

# HOWARD AVE – VILLAGE PINE TO IRIS SIDEWALK

## CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 426 OF THE CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES (I.E., 69 KV & HIGHER)

## CONSTRUCTION STORM WATER PROTECTION NOTES

- TOTAL SITE DISTURBANCE AREA (ACRES) 0.16  
HYDROLOGIC UNIT / WATERSHED TIJUELA MTS / TIJUELA RIVER WATERSHED  
HYDROLOGIC SUBAREA NAME & NO. SAN YSIDRO 31UL
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE  
☒ WPCP  
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001  
AS AMENDED BY R9-2015-0001 AND R9-2015-0002  
☐ SWPPP  
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001  
AS AMENDED BY R9-2015-0001 AND R9-2015-0002 AND CONSTRUCTION GENERAL  
PERMIT ORDER 2003-0009-DWO AS AMENDED BY ORDER 2004-0004-DWO AND  
2012-0006-DWO  
TRADITIONAL: RISK LEVEL 1 ☐ 2 ☐ 3 ☐  
LUP: RISK TYPE 1 ☐ 2 ☐ 3 ☐
- CONSTRUCTION SITE PRIORITY  
☐ ASBS ☐ HIGH ☐ MEDIUM ☒ LOW

## PERMANENT STORM WATER BMP CATEGORY

- ☐ PRIORITY DEVELOPMENT PROJECT  
☒ STANDARD DEVELOPMENT PROJECT  
☐ PDP EXEMPT  
☐ NOT SUBJECT TO PERMANENT STORM WATER REQUIREMENTS

## MONUMENTATION SURVEY NOTES

THIS MAP WAS CREATED FROM A PARCEL LAYER AND DOES NOT DEPICT THE ACTUAL LOCATION OF THE PROPERTY LINES. NO BOUNDARY ANALYSIS WAS PERFORMED. THE SURVEY MONUMENTS HAVE BEEN LOCATED BY SURVEY GRADE MEASUREMENTS, AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

THE CITY OF SAN DIEGO LAND SURVEYORS SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 8730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH THE COUNTY SURVEYOR.

IF ANY HORIZONTAL OR VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ANY HORIZONTAL CONTROL AND VERTICAL CONTROL. BENCHMARKS DESTROYED BY THE CONSTRUCTION IF THE CITY OF SAN DIEGO SURVEY SECTIONS IS NOT NOTIFIED PRIOR TO CONSTRUCTION, THE FILING OF A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH COUNTY SURVEYOR. A COPY OF THE FIELD DOCUMENT SHALL BE FURNISHED TO THE CITY OF SAN DIEGO SURVEY SECTION.

## ABBREVIATIONS

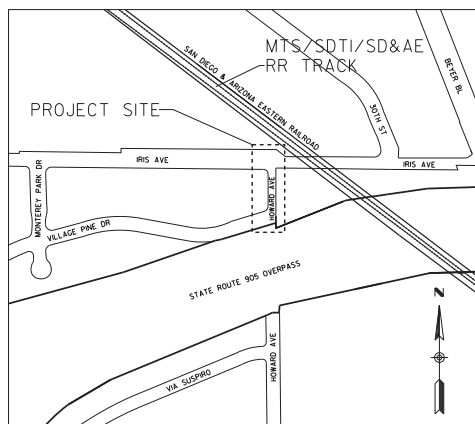
AB	ABANDON	EB	ENCASED BURIED	OH	OVER HEAD
ALG	ALIGNMENT	EL	ELEVATION	PROP	PROPOSED
BFP	BACK FLOW PREVENTER	ELEC	ELECTRIC	PPB	PEDESTRIAN PUSH BUTTON
BTWN	BETWEEN	EX	EXISTING	SD&AE	SAN DIEGO & ARIZONA
CATV	CABLE TV	FN	FIRE HYDRANT	SDTI	SAN DIEGO TROLLEY INC.
C	CENTER LINE	FL	FLOW LINE	SWR	SEWER
COND	CONDUIT	FS	FIRE SERVICE	TEL	TELEPHONE
CONT	CONTINUED	HP	HIGH PRESSURE	UNK	UNKNOWN
CONTR	CONTRACTOR	IE	INVERT ELEVATION	WM	WATER METER
DB	DIRECT BURIED	MTD	MULTIPLE TELEPHONE DUCT	WTR	WATER
DI	DUCTILE IRON	MTS	SAN DIEGO METROPOLITAN TRANSIT SYSTEM		

## DISCIPLINE CODE

- G GENERAL  
D DEMOLITION  
C CIVIL  
E ELECTRICAL

## SHEET INDEX

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS
1	G-1	COVER SHEET	HOWARD AVE AND IRIS AVE
2	G-2	NOTES	HOWARD AVE AND IRIS AVE
3	D-1	DEMOLITION PLAN	HOWARD AVE AND IRIS AVE
4	C-1	IMPROVEMENT PLAN	HOWARD AVE AND IRIS AVE
5	C-2	BMP MAP FOR STANDARD PROJECT	HOWARD AVE AND IRIS AVE
6	C-3	SIGNING & STRIPING	HOWARD AVE AND IRIS AVE
7	C-4	ALIGNMENT REPORTS	HOWARD AVE AND IRIS AVE
8	E-1	TRAFFIC SIGNAL MODIFICATION	HOWARD AVE AND IRIS AVE



KEY MAP  
NO SCALE

## TRAFFIC CONTROL NOTES:

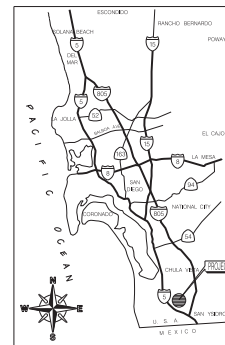
THE CONTRACTOR SHALL, PER SECTION 601.7 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL WORKING DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE WORKING DRAWINGS WILL BE SENT TO THE ENGINEERING TRAFFIC CONTROL SECTION FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL ALLOW A MINIMUM OF 20 WORKING DAYS FOR REVIEW OF THE WORKING DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT. WORK SHALL NOT BEGIN IN THE PUBLIC RIGHT OF WAY WITHOUT THE APPROVED TCP PERMIT.

## LANDSCAPING NOTES

REVEGETATE SLOPE AS INDICATED IN SPECIAL PROVISIONS.

## WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK:  
INSTALL NEW SIDEWALK, CURB RAMPS,  
DRIVEWAYS, STRIPING, AND TRAFFIC SIGNAL MODIFICATION.  
ALL WORK TO BE DONE ACCORDING TO THE PLANS,  
STANDARD SPECIFICATIONS, AND THE STANDARD  
DRAWINGS OF THE CITY OF SAN DIEGO.



VICINITY MAP  
NOT TO SCALE

## TOPOGRAPHIC SOURCE

BASED ON FIELD SURVEY DATA PERFORMED BY THE CITY OF SAN DIEGO SURVEYING DIVISION ON JANUARY 4, 2018, WORK ORDER NO. B-18019.

## STREET CLASSIFICATION

STREET NAME: HOWARD AVE  
COLLECTOR, ADT=4,398

STREET NAME: IRIS AVE  
COLLECTOR, ADT=7,045

## REFERENCES:

CITY DRAWING: 13209-B, 14727-D, 14911-D, 17252-D,  
17277-D, 30050-D, 31992-D  
CALTRANS: L.O.2510.2, MAP 34331  
CORNER RECORDS: 35040, 36015  
RECORD OF SURVEY: 15514, 22523  
SUBDIVISION MAPS: 4680, 7185, SEC 35 T18S R2W

## FIELD DATA

BENCHMARK: NWBP CORONADO/HAWAII  
ELEV.= 131.427 MSL, BASED ON NGVD 29  
FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK

## BASIS OF BEARINGS / COORDINATES:

THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING R.O.F. S.4492 NAD 83 FEET, ZONE 6 (EPOCH 1993.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH A CALVRS BASE STATION BROADCAST OF 2017 AND CONSTRAINING TO GPS 24, AND GPS 17, I.E. N 15° 14' 55" W.

## LEGEND

IMPROVEMENTS	STANDARD DRAWINGS	SYMBOL
SIDEWALK	SDG-109, SDG-155, SDG-156, G-10	
CURB AND GUTTER	SDG-154, TYPE G	
CURB RAMP	SDG-132, SDG-133, SDG-135	
DRIVEWAY	SDG-159, SDG-161	
SCHEDULE 'J' PAVING	SDG-113	
FIRE HYDRANT	SDW-104	
CROSS GUTTER	SDG-157	
CHAIN LINK FENCE	SDM-112	
ELECTRICAL CONDUIT	SDG-119	
CONTINENTAL CROSSWALK		
ROAD CENTERLINE		
STOP LINE		
NO. 6 PULLBOX	CALTRANS ES-8	
EXISTING RIGHT-OF-WAY		
PROPOSED RIGHT-OF-WAY		
DAYLIGHT LINE		
MINOR CONTOUR		
MAJOR CONTOUR		

## EXISTING STRUCTURES

EX WATER VALV E	
EX WATER METER	
EX FIRE HYDRANT	
EX SEWER MAIN & MANHOLES	
EX DRAINS	
EX PAVEMENT (PROFILE)	
EX GROUND LINE (PROFILE)	
EX TRAFFIC SIGNAL	
EX STREET LIGHT	
GAS MAIN	
ELEC. COND., TEL. COND., CATV	
RAILROAD, TROLLEY TRACKS	
GAS MAIN	

G-1

PLANS FOR THE CONSTRUCTION OF  
HOWARD AVE – VILLAGE PINE TO IRIS  
SIDEWALK

COVER SHEET

SPEC. NO.	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 1 OF 8 SHEETS	NBS B-18019
DATE 01/03/2022	FOR CITY ENGINEER NICOLE GEORGE DATE 01/03/2022	FOR CITY ENGINEER A. GONZALEZ DATE 01/03/2022
DESCRIPTION ORIGINAL	BY AS/VIS	DATE 01/03/2022
CONTRACTOR	INSPECTOR	NTP NDC
41469-01-D		

The City of  
**SAN DIEGO** Engineering & Capital Projects

MTS STANDARD CONSTRUCTION NOTES

MTS STANDARD CONSTRUCTION NOTES

1. A RIGHT OF ENTRY (ROE) PERMIT IS NECESSARY WHEN ENTERING MTS/SAN DIEGO AND ARIZONA EASTERN (SD&AE) RIGHT-OF-WAY (MTS R/W), INCLUDING AIRSPACE, FOR ANY PURPOSE. A ROE PERMIT IS ALSO REQUIRED WHEN WORKING IN PUBLIC RIGHT-OF-WAY OCCUPIED BY MTS/SD&AE FACILITIES. INFORMATION TO APPLY FOR ROE CAN BE OBTAINED FROM MTS'S WEBSITE AT: [WWW.SD&MTS.COM/MTS/SD&AE/TOOLS/ASP](http://WWW.SD&MTS.COM/MTS/SD&AE/TOOLS/ASP) OR CONTACT MTS PERMITS AT: [MTSPERMS@SD&MTS.COM](mailto:MTSPERMS@SD&MTS.COM). APPLICANT/CONTRACTOR IS REFERRED TO AS THE "PERMITEE".
2. CERTIFICATE OF INSURANCE FROM YOUR INSURANCE COMPANY FOR GENERAL LIABILITY, AUTOMOBILE LIABILITY, POLLUTION LIABILITY (IF APPLICABLE), PROFESSIONAL LIABILITY (IF APPLICABLE), AND WORKMAN'S COMPENSATION MUST BE SUBMITTED AND APPROVED BY MTS BEFORE THE PERMIT WILL BE PROCESSED. FULL INSURANCE REQUIREMENT GUIDELINES CAN BE ACCESSED FROM THE MTS WEBSITE NOTED ABOVE.
3. MOST GENERAL LIABILITY INSURANCE POLICIES DO NOT COVER RAILROADS. ANY EXCLUSIONS RELATING TO PERFORMANCE OF OPERATIONS WITHIN THE VICINITY OF ANY RAILROAD, BRIDGE, TRESTLE, TRACK, ROADBED, TUNNEL, UNDERPASS, OR CROSSING MUST BE DELETED FROM ALL POLICIES BY ENDORSEMENT. ADDITIONALLY, A SEPARATE RAILROAD PROTECTIVE LIABILITY POLICY WILL MOST LIKELY BE REQUIRED AFTER PROJECT REVIEW AS DEEMED NECESSARY BY MTS.
4. ALL PERSONNEL PERFORMING WORK ON MTS R/W, ON ENTERING MTS R/W SHALL REQUIRE PROPER MTS RAIL SAFETY TRAINING CERTIFICATION PRIOR TO ENTERING MTS R/W. ANY CONTRACTORS OR SUBCONTRACTORS PERFORMING WORK ON BEHALF OF PERMITEE, SHALL BE DEEMED AS AGENTS OF PERMITEE AND SHALL REQUIRE SAID TRAINING AS WELL. FOR TRAINING INFORMATION, EMAIL [MTSPERMS@SD&MTS.COM](mailto:MTSPERMS@SD&MTS.COM). TRAINING CERTIFICATION IS VALID FOR ONE YEAR AND IS CONFINED TO MTS/SD&AE FACILITIES ONLY.
5. PERMITEE SHALL PROVIDE MTS WITH AN APPROVED SET OF TRAFFIC CONTROL PLANS THAT CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND COMPLY IN PARTICULAR WITH PART 8 - TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSINGS.
6. IF PROJECT INVOLVES CASING SLEEVES UNDER RAILROAD TRACKS AND ACROSS MTS R/W, PERMITEE SHALL ADHERE TO MTS JACK AND BORE DESIGN CRITERIA AND CONSTRUCTION NOTES.
7. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH MTS/SDTI PRIOR TO WORK COMMENCING WITHIN MTS R/W. A WRITTEN NOTICE OF PLANNED START OF WORK MUST BE SUBMITTED TO MTS A BUSINESS DAYS PRIOR TO WORK STARTING IN MTS R/W. ALL WORK WILL BE STOPPED AND PERMITEE WILL NOT BE ALLOWED IN MTS R/W WITHOUT PROPER NOTIFICATION.
8. PERMITEE'S ON-SITE SUPERVISION SHALL RETAIN/MAINTAIN A FULLY EXECUTED COPY OF THE RIGHT OF ENTRY PERMIT AT ALL TIMES WHILE ON MTS R/W.
9. SDTI RAIL FLAGGING WILL BE REQUIRED ANYTIME WORK IS WITHIN FIFTEEN (15) FEET OF ANY OPERABLE TRACK INCLUDING AIRSPACE OR AS DEEMED NECESSARY BY MTS. A SDTI FLAGPERSON/RIGHT-OF-WAY WORK REQUEST FORM MUST BE SUBMITTED TO SDTI A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO ANTICIPATED WORK. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
10. A SDTI TRACTION POWER SHUTDOWN MAY BE NECESSARY FOR THE WORK ZONE TO PROTECT AND MAINTAIN THE REQUIRED TEN (10) FOOT CLEARANCE FROM TROLLEY OVERHEAD HIGH VOLTAGE CATENARY SYSTEMS (OCS). PERMITEE SHALL SUBMIT A SDTI RAIL TAG/TRACTION POWER REMOVAL REQUEST FORM TO SDTI AT LEAST THREE (3) BUSINESS DAYS PRIOR TO THE START OF WORK. POWER SHUTDOWNS SHALL ONLY BE ALLOWED DURING NON-OPERATING TROLLEY HOURS. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
11. PERMITEE SHALL CONTACT AND SCHEDULE DIG-ALERT AND CABLE PIPE AND LEAK (CPL) PRIOR TO ANY EXCAVATION IN MTS R/W. PERMITEE SHALL NOTIFY MTS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE SCHEDULED UTILITY MARKOUT REQUEST AND SHALL SUBMIT A SDTI FLAGPERSON/RIGHT-OF-WAY WORK REQUEST FORM. SDTI PERSONNEL SHALL ACCOMPANY CPL FOR ANY MARKOUT OF TROLLEY FACILITIES.
12. PERMITEE SHALL ADHERE TO CONSTRUCTION AND SAFETY STANDARDS REQUIRED BY MTS OF THEIR CONTRACTORS WHEN WORKING WITHIN MTS R/W.
13. PERMITEE SHALL PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC) AND CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, MTS LEFT DESIGN CRITERIA, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) STANDARD SPECIFICATIONS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) GUIDELINES AND MTS SDTI AND SDHV OPERATIONS AND SAFETY POLICIES.
14. PERMITEE AGREES THAT NO WORK BY HIMSELF OR HIS AUTHORIZED AGENT WILL INTERFERE WITH RAILROAD/TROLLEY OPERATIONS.
15. PERMITEE AGREES TO COORDINATE ON A DAILY BASIS A REASONABLE ACCESS TO ALL MTS/SD&AE FACILITIES WITH CONTRACT OPERATORS, SDTI, AND SDHV. SDTI TROLLEY OPERATIONS ARE GENERALLY FROM THE HOURS OF 4:00 A.M. TO 2:00 A.M. THE FOLLOWING DAY. SD&V FREIGHT TRAINS NORMAL OPERATIONS ARE DURING NON-TROLLEY HOURS.
16. PERMITEE SHALL MAINTAIN SAFE PEDESTRIAN ACCESS TO ALL TROLLEY PLATFORMS AND BUS STOPS AT ALL TIMES. A MINIMUM FIVE (5) FOOT WIDE ACCESSIBLE PEDESTRIAN PATH THROUGH THE CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES. THE CONSTRUCTION BOUNDARY SHALL CONSIST OF A TOP AND BOTTOM RAIL CONSTRUCTED OF PLASTIC PIPE, OSHA PLASTIC MESH, OR APPROVED EQUAL. YELLOW CAUTION TAPE IS NOT ACCEPTABLE.
17. PERMITEE SHALL NOT STORE EQUIPMENT, TOOLS, AND MATERIALS WITHIN FIFTEEN (15) FEET FROM TROLLEY OPERABLE TRACK AND WITHIN TWENTY-FIVE (25) FEET FROM FREIGHT TRACK OPERATIONS.
18. PERMITEE SHALL NOT USE OR STORE HAZARDOUS SUBSTANCES, AS DEFINED BY THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT, AS AMENDED ("CERCLA") OR PETROLEUM OR OIL AS DEFINED BY APPLICABLE ENVIRONMENTAL LAWS ON MTS R/W.
19. NO VEHICULAR CROSSING OVER TRACKS SHALL BE INSTALLED OR USED BY PERMITEE WITHOUT PRIOR WRITTEN PERMISSION OF RAILROAD.


The City of  
**SAN DIEGO** Engineering & Capital Projects

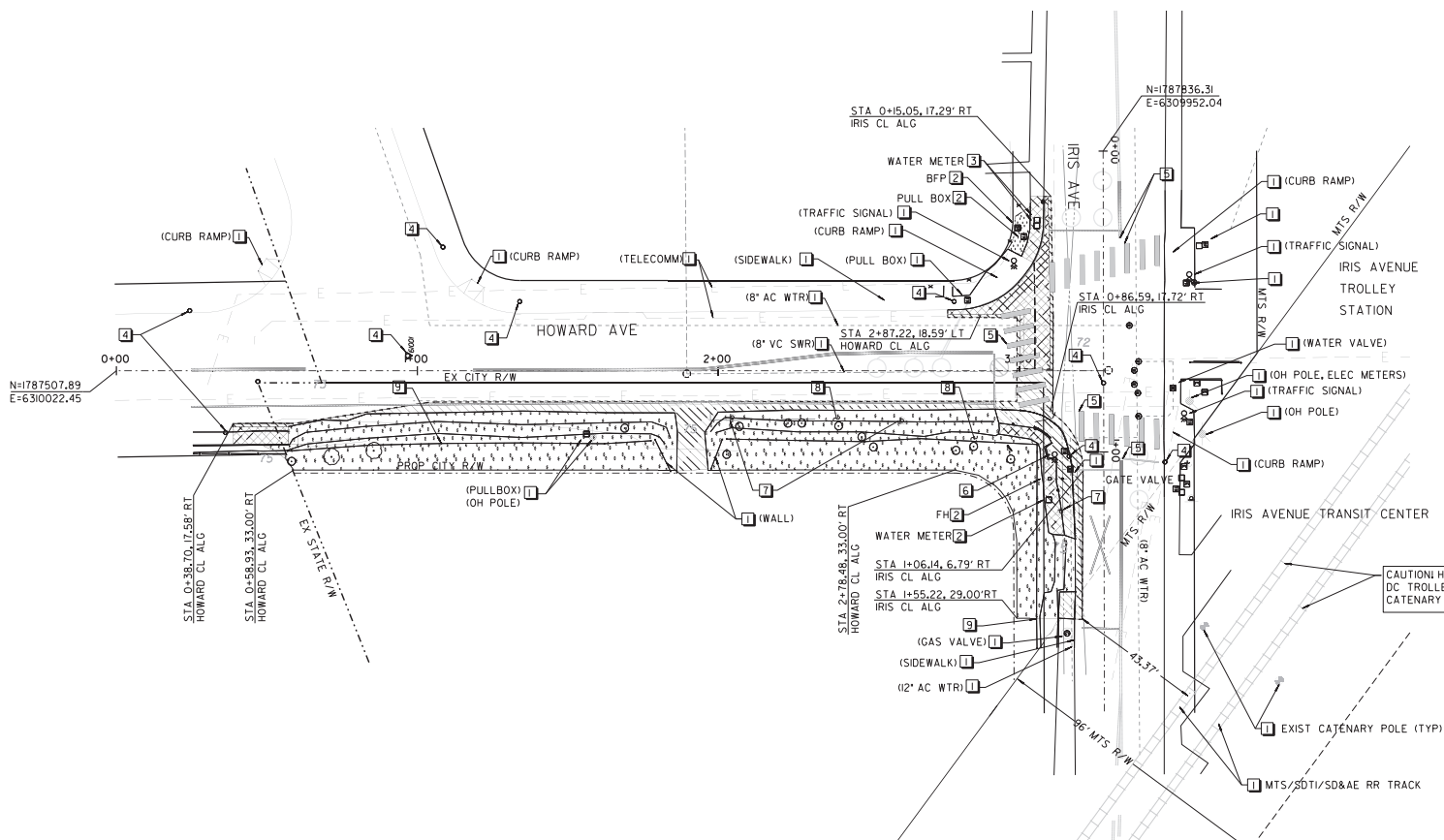
CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING  
0 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

G-2

PLANS FOR THE CONSTRUCTION OF  
HOWARD AVE – VILLAGE PINE TO IRIS  
SIDEWALK  
COVER SHEET

SPEC. NO.	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 2 OF 3 SHEETS	NBS	B-18019	
	DATE 01/03/2022	DATE 8/11/16	DATE A. GONZALEZ	
	FOR CITY ENGINEER NICOLE GEORGE	FOR CITY ENGINEER AND FOR 8/11/16	FOR CITY ENGINEER A. SALVANI	
	DESCRIPTION	BY	APPROVED	DATE
	ORIGINAL	AS-V/S		01/03/22
CONTRACTOR	NTP	INSPECTOR	NOC	
			41469-02-D	



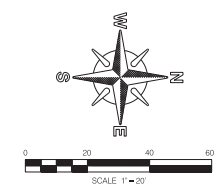
DEMOLITION NOTES

- 1 PROTECT IN PLACE
- 2 RELOCATE EXISTING UTILITIES PER SHEET C-1
- 3 ADJUST EXISTING UTILITIES TO GRADE
- 4 APPROXIMATE SURVEY MONUMENT LOCATION TO BE PROTECTED IN PLACE
- 5 REMOVE EXISTING STRIPING BY HYDROBLASTING PER SHEET C-3
- 6 REMOVE EXISTING TRAFFIC SIGNAL POLE PER SHEET E-1
- 7 RELOCATE EXISTING SIGN PER SHEET C-3
- 8 REMOVE CONFLICTING ROOTS OR STUMP AS NEEDED.
- 9 REMOVE EXISTING FENCE

DEMOLITION LEGEND

- SAWCUT
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE IMPROVEMENTS
- CLEAR AND GRUB
- REMOVE EXISTING CURB

CAUTION! HIGH VOLTAGE 650V  
DC TROLLEY OVERHEAD  
CATENARY SYSTEM



D-1

PLANS FOR THE CONSTRUCTION OF  
HOWARD AVE - VILLAGE PINE TO IRIS  
SIDEWALK  
DEMOLITION PLAN

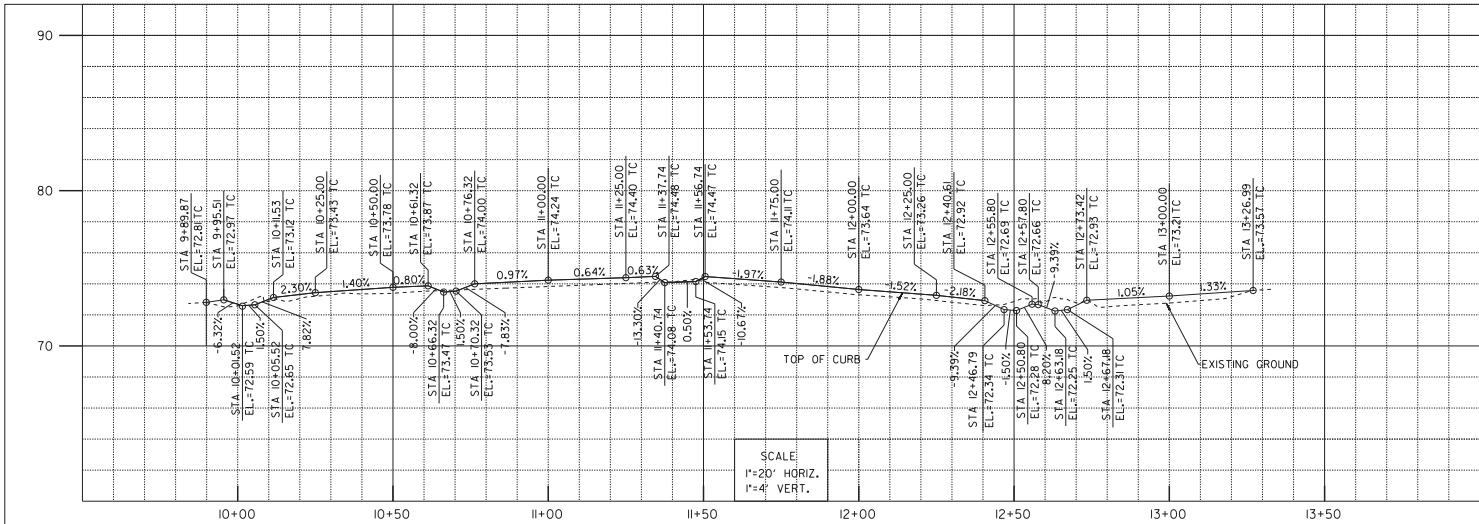
CITY OF SAN DIEGO, CALIFORNIA  
PUBLIC WORKS DEPARTMENT  
SHEET 3 OF 8 SHEETS

PROJECT	01/03/2022	DATE	88116	NO. B-18019
FOR CITY REVIEW	NICOLE GEORGE	DATE	01/03/22	FILED
DESCRIPTION	AG/AS	DATE	01/03/22	FILED
ORIGINAL				



CONTRACTOR \_\_\_\_\_ NTP \_\_\_\_\_  
INSPECTOR \_\_\_\_\_ NOC \_\_\_\_\_

41469-03-D

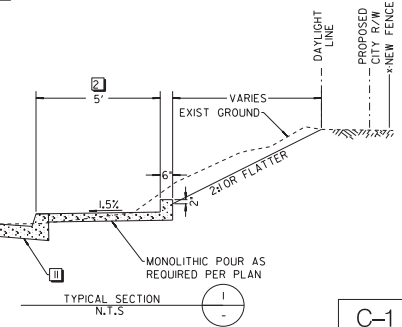
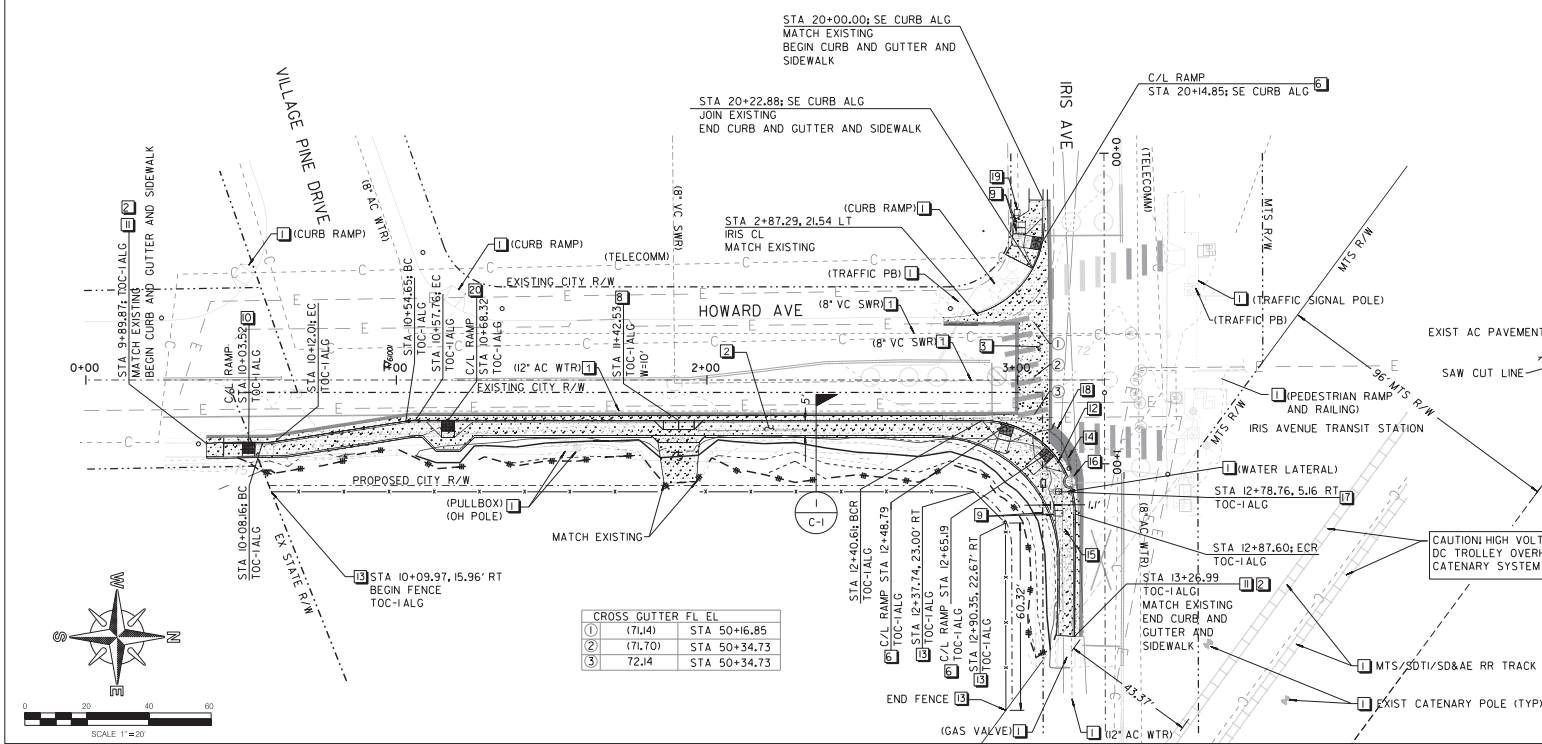


GENERAL NOTES

1. FOR ALL CURB RAMPS CONTRACTOR SHALL PROVIDE AN EMBEDDED STAMP ON THE TOP OF CURB AT THE OPENING OF THE CURB RAMP. THE STAMP SHALL BE 1/4" DEEP AND 3/4" TO 1" HIGH AND SHALL ONLY CONTAIN THE NAME OF THE CONTRACTOR AND YEAR OF INSTALLATION. THE STAMP SHALL BE COMPLETELY FLUSH WITH CURB SURFACE.
2. SEE DRAWING C-4 FOR ALIGNMENT TABLES AND ADDITIONAL PROFILES.

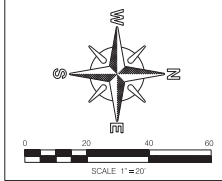
CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. INSTALL PCC SIDEWALK PER SDG-155
3. INSTALL 10" WIDE CROSS GUTTER PER SDG-157 AND PER ELEVATION TABLE ON THIS SHEET.
5. INSTALL TYPE A CURB RAMP PER SDG-133
7. NOT USED
8. INSTALL CONCRETE DRIVEWAY (CONTIGUOUS SIDEWALK) PER SDG-159
9. RELOCATE AND REPLACE EXISTING WATER METER, RECONNECT TO EXISTING SERVICE.
10. INSTALL TYPE C-1 CURB RAMP PER SDG-135
11. INSTALL CURB AND GUTTER PER SDG-151 TYPE G
12. REPLACE AND RELOCATE TRAFFIC SIGNAL POLE PER SHEET E-1
13. INSTALL NEW 4" BLACK VINYL CHAIN LINK FENCE PER SDG-112
14. RELOCATE TRAFFIC SIGNAL BOX PER E-1
15. RELOCATE SIGN PER SHEET C-3
16. PROTECT IN PLACE EXIST GATE VALVE AND MANHOLE. CONSTRUCT CURB AROUND MANHOLE COVER TO ALLOW FULL ACCESS TO MANHOLE AND VALVE.
17. RELOCATE AND RECONNECT FIRE HYDRANT PER SDG-104
18. SAWCUT EXIST PAVEMENT AND REMOVE AND RECONSTRUCT AC PAVEMENT PER SDG-113
19. RELOCATE AND RECONNECT BACKFLOW PREVENTER
20. INSTALL TYPE B CURB RAMP PER SDG-133
21. REVEGETATE SLOPE AS INDICATED IN SPECIAL PROVISIONS

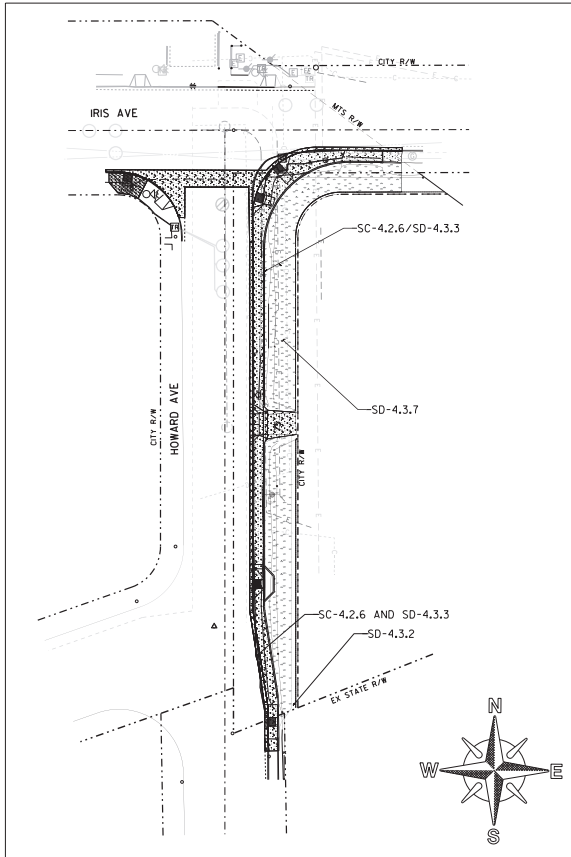


PLANS FOR THE CONSTRUCTION OF  
HOWARD AVE - VILLAGE PINE TO IRIS  
SIDEWALK  
IMPROVEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 4 SHEETS		NO. B-18019
FOR CITY ENGINEER NICOLE GEORGE		DATE 01/03/2022
FOR CITY ENGINEER A. SALVANI		DATE 01/03/2022
DESCRIPTION ORIGINAL		AS/VS
BY A. SALVANI		DATE 01/03/2022
PROJECT NO. 1786-6303		PROJECT NO. 1786-6303
CONTRACTOR INSPECTOR		CONTRACTOR INSPECTOR







SITE MAP  
N.T.S.

SOURCE CONTROL BMP CHECKLIST FOR STANDARD PROJECTS		FORM I-4A	
ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SOURCE CONTROL BMP'S. REFER TO CHAPTER 4 AND APPENDIX E OF THE BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT BMP'S SHOWN IN THIS CHECKLIST. NOTE: ALL SELECTED BMP'S MUST BE SHOWN ON THE CONSTRUCTION PLANS.			
SOURCE CONTROL REQUIREMENT		APPLIED/0?	
4.2.1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
4.2.2 STORM DRAIN STENCILING OR SIGNAGE	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.2.3 PROTECT OUTDOOR MATERIALS STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.2.4 PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.2.5 PROTECT TRASH STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.2.6 BMP'S BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
ON-SITE STORM DRAIN INLETS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
INTERIOR PARKING GARAGES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
NEED FOR FUTURE INDOOR AND STRUCTURAL PEST CONTROL	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
LANDSCAPE / OUTDOOR PESTICIDE USE	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
POOLS, SPAS, PONDS, DECORATIVE FOUNTAINS, AND OTHER WATER FEATURES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
FOOD SERVICE	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
REFUSE AREAS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
INDUSTRIAL PROCESSES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
OUTDOOR STORAGE OF EQUIPMENT OR MATERIALS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
VEHICLE / EQUIPMENT REPAIR AND MAINTENANCE	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
FUEL DISPENSING AREAS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
LOADING DOCKS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
FIRE SPRINKLER TEST WATER	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
MISCELLANEOUS DRAIN OR WASH WATER	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
PLAZAS, SIDEWALKS, AND PARKING LOTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
SC-6A: LARGE TRASH GENERATING FACILITIES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
SC-6B: ANIMAL FACILITIES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
SC-6C: PLANT NURSERIES AND GARDEN CENTERS	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
SC-6D: AUTOMOTIVE-RELATED USES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
DISCUSSION / JUSTIFICATION FOR ALL "NO" ANSWER SHOWN ABOVE: N/A			

SITE DESIGN BMP CHECKLIST FOR STANDARD PROJECTS		FORM I-5A	
ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SITE DESIGN BMP'S SD-1 THROUGH SD-8. REFER TO CHAPTER 4 AND APPENDIX E OF THE BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT BMP'S SHOWN IN THIS CHECKLIST. NOTE: ALL SELECTED BMP'S MUST BE SHOWN ON THE CONSTRUCTION PLANS.			
SITE DESIGN REQUIREMENT		APPLIED/0?	
4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.3.2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
4.3.3 MINIMIZE IMPERVIOUS AREA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
4.3.4 MINIMIZE SOIL COMPACTION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
4.3.5 IMPERVIOUS AREA DISPERSION	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.3.6 RUNOFF COLLECTION	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
4.3.7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A
4.3.8 HARVESTING AND USING PRECIPITATION	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
DISCUSSION / JUSTIFICATION FOR ALL "NO" ANSWER SHOWN ABOVE: N/A			
(i) ANSWER FOR EACH SOURCE CONTROL AND SITE DESIGN CATEGORY SHALL BE PURSUANT TO THE FOLLOWING: **YES** MEANS THE PROJECT WILL IMPLEMENT THE BMP AS DESCRIBED IN CHAPTER 4 AND/OR APPENDIX E OF THE BMP DESIGN MANUAL. DISCUSSION / JUSTIFICATION IS NOT REQUIRED. **NO** MEANS THE BMP IS APPLICABLE TO THE PROJECT BUT IT IS NOT FEASIBLE TO IMPLEMENT. DISCUSSION / JUSTIFICATION MUST BE PROVIDED. **N/A** MEANS THE BMP IS NOT APPLICABLE AT THE PROJECT SITE BECAUSE THE PROJECT DOES NOT INCLUDE THE FEATURE THAT IS ADDRESSED BY THE BMP (E.G., THE PROJECT HAS NO OUTDOOR MATERIALS STORAGE AREAS). DISCUSSION / JUSTIFICATION MAY BE PROVIDED.			

SITE DESIGN AND SOURCE CONTROL BMP OPERATION AND MAINTENANCE PROCEDURE				
O&M RESPONSIBLE PARTY DESIGNER: TRANSPORTATION AND STORM WATER DEPARTMENT				
BMP DESCRIPTION	INSPECTION FREQUENCY	MAINTENANCE FREQUENCY	MAINTENANCE METHOD	SHEET NUMBER
SITE DESIGN ELEMENTS	N/A	N/A	N/A	N/A
DESCRIPTION: N/A				
SOURCE CONTROL ELEMENTS	EVERY 6 MO.	AS NEEDED	SWEEPING	493 LF C-1
DESCRIPTION: SIDEWALK				
SOURCE CONTROL ELEMENTS	EVERY 6 MO.	AS NEEDED	TRIMMING/WEED CONTROL	3503 SF L-1
DESCRIPTION: LANDSCAPING				

STORM WATER NOTES

- THIS PROJECT IS SUBJECT TO MUNICIPAL CODE SECTION 4303 AND ORDER NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
- ALL SAW CUTTING, SANDBLASTING AND OTHER OPERATIONS WITH POTENTIAL TO PRODUCE A DISCHARGE MUST IMPLEMENT EFFECTIVE BMP'S WHILE THE WORK IS BEING PERFORMED.
- LANDSCAPING OF SLOPE TO BE COMPLETED PER LANDSCAPING PLAN IN SPECIAL PROVISIONS.

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PLANS FOR THE CONSTRUCTION OF HOWARD AVE - VILLAGE PINE TO IRIS SIDEWALK IMPROVEMENT PLAN				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 5 OF 8 SHEETS			#BS	B-18019
FOR CITY ENGINEER: NICOLE GEORGE DATE: 01/03/2022 TIME: 8:06			DATE: 01/03/2022 TIME: 8:06	
APPROVED BY: [Signature]			APPROVED BY: [Signature]	
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	AS-V/S	[Signature]	01/03/22	
CONTRACTOR			NTP	41469-05-D
INSPECTOR			NOC	

BMP MAP FOR STANDARD DEVELOPMENT PROJECTS

# STRIPING AND SIGNING GENERAL NOTES

1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DOCUMENT NO.	EDITION	DESCRIPTION
PWPIOI019-01	2018	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREEN BOOK")
PWPIOI019-02	2018	CITY OF SAN DIEGO SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "WHITEBOOK")
PWPIOI019-03	2018	CITY OF SAN DIEGO STANDARD DRAWINGS
PWPIO4220-09	2014	CALIFORNIA MUTCD MANUAL 2014 EDITION REVISION 5
PWPIO3019-06	2018	CALTRANS STANDARD PLANS

3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
4. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARD DRAWING M-45.
6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
7. ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
8. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
9. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
10. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858)495-4742 A MINIMUM OF (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

## CONSTRUCTION NOTES

- 1 HYDROBLAST EXISTING THERMOPLASTIC YELLOW CONTINENTAL CROSSWALK
- 2 INSTALL THERMOPLASTIC YELLOW CONTINENTAL CROSSWALK PER SDM-I6
- 3 HYDROBLAST EXISTING TRAFFIC STRIPE
- 4 INSTALL THERMOPLASTIC 12" WHITE LIMIT LINE PER SDM-I6
- 5 REMOVE AND REINSTALL TRAFFIC SIGNS (MAINTAIN 48" HORIZONTAL CLEARANCE AND 84" VERTICAL CLEARANCE AROUND OBJECTS)
- 6 INSTALL CENTERLINE PER CA MUTCD FIGURES 3A-101(CA) THROUGH 3A-113 (CA).
- 7 INSTALL 24" RAIL ROAD STOP LINE PER CA MUTCD.



R26 (CA)



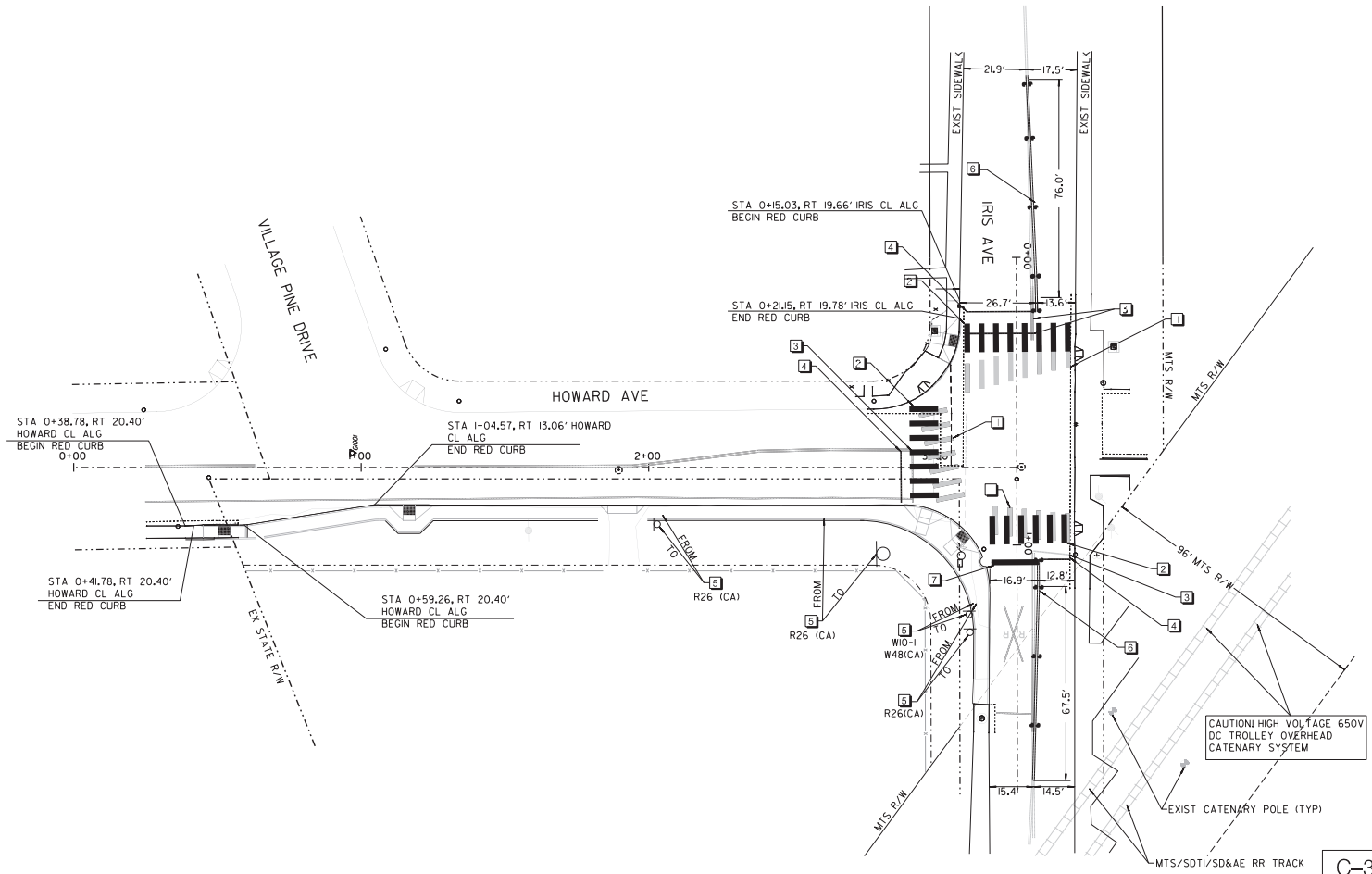
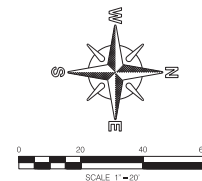
W10-1



W48 (CA)

## SIGNS THIS SHEET

N.T.S.



## PLANS FOR THE CONSTRUCTION OF HOWARD AVE - VILLAGE PINE TO IRIS SIDEWALK

### SIGNING AND STRIPING PLAN

CITY OF SAN DIEGO, CALIFORNIA  
PUBLIC WORKS DEPARTMENT  
SHEET 6 OF 8 SHEETS

NBS B-18019

DESIGNED BY	01/03/2022	DATE	88116	FOR CITY ENGINEER	A. GONZALEZ
FOR CITY ENGINEER	NICOLE GEORGE	DATE	01/03/22	FOR PROJECT ENGINEER	A. SALVANI
DESCRIPTION	VS	APPROVED	DATE	FILED	146-1743
ORIGINAL	VS	APPROVED	DATE	FILED	1786-6303
					1786-6303
					41469-06-D



CONTRACTOR INSPECTOR NTP NDC

C-3

HOWARD AVE - VILLAGE PINE TO IRIS SIDEWALK

Alignment: TOC - 1						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	9+89.87	1787546.51	6310043.15	STRAIGHT	N 2°13'48" W	D = 5.64
PI	9+95.51	1787552.15	6310042.93	STRAIGHT	N 1°00'58" W	D = 4.49
PI	10+00.00	1787556.64	6310042.85	STRAIGHT	N 0°57'45" E	D = 8.16
PI	10+08.16	1787564.79	6310042.98	STRAIGHT	N 0°57'45" E	D = 0.56
PC	10+08.72	1787565.35	6310042.99	R = -20.00	$\Delta = 9°25'15"$ LT	L = 3.29
PT	10+12.01	1787568.63	6310042.78	STRAIGHT	N 8°27'30" W	D = 42.64
PC	10+54.65	1787610.81	6310036.51	R = +20.00	$\Delta = 8°54'50"$ RT	L = 3.11
PT	10+57.76	1787613.91	6310036.29	STRAIGHT	N 0°27'21" E	D = 182.53
PC	12+40.29	1787796.43	6310037.74	R = +30.00	$\Delta = 90°21'36"$ RT	L = 47.31
PT	12+87.60	1787826.19	6310068.17	STRAIGHT	S 89°11'03" E	D = 39.39
POE	13+26.99	1787825.63	6310107.55			

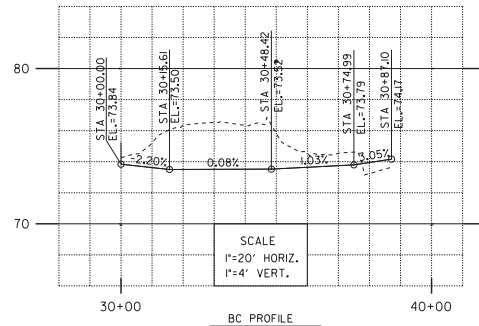
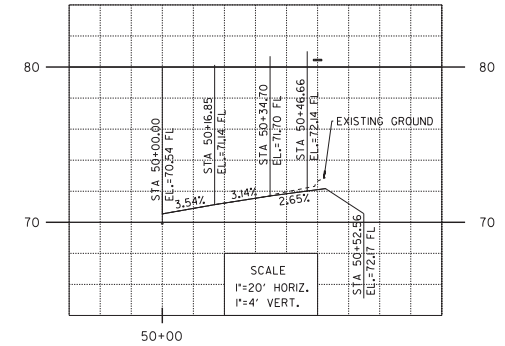
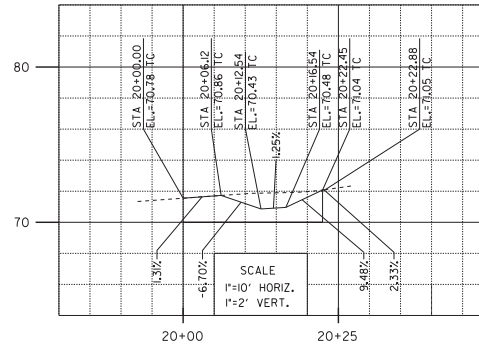
Alignment: SE CURB						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	20+00.00	1787816.57	6309966.97	STRAIGHT	S 89°13'55" E	D = 2.30
PI	20+02.30	1787816.54	6309969.27	STRAIGHT	S 88°05'31" E	D = 8.68
PI	20+10.99	1787816.25	6309977.95	STRAIGHT	S 80°43'14" E	D = 0.43
PI	20+11.42	1787816.25	6309977.95	STRAIGHT	S 80°43'14" E	D = 3.53
PI	20+14.95	1787815.69	6309981.44	STRAIGHT	S 75°43'10" E	D = 1.72
PI	20+16.67	1787815.26	6309983.11	STRAIGHT	S 71°11'11" E	D = 2.55
PI	20+19.23	1787814.44	6309985.52	STRAIGHT	S 65°27'23" E	D = 2.53
PI	20+21.76	1787813.39	6309987.83	STRAIGHT	S 61°01'16" E	D = 1.12
POE	20+22.88	1787812.84	6309988.81			

Alignment: Howard CL						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	0+00.00	1787507.89	6310022.45	STRAIGHT	N 0°27'21" E	D = 98.61
PI	0+98.61	1787606.50	6310023.23	STRAIGHT	N 0°27'21" E	D = 229.41
POE	3+28.02	1787835.91	6310025.06			

Alignment: Iris CL						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	0+00.00	1787836.31	6309952.04	STRAIGHT	S 89°40'54" E	D = 77.01
PI	0+77.01	1787835.89	6310029.06	STRAIGHT	S 89°40'54" E	D = 109.77
POE	1+86.78	1787835.28	6310138.82			

Alignment: BC						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
PC	30+00.00	1787781.30	6310042.62	R = +40.00	$\Delta = 90°21'36"$ RT	L = 63.08
PT	30+63.08	1787820.97	6310083.19	STRAIGHT	S 89°11'03" E	D = 15.28
PI	30+78.36	1787820.76	6310098.47	STRAIGHT	S 87°11'15" E	D = 8.74
POE	30+87.10	1787820.33	6310107.20			











































Alignment: CROSS GTR						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	50+00.00	1787813.17	6309989.34	STRAIGHT	N 89°30'25" E	D = 16.85
PI	50+16.85	1787813.31	6310006.19	STRAIGHT	S 89°20'08" E	D = 17.85
PI	50+34.70	1787813.11	6310024.04	STRAIGHT	S 89°20'08" E	D = 17.85
POE	50+52.56	1787812.90	6310041.89			



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PLANS FOR THE CONSTRUCTION OF			
HOWARD AVE - VILLAGE PINE TO IRIS SIDEWALK			
ALIGNMENT TABLES AND PROFILES			
CITY OF SAN DIEGO CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 7 OF 8 SHEETS		NBS B-18019	
DESIGNED BY NICOLE GEORGE		DATE 01/03/2022	
CHECKED BY A. SALVANI		FILMED 8816	
DESCRIPTION ORIGINAL	BY AS/VS	DATE 01/03/22	FILMED 8816
PROJECT ENGINEER A. SALVANI		PROJECT ENGINEER A. SALVANI	
CROSS COORDINATE 1786-6303		CROSS COORDINATE 1786-6303	
CONTRACTOR INSPECTOR		NTP NOC	
		41469-07-D	

HOWARD AVE - VILLAGE PINE TO IRIS SIDEWALK

CONDUCTOR			TABLE						
AWG SIZE OR CABLE TYPE	P H A S E	POLE OR CIRCUIT	CONDUIT SIZE & RUN						
			3"	3"	3"	2-3"	2"	2"	
3	12	POLE - A							
		POLE - B							
		POLE - B'							
		POLE - C							
		POLE - D							
POLE - E - PPB									
TOTAL 3 AND 12 CONDUCTOR CABLES			2	4	2	3	3	4	
NO. 6			-	-	-	-	-	-	
COMMON GROUND			-	-	-	-	-	-	
NO. 10			2	2	2	-	-	-	
6 PAIR NO. 22			-	-	-	1	1	-	
2 LOOP DETECTOR			-	3	3	-	-	-	
TYPE		"B"	4	-	-	-	1	1	-
			1	-	-	-	2	2	-
			B	-	1	1	-	1	-
	-		-	-	-	-	-	-	
	-		-	-	-	-	-	-	
DLC	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-		
EMERGENCY VEHICLE DETECTOR (EV-DLC)			1	1	2	-	3	-	
TOTAL CABLES AND CONDUCTORS			8	13	18	3	23	2	

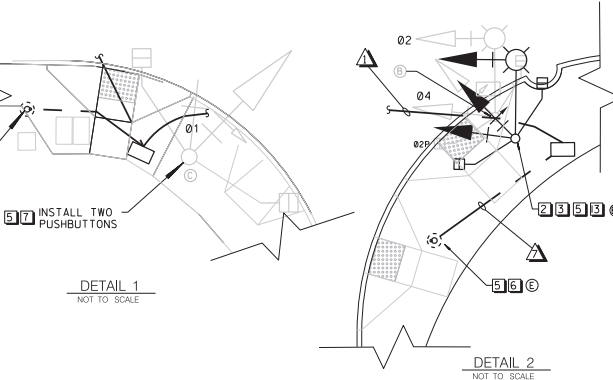
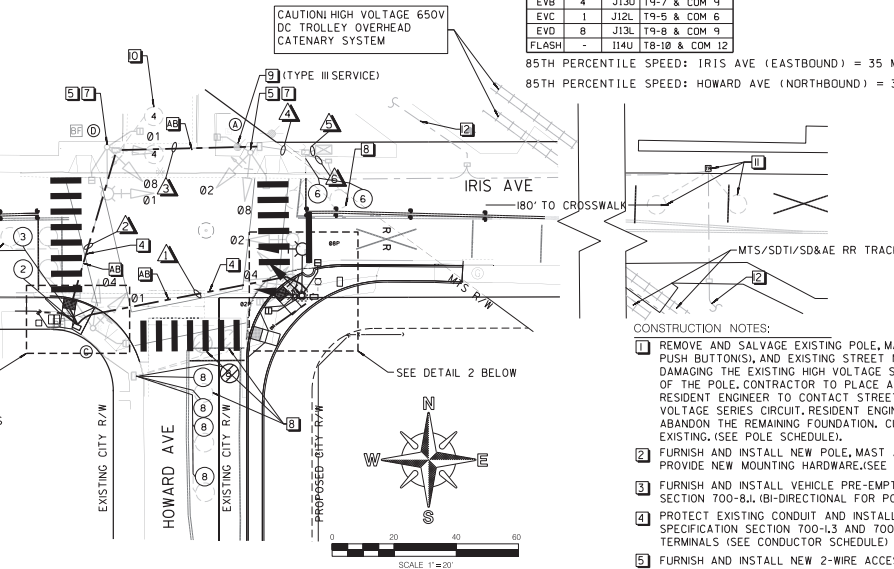
POLE		SCHEDULE									
No.	TYPE	STANDARD	LUMINAIRE	PLACEMENT	SIGNAL MOUNTING	PEDESTRIAN	REMARKS				
			LED		VEHICLE	PEDESTRIAN					
1	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
2	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
3	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
4	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
5	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
6	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
7	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
8	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
9	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
10	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
11	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
12	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
13	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
14	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
15	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
16	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
17	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
18	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
19	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
20	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
21	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
22	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
23	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
24	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
25	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
26	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
27	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
28	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
29	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
30	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
31	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
32	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
33	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
34	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
35	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
36	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
37	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
38	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
39	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
40	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
41	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
42	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
43	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
44	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
45	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
46	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
47	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
48	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
49	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
50	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
51	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
52	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
53	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
54	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
55	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
56	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
57	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
58	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
59	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
60	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
61	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
62	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
63	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
64	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
65	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
66	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
67	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
68	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
69	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
70	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
71	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
72	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
73	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
74	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
75	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
76	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
77	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
78	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
79	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
80	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
81	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
82	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
83	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
84	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
85	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
86	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
87	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
88	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
89	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
90	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
91	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
92	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
93	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
94	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
95	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
96	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
97	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
98	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
99	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
100	TYPE 15	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'

• = RED, YELLOW, GREEN  
▲ = RED, YELLOW, GREEN, GREEN ARROW (MAS 4-B)

#### TRAFFIC SIGNAL GENERAL NOTES:

- PULL BOXES SHALL BE NO. 6, AND CONDUIT 3" UNLESS NOTED OTHERWISE.
- LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND VERIFY THE EXACT LOCATIONS AND CONDITIONS ON THE JOB SITE.
- THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE ENGINEERING TECHNICAL SERVICES (ETS) DIVISION - TRAFFIC AND SIGNALS SECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT NO. 6 PULL BOX. THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT NO. 6 PULL BOX FOR FUTURE USE AS SHOWN ON CONDUIT SCHEDULE.
- ALL CONDUIT CROSSINGS SHALL INCLUDE A MINIMUM OF TWO (2) 3" CONDUITS FOR ALL NEW SIGNALS AND SIGNAL MODIFICATIONS THAT INVOLVE THE INSTALLATION OF NEW CONDUITS.
- THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF LOOP DETECTORS, TRAFFIC STRIPING, PAVEMENT MARKINGS, PARKING REMOVAL AND TRAFFIC SIGNING (EXCEPT "G" SERIES STREET NAME SIGNS) AS SHOWN ON THESE PLANS.
- THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF CITY RESIDENT TRAFFIC ENGINEER (ETS DIVISION) OF THE LOOP LOCATIONS PRIOR TO CUTTING, AS WELL AS, PRIOR TO ANY INSTALLATION AND/OR REMOVAL OF STRIPING, PAVEMENT MARKING, PARKING REMOVAL AND SIGN LOCATIONS.
- THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UNNECESSARY AND CONFLICTING STRIPING AND PAVEMENT MARKINGS.
- THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL PAVEMENT MARK-OUTS.
- THE TRAFFIC SIGNAL CONTRACTOR SHALL NOT ERECT ANY SIGNAL POLES MORE THAN THREE (3) WEEKS PRIOR TO SCHEDULED TRAFFIC SIGNAL TURN-ON.

- CONTRACTOR SHALL PROVIDE ALL CABLEING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THESE PLANS.
- ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY OF SAN DIEGO.
- ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE CITY ELECTRICAL ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED AS NEEDED TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
- ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
- ADVANCE LOOPS FOR PHASES 1 AND 2 ARE APPROXIMATELY 180 FT FROM CROSSWALK.
- RR PREEMPTION OF THE TRAFFIC SIGNAL MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MUST COORDINATE WITH SDOT/RR FLAGGING DURING ANY SCHEDULED SHUTDOWNS OF THE TRAFFIC SIGNAL SYSTEM.
- RR PREEMPTION OF THE TRAFFIC SIGNAL MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MUST COORDINATE WITH SDOT/RR FLAGGING DURING ANY SCHEDULED SHUTDOWNS OF THE TRAFFIC SIGNAL SYSTEM.



#### DETECTOR ASSIGNMENT

DET.	PHASE	SLOT	FIELD	TERMINAL
1	2	12U	T2-5 & 6	