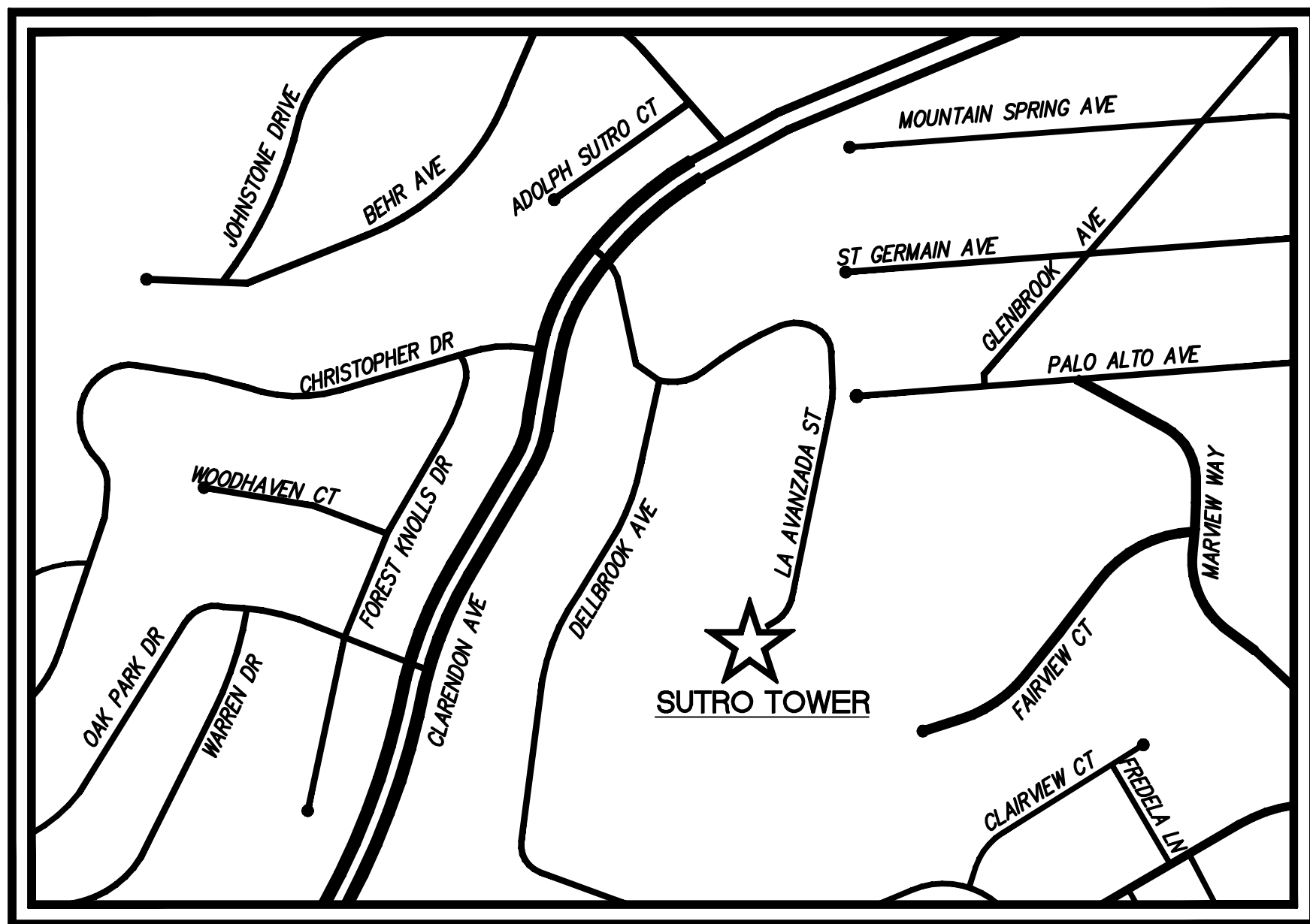


# SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER

SAN FRANCISCO

CALIFORNIA



SITE MAP  
NTS



VICINITY MAP  
NOT TO SCALE

## CONSTRUCTION NOTES

- ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE PROJECT DRAWINGS AND SPECIFICATIONS, THE LATEST EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND CITY OF SAN FRANCISCO STANDARDS.
- THE CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDINANCE PERTAINING TO EXCAVATIONS AND TRENCHES.
- CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST FIVE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK OR IF WORK HAS BEEN SUSPENDED FOR A PERIOD OF MORE THAN THREE DAYS.
- CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR CONSTRUCTION MANAGER, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
- UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY VERIFY THE LOCATION AND DEPTH AND VERIFY FINDINGS WITH THE APPROPRIATE AGENCIES. THE ENGINEER DOES NOT ASSUME RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
- CONTRACTOR TO RESET ALL MANHOLE RIMS AND VALVE BOXES TO GRADE AFTER PLACING THE BASE AND IMMEDIATELY PRIOR TO THE LAST LIFT OF PAVING.
- CONTRACTOR TO PROVIDE UNDERGROUND LOCATING SERVICE TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND FACILITIES PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AMPLE COVER FOR THE PROTECTION OF ALL INSTALLED UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED.
- ANY EXISTING UTILITY TO BE EXTENDED OR INTO WHICH PROPOSED UTILITIES ARE TO BE CONNECTED SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO THE STAKING OF THE EXTENSION OF SUCH UTILITIES. THE CONTRACTOR SHALL THEN MEASURE THE EXISTING LOCATION AND ELEVATION FOR POSSIBLE CONFLICTS OR OTHER INCONSISTENCIES WITH PLANS. IF THESE MEASUREMENTS REVEAL CONFLICTS OR OTHER INCONSISTENCIES WITH THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST DESIGN OR OTHER MODIFICATIONS TO RESOLVE THE CONFLICT OR INCONSISTENCIES.
- THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES INCLUDING DRAIN LINES AT CROSSINGS OF EXISTING AND PROPOSED UTILITIES AND PRIOR TO THE STAKING OF THE PROPOSED UTILITIES PRIOR TO ANY EXCAVATION FOR PROPOSED UTILITY INSTALLATION. CONTRACTOR SHALL MEASURE THE ELEVATION OF THE EXISTING UTILITIES AND CHECK FOR CONFLICTS WITH THE PROPOSED UTILITIES. IF A GRADE CONFLICT DOES OCCUR, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE ENGINEER SHALL MAKE ANY GRADE ADJUSTMENT NECESSARY TO RESOLVE THE GRADE CONFLICT. NO ADJUSTMENT IN BID PRICES WILL BE ALLOWED AS A RESULT OF SUCH GRADE ADJUSTMENT.
- CONTRACTOR SHALL EXPOSE END OF EXISTING SEWER AND DRAIN PIPES OR STRUCTURES AND VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF PIPE. IF A GRADE CONFLICT DOES OCCUR, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE ENGINEER SHALL MAKE ANY GRADE ADJUSTMENT NECESSARY TO RESOLVE THE GRADE CONFLICT. NO ADJUSTMENT IN BID PRICES WILL BE ALLOWED AS A RESULT OF SUCH GRADE ADJUSTMENTS. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN PRICE PAID FOR VARIOUS ITEMS OF WORK.
- ANY EXISTING UTILITY STRUCTURE INCLUDING BUT NOT LIMITED TO VALVE BOXES, SEWER AND STORM MANHOLES AND INLETS, ELECTRICAL, WATER, GAS AND TELEPHONE BOXES AND VALVES OCCURRING IN THE LOCATION OF PROPOSED IMPROVEMENTS SHALL BE RESET TO THE PROPER GRADE. PAYMENT FOR SUCH RESETTINGS SHALL BE INCLUDED IN OTHER ITEMS OF WORK AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THEREFORE.
- ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATE (DUST).
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

## CONSTRUCTION NOTES (CONTINUED)

- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY AT ALL WORK LOCATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OR UNDERGROUND FACILITIES DAMAGED BY HIM, HIS SUBCONTRACTORS OR HIS MATERIAL SUPPLIERS.
- ALL CONCRETE SHALL COMPLY TO SECTION 90 OF THE CALTRANS STANDARD SPECIFICATIONS.
- REVISED PLANS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE ANY DEVIATIONS FROM THE APPROVED PLANS ARE MADE IN THE FIELD.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES PRIOR TO CONSTRUCTION.
- ALL UNDERGROUND UTILITIES SHALL BE COMPLETE BEFORE PLACING OF BASE ROCK UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- GRADE BREAKS TO BE ROUNDED OFF IN CONCRETE FORM WORK AND FINISH SURFACING.
- EXPORT SPILL MATERIALS, IF ANY, RESULTING FROM THE GRADING OF THIS PROJECT SHALL BE DISPOSED OF PROPERLY AT LOCATION DETERMINED BY THE CONTRACTOR AND APPROVED BY THE CITY.
- A.C. SURFACE SHALL BE CUT TO A NEAT STRAIGHT LINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED AND RESEALED PRIOR TO PAVING. MONUMENTS AND ANY MONUMENTS OBLITERATED OR DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL EXISTING SURVEY MONUMENTS.
- THE CONTRACTOR SHALL REVIEW THE PLANS AND MAKE HIS OWN ASSESSMENT OF EARTHWORK BALANCE, EXCESS OR SHORTAGE. HE SHALL PREPARE HIS BID SO AS TO INCLUDE ANY EXCESS WHICH MAY OCCUR AND AS TO AVAILABLE MATERIAL SOURCES IN THE EVENT OF AN EXCESS, AND AS TO AVAILABLE MATERIAL SOURCES IN THE EVENT OF A SHORTAGE. SHOULD THERE BE AN EXCESS OF MATERIAL, THE CONTRACTOR SHALL NOT DEPOSIT MATERIAL IN ANY NATURAL STREAMS, WETLANDS, VERNAL POOLS, OR WITHIN THE 100 YEAR FLOOD PLAIN. HIS BID SHALL INCLUDE ALL HAULING COSTS IF HAULING IS NECESSARY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO PROJECT EARTHWORK EXCESS OR SHORTAGE.

## UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

## EARTHWORK FOR CONSTRUCTION NOTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL MATERIAL AND LABOR REQUIRED WITHIN THE BID PRICE, FOR EARTHWORK CONSTRUCTION, TO CARRY OUT THE CUT/FILL AND/OR IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES SHOWN ON THE PLANS. SUBCONTRACTOR IS TO DELIVER TO THE OWNER OF THE PROJECT IN A COMPLETE AND OPERATIONAL MANNER. EARTHWORK QUANTITIES SHOWN ON THE PLANS OR REPRESENTED BY THE ENGINEER ARE APPROXIMATE AND ARE FOR GRADING PERMIT APPROVAL ONLY. THE SUBCONTRACTOR IS RESPONSIBLE FOR ANY INVESTIGATION OR STUDIES THAT ARE REQUIRED BY THE SUBCONTRACTOR TO SATISFY THIS REQUIREMENT. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR SAID CUT/FILL AND/OR IMPORT/EXPORT.

## DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE SUBCONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

## LEGEND

EXISTING	PROPOSED
PUBLIC EASEMENT LINE	---
BOUNDARY LINE	---
CONC. VALLEY GUTTER	---
CONC. SIDEWALK OR PAD	---
ASPHALT CONCRETE	---
SANICUT AND CONFORM	---
6" CURB & GUTTER	---
FLUSH CURB	---
6" VERTICAL CURB	---
CENTER LINE	---
STORM SEWER MAIN	8" SS
STORM DRAIN MAIN	12" SD
WATER MAIN	6" W
FIRE WATER	FW
SILT FENCE	---
CHAIN LINK FENCE	---
GAS MAIN	G
CAP AND PLUG END	---
ELECTRIC AND SIGNAL DUCT BANK	E
STEAM LINE	SF
STREET LIGHT CONDUIT	SL
COUNTUR ELEVATION LINE	85
SPOUT ELEVATION	95.5
DIRECTION OF SLOPE	1%
WATER METER	WM
WATER VALVE	WV
SIGN	↑
HANDICAP RAMP	△
CONCRETE THRUST BLOCK	△
SANITARY SEWER MANHOLE	●
SANITARY SEWER CLEANOUT	○
STORM SEWER MANHOLE	●
STORM SEWER AREA DRAIN	○
STORM SEWER CURB INLET	○
STORM SEWER CLEANOUT	○
ELECTROLER	○
DOWNSPOUT	DS

## ABBREVIATIONS

AB	- AGGREGATE BASE	HP	- HIGH POINT
AC	- ASPHALTIC CONCRETE	INV	- INVERT ELEVATION
AD	- AREA DRAIN	JP	- JOINT POLE
AS	- AGGREGATE SUBBASE	MAX	- MAXIMUM
BC	- BEGINNING OF CURVE	MIN	- MINIMUM
BFP	- BACK FLOW PREVENTOR	MPVC	- MIDPOINT OF VERTICAL CURVE
BLDC	- BUILDING CORNER	MW	- MANHOLE
BLD	- BUILDING LINE	N	- NORTH
BOW	- BOTTOM OF WALL	NO	- NUMBER
BS	- BOTTOM OF STEP	NTS	- NOT TO SCALE
BVC	- BEGIN VERTICAL CURVE	P	- PAVEMENT ELEVATION
BW	- BACK OF WALK	PCC	- PORTLAND CEMENT CONCRETE
C	- CONCRETE	PIV	- POST INDICATOR VALVE
CY	- CUBIC YARD	PL	- PROPERTY LINE
CB	- CATCH BASIN	PMH	- POWER MANHOLE
C&G	- CURB AND GUTTER	PP	- POWER POLE
CI	- CURB INLET	PVC	- POLYVINYL CHLORIDE PIPE
CFP	- CAST IRON PIPE	R	- RADIUS
CL	- CENTER LINE OR CLASS	RC	- RELATIVE COMPACTION
CO	- CLEANOUT	ROP	- REINFORCED CONCRETE PIPE
CMP	- CORRUGATED METAL PIPE	R/W	- RIGHT OF WAY
CONC	- CONCRETE	RWL	- RAIN WATER LEADER
CONST	- CONSTRUCTION OR CONSTRUCT	S	- SIDEWALK
DI	- DUCTILE IRON PIPE	S	- SLOPE SOUTH
DM	- DOMESTIC	S.A.D.	- SEE ARCHITECT DRAWINGS
DOM	- DOWNSPOUT	SG	- SUB GRADE
DW	- DOMESTIC WATER	SS	- SEE STRUCTURAL DRAWINGS
DWG	- DRAWING	S.L.D.	- SEE LANDSCAPE DRAWINGS
E	- EAST	S.E.D.	- SEE ELECTRICAL DRAWINGS
EC	- END OF CURVE	SB	- SEDIMENT BASIN
EP	- EDGE OF PAVEMENT	SD	- STORM DRAIN
ER	- END OF RETURN	SF	- SILT FENCE
EVC	- END VERTICAL CURVE	SG	- SUB GRADE
ELEV	- ELEVATION	SMH	- SIGNAL MANHOLE
EX-EXIST	- EXISTING	SS	- SANITARY SEWER
FC	- FLUSH CURB	STA	- STATION
FDC	- FIRE DEPARTMENT CONNECTION	STD	- STANDARD
FF	- FINISHED FLOOR	TYP	- TYPICAL
FG	- FINISHED GRADE	TC	- TOP OF CURB
FH	- FIRE HYDRANT	TS	- TOP OF STEP
FL	- FLOW LINE	TGB	- TOP OF BERM
FOUND	- FOUNDATION	TOW	- TOP OF WALL
FS	- FINISHED SURFACE	U/C	- UNDERGROUND
FT	- FOOT	UN	- UNLESS OTHERWISE NOTED
FW	- FIRE WATER	V/C	- VERTICAL CURVE
G	- GROUND	W	- WITH
GB	- GRADE BREAK	WM	- WATER METER
GRD	- GUARD RAIL	WV	- WATER VALVE
GV	- GATE VALVE	W	- WEST
HC	- HANDICAP	WWF	- WELDED WIRE FABRIC

## TOPOGRAPHIC SYMBOLS

SYMBOLS	DESCRIPTION
---	BUILDING LINE
---	FENCE
---	PROPERTY LINE
---	DIMENSION POINT

UTILITY SYMBOLS	DESCRIPTION
⊠	ELECTRIC BOX
⊠	ELECTRIC CONNECTION BOX
⊠	ELECTRIC SWITCH BOX
⊠	HEATING, VENTILATION AND AIR CONDITIONING UNIT
⊠	HIGH VOLTAGE VAULT
⊠	MOTION DETECTOR

## SHEET INDEX

C-1.0	COVER SHEET
C-2.0	SITE TOPOGRAPHIC SURVEY
C-2.1	ROADWAY TOPOGRAPHIC SURVEY
C-3.0	SITE DEMOLITION PLAN
C-3.1	ROADWAY DEMOLITION PLAN
C-4.0	SITE GRADING AND DRAINAGE PLAN
C-4.1	ROADWAY GRADING AND DRAINAGE PLAN
C-5.0	UTILITY PLAN
C-6.0	CONSTRUCTION DETAILS
C-6.1	CONSTRUCTION DETAILS
C-7.0	SITE TEMPORARY EROSION CONTROL PLAN
C-7.1	ROADWAY TEMPORARY EROSION CONTROL PLAN
C-7.2	EROSION CONTROL DETAILS
C-8.0	STRIPPING PLAN

## TOPOGRAPHIC AND BOUNDARY NOTE

- PREPARED BY TRONOFF ASSOCIATES LAND SURVEYORS DATED JULY 23, 2012. APPROVED BY BRUCE T. TRONOFF, LAND SURVEYOR NO. 6415
- SUPP-1000 PREPARED BY SANDIS DATED OCTOBER 11, 2012. APPROVED BY LAURA J. CABRAL, LAND SURVEYOR NO. 7756

## GEOTECHNICAL INVESTIGATION

A GEOTECHNICAL LETTER HAS BEEN PREPARED FOR THE ROADWAY PORTION OF THIS PROJECT BY TREADWELL & ROLLO ON NOVEMBER 8, 2012. PROJ. NO. 731602401

## UNAUTHORIZED CHANGES AND USES

CAUTION: 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 the plans.

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F. 408.636.0999  
www.sandis.net

DATE: FEBRUARY 15, 2013  
KENNETH N. OLCOTT  
R.C.E. NO. 51079, EXPIRES 9-30-13

No.	Date	ISSUED FOR REVIEW	Description	By

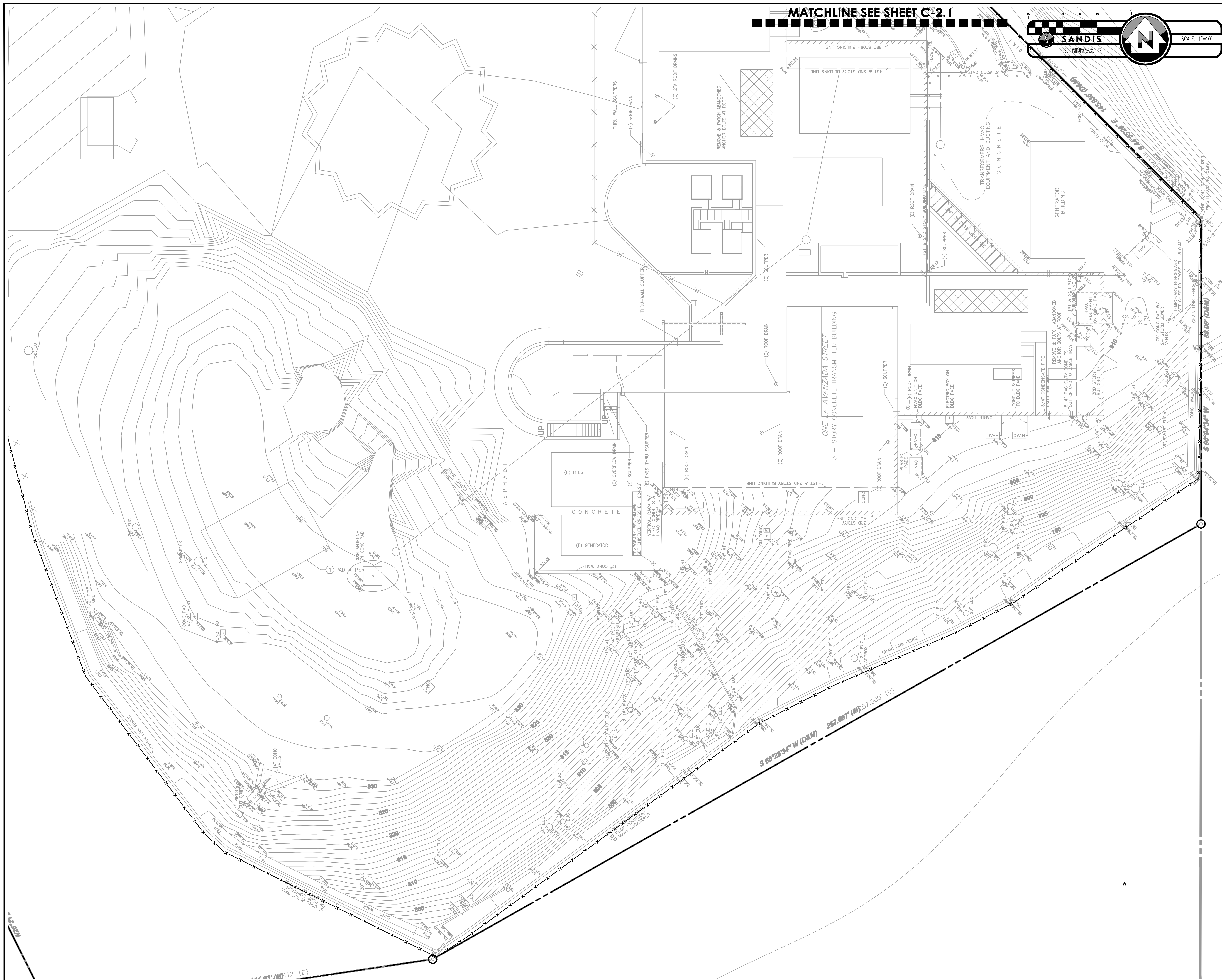
## SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER 1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA

Project

## COVER SHEET

Commission	Checked	Date
212121	JP	02/15/13
Drawn	Approved	Scale
LW	AT	NO SCALE

Drawing Title  
Drawing No.  
**C-1.0**



MATCHLINE SEE SHEET C-2.1

**SANDIS**  
SUNNYVALE

SCALE: 1"=10'

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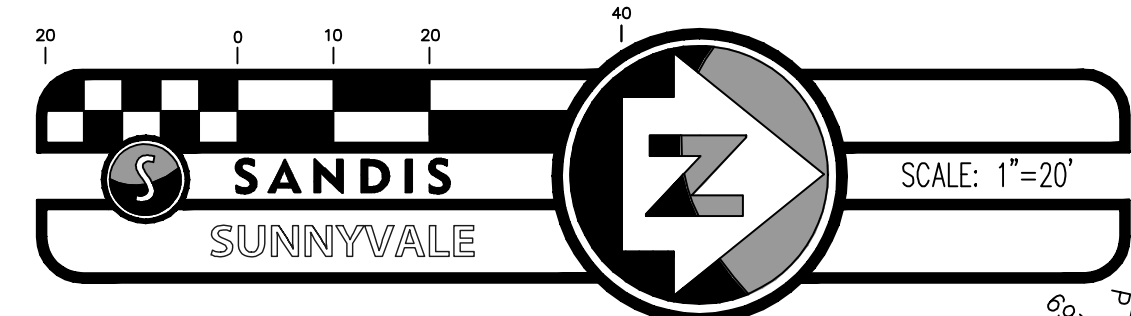
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

Project

**SITE TOPOGRAPHIC SURVEY**

Drawing Title

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=10'
Drawing No.		<b>C-2.0</b>



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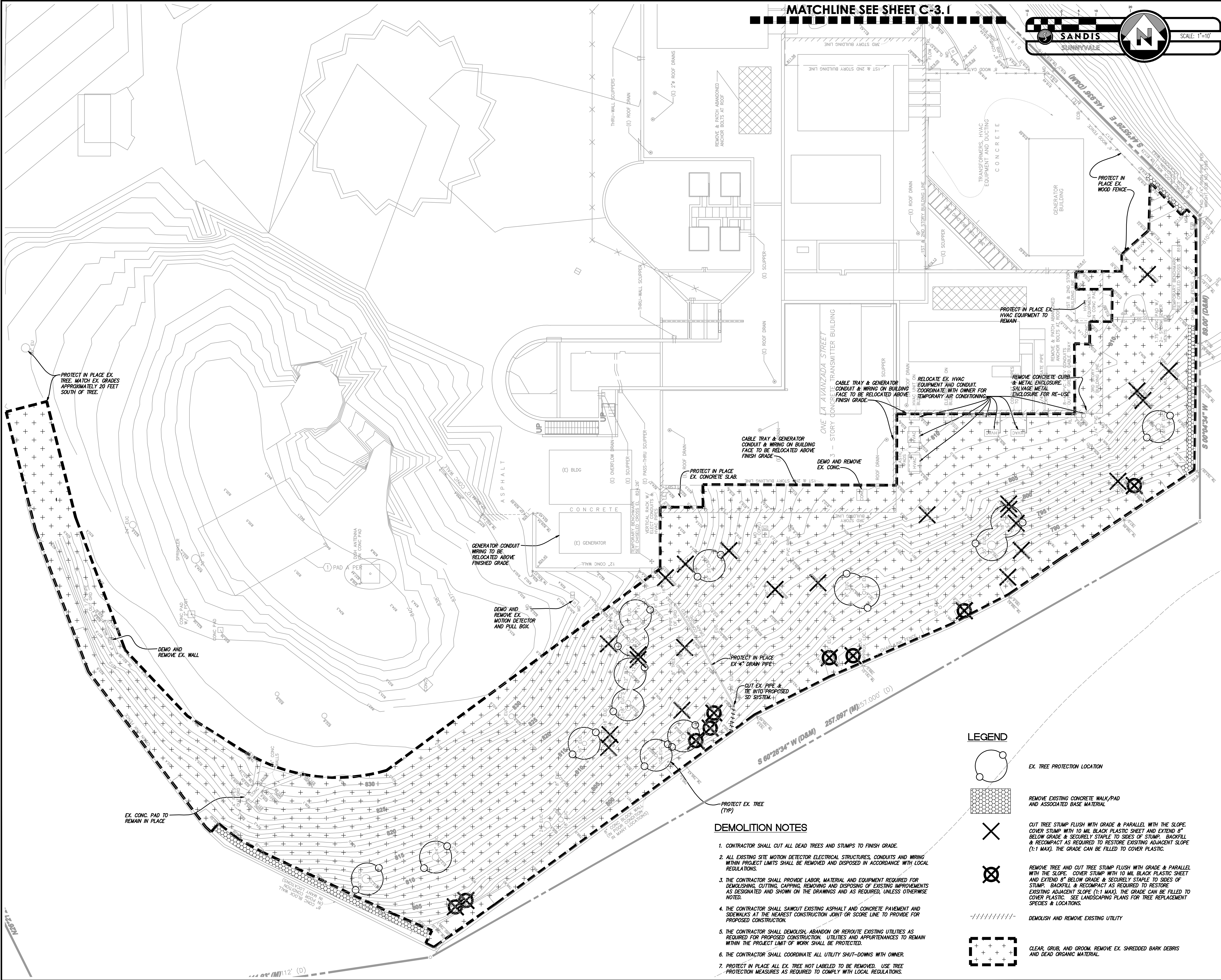
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

Project

**ROADWAY TOPOGRAPHIC SURVEY**

Drawing Title

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=20'
Drawing No.		<b>C-2.1</b>



**LEGEND**

- EX. TREE PROTECTION LOCATION
- REMOVE EXISTING CONCRETE WALK/PAD AND ASSOCIATED BASE MATERIAL
- CUT TREE STUMP FLUSH WITH GRADE & PARALLEL WITH THE SLOPE. COVER STUMP WITH 10 MIL BLACK PLASTIC SHEET AND EXTEND 8" BELOW GRADE & SECURELY STAPLE TO SIDES OF STUMP. BACKFILL & RECOMPACT AS REQUIRED TO RESTORE EXISTING ADJACENT SLOPE (1:1 MAX). THE GRADE CAN BE FILLED TO COVER PLASTIC.
- REMOVE TREE AND CUT TREE STUMP FLUSH WITH GRADE & PARALLEL WITH THE SLOPE. COVER STUMP WITH 10 MIL BLACK PLASTIC SHEET AND EXTEND 8" BELOW GRADE & SECURELY STAPLE TO SIDES OF STUMP. BACKFILL & RECOMPACT AS REQUIRED TO RESTORE EXISTING ADJACENT SLOPE (1:1 MAX). THE GRADE CAN BE FILLED TO COVER PLASTIC. SEE LANDSCAPING PLANS FOR TREE REPLACEMENT SPECIES & LOCATIONS.
- DEMOLISH AND REMOVE EXISTING UTILITY
- CLEAR, GRUB, AND GROOM. REMOVE EX. SHREDDED BARK DEBRIS AND DEAD ORGANIC MATERIAL.

**DEMOLITION NOTES**

1. CONTRACTOR SHALL CUT ALL DEAD TREES AND STUMPS TO FINISH GRADE.
2. ALL EXISTING SITE MOTION DETECTOR ELECTRICAL STRUCTURES, CONDUITS AND WIRING WITHIN PROJECT LIMITS SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR DEMOLISHING, CUTTING, CAPPING, REMOVING AND DISPOSING OF EXISTING IMPROVEMENTS AS DESIGNATED AND SHOWN ON THE DRAWINGS AND AS REQUIRED, UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AND SIDEWALKS AT THE NEAREST CONSTRUCTION JOINT OR SCORE LINE TO PROVIDE FOR PROPOSED CONSTRUCTION.
5. THE CONTRACTOR SHALL DEMOLISH, ABANDON OR REROUTE EXISTING UTILITIES AS REQUIRED FOR PROPOSED CONSTRUCTION. UTILITIES AND APPURTENANCES TO REMAIN WITHIN THE PROJECT LIMIT OF WORK SHALL BE PROTECTED.
6. THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUT-DOWNS WITH OWNER.
7. PROTECT IN PLACE ALL EX. TREE NOT LABELED TO BE REMOVED. USE TREE PROTECTION MEASURES AS REQUIRED TO COMPLY WITH LOCAL REGULATIONS.


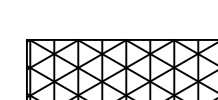


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**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

**SITE DEMOLITION PLAN**

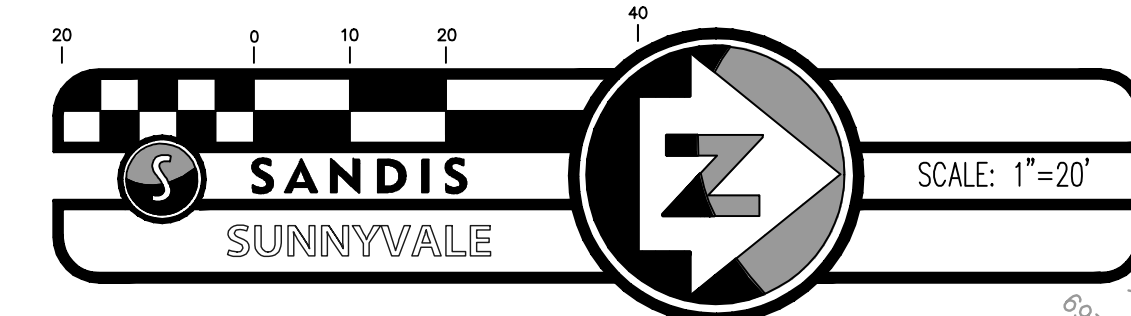
Project		Drawing Title	
212121	JP	02/15/13	Scale 1"=10'
LW	AT		
		Drawing No.	
		<b>C-3.0</b>	

**LEGEND**

-  AC PAVEMENT TO BE REMOVED (SAVE AND PROTECT BASE MATERIAL)
-  CLEAR, GRUB AND GROOM. REMOVE EX. SHERDEDDED BARK.
-  REMOVE TREE AND CUT TREE STUMP FLUSH WITH GRADE & PARALLEL WITH THE SLOPE. COVER STUMP WITH 10 MIL BLACK PLASTIC SHEET AND EXTEND 1" BELOW GRADE & SECURELY STAPLE TO SIDES OF STUMP. BACKFILL & RECOMPACT AS REQUIRED TO RESTORE EXISTING ADJACENT SLOPE (1:1 MAX). THE GRADE CAN BE FILLED TO COVER PLASTIC. SEE LANDSCAPING PLANS FOR TREE REPLACEMENT SPECIES & LOCATIONS.
-  APPROXIMATE LIMIT OF WORK

**DEMOLITION NOTES**

1. PROTECT IN PLACE ALL EX. TREES NOT LABELED TO BE REMOVED. USE TREE PROTECTION MEASURES AS REQUIRED TO COMPLY WITH LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR DEMOLISHING, CUTTING, CAPPING, REMOVING AND DISPOSING OF EXISTING IMPROVEMENTS AS DESIGNATED AND SHOWN ON THE DRAWINGS AND AS REQUIRED, UNLESS OTHERWISE NOTED.
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4. THE CONTRACTOR SHALL DEMOLISH, ABANDON OR REROUTE EXISTING UTILITIES AS REQUIRED FOR PROPOSED CONSTRUCTION. UTILITIES AND APPURTENANCES TO REMAIN WITHIN THE PROJECT LIMIT OF WORK SHALL BE PROTECTED.
5. THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUT-DOWNS WITH OWNER.



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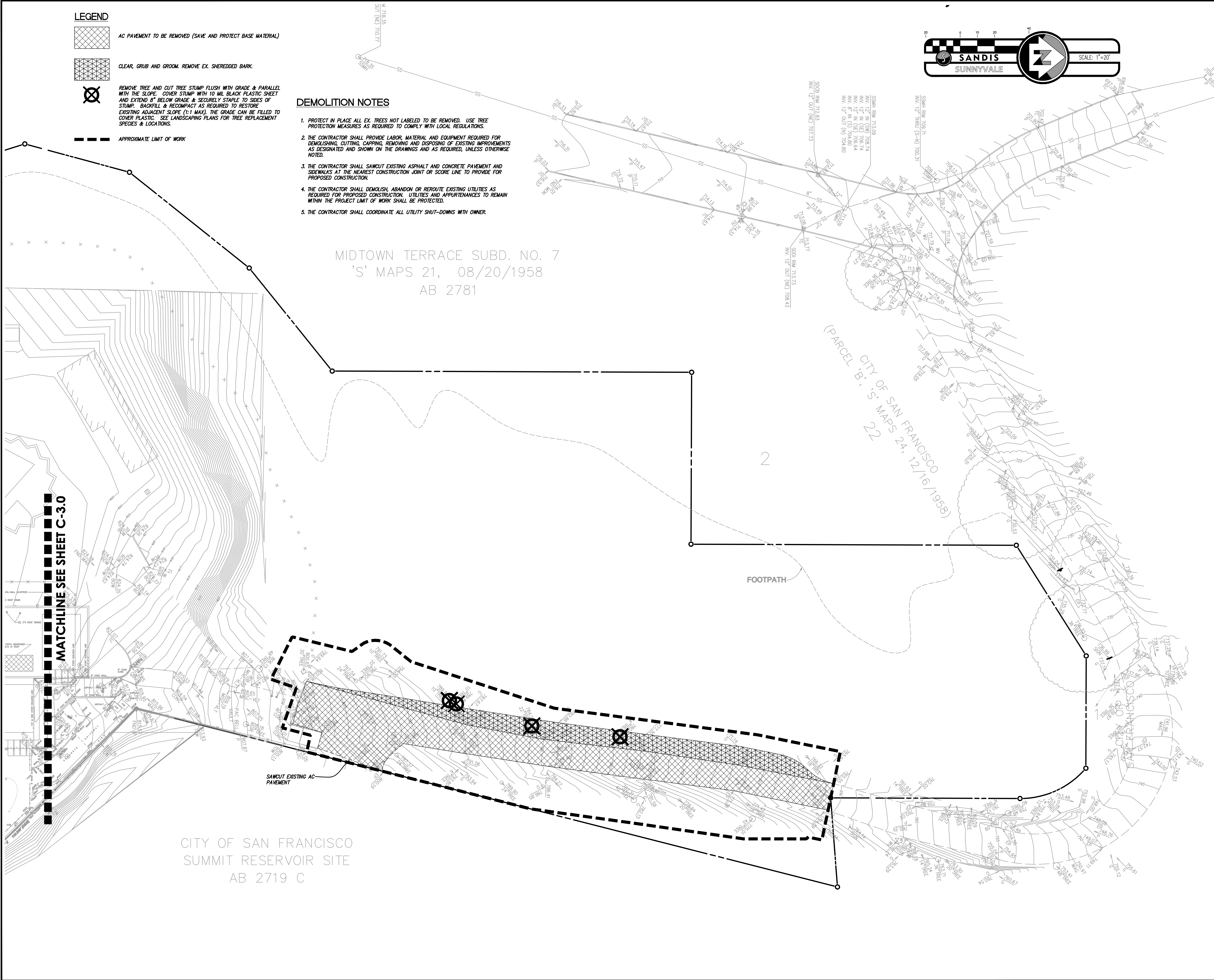
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DATE: FEBRUARY 15, 2013

KENNETH N. OLCOTT  
R.C.E. No. 51079, EXPIRES 9-30-13



MIDTOWN TERRACE SUBD. NO. 7  
'S' MAPS 21, 08/20/1958  
AB 2781

(PARCEL 'B', 'S' MAPS 24, 12/16/1958)

MATCHLINE SEE SHEET C-3.0

CITY OF SAN FRANCISCO  
SUMMIT RESERVOIR SITE  
AB 2719 C

No.	Date	ISSUED FOR REVIEW Description	By

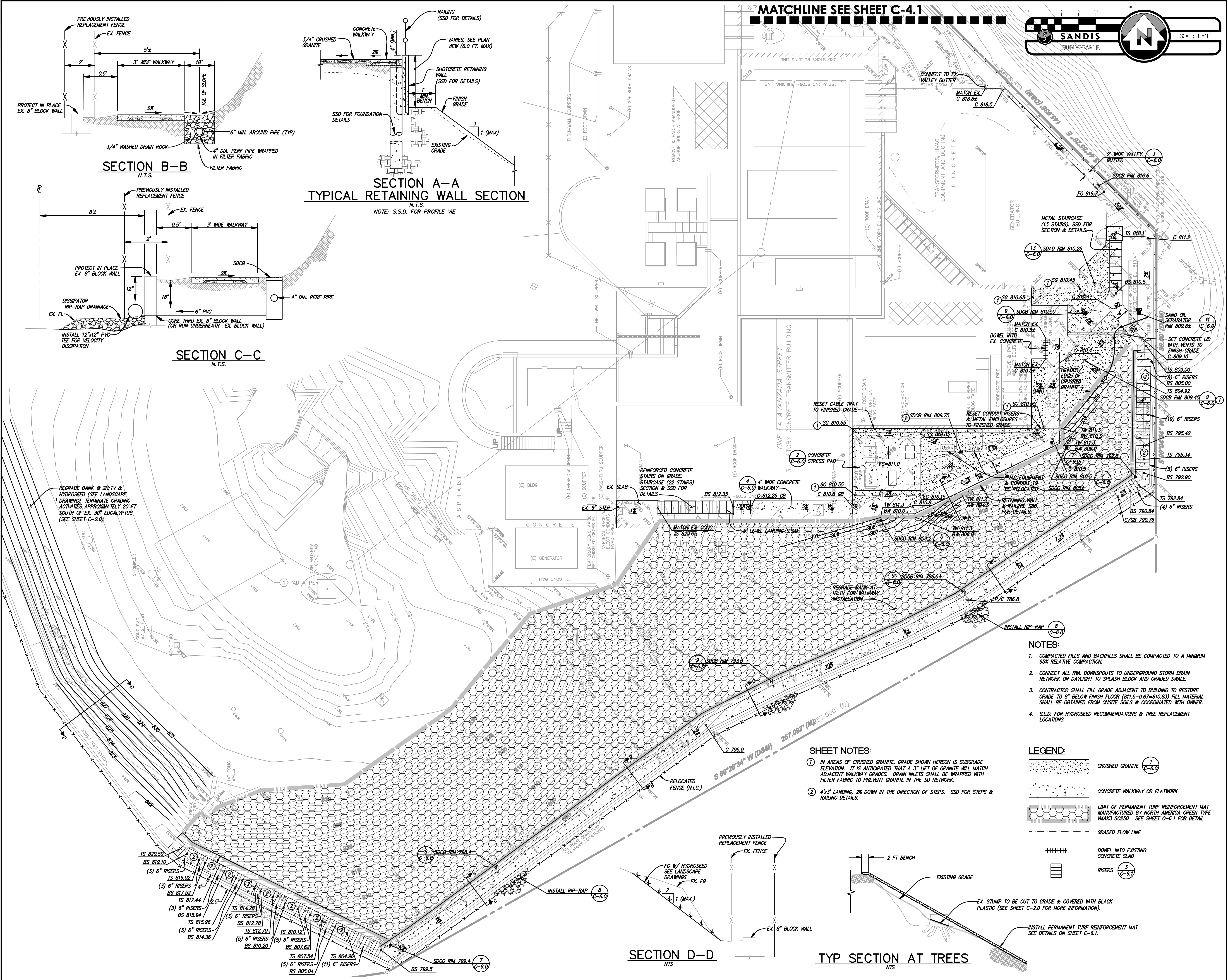
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

Project

**ROADWAY DEMOLITION PLAN**

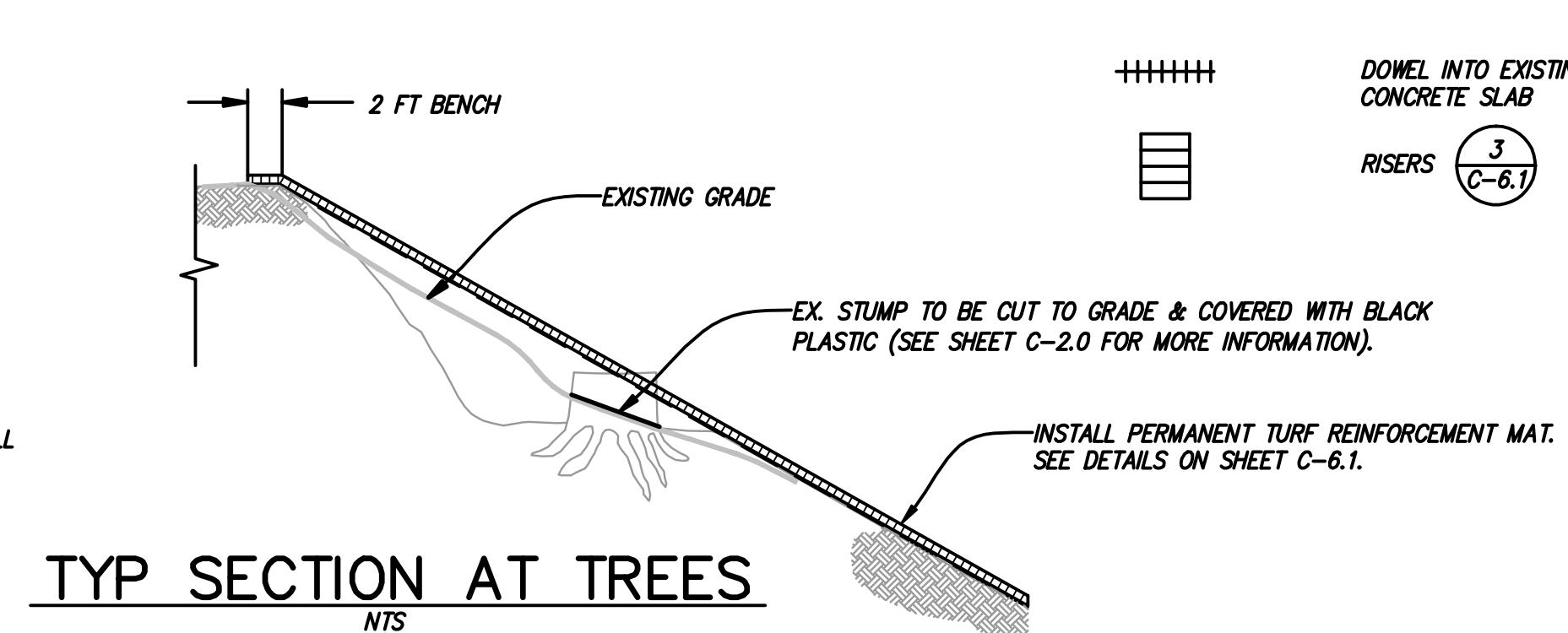
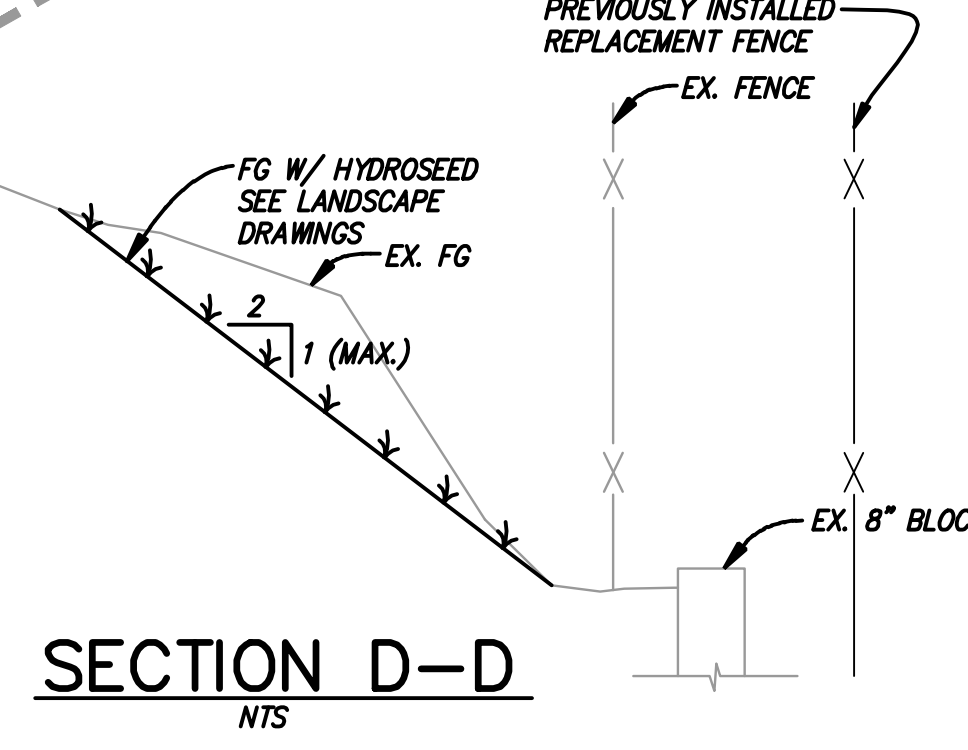
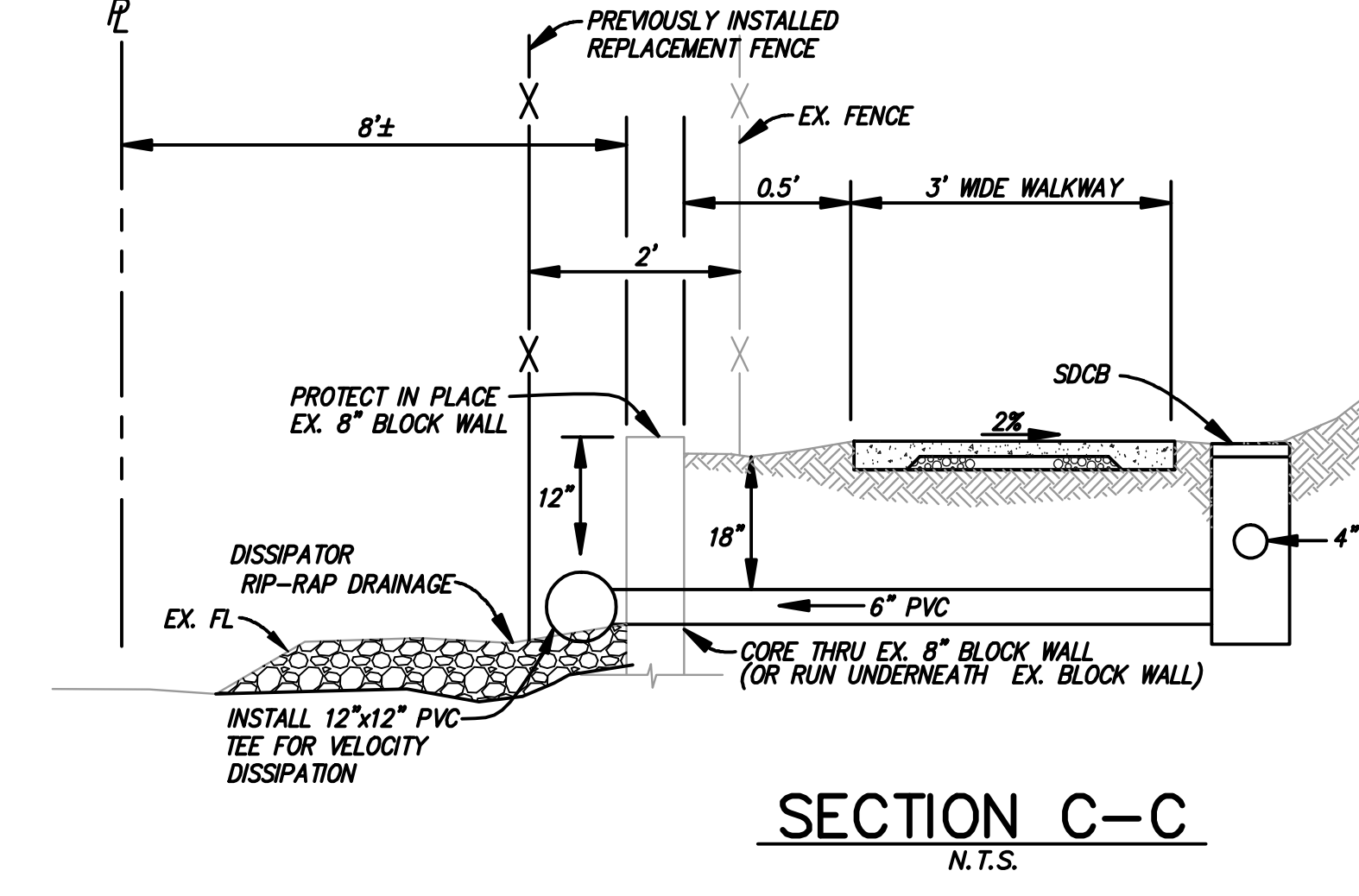
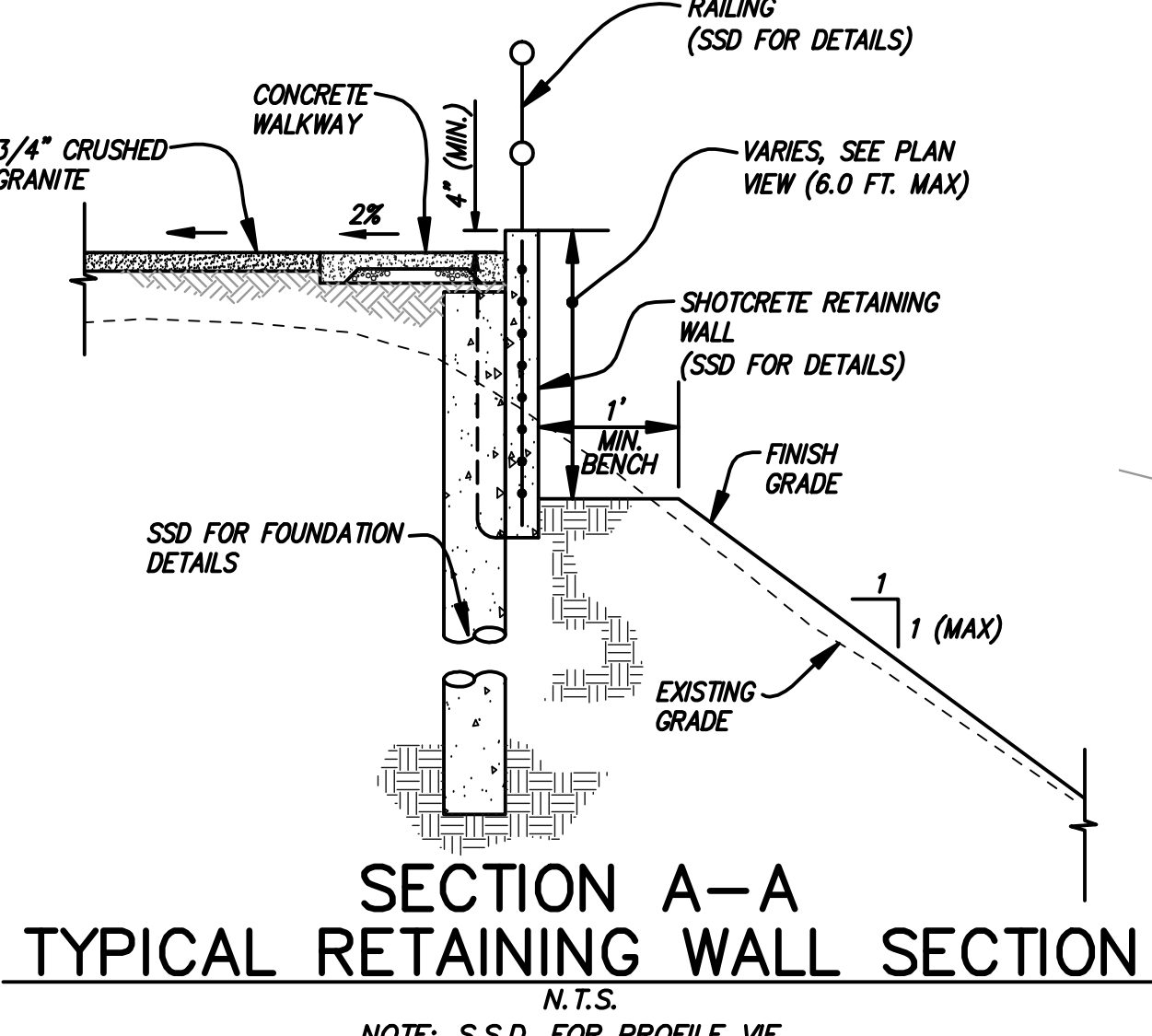
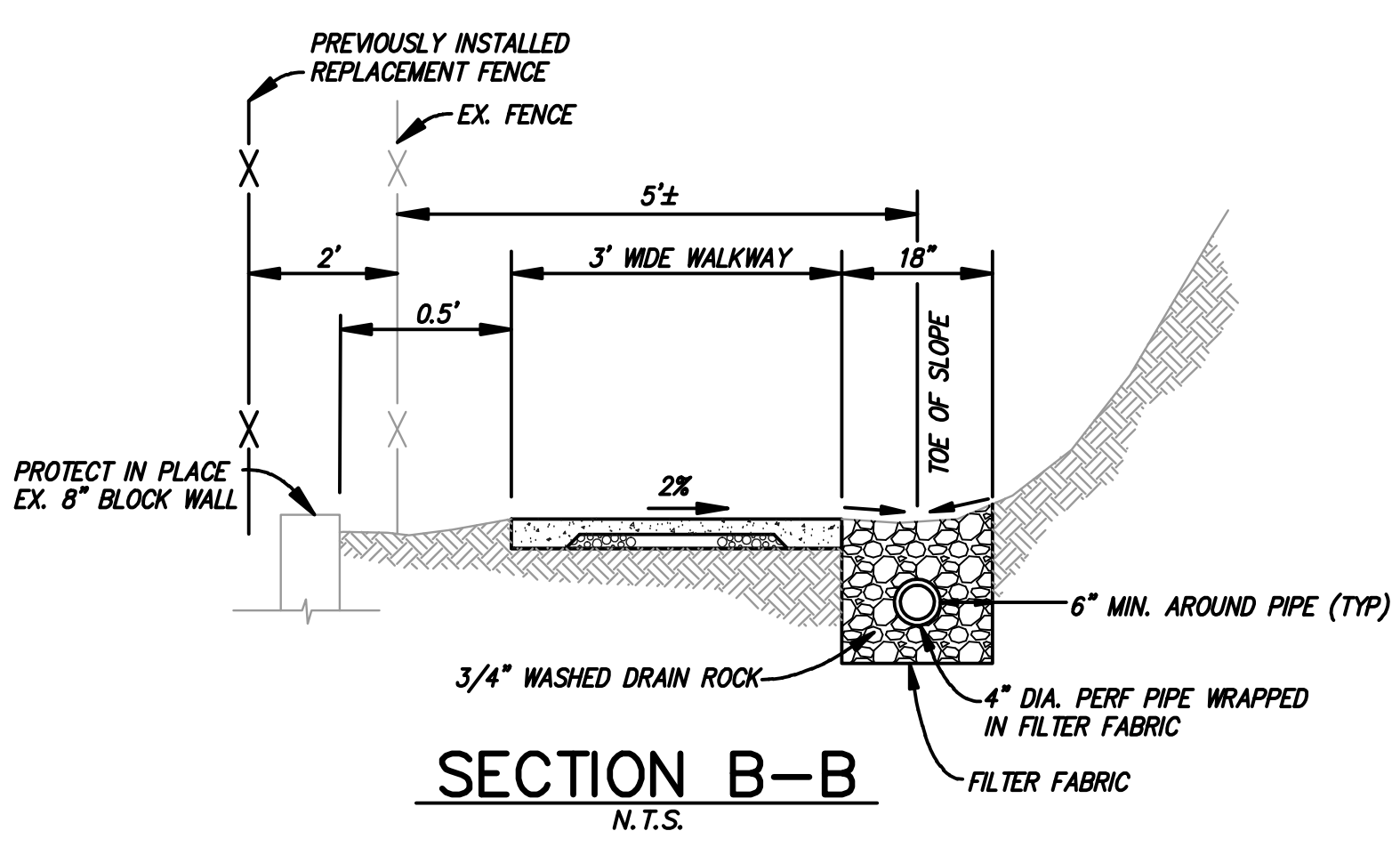
Drawing Title

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=20'
Drawing No.		<b>C-3.1</b>



**MATCHLINE SEE SHEET C-4.1**

**SANDIS**  
SUNNYVALE  
SCALE: 1"=10'



- NOTES:**
1. COMPACTED FILLS AND BACKFILLS SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
  2. CONNECT ALL R/W DOWNSPOUTS TO UNDERGROUND STORM DRAIN NETWORK OR DAYLIGHT TO SPLASH BLOCK AND GRADED SWALE.
  3. CONTRACTOR SHALL FILL GRADE ADJACENT TO BUILDING TO RESTORE GRADE TO 8" BELOW FINISH FLOOR (811.5-0.67=810.83) FILL MATERIAL SHALL BE OBTAINED FROM ONSITE SOILS & COORDINATED WITH OWNER.
  4. S.L.D. FOR HYDROSEED RECOMMENDATIONS & TREE REPLACEMENT LOCATIONS.

- SHEET NOTES:**
1. IN AREAS OF CRUSHED GRANITE, GRADE SHOWN HEREON IS SUBGRADE ELEVATION. IT IS ANTICIPATED THAT A 3" LIFT OF GRANITE WILL MATCH ADJACENT WALKWAY GRADES. DRAIN INLETS SHALL BE WRAPPED WITH FILTER FABRIC TO PREVENT GRANITE IN THE SD NETWORK.
  2. 4'x3' LANDING, 2% DOWN IN THE DIRECTION OF STEPS. SSD FOR STEPS & RAILING DETAILS.
- LEGEND:**
- CRUSHED GRANITE (1 C-6.0)
  - CONCRETE WALKWAY OR FLATWORK
  - LIMIT OF PERMANENT TURF REINFORCEMENT MAT MANUFACTURED BY NORTH AMERICA GREEN TYPE VMX3 SC250. SEE SHEET C-6.1 FOR DETAIL
  - GRADED FLOW LINE
  - DOWEL INTO EXISTING CONCRETE SLAB
  - RISERS (3 C-6.1)

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DATE: FEBRUARY 15, 2013

KENNETH N. OLCOTT  
R.C.E. NO. 51079, EXPIRES 9-30-13

No.	Date	ISSUED FOR REVIEW	Description	By

**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

Project

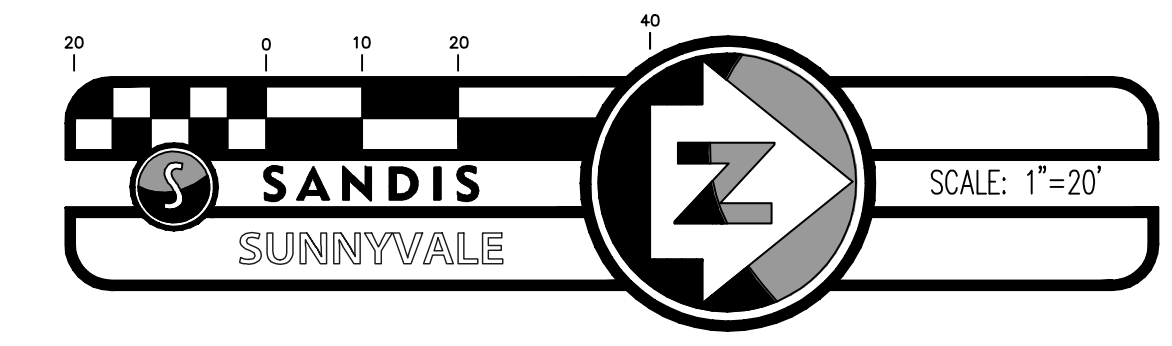
**SITE GRADING AND DRAINAGE PLAN**

Drawing Title

Commission	Checked	Date
212121	JP	02/15/13
Drawn	Approved	Scale
LW	AT	1"=10'

Drawing No.

**C-4.0**



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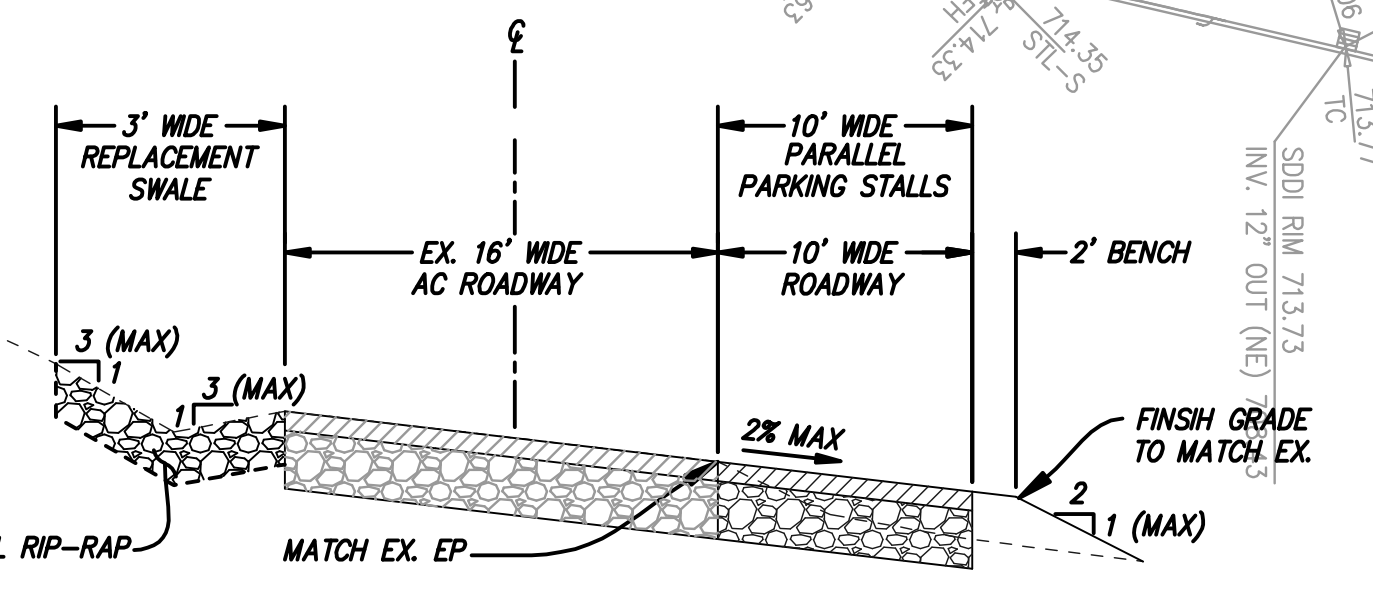
**LEGEND:**

- AC PAVEMENT (1 C-6.7)
- RIP-RAP LINED SWALE (8 C-6.8)
- FINISH GRADE CONTOUR (780)
- EXISTING GRADE CONTOUR (780)
- SAWCUT & CONFORM (2 C-6.7)
- REMOVE TREE AND CUT TREE STUMP FLUSH WITH GRADE & PARALLEL WITH THE SLOPE. COVER STUMP WITH 10 ML BLACK PLASTIC SHEET AND EXTEND 8" BELOW GRADE & SECURELY STAPLE TO SIDES OF STUMP. BACKFILL & RECOMPACT AS REQUIRED TO RESTORE EXISTING ADJACENT SLOPE (1:1 MAX). THE GRADE CAN BE FILLED TO COVER PLASTIC. SEE LANDSCAPING PLANS FOR TREE REPLACEMENT SPECIES & LOCATIONS.

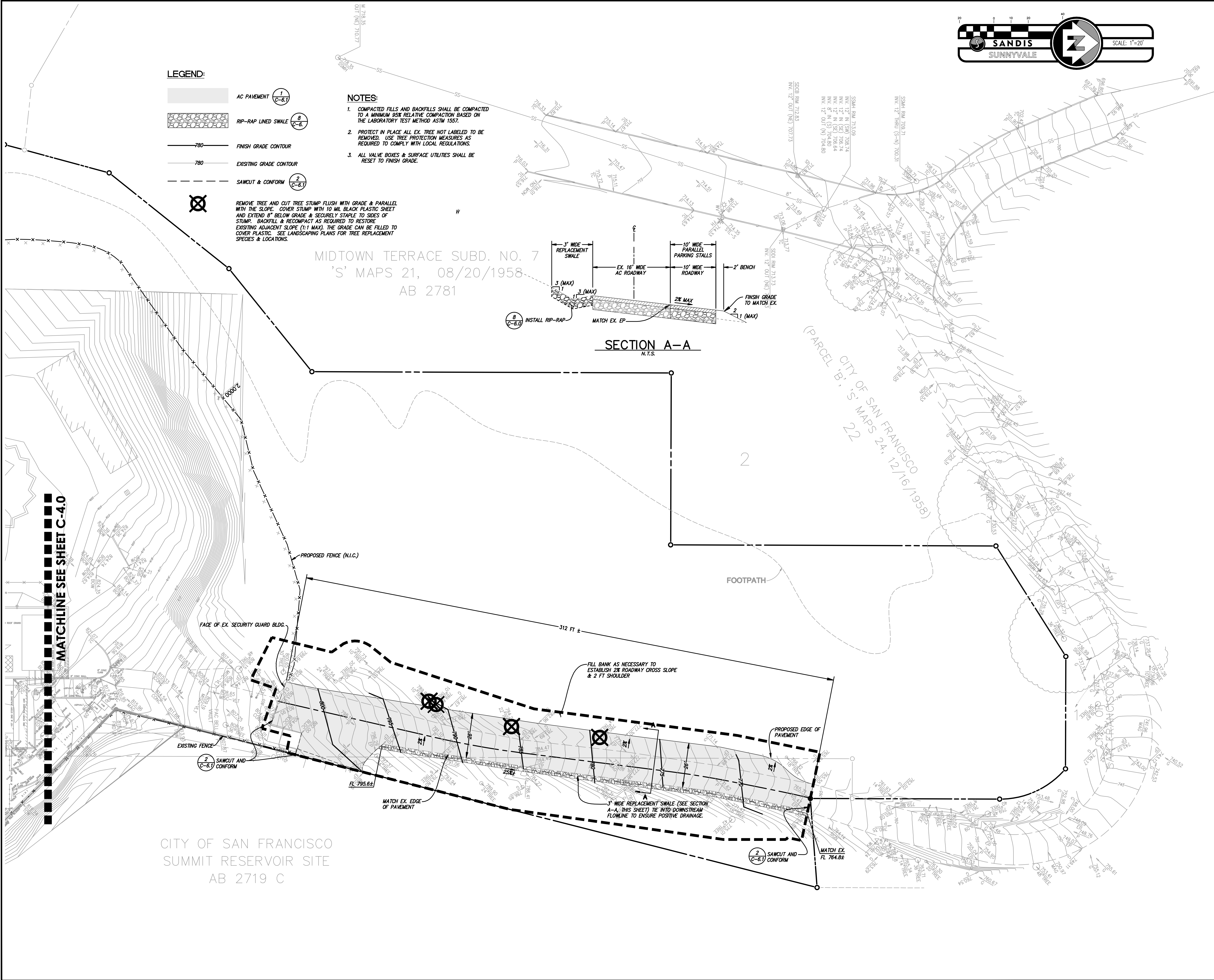
**NOTES:**

1. COMPACTED FILLS AND BACKFILLS SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION BASED ON THE LABORATORY TEST METHOD ASTM 1557.
2. PROTECT IN PLACE ALL EX. TREE NOT LABELED TO BE REMOVED. USE TREE PROTECTION MEASURES AS REQUIRED TO COMPLY WITH LOCAL REGULATIONS.
3. ALL VALVE BOXES & SURFACE UTILITIES SHALL BE RESET TO FINISH GRADE.

MIDTOWN TERRACE SUBD. NO. 7  
'S' MAPS 21, 08/20/1958  
AB 2781



**SECTION A-A**  
N.T.S.



CITY OF SAN FRANCISCO  
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AB 2719 C

MATCHLINE SEE SHEET C-4.0

No.	Date	ISSUED FOR REVIEW Description	By

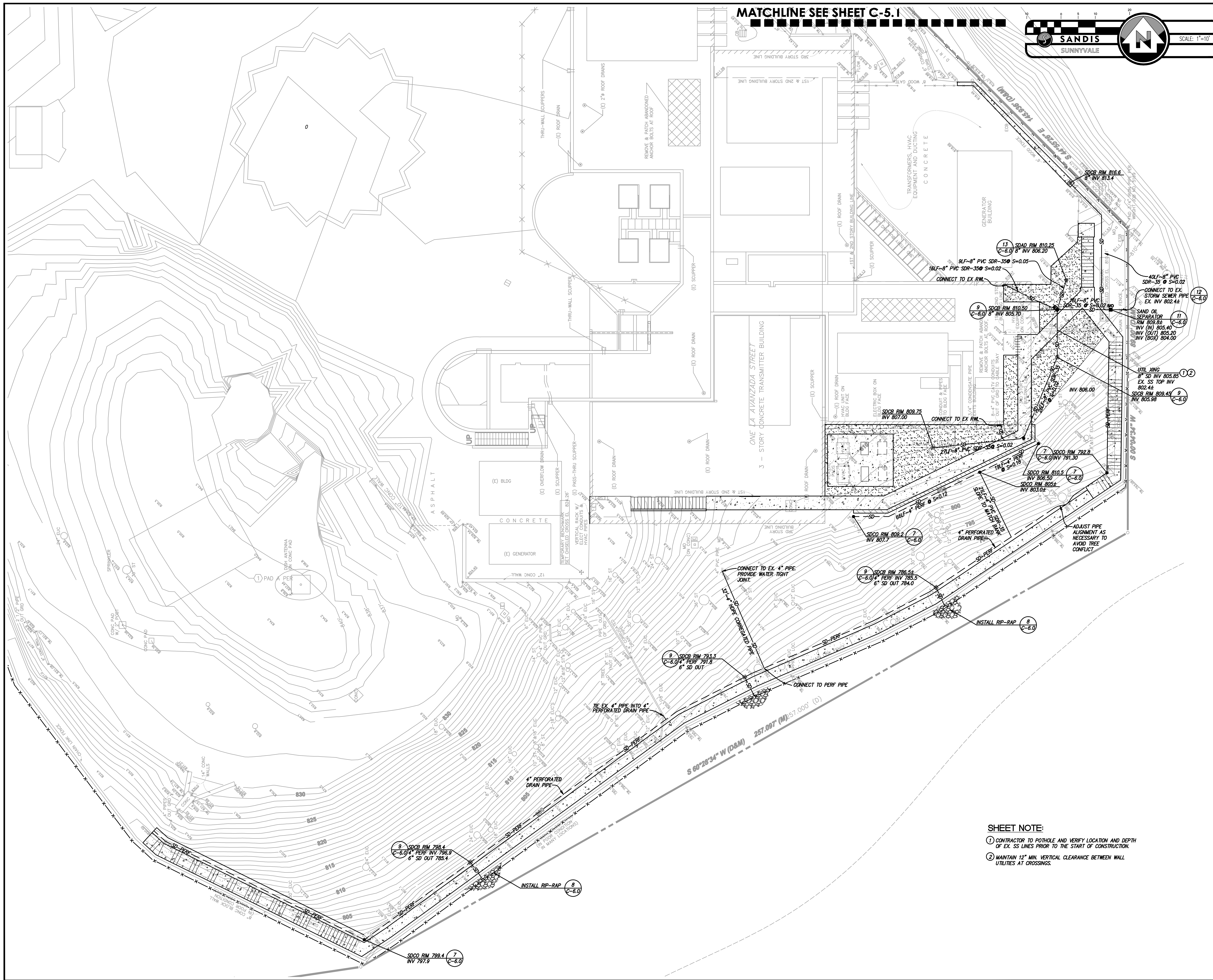
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
1 LA AVANZADA ST  
SAN FRANCISCO  
CALIFORNIA

Project

**ROADWAY GRADING AND DRAINAGE PLAN**

Drawing Title

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=20'
Drawing No.		<b>C-4.1</b>



MATCHLINE SEE SHEET C-5.1

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SCALE: 1"=10'

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No.	Date	ISSUED FOR REVIEW Description	By
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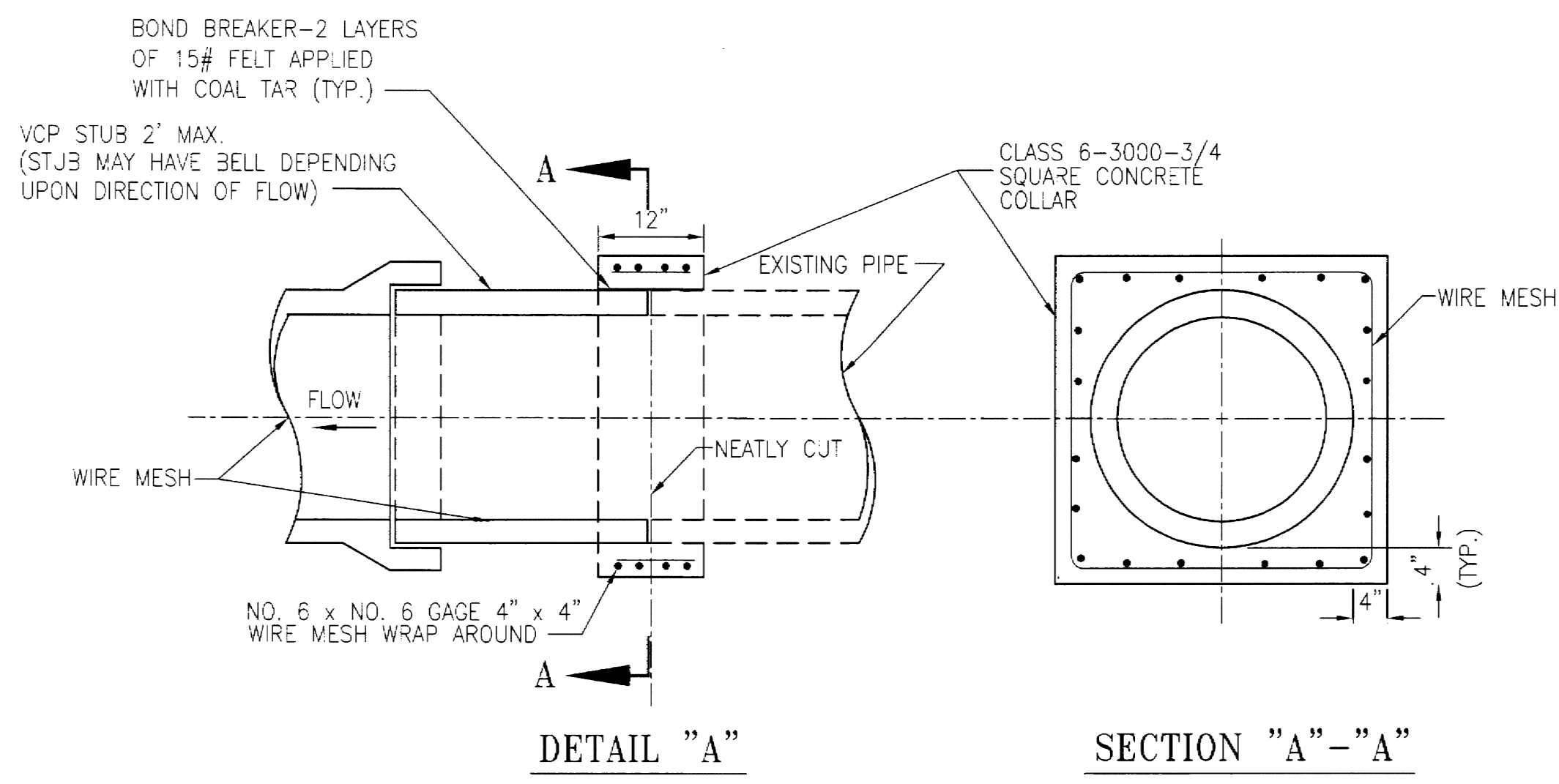
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
1 LA AVANZADA ST  
SAN FRANCISCO  
CALIFORNIA

**UTILITY PLAN**

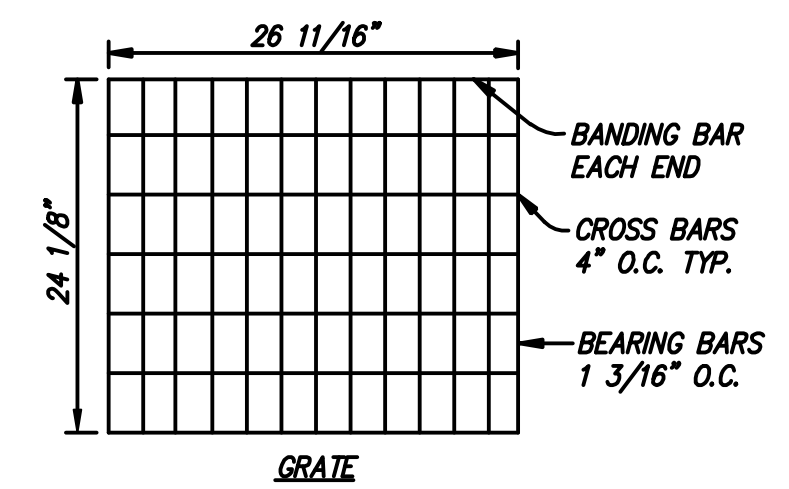
- SHEET NOTE:**
- CONTRACTOR TO POTHOLE AND VERIFY LOCATION AND DEPTH OF EX. SS LINES PRIOR TO THE START OF CONSTRUCTION.
  - MAINTAIN 12" MIN. VERTICAL CLEARANCE BETWEEN WALL UTILITIES AT CROSSINGS.

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=10'
Drawing No. <b>C-5.0</b>		

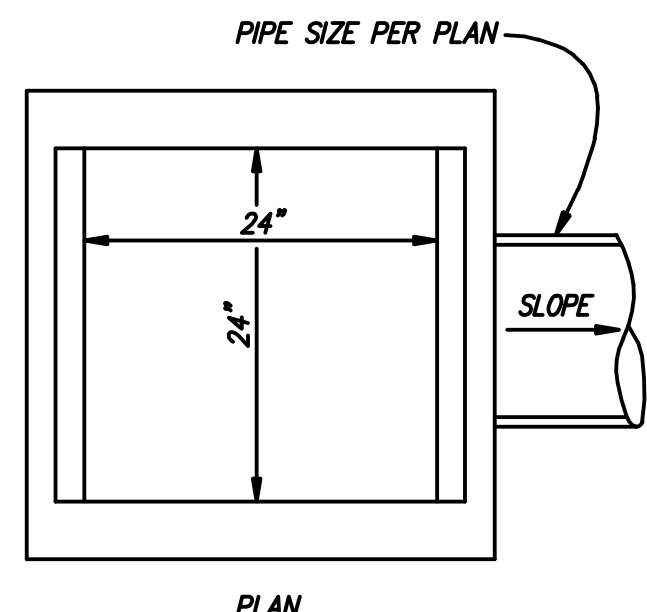




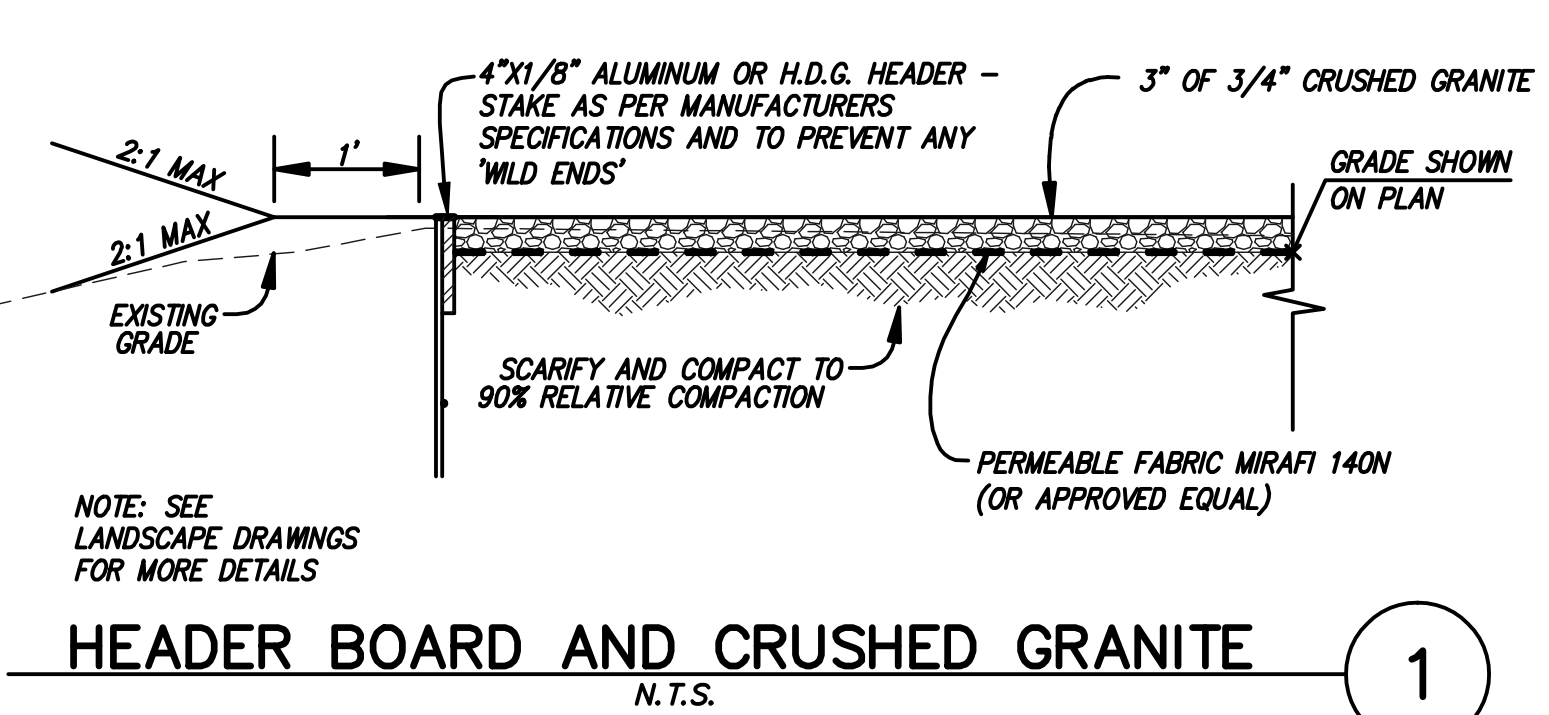
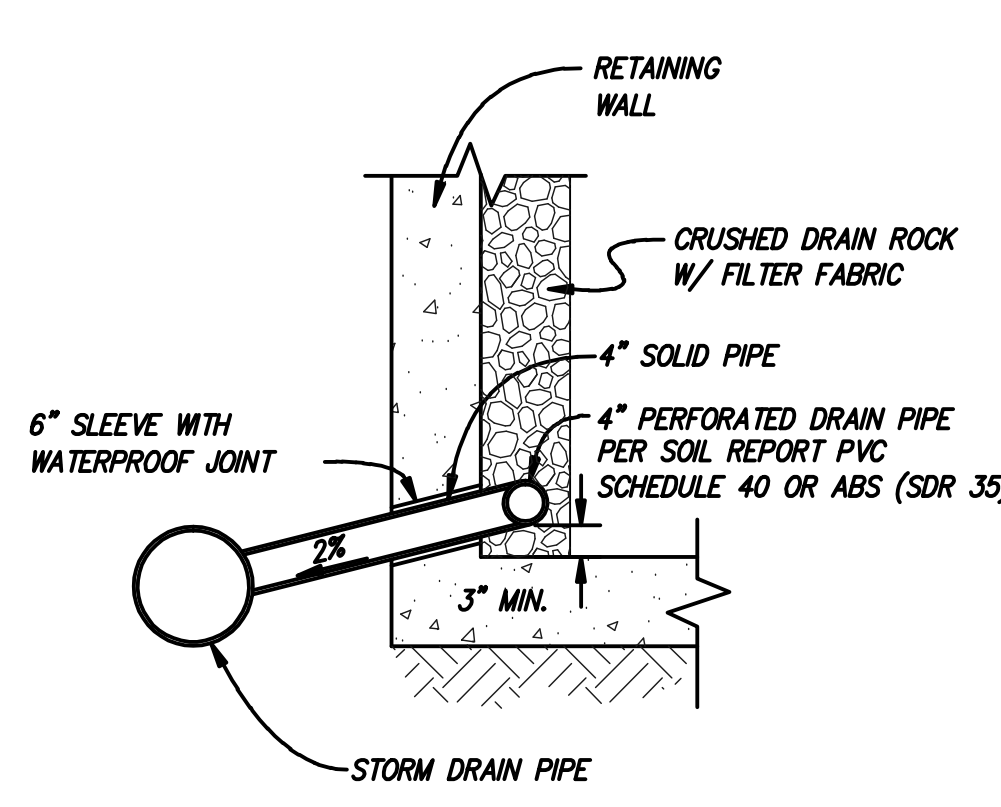
CONNECTION TO SIMILAR SIZE SEWERS  
NO SCALE



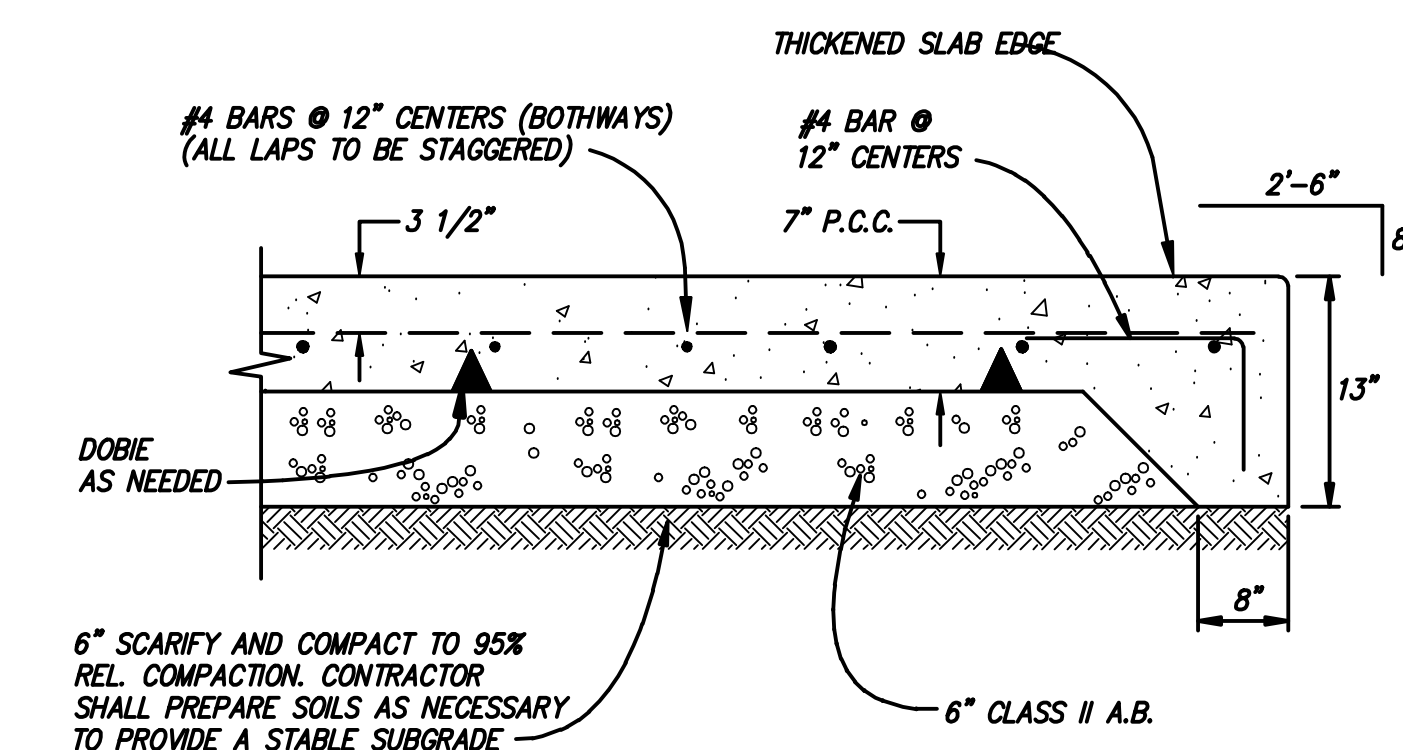
- NOTES**
- FRAMES AND GRATES SHALL BE HOT-DIPPED GALV. & HEAVY-DUTY DESIGNED FOR H20 HIGHWAY LOADING.
  - ALL GRATES SHALL BE BICYCLE PROOF.
  - FOR JUNCTION BOXES (JB), ADD STEEL CHECKER PLATE MARKED "STORM DRAIN".



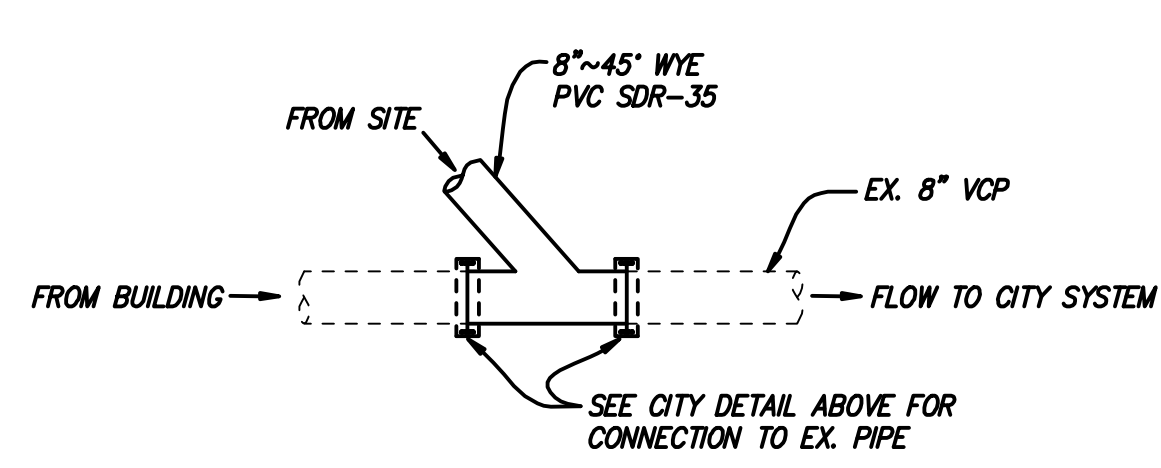
24" CATCH BASIN DETAIL  
N.T.S.



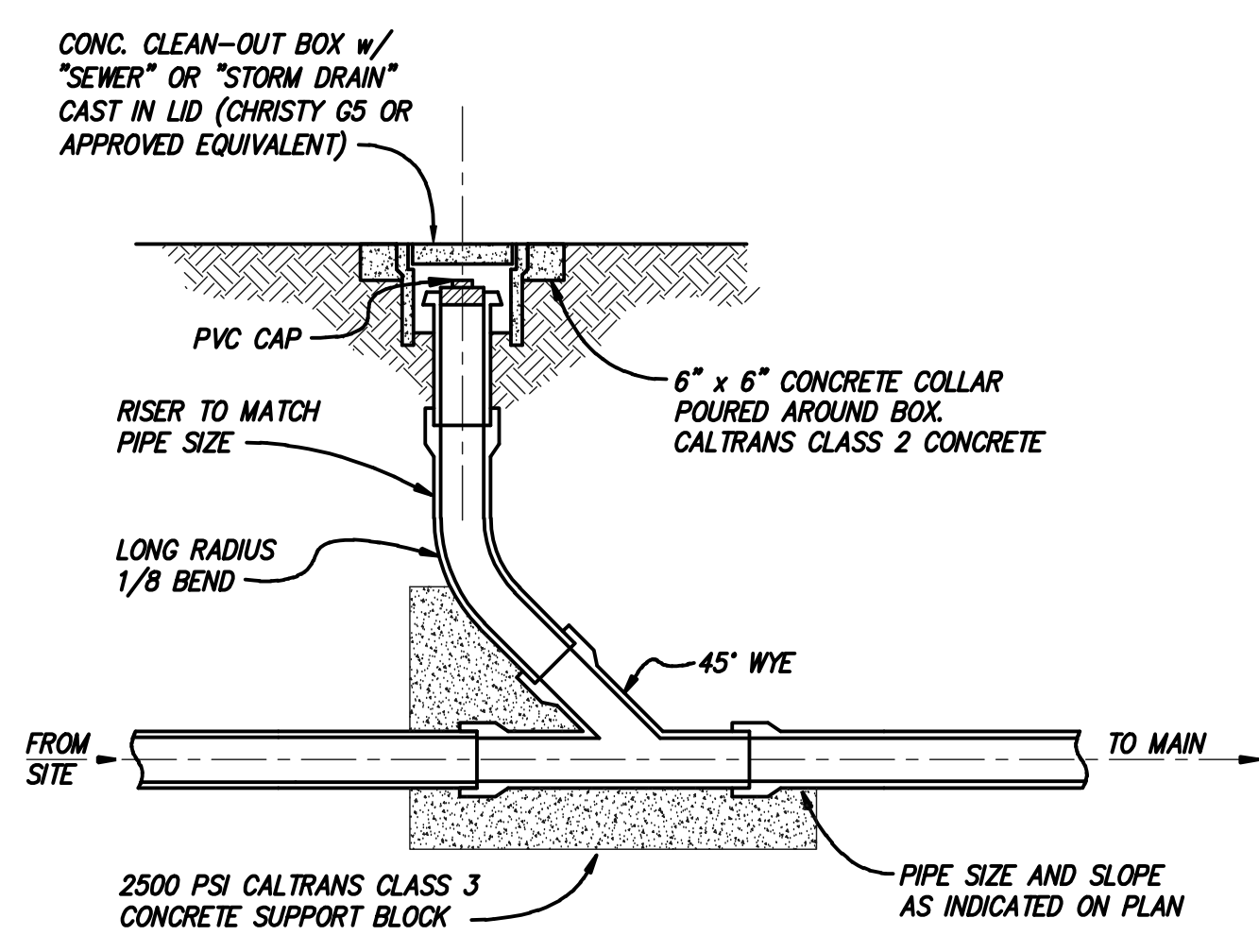
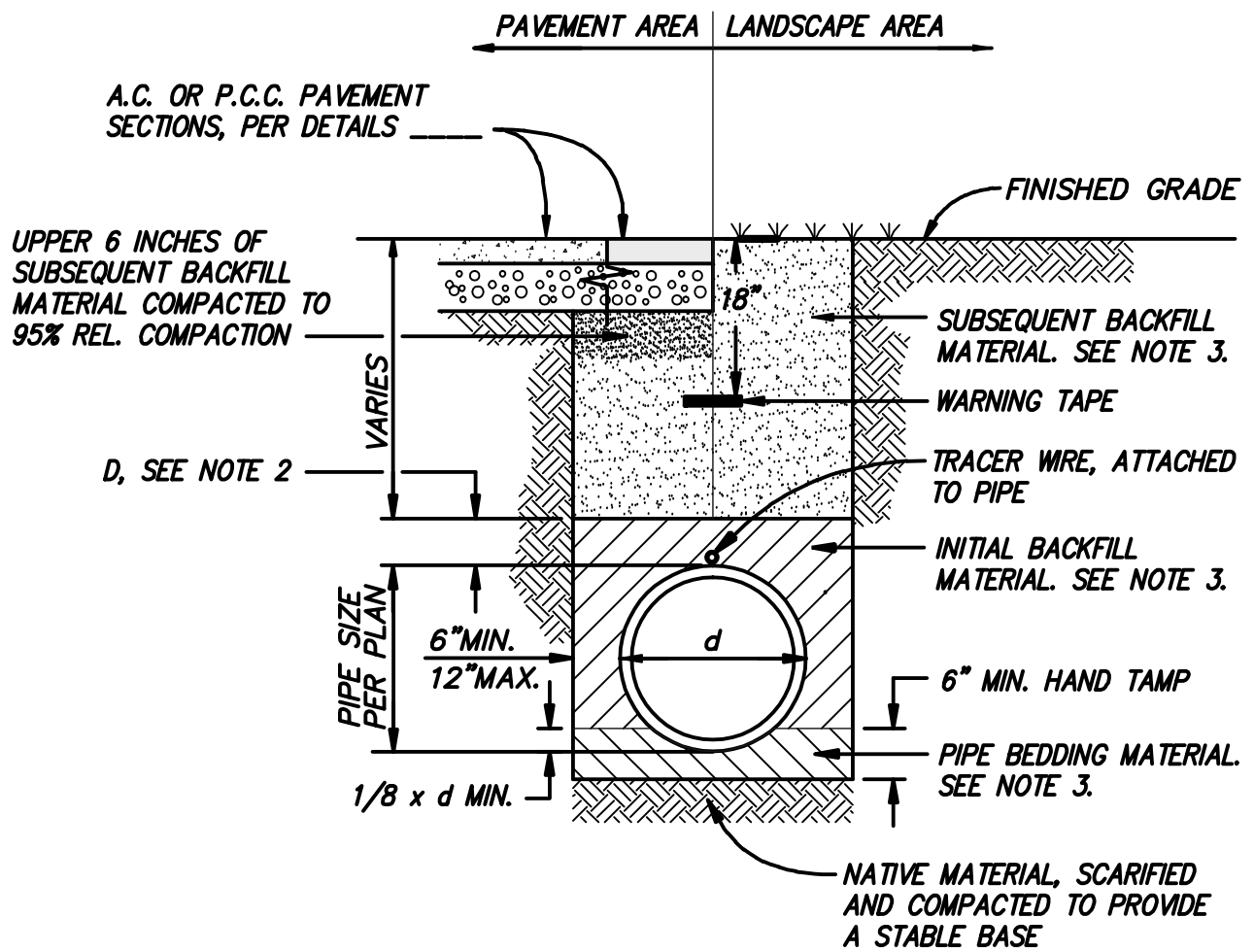
HEADER BOARD AND CRUSHED GRANITE  
N.T.S.



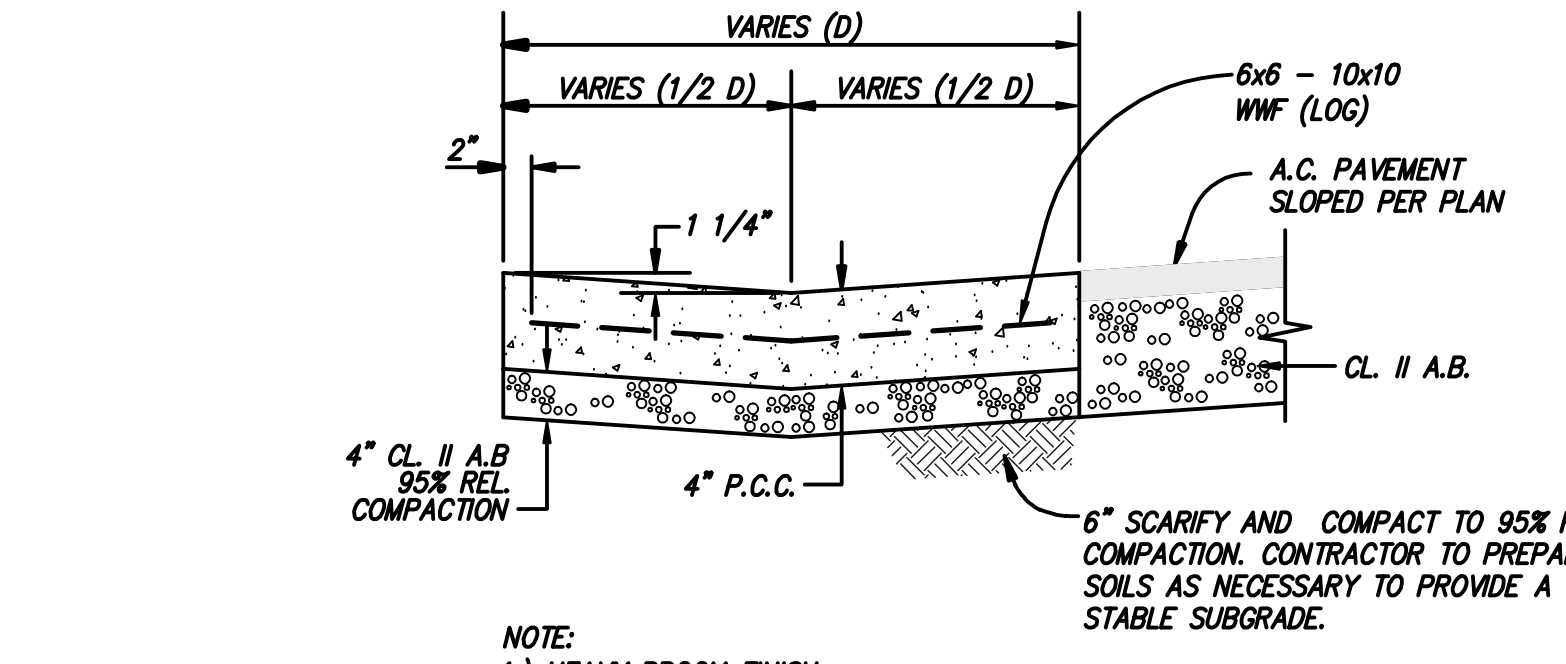
CONCRETE STRESS PAD  
N.T.S.



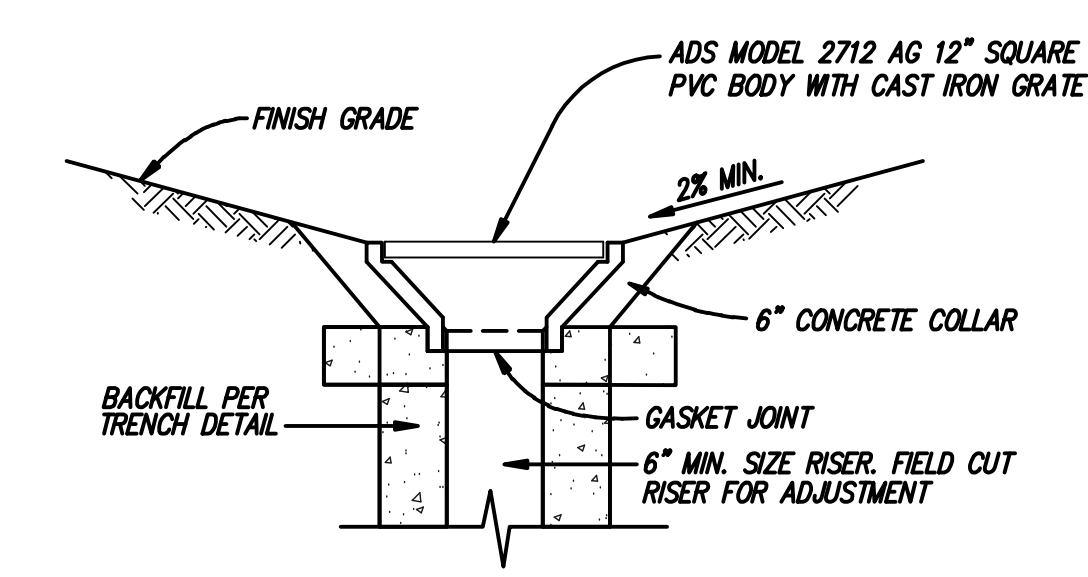
CONNECTION TO EX. SS LATERAL  
N.T.S.



CLEANOUT WITH LATERAL STUB  
N.T.S.



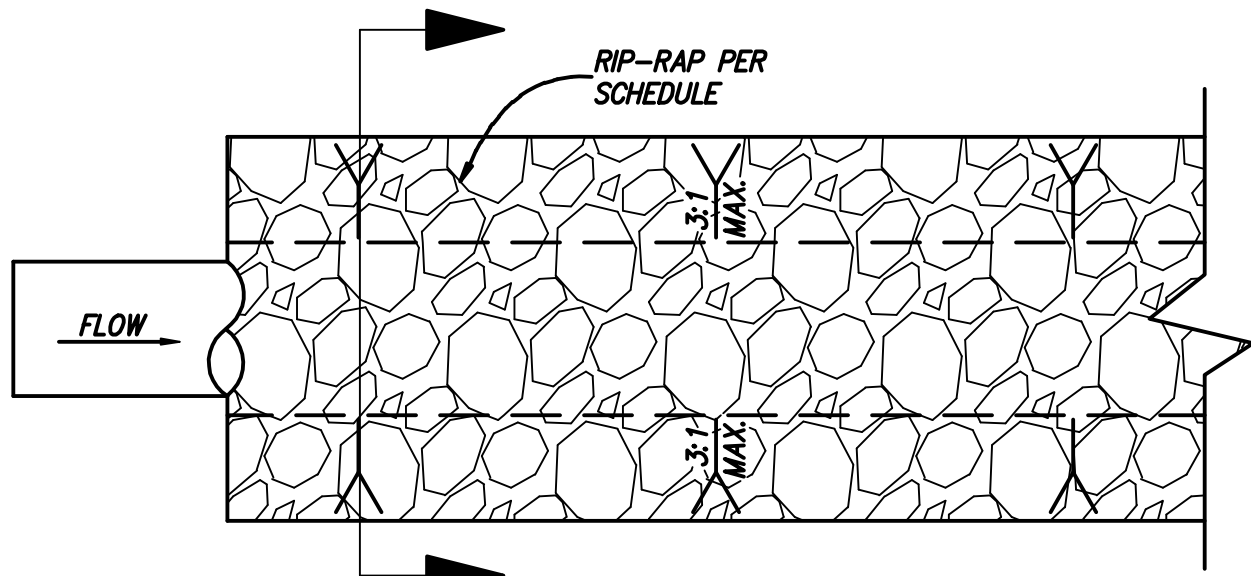
VALLEY GUTTER  
N.T.S.



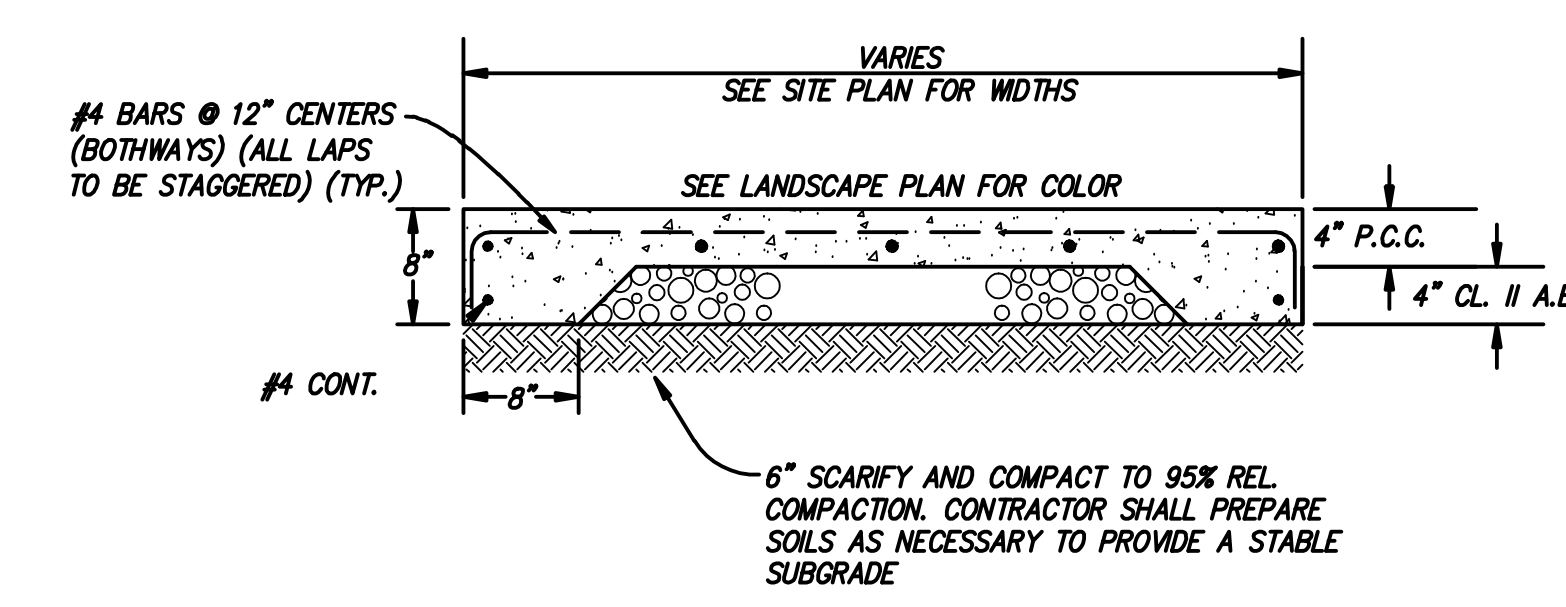
GRATE & RISER DETAIL

**COMPACTION REQUIREMENTS**

	TRENCH SAND	TRENCH GRAVEL	APPROVED NATIVE	IMPORTED FILL	CLASS II AGGREGATE BASE
SUBSEQUENT BACKFILL MATERIAL (UNDER PAVEMENT)	N/A	N/A	90%	90%	90%
SUBSEQUENT BACKFILL MATERIAL (IN LANDSCAPE)	N/A	N/A	85%	85%	90%
INITIAL BACKFILL MATERIAL	90%	90%	N/A	N/A	N/A
BEDDING MATERIAL	90%	90%	N/A	N/A	N/A

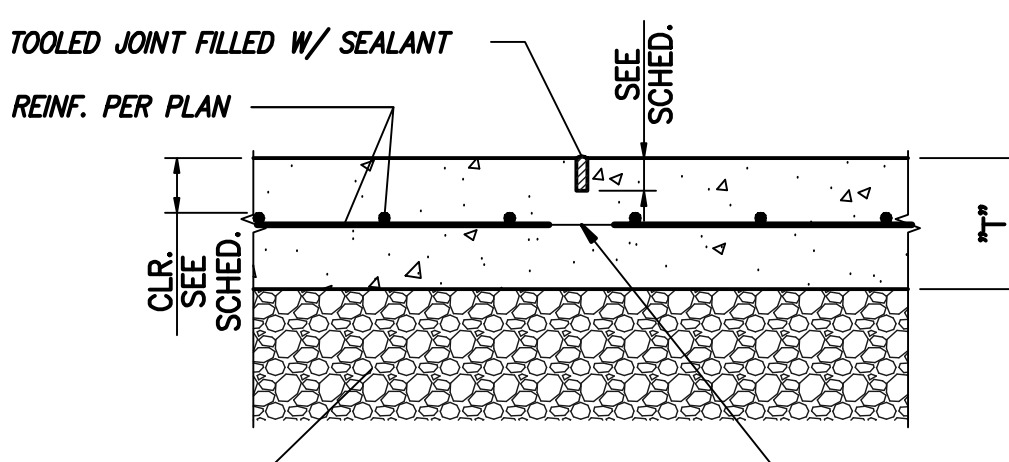


RIP-RAP DETAIL  
N.T.S.

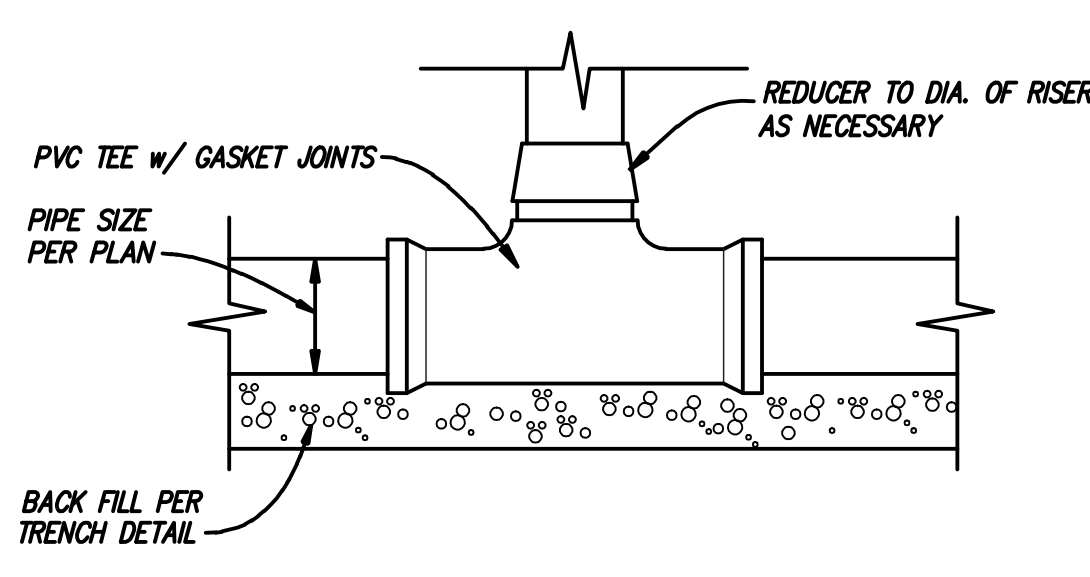


CONCRETE SIDEWALK  
N.T.S.

SLAB THICKNESS, "T" (IN.)	JOINT DEPTH (IN.)	CLEARANCE TO TOP OF REINF. (IN.)	MAX. JOINT SPACING (FT.)
4"	1"	1/2"	6'
5"	1 1/4"	2"	6'
6"	1 1/2"	2 1/2"	6'

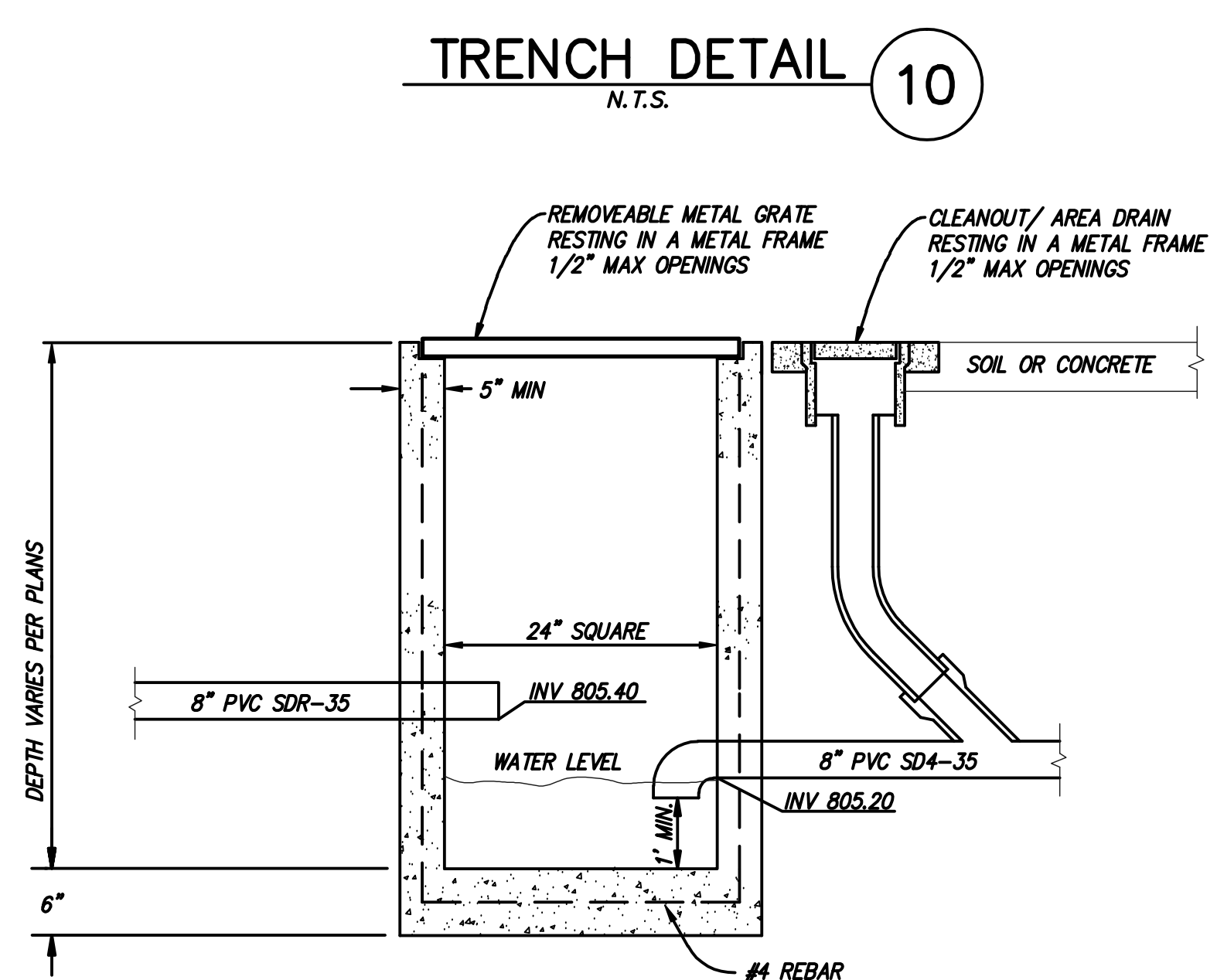


TYPICAL SLAB ON GRADE CONTROL JOINT  
N.T.S.



TEE & RISER DETAIL

AREA DRAIN  
N.T.S.



24" X 24" CATCH BASIN CITY SAND TRAP DETAIL  
N.T.S.

**NOTE: RIP-RAP SIZING TO BE DETERMINED BY ENGINEER**

"450" DIA.	"X" DEPTH	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (IN.)
6"	1.0'	70-100	12
		50-70	9
		35-50	6
9"	1.5'	70-100	15
		50-70	12
		35-50	9
12"	2.0'	70-100	21
		50-70	18
		35-50	12
		2-10	4

RIP-RAP DETAIL  
N.T.S.

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**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
1 LA AVANZADA ST  
SAN FRANCISCO CALIFORNIA

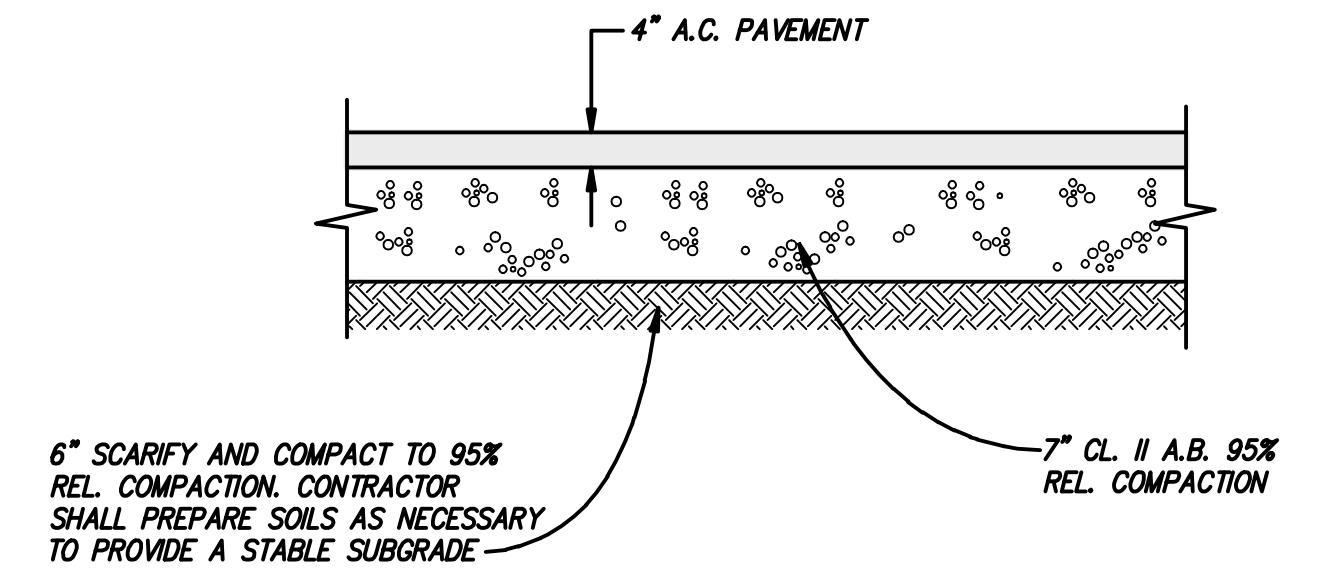
**CONSTRUCTION DETAILS**

Drawing Title

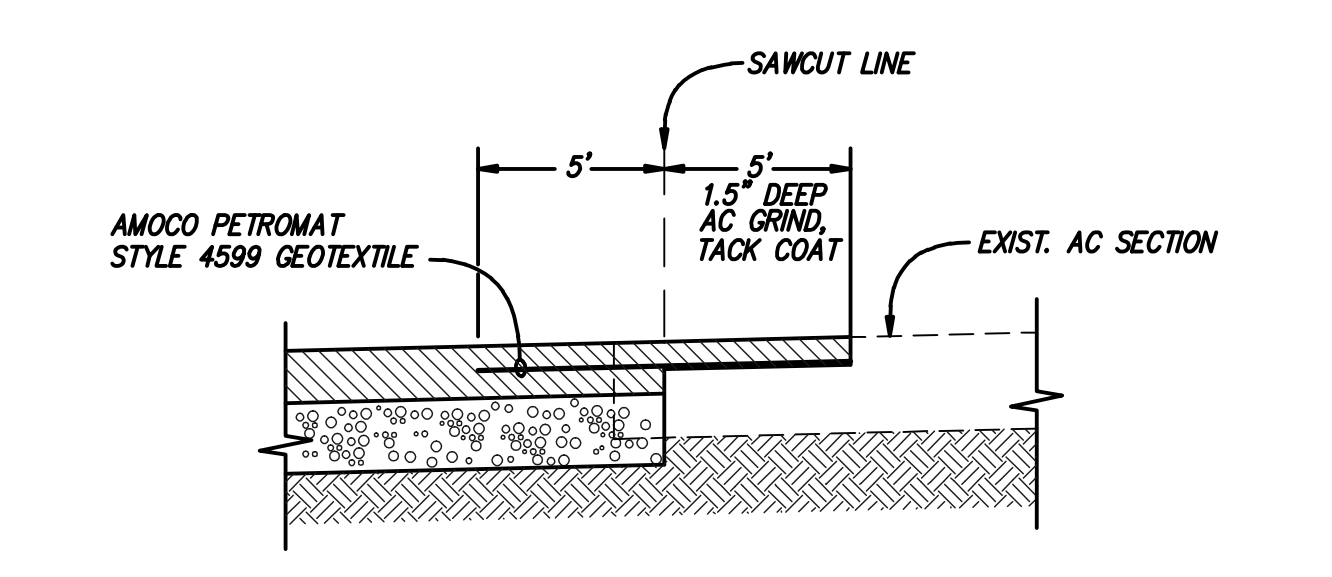
Commission	Checked	Date
212121	JP	02/15/13

Drawn	Approved	Scale
LW	AT	NO SCALE

Drawing No. **C-6.0**



**ASPHALT PAVEMENT SECTION 1**  
N.T.S.



**AC PAVEMENT GRIND CONFORM 2**  
N.T.S.

### SLOPE INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/staples approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/staples spaced approximately 12"(30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will trench with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/staples in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs applied down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire RECPs width.

**NOTE:**  
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

**Disclaimer:**  
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

**Tensor. NORTH AMERICAN GREEN\***  
5401 St. Wendel - Cynthiana Rd. P.O. Box 723-2040  
Poseyville, IN 47633 www.nasgreen.com

**Drawn on: 3-18-11**

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### STAPLE PATTERN GUIDE

**NOTES:**  
\* Use ECMSDS® for more accurate staple pattern selection.

**Tensor. NORTH AMERICAN GREEN\***  
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**NOTE:**  
Adjust staple layout as necessary based on existing tree stumps. Install staples around stumps in an array to match guidelines above and continue typical guideline pattern beyond.

**Drawn on: 3-18-11**

**NOTE: SEE LANDSCAPE PLANS FOR HYDROSEED RECOMMENDATION**

No.	Date	ISSUED FOR REVIEW	Description	By
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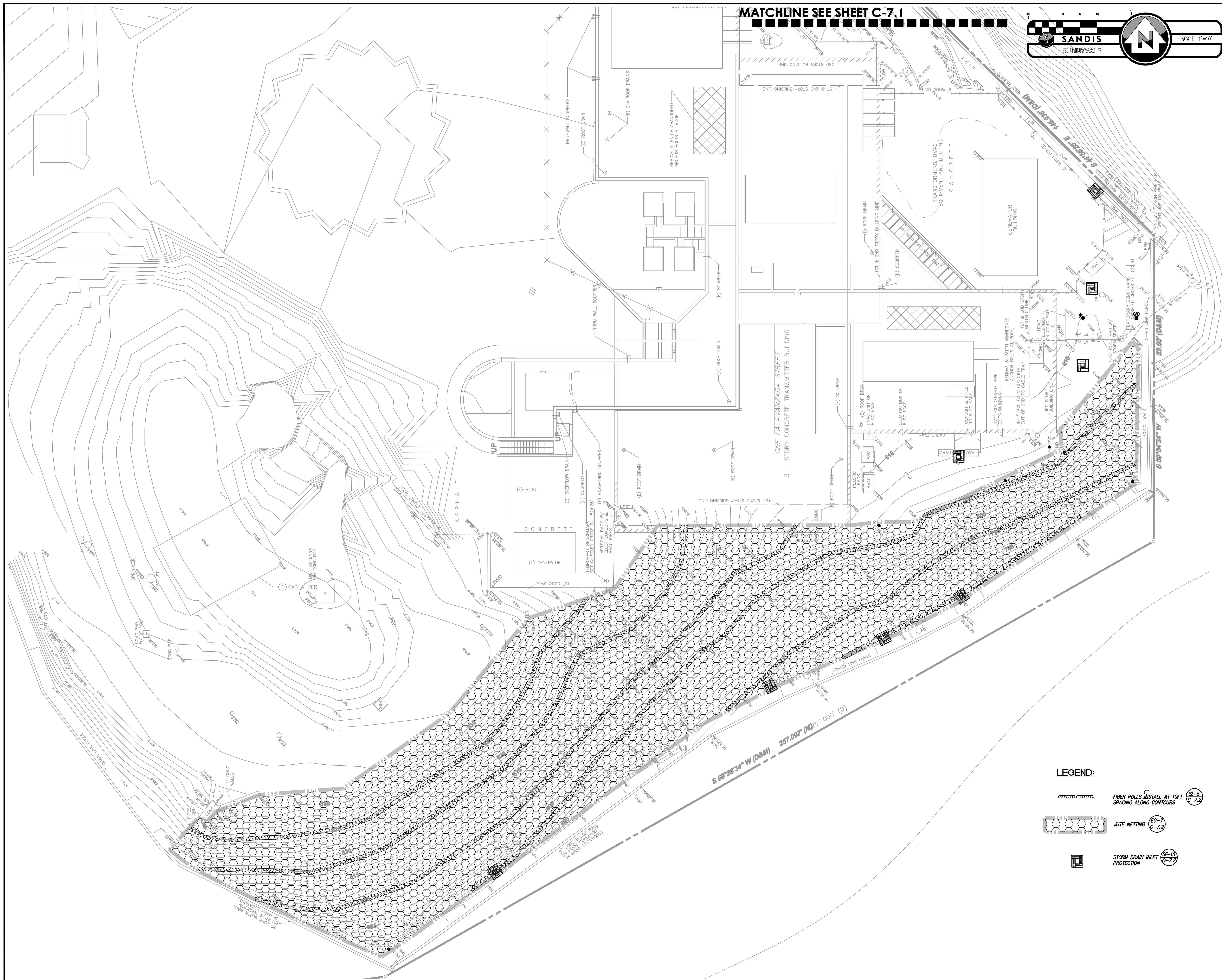
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

Project

**CONSTRUCTION DETAILS**

Drawing Title

Commission	Checked	Date
212121	JP	02/15/13
Drawn	Approved	Scale
LW	AT	NO SCALE
Drawing No.		
<b>C-6.1</b>		
Sed		



MATCHLINE SEE SHEET C-7.1

**SANDIS**  
SUNNYVALE

SCALE: 1"=10'

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1 LA AVANZADA ST  
SAN FRANCISCO  
CALIFORNIA

Project

**SITE TEMPORARY EROSION CONTROL PLAN**

Drawing Title

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=10'

Drawing No.  
**C-7.0**

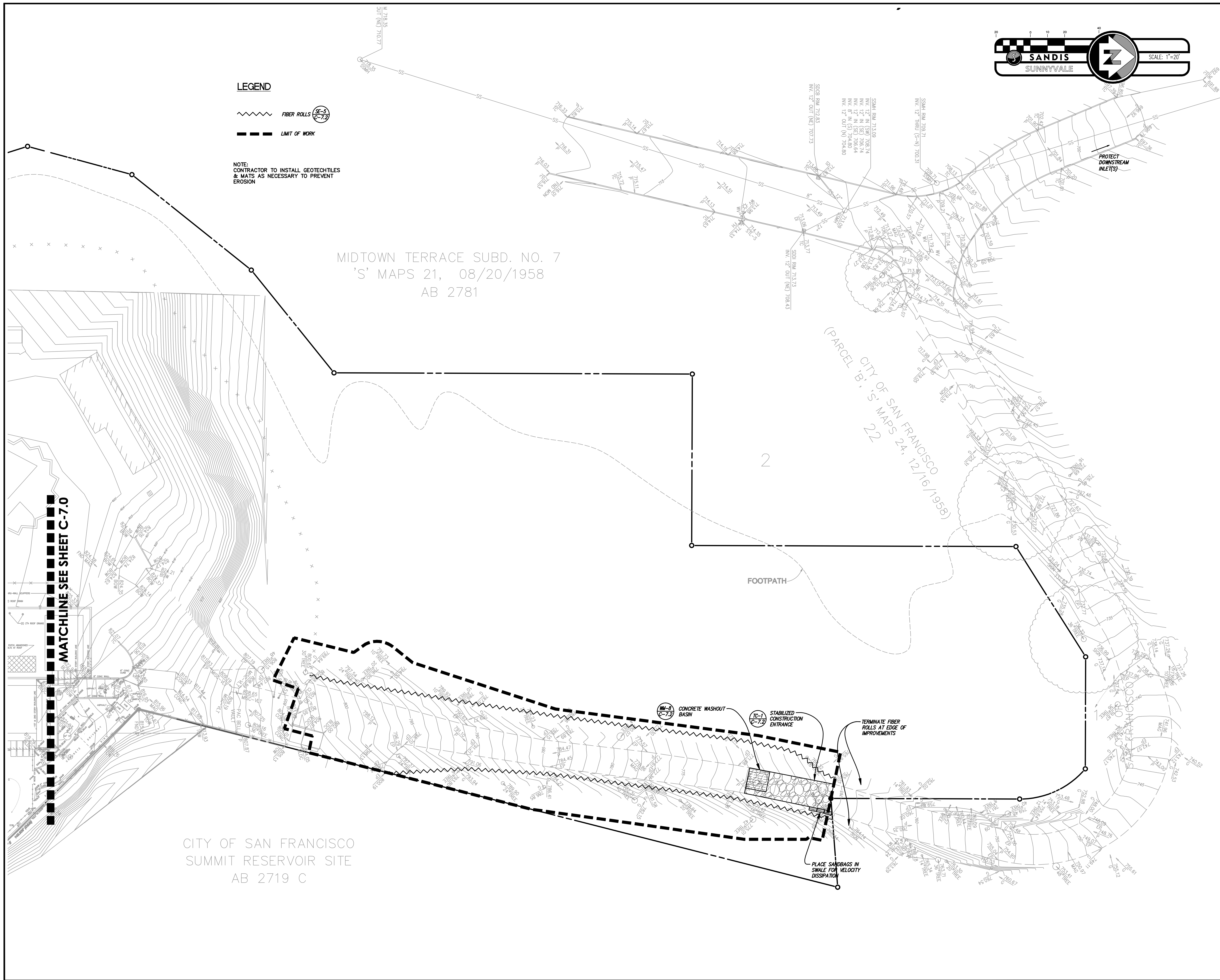
Seal

**LEGEND:**

----- FIBER ROLLS INSTALL AT 10FT SPACING ALONG CONTOURS (SE-5 C-7.2)

----- JUTE NETTING (EC-7 C-7.2)

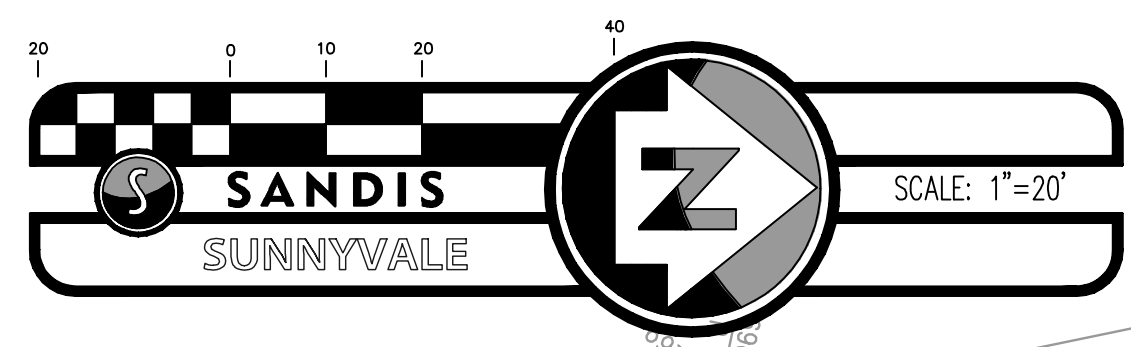
□ STORM DRAIN INLET PROTECTION (SE-10 C-7.2)



**LEGEND**

FIBER ROLLS (C-7.2)  
 LIMIT OF WORK

NOTE:  
CONTRACTOR TO INSTALL GEOTECHILES  
& MATS AS NECESSARY TO PREVENT  
EROSION



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SAN FRANCISCO  
CALIFORNIA

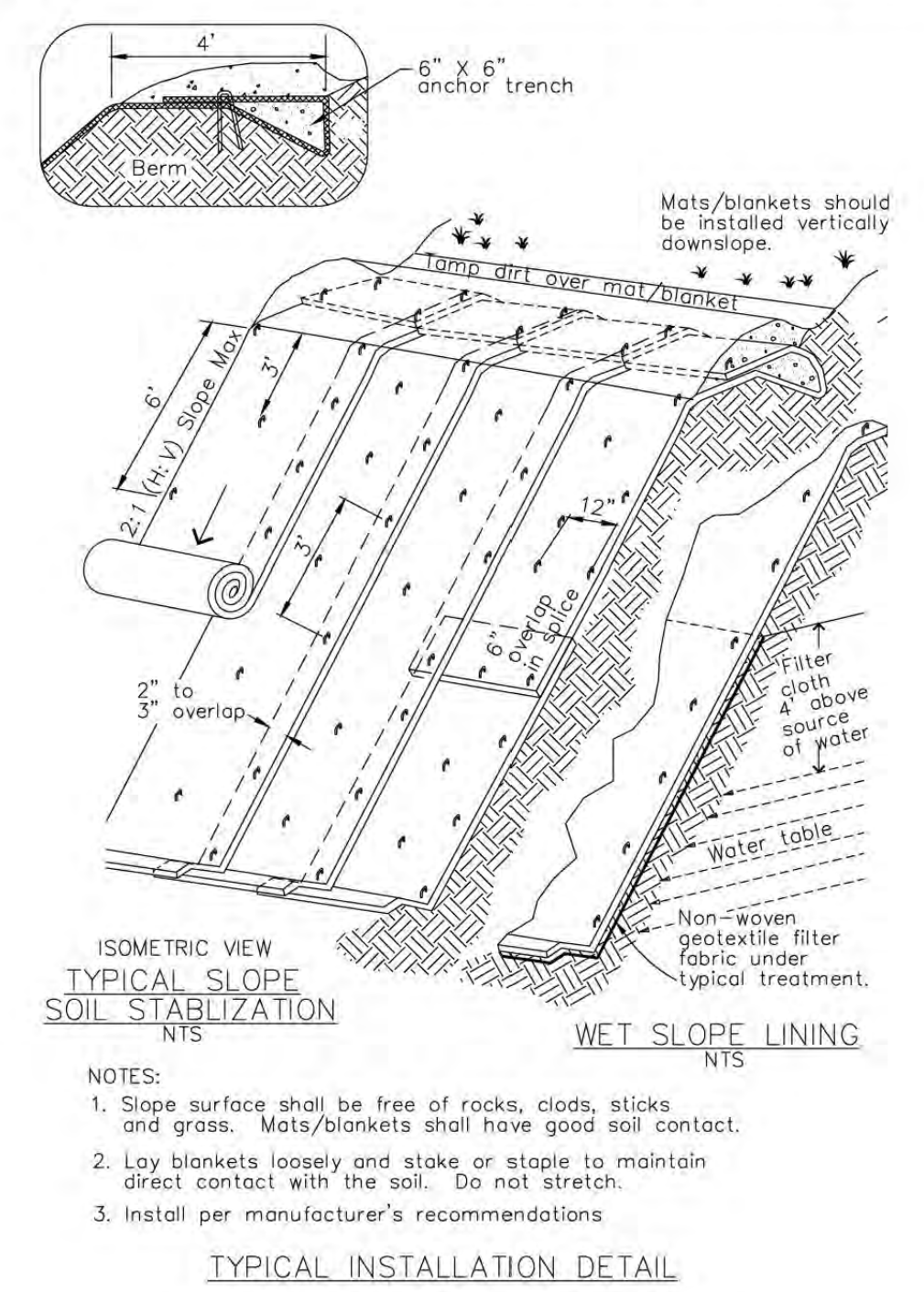
Project

**ROADWAY TEMPORARY EROSION CONTROL PLAN**

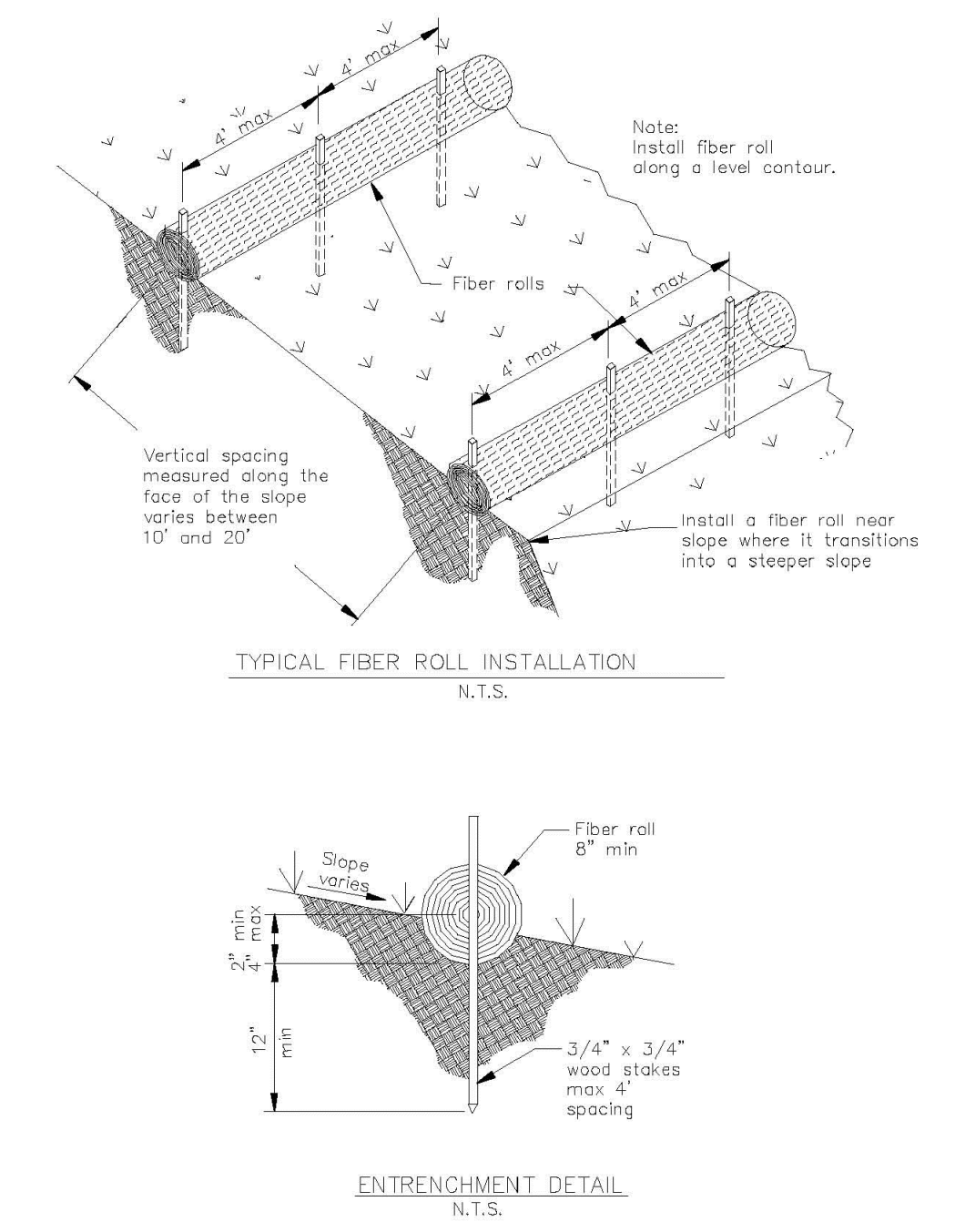
Drawing Title

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=20'
Drawing No.		<b>C-7.1</b>

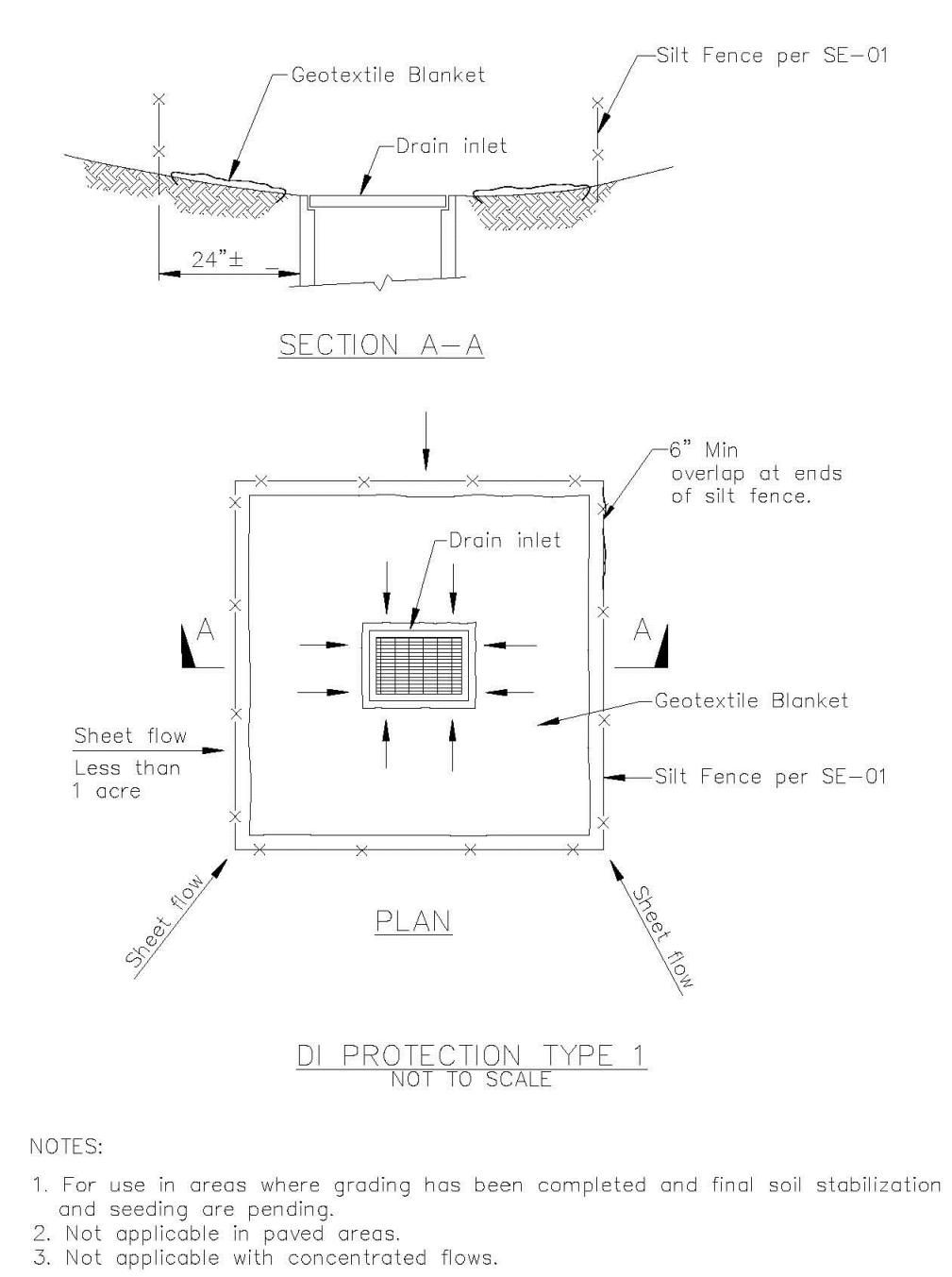
**EC-7 Geotextiles and Mats**



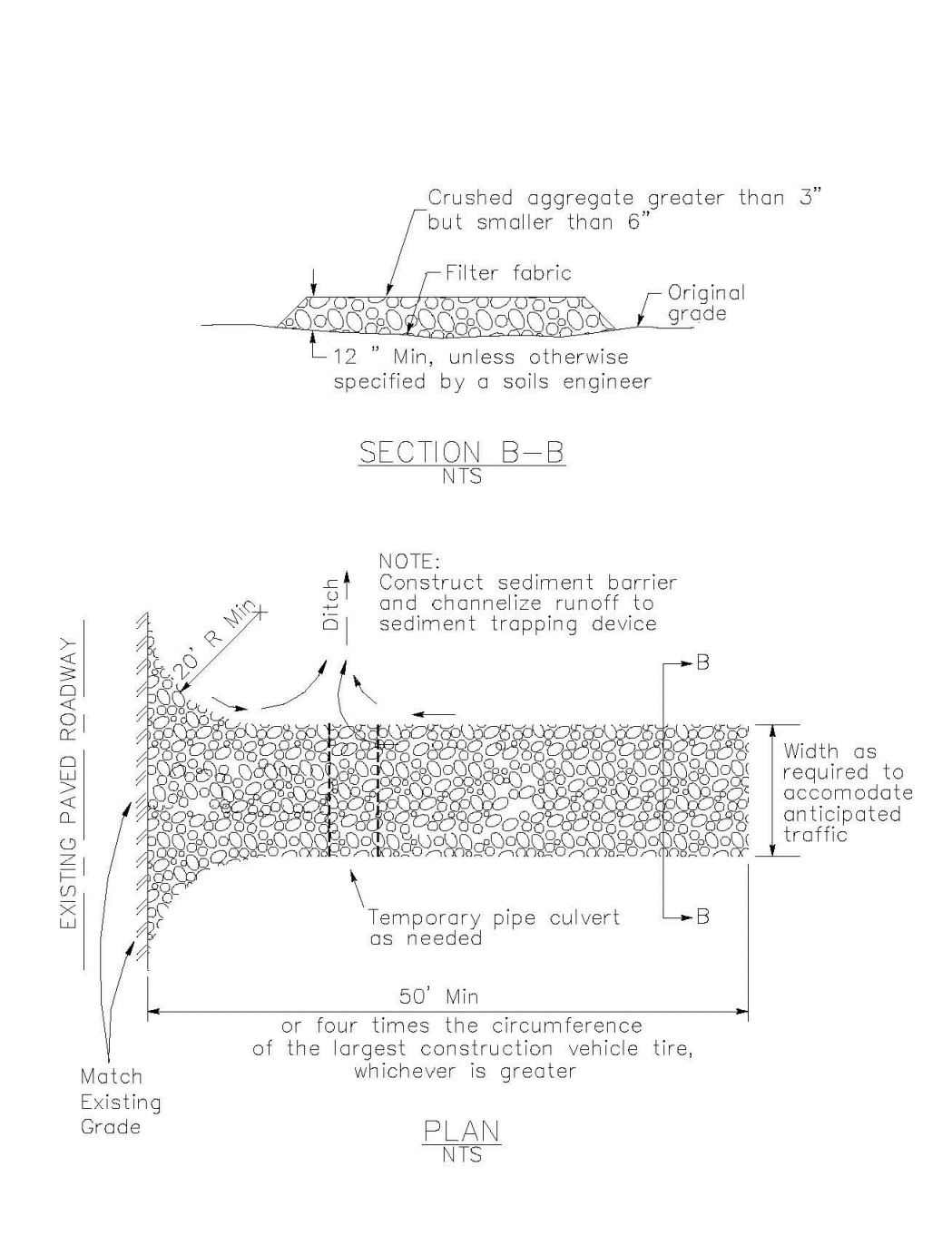
**SE-5 Fiber Rolls**



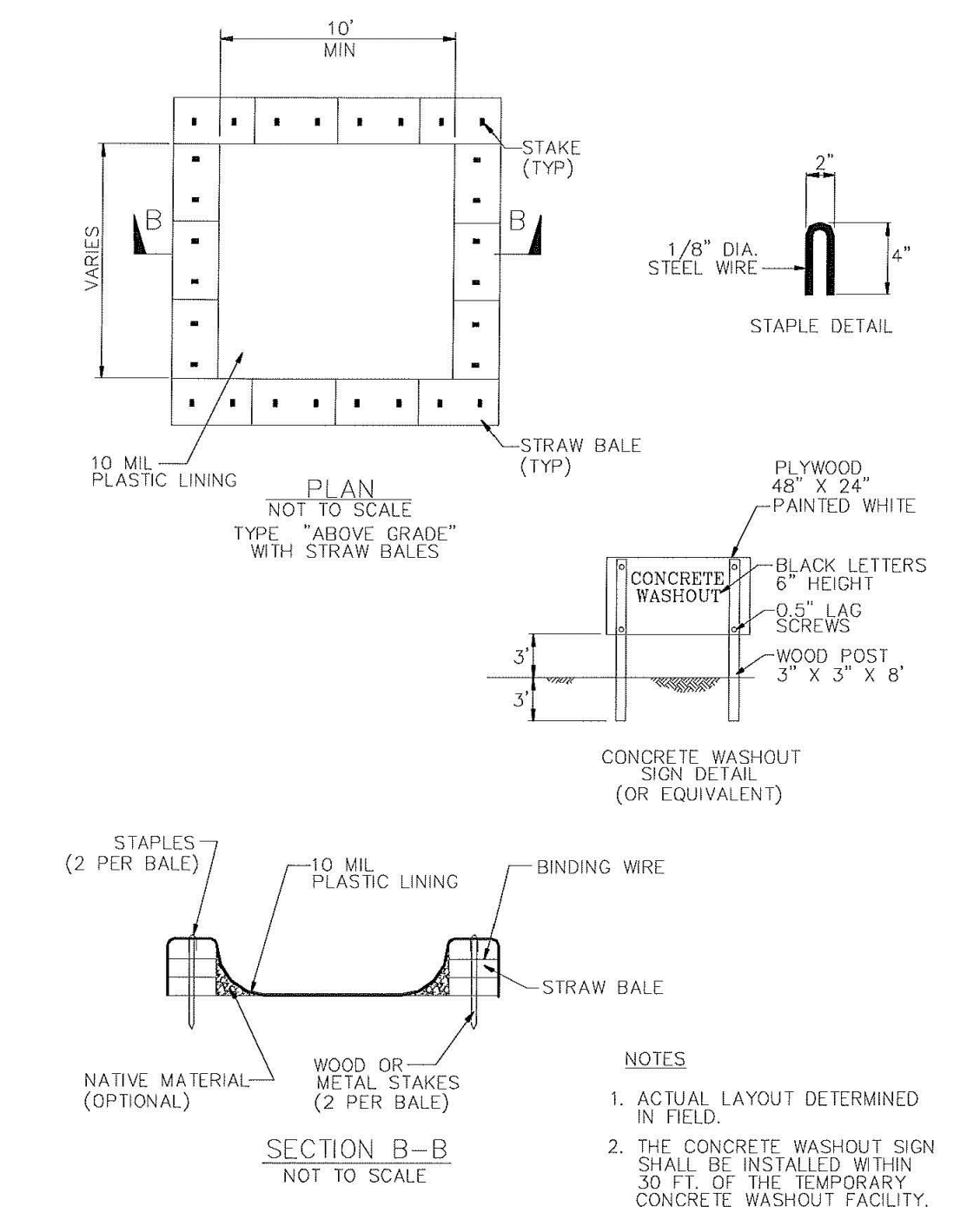
**SE-10 Storm Drain Inlet Protection**



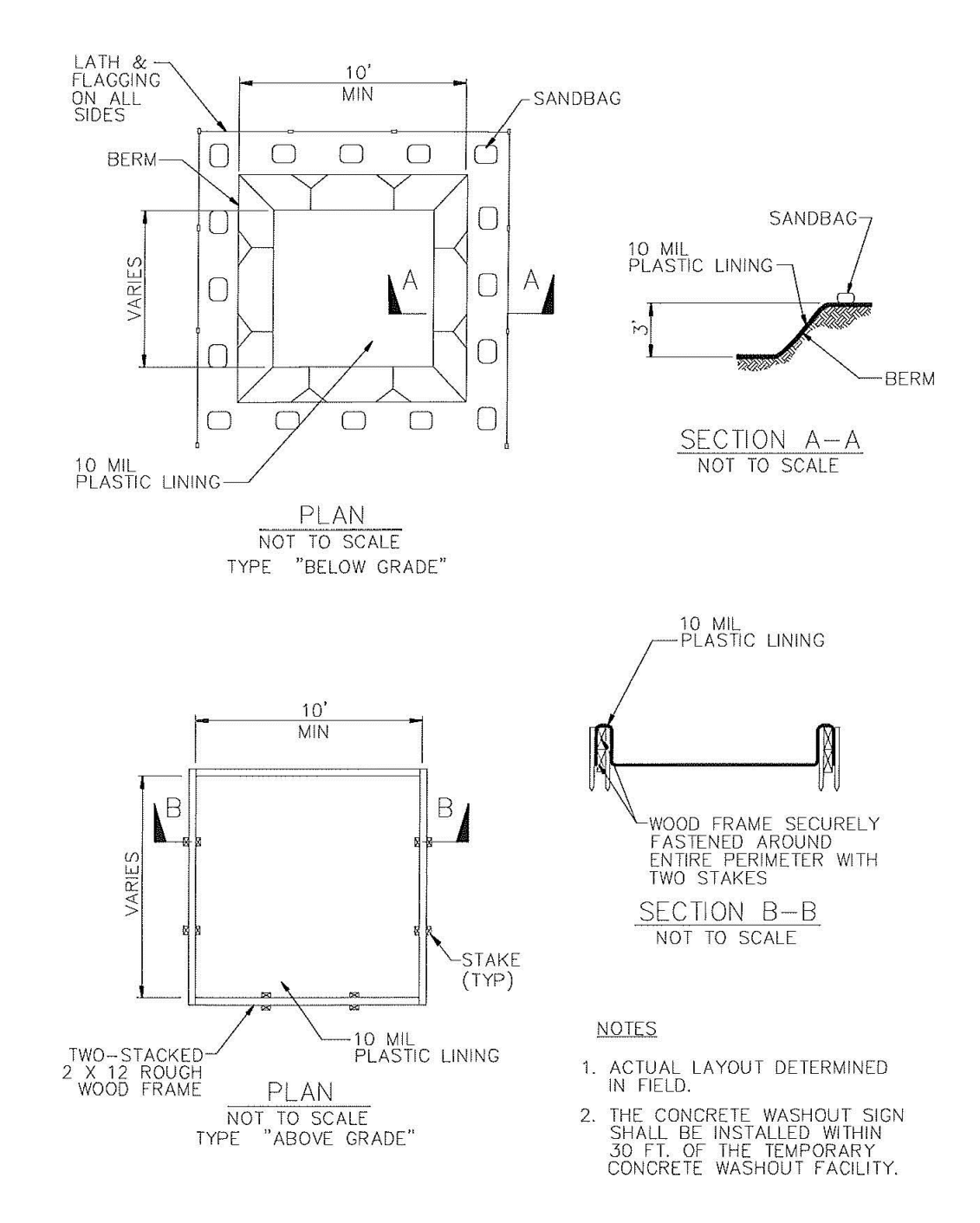
**Stabilized Construction Entrance/Exit TC-1**



**Concrete Waste Management WM-8**



**Concrete Waste Management WM-8**



No.	Date	ISSUED FOR REVIEW	Description	By
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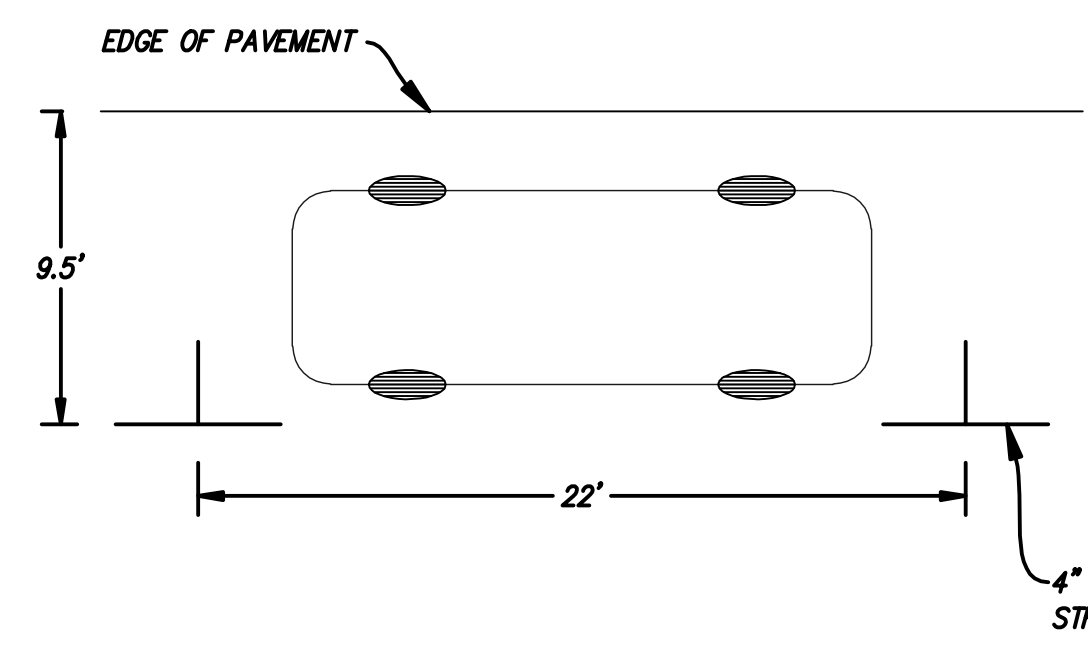
**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

Project

**EROSION CONTROL DETAILS**

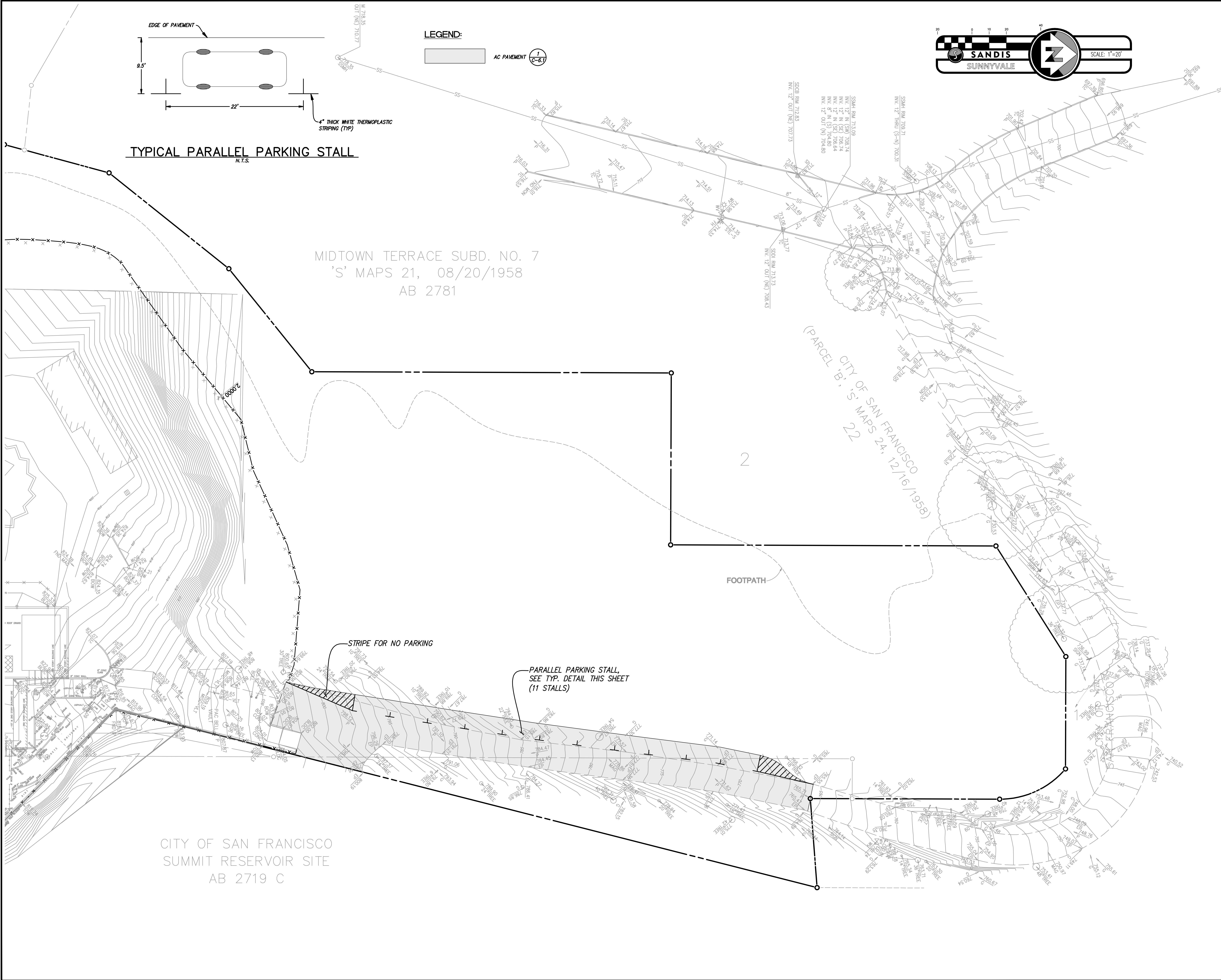
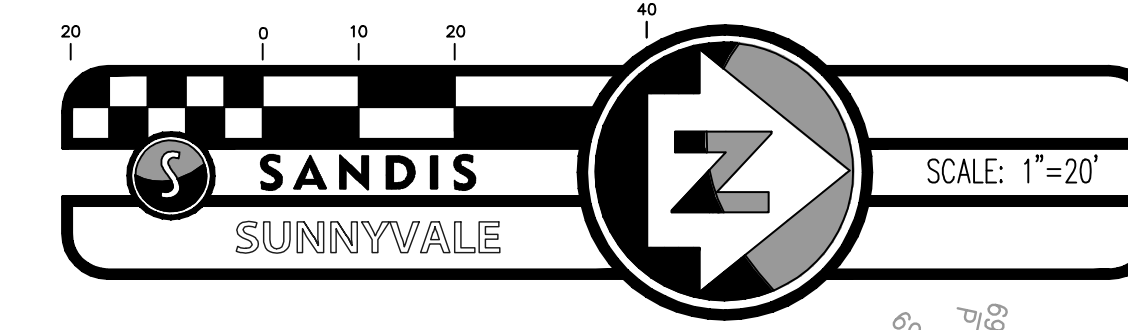
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Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale NO SCALE
Drawing No.		
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**TYPICAL PARALLEL PARKING STALL**  
N.T.S.

**LEGEND:**  
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DATE: FEBRUARY 15, 2013  
KENNETH N. OLCOTT  
R.C.E. No. 51079, EXPIRES 9-30-13

No.	Date	ISSUED FOR REVIEW Description	By

**SITE & EROSION CONTROL IMPROVEMENTS FOR SUTRO TOWER**  
**1 LA AVANZADA ST SAN FRANCISCO CALIFORNIA**

**STRIPING PLAN**

Commission 212121	Checked JP	Date 02/15/13
Drawn LW	Approved AT	Scale 1"=20'
Drawing No.		<b>C-8.0</b>