

GENERAL LANDSCAPE NOTES

1. ENTERING INTO THIS CONTRACT WITH THE CITY INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, IS FAMILIAR WITH THE EXISTING CONDITIONS AND REVIEWED SAME WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY, AND FOR CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CITY REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.
4. THE CONTRACTOR SHALL VERIFY EXISTING FACILITIES IN THE FIELD.
5. SAWCUT SIDEWALK TO THE NEAREST SCORELINE UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL MARKS, STAINS AND BLEMISHES RESULTING FROM CONSTRUCTION OPERATIONS THROUGHOUT THE CONTRACT.
7. THE CONTRACTOR TO VERIFY THE LIMITS OF SUB-SIDEWALK BASEMENTS AND SHALL CHECK AND VERIFY THAT ALL SAWCUTTING AND EXCAVATION WORK WILL NOT IMPACT EXISTING BASEMENTS. THIS IS CONSIDERED INCIDENTAL WORK.
8. THESE NOTES AND LEGEND REFER TO THE LANDSCAPE GREEN INFRASTRUCTURE DRAWINGS.
9. FOR ADDITIONAL NOTES AND LEGEND REFER TO ROADWAY AND LANDSCAPE DRAWINGS.
10. THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND SITE CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
11. THE LIMIT OF WORK (L.O.W.) OCCURS AT FACE OF BUILDINGS, AT PROPERTY LINES, AT EXISTING FENCES, AND AS SHOWN ON PLANS. THIS LINE, AS DESCRIBED ABOVE, IS DIAGRAMMATIC AND IS INTENDED TO DELINEATE LANDSCAPE WORK. FOR ADDITIONAL INFORMATION REGARDING L.O.W. FOR THIS CONTRACT WORK SEE ROADWAY DOCUMENTS.
12. ANY REFERENCE IN THE DOCUMENT TO "AS DIRECTED" OR "DIRECTIONS" REFER TO DIRECTIONS GIVEN BY THE CITY REPRESENTATIVE.
13. ALL WORK TO BE PERFORMED SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
14. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES, IMPROVEMENTS AND STRUCTURES WHETHER SHOWN ON THE DRAWINGS OR NOT AND RESTORE TO NEW CONDITION AS PROVIDED IN THE SPECS.
15. THE CONTRACTOR SHALL MAINTAIN ALL GRADES, LINES, LEVELS, AT LOCATIONS AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
16. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND SHALL REPORT CONFLICTS OR INCONGRUITIES BETWEEN NEW IMPROVEMENTS AND/OR EXISTING FACILITIES TO THE CITY REPRESENTATIVE IMMEDIATELY.
17. CITY OWNED TRASH RECEPTACLE CANS TO BE RELOCATED AS INCIDENTAL WORK.
18. CONTRACTOR SHALL OBTAIN WRITTEN CLEARANCE/EXCAVATION PERMIT(S) FROM THE CITY OF SAN FRANCISCO 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION.
19. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT 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 UTILITIES. HOWEVER, THE CITY REPRESENTATIVE ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
20. THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE CONSTRUCTION OF THE NEW IMPROVEMENTS CONNECTING TO OR IN THE VICINITY OF SAME.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RELOCATION (WHERE NECESSARY) OF ALL EXISTING MONUMENTS, OTHER SURVEY MARKERS, STREET SIGNS, AND ANY OTHER IMPORTANT OBJECTS ON THE JOB SITE.
22. CONTRACTOR TO LAYOUT ALL UTILITIES AND ASSOCIATED STRUCTURES PRIOR TO COMMENCING EXCAVATION AND NOTIFY THE CITY REPRESENTATIVE OF ANY CONFLICTS.
23. CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED EXCAVATION OR IMPROVEMENTS TO THE CITY REPRESENTATIVE IN WRITING.
24. CONTRACTOR TO BE SOLELY RESPONSIBLE TO PROTECT EXISTING BUILDINGS, VEGETATION TO REMAIN, UTILITIES, AND SURFACE FEATURES FROM DAMAGE. ANY DAMAGE INCURRED WILL BE REPAIRED BY THE CONTRACTOR. CONTRACTOR TO SUBMIT WRITTEN REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A) 21 DAYS PRIOR TO INTENDED CONSTRUCTION START DATE.
25. DIMENSIONS GIVEN ARE APPROXIMATE AND MAY REQUIRE ADJUSTMENT TO ACCOMMODATE ACTUAL FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR PERFORMING WORK NECESSARY TO COMPLETE SHOWN IMPROVEMENTS.
26. EXCEPT FOR ITEMS INDICATED TO REMAIN, CONTRACTOR SHALL REMOVE FROM PROJECT SITE AND DISPOSE (IN AUTHORIZED DISPOSAL SITES) ALL DEMOLITION MATERIALS WITHIN THE LIMIT OF WORK AS SHOWN. REMOVAL ITEMS WILL INCLUDE (BUT NOT LIMITED TO) PAVING, CURBS, SOIL, PIPING, ETC.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL SURFACE AND SUBSURFACE UTILITIES (INCLUDING ANY OTHER POSSIBLE UNFORESEEN UTILITIES THAT MAY NOT BE SHOWN ON THE DRAWINGS) AND SANITARY SEWERS WITHIN THE PROJECT AREA DURING CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE IF ANY VARIATIONS ARE FOUND. LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR SOLE EXPENSE.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FUNCTION OF EXISTING UTILITIES AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.

BIORETENTION STRUCTURES NOTES

1. GREEN INFRASTRUCTURE STORMWATER TREATMENT DEVICES IN THESE PLANS ARE REFERRED TO IN GENERAL AS "BEST MANAGEMENT PRACTICES" (BMP's).
2. A BIORETENTION UNIT IS A LANDSCAPED STORMWATER COLLECTION DEVICE THAT, IN THIS CASE, CAN CONTAIN AN UNDERDRAIN AND USES AN ENGINEERED SOIL MIX FOR THE PLANTING BED.
3. FOR BIORETENTION UNITS TO FUNCTION PROPERLY, THE PLANTING BED MUST NOT BE COMPACTED DURING CONSTRUCTION, AND SEDIMENT MUST BE PREVENTED FROM ENTERING THE BMP DURING AND AFTER CONSTRUCTION.
4. CONSTRUCTION ACTIVITIES SHALL NOT COMPACT SOILS WITHIN THE FOOTPRINT OF THE BIORETENTION UNIT. HEAVY EQUIPMENT SHALL BE KEPT OUT OF THE BMP FOR ALL EXCAVATION AND GRADING ACTIVITIES.
5. SEDIMENT AND EROSION CONTROLS MUST BE IN-PLACE UPHILL AND UPSTREAM OF THE BMPs AT ALL TIMES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING THE BMPs DURING CONSTRUCTION OR AFTER PLANTING. CONSTRUCTION OF FEATURES UPHILL OF THE BMPs SHALL BE COMPLETED BEFORE CONSTRUCTING THE BMP PLANTING BEDS.
6. WATTLES, SILT FENCES, SILT DIKES, OR EQ, SHALL BE INSTALLED UPHILL OF BMPs WHERE SOIL IS TO BE DISTURBED AND MAY CAUSE RUNOFF TO AND SEDIMENTATION OF BMPs.
7. INLETS TO BMPs SHALL BE BLOCKED OFF WITH SAND BAGS DURING CONSTRUCTION TO KEEP STORMWATER AND SEDIMENT FROM ENTERING THE BIORETENTION CELL. SAND BAGS SHALL BE LEFT IN PLACE AFTER CONSTRUCTION AT THE DIRECTION OF THE CITY REPRESENTATIVE TO PROTECT THE BIORETENTION UNIT DURING THE INITIAL PLANT ESTABLISHMENT PERIOD.
8. BIORETENTION UNITS SHALL BE EXCAVATED AND CONSTRUCTED WITH AN EXCAVATOR OPERATING OUTSIDE THE UNIT FOOTPRINT. NO EQUIPMENT MAY ENTER THE BMP TO EXCAVATE THEM WITHOUT PRIOR APPROVAL FROM THE CITY REPRESENTATIVE. IN THE RARE EVENT THAT EQUIPMENT IS ALLOWED TO ENTER BIORETENTION UNITS BY THE CITY REPRESENTATIVE, EQUIPMENT SHALL CONSIST OF LOW-IMPACT, LIGHTWEIGHT EQUIPMENT, AND THE BED OF THE BIORETENTION UNIT SHALL BE RESTORED BY RIPPING TO A MINIMUM DEPTH OF 12 INCHES.
9. ALL CONCRETE AND PAVEMENT WORK INCLUDING, BUT NOT LIMITED TO, CURB CUTS, INLET CONSTRUCTION, CURB REPLACEMENT, PERMEABLE PAVEMENT, OR PAVEMENT OR SIDEWALK REPAIR SHALL BE DONE BEFORE BIORETENTION UNIT GRADING AND PLANTING BED PREPARATION.
10. ALL ROCK, GRAVEL, CONCRETE WASTE, LUMBER, OR OTHER CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE BMP PRIOR TO BIORETENTION BED GRADING AND PREPARATION.
11. IF BIORETENTION SOILS ARE DISTURBED OR COMPACTED BY CONCRETE WORK, THE BED OF THE BIORETENTION UNIT SHALL BE RESTORED BY RIPPING.
12. TYPICAL BIORETENTION UNIT STORMWATER COLLECTION DEPTH WILL BE 6 INCHES. THE ENGINEERED SOIL USED FOR THE PLANTING BED WILL BE APPROXIMATELY 18 INCHES DEEP AND THE BIORETENTION GRAVEL STORAGE LAYER WILL BE 9 INCHES DEEP.
13. EXCAVATE THE BIORETENTION UNIT TO BOTTOM OF THE BIORETENTION BASIN DEPTH AND PERFORM DOUBLE-RING INFILTRMETER (DRI) TEST (WHERE SHOWN) ON NATIVE SOILS.
14. LIGHTLY SCARIFY WITH HAND TOOLS TOP 6 INCHES OF NATIVE SUBGRADE BEFORE THE PLACEMENT OF AGGREGATE.
15. CREATE SIDE SLOPES WITH ENGINEERED BIORETENTION SOIL MIX. LIGHTLY TAMP SOIL IN PLACE WITH FOOT TRAFFIC AND RAKE TO GRADE.
16. PERFORM DOUBLE-RING INFILTRMETER (DRI) TEST TO CONFIRM INFILTRATION RATE FOR BIORETENTION BEDDING UNIT. AFTER SOIL MIX INSTALLATION AND GRADING. SEE SPEC. 02923.
17. IF SOILS ARE COMPACTED DURING CONSTRUCTION OF BIORETENTION UNIT, SOIL MUST BE RESTORED BY RIPPING TO A MINIMUM DEPTH OF 12 INCHES.
18. PERFORM DOUBLE-RING INFILTRMETER TEST TO CONFIRM INFILTRATION RATE (PER ASTM D3385) IN SUBSURFACE NATIVE SOIL FOLLOWING DEMOLITION AND EXCAVATION. IF STEADY STATE INFILTRATION RATE IS LESS THAN 1 INCH PER HOUR, CONSTRUCT ALLOWANCE ITEM. REFER TO SPECIFICATIONS FOR COMPLETE GUIDELINES ON CONSTRUCTIONS OF ALLOWANCE ITEMS.

GRADING & SOIL PREPARATION NOTES

1. SEE ROADWAY DRAWINGS FOR ROADWAY, AND SIDEWALK GRADING INFORMATION.
2. SEE SPECIFICATIONS FOR COMPLETE PLANTING PIT BACK FILL.
3. STORMWATER, DEBRIS OR SEDIMENT SHALL NOT BE ALLOWED TO ENTER THE BIORETENTION UNITS DURING CONSTRUCTION AND STAGING PERIODS. ALL INLETS TO THE BIORETENTION UNITS SHALL BE BLOCKED TO ELIMINATE INFLOW OF STORMWATER, DEBRIS AND SEDIMENT UNTIL APPROVED BY CITY.

LAYOUT NOTES

1. ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SURVEY INFORMATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CITY REPRESENTATIVE BEFORE PROCEEDING WITH WORK IN THE AREA AFFECTED.
3. WRITTEN DIMENSIONS SUPERSEDE SCALED DIMENSIONS.
4. ALL DIMENSIONS AT CURB ARE FROM THE FACE OF CURB, UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS SHOWN ARE TO BE TAKEN HORIZONTALLY.
6. FOR ADDITIONAL INFORMATION REGARDING LANE STRIPING AND CROSSWALKS, SEE ROADWAY DRAWINGS.
7. THE CONTRACTOR SHALL CONFIRM LOCATION OF SUB-SURFACE UTILITIES AND INFRASTRUCTURE.
8. THE CONTRACTOR SHALL ALIGN ALL NEW AND EXISTING UTILITY BOXES AND VAULTS WITH CONCRETE SCORING PATTERN.

ABBREVIATIONS

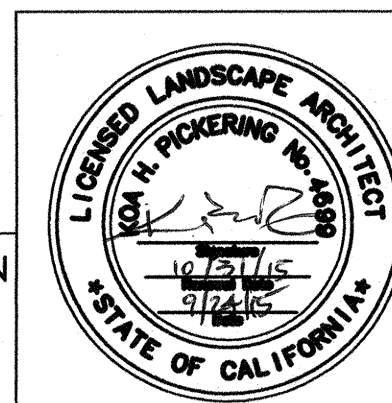
AC	ASPHALTIC CONCRETE
APPROX.	APPROXIMATE
B.C.	BOTTOM OF CURB
BLDG.	BUILDING
B.M.P.	BEST MANAGEMENT PRACTICE
B.O.	BY OTHERS
B.O.C.	BACK OF CURB
B.S.	BOTTOM OF STEP
B.O.W.	BACK OF WALL
CCSF	CITY & COUNTY OF SAN FRANCISCO
CL	CENTER LINE
CONC.	CONCRETE
COND.	CONDITION
CONT.	CONTINUOUS
C.J.	CONTROL JOINT
CP	CENTER POINT
DIA.	DIAMETER
D.R.I.	DOUBLE RING INFILTRMETER
DWG	DRAWING
(E)	EXISTING
EA	EACH
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
EQ	EQUAL
EXP	EXPANSION
F.G.	FINISH GRADE
F.L.	FLOW LINE
F.O.B	FACE OF BUILDING
F.O.C.	FACE OF CURB
F.T.	FEET
GALV.	GALVANIZED
H.P.	HIGHEST POINT
IN.	INCHES
JOINT	JOINT
K.J.	KEYED CONSTRUCTION JOINT
L.G.I.	LANDSCAPE GREEN INFRASTRUCTURE
L.O.W	LIMIT OF WORK
MAX.	MAXIMUM
MFR.	MANUFACTURER
MANUF.	MANUFACTURED
(N)	NEW
(N)	NOT IN CONTRACT NUMBER
N.I.C.	NOT TO SCALE
NO.	ON CENTER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.A.	PLANTING AREA
R.	RADIUS
RDWY	ROADWAY
REF.	REFERENCE
REQ'D	REQUIRED
S.A.	SPLASH APRON
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
S.J.	SCORE JOINT
S.M.P.	STORMWATER MANAGEMENT PLAN
S.E.D.	SEE ELECTRICAL DRAWINGS
S.R.D.	SEE ROADWAY DRAWINGS
S.W.D.	SEE SF WATER DEPT. DRAWINGS
SPECS.	SPECIFICATIONS
STA. PT.	STATION POINT
ST.	STREET
STD.	STANDARD
SS	STAINLESS STEEL
TPB	TELEPHONE PULL BOX
TR.	TRASH RECEPTACLE
TSW	TYPICAL
TW	TOP OF SIDEWALK
TYP.	TOP OF WALL
U.O.N.	UNLESS OTHERWISE NOTED
U.S.A.	UNDERGROUND SERVICE ALERT

EXISTING UTILITIES LEGEND

	GAS	PG&E GAS
	PG&E ABANDONED GAS	
	PG&E ELECTRICAL	
	AUXILIARY WATER SUPPLY SYSTEM	
	WATER MAIN	
	PAC BELL TELEPHONE CABLE LINE	
	RCN COMMUNICATION CABLE	
	MFS, VERIZON NETWORK CABLE	
	HH MUNI DUCT BANK	
	STREET LIGHTING/TRAFFIC SIGNAL CABLE	
	STONE OR CONC. SURVEY MONUMENT	
	EXISTING SEWER	
	NEW SEWER	
	INDICATES STANDARD CITY MONUMENT (OR AS NOTED)	
	BIKE RACK	
	BOLLARD/GUARD POST	
	SHRUB	
	CABLE MANHOLE	
	CABLE TV PULLBOX	
	CATCH BASIN	
	CONDUIT	
	DOWNSPOUT	
	DRAIN	
	ELECTRIC MANHOLE	
	ELECTRIC PULL BOX	
	ELECTROLIER	
	FENCE CORNER	
	FIRE ALARM PULLBOX	
	FIRE HYDRANT	
	FIRE VALVE	
	GAS ETS	
	GAS METER	
	GAS VALVE	
	GATEPOST	
	GUYPOLE	
	GUYWIRE	
	HETCH HETCHY MANHOLE	
	JUNCTION BOX	
	MAILBOX RELAY	
	MAILBOX	
	MANHOLE (NO I.D./UNKNOWN)	
	MONITORING WELL	
	MUNI GUYPOLE	
	MUNI GUYPOLE W/ LIGHT	
	PARKING METER	
	PG&E MANHOLE	
	PG&E PULLBOX	
	PIPE	
	POWER POLE	
	POWER POLE W/ LIGHT	
	PULLBOX	
	SEWER CLEAN-OUT	
	SEWER MANHOLE	
	SHRUB	
	SIGN POLE	
	STANDPIPE	
	SURVEY CONTROL PT. (SEE MONUMENT NOTE)	
	TELEPHONE PULL BOX	
	TELEPHONE MANHOLE	
	TRAFFIC SIGNAL	
	TRAFFIC SIGNAL PULLBOX	
	TREE	
	UNKNOWN UTILITY	
	VALVE (NO I.D./UNKNOWN)	
	WATER METER	
	WATER PULLBOX	
	WATER VALVE	
	CONCRETE	
	BRICK	
	STRIFE	
	OVER HEAD WIRE	
	CHAIN LINK FENCE	
	WOOD FENCE	
	CENTERLINE	
	CLEANOUT	
	DIAMETER	
	DRIVEWAY	
	ENTRANCE	
	STAIR	
	RIGHT OF WAY	
	WHEELCHAIR RAMP	

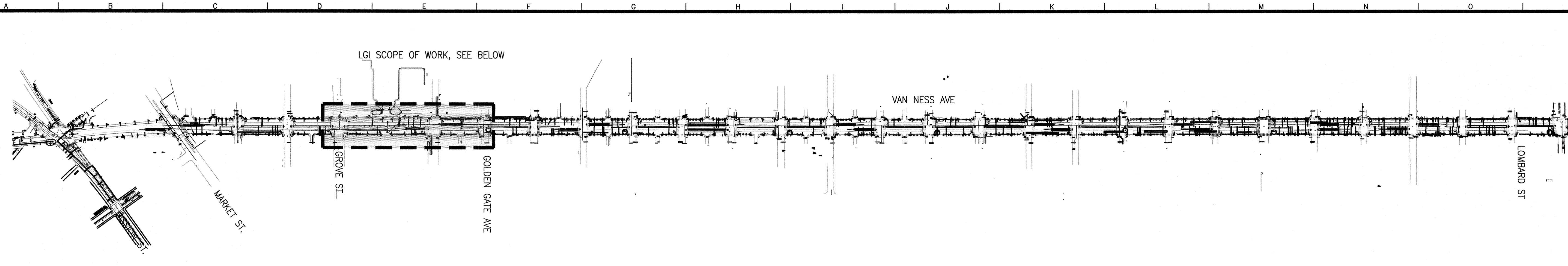
CONTRACT NO. 1289

ELEVATION DATUM CITY

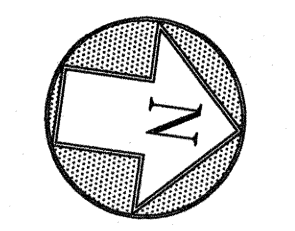


CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION			
SECTION MANAGER	9/5	DRAWN	BJ/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD SK
NO.	DATE	DESCRIPTION	BY APP'D
REVISIONS			

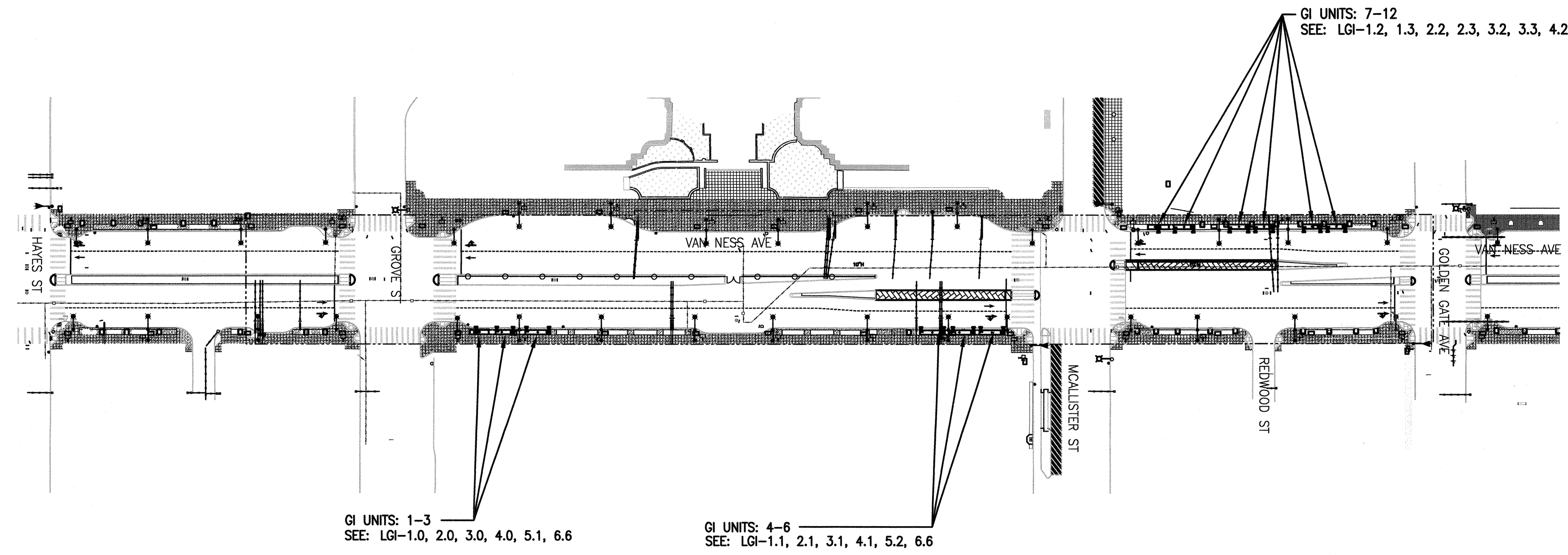
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION ENGINEERING MANAGEMENT BUREAU			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
LANDSCAPE GREEN INFRASTRUCTURE GENERAL NOTES & ABBREVIATIONS			
SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED <i>[Signature]</i> MANAGER		APPROVED <i>[Signature]</i> ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISES	
SHEET	102,811	DRAWING NO. LGI-0.0	REVISION NO. 0



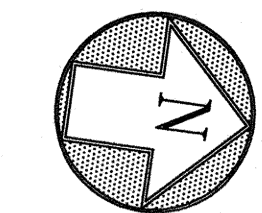
LANDSCAPE GREEN INFRASTRUCTURE (LGI) – SCOPE OF WORK



SCALE: NTS



LGI – KEY PLAN



SCALE: 1" = 70'-0"

NOTES:

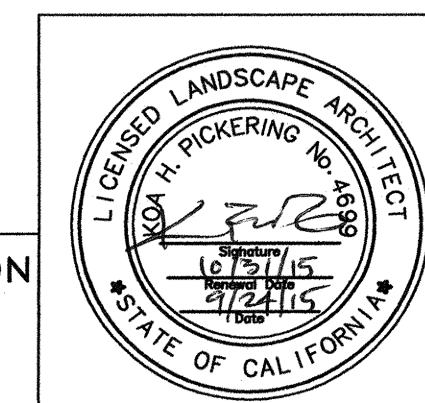
1. FOR OTHER LANDSCAPE WORK IN SIDEWALK, STREET TREES, AND MEDIANS, SEE LA-, LI-, LP-, LT DRAWINGS.

CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE
KEY PLAN

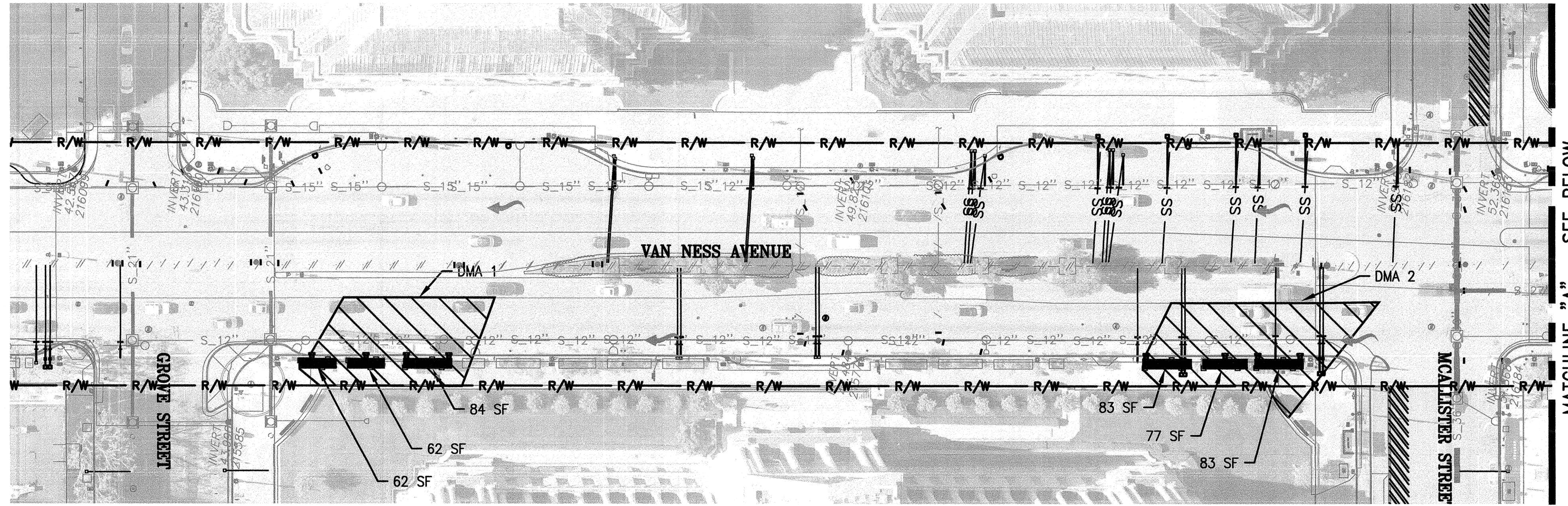


ELEVATION DATUM CITY




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

SECTION MANAGER	9/15	DRAWN	Bj/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD
NO.		DATE	
DESCRIPTION		BY	
REVISIONS		APPR'D	

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	MANAGER	APPROVED	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
SHEET		PLAN NO.	REVISION NO.
		102.812	LGI-0.1
			0



LEGEND

-  (E) FLOW DIRECTION
-  (N) BIORETENTION PLANTER
-  DMA

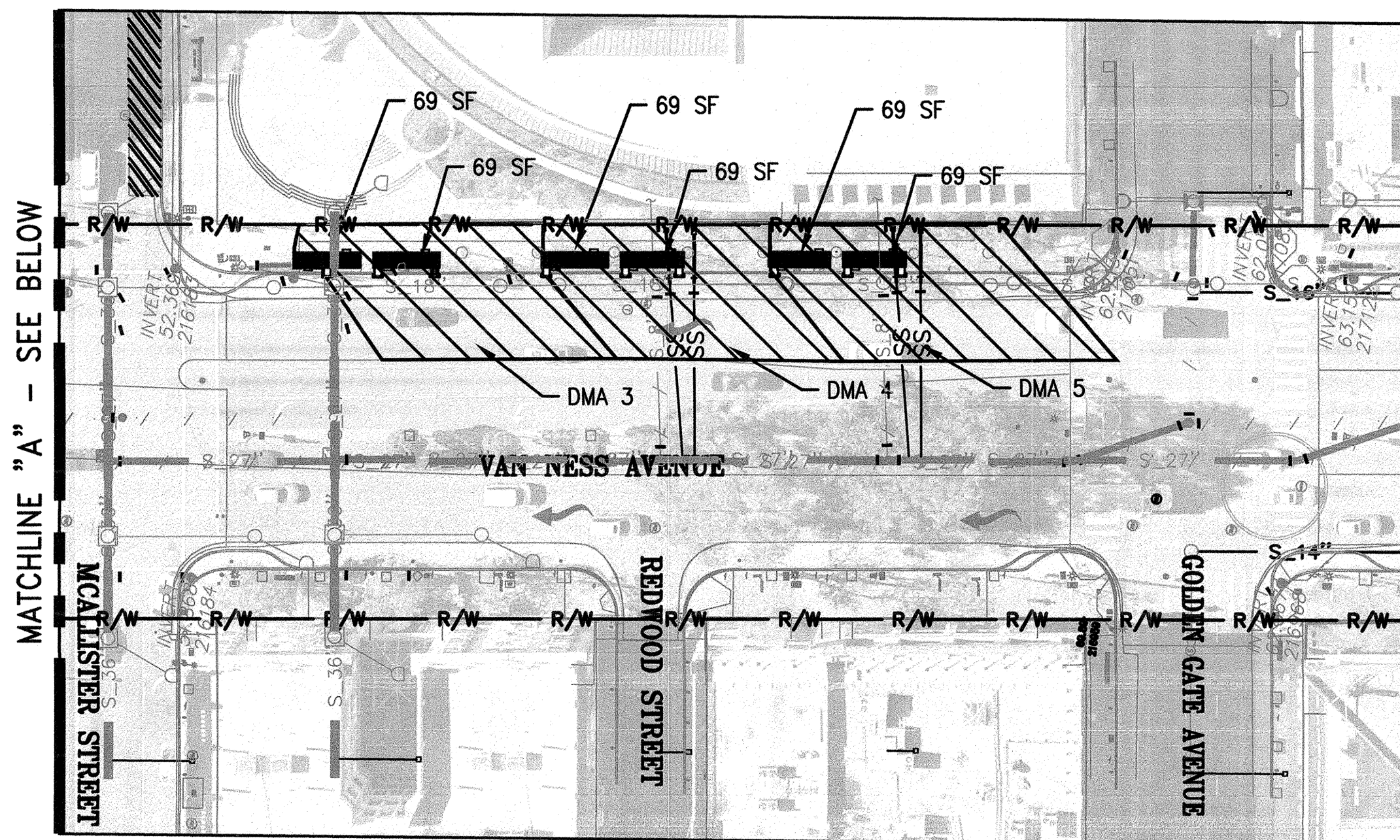


TABLE 1: DRAFT STORMWATER MANAGEMENT PLAN - Van Ness Corridor Transit Improvement Project
 Prepared by: AECOM/SFDPW 6/23/2015

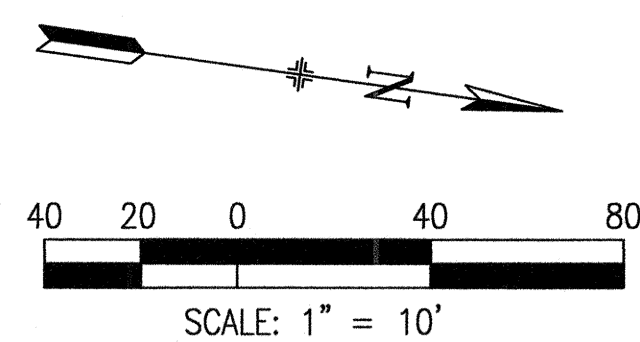
DMA ID No.	DMA (SF) ¹	DMA (Acre)	BMP Type	Ponding Depth (FT) ²	Media Thickness (FT)	Aggregate Thickness (FT)	d (INCH)	Low Intensity Storm Scenario			
								BMP Area Provided (SF)	Storage Required (CF)	Storage Available (CF)	BMP Sizing Ratio
DMA 1	3,775	0.087	Bioretention	0.4	1.5	1	0.75	208	218	217	5.5%
DMA 2	4,486	0.103	Bioretention	0.4	1.5	1	0.75	243	259	253	5.4%
DMA 3	3,200	0.073	Bioretention	0.4	1.5	1	0.75	138	185	144	4.3%
DMA 4	3,450	0.079	Bioretention	0.4	1.5	1	0.75	138	199	144	4.0%
DMA 5	3,450	0.079	Bioretention	0.4	1.5	1	0.75	138	199	144	4.0%
Total	18,361	0.422						865	1,061	901	

- Notes:**
- All DMA's were assumed to be 92.5% impervious.
 - Bioretention Units Depth is an 18" layer of engineered media providing 15% void ratio, a 12" layer of aggregate (including a 3" choker layer) providing 40% void ratio and 6" ponding depth.
 - Overall tributary area from Grove St to Golden Gate Ave is 2.9 acres. The area managed by green infrastructure is about 14.5% of the total tributary area.

VOID RATIOS		POROSITY
Assumed Void Ratio for Engineered Media	15%	0.130
Assumed Void Ratio for Storage Gallery Aggregate	40%	0.286

PLAN

SCALE: 1"=40'



CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
 ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
 VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

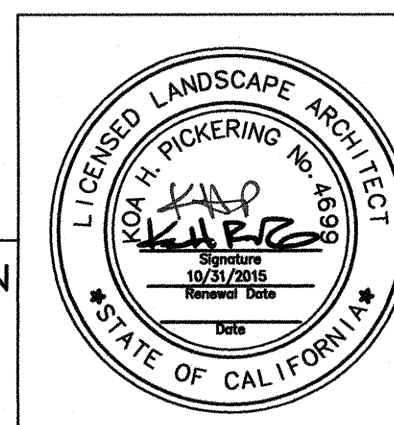
**LANDSCAPE GREEN INFRASTRUCTURE
 STORMWATER MANAGEMENT PLAN**

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

SECTION MANAGER: 7/15
 DRAWN: BJ/SP
 DEPUTY DIVISION MANAGER: DESIGNED: RPK/SH
 DIVISION MANAGER: CHECKED: JD

SECTION MANAGER: CHECKED: DRAWN: SCALE:
 DIVISION MANAGER: RECOMMENDED: DESIGNED: DATE:

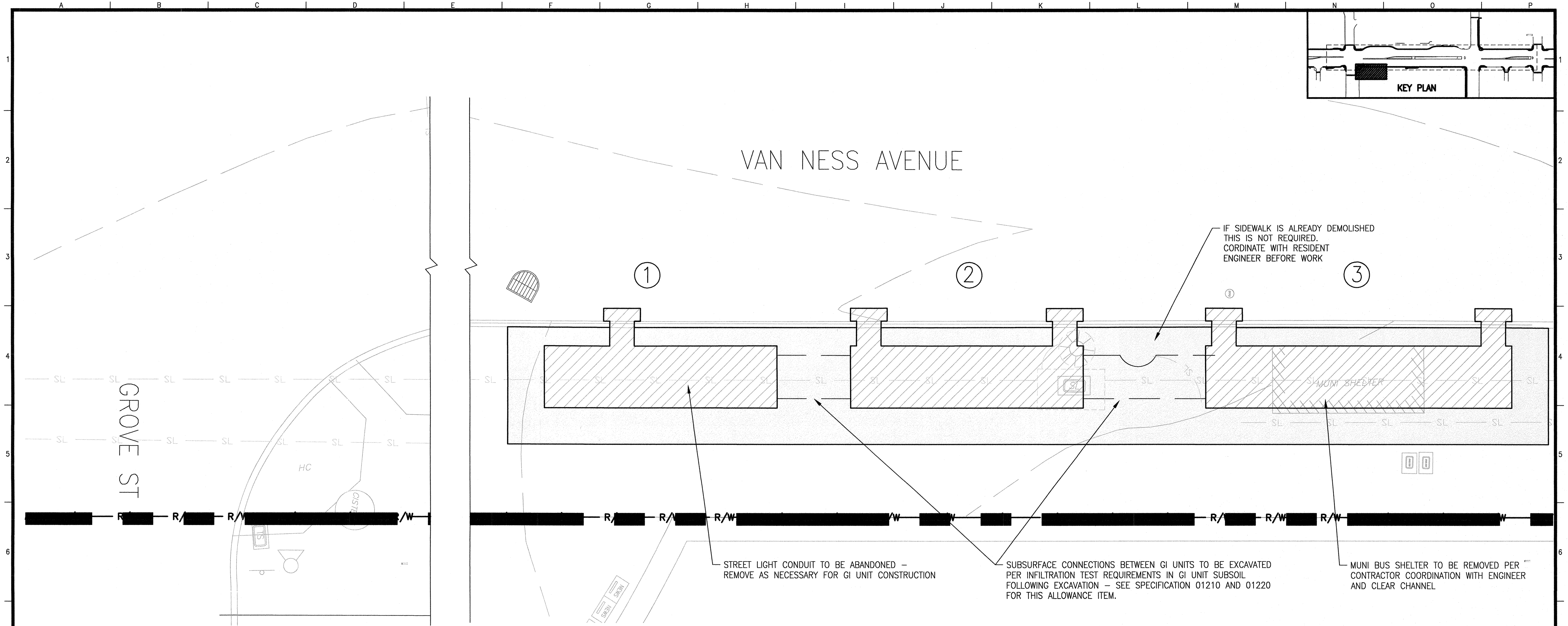
APPROVED: ASSISTANT GENERAL MANAGER
 WASTEWATER ENTERPRISE



ELEVATION DATUM CITY

NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

MANAGER: PLAN NO. 102,813 DRAWING NO. LGI-0.2 SHEET 0



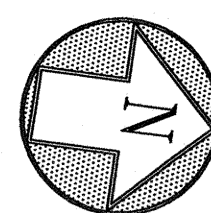
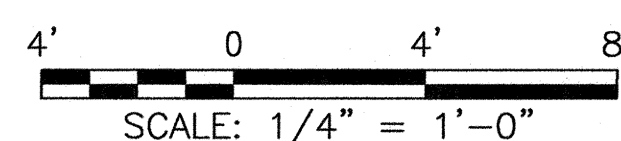
GI UNITS: 1-3, GROVE & VAN NESS

NOTES:

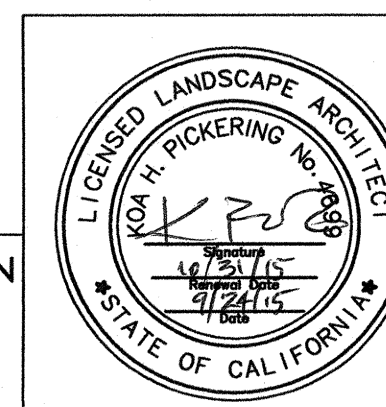
1. EXISTING UTILITY LATERALS SHOWN SCHEMATICALLY AND FOR REFERENCE ONLY. CONTRACTOR TO EXPOSE (E) UTILITIES PRIOR OR DURING DEMOLITION/EXCAVATION TO EXPOSE (E) UTILITY SERVICES TO CONFIRM LOCATION AND DEPTH SUFFICIENT TO ALLOW CONSTRUCTION OF PLANNED BIORETENTION UNITS. LOCATIONS AND DEPTHS TO BE PROVIDED TO CITY REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
2. ALL EXCAVATION WORK WITHIN THE DRIP LINES OF EXISTING TREES TO REMAIN, SHALL BE DONE BY HAND. CLEANLY CUT ANY ROOTS SMALLER THAN 2" DIA IN CONFLICT WITH NEW WORK. DO NOT TEAR ROOTS. ANY ROOTS LARGER THAN 2" DIA SHALL BE LEFT UNDISTURBED AND IMMEDIATELY NOTIFY THE ENGINEER.
3. SAWCUT OF (E) PAVEMENT TO BE 2 FEET OFF OUTSIDE EDGE OF (N) FLUSH CURB.
4. CONTRACTOR TO PROTECT ANY AND ALL SURFACES/FEATURES FROM DAMAGE AND HAVE DRIP PANS PLACED UNDER ANY EQUIPMENT DURING IDLE PERIODS.
5. CONTRACTOR TO PROVIDE FENCING/BARRIERS AROUND ALL WORK PER SFPDW STANDARDS.
6. CONTRACTOR TO COORDINATE PAVEMENT CUTTING TO MINIMIZE EXTENT OF PAVEMENT REMOVAL.
7. CONTRACTOR SOLELY RESPONSIBLE FOR SECURITY OF ANY STORED EQUIPMENT AND/OR MATERIALS.
8. SIDEWALK TO BE REMOVED TO NEAREST FLAG/SCORE LINE, TYP.
9. ANY SIDEWALK AND/OR CURBING REPLACEMENT SHALL MATCH EXISTING SIZE/COLOR/TEXTURE AND BE ACCEPTED BY THE ENGINEER.
10. PROTECT (E) TREES PER SFPDW SPECIFICATIONS.
11. PROTECT (E) UTILITY VAULTS AND BOXES WITHIN DEMOLITION LIMITS. ADJUST (E) RIM TO FINISH ELEVATION AS REQUIRED TO MATCH ADJACENT IMPROVEMENTS.
12. PROTECT (E) CURB/GUTTER, TYP. U.O.N.
13. FOR DEMOLITION AND REMOVAL OF EXISTING SIDEWALK SEE LANDSCAPE BID ITEMS, SPECIFICATION SECTION 01220.

LEGEND

- L.O.W. -- LIMIT OF WORK FOR LANDSCAPE GREEN INFRASTRUCTURE
- REMOVE (E) CONCRETE CURB AND GUTTER, AC AND AB, AND EXCAVATE FOR BIORETENTION CELL CONSTRUCTION
- REMOVE (E) ADDITIONAL CONCRETE SIDEWALKS TO CONSTRUCT BIORETENTION CELLS, IF SIDEWALK NOT ALREADY REMOVED BY GENERAL CONTRACTOR PER LANDSCAPE BIORETENTION ITEMS, SPECIFICATION SECTION 01220.
- GI UNIT NUMBER
- PROTECT EXISTING TREE TO REMAIN



ELEVATION DATUM CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION			
SECTION MANAGER <i>[Signature]</i>	DESIGNED 9/15 BJ/SP	DRAWN BJ/SP	
DEPUTY DIVISION MANAGER	DESIGNED KP/SH	CHECKED JD	
DIVISION MANAGER <i>[Signature]</i>	CHECKED JD	APPROVED <i>[Signature]</i>	
NO. DATE DESCRIPTION BY APPR'D		REVISIONS	

CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

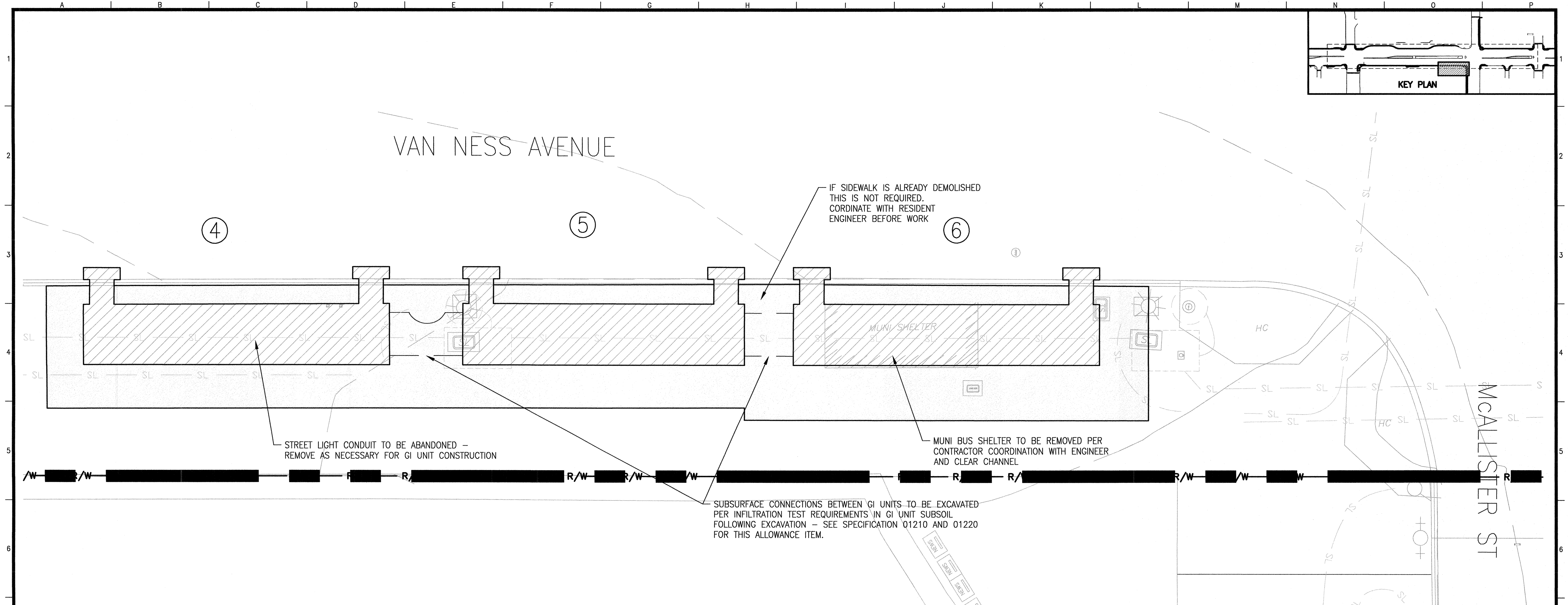
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

DEMOLITION PLAN
HAYES AND VAN NESS

SECTION MANAGER <i>[Signature]</i>	CHECKED <i>[Signature]</i>	DRAWN <i>[Signature]</i>	SCALE
DIVISION MANAGER <i>[Signature]</i>	RECOMMENDED <i>[Signature]</i>	DESIGNED <i>[Signature]</i>	DATE
APPROVED <i>[Signature]</i> MANAGER		APPROVED <i>[Signature]</i> ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE	
NO. DATE DESCRIPTION BY APPR'D		PLAN NO. 102,814	DRAWING NO. LGI-1.0
REVISIONS		SHEET	REVISION NO. 0

SCALE: 1/4" = 1'-0"

1




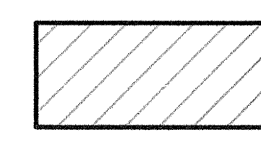
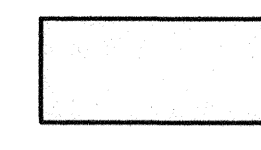
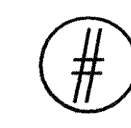

GI UNITS: 4-6, McALLISTER & VAN NESS

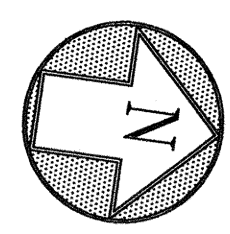
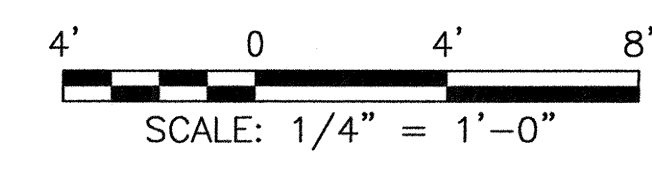
SCALE: 1/4" = 1'-0"

NOTES:

1. EXISTING UTILITY LATERALS SHOWN SCHEMATICALLY AND FOR REFERENCE ONLY. CONTRACTOR TO EXPOSE (E) UTILITIES PRIOR OR DURING DEMOLITION/EXCAVATION TO EXPOSE (E) UTILITY SERVICES TO CONFIRM LOCATION AND DEPTH SUFFICIENT TO ALLOW CONSTRUCTION OF PLANNED BIORETENTION UNITS. LOCATIONS AND DEPTHS TO BE PROVIDED TO CITY REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
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12. PROTECT (E) CURB/GUTTER, TYP. U.O.N.
13. FOR DEMOLITION AND REMOVAL OF EXISTING SIDEWALK SEE LANDSCAPE BID ITEMS, SPECIFICATION SECTION 01220.

LEGEND

-  L.O.W. -- LIMIT OF WORK FOR LANDSCAPE GREEN INFRASTRUCTURE
-  REMOVE (E) CONCRETE CURB AND GUTTER, AC AND AB, AND EXCAVATE FOR BIORETENTION CELL CONSTRUCTION
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-  GI UNIT NUMBER
-  PROTECT EXISTING TREE TO REMAIN



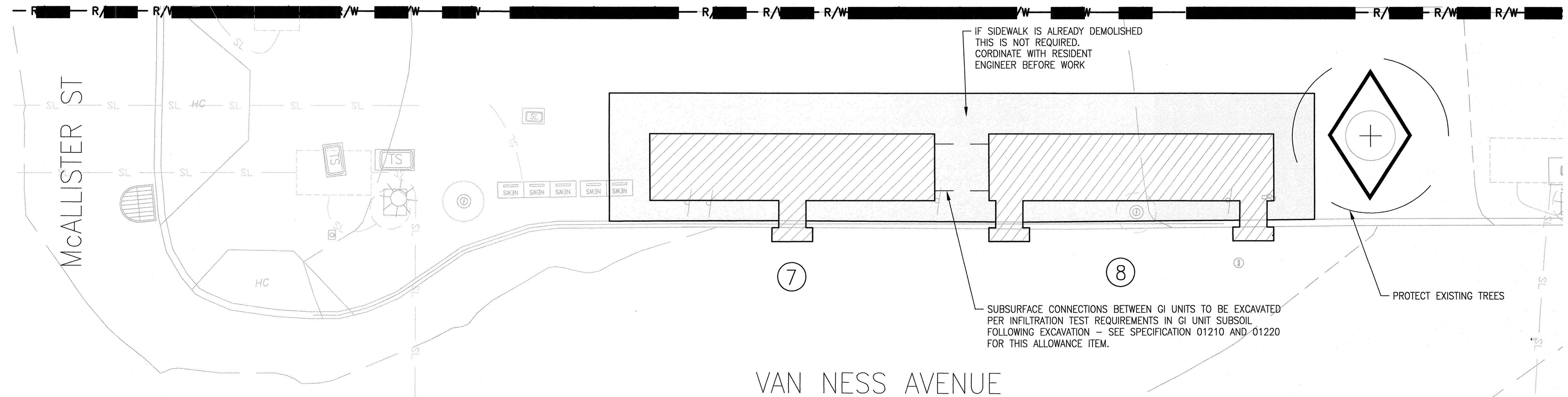
ELEVATION DATUM CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION			
SECTION MANAGER <i>9/15</i>	DRAWN BJ/SP	SECTION MANAGER <i>9/15</i>	CHECKED DATE
DEPUTY DIVISION MANAGER	DESIGNED KP/SH	DIVISION MANAGER <i>9/15</i>	RECOMMENDED DATE
	CHECKED JD <i>9/15</i>	APPROVED <i>[Signature]</i>	APPROVED <i>[Signature]</i>
NO.	DATE	DESCRIPTION	BY
REVISIONS			

CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION ENGINEERING MANAGEMENT BUREAU			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
DEMOLITION PLAN GROVE AND VAN NESS			
SECTION MANAGER <i>9/15</i>	CHECKED	DRAWN	SCALE
DIVISION MANAGER <i>9/15</i>	RECOMMENDED	DESIGNED	DATE
MANAGER <i>[Signature]</i>	APPROVED <i>[Signature]</i>	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE	REVISION NO.
SHEET	102,815	LG1-1.1	0

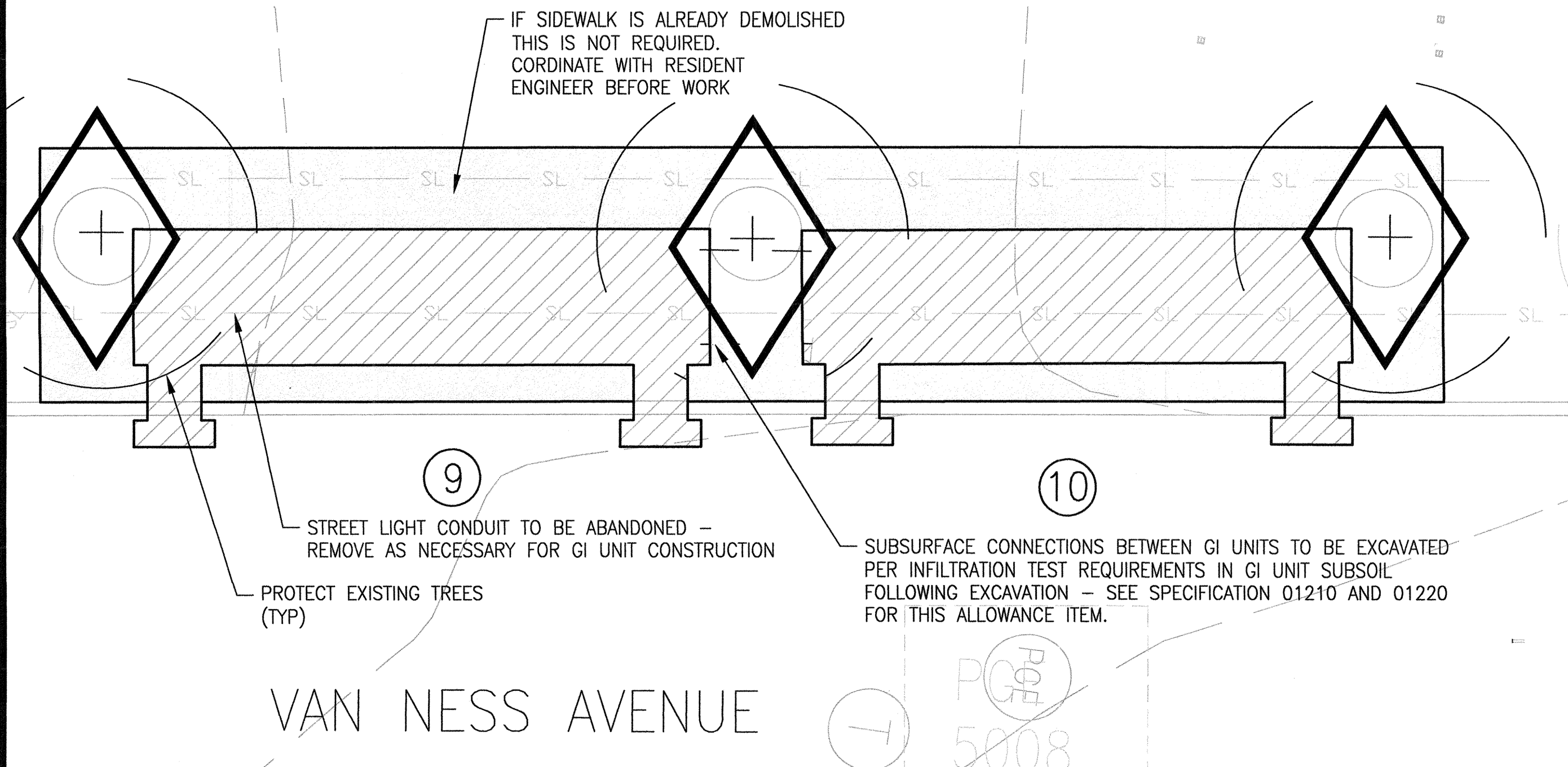
GI UNITS: 7 & 8, McALLISTER & VAN NESS



SCALE: 1/4" = 1'-0"

1

GI UNITS: 9 & 10, McALLISTER & VAN NESS



SCALE: 1/4" = 1'-0"

2

NOTES:

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LEGEND

- L.O.W. - LIMIT OF WORK FOR LANDSCAPE GREEN INFRASTRUCTURE
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- # GI UNIT NUMBER
- + PROTECT EXISTING TREE TO REMAIN

CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

DEMOLITION PLAN
MCCALLISTER AND VAN NESS



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

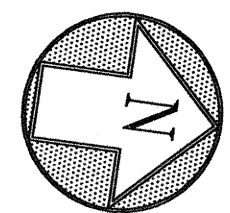
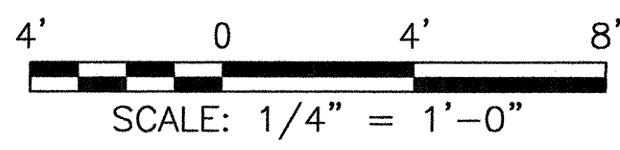
SECTION MANAGER	DESIGNED	DRAWN
DEPUTY DIVISION MANAGER	DESIGNED	KP/SH
DIVISION MANAGER	CHECKED	JD

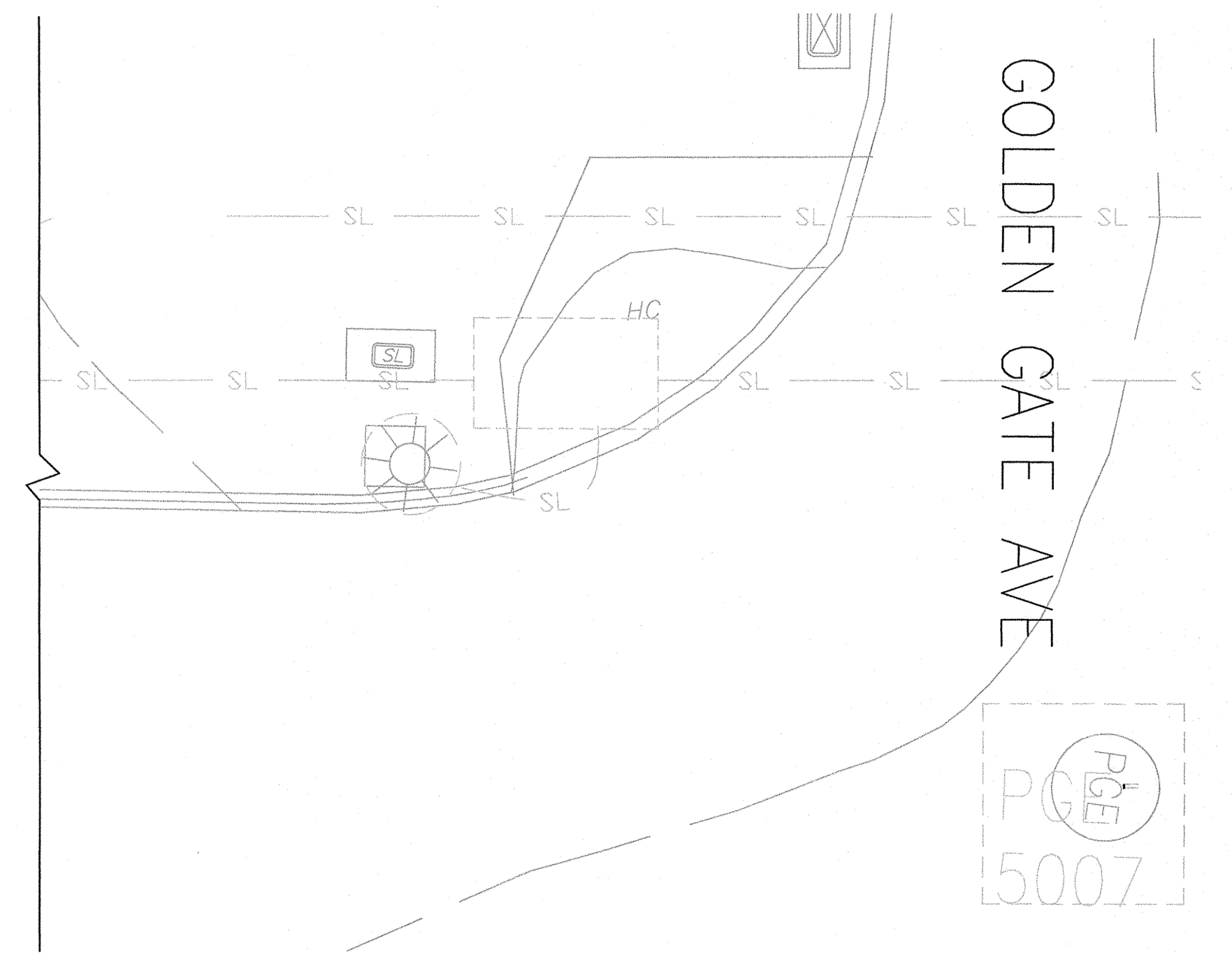
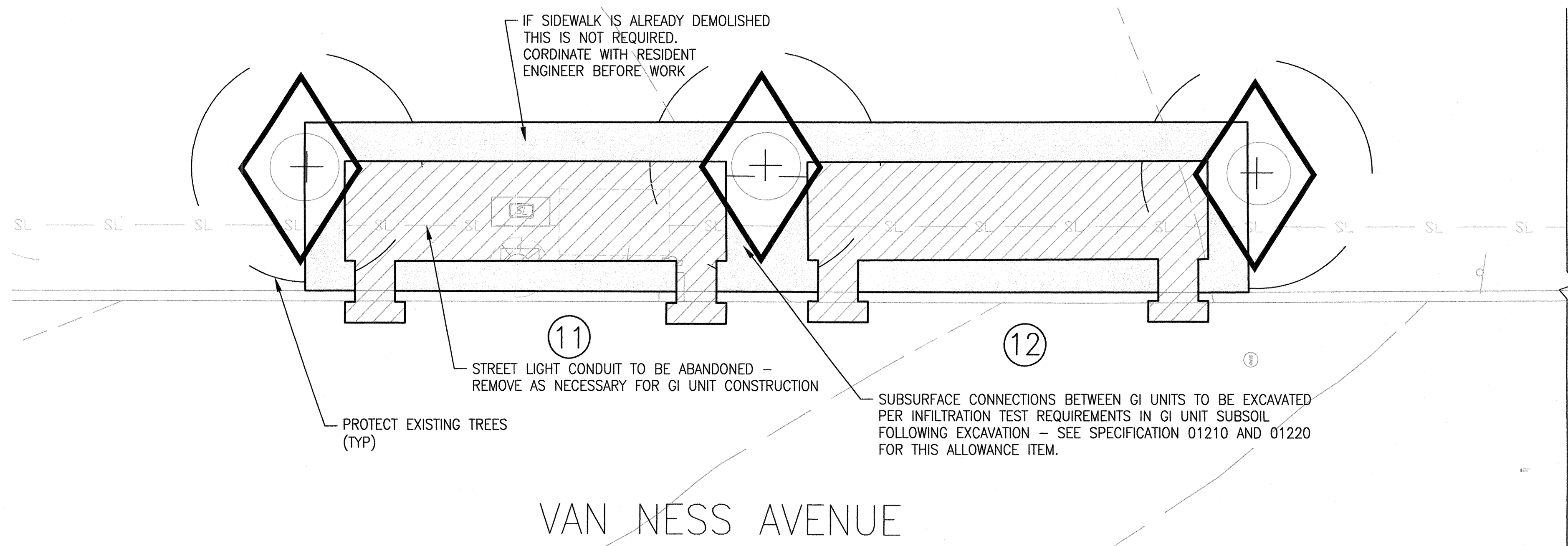
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE

APPROVED	APPROVED	PLANNING NO.	DRAWING NO.	REVISION NO.
		102,816	LG1-1.2	0

ELEVATION DATUM CITY





GI UNITS: 11 & 12, McALLISTER & VAN NESS

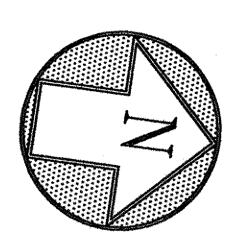
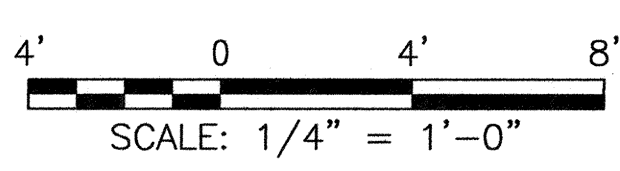
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NOTES:

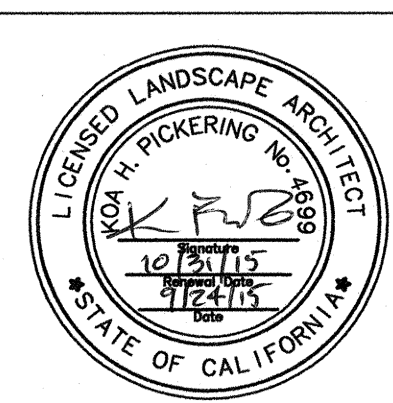
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LEGEND

- L.O.W. - LIMIT OF WORK FOR LANDSCAPE GREEN INFRASTRUCTURE
- REMOVE (E) CONCRETE CURB AND GUTTER, AC AND AB, AND EXCAVATE FOR BIORETENTION CELL CONSTRUCTION
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- GI UNIT NUMBER
- PROTECT EXISTING TREE TO REMAIN

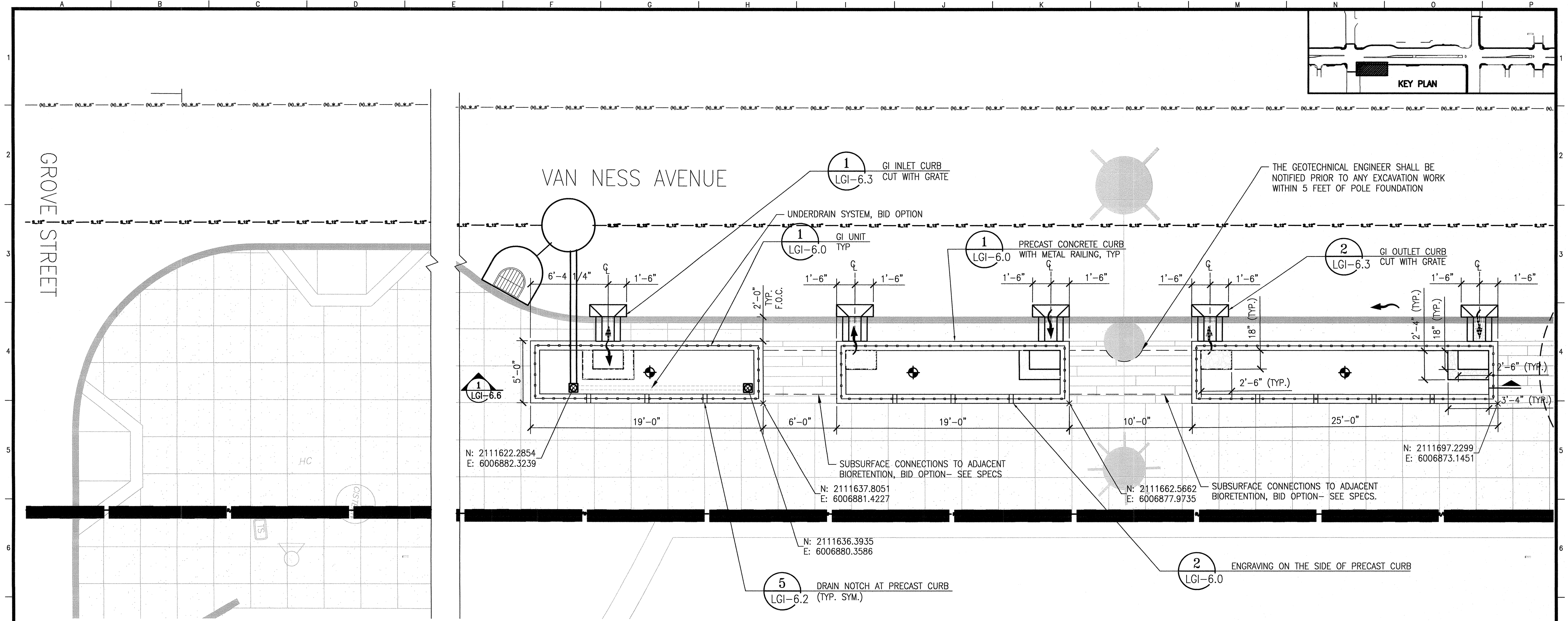


ELEVATION DATUM CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION			
SECTION MANAGER	DESIGNED	DRAWN	SCALE
DEPUTY DIVISION MANAGER	DESIGNED	KP/SH	
DIVISION MANAGER	CHECKED	JD SA	
NO. DATE DESCRIPTION BY APPR'D			
REVISIONS			

CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION ENGINEERING MANAGEMENT BUREAU			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
DEMOLITION PLAN MCCALLISTER AND VAN NESS			
SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	MANAGER	APPROVED	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
SHEET		PLAN NO. 102,817	DRAWING NO. LGI-1.3
		REVISION NO.	0

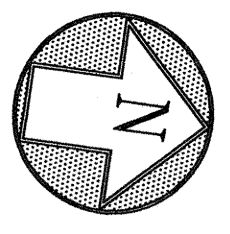
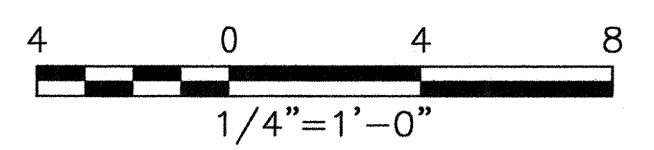


GI UNITS: 1-3, GROVE & VAN NESS

SCALE: 1/4" = 1'-0" 1

LAYOUT LEGEND

	CONCRETE BIORETENTION PLANTER	1 LGI-6.0	1 LGI-6.1	2 LGI-6.1
N: E:	NORTHING LOCATION EASTING LOCATION			
	GI UNIT	1 LGI-6.0		
	(E) TREE			
	NEW TREE, SEE LP DWGS			
	DOUBLE RING INFILTRATION TEST LOCATION AFTER EXCAVATION AND BEFORE PLACING STORAGE ROCK AND PLANTING SOIL, SEE SPECIFICATION FOR INFILTRATION TEST REQUIREMENTS			
	STREET LIGHT, SEE SL DRAWINGS			
	DIRECTION OF FLOW			
	SUBSURFACE CONNECTIONS TO ADJACENT BIORETENTION, TYP.			
	G.I. UNDERDRAIN SYSTEM, SEE SW DRAWINGS FOR SEWER CONNECTIONS AND FACILITIES, TYP	1,2 LGI-6.4	BID OPTION- SEE SPECS	
	PERFORATED UNDERDRAIN PIPE	3 LGI-6.3		
SEE NOTES SHEET LGI-0.0				



ELEVATION DATUM CITY



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

SECTION MANAGER	9/15	DRAWN	BJ/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD SA
NO. DATE		DESCRIPTION	
BY		APPR'D	
REVISIONS			

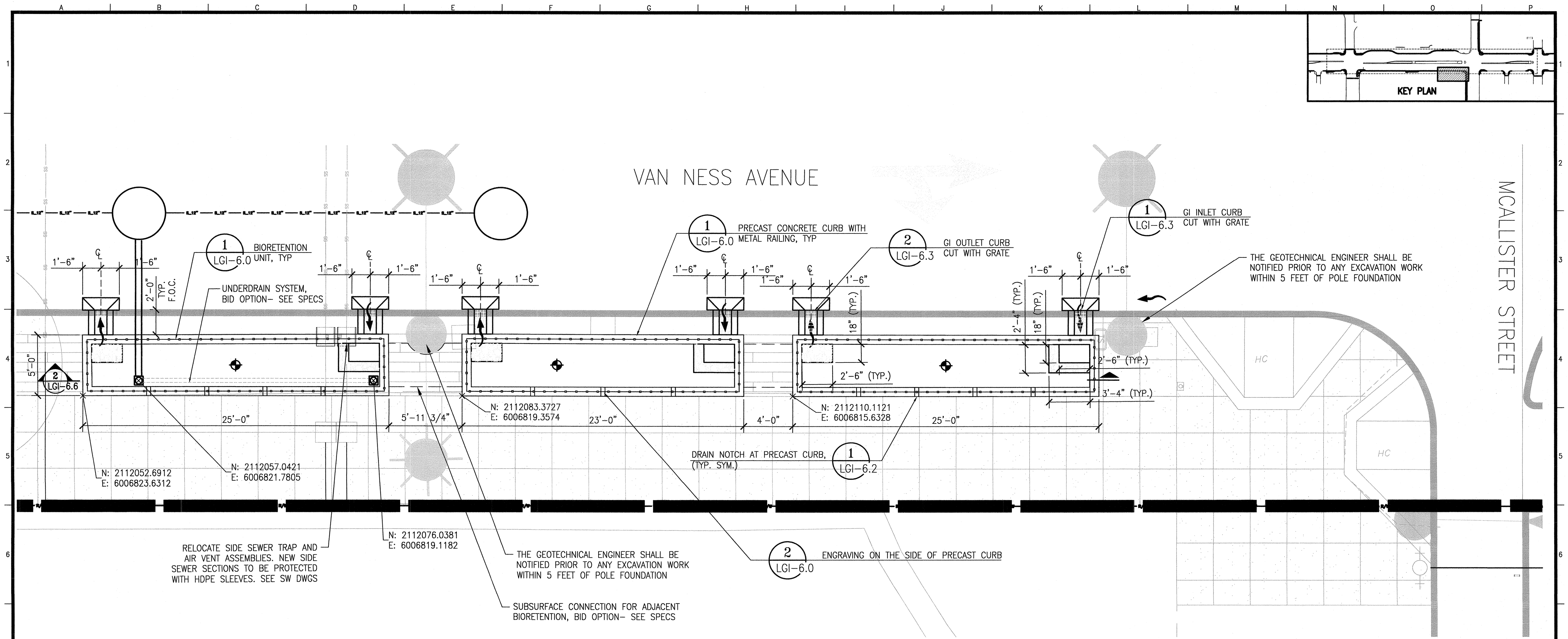
CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE LAYOUT PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	MANAGER	APPROVED	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
NO.	DATE	DESCRIPTION	BY
SHEET		PLAN NO.	DRAWING NO.
		102,818	LGI-2.0
		REVISION NO.	0

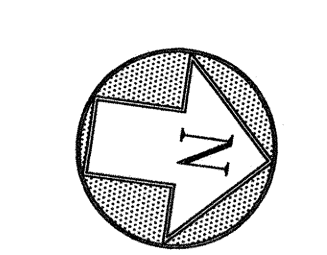
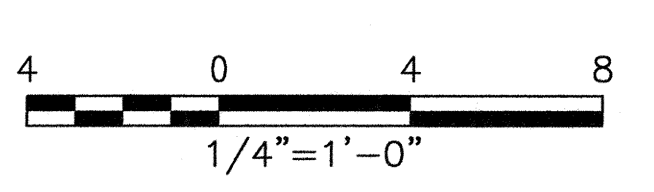


GI UNITS: 4-6, McALLISTER & VAN NESS

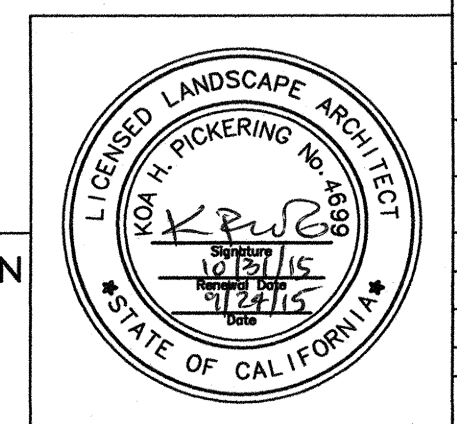
SCALE: 1/4" = 1'-0" **1**

LAYOUT LEGEND

- CONCRETE BIORETENTION PLANTER (1 LGI-6.0, 1 LGI-6.1, 2 LGI-6.1)
- NORTHING LOCATION (N:), EASTING LOCATION (E:)
- NTS GI UNIT (1 LGI-6.0)
- (E) TREE
- NEW TREE, SEE LP DWGS
- DOUBLE RING INFILTROMETER TEST LOCATION AFTER EXCAVATION AND BEFORE PLACING STORAGE ROCK AND PLANTING SOIL, SEE SPECIFICATION FOR INFILTRATION TEST REQUIREMENTS
- STREET LIGHT, SEE SL DRAWINGS
- DIRECTION OF FLOW
- SUBSURFACE CONNECTIONS TO ADJACENT BIORETENTION, TYP.
- G.I. UNDERDRAIN SYSTEM, SEE SW DRAWINGS FOR SEWER CONNECTIONS AND FACILITIES, TYP. (1,2 LGI-6.4) BID OPTION-SEE SPECS
- PERFORATED UNDERDRAIN PIPE (3 LGI-6.3)
- SEE NOTES SHEET LGI-0.0



ELEVATION DATUM CITY



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

SECTION MANAGER	915	DRAWN	Bj/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD SA

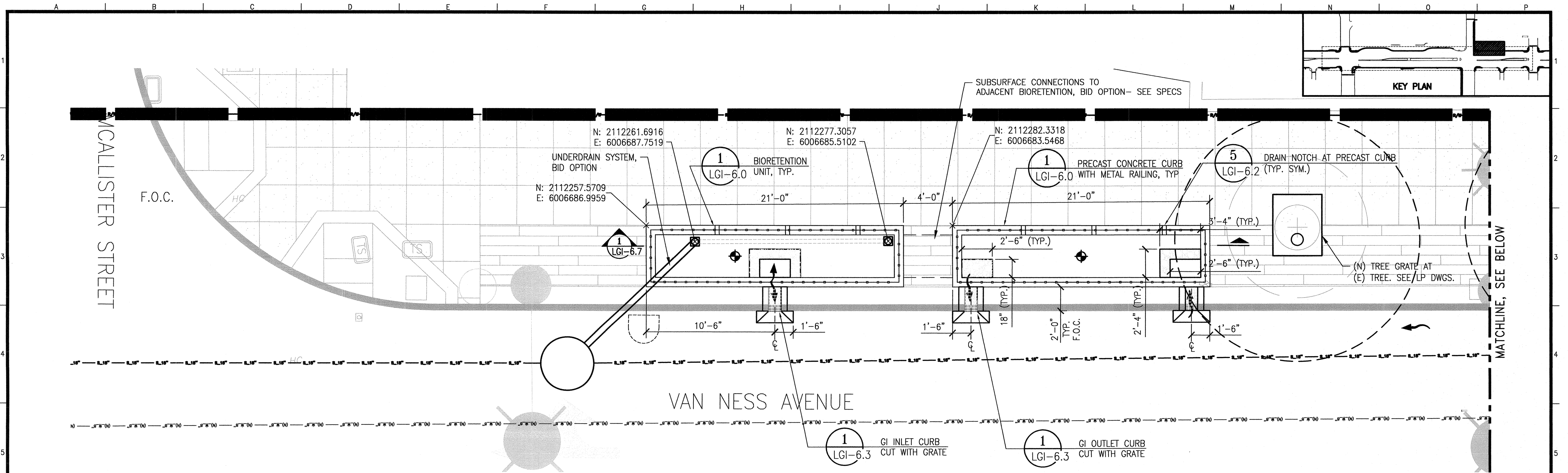
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CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

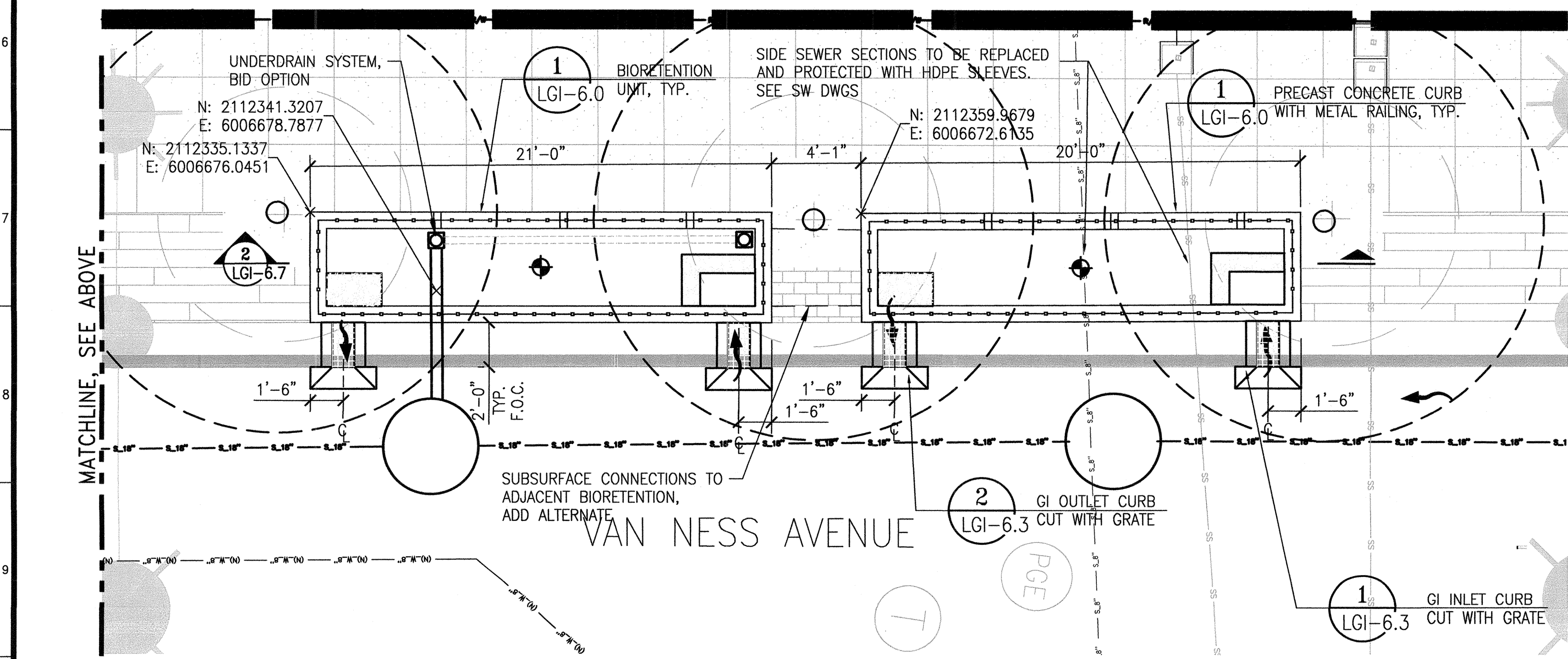
LANDSCAPE GREEN INFRASTRUCTURE LAYOUT PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	APPROVED	PLANNING	REVISION NO.
MANAGER	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE	PLANNING	
SHEET	102,819	DRAWING NO. LGI-2.1	REVISION NO. 0



GI UNITS: 7 & 8, McALLISTER & VAN NESS

SCALE: 1/4" = 1'-0" **1**



GI UNITS: 9 & 10, McALLISTER & VAN NESS

SCALE: 1/4" = 1'-0" **2**

LAYOUT LEGEND

- CONCRETE BIORETENTION PLANTER
- NORTHING LOCATION (N:), EASTING LOCATION (E:)
- GI UNIT (LGI-6.0)
- (E) TREE
- NEW TREE, SEE LP DWGS
- DOUBLE RING INFILTRMETER TEST LOCATION AFTER EXCAVATION AND BEFORE PLACING STORAGE ROCK AND PLANTING SOIL, SEE SPECIFICATION FOR INFILTRATION TEST REQUIREMENTS
- STREET LIGHT, SEE SL DRAWINGS
- DIRECTION OF FLOW
- SUBSURFACE CONNECTIONS TO ADJACENT BIORETENTION, TYP.
- G.I. UNDERDRAIN SYSTEM, SEE SW DRAWINGS FOR SEWER CONNECTIONS AND FACILITIES, TYP.
- PERFORATED UNDERDRAIN PIPE
- SEE NOTES SHEET LGI-0.0

CONTRACT NO. 1289

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

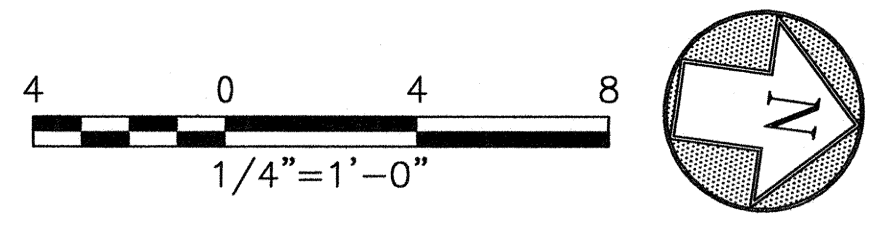
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

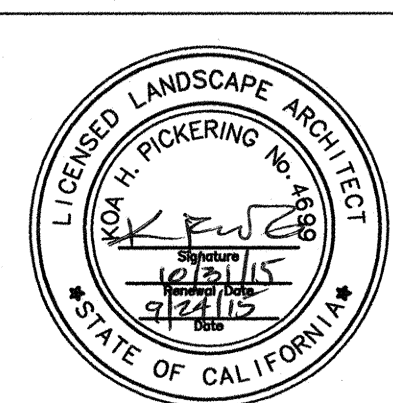
LANDSCAPE GREEN INFRASTRUCTURE LAYOUT PLAN

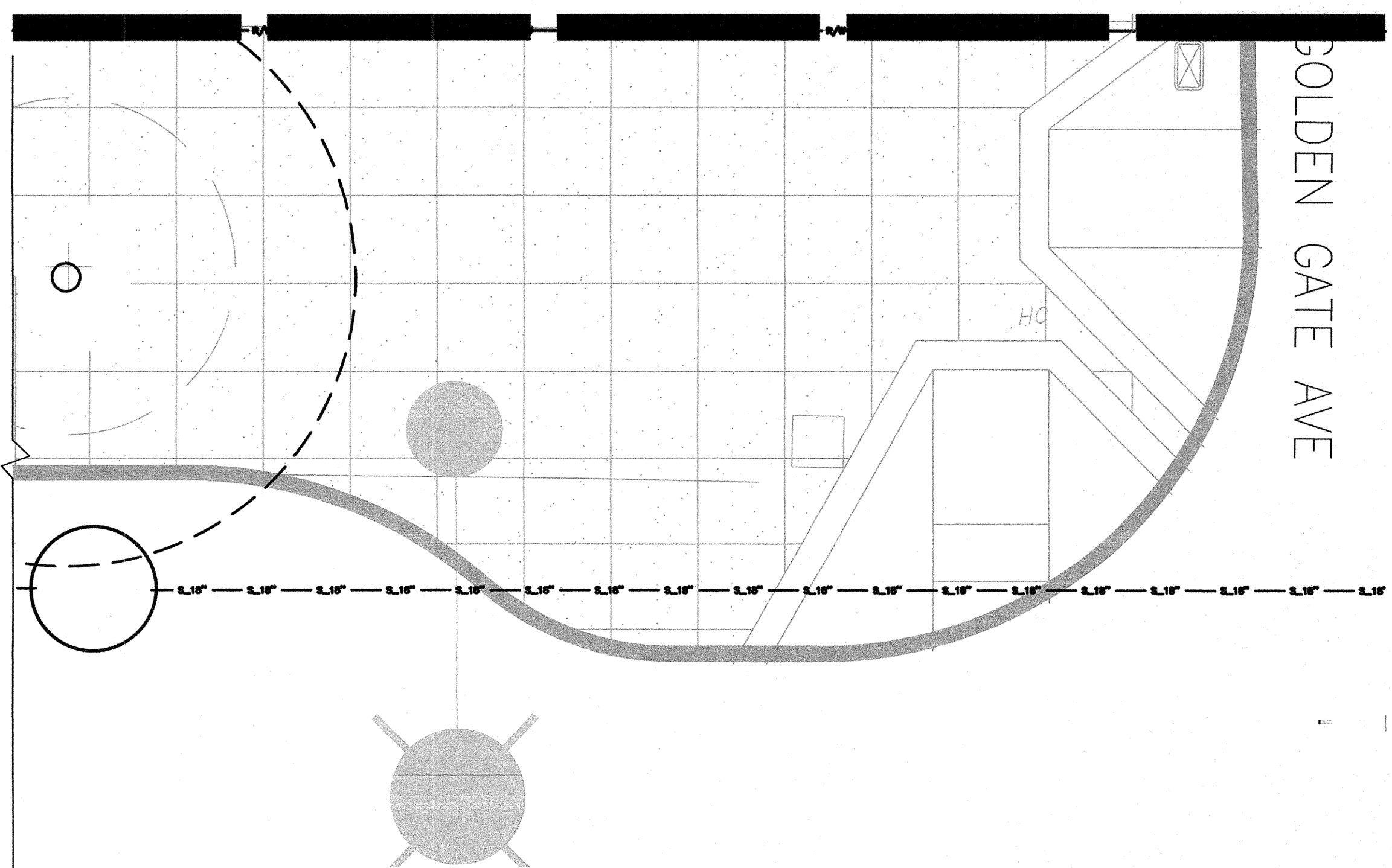
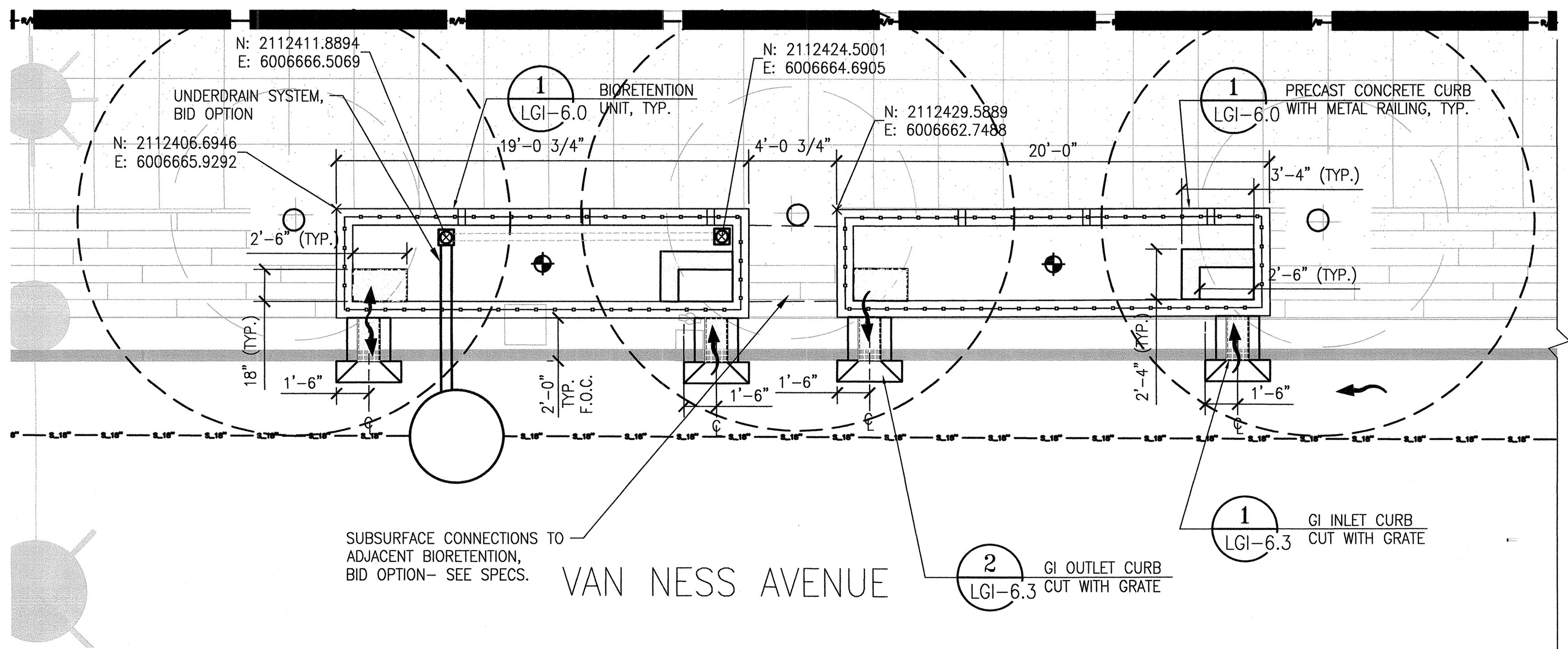
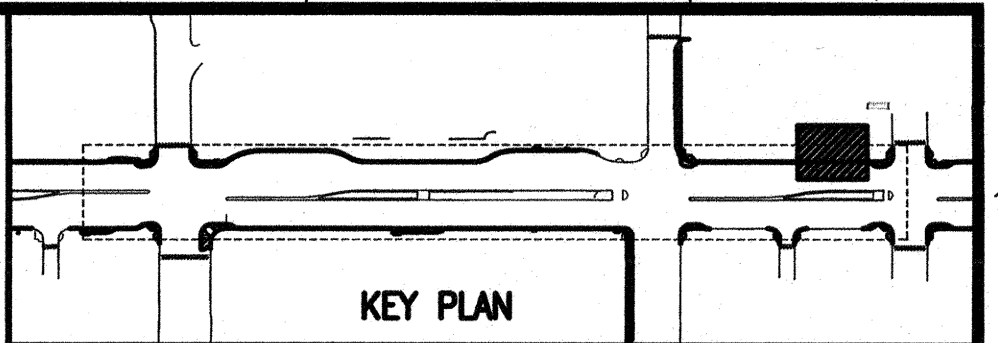
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DEPUTY DIVISION MANAGER <i>[Signature]</i>	DESIGNED KP/SH	DIVISION MANAGER <i>[Signature]</i>	RECOMMENDED	DESIGNED	DATE
APPROVED <i>[Signature]</i>		APPROVED <i>[Signature]</i>		PLANNING MANAGER	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
NO.	DATE	DESCRIPTION	BY	APPR'D	REVISION NO.
REVISIONS					
SHEET				PLAN NO.	DRAWING NO.
				102,820	LG1-2.2
					0

HYD JOB ORDER NO. 2380J



ELEVATION DATUM CITY



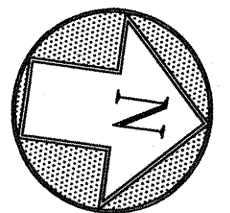
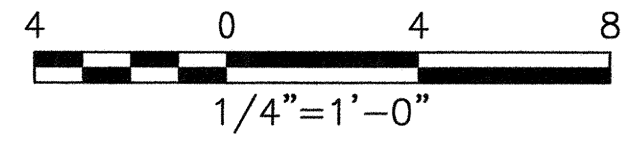


GI UNITS: 11 & 12, McALLISTER & VAN NESS

SCALE: 1/4" = 1'-0" **1**

LAYOUT LEGEND

- CONCRETE BIORETENTION PLANTER (1 LGI-6.0, 1 LGI-6.1, 2 LGI-6.1)
- NORTHING LOCATION (N:), EASTING LOCATION (E:)
- GI UNIT (1 LGI-6.0)
- (E) TREE
- NEW TREE, SEE LP DWGS
- DOUBLE RING INFILTRMETER TEST LOCATION AFTER EXCAVATION AND BEFORE PLACING STORAGE ROCK AND PLANTING SOIL, SEE SPECIFICATION FOR INFILTRATION TEST REQUIREMENTS
- STREET LIGHT, SEE SL DRAWINGS
- DIRECTION OF FLOW
- SUBSURFACE CONNECTIONS TO ADJACENT BIORETENTION, TYP.
- G.I. UNDERDRAIN SYSTEM, SEE SW DRAWINGS FOR SEWER CONNECTIONS AND FACILITIES, TYP. (1,2 LGI-6.4) - BID OPTION-SEE SPECS
- PERFORATED UNDERDRAIN PIPE (3 LGI-6.3)
- SEE NOTES SHEET LGI-0.0



ELEVATION DATUM CITY



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

SECTION MANAGER	7/15	DRAWN	Bj/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD

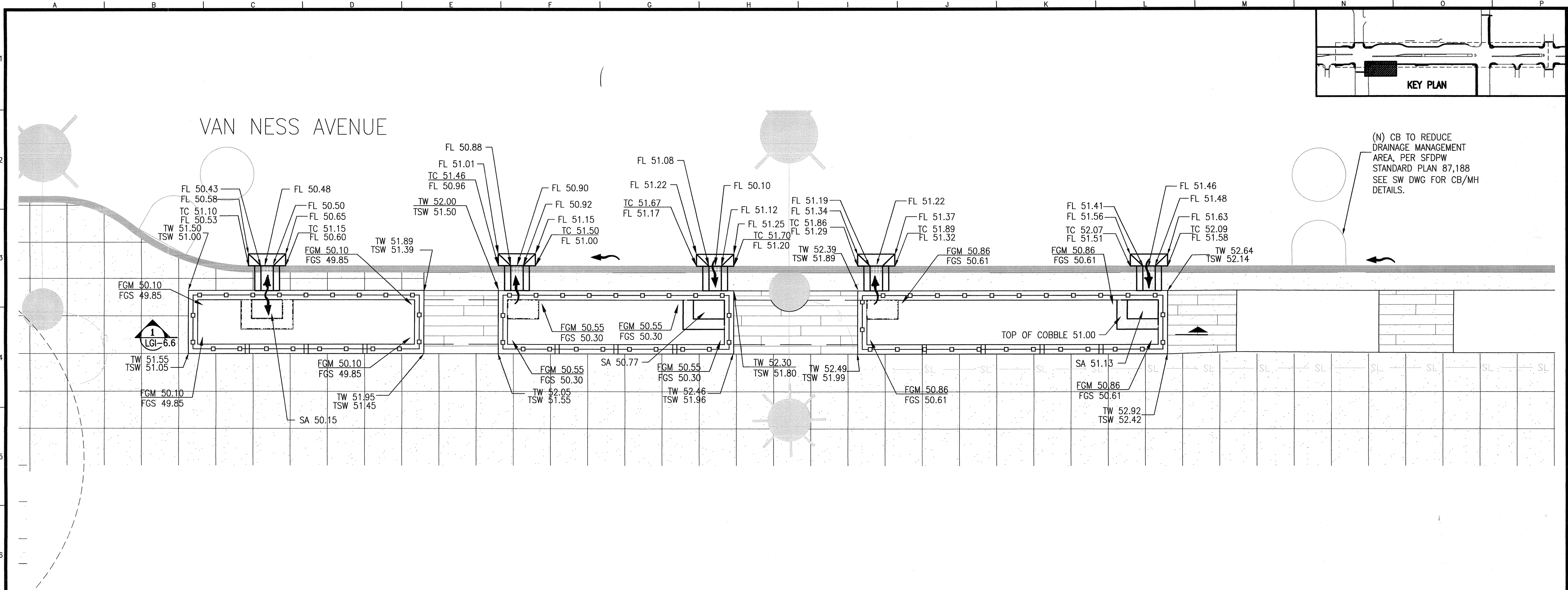
CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE LAYOUT PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE	
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE	
APPROVED	MANAGER	APPROVED	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE	
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				
SHEET	102,821	DRAWING NO. LGI-2.3	REVISION NO.	0



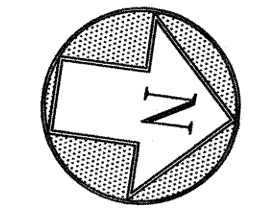
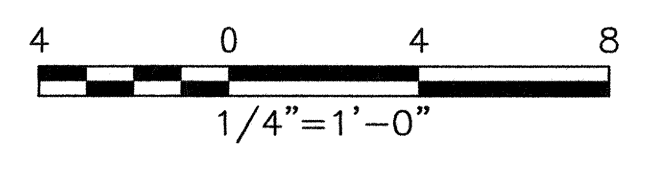
GI UNITS: 1-3, GROVE & VAN NESS

SCALE: 1/4" = 1'-0" 1

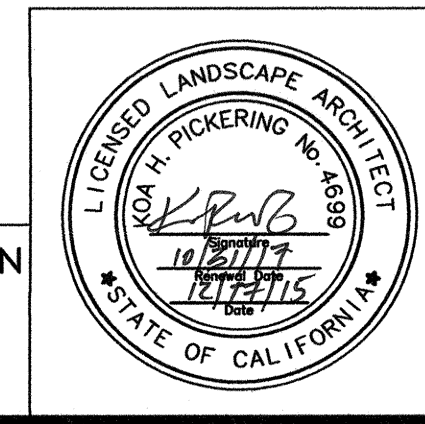
GRADING & DRAINAGE LEGEND

- | | | | |
|---------|--|-----|--|
| L.O.W. | LIMIT OF WORK | TC | TOP OF CURB |
| | EXISTING CONTOUR | TSW | TOP OF SIDEWALK |
| | PROPOSED CONTOUR | TW | TOP OF BIORETENTION CURB WALL |
| 25.00 | PROPOSED SPOT GRADE | BW | BOTTOM OF WALL |
| (34.00) | EXISTING SPOT GRADE | DI | DRAIN INLET |
| RIM EL. | RIM ELEVATION | FGM | FINISH GRADE MULCH WITHIN BIORETENTION BASIN |
| INV EL. | INVERT ELEVATION | FGS | FINISH GRADE PLANTER SOIL |
| | COBBLE FOR ENERGY DISSIPATION, SEE SPECS | SA | SPLASH APRON |
| | SPLASH APRON - SEE LAYOUT AND DETAILS | FL | FLOW LINE |

NOTE: INSIDE OF CURB CUT IS 1" BELOW FLOW LINE.
TOP OF COBBLE MULCH IS FLUSH WITH TOP OF SPLASH APRON, U.O.N.

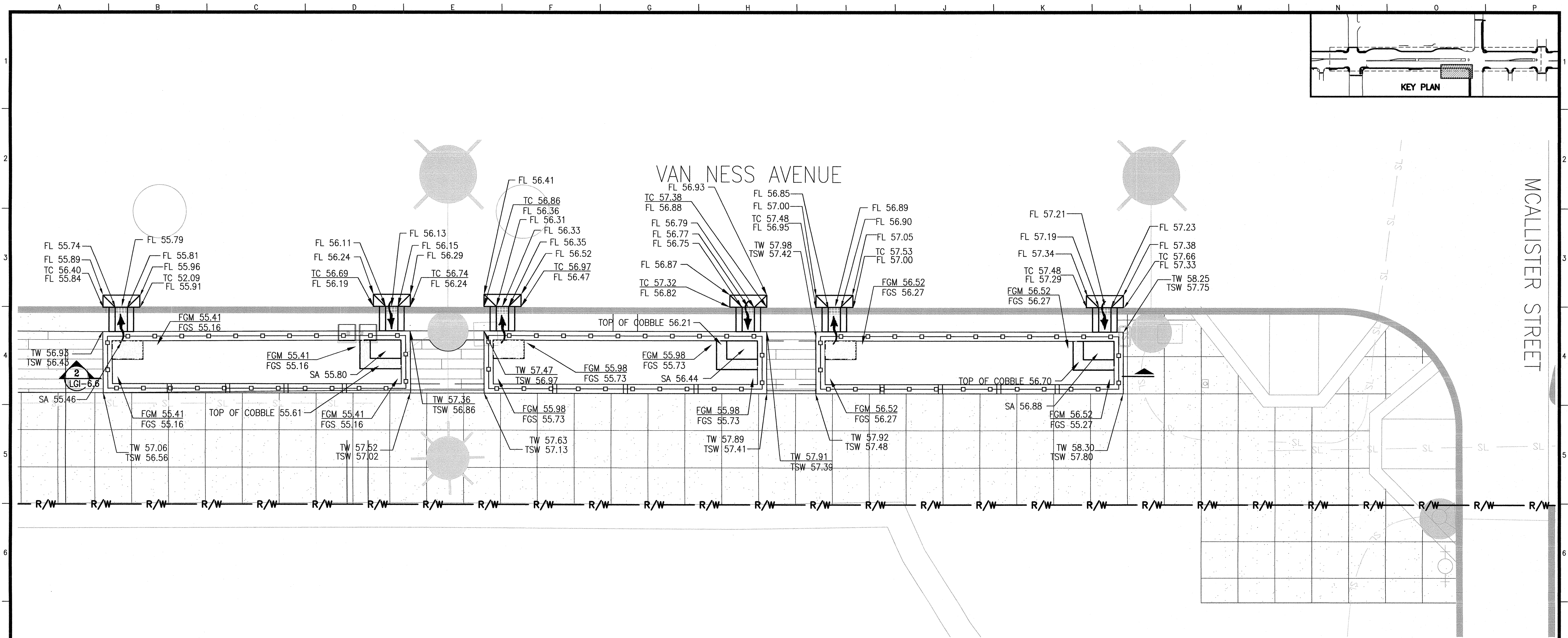


ELEVATION DATUM CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION			
SECTION MANAGER	DRAWN	BJ/SP	
DEPUTY DIVISION MANAGER	DESIGNED	KP/SH	
DIVISION MANAGER	CHECKED	JD	
REVISIONS			
NO.	DATE	DESCRIPTION	BY

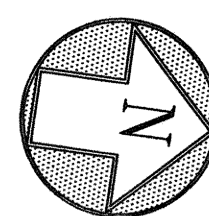
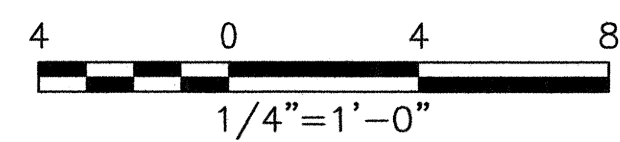
CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION ENGINEERING MANAGEMENT BUREAU			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
LANDSCAPE GREEN INFRASTRUCTURE GRADING PLAN			
SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED		APPROVED	
MANAGER		ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE	
SHEET	PLAN NO. 102,822	DRAWING NO. LGI-3.0	REVISION NO. 0



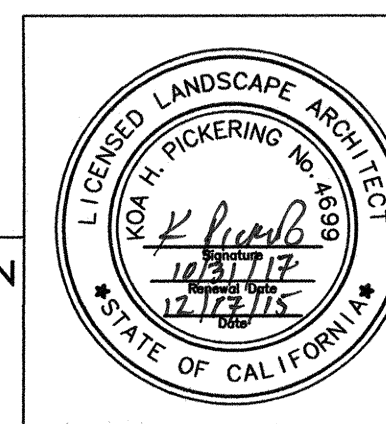
GI UNITS: 4-6, McALLISTER & VAN NESS

1

NOTES:
1. FOR NOTES & LEGEND, SEE LGI-3.0



ELEVATION
DATUM
CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION		SECTION MANAGER	DESIGNER
		DEPUTY DIVISION MANAGER	DESIGNED
		DIVISION MANAGER	CHECKED
			APPROVED
			MANAGER
			ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
NO.	DATE	DESCRIPTION	BY
		REVISIONS	APPR'D

CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

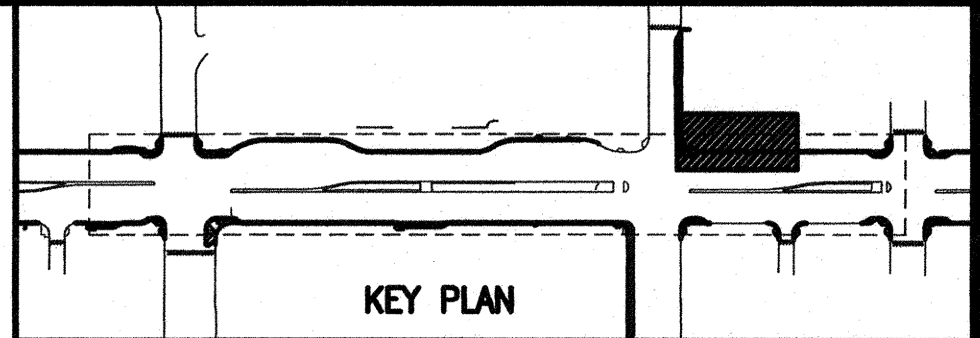
LANDSCAPE GREEN INFRASTRUCTURE
GRADING PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE

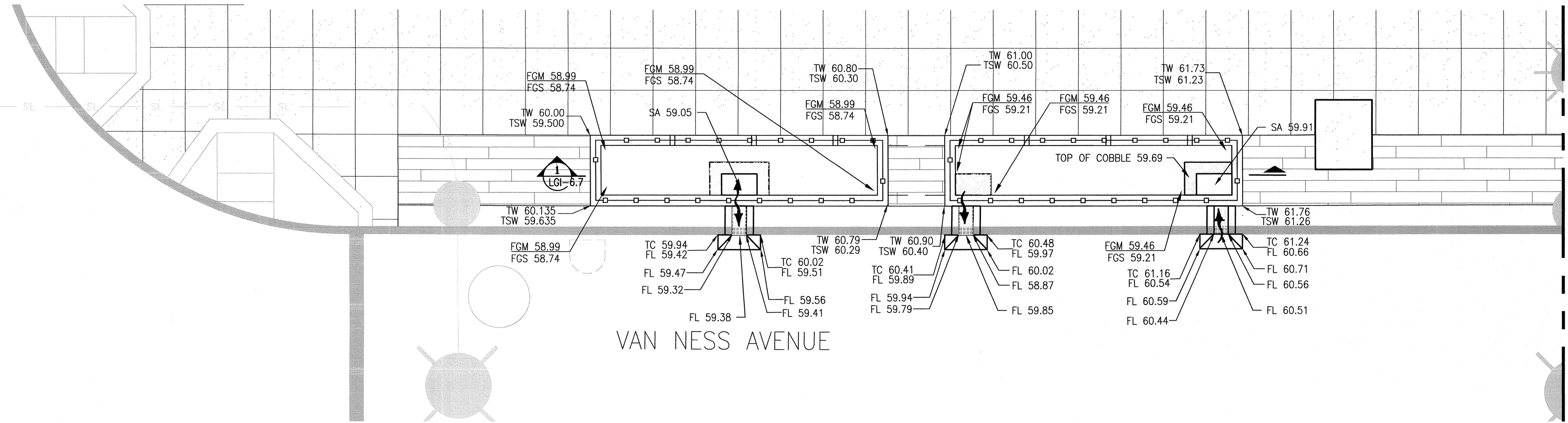
APPROVED: *[Signature]*
MANAGER

SHEET	PLAN NO. 102,823	DRAWING NO. LGI-3.1	REVISION NO. 0
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HYD JOB ORDER NO. 2380J



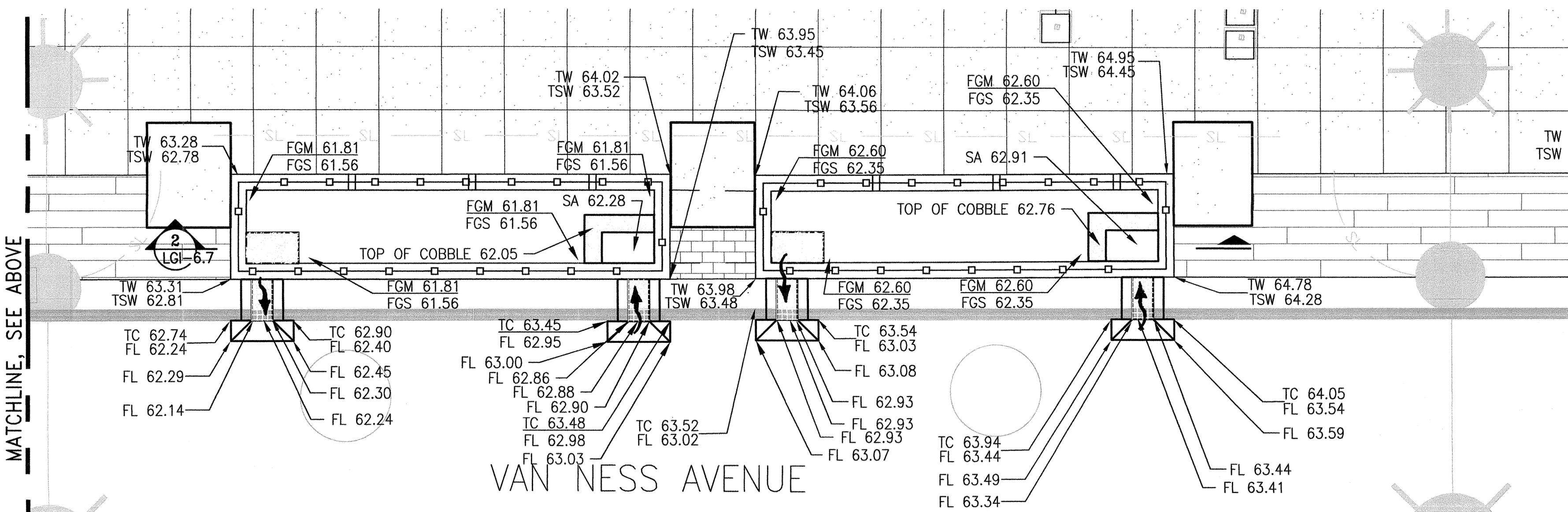
McALLISTER STREET



MATCHLINE, SEE BELOW

GI UNITS: 7 & 8, McALLISTER & VAN NESS

1

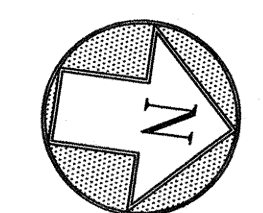
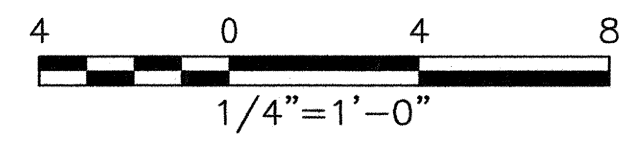


MATCHLINE, SEE ABOVE

GI UNITS: 9 & 10, McALLISTER & VAN NESS

2

NOTES:
1. FOR NOTES & LEGEND, SEE LGI-3.0



ELEVATION DATUM CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION				
SECTION MANAGER	DRAWN BJ/SP			
DEPUTY DIVISION MANAGER	DESIGNED KP/SH			
DIVISION MANAGER	CHECKED JD			
REVISIONS				
NO.	DATE	DESCRIPTION	BY	APPR'D

CONTRACT NO. 1289

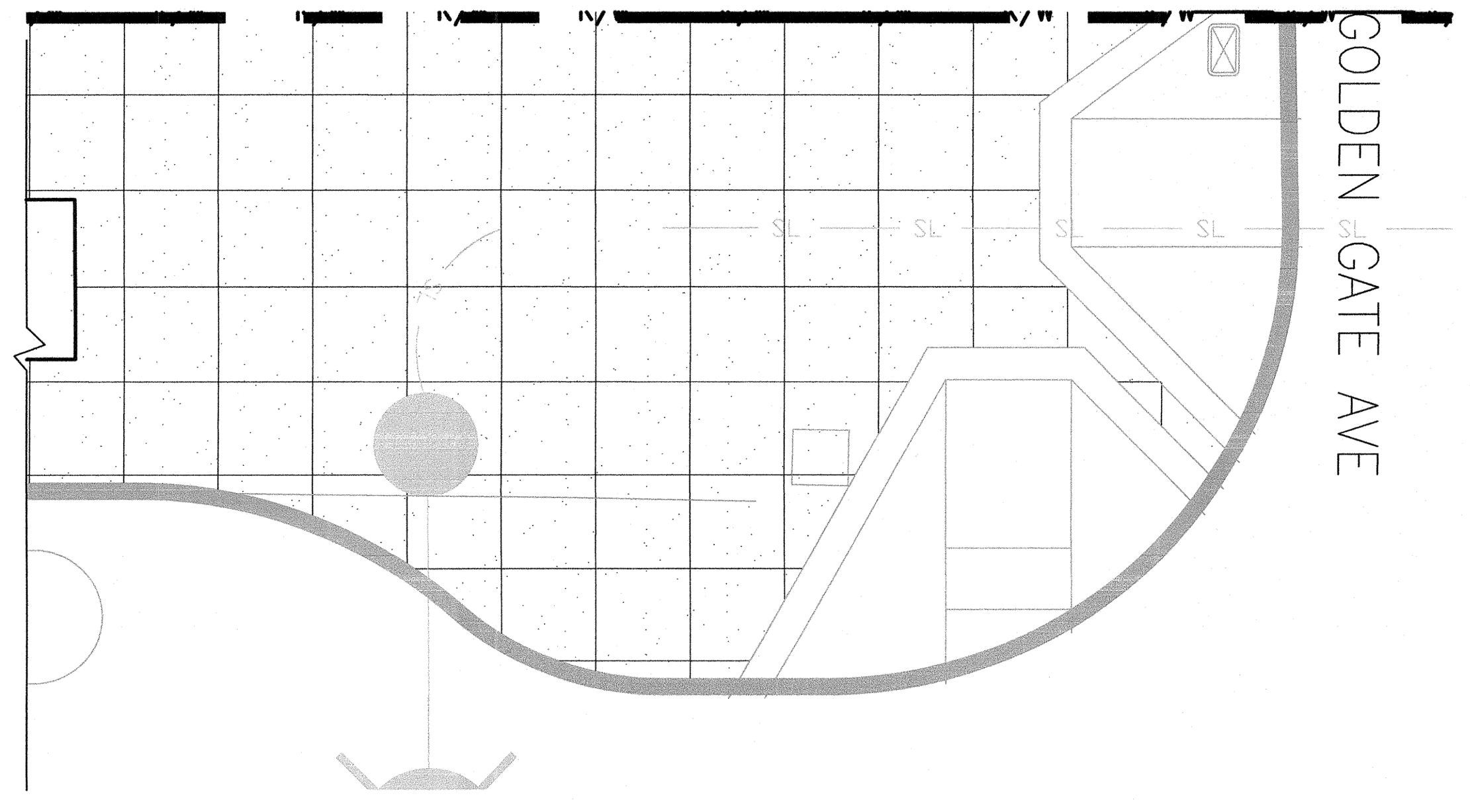
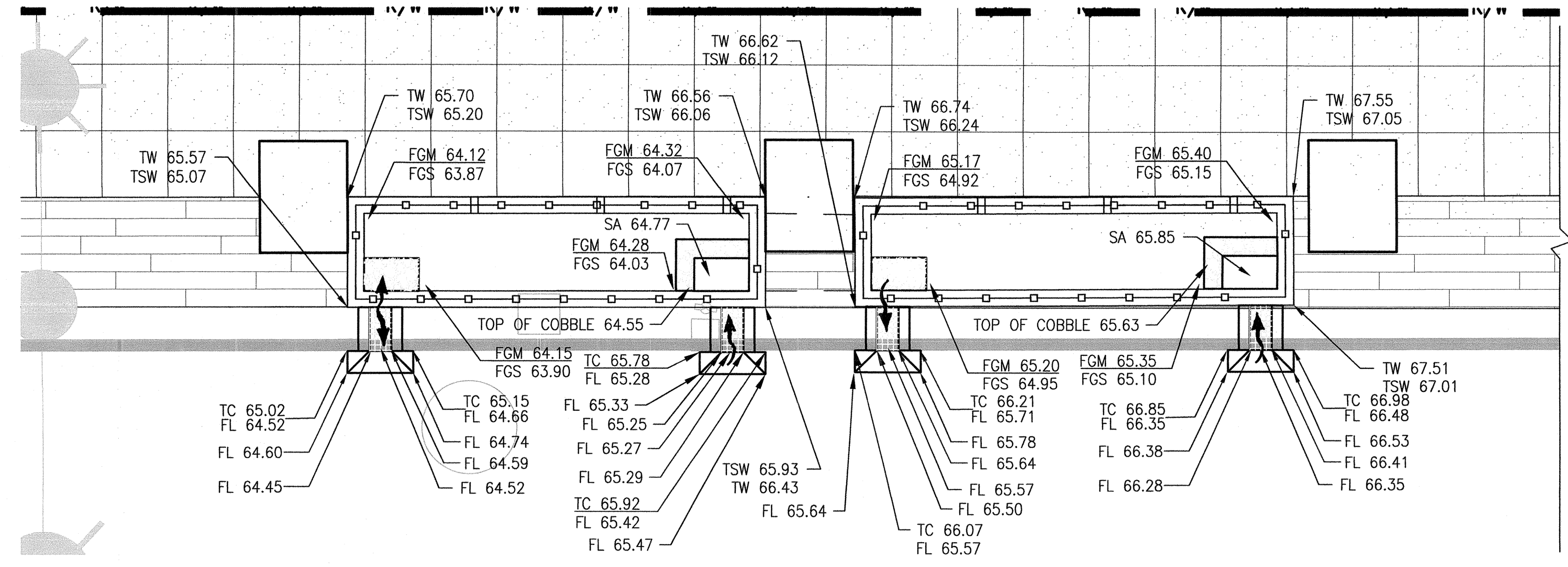
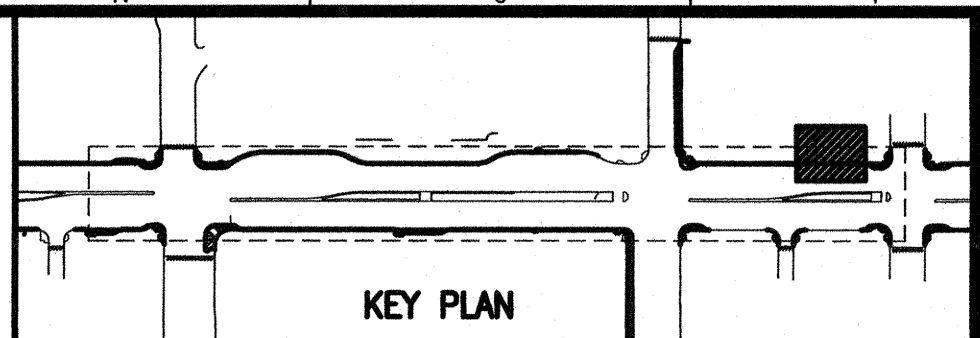
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE
GRADING PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	APPROVED		
MANAGER	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE		
NO.	DATE	DESCRIPTION	BY
PLAN NO.		DRAWING NO.	REVISION NO.
102,824		LG1-3.2	0

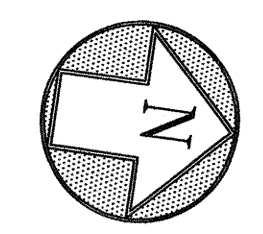
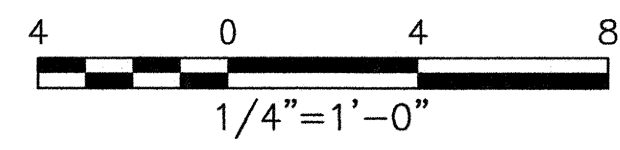
HYD JOB ORDER NO. 2380J



GI UNITS: 11 & 12, McALLISTER & VAN NESS

1

NOTES:
1. FOR NOTES & LEGEND, SEE LGI-3.0

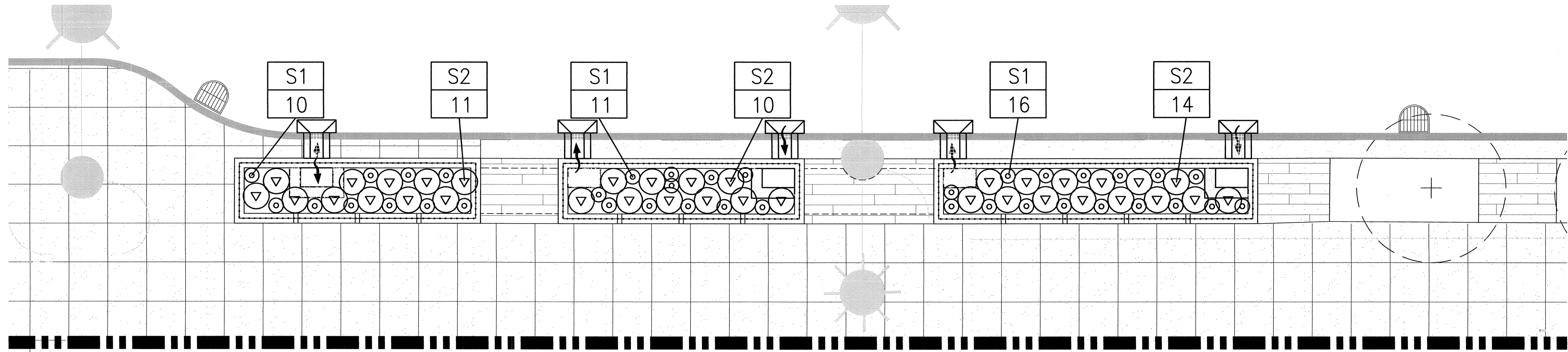
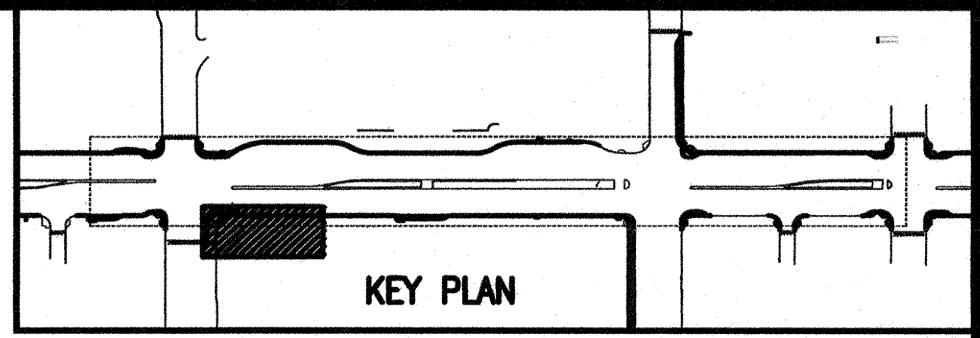


ELEVATION DATUM CITY



CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE DIVISION	
SECTION MANAGER	DRAWN BJ/SP
DEPUTY DIVISION MANAGER	DESIGNED KP/SH
DIVISION MANAGER	CHECKED JD
NO.	DATE
REVISIONS	

CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION ENGINEERING MANAGEMENT BUREAU	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
LANDSCAPE GREEN INFRASTRUCTURE GRADING PLAN	
SECTION MANAGER	CHECKED
DIVISION MANAGER	RECOMMENDED
APPROVED	APPROVED
MANAGER	SYSTEM GENERAL MANAGER WASTEWATER ENTERPRISE
PLAN NO. 102,825	DRAWING NO. LGI-3.3
SHEET	REVISION NO. 0



GI UNITS: 1-3, GROVE & VAN NESS

SCALE: 1/4" = 1'-0"

1

PLANTING LEGEND

SYMBOL	SYMBOL	NAME	SPACING	SIZE	QUANTITY
⊙	S1	IRIS LONGIPETALA LONG PETELED IRIS	AS SHOWN	1 GALLON	162
△	S2	LEYMUS CONDENTATUS 'CANYON PRINCE' 'CANYON PRINCE' WILD RYE	2' O.C.	5 GALLON	145

PLANTING NOTES

1. FINAL PLACEMENT OF PLANTS TO BE FIELD APPROVED BY CITY REPRESENTATIVE.
2. SEE SPECIFICATION 02950 FOR ADDITIONAL REQUIREMENTS.
3. PLANT LIST IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
4. CONTRACTOR SHALL REVIEW PLANT LOCATIONS WITH THE CITY REPRESENTATIVE PRIOR TO PLANTING.
5. THE CITY REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, OR DELETIONS IN THE PLANTING LAYOUT AS THE WORK PROGRESSES.
6. SEE SPECIFICATION, 02950: ALL PLANT MATERIAL SHALL BE INSPECTED PRIOR TO PLANTING. CONTRACTOR SHALL REVIEW ALL PLANT MATERIAL ON SITE WITH CITY REPRESENTATIVE AND INSTALL MATERIAL ONLY AFTER OBTAINING WRITTEN APPROVAL FROM THE CITY REPRESENTATIVE.

CONTRACT NO. 1289

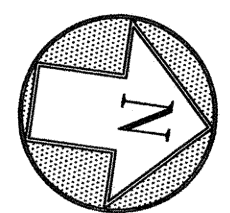
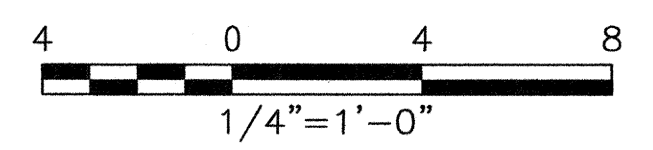
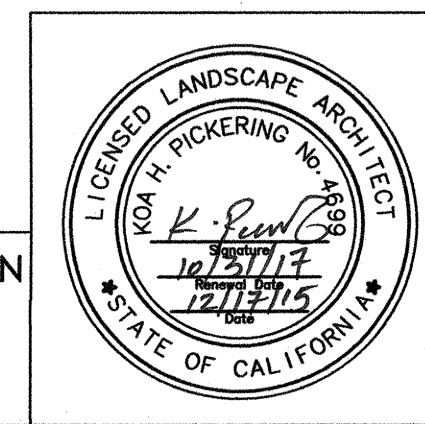
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

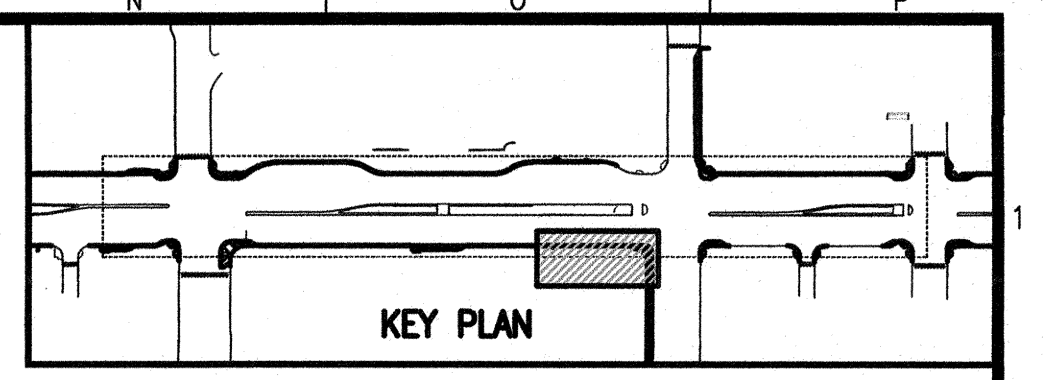
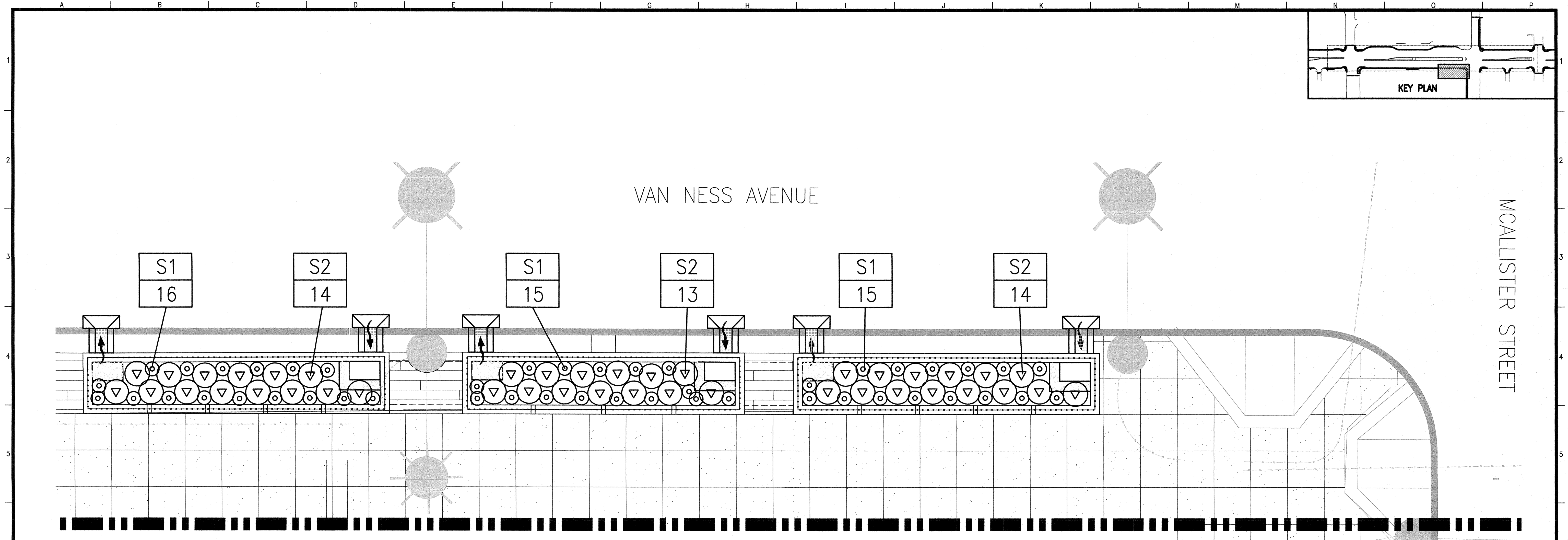
LANDSCAPE GREEN INFRASTRUCTURE
PLANTING PLAN

SECTION MANAGER	DRAWN	BJ/SP		
DEPUTY DIVISION MANAGER	DESIGNED	KP/SH		
DIVISION MANAGER	CHECKED	JD		
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	APPROVED		ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
MANAGER	PLAN NO.	DRAWING NO.	REVISION NO.
SHEET	102,826	LGI-4.0	0



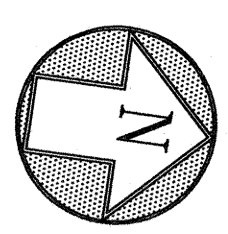
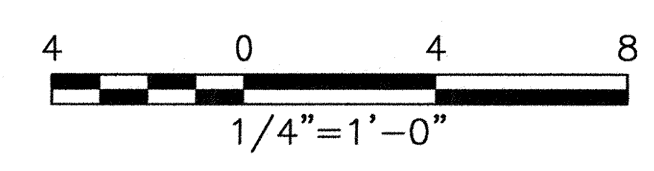
ELEVATION DATUM
CITY



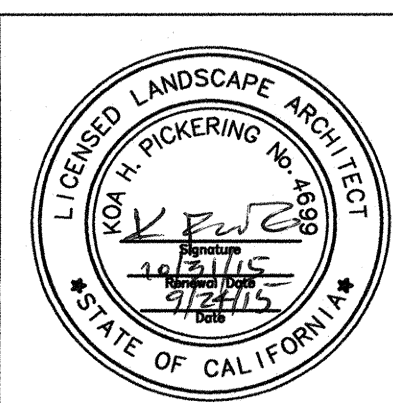
GI UNITS: 4-6, McALLISTER & VAN NESS

1

SEE SHEET LGI 4.0 FOR PLANT LEGEND & NOTES



ELEVATION DATUM CITY



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

SECTION MANAGER	2/15	DRAWN	Bj/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD/SH
NO.	DATE	DESCRIPTION	BY
REVISIONS			

CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

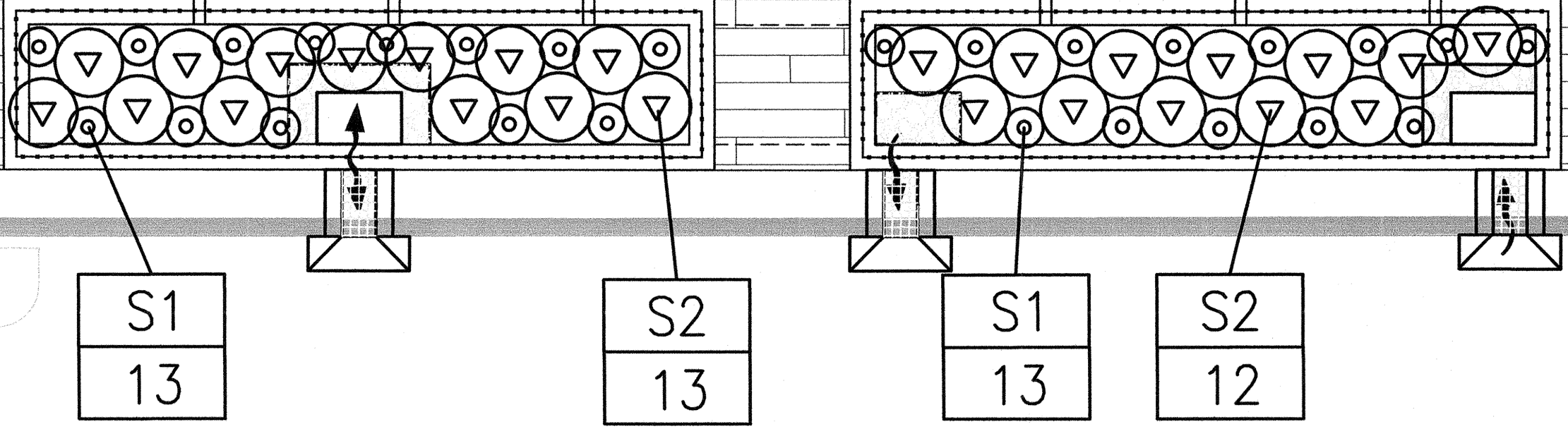
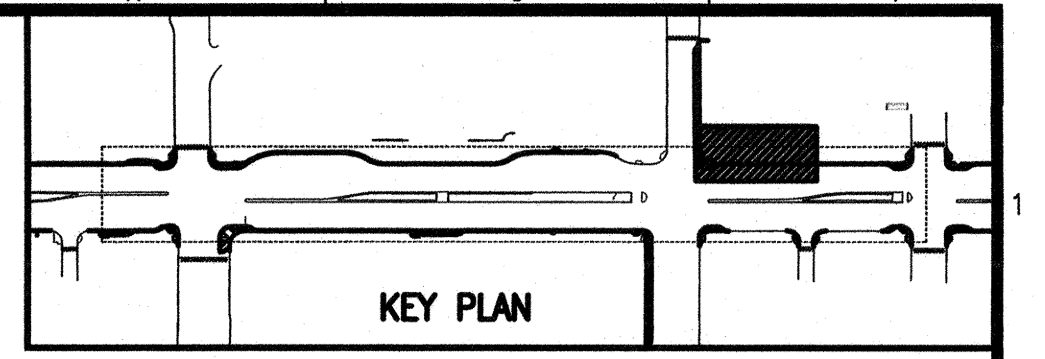
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE
PLANTING PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	MANAGER		APPROVED
		ASSISTANT GENERAL MANAGER	WASTEWATER ENTERPRISE
SHEET	102,827	DRAWING NO. LGI-4.1	REVISION NO. 0

MCALLISTER STREET

GI UNITS: 7 & 8



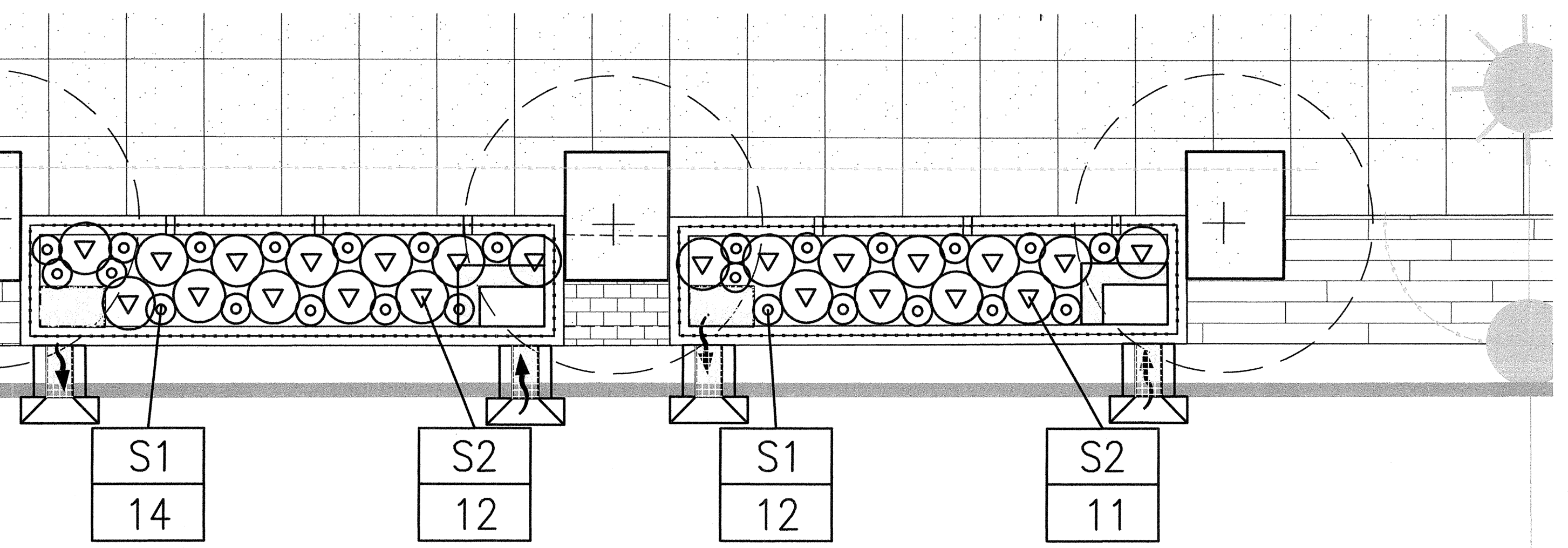
VAN NESS AVENUE

MATCHLINE, SEE BELOW

SCALE: 1/4" = 1'-0" ①

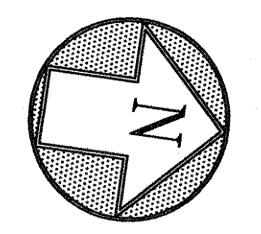
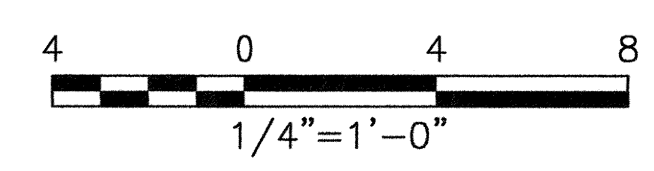
MATCHLINE, SEE ABOVE

GI UNITS: 9 & 10

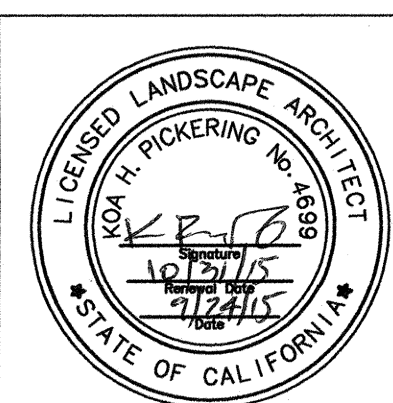


VAN NESS AVENUE

SCALE: 1/4" = 1'-0" ②



ELEVATION DATUM CITY



SEE SHEET LGI 4.0 FOR PLANT LEGEND & NOTES

CONTRACT NO. 1289

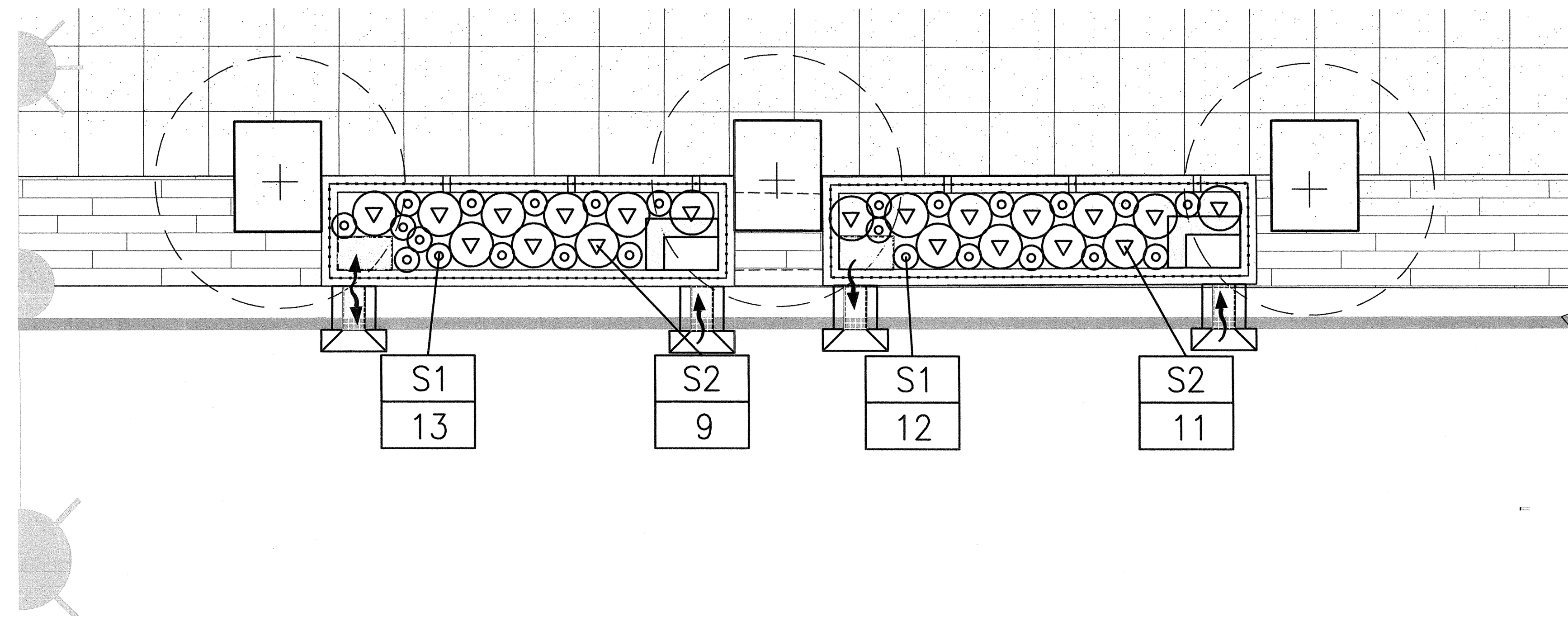
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE
PLANTING PLAN

SECTION MANAGER	9/15	DRAWN	Bj/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH
DIVISION MANAGER		CHECKED	JD SA
APPROVED		APPROVED	
NO. DATE		DESCRIPTION	BY APPR'D
REVISIONS			

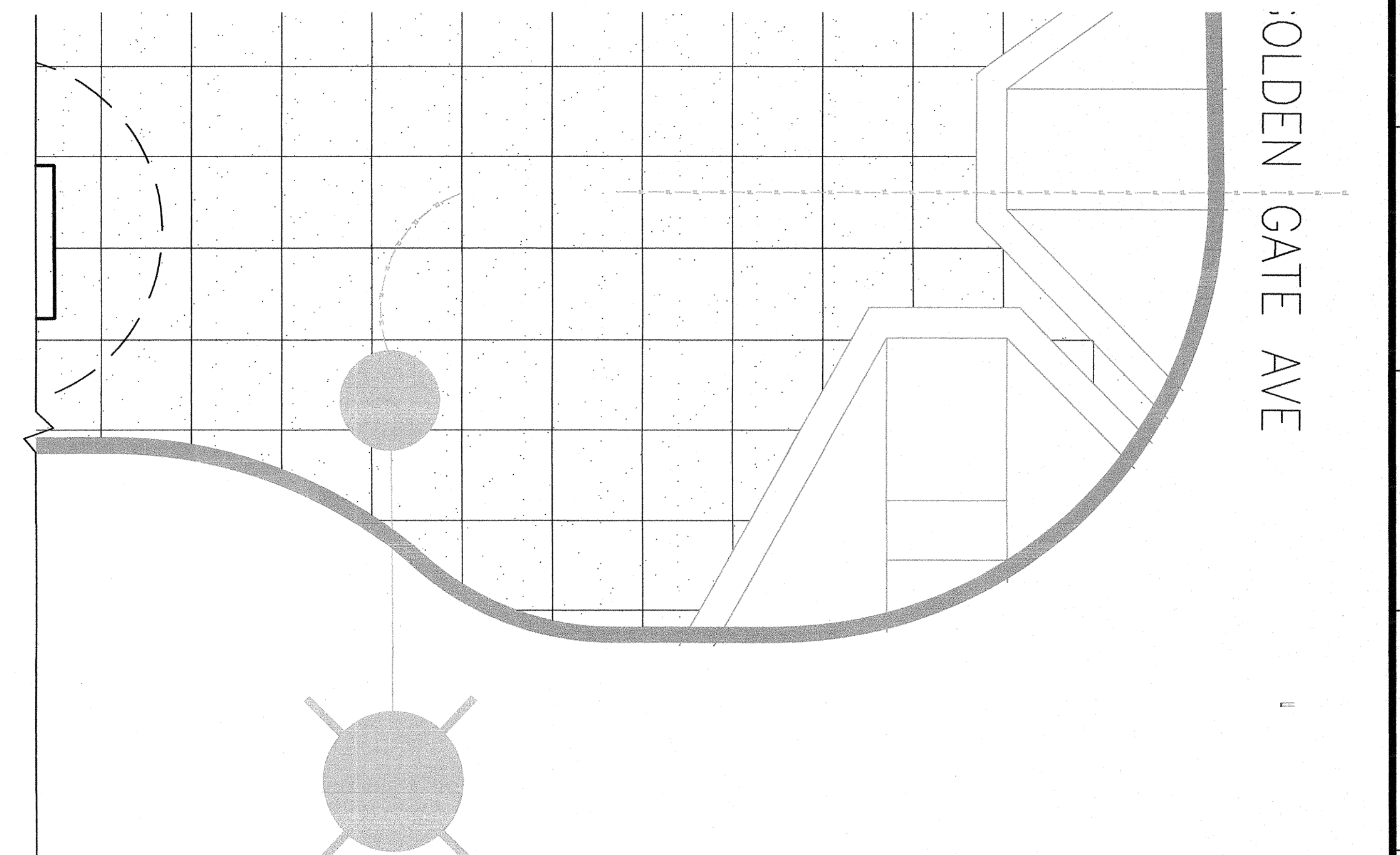
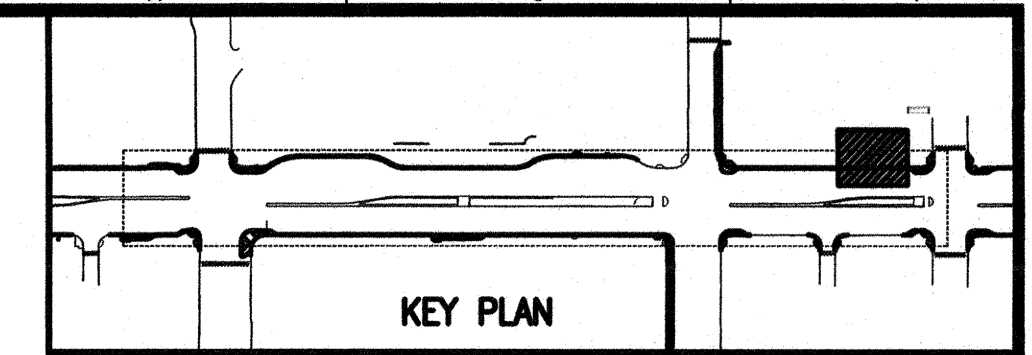
SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED		APPROVED	
MANAGER		ASSISTANT GENERAL MANAGER	
SHEET		PLAN NO. 102,828	DRAWING NO. LGI-4.2
			REVISION NO. 0



GI UNITS: 11 & 12

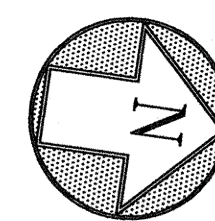
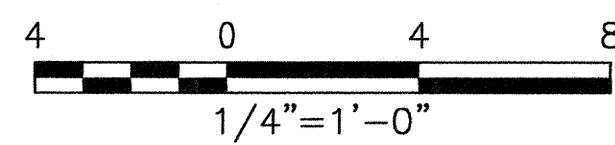
SCALE: 1/4" = 1'-0"

1

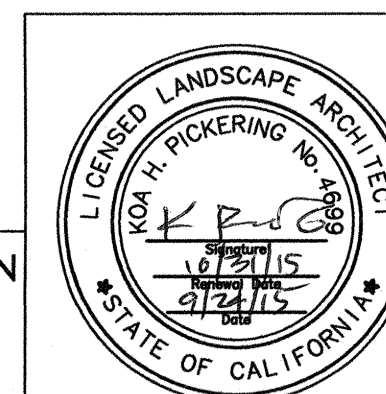


OLDEN GATE AVE

SEE SHEET LGI 4.0 FOR PLANT LEGEND & NOTES



ELEVATION DATUM CITY



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

SECTION MANAGER	DESIGNED	DRAWN
DEPUTY DIVISION MANAGER	DESIGNED	DRAWN
DIVISION MANAGER	CHECKED	APPR'D
NO.	DATE	DESCRIPTION
		REVISIONS

CONTRACT NO. 1289

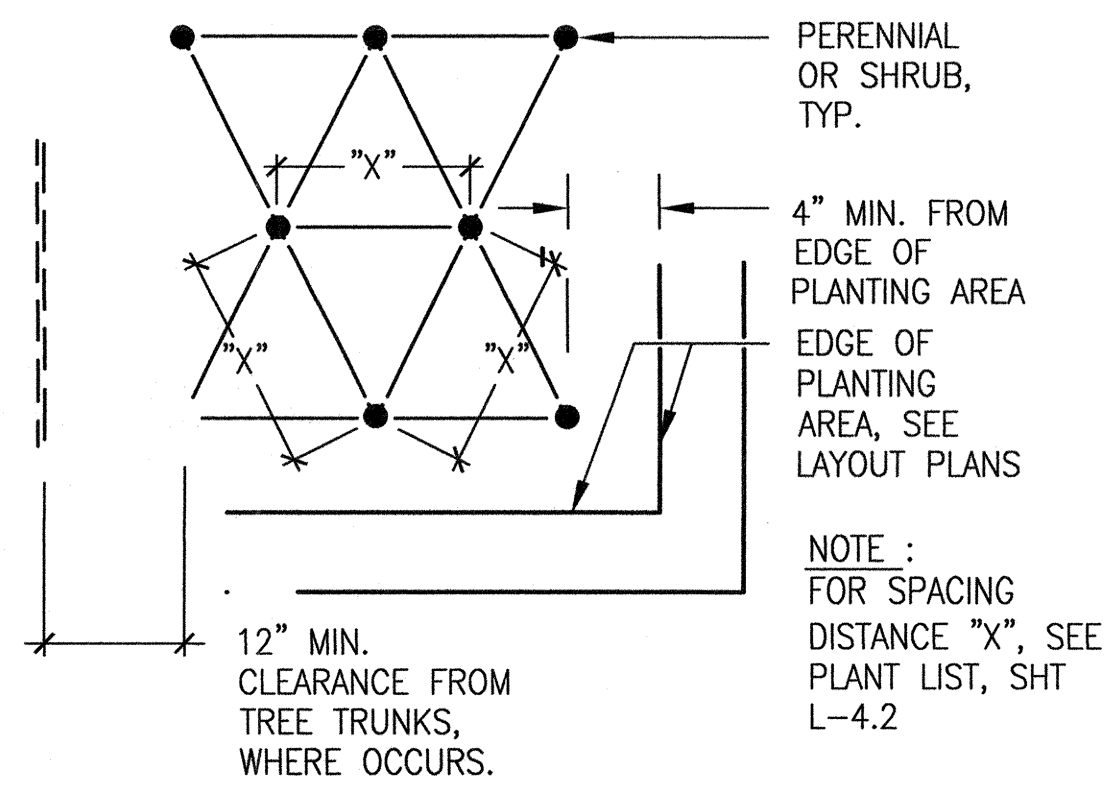
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE
PLANTING PLAN

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	APPROVED	MANAGER	ASSISTANT GENERAL MANAGER WASTEWATER ENTERPRISE
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
	102,829	LGI-4.3	0

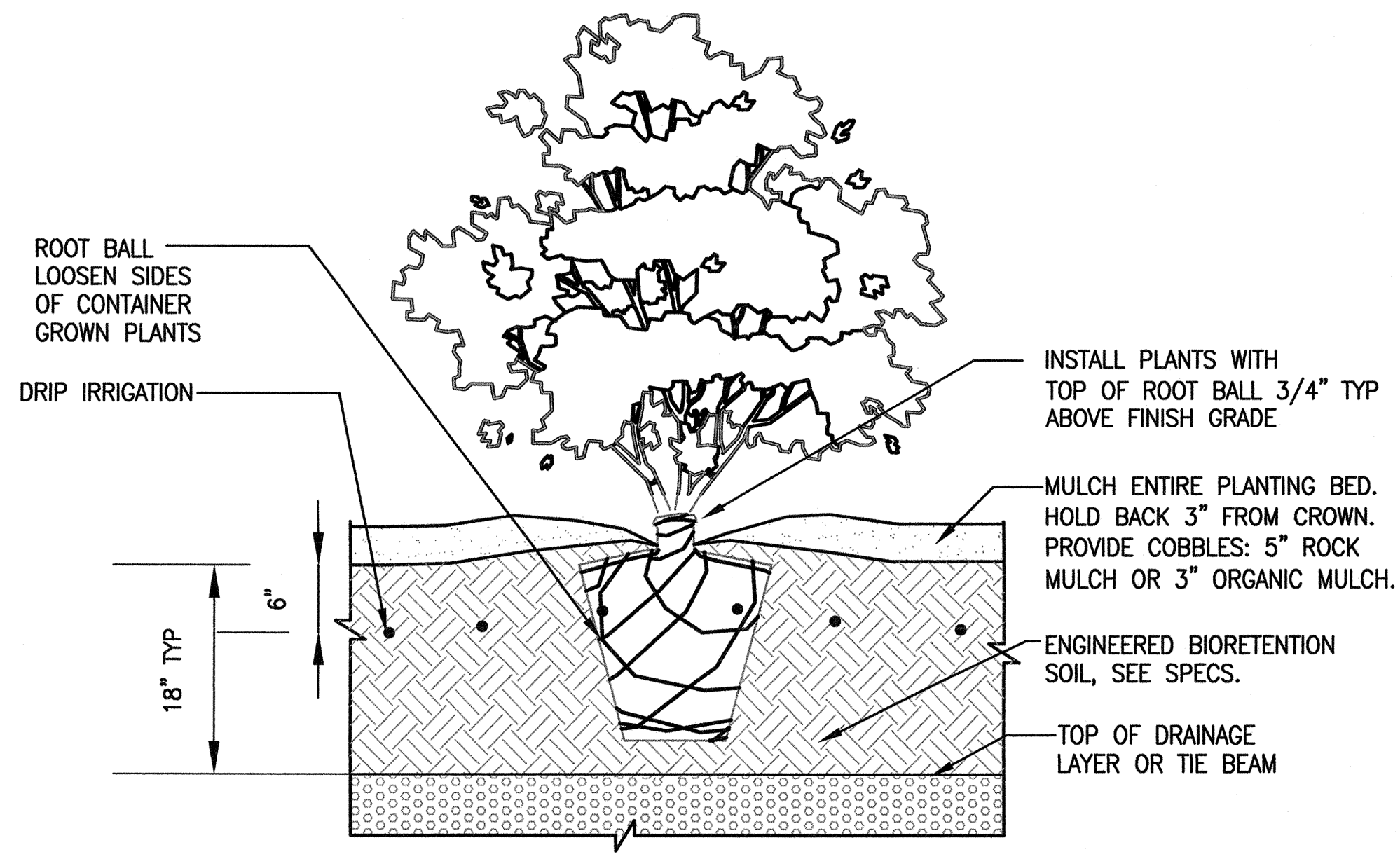
HYD JOB ORDER NO. 2380J



TRIANGULAR PLANTING

1

NOT TO SCALE



SHRUB PLANTING

2

NOT TO SCALE

CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
ENGINEERING MANAGEMENT BUREAU

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

LANDSCAPE GREEN INFRASTRUCTURE
PLANTING DETAILS

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

SECTION MANAGER	715	DRAWN	BJ/SP
DEPUTY DIVISION MANAGER		DESIGNED	KP/SH <i>cm</i>
DIVISION MANAGER		CHECKED	JD <i>58</i>
NO. DATE		DESCRIPTION	
BY		APPR'D	
REVISIONS			

SECTION MANAGER	CHECKED	DRAWN	SCALE
DIVISION MANAGER	RECOMMENDED	DESIGNED	DATE
APPROVED	APPROVED		
MANAGER	PLANNING	DESIGNED	REVISION NO.
SHEET		102,830 LGI-4.4	0

ELEVATION DATUM
CITY

