

PLANS

DESIGNED BY BRENDAN HASTIE

CHECKED BY CARL HEWINGS

DELINEATED BY BRIAN LEDGERWOOD

REGISTERED PROFESSIONAL ENGINEER

No. 33037

Exp. 8/30/08

CIVIL

STATE OF CALIFORNIA

RICK ENGINEERING

5620 FRIARS RD.

SAN DIEGO, CA 92110

619-291-0707

1/15/05

DATE

INDEX OF SHEETS

- | | |
|-----|---|
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REGIONAL STANDARD DRAWINGS, April 2003

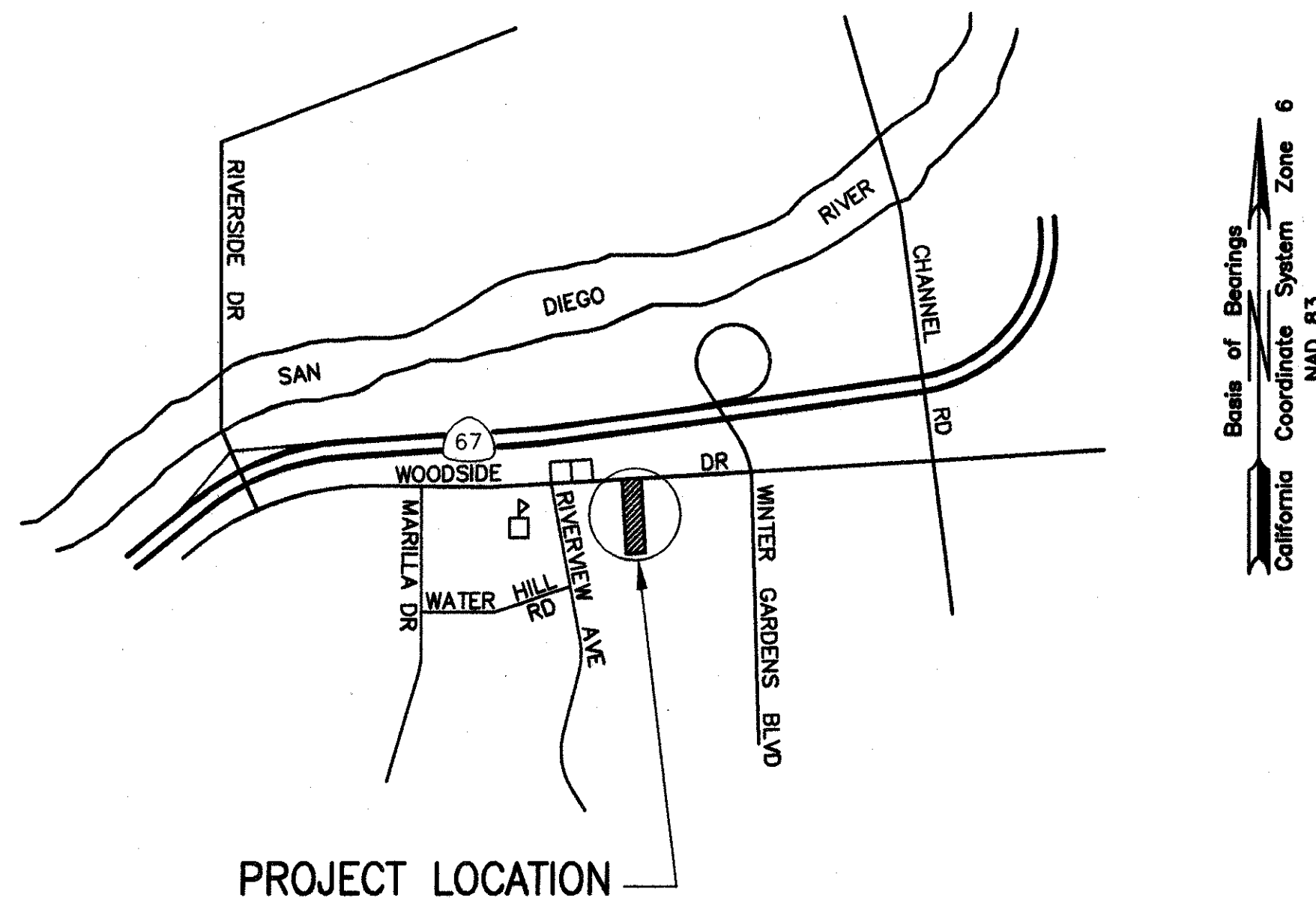
CONCRETE SILL & RIP-RAP PAD D-40

WING TYPE HEADWALL D-34

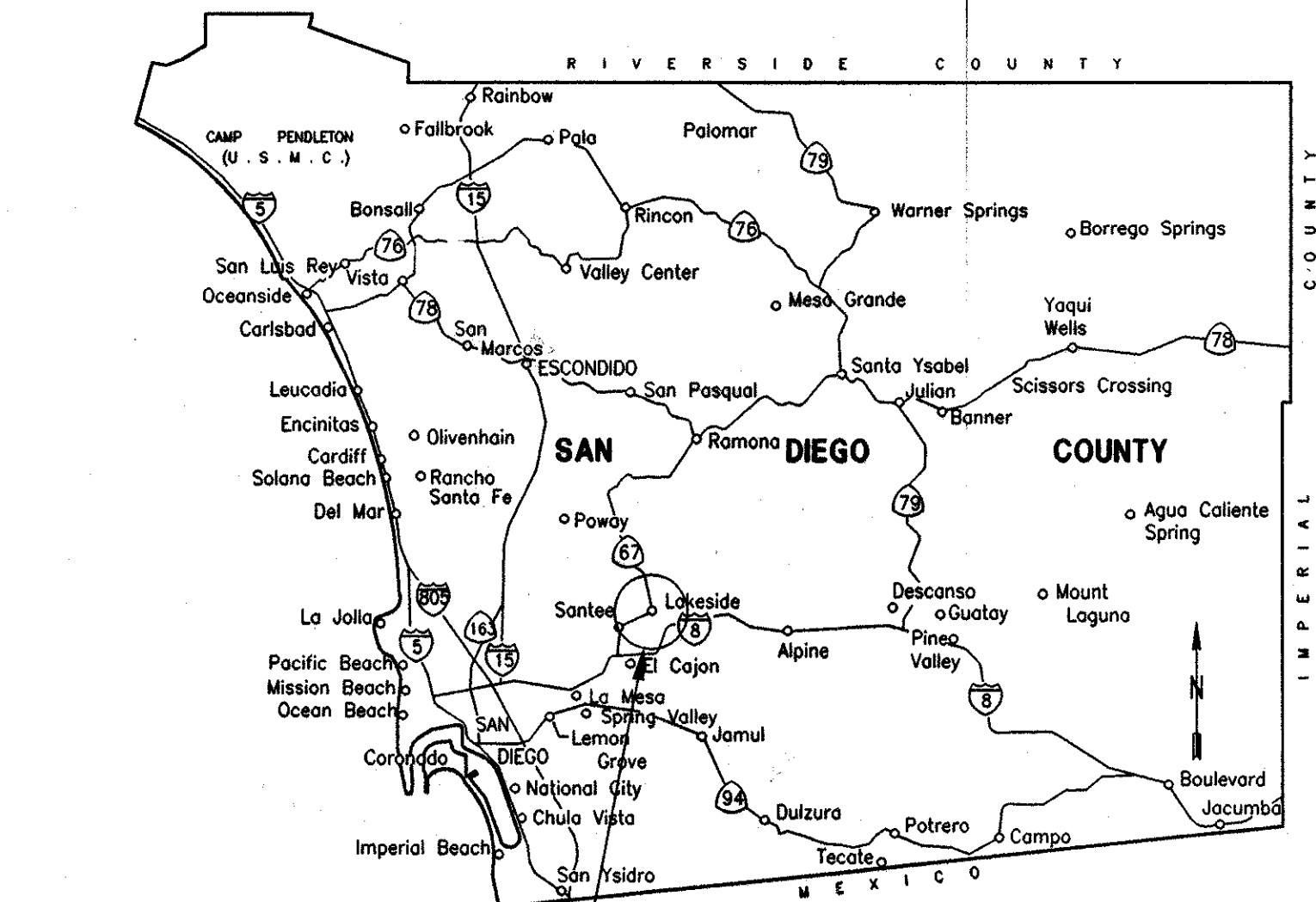
CHAINLINK FENCE AND GATE M-5, M-6

COUNTY OF SAN DIEGO, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PLANS FOR CONSTRUCTION OF WOODSIDE AVENUE (R.S. 331) WATER QUALITY BASIN In The Vicinity of Lakeside



VICINITY MAP
NO SCALE



PROJECT LOCATION

GENERAL NOTES:

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND UTILITY FACILITIES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO PERFORMING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE. FORTY-EIGHT HOURS BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND FACILITIES BY CONTACTING UNDERGROUND SERVICE ALERT AT TELEPHONE 1-800-422-4133.

OPERATORS OF GRAVITY SEWER SYSTEMS AND CERTAIN OTHER UTILITIES, WHO ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT, MUST BE INDIVIDUALLY CONTACTED.

RECORD DRAWINGS
APPROVED <i>[Signature]</i>
DATE 01/03/05

S.D.P. 213



RECOMMENDED BY: <i>[Signature]</i>	DATE 4/19/05
APPROVED BY: <i>[Signature]</i>	DATE 4/19/05
DOUGLAS M. ISBELL, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE	COORDINATE INDEX
				250 N. 1785 E.
				CONST. COMPL 12/30/05
				FIELD REVISIONS

WOODSIDE AVENUE WATER QUALITY BASIN In the Vicinity of Lakeside
TITLE SHEET

SCALE: HOR. N/A	VERT. N/A
W.A. YF1531	R.S. 331
SHEET 1 OF 13	

HORIZONTAL CONTROL

ALL BEARINGS, DISTANCES, STATIONS AND COORDINATES ARE GRID AND BASED ON THE NORTH AMERICAN DATUM OF 1983(1991.35) CALIFORNIA COORDINATE SYSTEM, ZONE 6. AS DEFINED BY SECTIONS 8801 THROUGH 8819 OF THE CALIFORNIA PUBLIC RESOURCES CODE. CONTROL IS BASED ON FIRST ORDER CONTROL STATIONS 'FIT-2' & 'GF 25-92' PER ROS 16652.

NORTHING = 1891719.677
EASTING = 6351319.690
EL = 384.19
 $\lambda = 0^{\circ}22'35.01''$

$$\text{GROUND DISTANCE} = \frac{\text{GRID DISTANCE}}{\text{COMBINATION FACTOR}}$$

BENCHMARKS

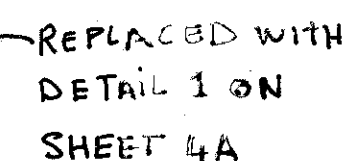
DESCRIPTION: BRASS DISK SET IN CONCRETE
BELOW SURFACE

LOCATION: C/L MON ON WINTERGARDENS BLVD
APPROX. 2674 FT. N'LY OF INT. OF
GAY RIO DRIVE

DATUM: VERTICAL DATUM IS NGVD 1929.



SCALE	HORZ	1" = 40'
	VERT	1" = 4'



REPLACED WITH
DETAIL 2 ON SHEET 4A



SECTION A-A
NTS



SDP 2B

Basis of Bearings
California
Coordinate System Zone 6
NAD 83

1. USE PORTION OF EXISTING CHANNEL REMOVAL

The diagram shows a circle divided into four quadrants. The top-left quadrant contains the number '1', the top-right contains '2', the bottom-left contains '4', and the bottom-right contains '5'. An arrow points from the text 'DETAIL NUMBER' to the number '1' in the top-left quadrant. Another arrow points from the text 'SHEET DETAIL FOUND' to the number '5' in the bottom-right quadrant. A third arrow points from the text 'PLAN SHEET REFERENCED' to the number '4' in the bottom-left quadrant.

5555 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RICK
ENGINEERING COMPANY
San Diego

**5620 FRIARS ROAD
SAN DIEGO, CA 92110
619.291.0707
(FAX) 619.291.4165**

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Riverside Sacramento Orange Phoenix Tucson

REVISIONS		BY	APPROVED	DATE	COORDINATE INDEX
Δ	RECORD DRAWING REVISIONS	SS		10-31-05	250 N. 1785 E.
					CONST. COMPL.
					FIELD REVISIONS

WOODSIDE AVENUE
WATER QUALITY BASIN
In the Vicinity of Lakeside

TYPICAL SECTIONS / ABBREVIATIONS

SCALE: HOR. N/A VERT. N/A
W.A. YF1531 R.S. 331

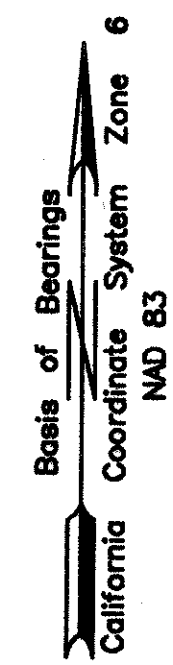
SHEET 2 OF 13



PLANS	BY	DATE
DESIGNED	BRENDAN HASTIE	
CHECKED	CARL HEWINGS	
DELINEATED	BRIAN LEDGERWOOD	

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SAN DIEGO, CA 92110
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4/16/06
REGISTERED CIVIL ENGINEER

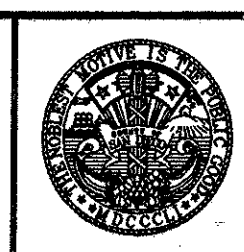
- NOTE:
- ③ EXISTING 5' DRAINAGE DITCH EASEMENT TO COUNTY OF SAN DIEGO, BK. 831, P.191, O.R. REC. SEPT. 29, 1983
 - ⑤ EXISTING 15' DRAINAGE CHANNEL EASEMENT TO SAN DIEGO COUNTY FLOOD CONTROL DISTRICT F/P 86-494409, O.R. REC. OCT 30, 1986
 - ③ EXISTING 35' EASEMENT FOR CHANNEL MAINTENANCE TO WOODSIDE LTD. F/P 83-397266, O.P. REC. NOV. 2, 1983
 - ④ EXISTING 15' DRAINAGE EASEMENT TO COUNTY OF SAN DIEGO PER DOC NO 1997-0475014 OR REC. SEPT. 25, 1997



SDP213

W:\14804\14804-B-Woodside-Avenue\County\CS100\CON\DWG 04/15/05 01:09:46 PM.dwg

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5555 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295





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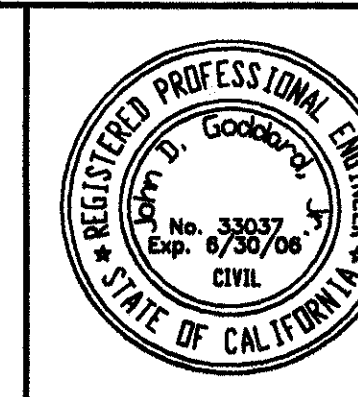
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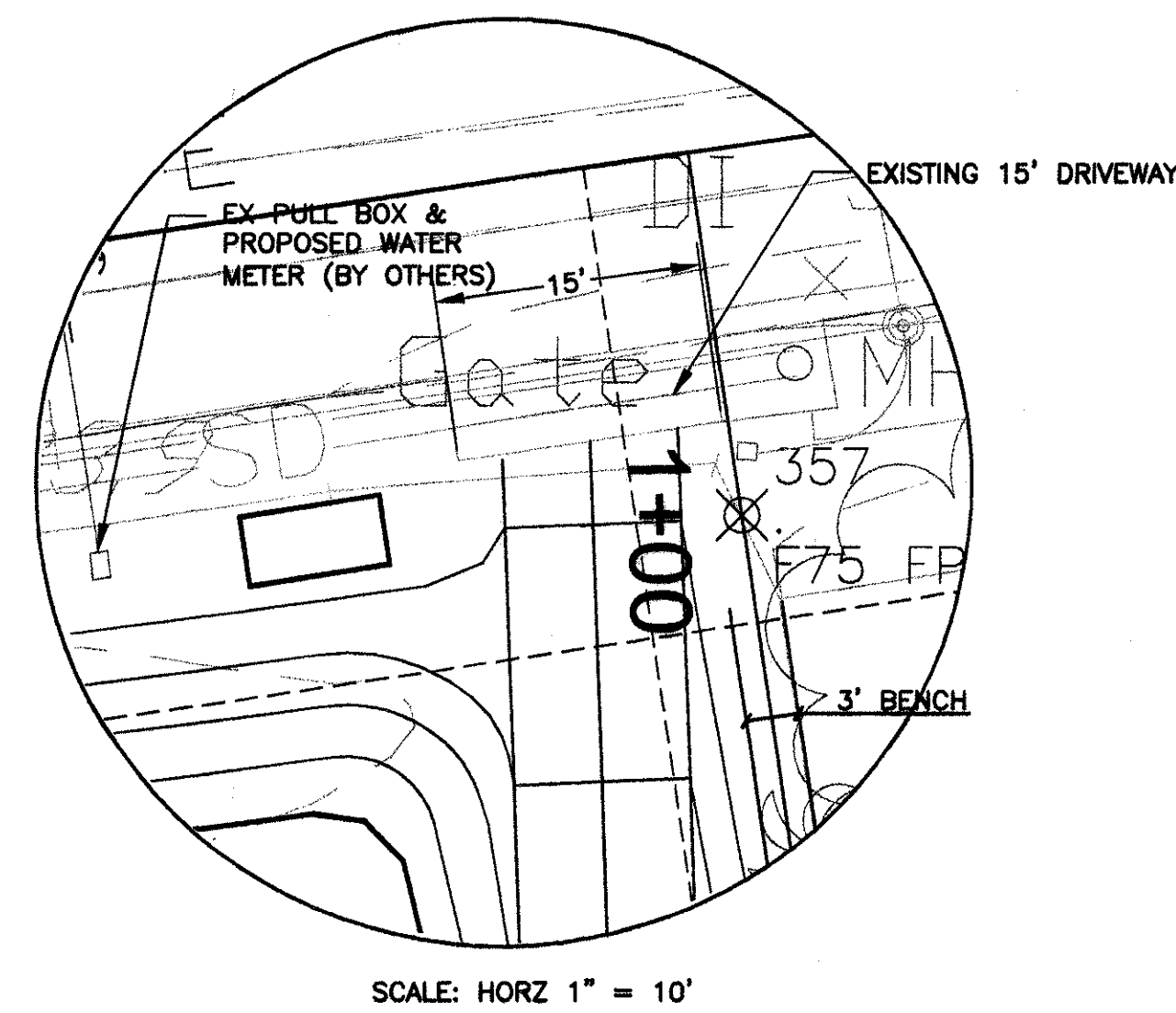
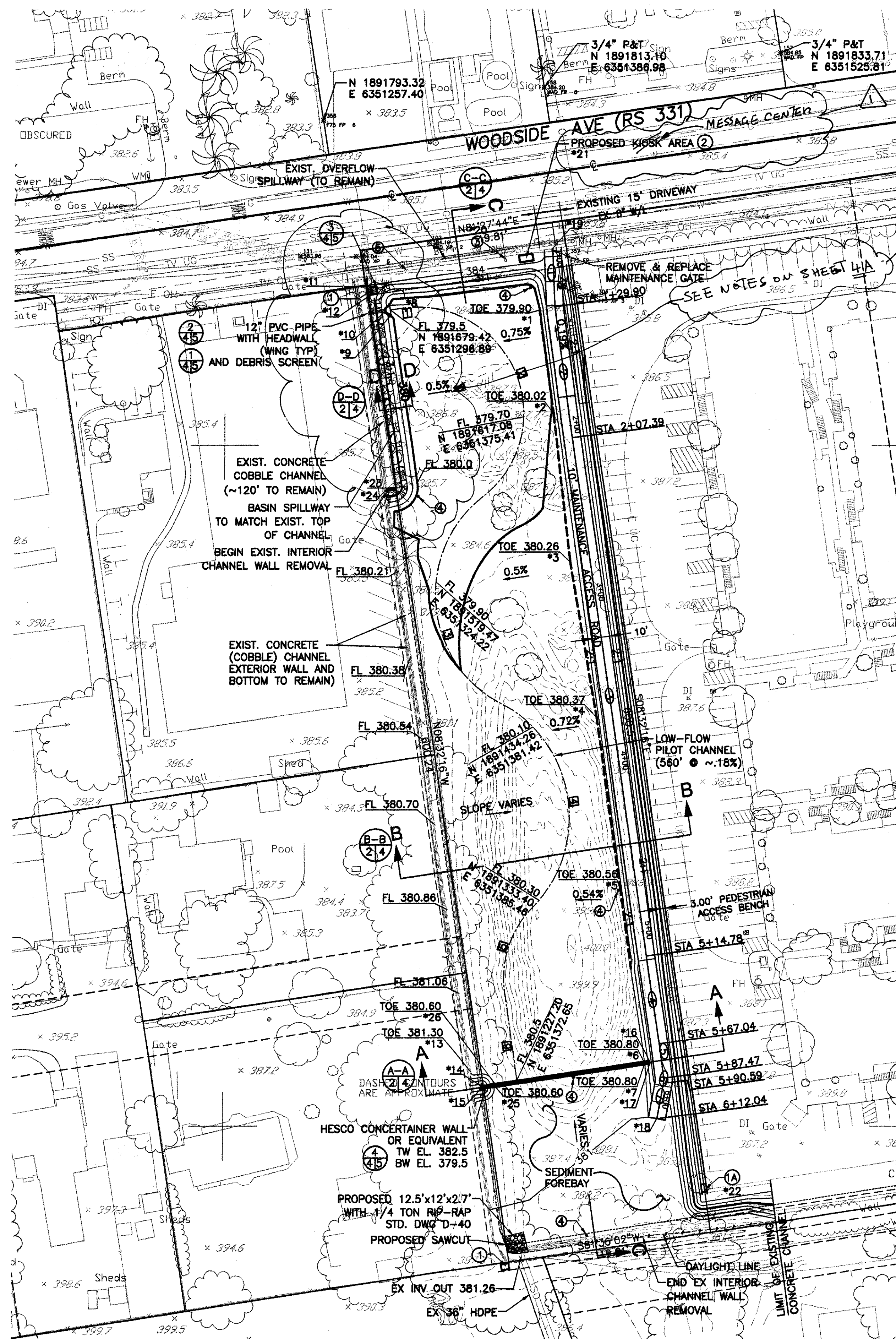
COORDINATE INDEX
250 N 1785 E
CONST. COMPL.
FIELD REVISIONS

WOODSIDE AVENUE
WATER QUALITY BASIN
In the Vicinity of Lakeside
EXISTING CONDITIONS / CONSTRAINTS

SCALE: HOR. 1"=40' VERT. N/A
W.A. YF1531 R.S. 331
SHEET 3 OF 13



PLANS	BY	DATE
DESIGNED	BRENDAN HASTIE	
CHECKED	CARL HEWINGS	
DELETED	BRIAN LEDGERWOOD	
RICK ENGINEERING 5620 FRIARS RD. SAN DIEGO, CA 92110 619-291-0707 REGISTERED CIVIL ENGINEER		



NOTES:

NO WORK HAVING POTENTIAL TO CAUSE WATER POLLUTION, AS DETERMINED BY THE ENGINEER, SHALL BE PERFORMED UNTIL THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN SUBMITTED TO THE ENGINEER BY THE CONTRACTOR, AND APPROVED

THE CONTRACTOR SHALL CONSIDER OTHER MEASURES, AS NECESSARY, TO SUPPLEMENT THE TEMPORARY CONTROL MEASURES SHOWN ON THESE PLANS, IN ORDER TO MEET THE POLLUTION CONTROL OBJECTIVES OF THE SWPPP

THE TOTAL AREA OF SOIL DISTURBANCE FOR THIS PROJECT IS 1.6 ACRES

- CONSTRUCTION NOTE:
- CONSTRUCT 3.5' x 4.5' CONCRETE PAD (4" THICK) FOR SAMPLING BOX.
 - CONSTRUCT 2' x 4.5' CONCRETE PAD (4" THICK) FOR SAMPLING BOX.
 - CONTRACTOR TO PROVIDE AND INSTALL PREMANUFACTURED KIOSK BY BARCO PRODUCTS: MODEL KMCP3, SINGLE SIDED, DESERT TAN COLOR (OR EQUAL). DESIGNATED 4" SLAB AREA IS SHOWN AS 4' x 8'. LOCATE FACE OF SLAB ON FUTURE R/W
 - EXISTING 1" WATER SERVICE TO REMAIN AND 1" WATER METER TO BE INSTALLED BY OTHERS
 - CONTRACTOR TO INSTALL SEDIMENT DEPTH MARKERS, MARKERS PER DETAIL
 - CONTRACTOR TO REMOVE EX FENCE AND GATE AND REPLACE WITH NEW VINYL COATED CHAIN LINK FENCE AND GATE PER STD DWG M-5, M-6. NEW FENCE AND GATE TO BE PLACED ON FUTURE R/W

10' MAINTENANCE ACCESS ROAD CENTERLINE DATA				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
1	S02°10'04"E		34.63'	
2	S07°44'19"E		77.77'	
3	S08°20'13"E		307.39'	
4	S08°32'33"E		52.26'	
5	S07°34'05"E		27.42'	
6	Δ=17°51'23"	10.00'	3.12'	
7	S10°17'18"W		21.45'	

FLOWLINE DATA				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
1	S82°27'29"W		8.79'	
2	Δ=148°39'45"	62.33'	161.73'	
3	Δ=115°36'37"	73.00'	147.30'	
4	Δ=106°28'54"	74.58'	138.61'	
5	Δ=54°14'23"	59.64'	56.46'	
6	N07°51'49"W		49.47'	

NO.	NORTHING	EASTING	REMARKS
*1	N 1891679.37	E 6351384.54	TOE
*2	N 1891619.46	E 6351392.96	TOE
*3	N 1891531.02	E 6351403.04	TOE
*4	N 1891439.80	E 6351418.79	TOE
*5	N 1891340.38	E 6351433.07	TOE
*6	N 1891238.31	E 6351447.21	TOE
*7	N 1891236.26	E 6351447.36	TOE
*8	N 1891682.05	E 6351296.51	WING WALL
*9	N 1891676.61	E 6351297.29	WING WALL
*10	N 1891678.96	E 6351294.29	12" PVC PIPE INVERT
*11	N 1891688.69	E 6351285.34	SAMPLING PAD
*12	N 1891688.69	E 6351285.94	SAMPLING PAD
*13	N 1891232.05	E 6351345.80	TOE
*14	N 1891223.91	E 6351351.46	NW CORNER OF HESCO WALL
*15	N 1891222.13	E 6351351.73	SW CORNER OF HESCO WALL
*16	N 1891238.81	E 6351450.58	NE CORNER OF HESCO WALL
*17	N 1891237.02	E 6351450.82	SE CORNER OF HESCO WALL
*18	N 1891204.40	E 6351455.09	END OF MAINTENANCE ACCESS ROAD
*19	N 1891716.07	E 6351392.23	BEGIN OF MAINTENANCE ACCESS ROAD
*20	N 1891709.04	E 6351364.44	EXISTING WATER SERVICE
*21	N 1891710.47	E 6351376.58	KIOSK
*22	N 1891164.12	E 6351482.87	SAMPLING PAD
*23	N 1891574.84	E 6351299.13	BEGIN EXISTING INTERIOR CHANNEL WALL REMOVAL
*24	N 1891574.26	E 6351295.22	BEGIN EXISTING INTERIOR CHANNEL WALL REMOVAL
*25	N 1891223.39	E 6351360.10	TOE
*26	N 1891225.17	E 6351359.84	TOE

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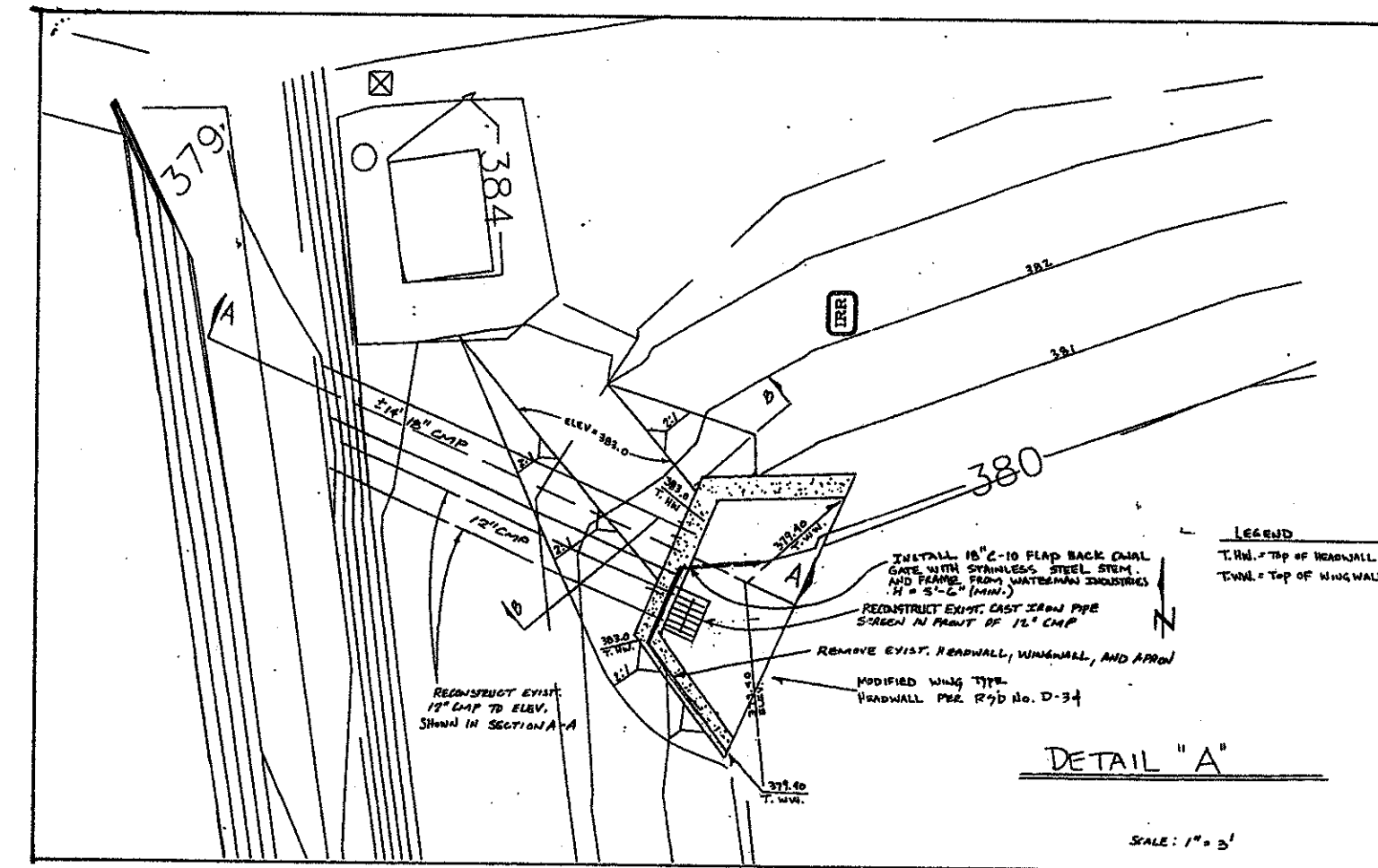
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RECORD DRAWING REVISIONS	SS		10-21-05	250 N 1785 E
				CONST. COMPL.
				FIELD REVISIONS

WOODSIDE AVENUE
WATER QUALITY BASIN
In the Vicinity of Lakeside
GRADING PLAN

SCALE: HOR. 1"=40' VERT. N/A	W.A. YF1531	R.S. 331
SHEET 13		



TECHNICAL DRAWING OF CANAL SECTION.

Top View (Plan View):

- Labels include: SEE DETAIL "A" ON REVERSED HIGHWALL AND PILES, REVERSED CHAN. CHANNEL BOTTOM, 1000, 1020, 1030.
- A small structure is shown on the left side of the canal.

Bottom View (Cross Section):

- Elevations: 978, 979, 980, 981, 1000, 1020, 1030.
- Slopes indicated: 1:1, 1:1.5, 1:2.
- Labels include: REVERSED CHANNEL RAIL CUTS, OVER CHANNEL PLAIN LAND, 1:1, 1:1.5, 1:2.
- Note at bottom right: HORIZ. 1" = 10' VERT. 1" = 1'

AS BUILTS CHANGE ORDER #2
BARTON SWITZER, RESIDENT ENGINEER
12/22/05

10' MAINTENANCE ACCESS ROAD CENTERLINE DATA				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
①	S02°10'04"E		34.63'	
②	S07°44'19"E		77.77'	
③	S08°20'13"E		307.39'	
④	S08°32'33"E		52.26'	
⑤	S07°34'05"E		27.42'	
⑥	$\Delta = 17^{\circ}51'23''$	10.00'	3.12'	
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NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
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14	Δ=106°28'54"	74.58'	138.61'	
15	Δ=54°14'23"	59.64'	56.46'	
16	N07°51'49"W		49.47'	

SDP 213

SHEET 4A OF 13

PLANS

DESIGNED

CHECKED

DELINEATED

BY

BRENDAN HASTIE

CARL HEWINGS

BRIAN LEDGERWOOD

DATE

REGISTERED PROFESSIONAL ENGINEER

No. 33037

Exp. 6/30/06

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STATE OF CALIFORNIA

RICK ENGINEERING

5620 FRIARS RD.

SAN DIEGO, CA. 92110

619-291-0707

REGISTERED CIVIL ENGINEER

4/15/05

DATE

This drawing is NOT in conformance with latest UBC and should be used with care.

U TYPE WING TYPE

SECTION A-A

SECTION B-B

ELEVATION

DIMENSIONS	DOUBLE PIPE		DOUBLE PIPE	
	U TYPE	WING TYPE	U TYPE	WING TYPE
Metric	457mm	68mm	381mm	57mm
US	18"	2'-3 1/8"	15"	2'-3 1/8"
Metric	610mm	92mm	533mm	80mm
US	24"	3'-7 1/8"	21"	3'-3 1/8"
Metric	762mm	124mm	688mm	103mm
US	30"	4'-9 1/8"	27"	4'-4 1/8"
Metric	914mm	151mm	889mm	126mm
US	36"	5'-11 1/8"	35"	5'-1 1/8"

NOTES:

- Concrete shall be 3320kg/m³ - C-22Mpa (5600-C-3250)
- Exposed corners to be chamfered 3/4"
- Multiple pipes to be set a distance of D/2, with a 305mm(12") minimum between outside diameters of
- Top of headwall shall be placed approximately parallel to profile grade when the grade is 3% or more.
- Sloped pipes: Dimension W to be increased in width or length due to skew or multiple pipes.
- For pipe wall thickness greater than 76mm(3") use alternate Detail C.

Revision	By	Approved	Date
ORIGINAL	Kercheval	2/7/03	
ADD	Metric	R. Stenton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

MODIFIED HEADWALL

REMOVABLE 3/4" DIA ANCHOR BOLTS THROUGH PIPE SCREEN AND 1/2" STEEL PLATE

12" PVC

GALVANIZED STEEL PLATE SEE DETAIL BELOW

SIDE VIEW

OUTLET PROTECTION ~ NEENAH R-7512-B1 OR EQUAL

CAST IRON PIPE SCREEN FOR 12" PIPE, DEBRIS RACK TO BE MOUNTED TO HEADWALL AND APRON

EL 381.50

EL 380.50

INV EL 379.50

2'-6"

REMOVABLE 3/4" DIA ANCHOR BOLTS

12" PVC

6"

PROPOSED STEEL PLATE

FRONT VIEW

NTS

WIDTH	HEIGHT	LENGTH	OPENING
18"	13"	18"	1"

* SIX 3/4" HOLES FOR ANCHOR BOLTS

REMOVEABLE BOLTS

1/2"x18"x13" GALVANIZED STEEL PLATE

18"

10"

13"

8"

GALVANIZED STEEL PLATE

SEE DETAIL B

SEE DETAIL A

TOP VIEW

30'

PROVIDE MESH TOP & BOTTOM

ELEVATION VIEW

GROUND

3"x3" MESH

END VIEW

GROUND

DETAIL 2

EX. EL 384.21

EX. EL 383.10

EX. EL 383.13

384.00

PROPOSED 3.5'x4.5' CONCRETE SAMPLING PAD

TOP 384.1

FG 384.1

N 1891693.69

E 6351288.80

382

381

380

END COBBLE SURFACING

N 1891691.56

E 6351296.92

LOW FLOWLINE

TOP 384.1

FG 383.7

N 1891689.15

E 6351289.40

PROPOSED CONCRETE COBBLE BENCH SEE SECTION D-D

END TOP OF BENCH

EL 383.17

N 1891686.13

E 6351287.47

DISCHARGE PIPE ORIENTATION (NTS)

SCALE 1" = 10'

4" SCHEDULE 40 PVC

48" CLASS 1 (FLEXIBLE POST) DELINEATOR WITH BELOW SURFACE ANCHOR

NTS

48" Minimum

1 1/2" Max.

Minimum 3" x 12"

REFLECTIVE TAPE

2 1/4" Minimum

18" Min

CLASS 1

FLEXIBLE POST

1. BUTT TOGETHER SECTIONS TO BE JOINED, OVERLAPPING COIL SPRINGS.

CONNECTING PIN

2. INSERT CONNECTING PIN THROUGH COIL SPRINGS.

SIDE VIEW

TOP VIEW

DETAIL A INTERLOCKING DETAIL

NTS

HESCO WALL INSTALLATION DETAIL

DETAIL B REMOVABLE LINER DETAIL

NTS

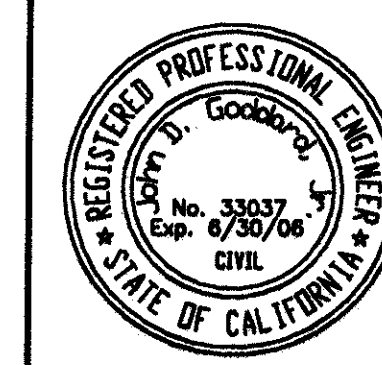
LEAVE ENOUGH FABRIC TO COVER THE TOP OF GRAVEL INFILL ONCE PLACED

NOTE:

WHEN UNITS ARE JOINED WITH ZIP PINS, THE GEO LINER IS ROLLED BACK, ALLOWING CONTINUOUS 2" MINUS/ GRAVEL INFILL, EFFECTIVELY CREATING A CONTINUOUS BARRIER.

HESCO WALL SYSTEM (OR APPROVED EQUIVALENT) SHALL HAVE WIRE MESH TOP HINGED TO SYSTEM & SECURELY FASTENED.

W: 1480A 1480A-B, Woodside Avenue (County) C:\3100\0-C-SH05-BET.dwg, 04/15/05 01:17:34 PM, q16



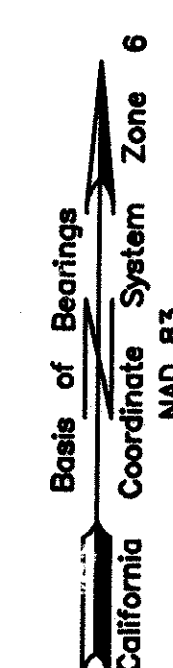
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RICK ENGINEERING 5620 FRIARS RD. SAN DIEGO, CA 92110 619-291-0707		
REGISTERED CIVIL ENGINEER		4/15/05 DATE



SEQUENCE OF CONSTRUCTION

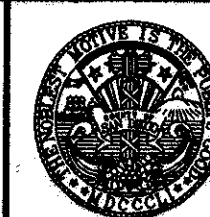
1. PERFORM MAJORITY OF WORK WITHIN SITE PRIOR TO REMOVING THE INTERIOR WALL OF THE EXISTING ON-SITE CONCRETE/COBBLE CHANNEL. THIS WILL ALLOW OFF SITE RUNOFF TO CONTINUE ON ITS PRE-PROJECT PATH THROUGH THE SITE WITHOUT COMMINGLING WITH ON-SITE DISTURBED AREAS.
2. STABILIZE ALL DISTURBED AREAS PRIOR TO REMOVING THE INTERIOR CHANNEL WALL AND PLACE TEMPORARY SAND BAGS ALONG BASE OF INTERIOR WALL CHANNEL.

- A PLACED REBAR AND CONCRETE SLURRY ON BACKSIDE COBBLE CHANNEL
- B EXTENDED HESCO WALL 6' TO EDGE OF CONCRETE COBBLE CHANNEL
- C PLACED RIP RAP FROM EXCAVATION ON SLOPE



SDP 213

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COORDINATE INDEX
250 N 1785 E
CONST. COMPL.
FIELD REVISIONS

WOODSIDE AVENUE
WATER QUALITY BASIN
In the Vicinity of Lakeside
WATER POLLUTION CONTROL PLAN-CONCEPTUAL

SCALE: HOR. 1"=40' VERT. N/A
W.A. YF1531 R.S. 331
SHEET 6 OF 13

PLANS

DESIGNED

CHECKED

DELINEATED

BY

BRENDAN HASTIE

CARL HEWINGS

BRIAN LEDGERWOOD

DATE

REGISTERED PROFESSIONAL ENGINEER

State of California

No. 33637

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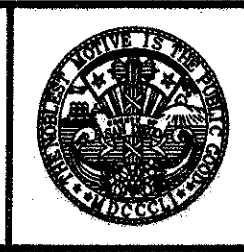
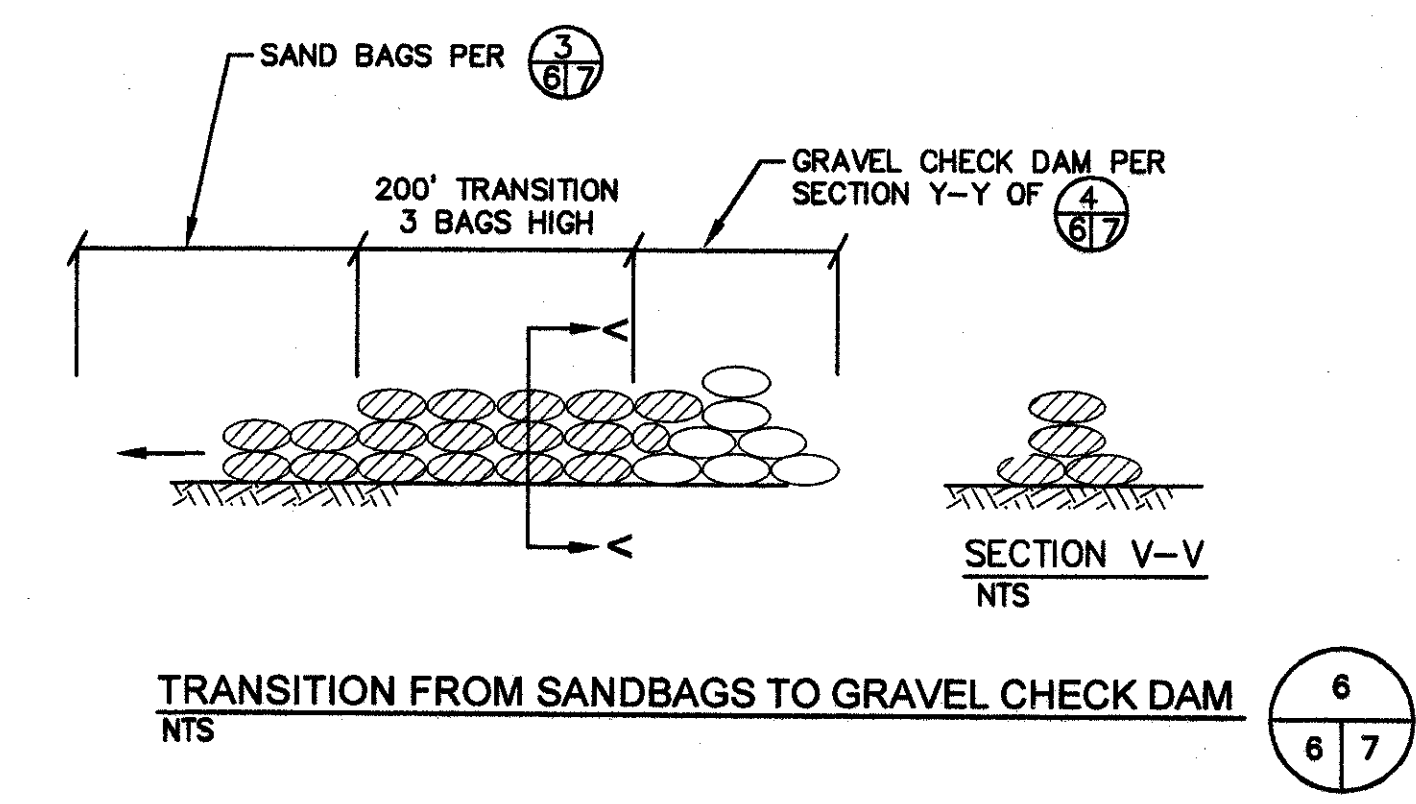
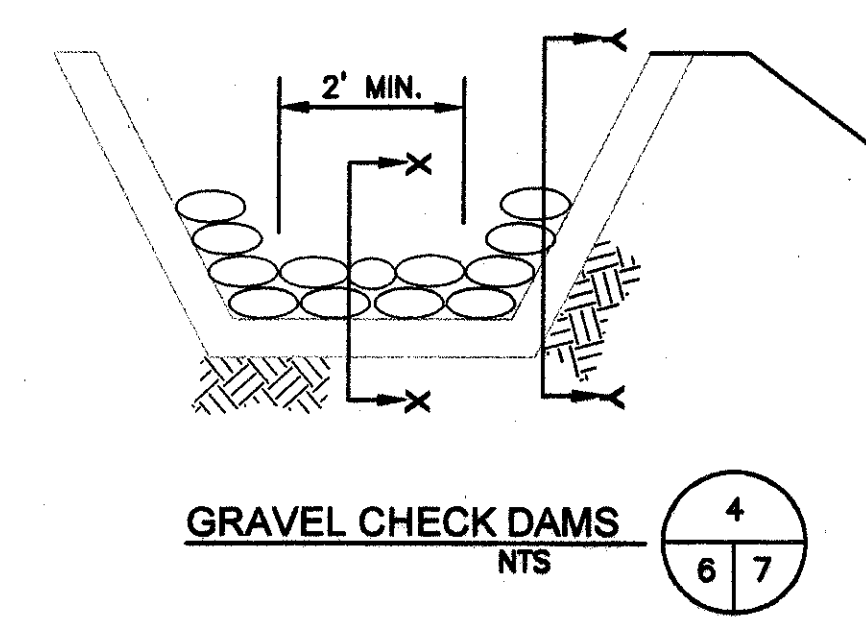
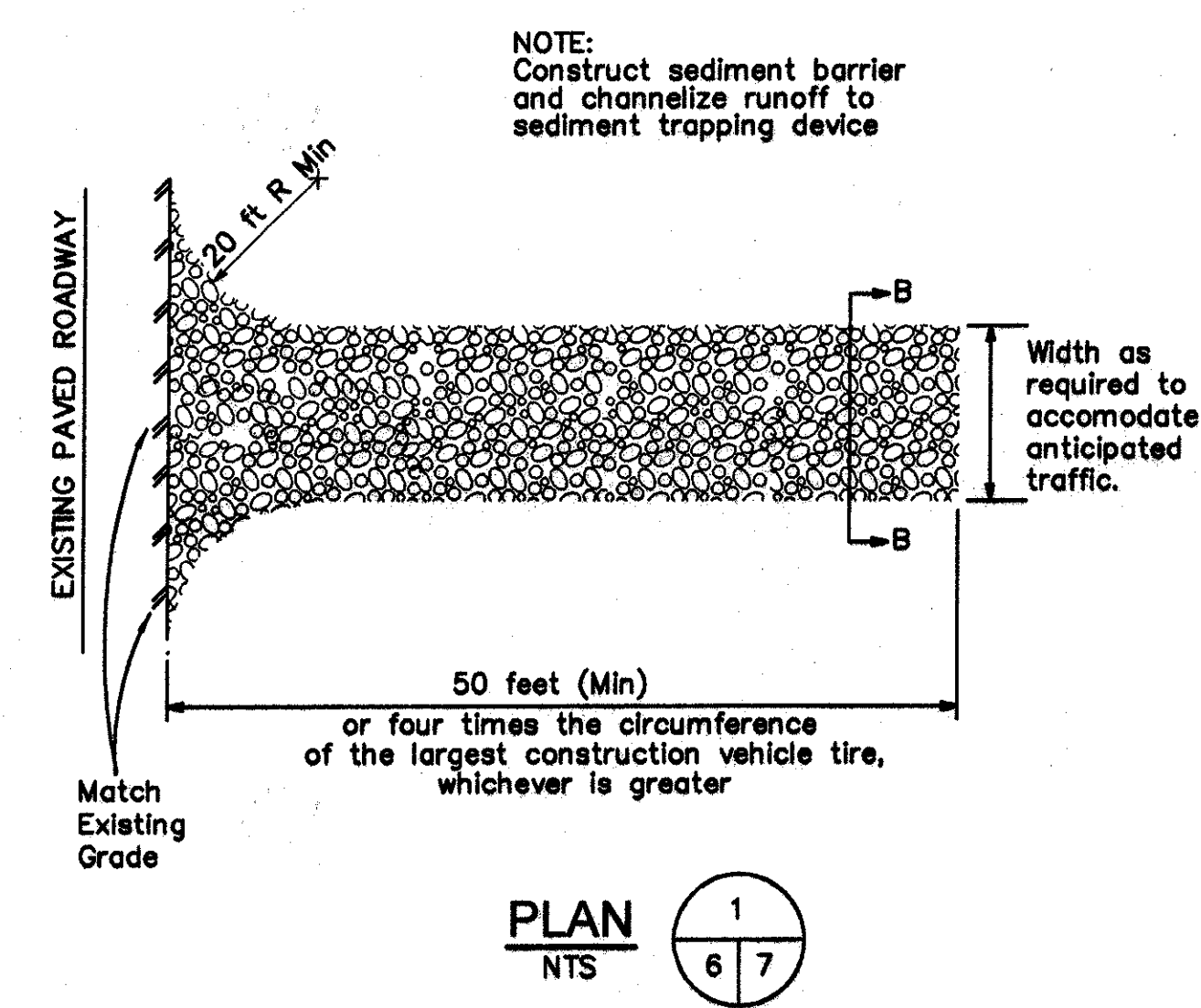
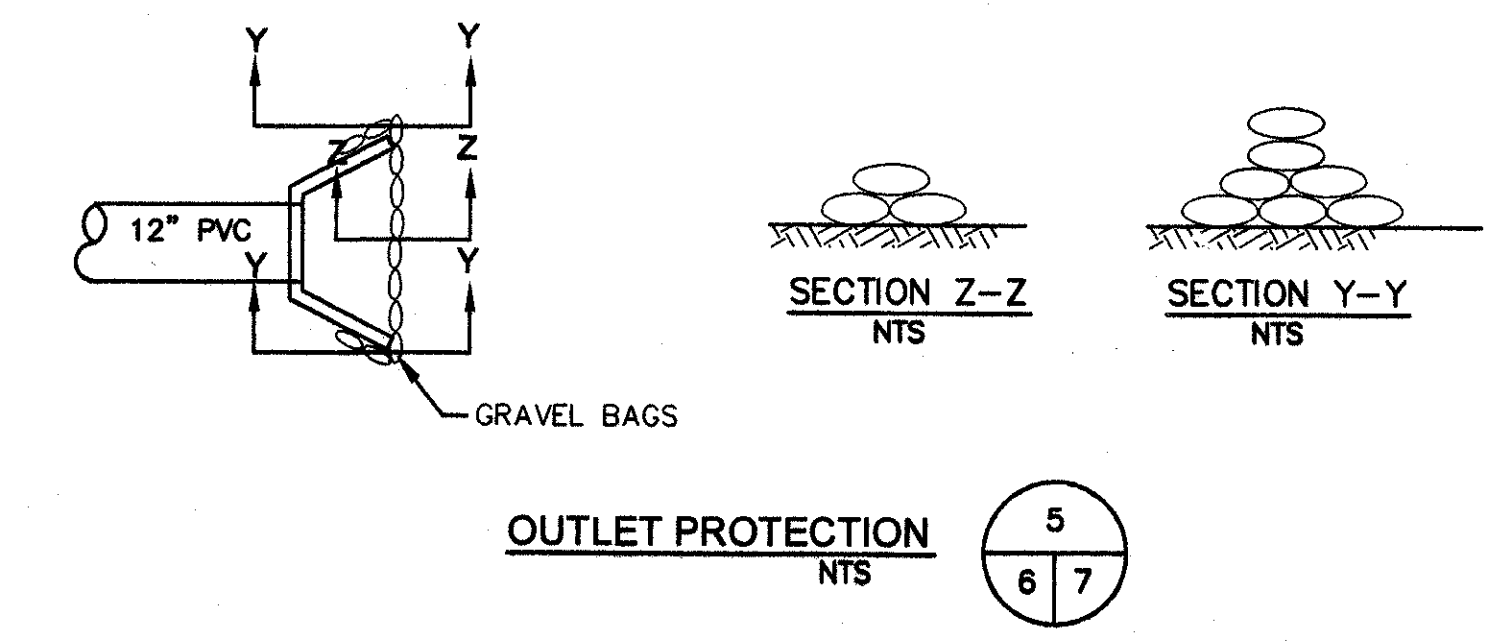
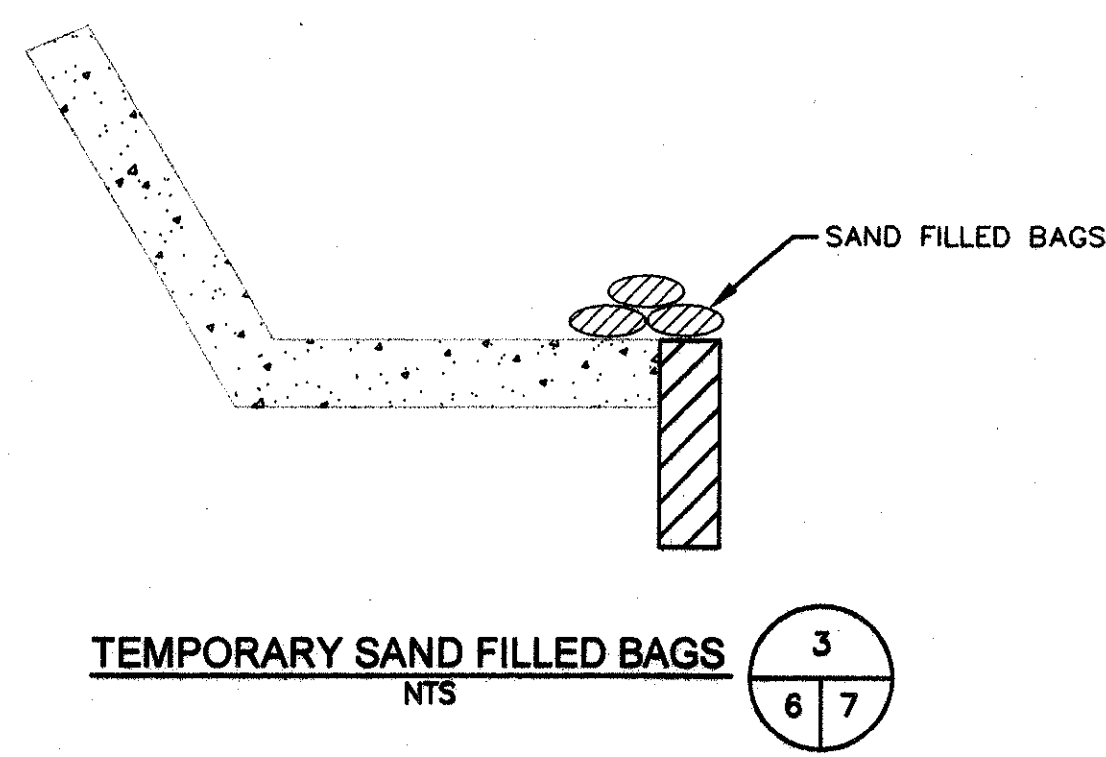
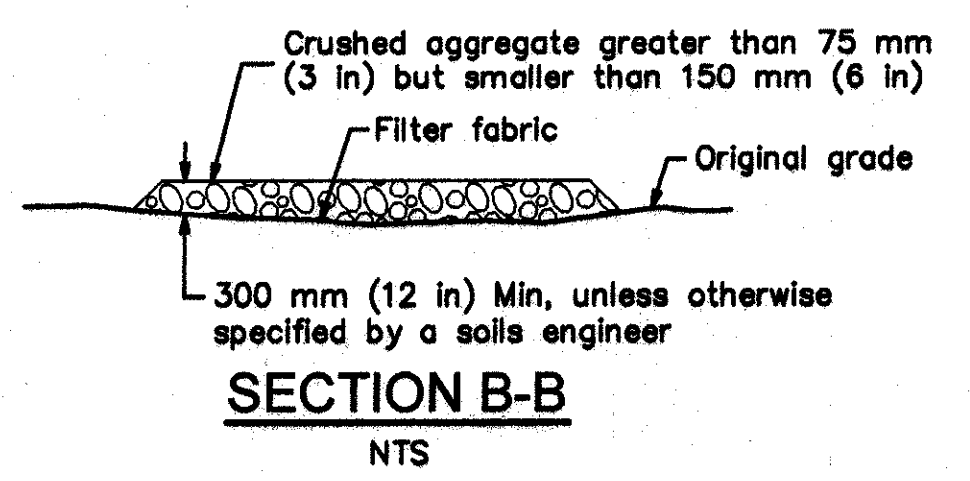
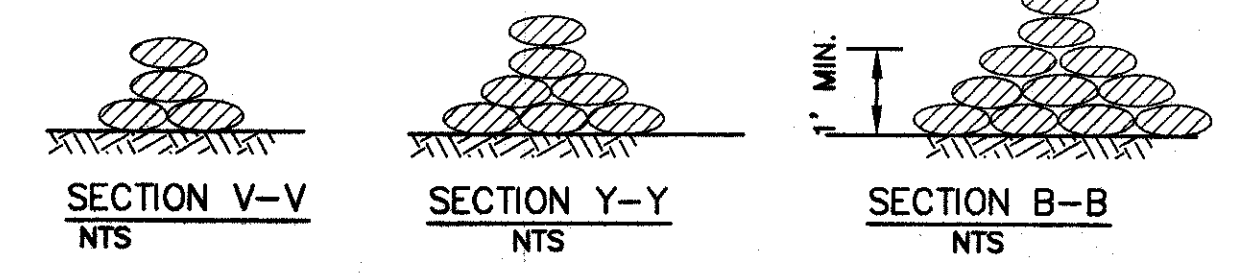
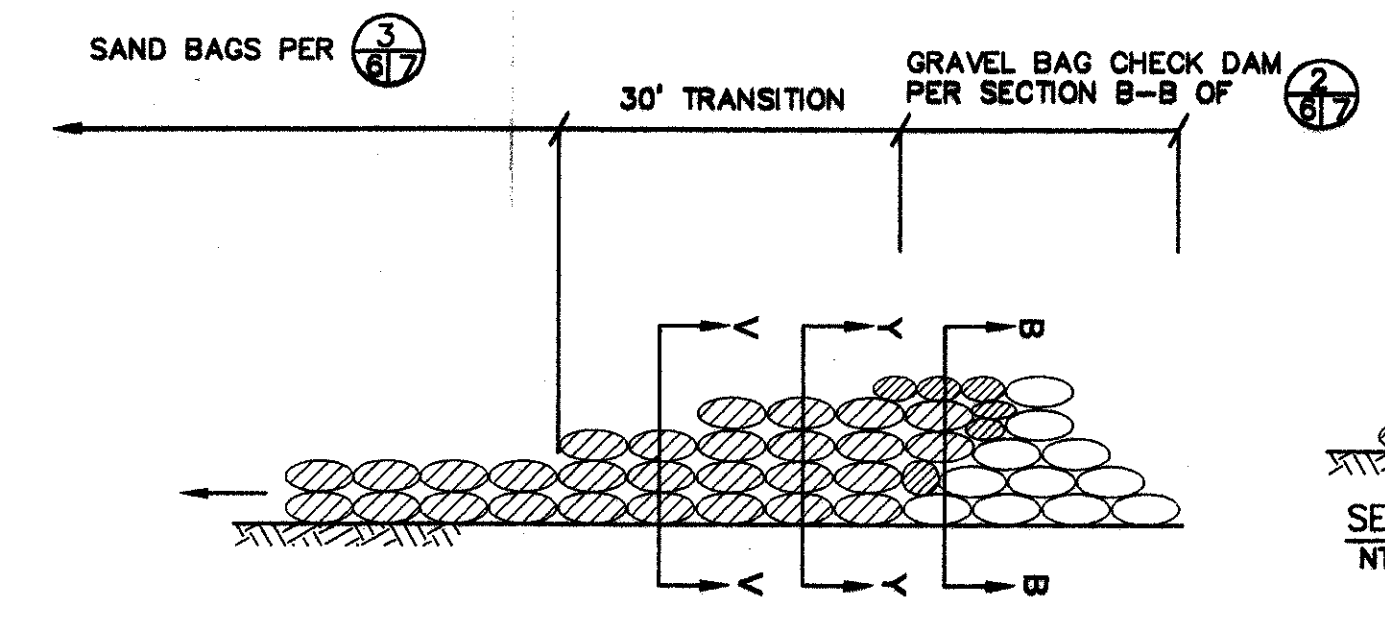
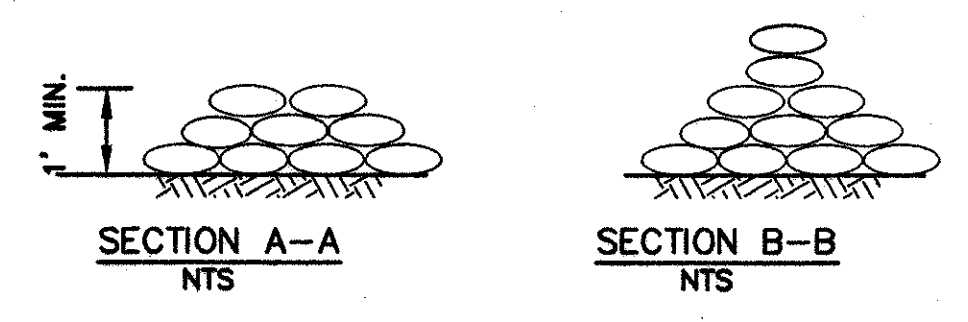
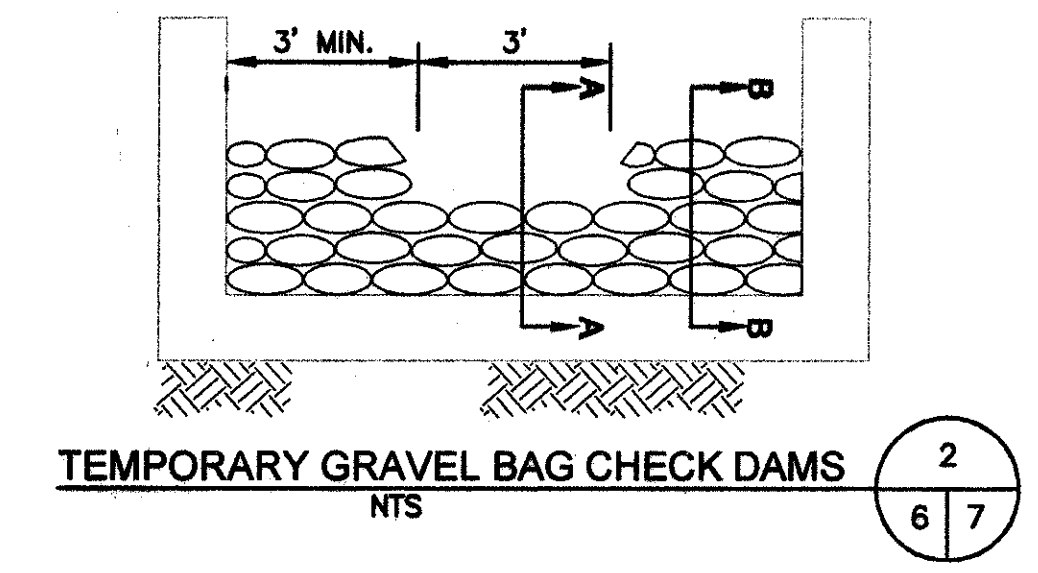
DATE

WATER POLLUTION CONTROL NOTES:

1. NO WORK HAVING POTENTIAL TO CAUSE WATER POLLUTION, AS DETERMINED BY THE ENGINEER, SHALL BE PERFORMED UNTIL THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN SUBMITTED BY THE CONTRACTOR, AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL CONSIDER OTHER CONTROL MEASURES, AS NECESSARY, TO SUPPLEMENT THE CRITICAL TEMPORARY CONTROL MEASURES SHOWN ON THESE PLANS, IN ORDER TO MEET THE POLLUTION CONTROL OBJECTIVES OF THE SWPPP.
3. THE TOTAL AREA OF SOIL DISTURBANCE FOR THIS PROJECT IS 1.7 ACRES.

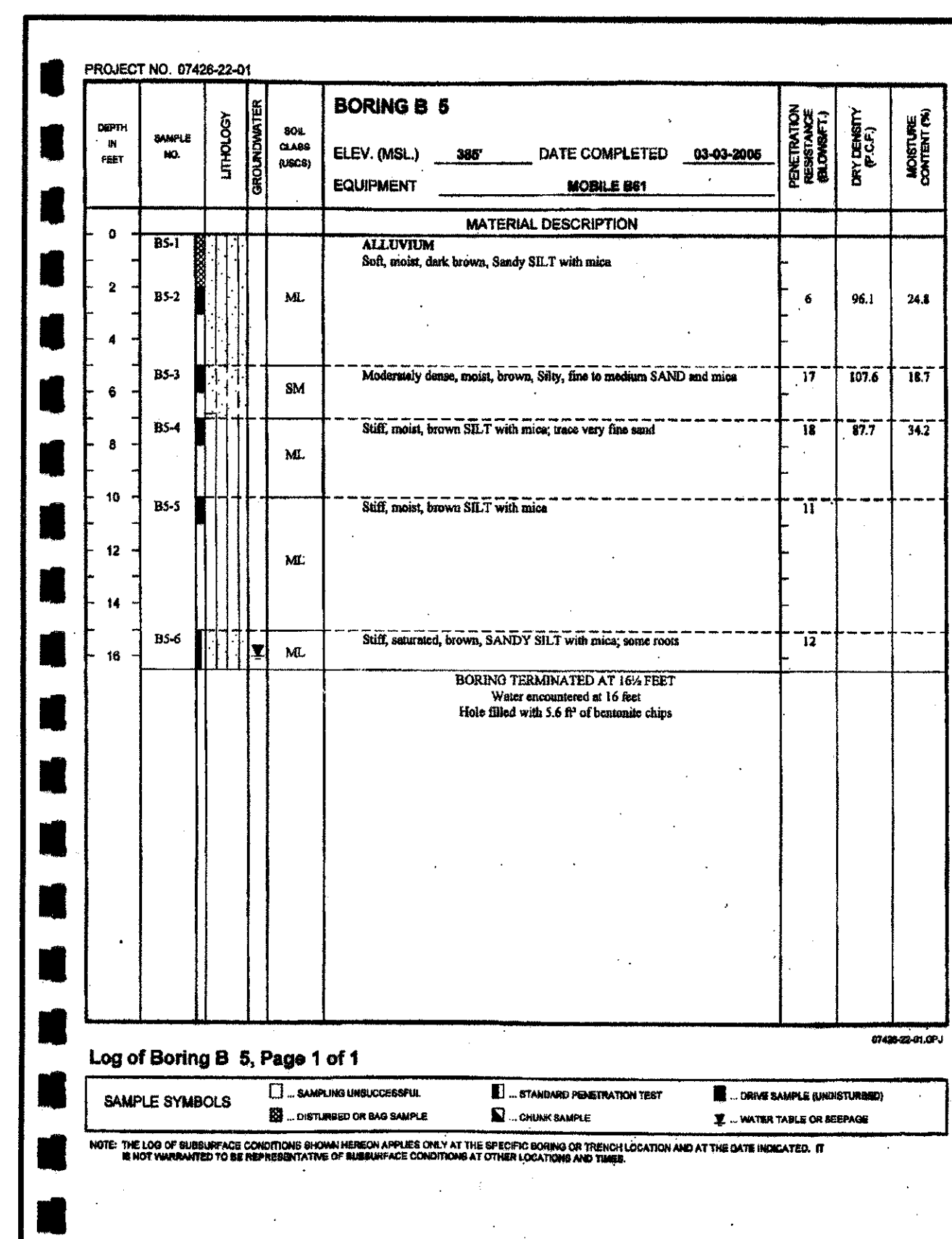
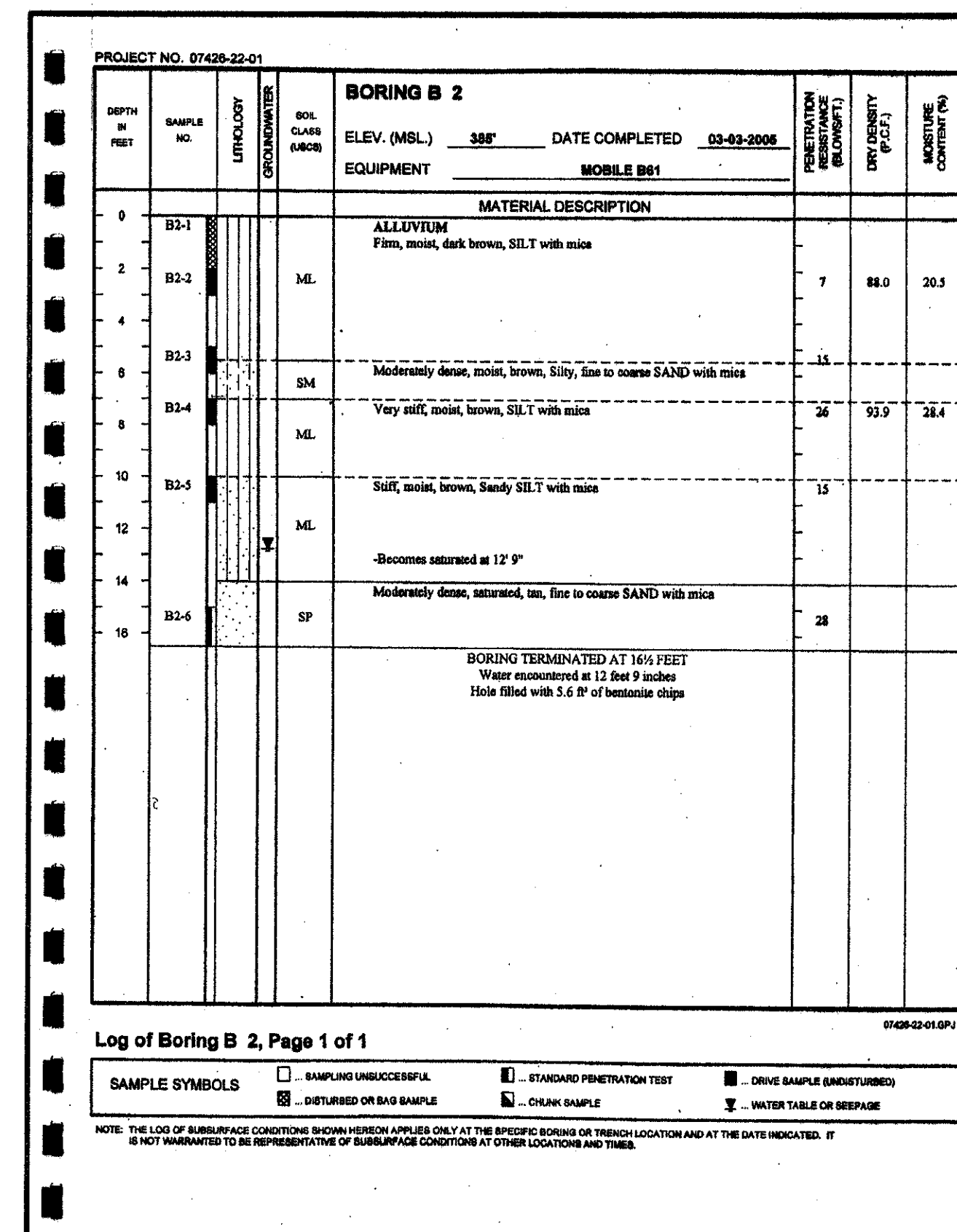
LEGEND

1. DIRECTION OF STORMWATER RUNOFF
2. TEMPORARY GRAVEL BAGS (DESILTING BARRIER)
3. EROSION CONTROL (TYPE D2)
4. TEMPORARY SAND FILLED BAGS



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250 N. 1785 E.
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SDP 213

IRRIGATION NOTES:

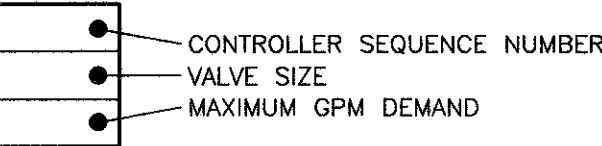
1. PLANS ARE DIAGRAMMATIC AND APPROXIMATE. ALL PIPING, VALVE BOXES, BACKFLOW PREVENTERS, ETC., SHALL BE LOCATED IN LANDSCAPE AREAS. NO IRRIGATION EQUIPMENT SHALL BE LOCATED IN HARDSCAPE. GROUP VALVE BOXES AND LOCATE IN SHRUB AREAS WHENEVER POSSIBLE. ALL IRRIGATION TO BE PLACED ENTIRELY WITHIN THE PROPERTY LINES.
2. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 80 PSI. THE CONTRACTOR SHALL VERIFY THE AVAILABLE WATER PRESSURE AT THE P.O.C. AND PROVIDE THE OWNER AND THE LANDSCAPE ARCHITECT WITH TESTING RESULTS, IN WRITING, PRIOR TO THE INITIATION OF ANY LANDSCAPE WORK.
3. SEE SHEET 10 & 11 FOR IRRIGATION DETAILS.
4. IRRIGATION SYSTEM SHALL BE ADJUSTED SO THAT NO OVER-SPRAY ONTO HARDSCAPE.
5. SEE SHEET 12 FOR PLANTING PLAN.
6. WATER METER, BACKFLOW PREVENTER, AND MASTER VALVE TO BE LOCATED ENTIRELY WITHIN 5' BENCH ADJ. TO SIDEWALK.

ADDITIONAL IRRIGATION NOTES

1. UVR/PVC PIPE AND FITTINGS (BROWNLINER OR EQUAL)
 - A. PRESSURE LINE PIPE SHALL BE PVC 1120, TYPE I GRADE I NSF APPROVED, AS MANUFACTURED BY BROWNLINER PIPE COMPANY (OR EQUAL) IN ACCORDANCE WITH ASTM D-1785 AND SHALL BE OF NOMINAL SCHEDULE 40 PIPE CLASSIFICATION. MATERIAL SHALL MEET ASTM D-1784, CELL CLASS 12454B.
 - B. ALL PLASTIC PIPE SHALL BE CONTINUOUSLY AND PERMANENTLY MARKED WITH THE FOLLOWING INFORMATION: MANUFACTURER'S NAME, NOMINAL PIPE SIZE, UVR-PVC TYPE AND GRADE, PRESSURE RATING IN PSI, NSF APPROVAL AND DATE OF EXTRUSION.
 - C. ALL FITTINGS SHALL BE UVR/PVC AS MANUFACTURED BY BROWNLINER PIPE COMPANY (OR EQUAL) PVC 1120, TYPE I, GRADE I NSF APPROVED, IN ACCORDANCE WITH ASTM D-2466, SCHEDULE 40 SOCKET TYPE WITH THE DIMENSION CONFORMING TO AND INTENDED FOR USE WITH I.P.S. OUTSIDE DIAMETER SCHEDULE 40 PIPE.
 - D. ALL RISER NIPPLES SHALL BE UVR-PVC SCHEDULE 80, PVC 1120, TYPE I, GRADE I, NSF APPROVED AS MANUFACTURED BY BROWNLINER PIPE COMPANY (OR EQUAL) IN ACCORDANCE WITH ASTM D-1785. MATERIAL SHALL MEET ASTM D-1784 CELL CLASS 12454B. THE NIPPLES SHALL BE 1/2" OR 3/4" I.P.S. DIMENSION WITH LENGTH AS SPECIFIED ON PLANS.
 - E. STAKES FOR UVR PIPE SHALL BE OF 1/2" SQUARE DIMENSIONAL STEEL TUBING WITH A MINIMUM WALL OF 0.060, THE STAKE POINT BEING CUT AT AN ANGLE OF 60 DEGREES. ALL STAKES FOR USE WITH THE RISER STABILIZER SHALL BE 24" MINIMUM LENGTH. ALL STAKES FOR USE WITH THE PIPE STABILIZER SHALL BE 18" MINIMUM LENGTH UNLESS SPECIFIED ON THE PLANS WITH DIFFERENT LENGTH DIMENSIONS.

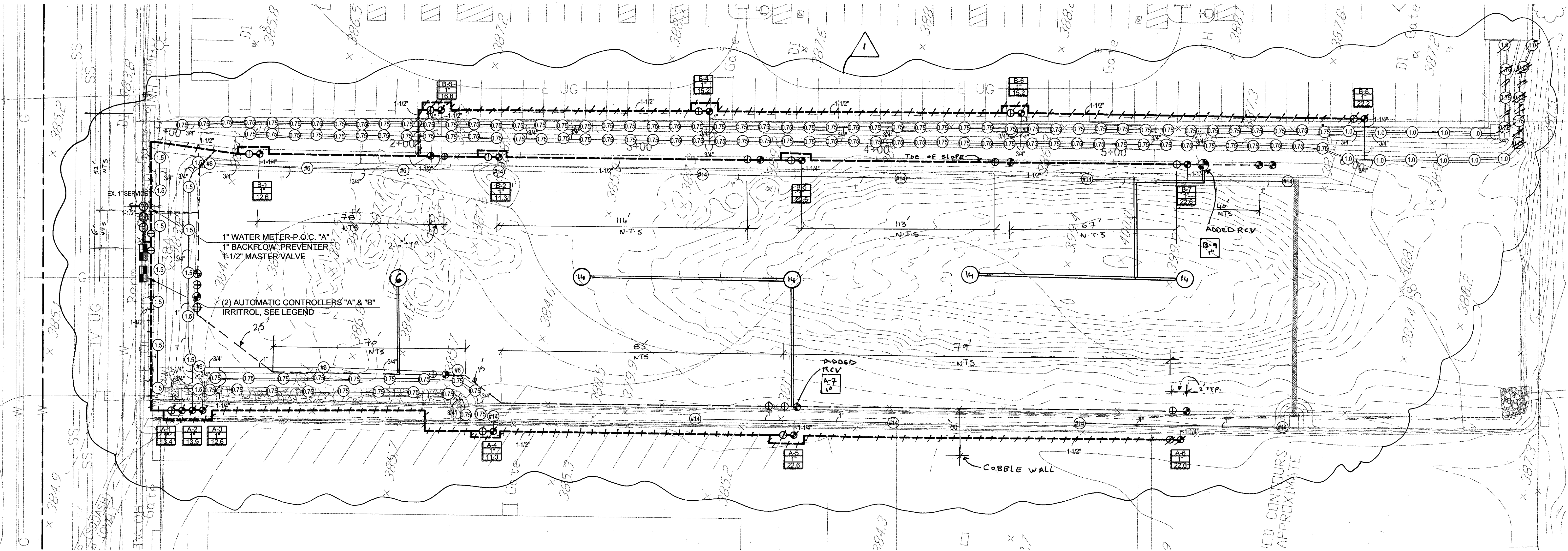
IRRIGATION LEGEND

NUMBER INDICATES MANUFACTURER AND MODEL NUMBER OF THE IRRIGATION HEAD AND ITS NOZZLE (SEE # LEGEND BELOW) - SEE DET. A, SHT. LI-2					
SYM.	DESCRIPTION	MANUF./MODEL	GPM	PSI	RAD.
0.75	STREAM ROTOR HEAD	RAINBIRD 3504-S-PC-SAM-NOZ. 0.75	0.54	25	15'
1.0	STREAM ROTOR HEAD	RAINBIRD 3504-S-PC-SAM-NOZ. 1.0	0.77	25	20'
1.5	STREAM ROTOR HEAD	RAINBIRD 3504-S-PC-SAM-NOZ. 1.5	1.06	25	23'
#6	STREAM ROTOR HEAD	RAINBIRD FALCON 6504-NOZ. 6	4.2	30	43'
#14	STREAM ROTOR HEAD	RAINBIRD FALCON 6504-NOZ. 14	11.3	40	55'



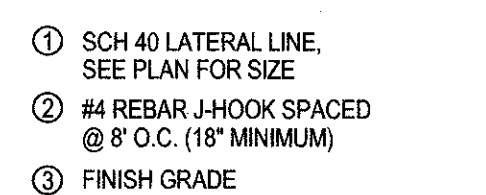
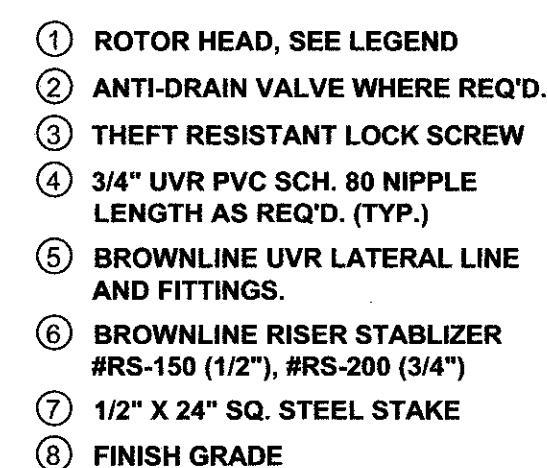
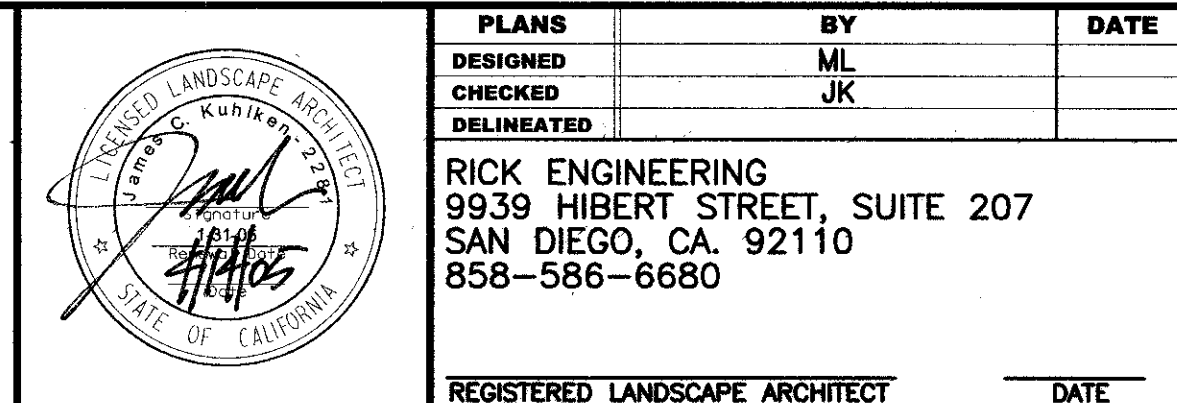
IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS	DETAIL
	AUTOMATIC CONTROLLER (A&B)	IRRITROL / IBOS-8PLUS ON PEDESTAL P-2B	BATTERY POWERED (8) STATION AUTOMATIC CONTROLLERS ON PEDESTAL	J / LI-2
	1" WATER METER	BY OTHERS	INSTALL PER LOCAL WATER AUTHORITY'S REGULATIONS	NA
	BACKFLOW PREVENTOR	WATTS 009QT	INSTALL PER LOCAL WATER AUTHORITY'S REGULATIONS	NA
	1-1/2" MASTER CONTROL VALVE	SUPERIOR CONTROLS / MODEL 3300 (BRASS)	SIZE AS SHOWN. REMOTE CONTROL VALVE WITH CONTROLLER I.D. TAG	H / LI-3
	GATE VALVE (3" AND SMALLER)	NIBCO T-136	FOR ISOLATION ON MAINLINES 3" AND SMALLER	C / LI-2
	REMOTE CONTROL VALVE	HUNTER ICV _G-DC-AS	SIZE AS SHOWN ON PLAN. PRESSURE REGULATING REMOTE CONTROL VALVE FOR OVERHEAD SYSTEMS. INSTALL RCV ASSEMBLY WITH CONTROLLER I.D. TAG.	E / LI-2
NO SYMBOL	CONTROL WIRE	SEE SPECIFICATIONS	CONTROL WIRE TO FOLLOW IRRIGATION MAINLINE IN COMMON TRENCH WHENEVER POSSIBLE.	NA
	PULL BOX	SEE SPECIFICATIONS	PULL BOX ES TO BE INSTALLED AT ENDS OF CONTROL WIRE SLEEVES AT ROAD OR DRIVE CROSSINGS. PULL BOXES TO BE INSTALLED AT ALL OTHER PAVING CROSSING IN EXCESS OF 40 LINEAR FEET.	M / LI-3
	PVC MAINLINE PIPE	PACIFIC PLASTICS PVC	1" - 1 1/2" = PVC SCH 40; 2" AND LARGER = PVC CLASS 315	K / LI-3
	UVR LATERAL LINE PIPE	BROWNLINER OR EQUAL	SCH. 40 UVR PVC (SIZED PER PLAN)	B / LI-2
	PVC SLEEVE	PACIFIC PLASTICS PVC	PVC SCH 40; TWO TIMES DIA. OF PIPE OR WIRE BUNDLE. (2" MIN.)	G / LI-2

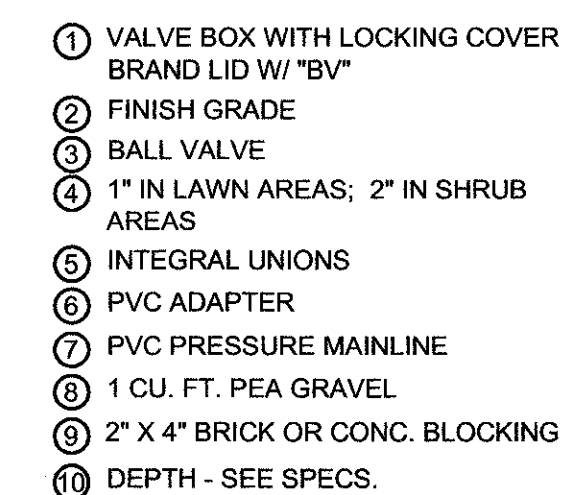


REVISIONS	BY	APPROVED	DATE
RECORD DRAWING REVISIONS	SS		11-1-05

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WHEN UVR PVC PIPING SYSTEMS ARE INSTALLED ABOVE GROUND, THEY MUST BE PROPERLY SUPPORTED TO AVOID UNNECESSARY STRESSES AND POSSIBLE SAGGING. ON HORIZONTAL AND VERTICAL RUNS, SUPPORTS SHOULD BE INSTALLED A MAXIMUM OF 8' O.C.



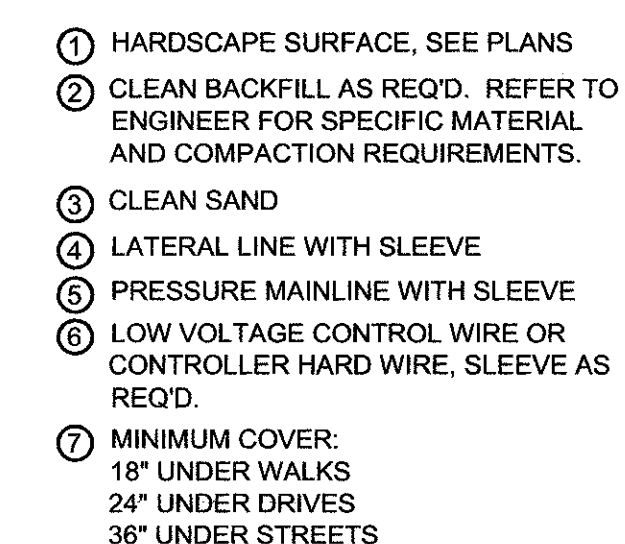
D NOT ASSIGNED
NOT TO SCALE-ELEVATION



- ① PLUG
- ② CRIMP SLEEVE
- ③ BODY
- ④ WIRES

ASSEMBLY INSTRUCTIONS:

1. INSERT WIRES THROUGH HOLES IN BASE OF BODY.
2. JOIN WIRES TOGETHER AND APPLY CRIMP SLEEVE.
3. DRAW WIRES BACK INTO BODY.
4. FILL CAP TO BRIM WITH SEALANT AND ALSO APPLY SEALER TO OUTSIDE OF PLUG.
5. INVERT BODY AND INSERT PLUG INTO BODY UNTIL IT SNAPS TIGHT.
6. BE CERTAIN SEALANT HAS FORMED INTO ALL HOLES IN BODY.
7. SEALANT MUST BE VISIBLE OUTSIDE OF PLUG TO PASS INSPECTION.



NOTES:

1. ALL SLEEVES TO BE PVC SCH. 40 PIPE.
2. ALL SLEEVES TO BE SIZED TWICE THE DIA. OF THE WORKING PIPE.
3. ALL SLEEVES TO RUN A MIN. OF 12" BEYOND HARDSCAPE EDGES.
4. CLEAN BACKFILL MAY BE SUBSTITUTED FOR SAND UNDER WALKS AND DRIVES.

G SLEEVING
NOT TO SCALE-ELEVATION



PLANS	BY	DATE
DESIGNED	ML	
CHECKED	JK	
DELINEATED		

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9939 HIBERT STREET, SUITE 207
SAN DIEGO, CA 92110
858-586-6680

REGISTERED LANDSCAPE ARCHITECT

DATE

- 1 GREEN PLASTIC VALVE BOX WITH LOCKING LID BRAND LID W/ "MV".

2 CONTROL WIRE WITH 24" EXPANSION COIL.

3 FINISH GRADE.

4 WATER TIGHT CONNECTORS.

5 1" IN LAWN AREAS; 2" IN SHRUB AREAS.

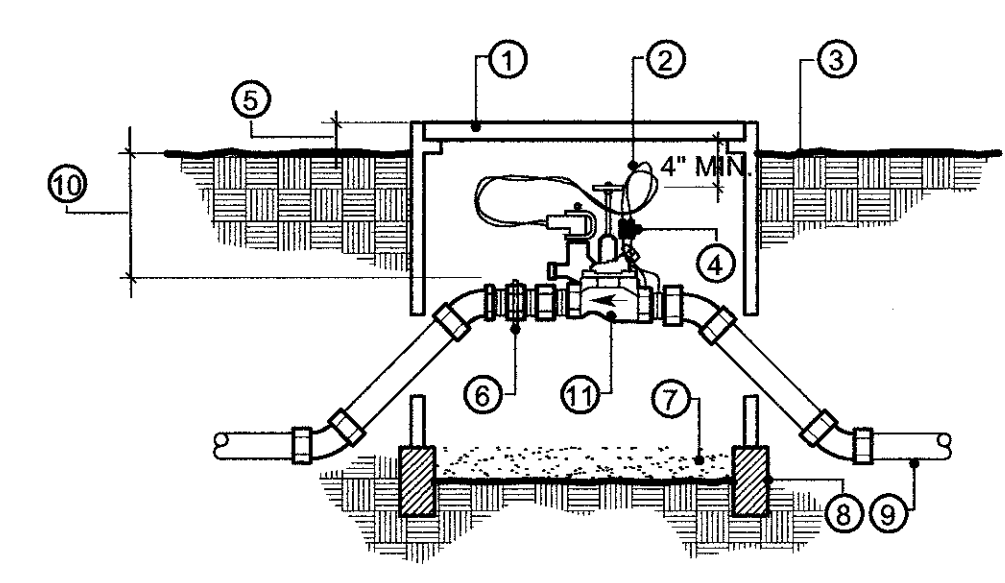
6 SCH. 80 UNION AND NIPPLES, TYP.
- 7 4" MIN. OF PEA GRAVEL.

8 BRICK OR CONCRETE BLOCKING.

9 MAINLINE. (SEE TRENCHING DETAIL)

10 6" MINIMUM.

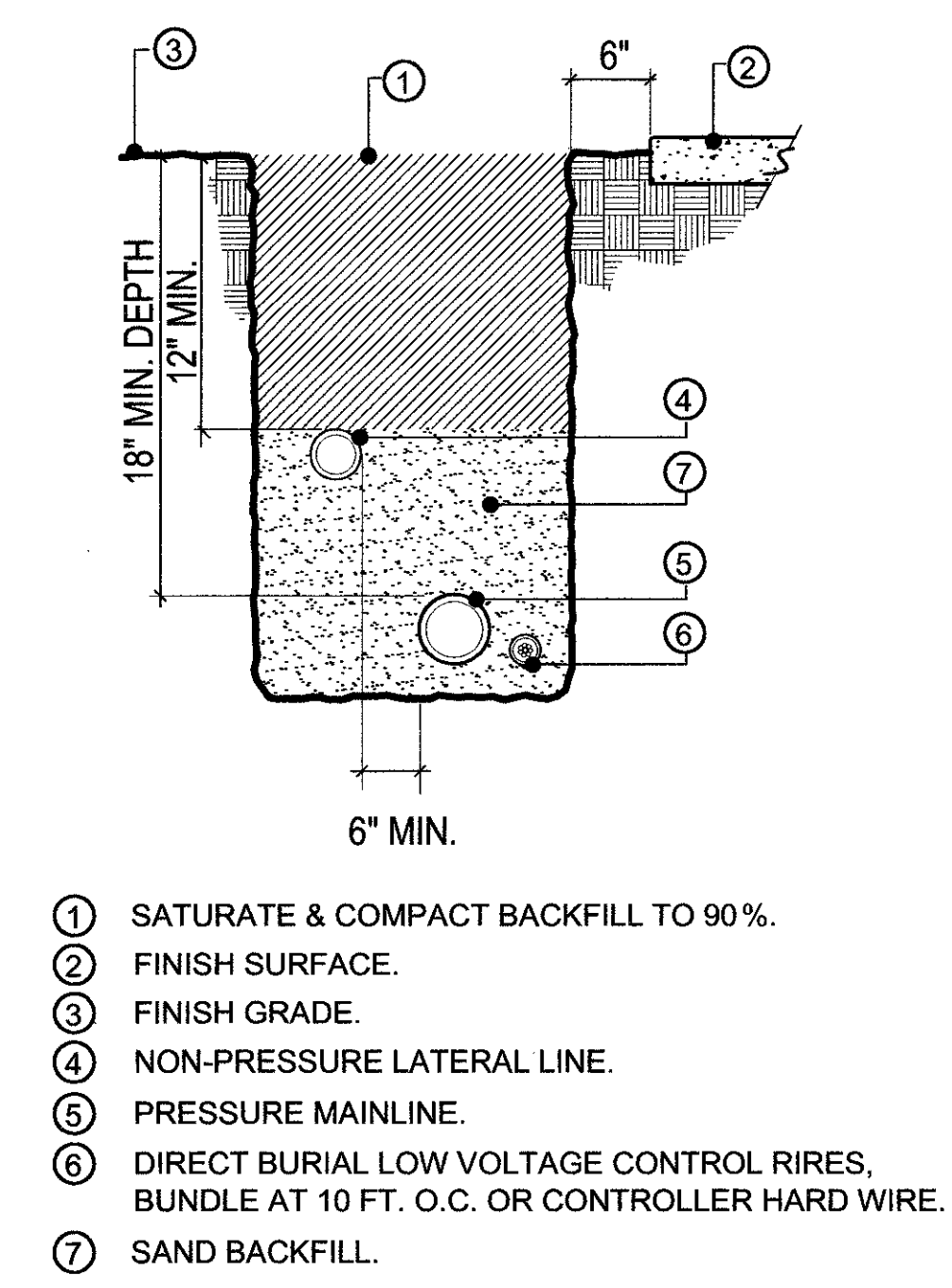
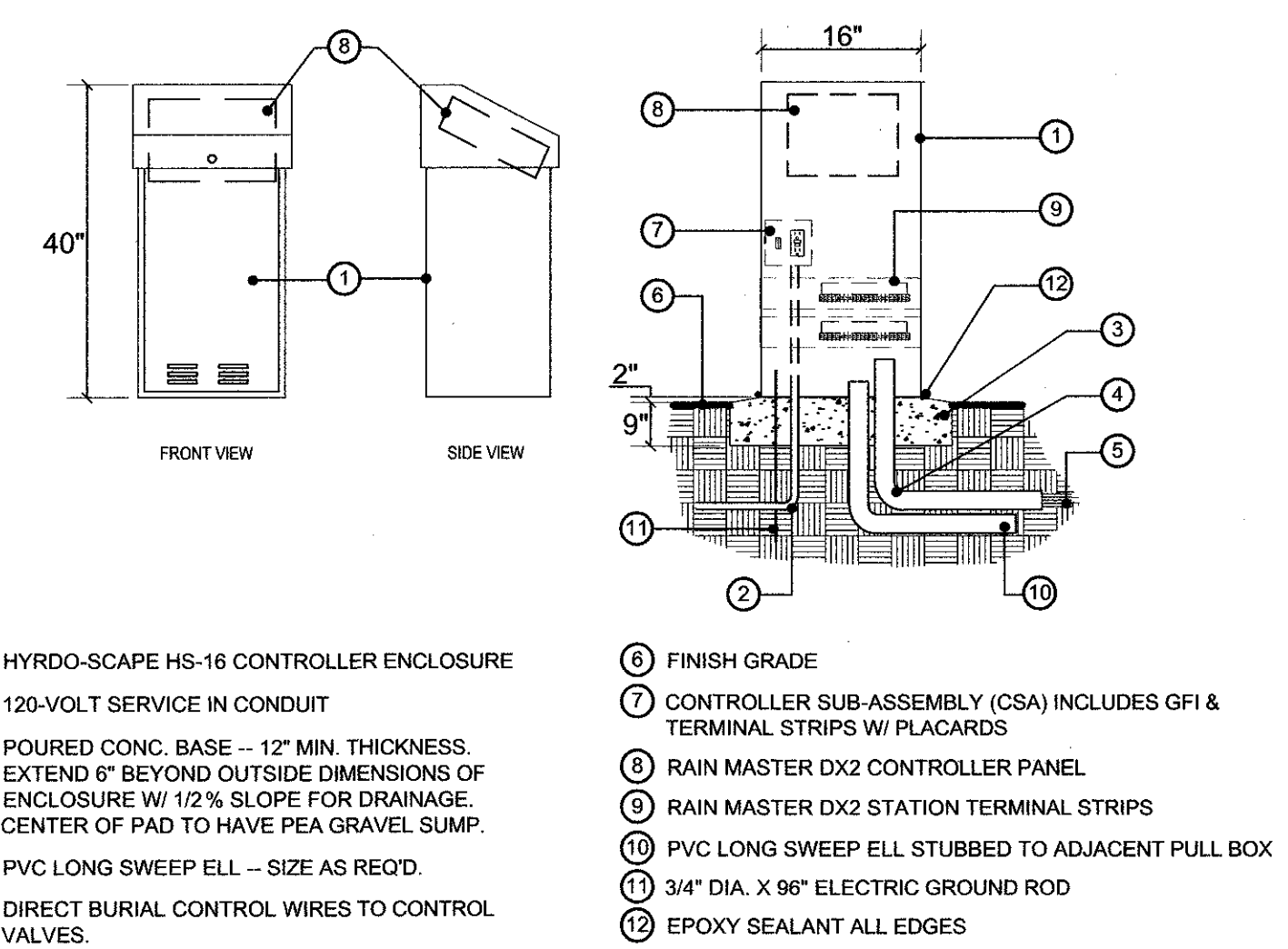
11 MASTER CONTROL VALVE.



H MASTER VALVE
NOT TO SCALE-ELEVATION

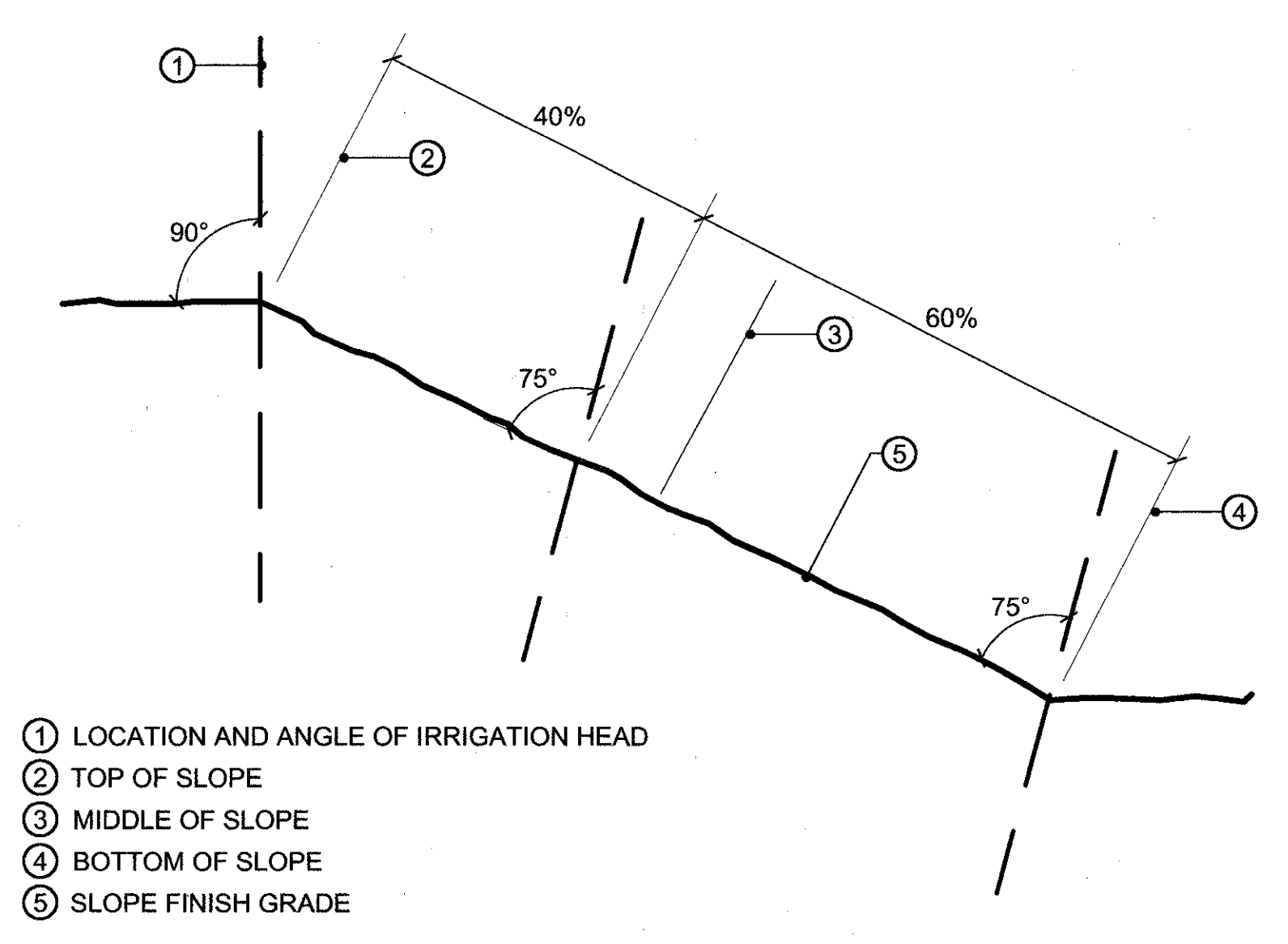
I NOT ASSIGNED
NOT TO SCALE-ELEVATION

J AUTOMATIC CONTROLLER
NOT TO SCALE-ELEVATION



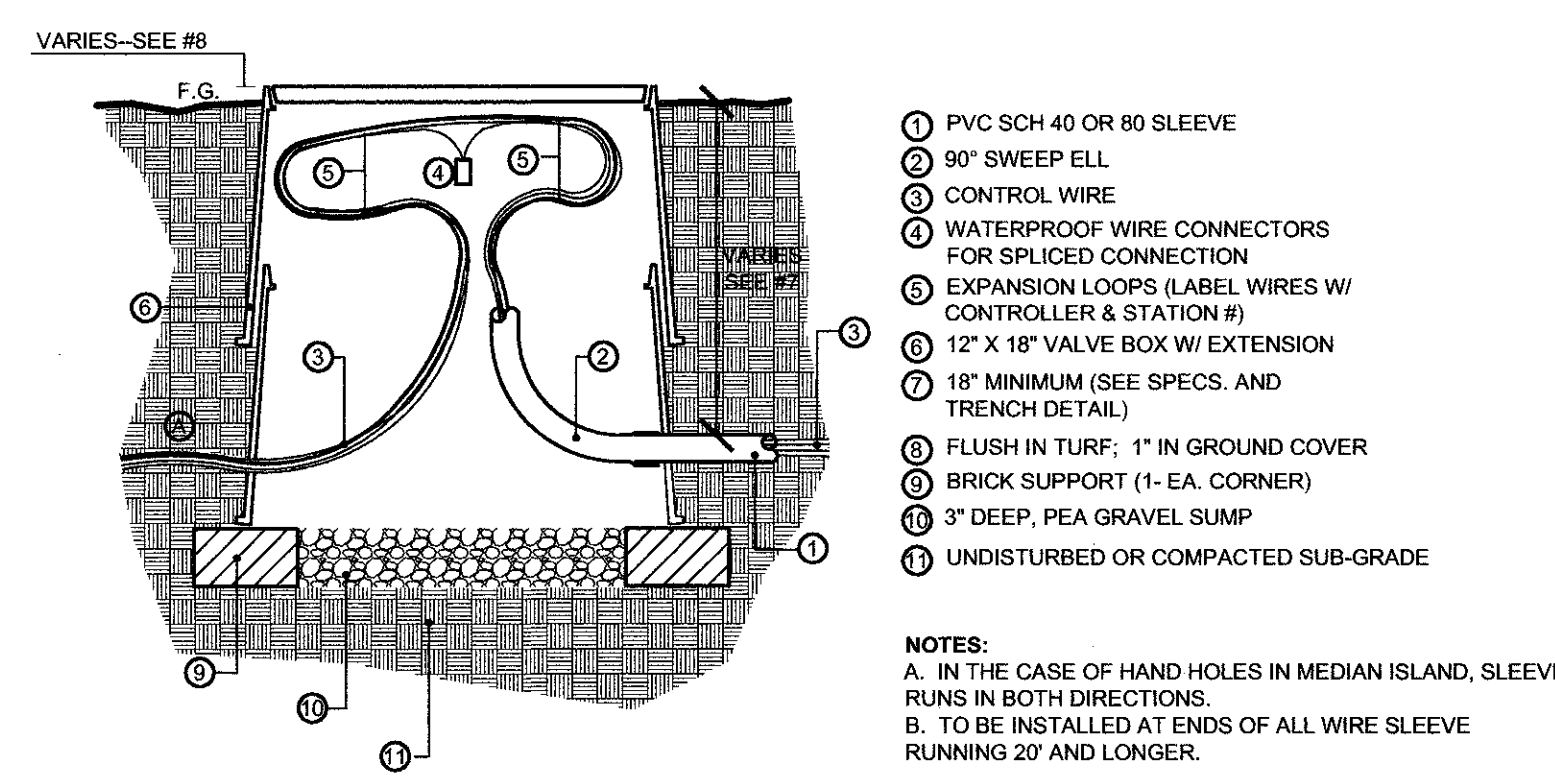
NOTE:
SEE TRENCHING DETAIL FOR TRENCHING

K TRENCHING
NOT TO SCALE-ELEVATION



- 1 LOCATION AND ANGLE OF IRRIGATION HEAD
- 2 TOP OF SLOPE
- 3 MIDDLE OF SLOPE
- 4 BOTTOM OF SLOPE
- 5 SLOPE FINISH GRADE

L SLOPE IRRIGATION
NOT TO SCALE-ELEVATION



- 1 PVC SCH 40 OR 80 SLEEVE
- 2 90° SWEEP ELL
- 3 CONTROL WIRE
- 4 WATERPROOF WIRE CONNECTORS FOR SPLICED CONNECTION
- 5 EXPANSION LOOPS (LABEL WIRES W/ CONTROLLER & STATION #)
- 6 12" X 18" VALVE BOX W/ EXTENSION
- 7 18" MINIMUM (SEE SPECS. AND TRENCH DETAIL)
- 8 FLUSH IN TURF; 1" IN GROUND COVER
- 9 BRICK SUPPORT (1- EA. CORNER)
- 10 3" DEEP, PEA GRAVEL SUMP
- 11 UNDISTURBED OR COMPACTED SUB-GRADE

M PULL BOX
NOT TO SCALE-ELEVATION

SDP213

-1 0 1 2 3 4 5 6 7 8 9 10 FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED	ML	
CHECKED	JK	
DELINEATED		

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858-586-6680

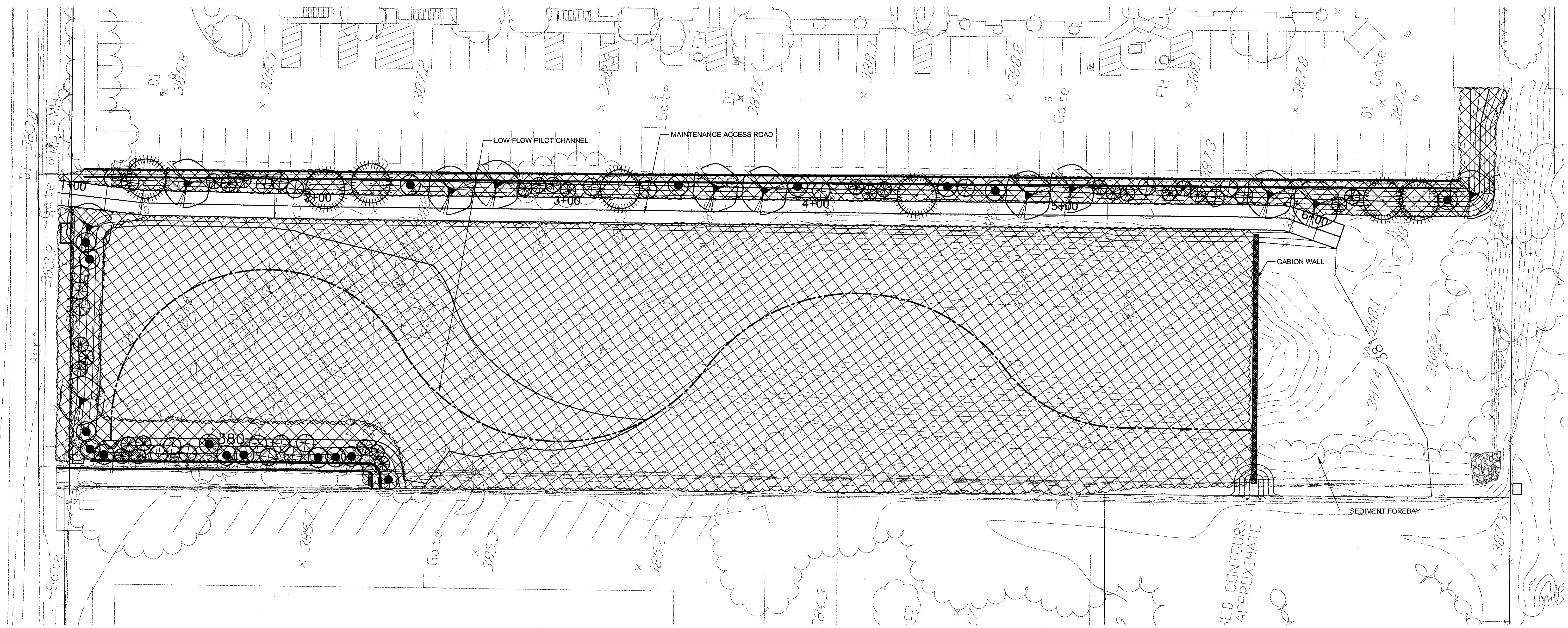
REGISTERED LANDSCAPE ARCHITECT

DATE

PLANT MATERIAL LEGEND:

- SYM. SLOPE TREES & SHRUBS**
- BOTANICAL NAME / COMMON NAME / SIZE
- QUERCUS AGRIFOLIA / COAST LIVE OAK / 15 GAL.
 - SALIX GOODLINGII / BLACK WILLOW / 15 GAL.
 - BACCHARIS SALICIFOLIA / MULE FAT / 5 GAL.
 - JUNCUS MEXICANUS / MEXICAN RUSH / 5 GAL.
 - MALOSMA LAURINA / LAUREL LEAF SUMAC / 5 GAL.

SYM.	HYDROSEED MIX #1	
	BOTANICAL NAME	LBS. / ACRE
	LEYMUS TRITICOIDES	20
	FESTUCA RUBRA 'MOLATE'	15
	DESCHAMPSIA ELONGATA	5
	VULPIA MICROSTACHYS	10
	TOTAL	50 LBS. / ACRE



COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5555 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RICK
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San Diego Riverside Sacramento Orange Phoenix Tucson

REVISIONS	BY	APPROVED	DATE

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250 N. 1785 E.
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WOODSIDE AVENUE
WATER QUALITY BASIN
In the Vicinity of Lakeside
LANDSCAPE PLANTING PLAN

SCALE: HOR. 1"=20' VERT. N/A
W.A. YF1531 R.S. 331
SHEET 12 OF 13

SDP213 LP-1

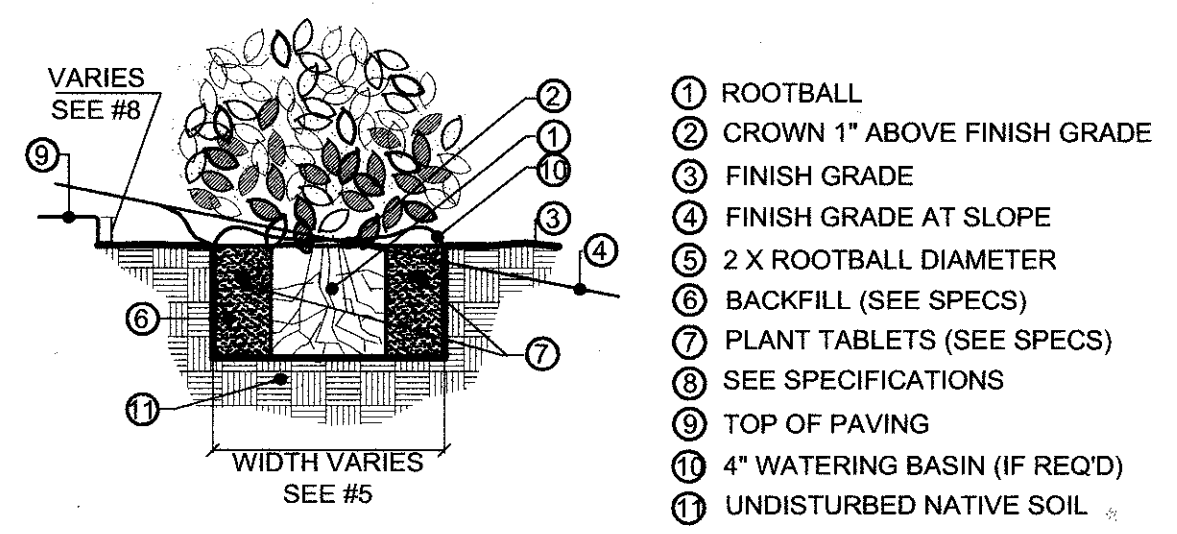
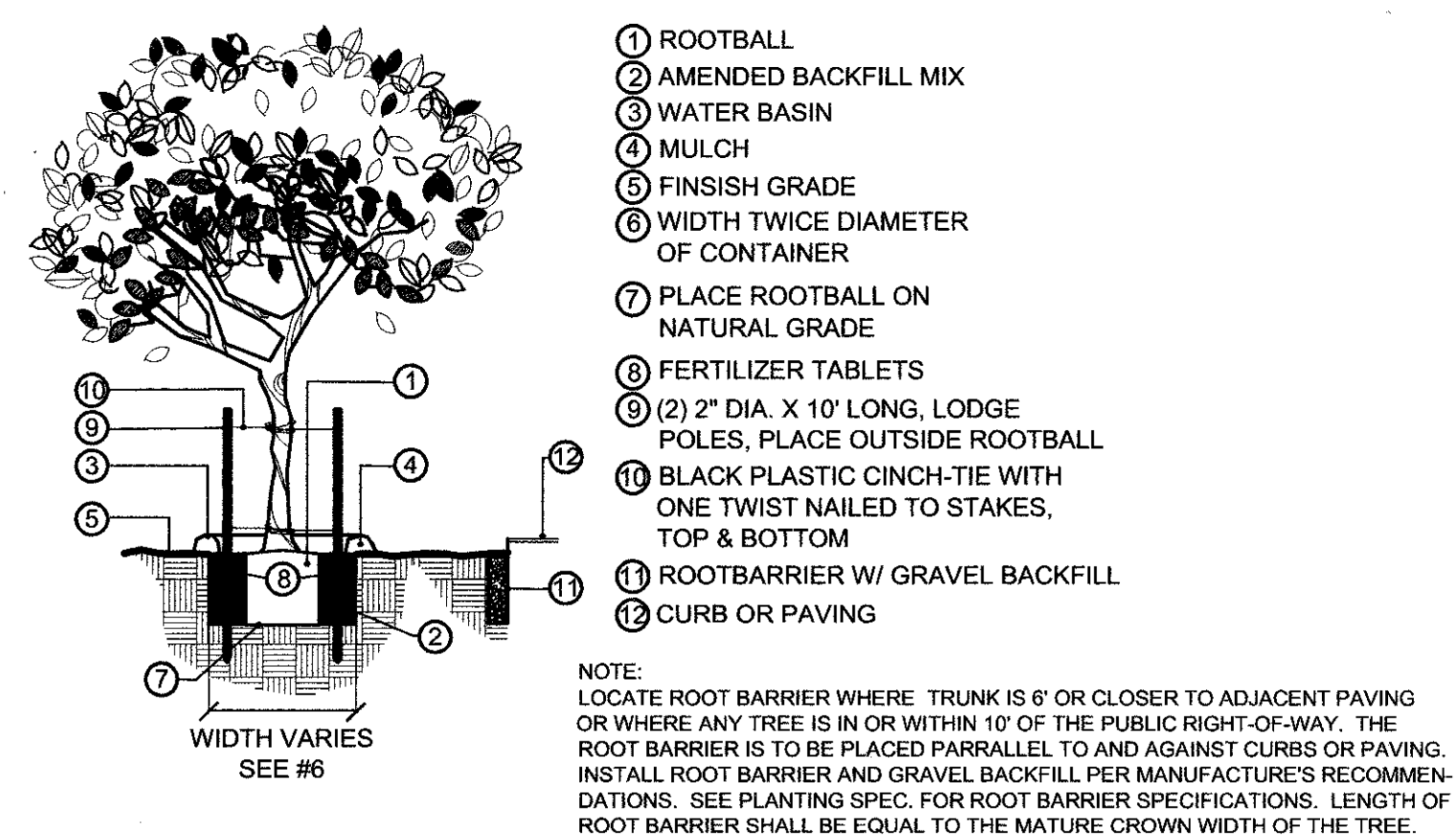


PLANS	BY	DATE
DESIGNED	ML	
CHECKED	JK	
DELINEATED		

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858-586-6680

REGISTERED LANDSCAPE ARCHITECT

DATE



A TREE STAKING
NOT TO SCALE-ELEVATION

B SHRUB PLANTING
NOT TO SCALE-ELEVATION

PLANT MATERIAL SCHEDULE

SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS	MIN. HT.	MIN. SPRD.	TOTALS
TREES						
QUERCUS AGRIFOLIA	COAST LIVE OAK	15 Gal.	Straight trunk, full head, stake	6'-7"	5'-6"	7
SALIX GOODLINGII	BLACK WILLOW	15 Gal.	Straight trunk, full head, stake	6'-7"	5'-6"	12
SHRUBS						
BACCHARIS SALICIFOLIA	MULE FAT	5 Gal.	Full & bushy	24"-30"	24"-30"	24
JUNCUS MEXICANUS	MEXICAN RUSH	5 Gal.	Full & bushy	24"-30"	24"-30"	28
MALOSMA LAURINA	LAUREL LEAF SUMAC	5 Gal.	Full & bushy	24"-30"	24"-30"	18
GROUND COVER						
HYDROSEED MIX AS NOTED ON LP-1						

SDP213
LP-2