

SEAWALL 321

PARKING LOT ELECTRICAL SERVICE PROJECT

SYMBOLS

ABBREVIATIONS

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY
DEMO	DEMOLISH
DWG	DRAWING
E	EXISTING
EP	EXPLOSION PROOF
E.W.	EACH WAY
(F)	FUTURE
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
LP	LIGHTING PANEL
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MH	MOUNTING HEIGHT, MANHOLE
MISC.	MISCELLANEOUS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N	NEW
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
PB	PULL BOX
PH	PHOTOELECTRIC SWITCH
PP	POWER PANEL
O.C.	ON CENTER
RP	RECEPTACLE PANEL
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF

WIRING

	QUANTITY OF RACEWAYS NUMBER OF CONDUCTORS IN RACEWAY GROUND CONDUCTOR CONDUCTOR SIZE CONDUIT SIZE
	UNDERGROUND CABLE OR DUCT; TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.
	WIRING RUN EXPOSED
	CONDUIT CAPPED

PANELS AND MISC.

	H20 RATED HANDHOLE
	DETAIL NUMBER DRAWING NUMBER
	RELAY COIL
	RELAY CONTACT
	PHOTOCELL
	POLE MOUNTED LED FIXTURE
	CIRCUIT BREAKER (RATING AND POLES AS INDICATED)
	UTILITY TRANSFORMER
	CT
	UTILITY METER

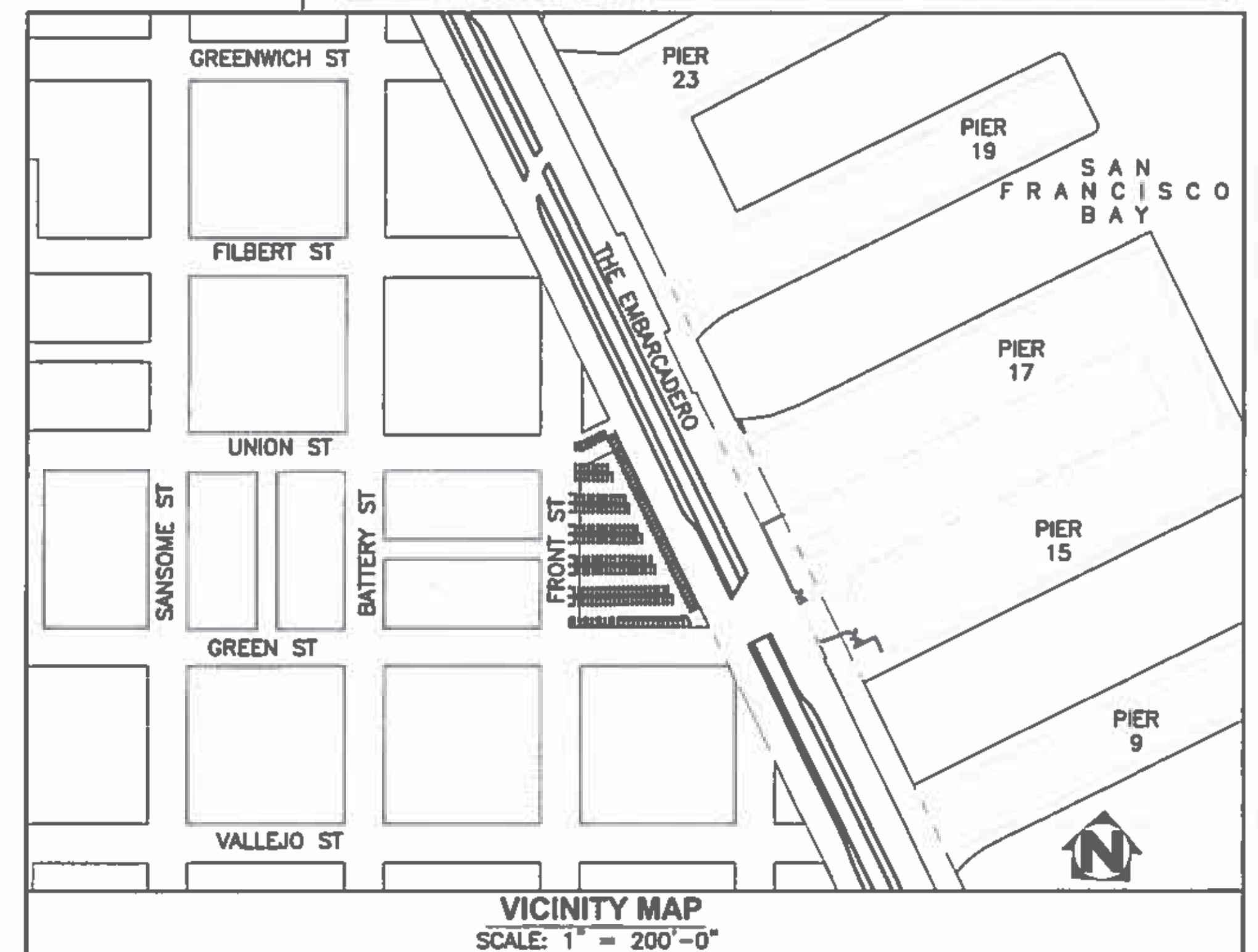
GENERAL ELECTRICAL NOTES

- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE 2013 CA ELECTRICAL CODE, 2013 PORT BUILDING CODE, AND THE NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- CONTRACTOR SHALL SECURE ALL CCSF/SFDPW PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED - PORT WILL OBTAIN PORT ENCROACHMENT PERMIT AND PROVIDE TO CONTRACTOR, WHO WILL ASSUME ROLE & RESPONSIBILITY OF APPLICANT.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS AGENTS.
- CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. FINAL ROUTING OF THE CONDUITS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR.
- THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED:

APPLICATION	TYPE OF CONDUIT
BURIED IN CONCRETE OR MASONRY, DIRECT BURIED OR OUTDOORS	PVC SHEDULE 40
STUB-UPS AND ELBOWS AT DISTRIBUTION EQUIPMENT AND MAIN HANDHOLES	GALV. RIGID STEEL WITH CORROSION PROTECTION WRAP WITH GROUNDING BUSHINGS
BRANCH CIRCUITS AT PULL BOXES OR LIGHT POLES	PVC SHEDULE 40 WITH BELL ENDS
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY APPROVED.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
- ALL EQUIPMENT AND WIRING SHALL BE WEATHERPROOF.
- CABLE TRENCH SHALL BE 24" DEEP FROM THE TOP OF THE CONDUIT MINIMUM WITH 4" SAND BEDDING AND 6" SAND COVER INSTALLED OVER CABLE BEFORE BACKFILLING. SEE DETAIL A/E-4.
- CABLE RUNS SHALL BE MARKED WITH RED DETECTABLE MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE.
- BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CABLE.
- SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE SHALL BE COORDINATED WITH OTHER EXISTING UNDERGROUND UTILITIES AND APPROVED BY THE PORT.
- CONTRACTOR TO COORDINATE ELECTRICAL SERVICE INSTALLATION & ACTIVATION WITH SFPUC & PG&E
 - SFPUC CONTACT & PHONE #: MR. BHASKER GOSWAMI @ (415) 554-3135
 - PG&E CONTACT & PHONE #: MR. SEAN SANDERS @ (415) 695-3597
- THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ADDITIONAL COST INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.

DRAWING LIST

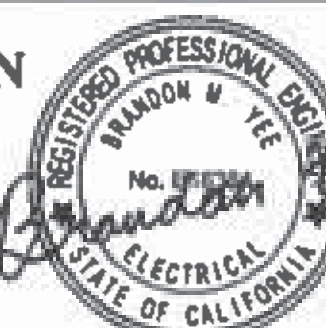
E-0	COVER SHEET - ELECTRICAL SYMBOLS, GENERAL ELECTRICAL NOTES & DRAWING LIST
E-1	POWER PLAN
E-2	METERING/CONTROL PEDESTAL & MISC. DETAILS
E-3	TRENCH DETAILS AND ELECTRICAL HANDHOLE DETAILS
E-4	SINGLE-LINE DIAGRAM, TIMER SWITCH WIRING DETAIL & PANEL 'P1' SCHEDULE
S-1	CONCRETE PAD
<u>SFDPW CURB RAMPS STANDARD PLANS</u>	
CR-1	STANDARD CURB RAMP PLANS AND GENERAL NOTES
CR-2	DETECTABLE SURFACE LAYOUT DETAILS AND NOTES
CR-3	ALTERNATE CURB RAMPS
<u>"FOR REFERENCE ONLY" DRAWINGS:</u>	
PG&E	CONSTRUCTION SKETCH



NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SAN FRANCISCO PORT COMMISSION
PORT OF SAN FRANCISCO
 DEPARTMENT OF ENGINEERING



DESIGNED: DATE:	05/06/16
BY:	
DRAWN: DATE:	05/06/16
BY:	
CHECKED: DATE:	05/06/16
GC:	

APPROVED BY:	SAN FRANCISCO PORT COMMISSION
DATE:	11/1/16
CHIEF HARBOR ENGINEER	

SCALE:	NONE
REV. NO.	01

SEAWALL 321	
PARKING LOT ELECTRICAL SERVICE PROJECT	
COVER SHEET ELECTRICAL SYMBOLS, GENERAL ELECTRICAL NOTES & DRAWING LIST	

CONTRACT NO.	2773
DRAWING NO.	18270-321-E
E-0	
1 OF 6	

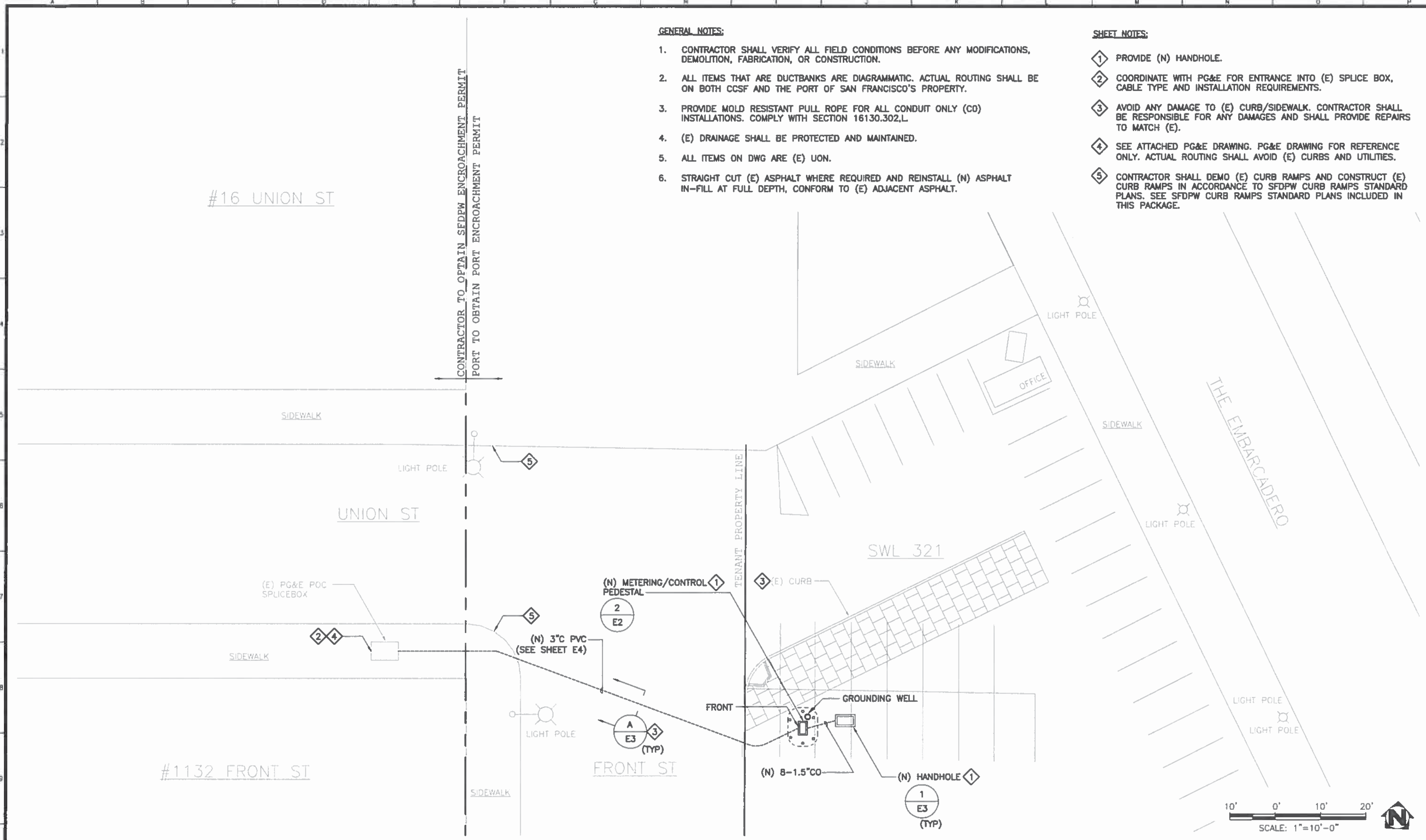
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Plot Time: Tue, 25 Oct 2016 10:03am
Measurement Units are English Units: Feet

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE ANY MODIFICATIONS, DEMOLITION, FABRICATION, OR CONSTRUCTION.
2. ALL ITEMS THAT ARE DUCTBANKS ARE DIAGRAMMATIC. ACTUAL ROUTING SHALL BE ON BOTH CCSF AND THE PORT OF SAN FRANCISCO'S PROPERTY.
3. PROVIDE MOLD RESISTANT PULL ROPE FOR ALL CONDUIT ONLY (CO) INSTALLATIONS. COMPLY WITH SECTION 16130.302.L
4. (E) DRAINAGE SHALL BE PROTECTED AND MAINTAINED.
5. ALL ITEMS ON DWG ARE (E) UON.
6. STRAIGHT CUT (E) ASPHALT WHERE REQUIRED AND REINSTALL (N) ASPHALT IN-FILL AT FULL DEPTH, CONFORM TO (E) ADJACENT ASPHALT.

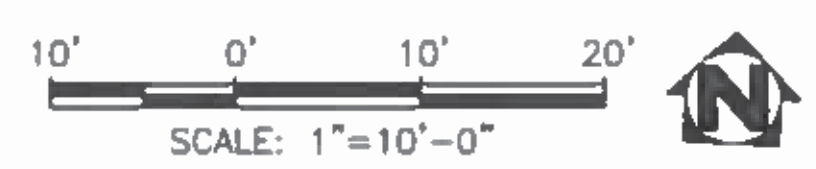
SHEET NOTES:

- 1 PROVIDE (N) HANDHOLE.
- 2 COORDINATE WITH PG&E FOR ENTRANCE INTO (E) SPLICE BOX, CABLE TYPE AND INSTALLATION REQUIREMENTS.
- 3 AVOID ANY DAMAGE TO (E) CURB/SIDEWALK. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES AND SHALL PROVIDE REPAIRS TO MATCH (E).
- 4 SEE ATTACHED PG&E DRAWING. PG&E DRAWING FOR REFERENCE ONLY. ACTUAL ROUTING SHALL AVOID (E) CURBS AND UTILITIES.
- 5 CONTRACTOR SHALL DEMO (E) CURB RAMPS AND CONSTRUCT (E) CURB RAMPS IN ACCORDANCE TO SDFPW CURB RAMPS STANDARD PLANS. SEE SDFPW CURB RAMPS STANDARD PLANS INCLUDED IN THIS PACKAGE.



CONTRACTOR TO OBTAIN SFDW ENCROACHMENT PERMIT
PORT TO OBTAIN PORT ENCROACHMENT PERMIT

TENANT PROPERTY LINE



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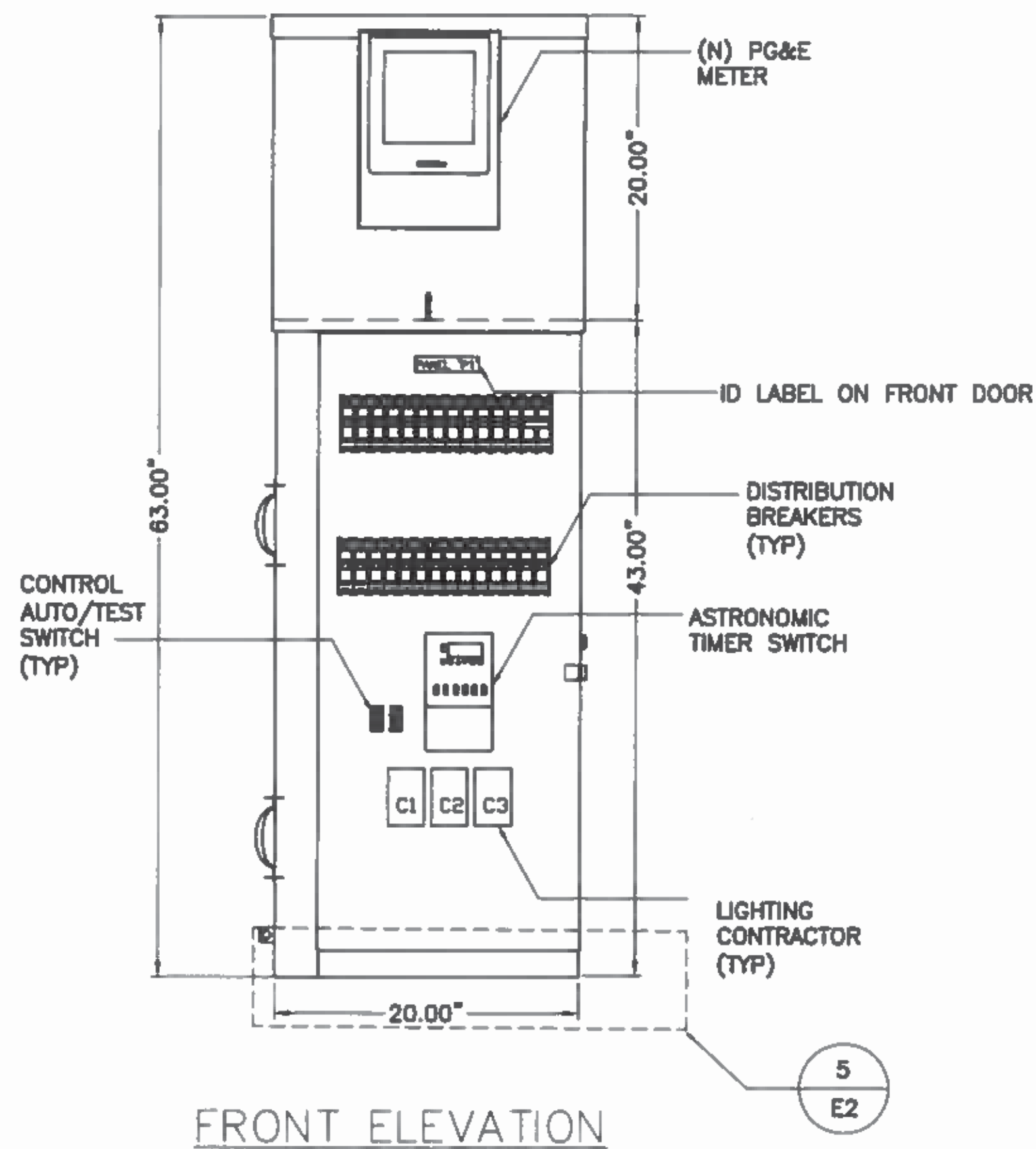
APPROVED BY: SAN FRANCISCO PORT COMMISSION
DATE: 11/1/16
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CHIEF HARBOR ENGINEER

SCALE:
1"=20'-0"
REV. NO.
01

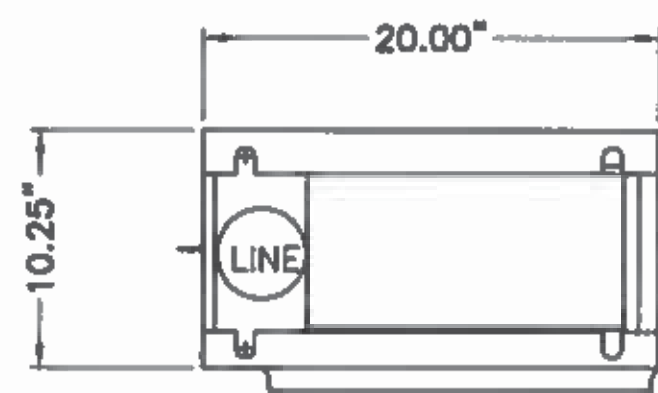
SEAWALL 321
PARKING LOT ELECTRICAL SERVICE PROJECT
POWER PLAN

CONTRACT NO.
2773
DRAWING NO.
18272-321-E
E-1
2 OF 6

Drawing Path: C:\Users\paul\AppData\Local\Temp\AcPublish_2120\SWL321_ParkingLotElectSvcProject -10_05_2016\Drawings\SWL321.dwg
Plot Time: Tue, 25 Oct 2016 - 10:03am
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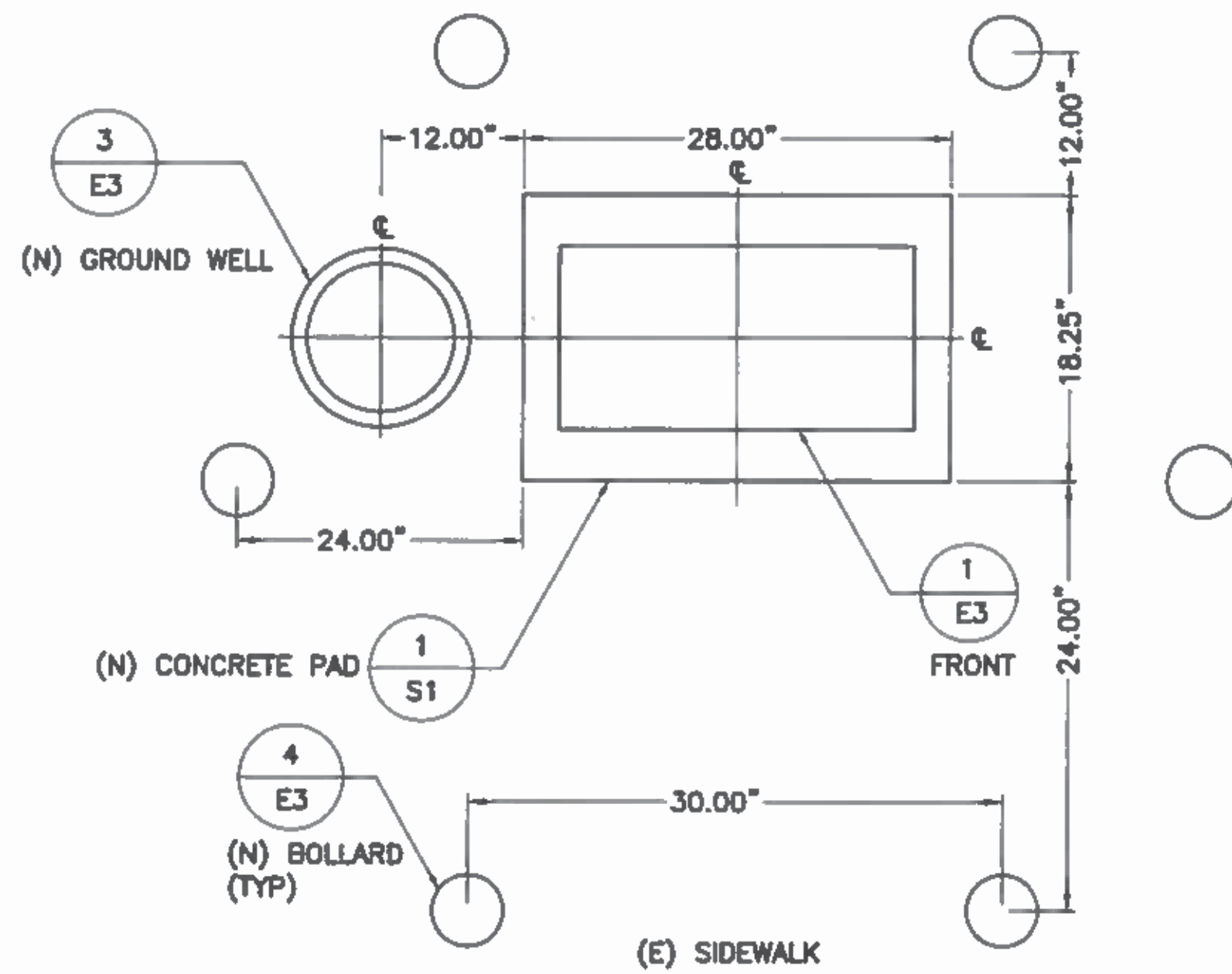


FRONT ELEVATION

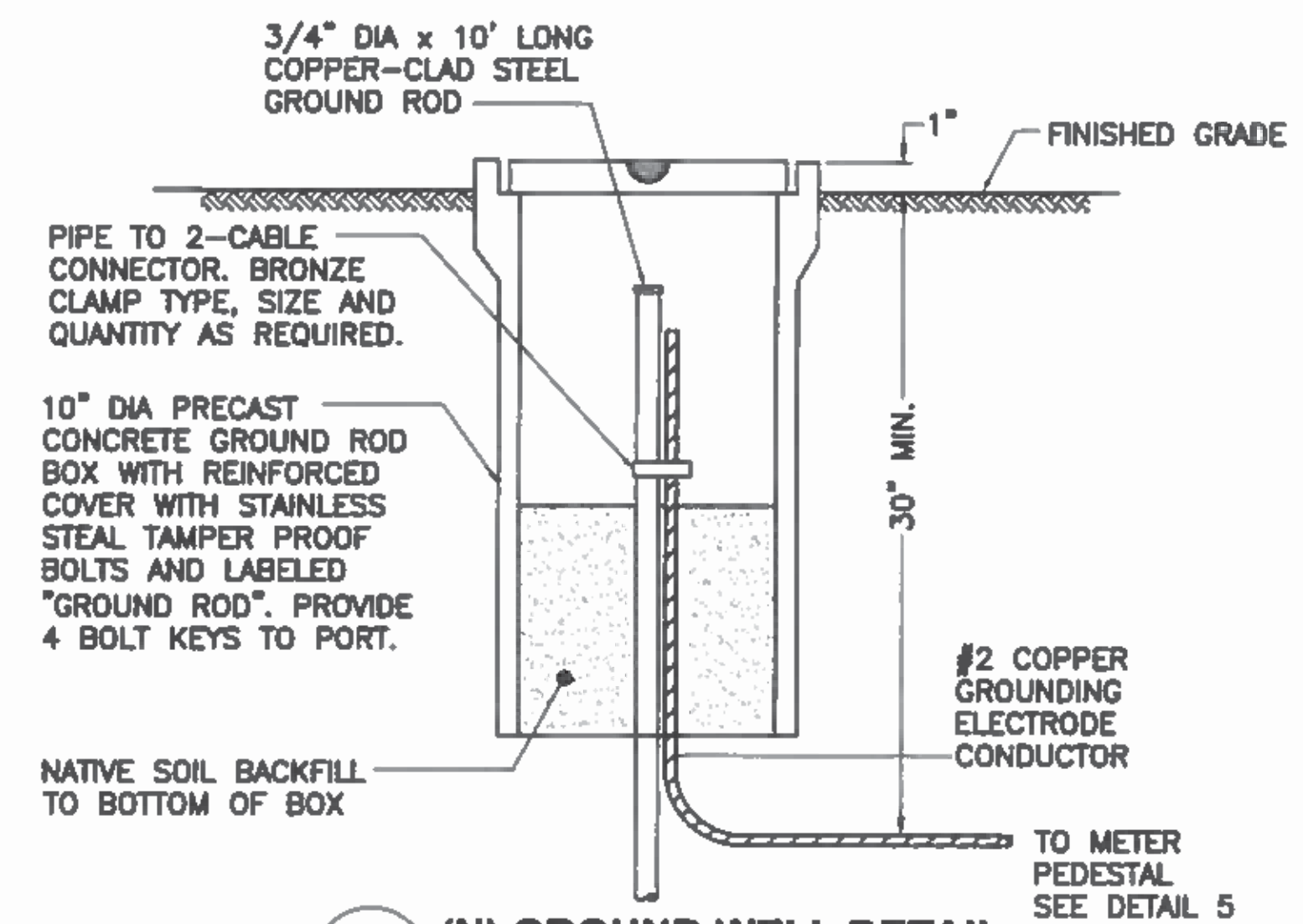


PLAN

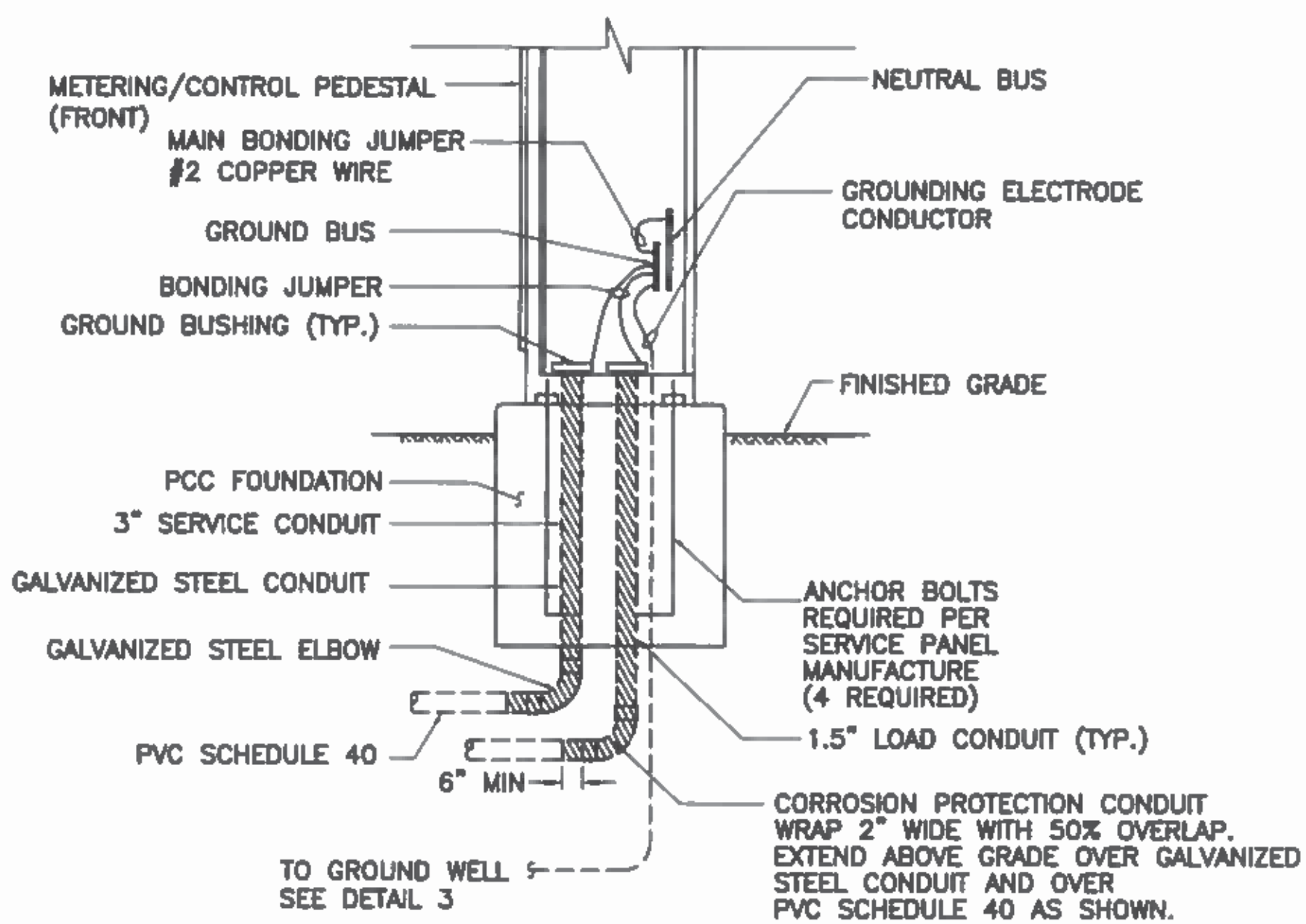
1 (N) METERING/CONTROL PEDESTAL DETAIL
E2 AS SHOWN



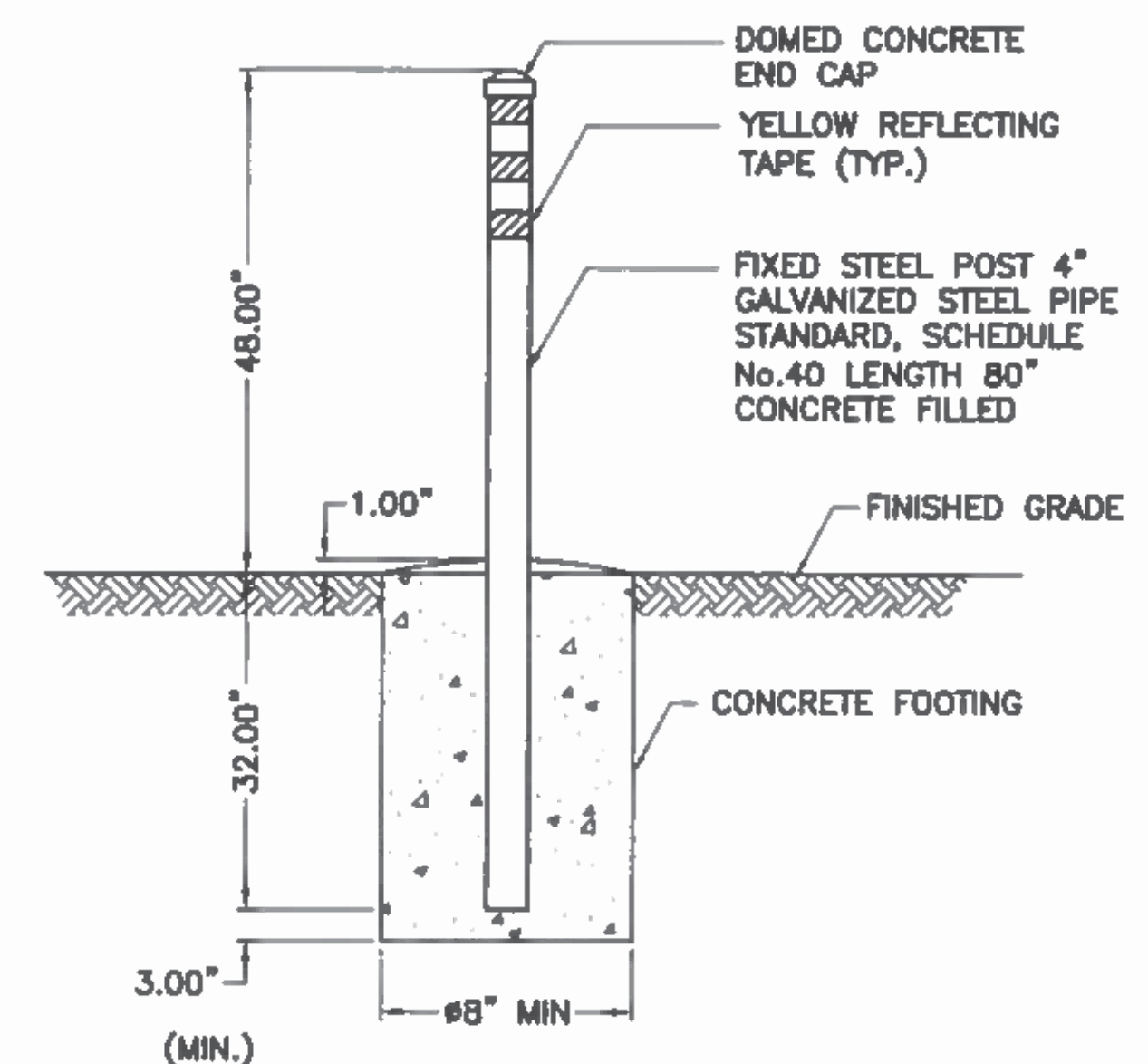
2 (N) METERING/CONTROL PEDESTAL LAYOUT
AS SHOWN



3 (N) GROUND WELL DETAIL
AS SHOWN



5 (N) GROUNDING DETAIL
AS SHOWN



4 (N) BOLLARD DETAIL
AS SHOWN

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DATE: 11/1/16
[Signature]
CHIEF HARBOR ENGINEER

SCALE: NONE
REV. NO. 01

SEAWALL 321
PARKING LOT ELECTRICAL SERVICE PROJECT
METERING/CONTROL PEDESTAL & MISC. DETAILS

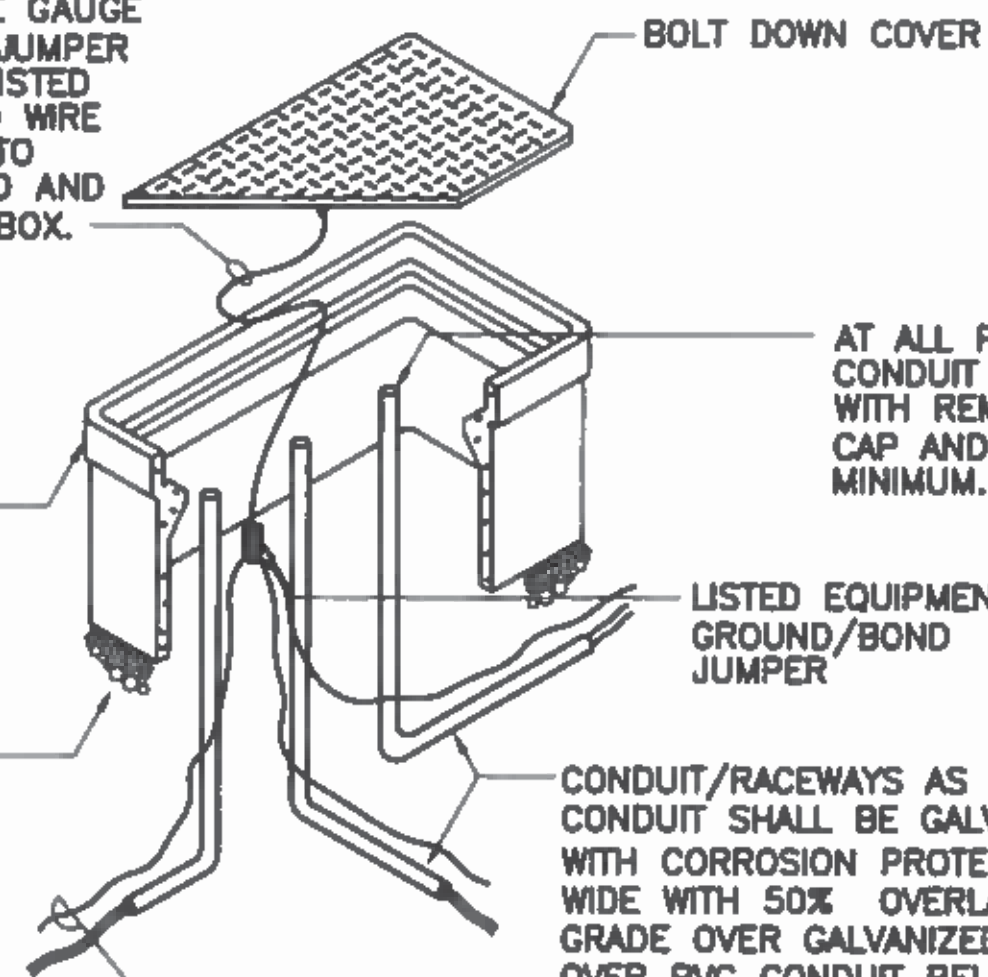
CONTRACT NO. 2773
DRAWING NO. 18274-321-E
E-2
3 OF 6

COVERS SHALL BE BONDED TO EQUIPMENT GROUND CONDUCTOR. BOND WIRE SHALL BE THE SAME WIRE GAUGE AS EQUIPMENT GROUND/BOND JUMPER AND SHALL BE BONDED WITH LISTED GROUNDING TERMINATION. BOND WIRE SHALL OF SUFFICIENT LENGTH TO ALLOW THE LID TO BE REMOVED AND SET ASIDE 2' FROM THE PULL BOX.

1-#6 AWG CU BARE STRANDED GROUND BOND WIRE. GROUND WIRE TO BE 3" DIRECTLY ABOVE CONDUIT.

PROVIDE CONCRETE COLLAR
SEE 2
E3

6" ROCK GRAVEL BED



AT ALL PULLBOXES ENDS OF CONDUIT SHALL BE PROVIDED WITH REMOVABLE WATERPROOF CAP AND STUB-UP 3" MINIMUM.

LISTED EQUIPMENT GROUND/BOND JUMPER

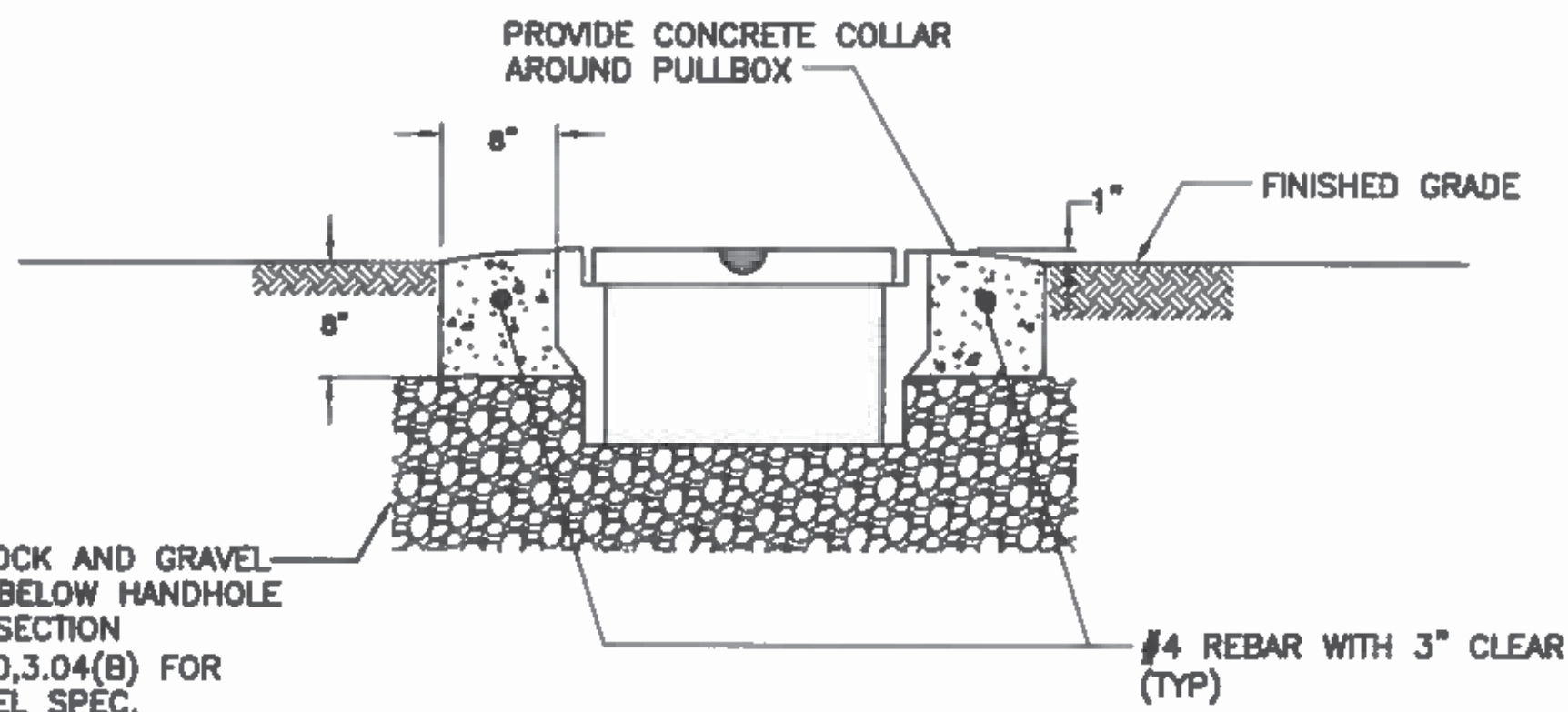
CONDUIT/RACEWAYS AS CALLED FOR ON PLANS. CONDUIT SHALL BE GALVANIZED STEEL ELBOWS WITH CORROSION PROTECTED CONDUIT WRAP 2" WIDE WITH 50% OVERLAP. EXTEND ABOVE GRADE OVER GALVANIZED STEEL CONDUIT AND OVER PVC CONDUIT BELOW GRADE.

1-#2 AWG CU BARE STRANDED GROUND BOND WIRE. GROUND WIRE TO BE 3" DIRECTLY ABOVE CONDUIT.

NOTES:

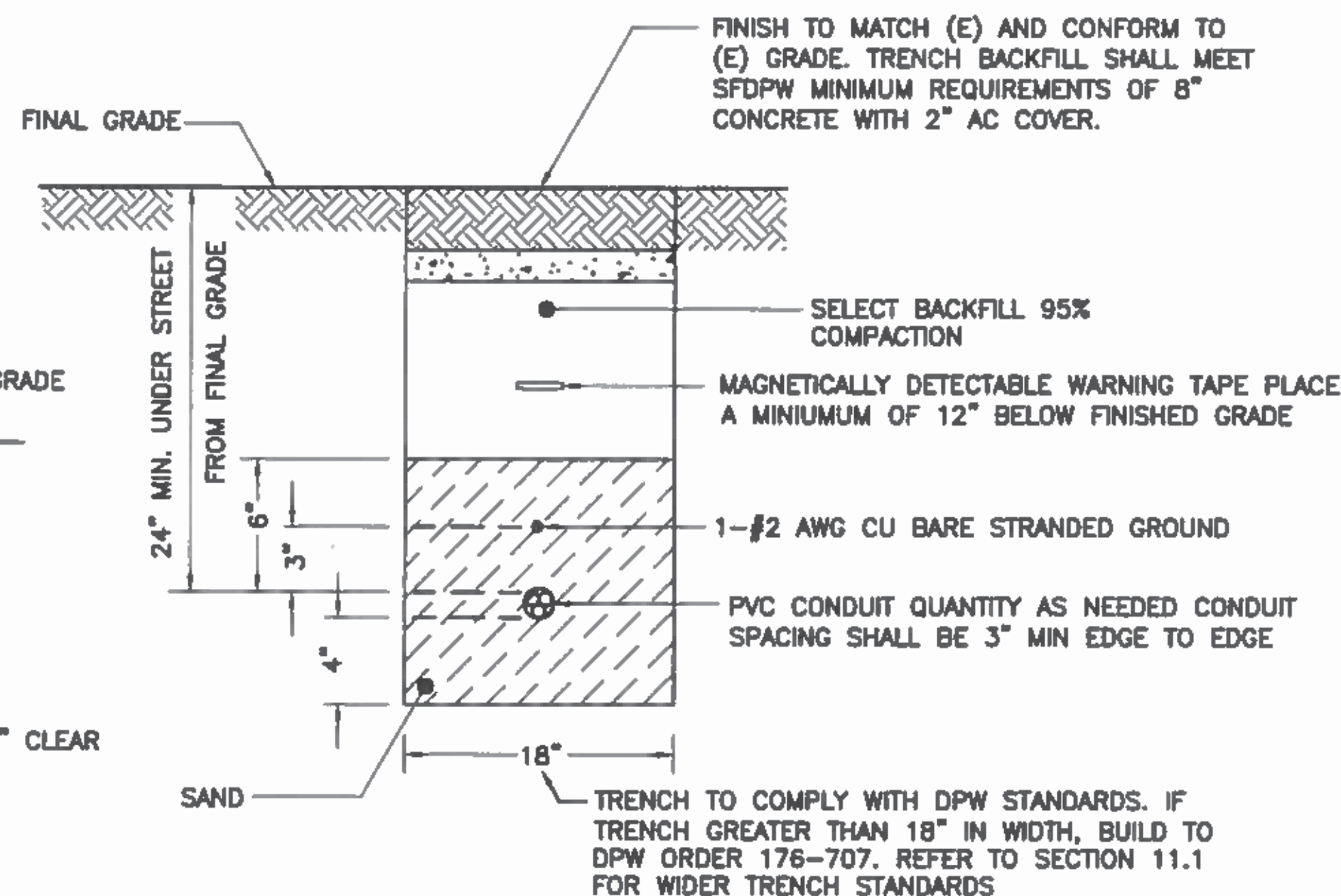
- 1) INSIDE DIMENSIONS TO BE: 14" x 24" MIN UON
- 2) PROVIDE TRAFFIC RATED UTILITY BOXES.
- 3) PROVIDE EXTENSIONS AS REQUIRED.
- 4) PULLBOX TO BE PRECAST H-20 RATED.
- 5) COVER SHALL BE PROVIDED WITH STAINLESS STEEL VANDAL PROOF BOLTS WITH TWO SETS OF SPECIALTY KEYS. LOCATED BOLT KEYS IN METERING/CONTROL PEDESTAL.

1 (N) ELECTRICAL HANDHOLE DETAIL
E3 AS SHOWN



6" ROCK AND GRAVEL BED BELOW HANDHOLE SEE SECTION 16130.3.04(B) FOR GRAVEL SPEC.

2 (N) ELECTRICAL HANDHOLE COLLAR
E3 AS SHOWN



A (N) TRENCH DETAIL
E3

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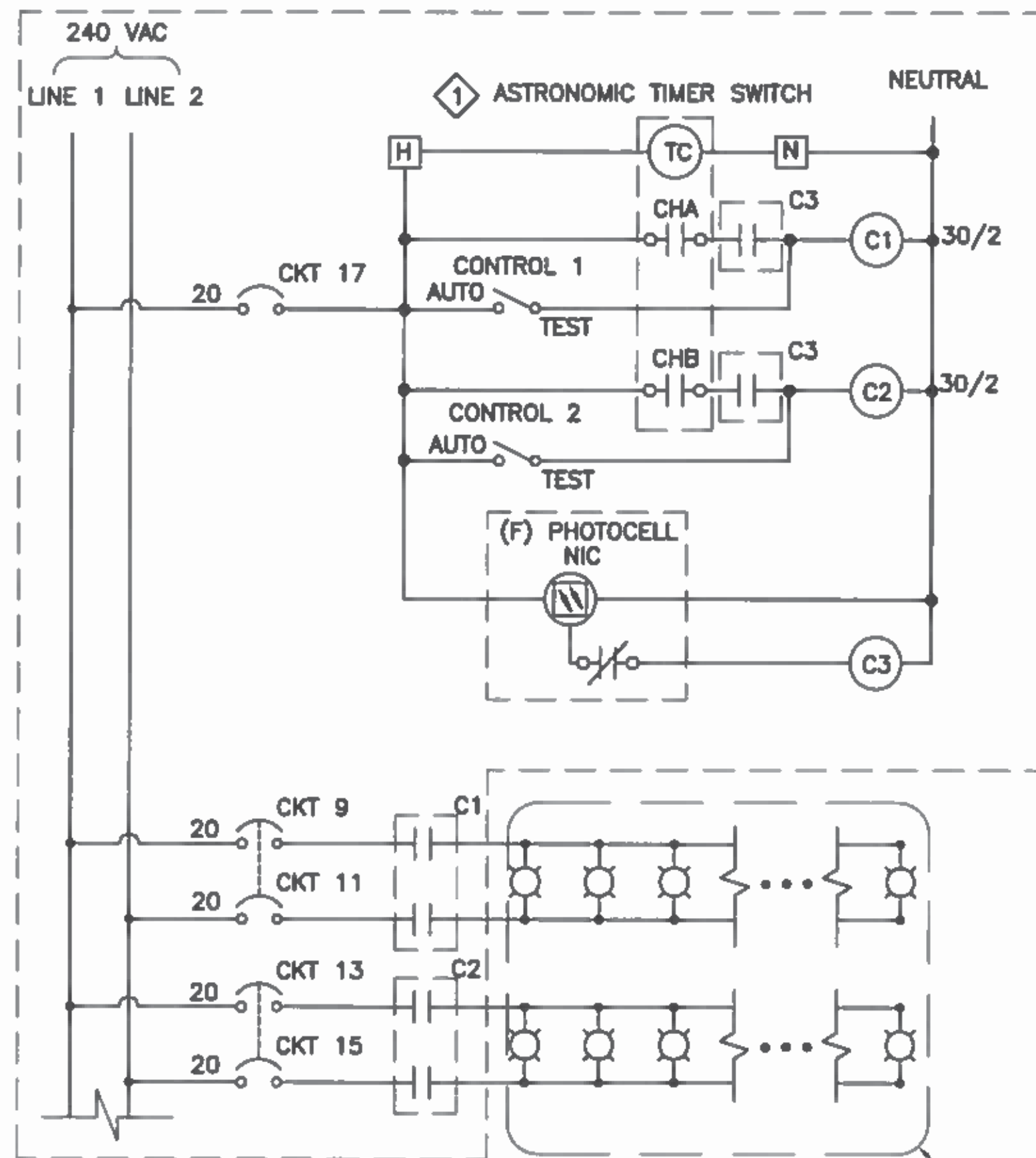
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DATE: 11/11/16
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CHIEF HARBOR ENGINEER

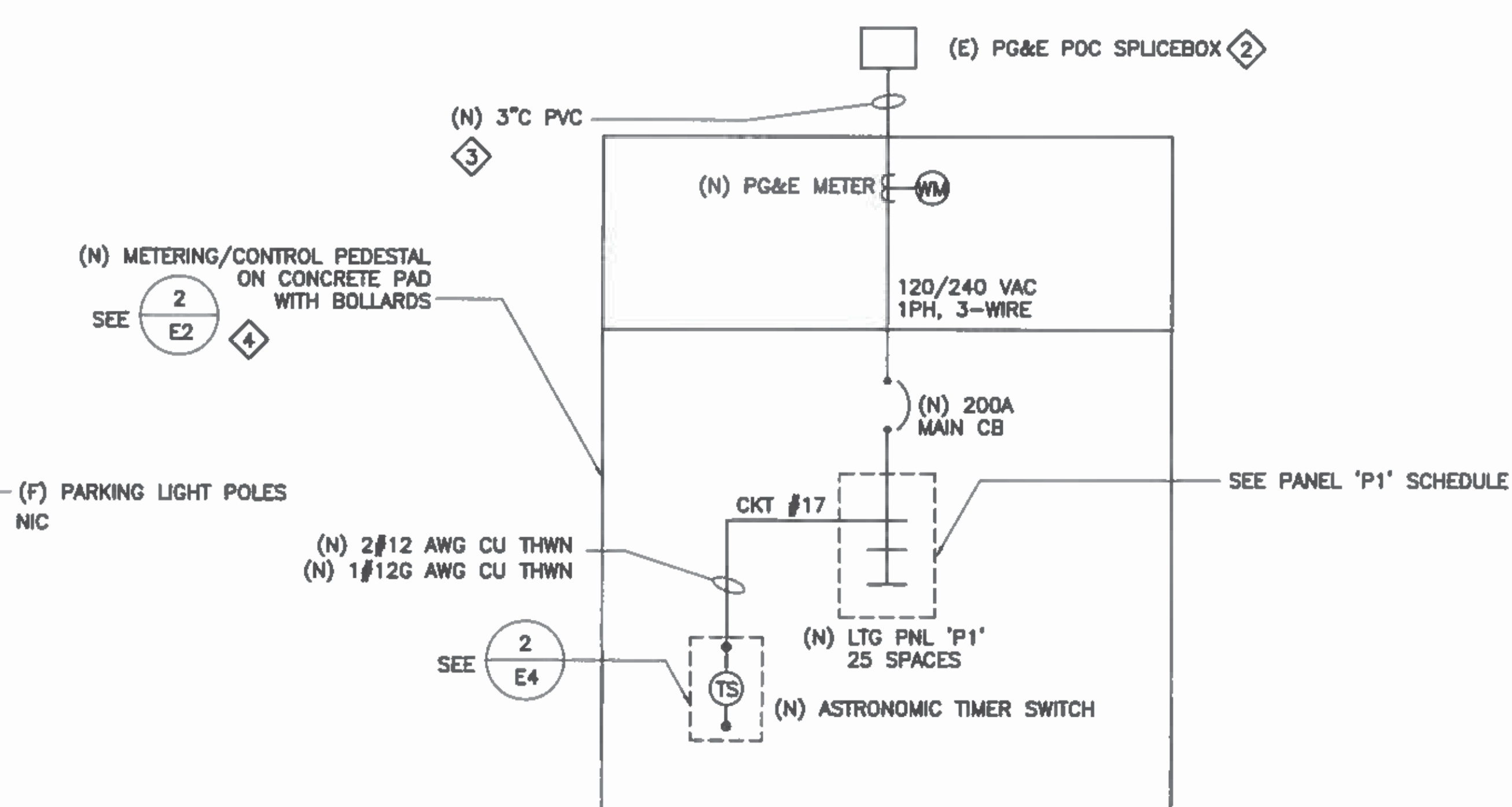
SCALE: NONE
REV. NO. 01

SEAWALL 321
PARKING LOT ELECTRICAL SERVICE PROJECT
TRENCH DETAILS AND ELECTRICAL HANDHOLE DETAILS

CONTRACT NO. 2773
DRAWING NO. 18273-321-E
E-3
4 OF 6



2 **ASTRONOMIC TIMER SWITCH WIRING DETAILS**
E4 AS SHOWN



1 **SINGLE-LINE DIAGRAM**
E4 AS SHOWN

PANEL: PANEL 'P1'		VOLTAGE: 240/120 VAC								
BUS: 200A		KAIC: 10								
MAIN: 200A		LOCATION: (N) METERING/CONTROL PEDESTAL								
PHASE: 1PH, 3W		MOUNTING: FLUSH								
NEMA: NEMA 3R		REMARKS: INCORPORATED INTO METERING PEDESTAL								
PH A	PH B	DESCRIPTION	CB/POLE	TYPE	CKT	TYPE	CB/POLE	DESCRIPTION	PH A	PH B
3150	VA	(F) TENANT BOOTH 1	20/1	V	01 02	C	40/2	(F) 32A CAR CHARGERS (DUAL PORT CHARGER)	3840	3840
3150	VA	(F) TENANT BOOTH 1	20/1	V	03 04	C	40/2	(F) 32A CAR CHARGERS (DUAL PORT CHARGER)	3840	3840
3150	VA	(F) TENANT BOOTH 2	20/1	V	05 06	C	40/2	(F) 32A CAR CHARGERS (DUAL PORT CHARGER)	3840	3840
3150	VA	(F) TENANT BOOTH 2	20/1	V	07 08	C	40/2	(F) 32A CAR CHARGERS (DUAL PORT CHARGER)	3840	3840
260		(F) PARKING LIGHTS POLES	20/2	L	09 10	C	40/2	(F) 32A CAR CHARGERS (DUAL PORT CHARGER)	3840	3840
260		(F) PARKING LIGHTS POLES	20/2	L	11 12	C	40/2	(F) 32A CAR CHARGERS (DUAL PORT CHARGER)	3840	3840
260		(F) PARKING LIGHTS POLES	20/2	L	13 14	S	20/1	SPARE	1000	1000
260		(F) PARKING LIGHTS POLES	20/2	L	15 16	S	20/1	SPARE	1000	1000
600		ASTRONOMIC TIMER SWITCH	20/1	V	17 18	S	20/1	SPARE	1000	1000
1000		SPARE	20/1	S	19 20			SPARE		
		SPACE			21 22			SPACE		
		SPACE			23 24			SPACE		
		SPACE			25			SPACE		

Type	Connected (VA)	Demand (VA)	Ph.	Load (VA)
C CHARGERS	23,040	23,040	A	20,940
H HVAC UNIT	-	-	B	20,340
M MOTORS	-	-		
S SPARE	4,000	4,000		
L LIGHTING	1,040	1,300		
V VARIOUS	13,200	9,900		
R RECEPT.	-	-		
TOTAL	41,280	38,240		= 159 Amps

5 **(N) PANEL 'P1' SCHEDULE**

- SHEET NOTES:**
- CONTRACTOR SHALL TEST ASTRONOMIC TIMER CONTROLLER AND RELAYS. PROVIDE TEMPORARY SWITCH TO POWER RELAY C3 COIL FOR TESTING. CONTRACTOR SHALL REPLACE ANY ITEMS THAT DO NOT FUNCTION AS DESIGNED.
 - COORDINATE WITH PG&E SERVICE PLANNING FOR NEW ELECTRICAL SERVICE.
 - COORDINATE WITH PG&E FOR CABLE, CABLE INSTALLATION AND CABLE TERMINATIONS.
 - PROVIDE (N) TESCO TYPE 27-100 (OR EQUAL), 120/240V, 1PH, 3-WIRE, 316 STAINLESS STEEL, METERING/CONTROL PEDESTAL WITH 200A PG&E APPROVED METERING SECTION, 25 CIRCUIT DISTRIBUTION SECTION, LIGHTING CONTRACTORS, TWO CHANNEL ASTRONOMIC TIMER SWITCH AND IN A OUTDOOR STAINLESS STEEL ENCLOSURE WITH VANDAL RESISTANT PAD LOCKABLE DOOR.
 - FUTURE LOADS SHOWN ARE FOR REFERENCE ONLY. PARKING OPERATOR SHALL APPLY LOADS TO CIRCUITS AS REQUIRED WITH (N) SCHEDULE.

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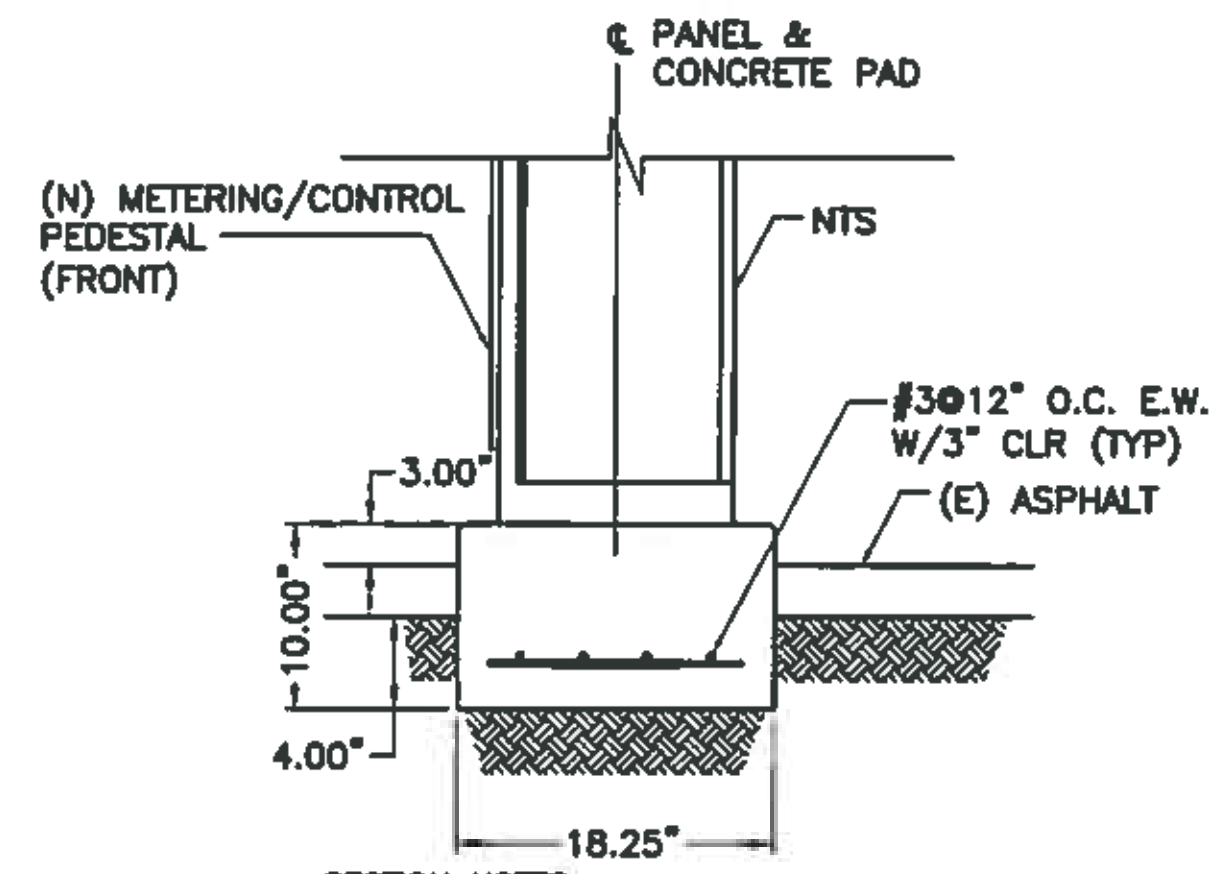
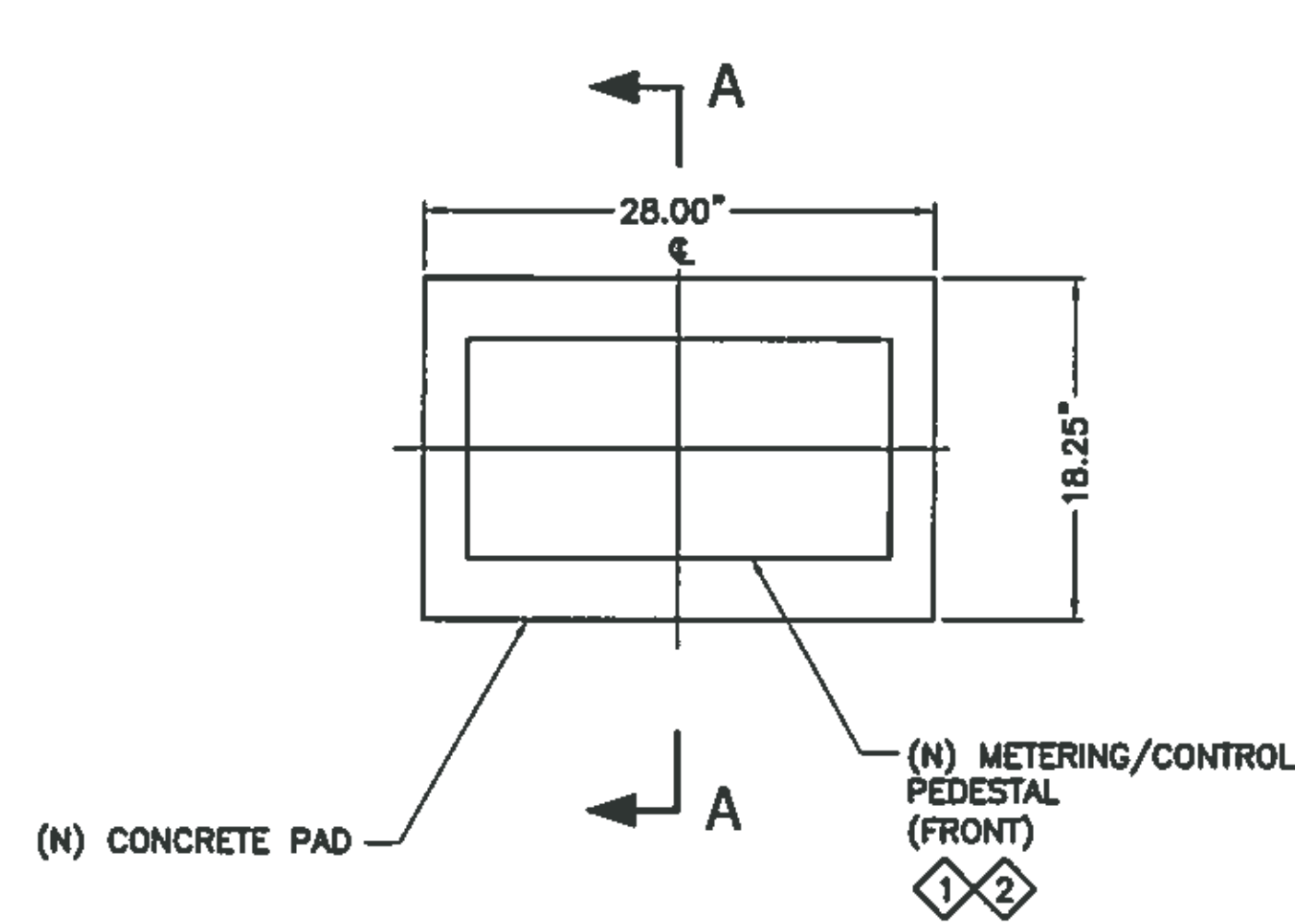
SCALE: NONE
 REV. NO: 01

SEAWALL 321
PARKING LOT ELECTRICAL SERVICE PROJECT
 SINGLE-LINE DIAGRAM,
 TIMER SWITCH WIRING DETAIL &
 PANEL 'P1' SCHEDULE

CONTRACT NO. 2773
 DRAWING NO. 18275-321-E
E-4
 5 OF 6

SHEET NOTES:

- ① CONTRACTOR SHALL CONFIRM THAT SERVICE PEDESTAL IS CENTERED ON CONCRETE PAD WITH 4" CLEARANCE FROM EDGE OF PEDESTAL TO EDGE OF PAD ON ALL SIDES.
- ② CONTRACTOR SHALL PROVIDE ANCHORAGE FOR SERVICE PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.



SECTION NOTES:

1. CUT AND RESTORE (E) ASPHALT AS REQUIRED TO INSTALL (N) PAD
2. REINFORCING STEEL ASTM A615, GR. 60.
3. CONCRETE MIX SHALL HAVE COMPRESSIVE STRENGTH OF 3 ksi, 3/4" MAX AGGREGATE, AND 4" MAX SLUMP

A-A

① (N) METERING/CONTROL PEDESTAL CONCRETE PAD
S1 AS SHOWN



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SAN FRANCISCO PORT COMMISSION
PORT OF SAN FRANCISCO
DEPARTMENT OF ENGINEERING

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WL	11/19/15
DRAWN:	DATE:
BY	11/19/15
CHECKED:	DATE:
GC	11/--/15

APPROVED BY
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REV. NO.	01

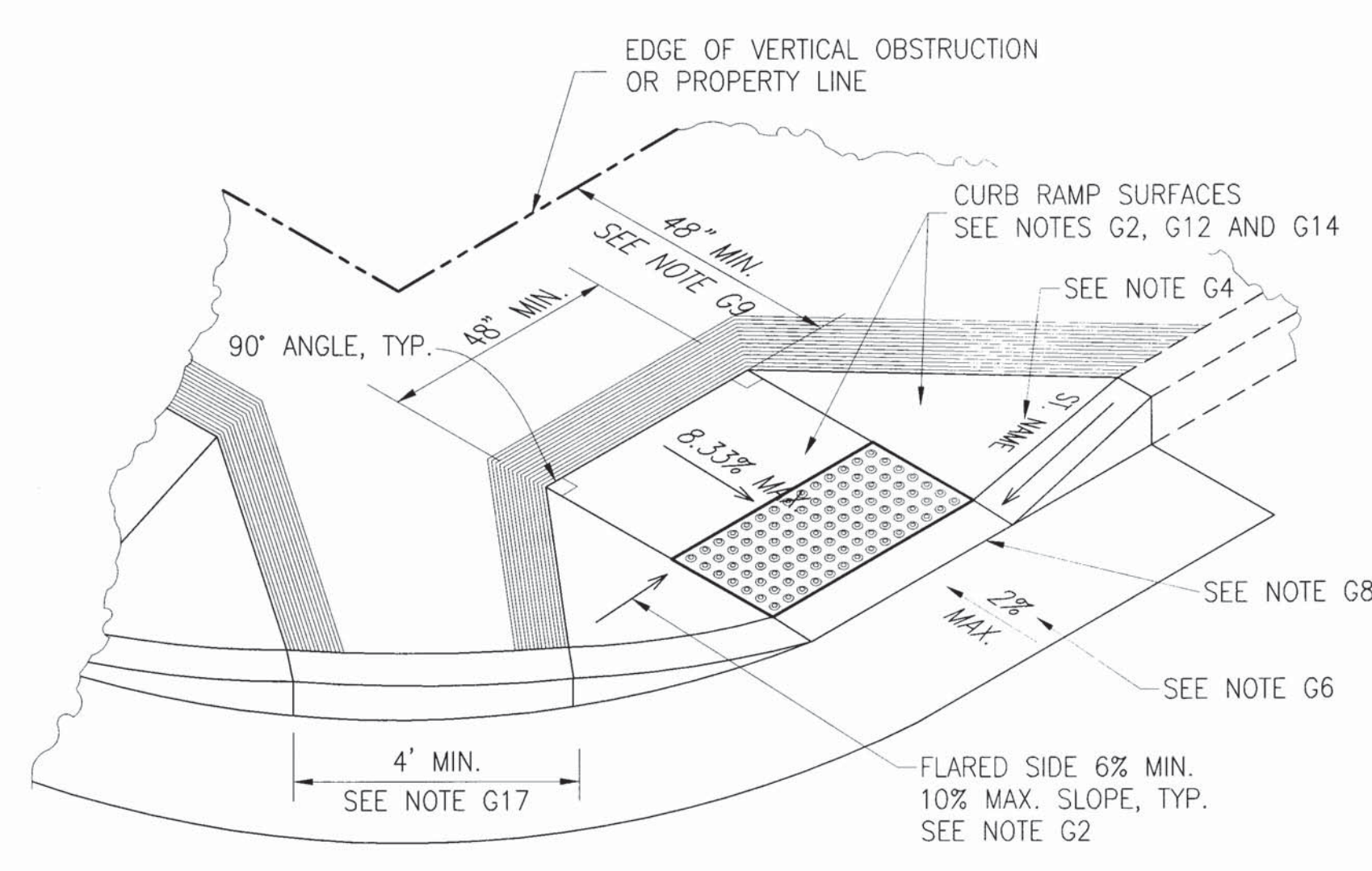
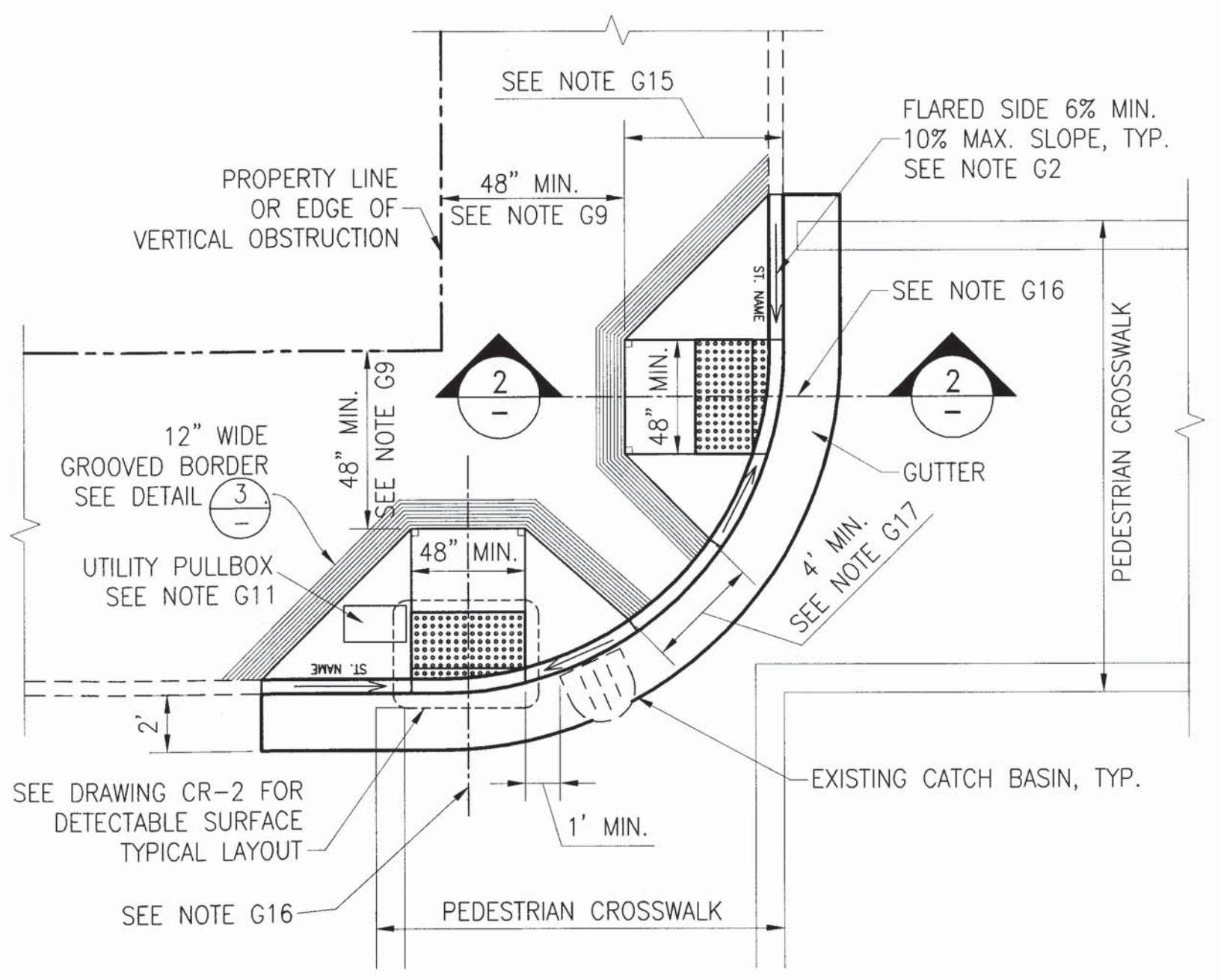
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PARKING LOT ELECTRICAL SERVICE PROJECT

CONCRETE PAD

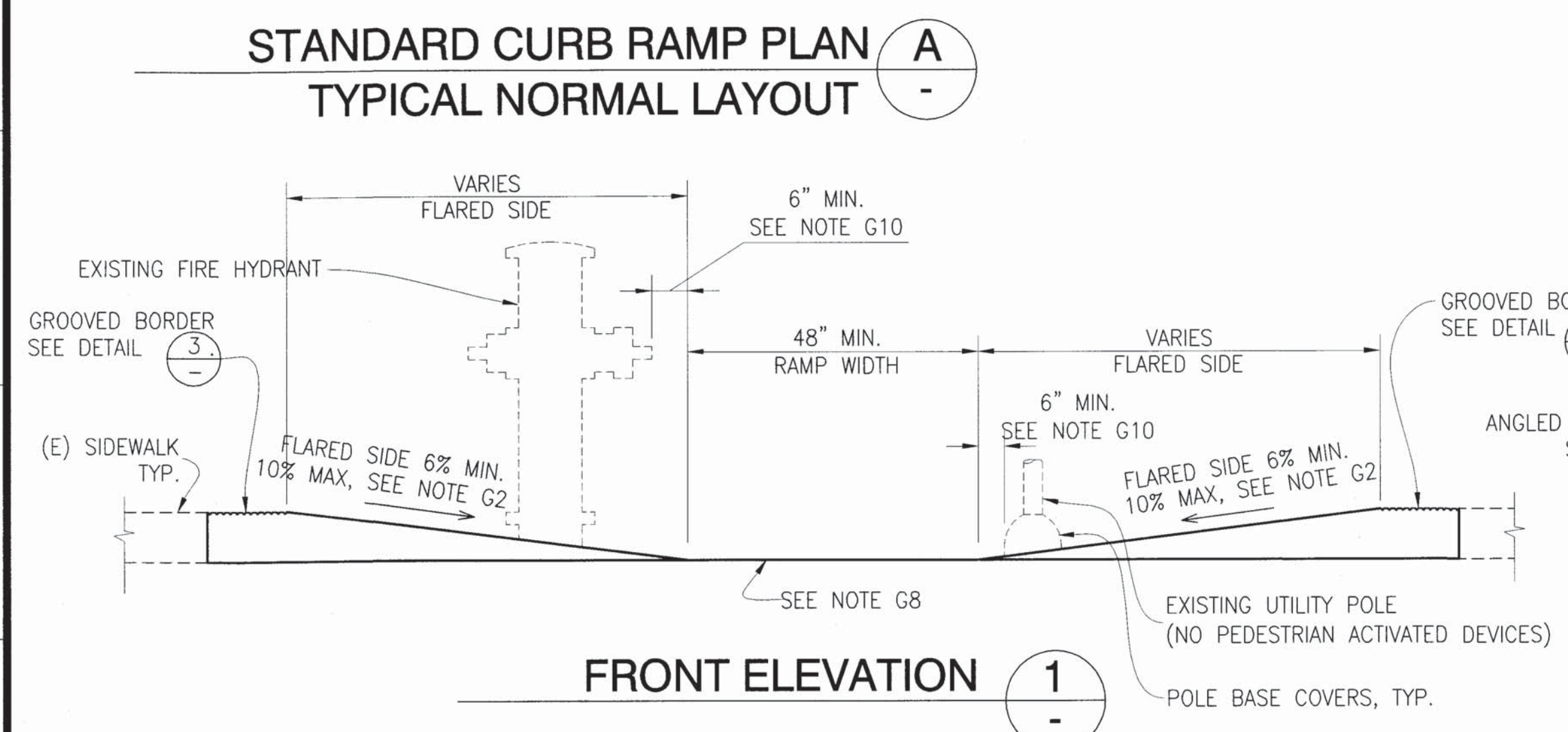
CONTRACT NO.	2773
DRAWING NO.	18276-321-E
S-1	
6 OF 6	

GENERAL NOTES

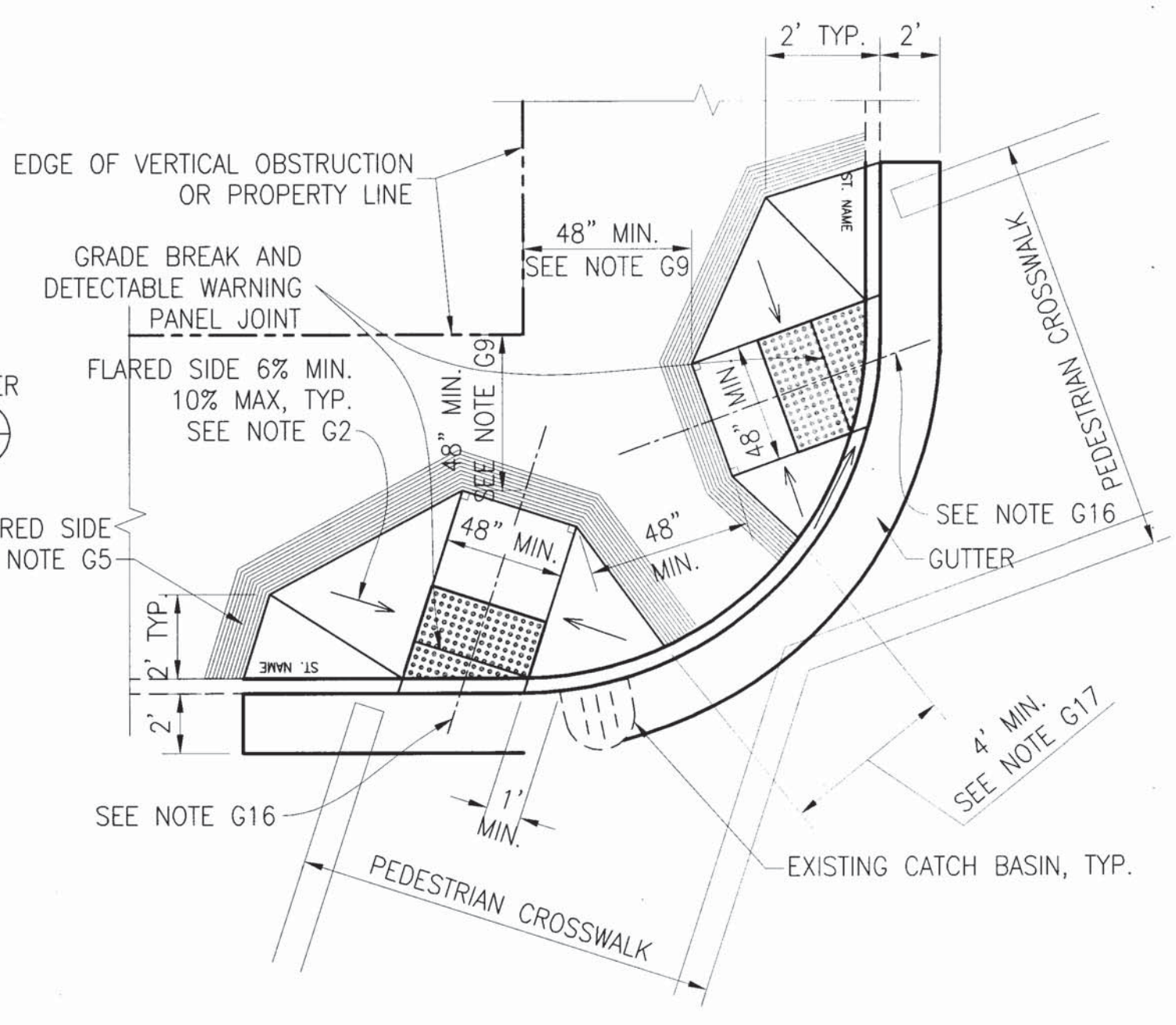
- G1. THE STANDARD CURB RAMP DRAWINGS FILE NO. 55,017 REV.4 AND 55,018 REV.4 SUPERSEDE ALL PREVIOUS DRAWINGS. DRAWING FILE NO. 55,017.1 SHALL BE PART OF THE NEW CURB RAMP STANDARD DRAWINGS. ALL WORK SHALL CONFORM TO SFPD/PW STANDARD PLANS AND SPECIFICATIONS, LATEST VERSIONS.
- G2. A "CURB RAMP" IS DEFINED AS THE ENTIRE CONCRETE SURFACE AREA WHICH INCLUDES THE RAMP AND THE FLARED SIDES. THE "RAMP" IS DEFINED AS THE 4-FOOT WIDE CENTER PORTION INCLUDING THE DETECTABLE SURFACE, AND SHALL LIE IN A SLOPED PLANE OF 8.33% (1:12) MAXIMUM AND CROSS SLOPE NOT TO EXCEED 2%. THE "FLARED SIDE" IS DEFINED AS THE AREA ON EITHER SIDE OF THE RAMP AND SHALL LIE ON A SLOPED PLANE OF 6% MINIMUM AND 10% (1:10) MAXIMUM MEASURED PERPENDICULAR TO THE RAMP. THE CURB RAMP SURFACES SHALL HAVE A SURFACE FLATNESS TOLERANCE OF 1/4 INCH PER 10-FOOT STRAIGHT EDGE MAXIMUM. ALL SURFACES SHALL BE GENERALLY PLANAR WITH A MINIMUM DEGREE OF WARPING.
- G3. THE STANDARD CURB RAMP LAYOUT SHALL BE USED WHENEVER POSSIBLE. ANY DEVIATION FROM THE STANDARD CURB RAMP PLANS SHALL BE APPROVED BY THE CITY ENGINEER, DPW DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE ON A CASE BY CASE BASIS AND WHEN ADEQUATE DOCUMENTATION FOR EVIDENCE OF HARDSHIP IS PROVIDED.
- G4. THE STREET NAME SHALL BE STAMPED IN BOLD UPPERCASE LETTERS 4-INCH HIGH AND 1/2-INCH DEEP ON THE FLARED SIDE PORTION OF THE CURB RAMP FARTHEST FROM ANGULAR CORNER OR ON AN ADJACENT SIDEWALK FLAG AS DIRECTED BY THE ENGINEER.
- G5. WHEN VERTICAL OBSTRUCTIONS ARE PRESENT NEAR THE CURB AT THE END OF THE FLARED SIDE, OR WHEN THE CURB RAMP IS DIAGONAL TO THE CURB THAT WILL RESULT IN AN EXTREMELY LONG FLARED SIDE SURFACE, THEN THE AFFECTED FLARED SIDE MAY BE TRUNCATED, PROVIDED THAT THE REQUIRED SLOPE IS ACHIEVED ON EACH OF THE RESULTING PLANES.
- G6. A LEVEL LANDING CONCRETE GUTTER OF 2 FEET MINIMUM DEPTH, 2% MAXIMUM CROSS SLOPE, SHALL BE PROVIDED AT THE LOWER END OF THE RAMP AND OVER THE FULL WIDTH OF THE RAMP TO ALLOW SAFE EGRESS. THE ALGEBRAIC SUM OF THE OPPOSING SLOPES BETWEEN TWO ADJACENT SURFACES SHALL NOT EXCEED 10.33%.
- G7. THE CURB RAMP SHALL BE BOUNDED BY A 12-INCH WIDE GROOVED BORDER SEE DRAWING CR-1, DETAIL 3.
- G8. THE BOTTOM OF THE RAMP SHALL BE FLUSH WITH THE LOWER LANDING (NO LIP).
- G9. A LEVEL LANDING 4 FEET DEEP MINIMUM, 2% MAXIMUM SLOPE EACH DIRECTION, SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP TO ALLOW SAFE EGRESS FROM THE RAMP SURFACE. THE WIDTH OF THE LEVEL LANDING SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP.
- G10. EXISTING VERTICAL OBSTRUCTIONS, UTILITY POLES OR STREET FURNITURE MAY BE INCORPORATED INTO THE FLARED SIDES IF NECESSARY. THE VERTICAL OBSTRUCTION SHALL BE A MINIMUM OF 6 INCHES AWAY FROM THE EDGE OF THE RAMP. FOR FIRE HYDRANTS, THE 6-INCH CLEARANCE SHALL BE REFERENCED FROM THE NEAREST PROTRUDING PARTS OF THE HYDRANT. PEDESTRIAN CROSSWALK PUSH BUTTON POLES, FIRE AND POLICE DEPARTMENT CALL BOX POLES, AND OTHER POLES WITH PEDESTRIAN ACTIVATED DEVICES MAY NOT BE PLACED IN THE CURB RAMP AT ANY TIME. NO NEW VERTICAL OBSTRUCTIONS MAY BE LOCATED IN THE CURB RAMP OR GROOVED BORDER. SEE DRAWING CR-
- G11. EXISTING UTILITY BOXES AND COVERS SHALL BE ADJUSTED TO CONFORM FLUSH WITH THE CURB RAMP SURFACE AND SHALL NOT STRADDLE ANY CHANGE IN PLANE OR MATERIAL. SUBJECT TO THE APPROVAL OF THE UTILITY BOX OWNER, EXISTING UTILITY BOX FRAMES AND COVERS WITHIN THE DETECTABLE SURFACE AREA SHALL BE RELOCATED OUTSIDE THE DETECTABLE SURFACE AREA. NEW UTILITY BOXES SHALL NOT BE PLACED WITHIN THE GROOVED BORDER OR THE RAMP. SEE DPW ORDER 175,387.
- G12. THE SURFACE OF THE CURB RAMP AND DETECTABLE SURFACE MATERIAL SHALL BE STABLE, FIRM AND SLIP RESISTANT. THE CONCRETE CURB RAMP SURFACE SHALL BE BROOM FINISHED TRANSVERSE TO THE AXIS OF THE RAMP AND SHALL BE SLIGHTLY ROUGHER THAN THE FINISH ON THE ADJACENT SIDEWALK SURFACE. ALL CURB RAMP SURFACES SHALL BE SLIP RESISTANT, INCLUDING CONCRETE OR OTHER APPROVED SURFACE MATERIALS, AND THE DETECTABLE WARNING MATERIAL MEASURED AT THE TOP OF DOMES SURFACES AND THE SURFACE BETWEEN DOMES. SLIP RESISTANCE SHALL BE MEASURED IN ACCORDANCE WITH DPW ORDER 176,112 AND ASTM 8303.
- G13. THE DEPTH OF THE COMBINED CONCRETE CURB AND GUTTER SHALL BE EQUAL TO THE DEPTH OF THE EXISTING PAVEMENT STRUCTURAL SECTION OR 8 INCHES, WHICHEVER IS GREATER.
- G14. ALL CURB RAMPS SHALL BE POURED SEPARATELY FROM, AND SHALL CONTRAST VISUALLY WITH ADJACENT SIDEWALK SURFACES, INCORPORATING A MINIMUM 70% COLOR CONTRAST OF EITHER DARK ON LIGHT OR LIGHT ON DARK. FOR CITY STANDARD SIDEWALKS AS DEFINED IN SECTION 204 OF DPW STANDARD SPECIFICATIONS, THE CURB RAMPS SHALL BE POURED USING A DARK CONCRETE COLOR; FOR SIDEWALKS WITHIN THE DOWNTOWN STREETScape PLAN (C-3 DISTRICTS), AS DEFINED IN DPW ORDER NO. 172,596, THE CURB RAMPS SHALL BE POURED USING THE AFOREMENTIONED CITY STANDARD SIDEWALK SPECIFICATION AND COLOR. TO OBTAIN THE APPROVED DARK COLOR, THE FOLLOWING, OR APPROVED EQUAL, MANUFACTURERS AND COLOR TYPES SHALL BE USED: (1) L.M. SCOFIELD "C-24 CHARCOAL GRAY"; (2) QC INTEGRAL COLORS "C-3 ASH GRAY"; (3) SOLOMON COLORS "CHARCOAL 920".
- G15. THE DEPTH OF THE CURB RAMP SHALL BE CONSTRUCTED UP TO 15 FEET LONG TO ACHIEVE THE SLOPE REQUIREMENTS. IF THE MAX. SLOPE OF 8.33% CANNOT BE ACHIEVED DUE TO THE SLOPE OF THE EXISTING SIDEWALK OR ROADWAY, THE LENGTH OF OF THE CURB RAMP SHALL NOT BE REQUIRED TO BE LONGER THAN 15 FEET REGARDLESS OF THE RESULTING RAMP SLOPE.
- G16. THE RAMP CENTER LINE AND PATH OF TRAVEL MUST BE PARALLEL TO THE CROSSWALK. THE FULL WIDTH OF THE RAMP SHALL LIE WITHIN THE CROSSWALK AREA AND ENTIRELY WITHIN THE CROSSWALK MARKINGS. IT IS DESIRABLE THAT THE LOCATION OF THE RAMP BE AS CLOSE AS POSSIBLE TO THE CENTER OF THE CROSSWALK.
- G17. THE 4-FOOT MINIMUM DISTANCE BETWEEN FLARED SIDES OF TWO ADJACENT CURB RAMPS MAY BE REDUCED WITH DOCUMENTATION OF HARDSHIP INDICATING LEGAL AND OR PHYSICAL CONSTRAINTS PROVIDED TO THE CITY ENGINEER, DPW DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE. SEE SHEET CR-4, NOTE 4.
- G18. THE CONTRACTOR SHALL REFERENCE AND PRESERVE ANY EXISTING MONUMENTS WITHIN THE LIMITS OF WORK. A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR PURSUANT TO THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, SECTION 8771, PRIOR TO ANY WORK COMMENCING. IF ANY MONUMENT IS DESTROYED, DAMAGED, COVERED, OR OTHERWISE OBLITERATED, THE CONTRACTOR SHALL RESET SAID MONUMENT AS REQUIRED AND MANDATED IN DPW DOCUMENT "MONUMENT PRESERVATION." A COPY OF THIS DOCUMENT MAY BE OBTAINED FROM THE OFFICE OF THE COUNTY SURVEYOR, 1155 MARKET STREET, 3RD FLOOR, SAN FRANCISCO, CA 94103, TELEPHONE: 415-554-5810.
- G19. CURB HEIGHT WITHIN CROSSWALK AREA SHOULD BE IN ACCORDANCE WITH DPW STANDARD PLANS (6-INCH HIGH TYPICAL). WHERE NECESSARY, TO PROVIDE CURB RAMPS, CURB HEIGHT MAY BE 4 TO 7-INCHES WITHIN CROSSWALK AREA.



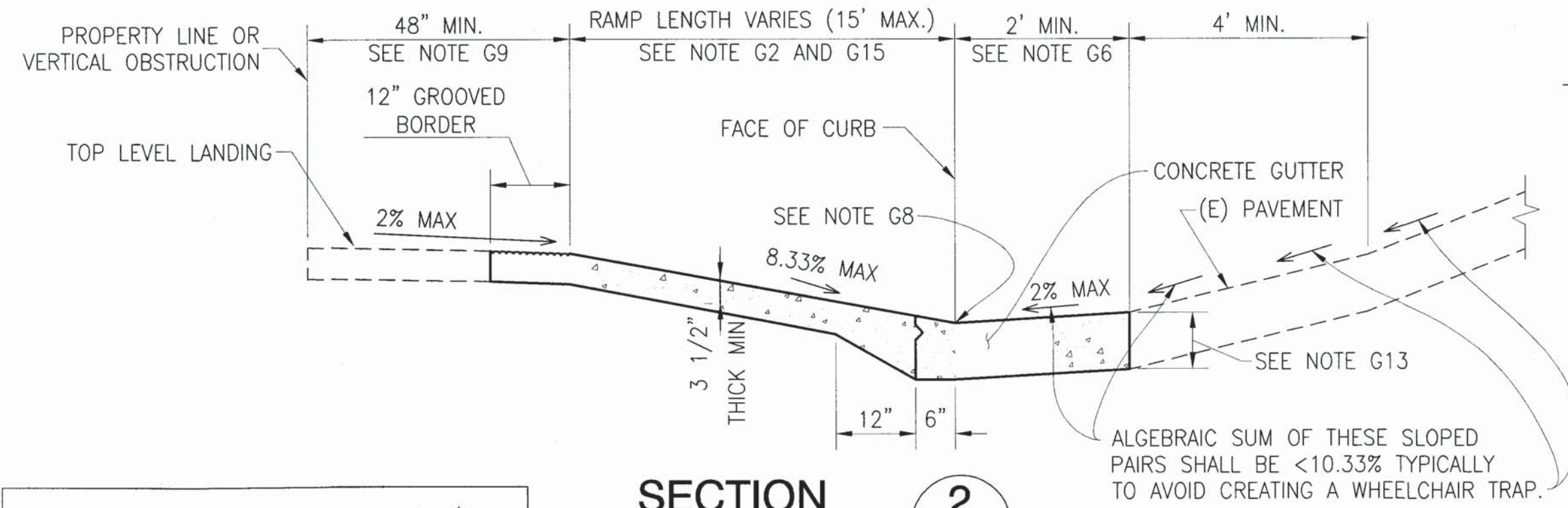
PARTIAL ISOMETRIC B
TYPICAL NORMAL LAYOUT



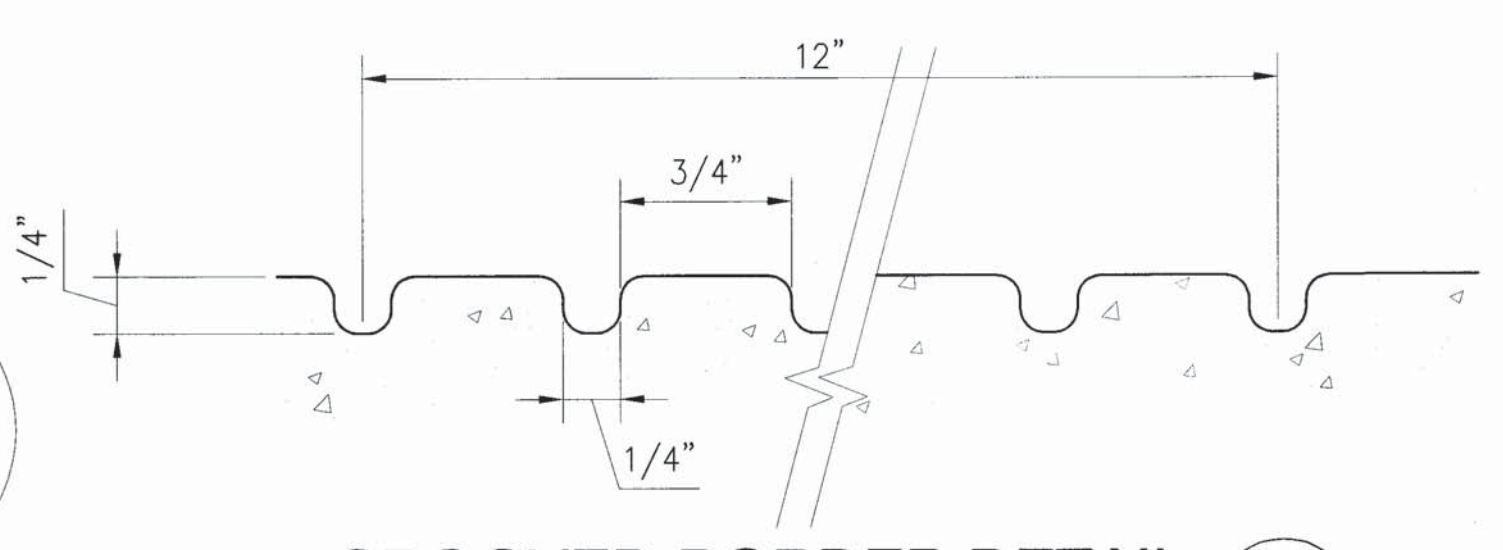
FRONT ELEVATION 1



STANDARD CURB RAMP PLAN C
TYPICAL DIAGONAL LAYOUT



SECTION 2



GROOVED BORDER DETAIL 3

APPROVED: *Kev W. Jensen* 6/18/2013
DPW DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: 6/24/13

NO.	DATE	DESCRIPTION	BY	APP.
4	06/13	SUPERCEDES PLAN # 55,017 REV. # 3	EK	
3	12/02	SUPERCEDES PLAN # 55,017 REV. # 2	PR	
2	12/94	SUPERCEDES PLAN # 55,017 CH. 1	RJF	
1	06/91	SUPERCEDES PLAN # LL48,809	RJF	

TABLE OF REVISIONS

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED:	DATE:	APPROVED:
DPW	06/13	<i>Kevin W. Jensen</i> 6/18/13
DRAWN:	DATE:	SECTION MANAGER DATE:
DPW	06/13	<i>Margaret (Pete) De...</i> 6/18/13
CHECKED:	DATE:	DEPUTY DIVISION MANAGER DATE:
DPW	06/13	<i>[Signature]</i> 6/24/13
		DIVISION MANAGER DATE:

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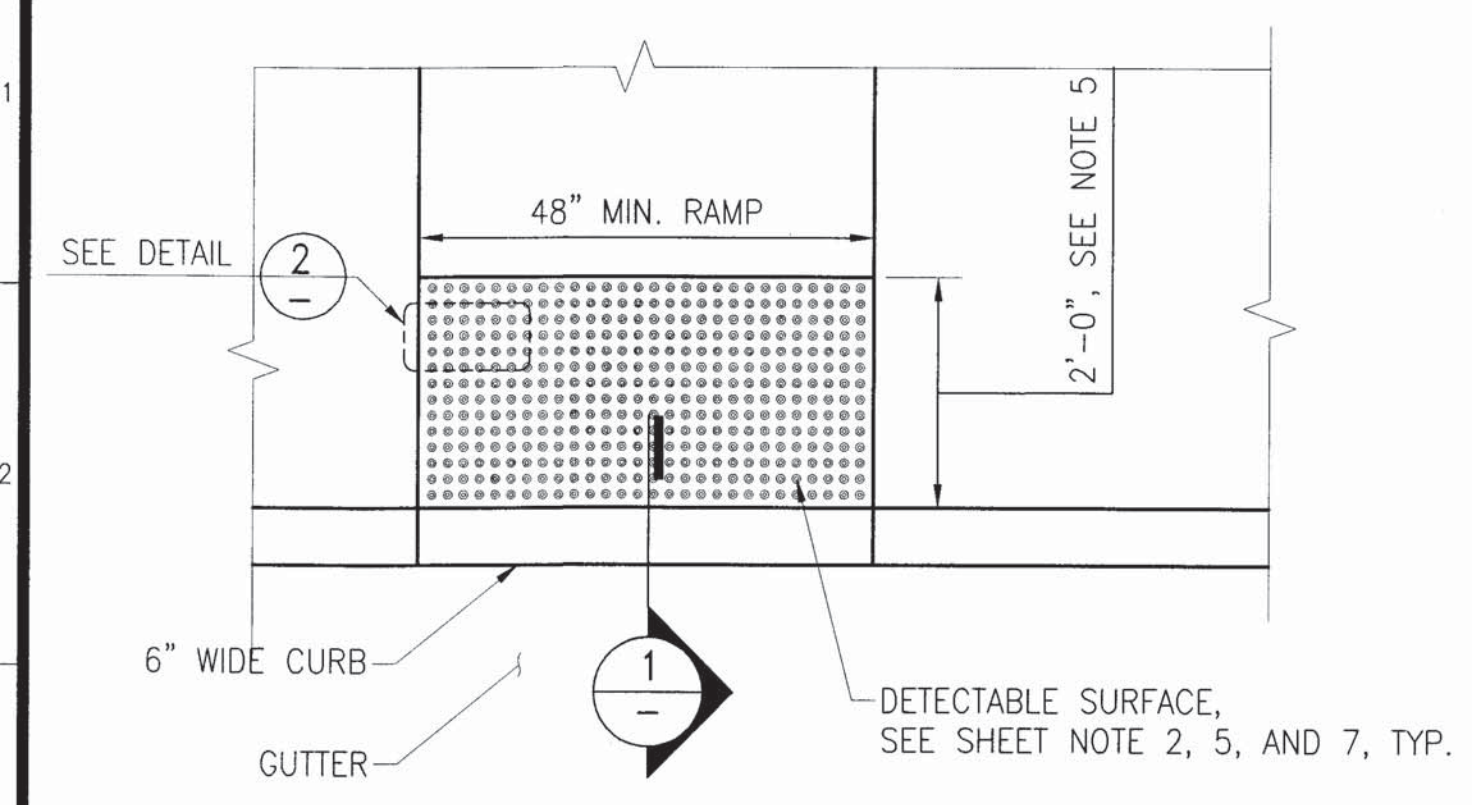
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DRAWING NO.
CR-1
FILE NO.
55,017
REV. NO.
4

STANDARD CURB RAMPS
STANDARD CURB RAMP PLANS
AND GENERAL NOTES

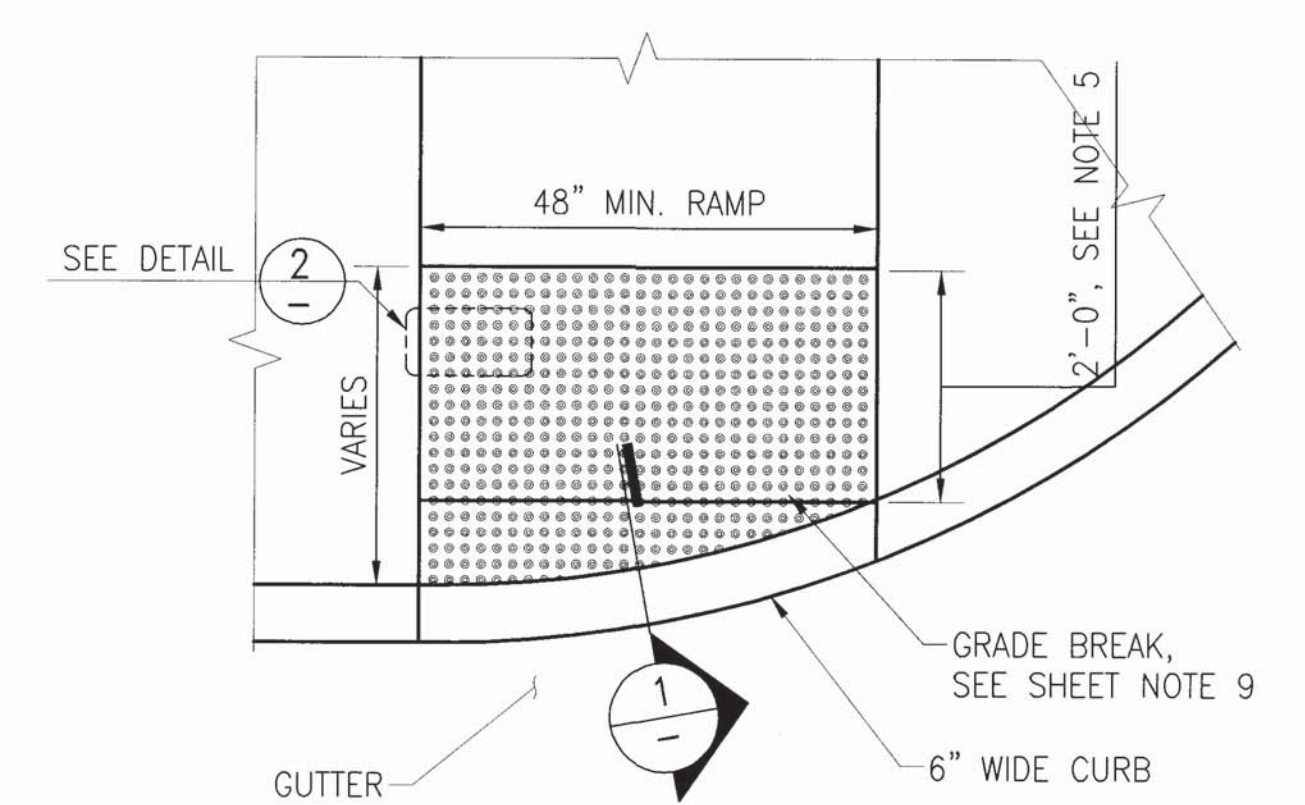
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SHEET NOTES

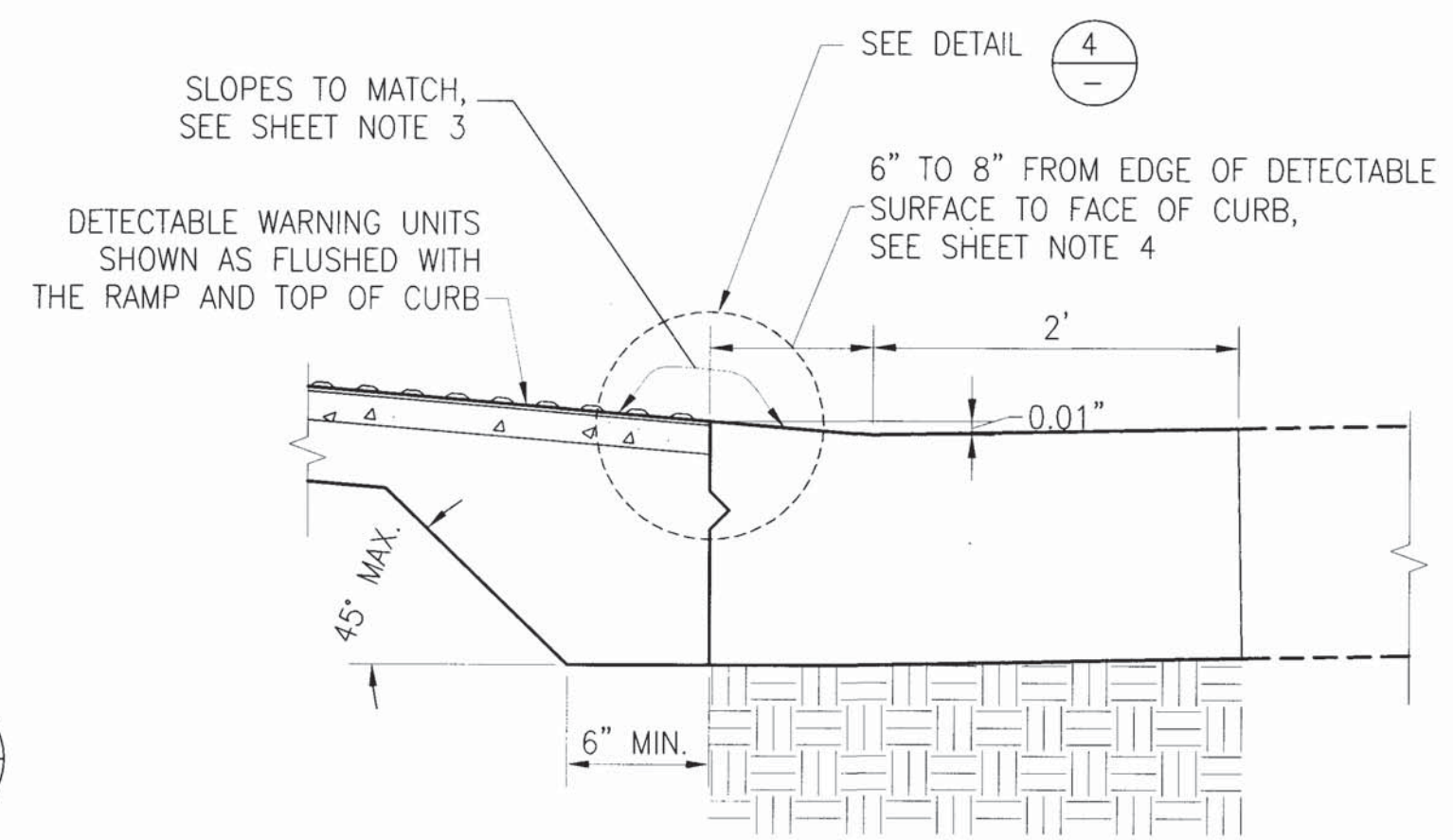
- SEE DRAWING FILE NO. 55,017, STANDARD CURB RAMPS, REV. 4, FOR ALL GENERAL NOTES AND DETAILS THAT APPLY TO THIS DRAWING.
- THE DETECTABLE SURFACE DOMES SHALL BE ORIENTED SUCH THAT THE ROWS ARE PARALLEL WITH THE DIRECTION OF THE RAMP. WHEN MULTIPLE TILES REGARDLESS OF SIZE ARE USED, THEN THE DETECTABLE SURFACE DOMES SHALL BE ALIGNED BETWEEN THE TILES AND THROUGHOUT THE ENTIRE DETECTABLE SURFACE INSTALLATION.
- THE SLOPE OF THE CURB PORTION OF THE RAMP SHALL MATCH THE SLOPE OF THE ADJACENT RAMP SURFACE.
- WHEN THE CURB IS WIDER THAN 8 INCHES, THE CURB WITHIN THE CURB RAMP SHALL BE 6" MINIMUM, 8 INCHES MAXIMUM. THE WIDE CURB OUTSIDE SHALL TRANSITION THROUGH THE GROOVED BORDER AS SHOWN ON THE DRAWING.
- WHEN THE MAXIMUM SLOPE OF THE RAMP IS LESS THAN OR EQUAL TO 6.67% (1:15), A DETECTABLE SURFACE THAT IS THREE FEET DEEP SHALL BE INSTALLED THAT IS 3'-0" LONG, MEASURED ON THE SHORTEST SIDE.
- WHEN A DETECTABLE SURFACE DOME IS CUT, THE REMAINING DOME SHALL BE BEVELED TO A MAXIMUM SLOPE OF 1:2. COLOR MATCH CUT OR GROUND SURFACES WITH COATING IN ACCORDANCE WITH DETECTABLE WARNING MANUFACTURER.
- DETECTABLE SURFACE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON NEW AND RETROFITTED CURB RAMPS. THE COLOR OF THE DETECTABLE SURFACE SHALL CONFORM TO FEDERAL STANDARD 595B TABLE IV, COLOR#33538. CURB RAMP CONSTRUCTION SHALL BE PROVIDED WITH DPW APPROVED UNITS THAT ARE CAST-IN-PLACE PER MANUFACTURER'S INSTRUCTIONS.
- THE EDGE OF THE DETECTABLE SURFACE SHALL HAVE A BEVELED EDGE SLOPED AT 1:2 MAXIMUM. WHEN THE DETECTABLE SURFACE EDGE IS CUT AND THE RESULTING EDGE IS NOT FLUSH WITH THE SURFACE OF THE CURB RAMP, THE EDGE SHALL BE BEVELED OR CONFORMED WITH AN APPROVED FILLER AT 1:2 MAXIMUM SLOPE, IN ACCORDANCE WITH THE APPROVED DETECTABLE SURFACE MANUFACTURER'S REQUIREMENTS.
- GRADE BREAK ACROSS THE DETECTABLE SURFACE SHALL BE PROVIDED WHEN NECESSARY TO MEET GUTTER ELEVATIONS AND TO LIMIT CROSS-SLOPE ON THE RAMP TO $\leq 2\%$.
- REFERENCE DPW STANDARD SPECIFICATIONS FOR THE INSTALLATION OF CONCRETE OR PLASTIC DETECTABLE SURFACE TILES AND FOR THE CONSTRUCTION OF CONCRETE SIDEWALK, CURB, AND GUTTER.



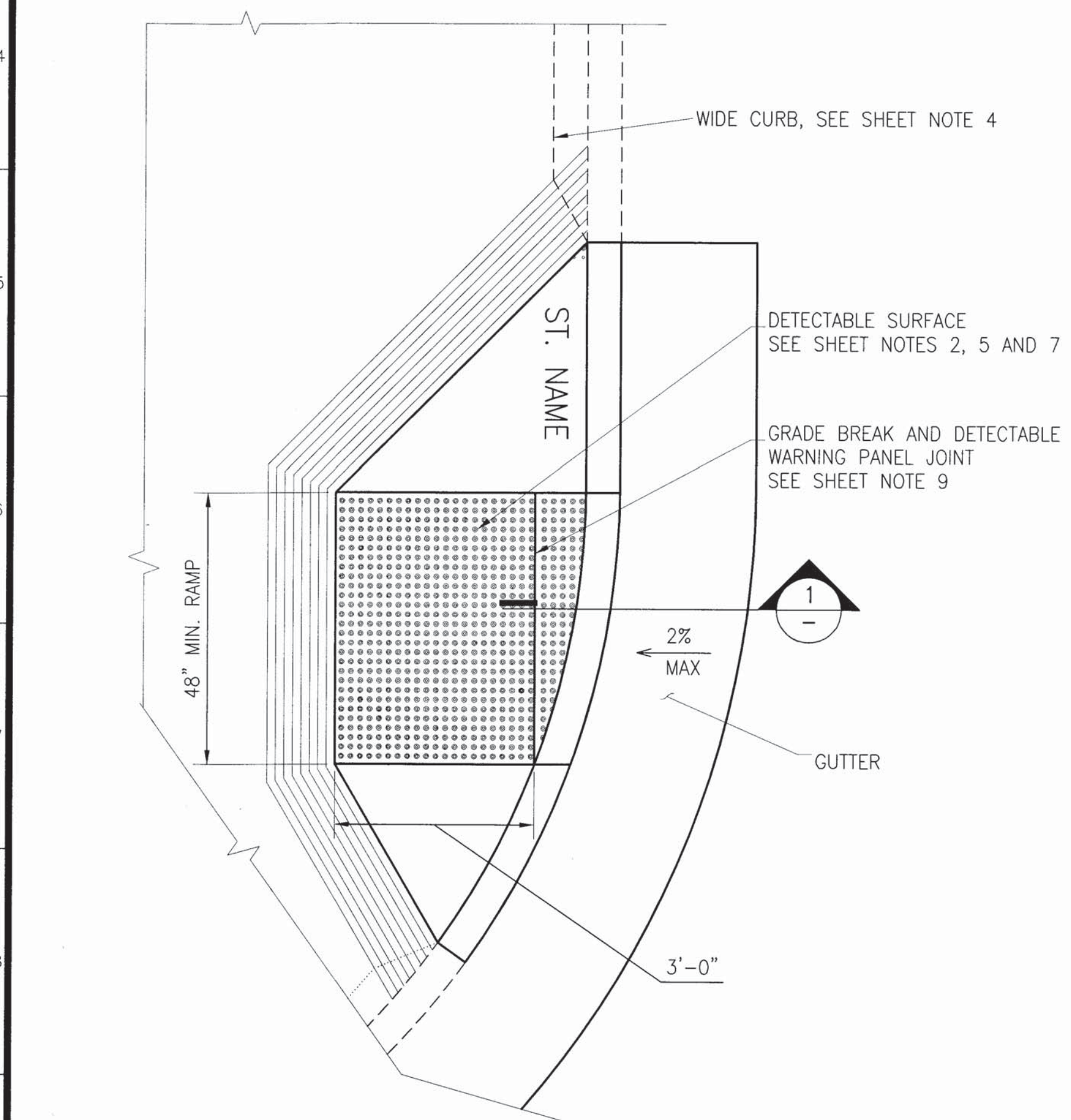
DETECTABLE SURFACE LAYOUT
RAMP ON STRAIGHT EDGE (A)



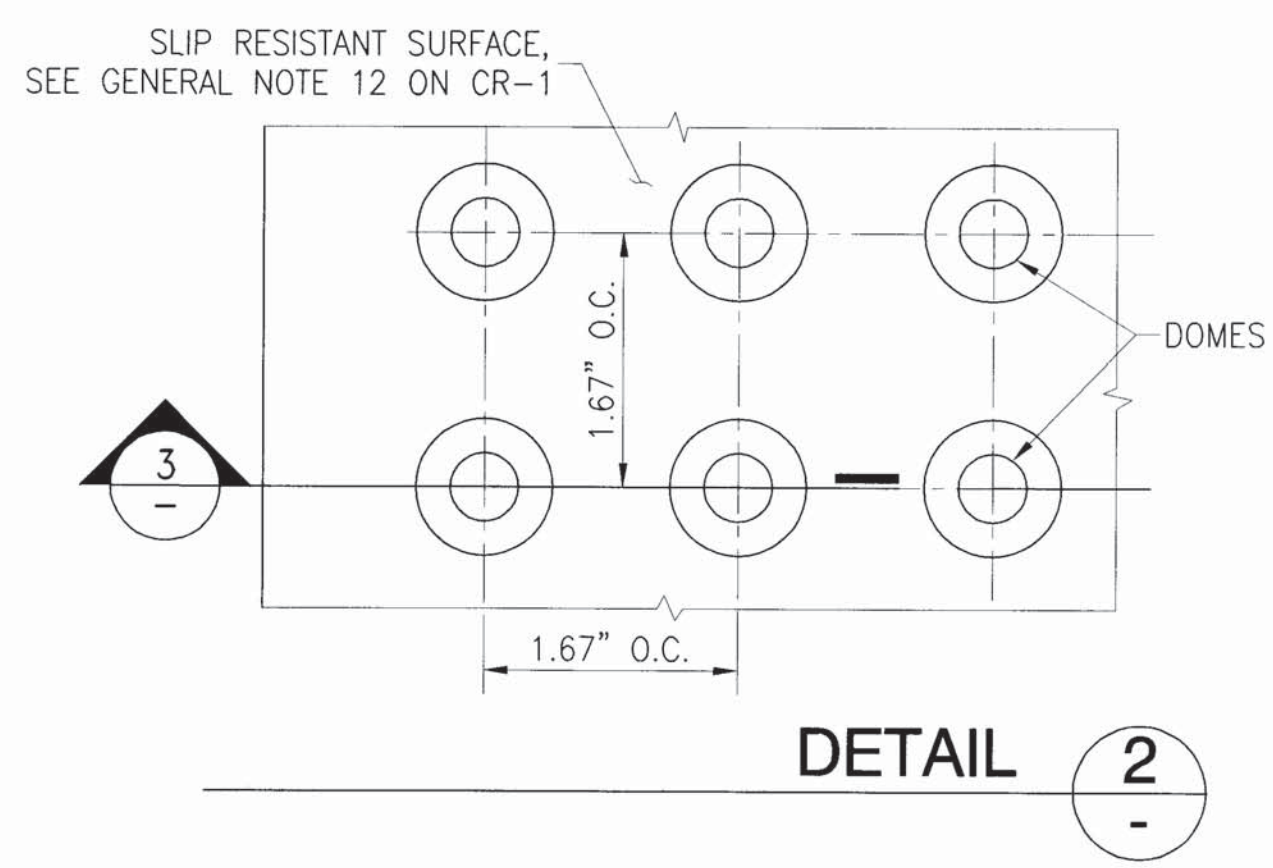
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RAMP ON CURVED EDGE (B)



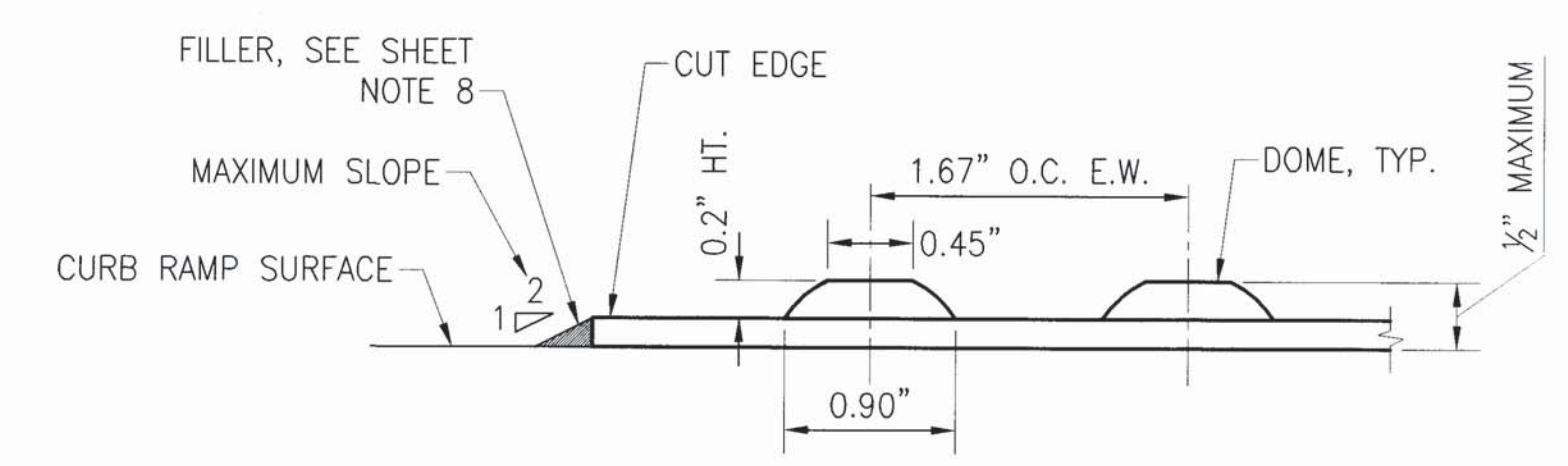
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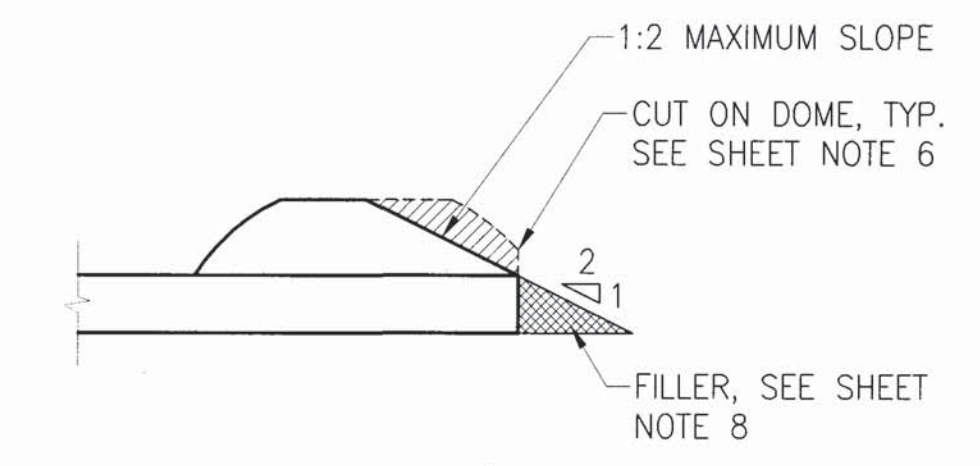
DETECTABLE SURFACE LAYOUT
RAMP SLOPE $\leq 6.67\%$ (C)



DETAIL (2)



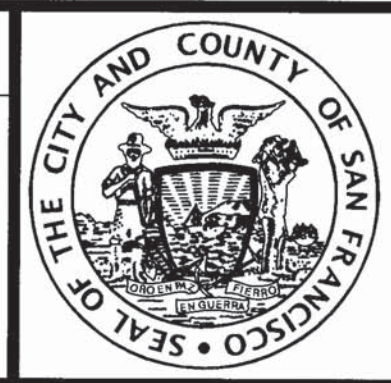
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AT SURFACE - APPLIED
DETECTABLE WARNING UNITS (3)



DETAIL (4)
AT CUT DOME

NO.	DATE	DESCRIPTION	BY	APP.
1	06/13	SUPERCEDES PLAN # 83,237	EK	
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED:	DATE:	APPROVED	DATE:
DPW	06/13	<i>John L. Davis</i>	6/18/13
DRAWN:	DATE:	SECTION MANAGER	DATE:
DPW	06/13	<i>Margaret P. Davis</i>	6/18/13
CHECKED:	DATE:	DEPUTY DIVISION MANAGER	DATE:
DPW	06/13	<i>Paul D. ...</i>	6/21/13
		DIVISION MANAGER	DATE:

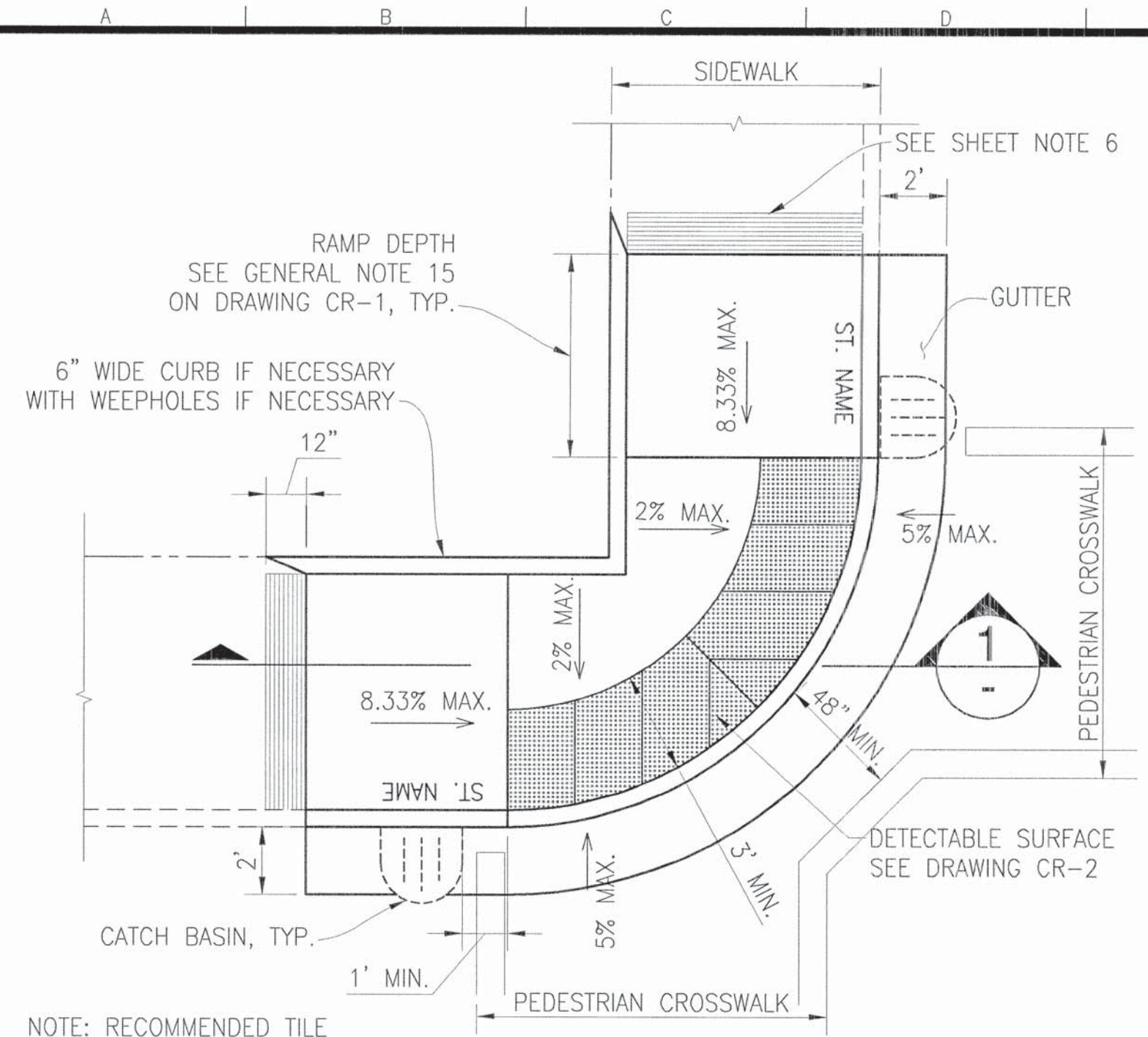
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STANDARD CURB RAMPS
DETECTABLE SURFACE LAYOUT
DETAILS AND NOTES

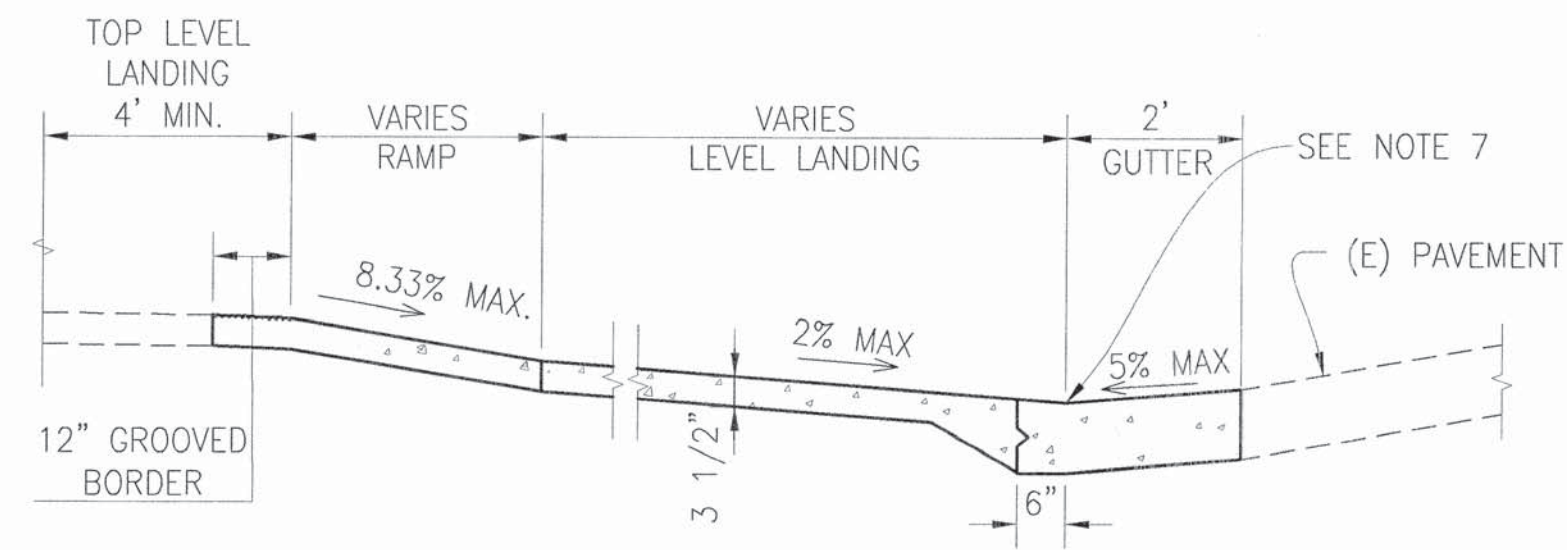
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FILE NO.	55,017.1
REV. NO.	1

APPROVED: *Karl W. Jansen* 6/18/2013
DPW DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: 6/24/13

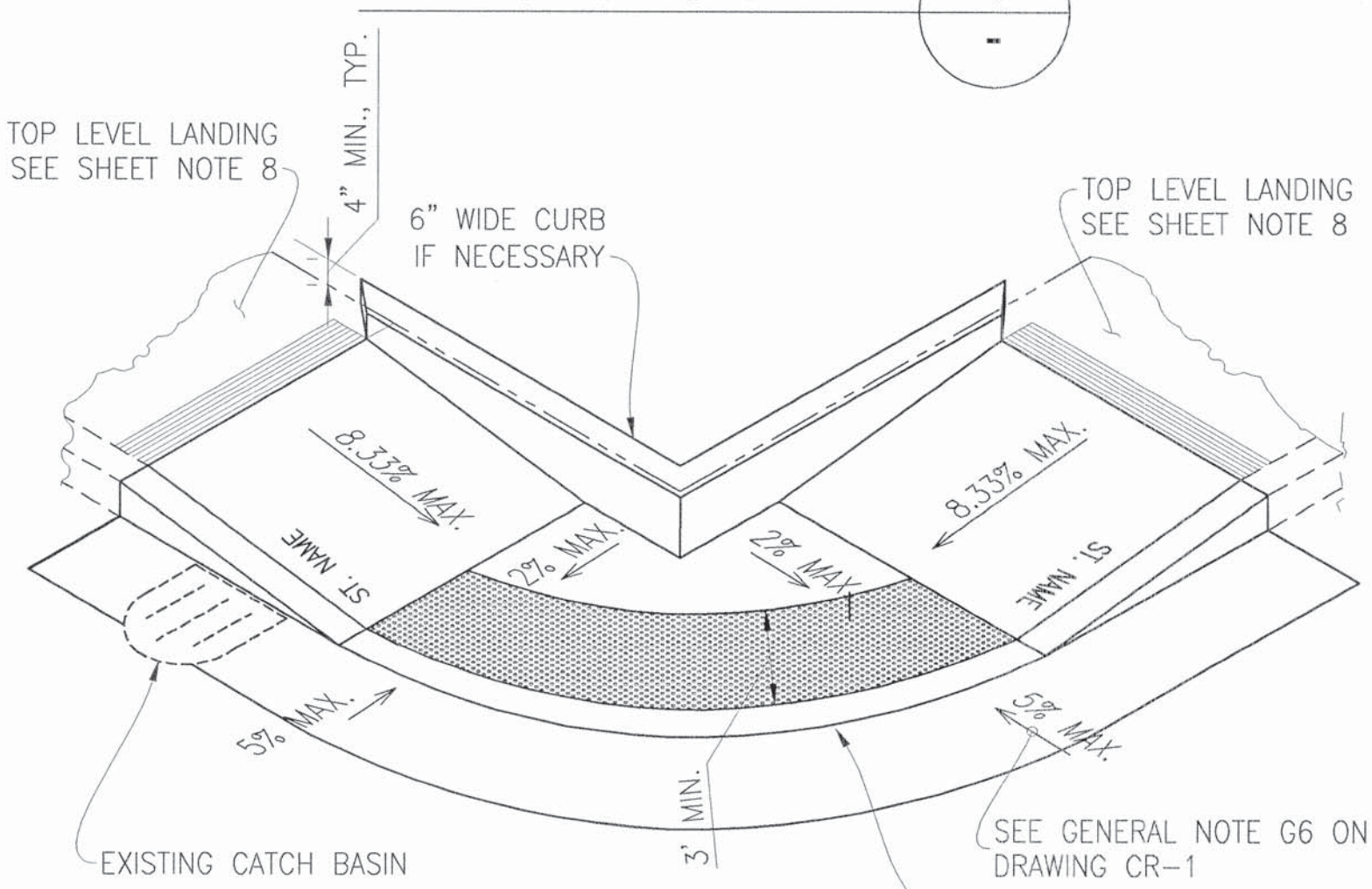
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Measurement Units: English



ALTERNATE CURB RAMP A
 BLENDED TRANSITION
 CATCH BASIN OUTSIDE OF CURB RETURN

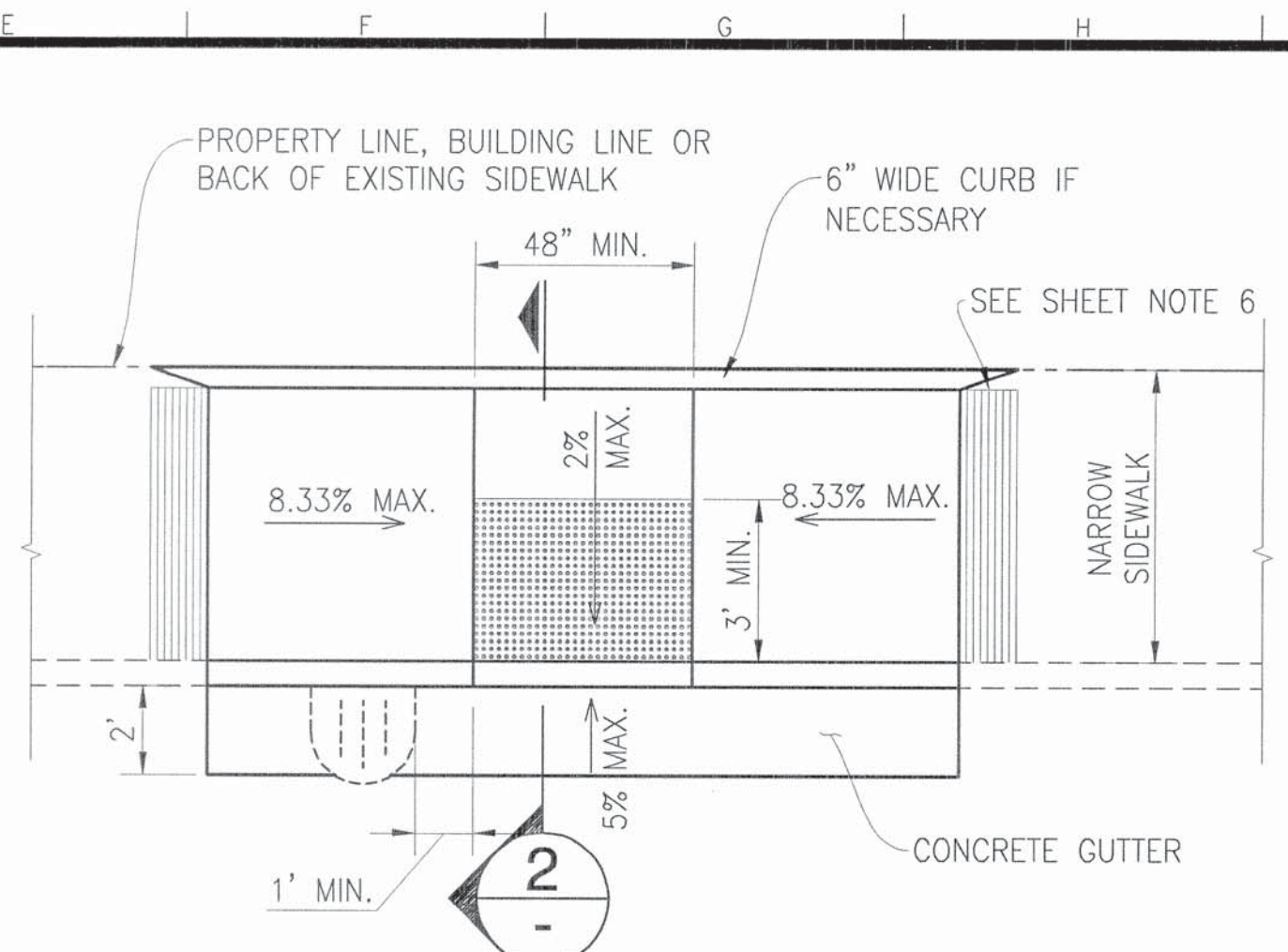


SECTION 1

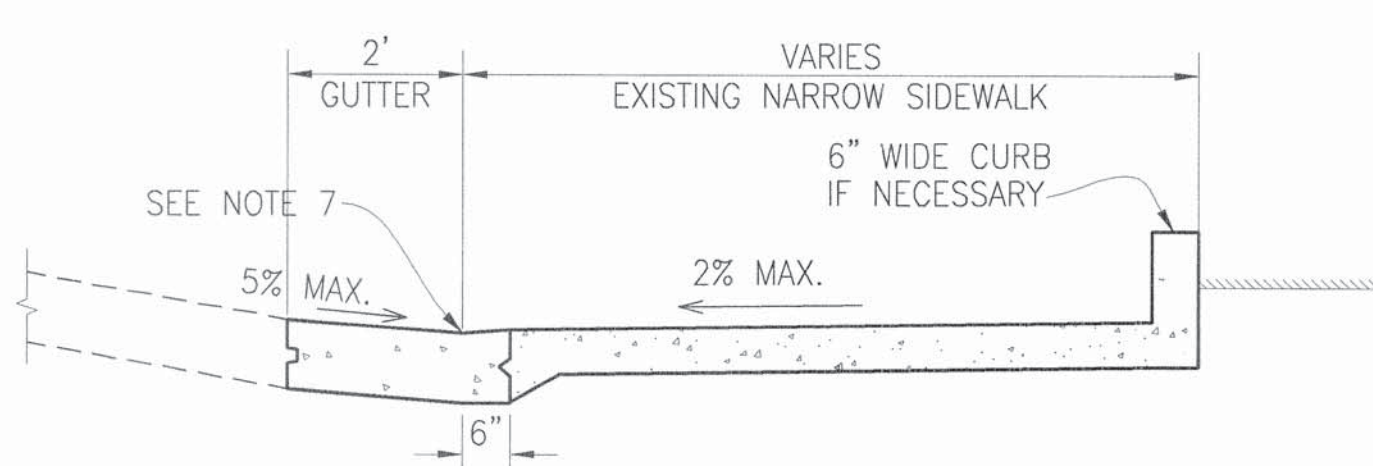


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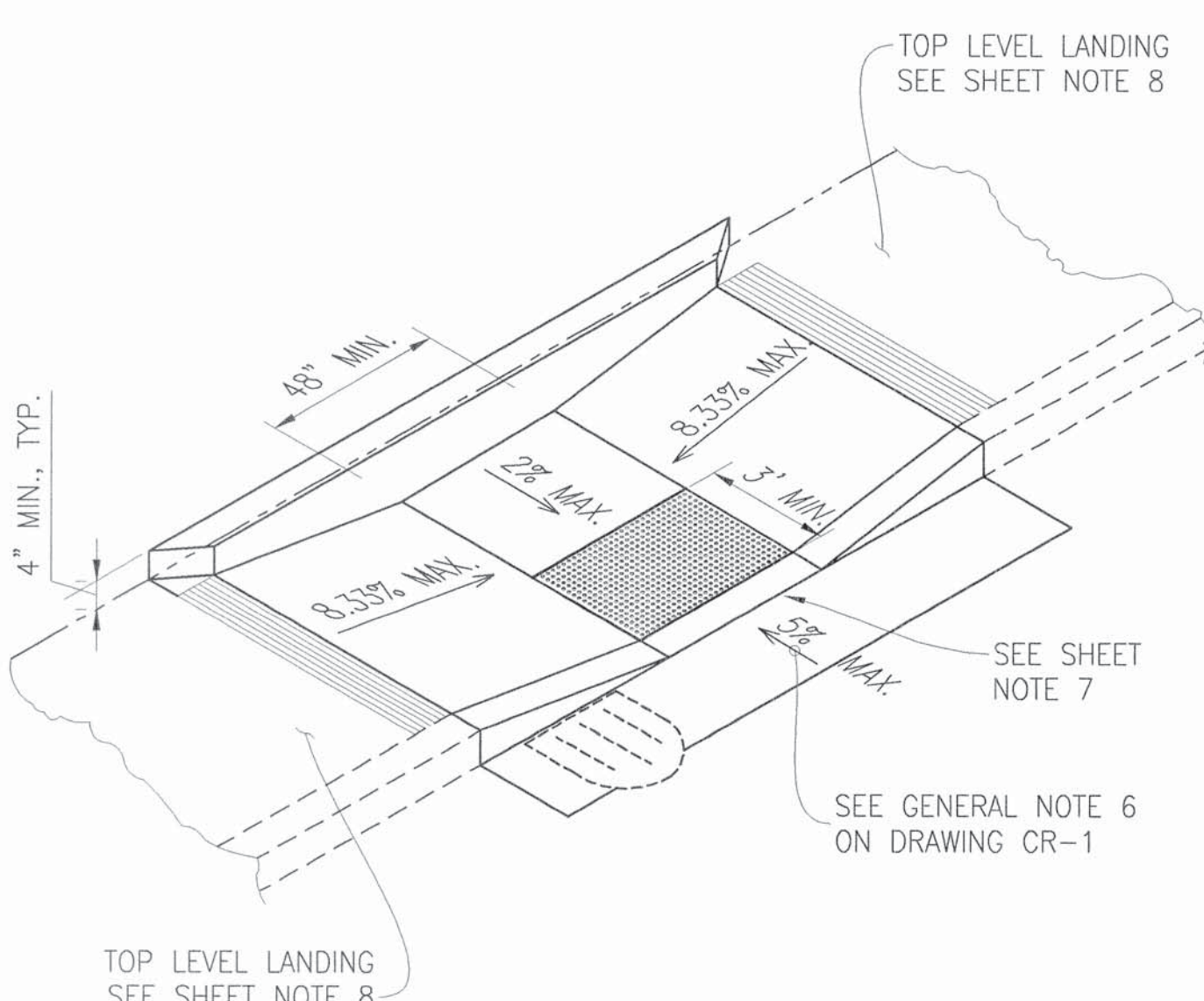
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ALTERNATE CURB RAMP B
 PARALLEL RAMP

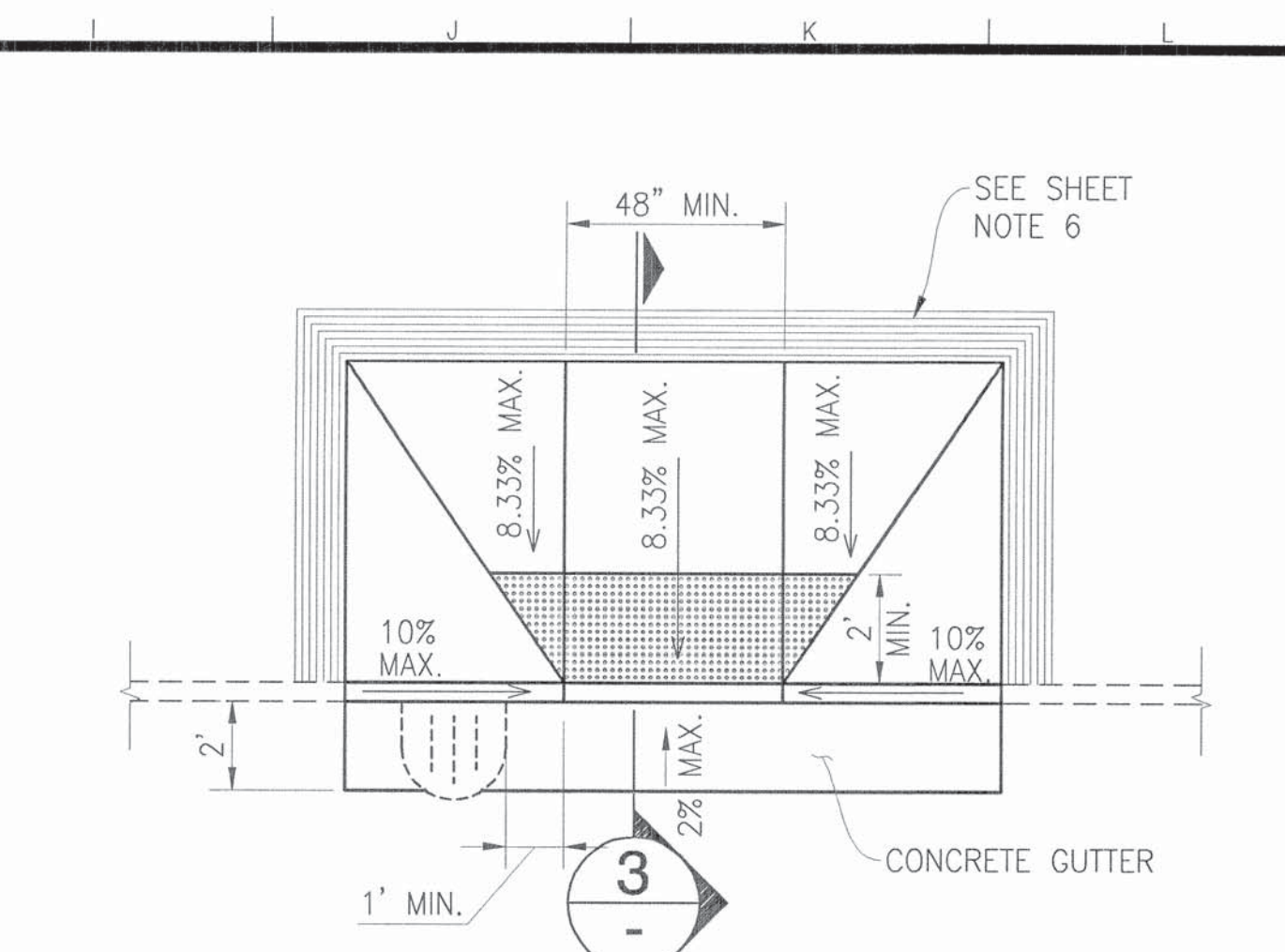


SECTION 2

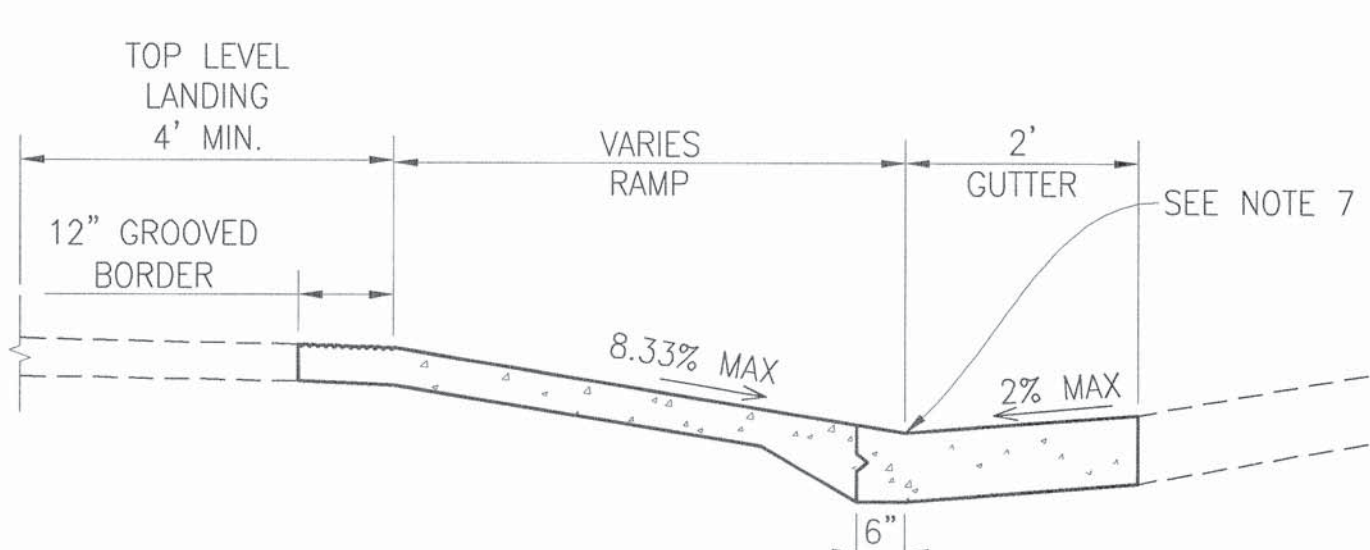


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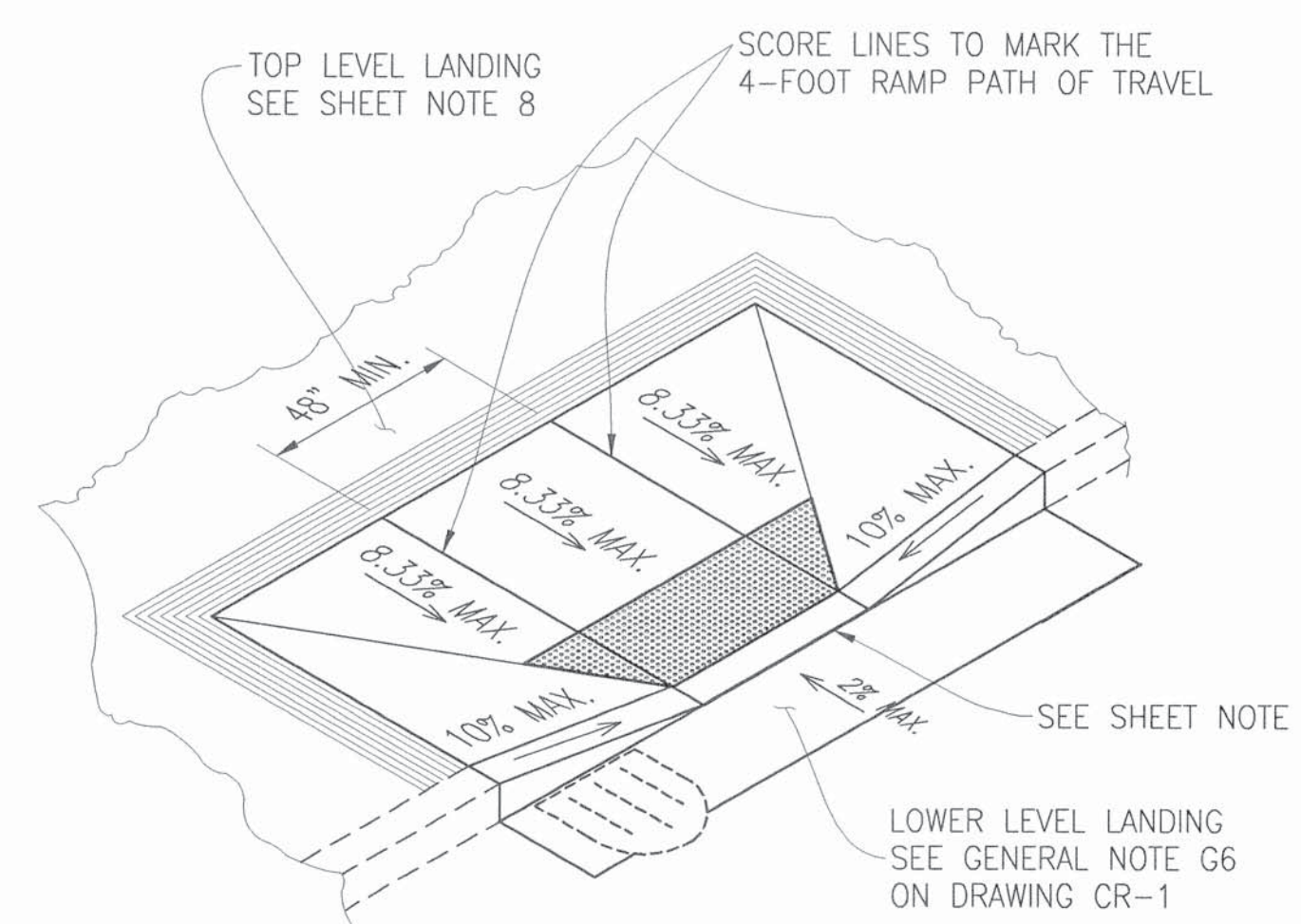
SEE SHEET NOTE 7
 SEE GENERAL NOTE 6 ON DRAWING CR-1



ALTERNATE CURB RAMP C
 RECTANGULAR RAMP



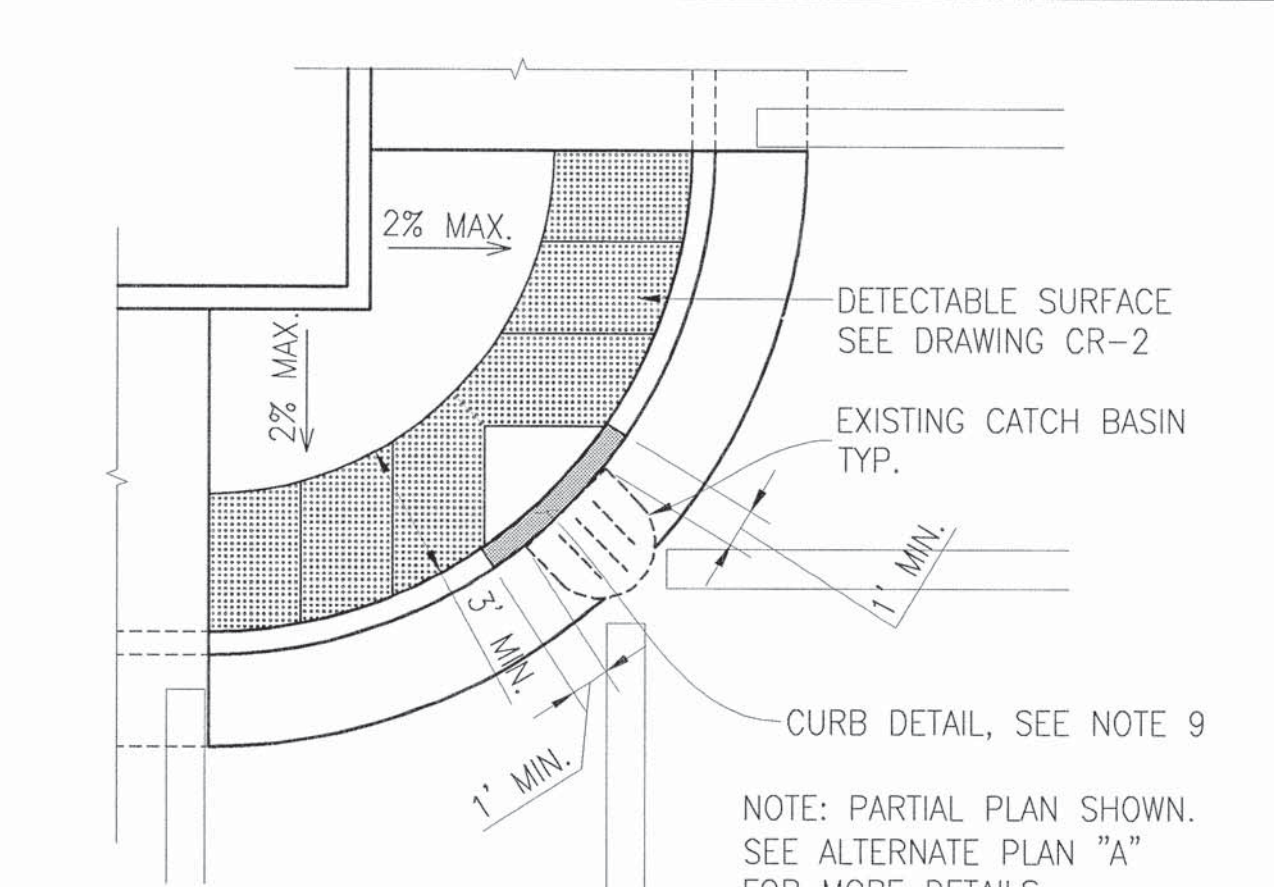
SECTION 3



ISOMETRIC

APPROVED: *Kathleen...* 1/12/04
 DPW DISABILITY ACCESS COORDINATOR DATE:
 EFFECTIVE DATE:

- ### SHEET NOTES
1. THE ALTERNATE CURB RAMPS SHOWN ON THIS DRAWING SHALL BE USED ONLY WITH PRIOR APPROVAL FROM THE CITY ENGINEER, DPW DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE AND UPON PROPER DOCUMENTATION OF HARDSHIP INDICATING LEGAL AND OR PHYSICAL CONSTRAINTS.
 2. ALL GENERAL NOTES ON DRAWING CR-1, FILE NUMBER 55,017, STANDARD CURB RAMPS, REV. 3, SHALL APPLY TO THIS SHEET. FOR DETECTABLE SURFACE DETAILS AND NOTES, SEE DRAWING CR-2, FILE NUMBER 55,017.1.
 3. ALTERNATE "A" CURB RAMP SHALL BE USED WHEN THE SIDEWALK IS NOT WIDE ENOUGH AND THE STANDARD CURB RAMP LAYOUT AND EXCEPTIONS ARE NOT TECHNICALLY FEASIBLE.
 4. ALTERNATE "B" CURB RAMP SHALL BE USED ON SIDEWALKS AT MID-BLOCK LOCATIONS WHERE THE STANDARD CURB RAMP LAYOUT IS NOT FEASIBLE. A 6-INCH CURB SHALL BE INSTALLED ALONG THE EDGE OF THE BACK OF SIDEWALK, ONLY WHEN NECESSARY.
 5. ALTERNATE "C" CURB RAMP SHALL BE USED AS A VARIATION OF A STANDARD CURB RAMP FOR MID-BLOCK LOCATIONS WHERE THERE IS ENOUGH ROOM FOR TOP LEVEL LANDING. SCORE LINES ORIENTED PARALLEL TO THE PATH OF TRAVEL SHALL BE USED TO MARK THE 4-FOOT WIDE RAMP.
 6. GROOVED BORDERS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH THE DETAILS SHOWN FOR STANDARD CURB RAMPS ON DRAWING CR-1.
 7. THE BOTTOM OF THE RAMP SHALL BE FLUSH WITH THE LOWER LANDING (NO HALF-INCH LIP).
 8. PROVIDE A LEVEL LANDING AT THE TOP OF THE RAMP WHICH SHALL BE AS WIDE AS THE RAMP AND 48" DEEP MINIMUM, WITH SLOPES AT 2% MAXIMUM, BOTH DIRECTIONS.
 9. A CATCH BASIN AT THE CENTER OF A BLENDED TRANSITION CURB RAMP SHALL BE AVOIDED AS MUCH AS FEASIBLE. OTHER OPTIONS SHALL BE CONSIDERED FIRST, SUCH AS, RELOCATING THE CATCH BASIN OUTSIDE OF THE CURB RETURN, OR USE OF EXCEPTION CURB RAMPS. WHEN ALL OTHER OPTIONS ARE NOT FEASIBLE, THE CATCH BASIN WITHIN THE BLENDED TRANSITION SHALL REMAIN, AND THE CURB WITHIN THE CATCH BASIN, PLUS ONE FOOT ON EITHER SIDE, SHALL BE PAINTED RED, OR TREATED IN A MANNER APPROVED OR RECOMMENDED BY THE CITY ENGINEER, DPW DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE. THE CURB HEIGHT AT THE CATCH BASIN SHALL BE 4 INCHES MINIMUM.



ALTERNATE CURB RAMP A1
 BLENDED TRANSITION
 CATCH BASIN AT CURB RETURN

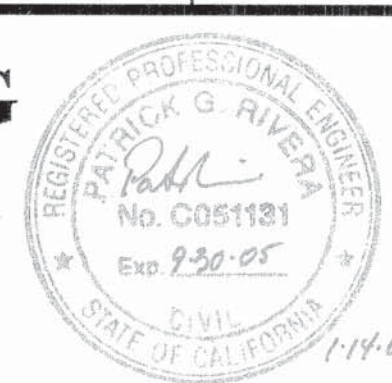
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2	12/94	SUPERCEDES PLAN # 55,018 CH. 1	RJF	
1	06/91	SUPERCEDES PLAN # LL48,809	RJF	

TABLE OF REVISIONS
 CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION
 & FILE NO. OF SURVEYS



BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



DESIGNED:	DATE:	APPROVED:
DPW	11/02	<i>Pat...</i> 1/12/04
DRAWN:	DATE:	SECTION MANAGER DATE:
DPW	11/02	<i>William...</i> 1/12/04
CHECKED:	DATE:	DEPUTY BUREAU MANAGER DATE:
DPW	11/02	<i>Nelson...</i> 1/16/04

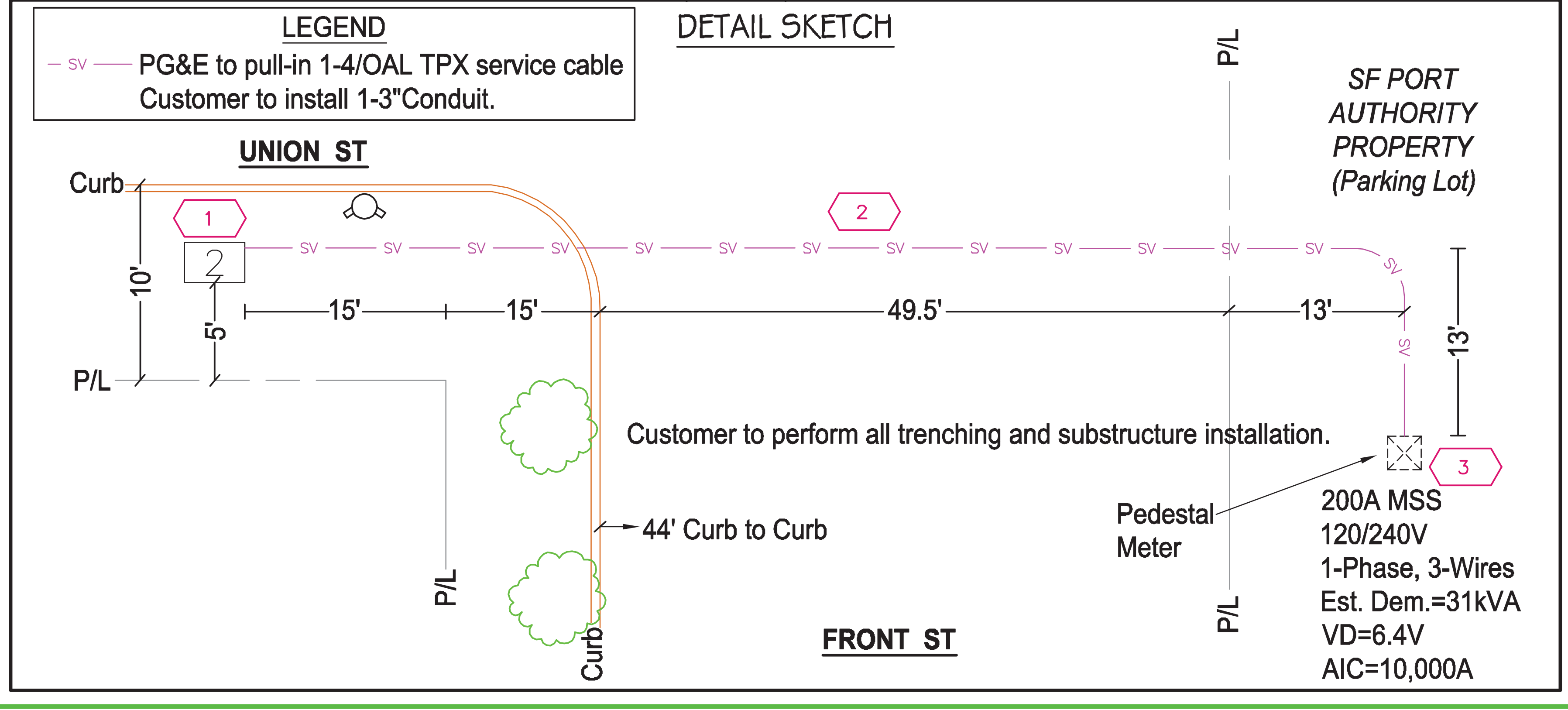
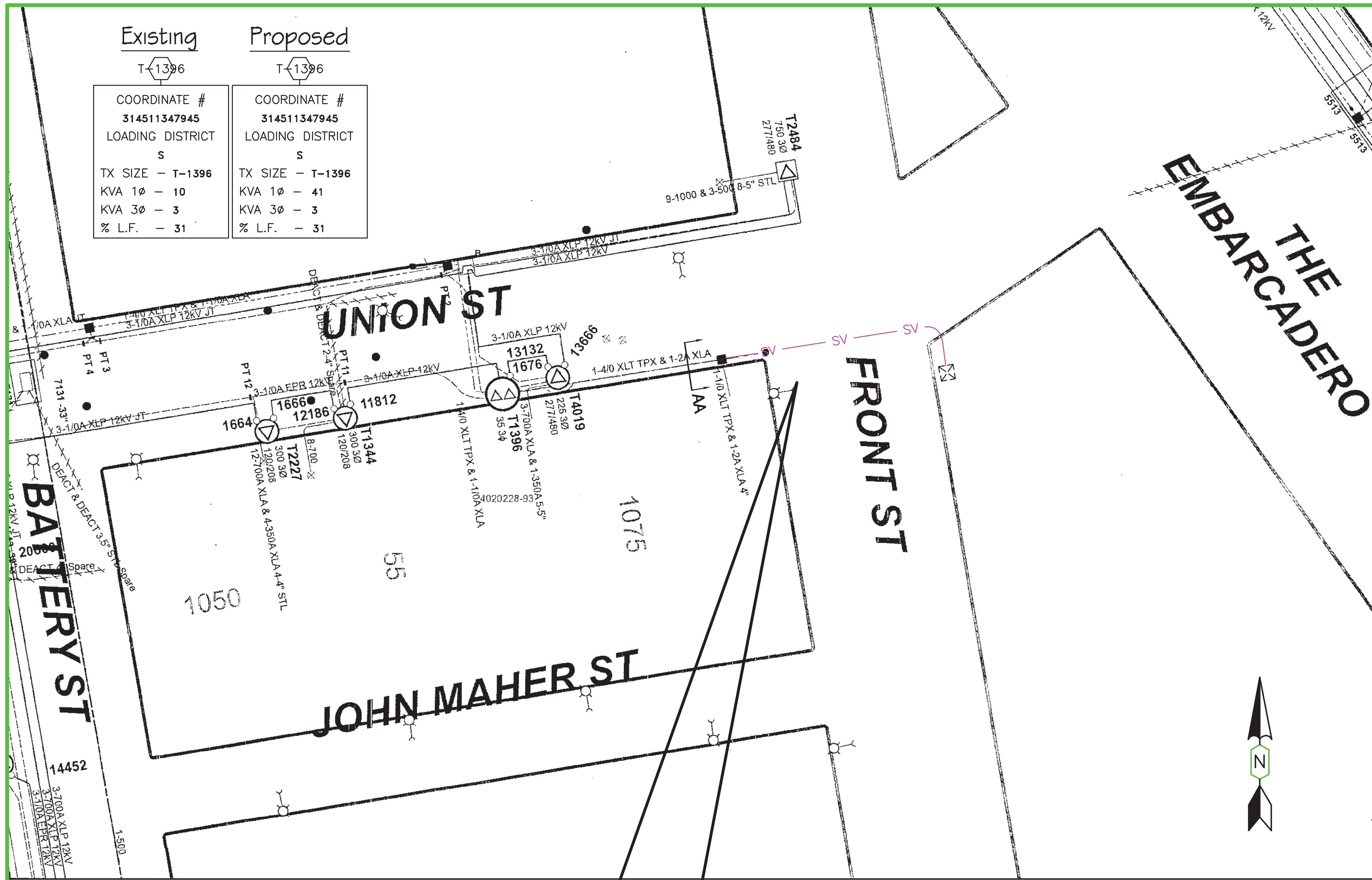
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 OF

CURB RAMP PLANS

ALTERNATE CURB RAMPS

SPECIFICATION NO.
CR-3
DRAWING NO.
55,018
FILE NO.
55,018
REV. NO.
3



EST: Simon Lee	415-695-7541	CONSTRUCTION SKETCH FRONT ST. & UNION ST. SAN FRANCISCO	NO ENVIRONMENTAL ISSUES GAS CONFLICT: NEAR LOC.
ADE: Simon Lee	415-695-7541		
SUPV: David Lee	415-695-3489		
REP: Sean Sanders	415-695-3497		
PLNR: N/A	N/A	811 Know what's below. Call before you dig.	JPAF: 110384609 SCALE: NTS DATE: 04/14/16
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