESS THAN OPTIMUM PLUS 4%, SOAKING OF SUBGRADE FOR SIDEWALKS AND DRIVEWAYS IS ALSO RECOMMENDED PRIOR PLACING OF CONCRETE.

4.03 GROUND STERILIZATION: EACH 100 SQ. FT. OF BASE AREA UNDER ASPHALT PAVING SHALL BE TREATED WITH 2.5 LB OF MONOBOR-CHLORATE GRANULAR WEED KILLER. CONTRACTOR TO SUBMIT "CERTIFICATION OF STERILIZATION" TO THE BUILDING AND ENGINEERING DEPARTMENTS PRIOR TO COMMENCING NEXT PHASE OF WORK.

4.04 AGGREGATE BASE: AGGREGATE BASE FOR STREET PAVING AND ASSOCIATED FACILITIES SHALL BE CLASS 2 CONFORMING TO SECTIONS 26-1.01 THRU 26-1.02B, 26-1.04 AND 26-1.05 OF THE STANDARD SPECIFICATIONS; EXCEPT, MOTOR GRADERS MAY BE USED FOR SPREADING AND SHAPING MATERIAL SO LONG AS SERIOUS SEGREGATION DOES NOT OCCUR. THE FINISHED SURFACE OF BASE JUST PRIOR TO PLACEMENT OF OVERLAYING ASPHALTIC OR PORTLAND CEMENT CONCRETE SHALL BE WITHIN PLUS (HIGH) 0.05 FOOT OR MINUS (LOW) 0.05 FOOT OF DESIGN SURFACE INDICATED ON THESE DRAWINGS. ALL BASE AGGREGATE SHALL BE FURNISHED WITH A "CERTIFICATE OF COMPLIANCE", NO RECYCLED MATERIALS WILL BE ALLOWED. TESTING OF IN PLACE MATERIAL FOR COMPACTION SHALL BE AS REQUIRED FOR SUBGRADE.

ASPHALTIC CONCRETE: UNLESS OTHER MATERIALS ARE SPECIFIED BY CONSTRUCTION NOTES OR IN THE SPECIFIC DETAILS. THE ASPHALTIC CONCRETE (AC) PAVING SHALL BE TYPE "A" CONFORMING TO SECTION 39-1.01 THRU 39-3.05D OF THE STANDARD SPECIFICATIONS. AGGREGATE GRADATION AND ASPHALTIC BINDER CONTENT SHALL BE AS REQUIRED BY CITY: (3/4" MAX) EXCEPT, IN NO CASE SHALL PERCENT OF BINDER BE LESS THAN 5% OF TOTAL WEIGHT OF MIX. CONSTRUCTION: WHERE THE PAVEMENT THICKNESS IS GREATER THAN 0.30 FOOT YOU MAY PLACE TYPE A HMA IN MULTIPLE LIFTS NOT LESS THAN 0.15 FOOT EACH, BOTTOM LIFT SHALL BE 3/4" GRADATION AND TOP LIFT SHALL BE 1/2" GRADATION MAX. ACCORDING TO SECTION 39-2.02C. ALL ASPHALT PAVING SHALL BE FOG SEALED AFTER COMPLETION IN WITH SECTIONS 37-1.01 THRU 37-5.04. ASPHALT PAVING DENSITY AFTER COMPACTION SHALL BE NO LESS THAN 141 POUNDS PER CUBIC FOOT. ALL ASPHALT SHALL BE FURNISHED WITH A "CERTIFICATE OF COMPLIANCE" CONTRACTOR TO SUBMIT A CERTIFIED ASPHALT MIX DESIGN. NO RECYCLED MATERIALS WILL BE ALLOWED.

4.06 PAVING JOINTS: WHERE NEW PAVING JOINTS EXISTING, INCLUDING AREAS WHERE MUST BE REMOVED AND REPLACED FOR PIPE LINE OR OTHER IMPROVEMENT EXCAVATION SUFFICIENT AREAS OF THE EXISTING PAVING SHALL BE REMOVED TO INSURE THAT A SMOOTH TRANSITION BETWEEN THE OLD AND NEW SURFACES RESULTS. THE NEW PAVEMENT SECTION SHALL BE EQUAL TO THAT REMOVED; EXCEPT, IN NO CASE SHALL THE NEW PAVING BE LESS THAN THAT CALLED FOR, SHOWN OR REQUIRED BY THESE DRAWINGS FOR NEW PAVEMENT CONSTRUCTION.

4.07 SIGNS AND MARKERS: BLUE HYDRANT REFLECTORS SHALL BE INSTALLED ON ALL STREET WHERE FIRE HYDRANTS ARE INSTALLED REFLECTORS SHALL BE LOCATED OPPOSITE HYDRANT JUST OFF CENTER OF STREET TOWARDS HYDRANT, ADDITIONALLY CURB SHALL BE PAINTED RED 10 FEET BOTH SIDES FROM FIRE HYDRANT. STREET/STOP SIGNS SHALL BE PROVIDED AT INTERSECTIONS WHERE THESE DRAWINGS SO INDICATE. SIGNS TYPE AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PUBLISHED CITY STANDARDS. SAID SIGNS SHALL BE OF EXTRUDED BLADE ALUMINUM, 4-WAY, TOP-OF-POLE, TYPE. THEY SHALL BE INSTALLED COMPLETE WITH 12 INCH DIAMETER BY 36 INCH DEEP CONCRETE FOOTING. HEIGHT OF SIGNS ABOVE GROUND SHALL BE 7' FROM TOP OF SIDEWALK.

#### 5. MISCELLANEOUS

5.01 CHAIN LINK FENCING: FENCING WHERE CALLED FOR ON THESE DRAWINGS SHALL BE 6 FT. HIGH CHAIN LINK ON 2" DIAMETER ROUND GALVANIZED STEEL POSTS. EXCEPT AS HEREIN PROVIDED, ALL MATERIAL AND WORKMANSHIP SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTIONS 80-4.01 THRU 80-4.02 OF THE STANDARD SPECIFICATIONS. FOOTINGS SHALL BE NO LESS THAN 12" DIAMETER AND 36" DEEP. PIPE POSTS SHALL BE EMBEDDED NO LESS THAN 34" INTO FOOTINGS. WIRE FOR ALL CHAIN LINK FABRIC SHALL BE NO LESS THAN 9 GAUGE. WHERE PLANS CALL FOR SCREEN FENCING, 1/4" X 2" CLEAR REDWOOD SLATS, VERTICALLY INTERWOVEN WITH THE WIRE FABRIC SHALL BE PROVIDED. ALL FENCE FABRIC SHALL CLEAR THE FINISHED SURFACE OF THE GROUND BY 2 INCHES, PLUS OR MINUS 1 INCH. GATE AND GATE POSTS SHALL CONFORM TO THE REFERENCED STANDARD SPECIFICATIONS.

5.02 MASONRY WALL: MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE UNIFORM BUILDING CODE AS ADOPTED BY THE CITY. BLOCK SHALL BE OPEN—END, GRADE "N"; MORTAR SHALL BE TYPE "M" AND, REINFORCING SHALL BE GRADE 40, DEFORMED BARS. ONLY CELLS CONTAINING REINFORCING SHALL BE GROUTED. CONCRETE FOR FOOTINGS SHALL BE CLASS "B" 3000 PSI., MADE WITH TYPE II PORTLAND CEMENT AND 5% PLUS OR MINUS 1%, OF ENTRAINED AIR. SLUMP AT PLACEMENT SHALL BE NO MORE THAN 4 INCHES. SOILS UNDER FOOTINGS SHALL BE COMPACTED FOR A DEPTH OF NO LESS THAN 12 INCHES TO A DENSITY OF 90%, PLUS OR MINUS 3%; SOIL BACKFILL ADJACENT TO FOOTINGS SHALL BE LIKEWISE COMPACTED UNLESS CONCRETE IS PLACED AGAINST COMPACT, UNDISTURBED SOIL. EXPANSION JOINTS IN WALL BLOCK SHALL BE 1/2" CLEAR VERTICAL OPENING PLACE AT ALL INTERSECTIONS, FOUNDATIONS STEPS, CHANGES IN DIRECTION AND AT A MAXIMUM SPACING OF 60 FEET. WALLS SHALL BE LEVEL, STEPPED AS NEEDED TO MEET THE WALL ELEVATION REQUIREMENTS INDICATED ON THE DRAWINGS.

5.03 COATING: WHERE COATING OF MANHOLE, WET WELLS AND SIMILAR STRUCTURES IS CALLED FOR ON THESE DRAWINGS, SUCH SHALL BE A SELF-PRIMING, HEAVY DUTY, COLD-APPLIED, WATERPROOF, COAL-TAR COATING, APPLIED PER THE MANUFACTURER'S WRITTEN SPECIFICATIONS. THE MATERIAL SHALL BE RAVEN LINING SYSTEM OR APPROVED EQUAL.

5.04 ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PER CALTRANS STD. SPEC. 84–2.02B AND TO BE APPLIED ONE MONTH AFTER PAVING.

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.



## CITY OF IMPERIAL

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#### COMMUNITY DEVELOPMENT DEPARTMENT

7TH, 10TH & 14TH STREETS REHABILITATION PROJECT BID No. 2024-01

SPECIFICATIONS SHEET

of **28** SHEETS

SHEET