DRAWING NUMBER

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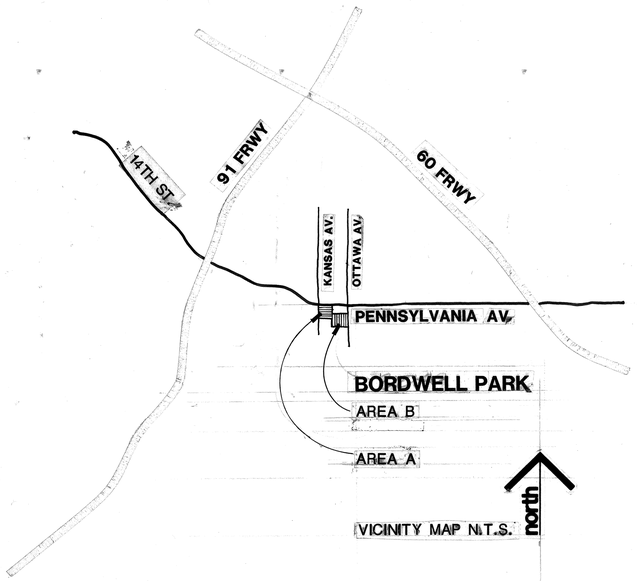
BO-84

DRAWING NUMBER



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3	D-2	DEMOLITION PLAN (AREA B)
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Riverside

PLAN NO. O506

FUNDING SOURCE: PARK DEVELOPMENT FEES

IMPROVEMENT PLANS FOR :

BORDWELL PARK

2008 PENNSYLVANIA AVENUE, RIVERSIDE CALIFORNIA

This site is served by the following Utilities:

Electric –	Riverside Public Utilities	782-5413
Gas –	Southern California Gas Company	800-367-2691
On-site Irrigation –	Park and Recreation Department/ Facilities Maintenance Division	782-5306
Sewer	Riverside Public Works	351-6145
Telephone –	Pacific Bell	811-7711
Water –	Riverside Public Utilities	782-5419

INSPECTORS:

DAILY GENERAL INSPECTOR –	Park Projects Inspector	782-5223
BUILDING CODE COMPLIANCE –	Riverside Planning Department, Building Division	782-5361
OFF-SITE IMPROVEMENTS –	Riverside Public Works Department	782-5341
BACKFLOW DEVICES –	Riverside Public Utilities, Backflow Technician	782-5420

APPROVALS – PARK AND RECREATION DEPARTMENT

Dee W. Bachman — 5/30/90
DIRECTOR — DATE

Terry Wilson — 5/30/90
PARK SUPERINTENDENT — DATE

Ronald L. Reese — 5/30/90
RECREATION SUPERINTENDENT — DATE

Robert L. Nelson — 5-23-90
PARK PLANNING COORDINATOR — DATE

Carol M. Dyer — 6-4-90
PLANNING DEPARTMENT — DATE
EPC REVIEW REQUIRED
0-4-878

Sheet: 1 of 26

DWG. No. T-1

PLAN NO. P-0506

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

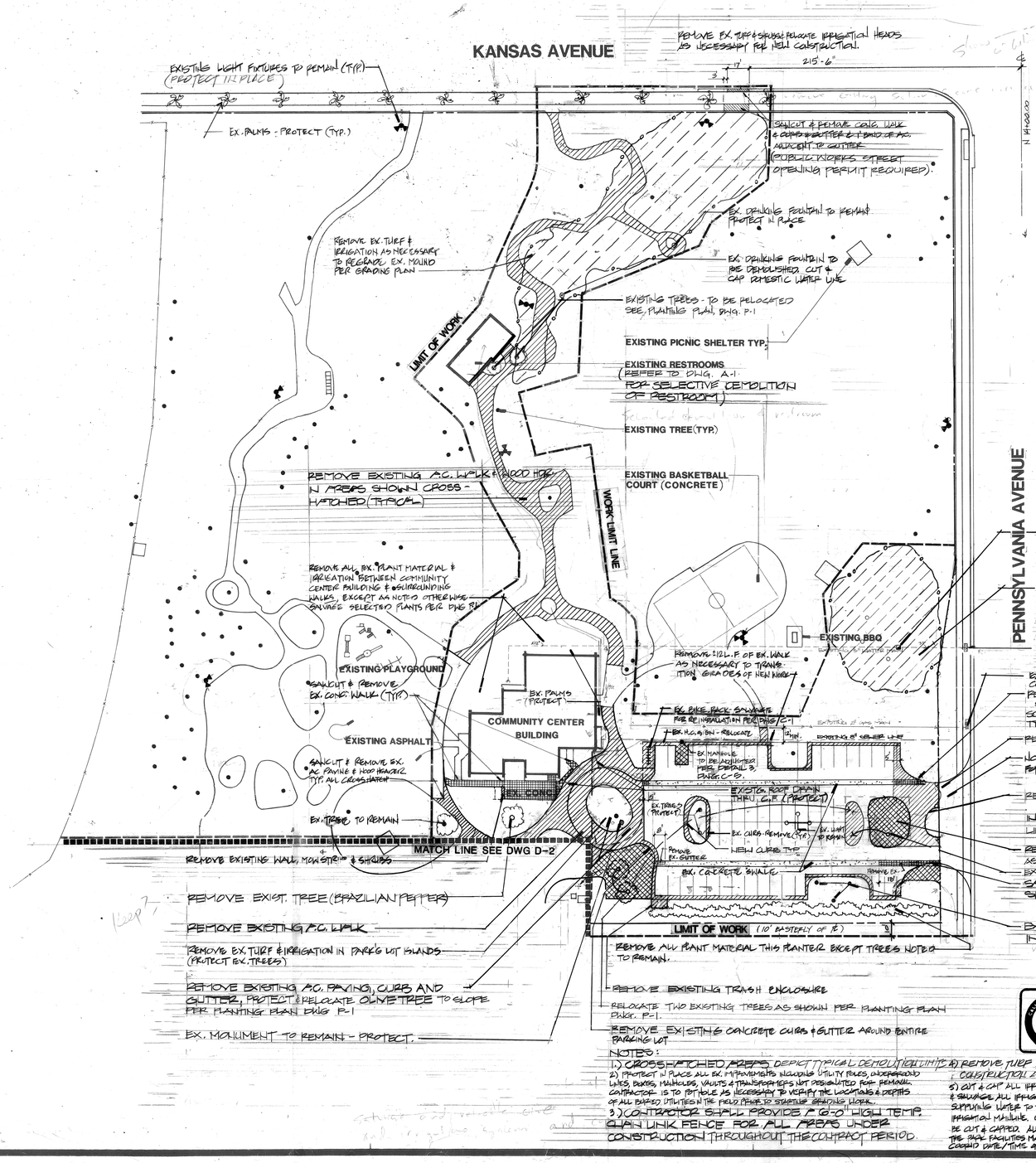
DRAWING NUMBER
BO-83

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

LEGEND

- WORK LIMIT LINE
- MATCH LINE
- PROPERTY LINE
- EXISTING TREES TO REMAIN
- EXISTING LIGHTS TO REMAIN
- APPROX. LIMIT OF GRADING



NOTES:

1.) CROSSHATCHED AREAS DEPICT TYPICAL DEMOLITION LIMITS
2.) PROTECT IN PLACE ALL EX. IMPROVEMENTS INCLUDING UTILITY POLES, UNDERGROUND LINES, BOXES, MANHOLES, VALVES & TRANSFORMERS NOT DESIGNATED FOR REMOVAL. CONTRACTOR IS TO POTHOLE AS NECESSARY TO VERIFY THE LOCATIONS & DEPTHS OF ALL BURIED UTILITIES IN THE FIELD PRIOR TO STARTING GRADING WORK.
3.) CONTRACTOR SHALL PROVIDE 6'-0" HIGH TEMP. CHAIN LINK FENCE FOR ALL AREAS UNDER CONSTRUCTION THROUGHOUT THE CONTRACT PERIOD.
4) REMOVE TURF WITHIN LIMIT OF WORK LINE AS NECESSARY FOR NEW CONSTRUCTION AND REGRADING OF THE SITE.
5) CUT & CAP ALL IRRIGATION LATERALS WITHIN THE CONST. AREA. REMOVE & SALVAGE ALL IRRIGATION HEADS & VALVES IN THE CONST. AREA. VALVES SUPPLYING WATER TO THE CONST. AREA ONLY SHALL BE CUT & CAPPED AT EX. IRRIGATION MAINLINE. UNDER NO CIRCUMSTANCE SHALL THE EX. IRRIGATION MAINLINE BE CUT & CAPPED. ALL SALVAGED IRRIGATION PARTS SHALL BE DELIVERED TO THE PARK FACILITIES MAINTENANCE OFFICES AT THE CORPORATION YARD BY THE CONTRACTOR. COORDINATE DATE/TIME OF DELIVERY WITH THE PARK PROJECT INSPECTOR A MIN. OF 48 HRS. (2 WORKING DAYS) IN ADVANCE OF DELIVERY.

city of riverside
park & recreation
department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

AREA A
DEMOLITION PLAN

Date:
Revisions:
no. date by

Sheet: 2 of 26

DWG. No. D-1

PLAN NO. P-0506

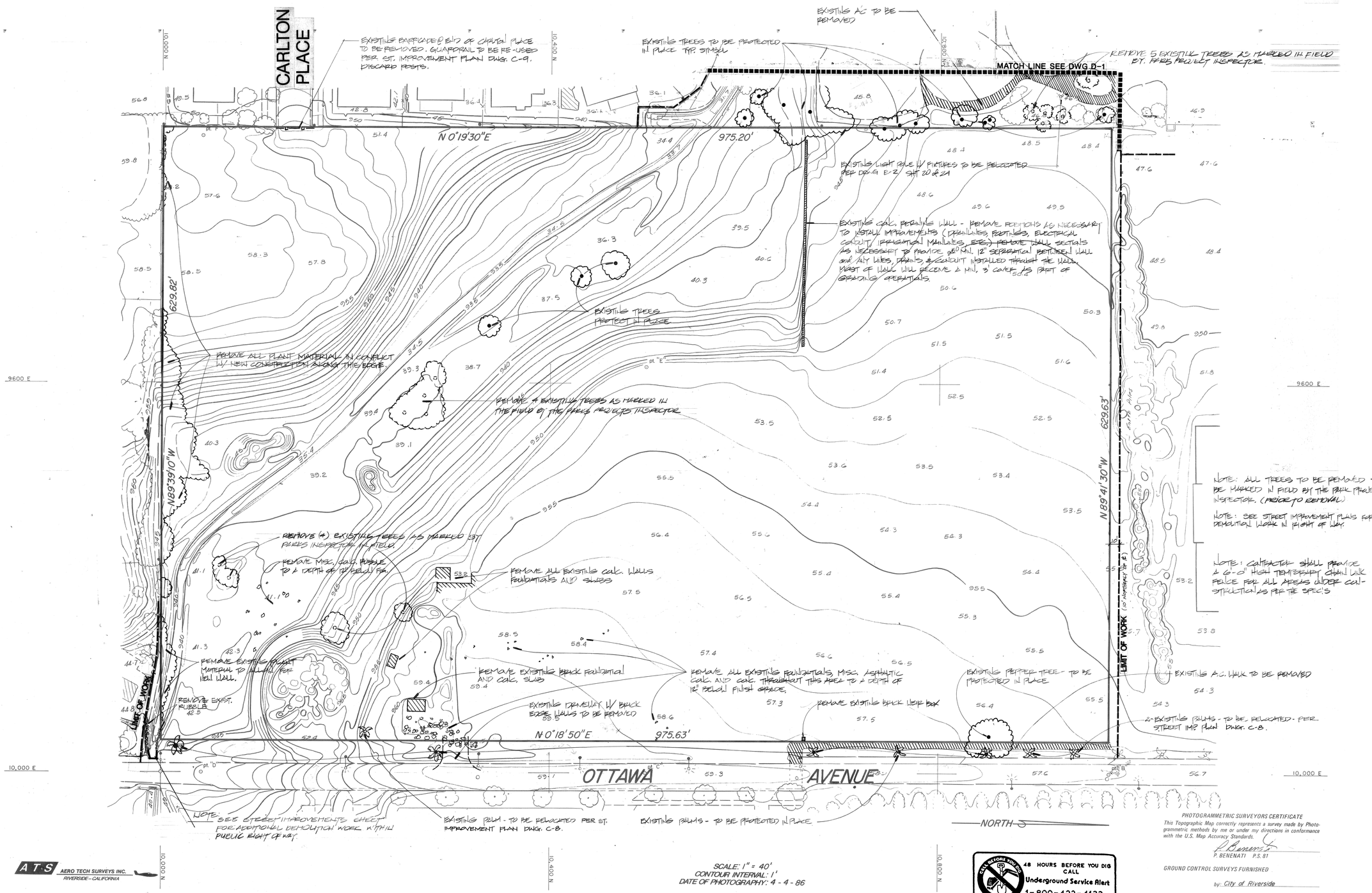
ALL WORK THIS SHEET IN BASE BID ITEM A

DRAWING NUMBER 80-82

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

POSITION EDGE OF PRINT ON THIS LINE



NOTE: ALL TREES TO BE REMOVED SHALL BE MARKED IN FIELD BY THE PARK PROJECTS INSPECTOR. (PRIOR TO REMOVAL)

NOTE: SEE STREET IMPROVEMENT PLANS FOR ALL DEMOLITION WORK IN RIGHT OF WAY.

NOTE: CONTRACTOR SHALL PROVIDE A 6'-0" HIGH TEMPORARY CHAIN LINK FENCE FOR ALL AREAS UNDER CONSTRUCTION AS PER THE SPEC'S

A·T·S AERO TECH SURVEYS INC. RIVERSIDE–CALIFORNIA

SCALE: 1" = 40'
CONTOUR INTERVAL: 1'
DATE OF PHOTOGRAPHY: 4 - 4 - 86

CALL BEFORE YOU DIG
48 HOURS BEFORE YOU DIG CALL
Underground Service Alert
1-800-422-4133

PHOTOGRAMMETRIC SURVEYORS CERTIFICATE
This Topographic Map correctly represents a survey made by Photogrammetric methods by me or under my directions in conformance with the U.S. Map Accuracy Standards.
P. BENENATI P.S. 81

GROUND CONTROL SURVEYS FURNISHED
by: City of Riverside

city of riverside park & recreation department
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522
(714) 782-5223

CITY OF RIVERSIDE
BORDWELL PARK

AREA B
DEMOLITION PLAN

Date:
Revisions:

no.	date	by

drawn by:

Sheet: 3 of 26

DWG. No. D-2

PLAN NO. P-0506

ALL WORK THIS SHEET IN BASE BID ITEM A

DRAWING NUMBER

DRAWING NUMBER

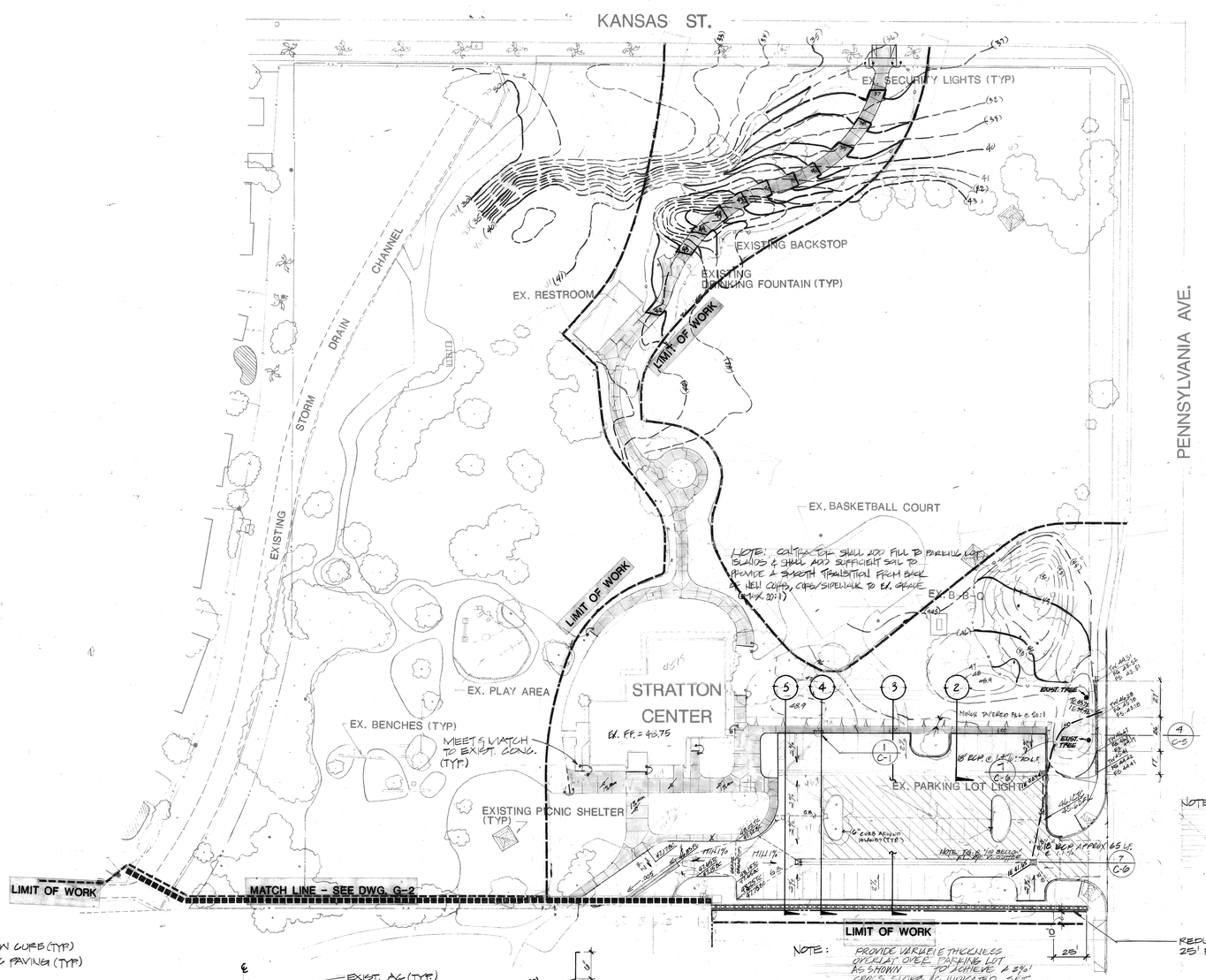
DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER BO-81

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE



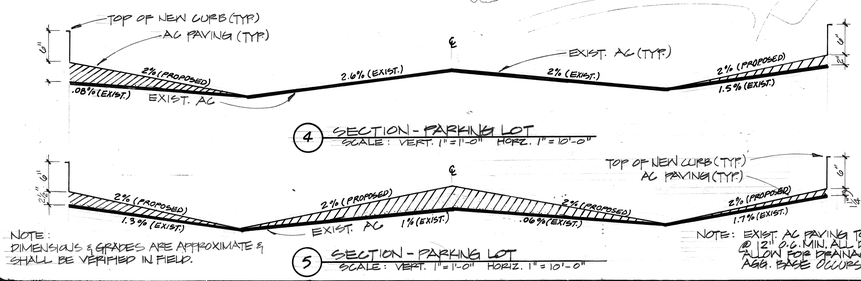
GENERAL NOTES:

1. All grading shall conform to Chapter 70 of the current City adopted edition of the Uniform Building Code.
2. All provisions of the preliminary soils reports prepared by Geo-Etka, Inc. dated May 25, 1989, shall be complied with during grading operations. City Business Tax Certificate No. 031544, Expiration Date: 5/23/91.
3. This plan is for grading purposes only. Issuance of a permit based on this plan does not constitute approval of driveway locations or sizes, parking lot, structural sections or layout, building locations, off-site drainage facilities or other items not related directly to the basic grading operation.
4. Certification from the registered civil engineer stating the the grading has been completed per the approved plan, and a compaction report from the soils engineer on any fill areas are required prior to building permits being issued.
5. Contractor is responsible for erosion, dust and temporary drainage control during grading operations.
6. Any on-site walls shown on this plan require separate review, approval and a building permit from the Building Division, Planning Department. Any necessary retaining walls on the perimeter of this site shall be in place and approved by the Building Inspector prior to issuance of the grading permit.
7. Any improvements constructed in the public right-of-way will require a separate construction permit and inspection from the Public Works Department.
8. Any walls, fences, structures and/or appurtenances adjacent to this project are to be protected in place. If grading operations damage or adversely affect said items in any way, the contractor and/or developer is responsible for working out an acceptable solution to the satisfaction of the affected property owner(s).
9. Details of any proposed on-site drainage structures, walls, cribbing, surface protection, etc. to be shown on plans.
10. Recommendations and conclusions in the Preliminary Soils Report are to be incorporated in the design of the grading plan.
12. The Grading Permit Number shall be shown on all plans and correspondence relating to the Grading Permit. (The Grading Permit Number assigned after the grading plan is approved and the Grading Permit is obtained).
13. Contractor shall review Demolition Plans for location of existing underground utilities prior to beginning trenching operations. All existing lines shown to remain shall be protected in place. If such lines are damaged, contractor shall repair per requirements pertaining at no cost to the City.
14. Quantities as follows are for the convenience of the designer and for permit issuance purposes only, for bid purposes, all bidder's shall perform their own plan take-offs to verify actual quantities:

    Total Cut: 627 Cyds. Note: Area "A" to borrow from Area "B"
    Total Fill: 1600 Cyds. Total acres 2.9

15. See Street Improvement Plans R-3045 (Dwgs C-7 and C-8) for additional work within public right-of-way.
16. The contractor/developer is responsible for ensuring that retaining walls do not interfere with the provisions of utilities.
17. It is the grading contractor's responsibility to ensure that adequate compaction has been attained on the entire grading site, including fill areas outside the building pads and on all fill slopes.
18. It is the soil engineer's responsibility to observe and perform compaction tests during the grading to evaluate the preparation of the natural ground surface to receive the fill and the compaction attained in the fill, including fill areas outside the building pads and on all fill slopes.
19. Earthwork quantities are shown for grading permit purposes only, and the City of Riverside is not responsible for their accuracy.
20. Contractor is responsible for erosion, dust and temporary drainage control during grading operations.
    a. All manufactured slopes in excess of 5 feet in vertical height are to be protected from erosion during rough grading operations and, thereafter, until installation of final groundcover. (See landscape plans for final groundcover).
    b. All slope protection swales to be constructed at the same time as banks are graded.
    c. The developer and his contractor are responsible for implementation and maintenance of the erosion control measures shown on this plan and also to provide any additional erosion control measures (e.g., hydroseeding, mulching of straw, and sand bagging, diversion ditches, retention basins, etc.) dictated by field conditions to prevent erosion and/or the introduction of dirt, mud or debris to existing public streets and/or onto adjacent properties during any phase of construction operations. Special attention shall be given to additional erosion control measures noted above during the period October 15 to April 15.
    d. After a rainstorm, all silt and debris shall be removed from check berms and check dams. Silt and debris shall be removed from City of Riverside streets. This requirement shall remain in effect until City acceptance of the subdivision that drains onto City streets.

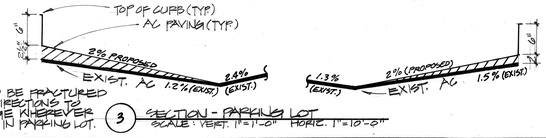
0177/m - 06/01/90



4 SECTION - PARKING LOT
SCALE: VERT. 1" = 1'-0" HORIZ. 1" = 10'-0"

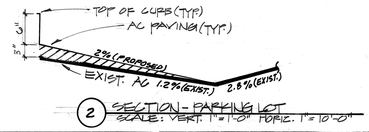
NOTE: DIMENSIONS & GRADES ARE APPROXIMATE & SHALL BE VERIFIED IN FIELD.

5 SECTION - PARKING LOT
SCALE: VERT. 1" = 1'-0" HORIZ. 1" = 10'-0"



NOTE: EXIST. AC PAVING TO BE FRACTURED @ 12" O.C. MIN. ALL DIRECTIONS TO ALLOW FOR DRAINAGE WHEREVER AGG. BASE OCCURS IN PARKING LOT.

3 SECTION - PARKING LOT
SCALE: VERT. 1" = 1'-0" HORIZ. 1" = 10'-0"



2 SECTION - PARKING LOT
SCALE: VERT. 1" = 1'-0" HORIZ. 1" = 10'-0"

LEGEND

ABREV./SYMB.	DESCRIPTION
	MASONRY WALL
F.G.	FINISH GRADE
S.G.	SUB GRADE
T.C.	TOP OF CURB
T.G.	TOP OF GRATE
T.W.	TOP OF WALL
B.C.	BOTTOM OF CURB
INV./I.E.	INVERT ELEVATION
(555)	EXISTING CONTOUR & ELEVATION
555	PROPOSED CONTOUR & ELEVATION
	DRAIN INLET
50	PROPOSED STORM DRAIN
	NEW CONCRETE
	APPROXIMATE LIMIT OF GRADING WORK
	LIMIT OF WORK
	MATCH LINE

48 HOURS BEFORE YOU DIG CALL
Underground Service Alert
1-800-422-4133

north

EPC REVIEW REQUIRED
0-4-878

Carl M. Ryan 6/4/90

SCALE: 1" = 40' - 0"

REGISTERED LANDSCAPE ARCHITECT
ROBERT L. JOHNSON NO. 1747
MAY 8, 1990
STATE OF CALIFORNIA

city of riverside
park & recreation
department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

AREA A
GRADING PLAN

Date
Revisions

Sheet 4 of 26

DWG. No. G-1

ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

DRAWING NUMBER

DRAWING NUMBER

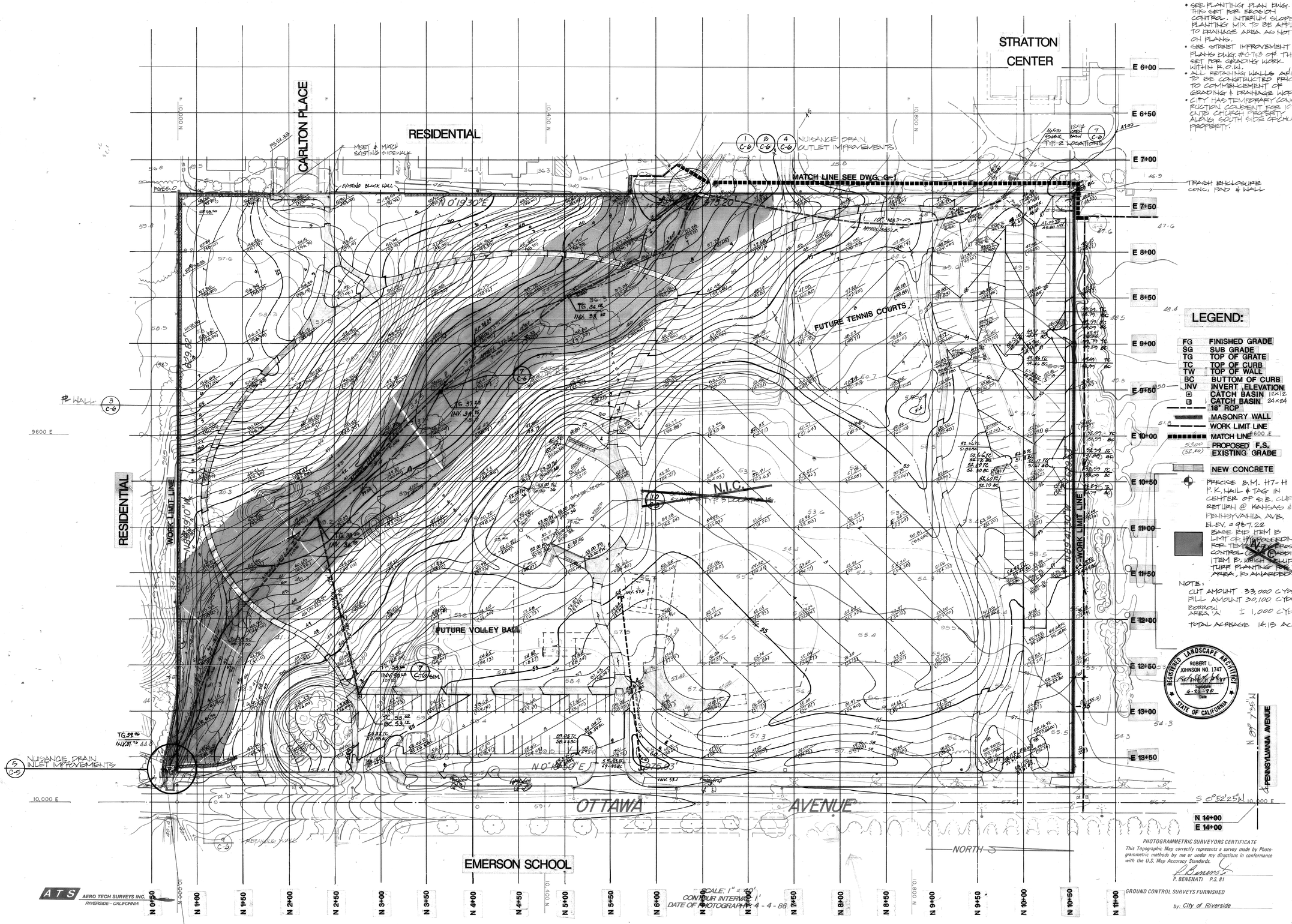
DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER
B0-80

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE



GENERAL NOTES

- SEE PLANTING PLAN DWG. P-2 THIS SET FOR EROSION CONTROL - INTERIM SLOPE PLANTING MIX TO BE APPLIED TO DRAINAGE AREA AS NOTED ON PLANS.
- SEE STREET IMPROVEMENT PLANS DWG. #G-1 & 3 OF THIS SET FOR GRADING WORK WITHIN R.O.W.
- ALL RETAINING WALLS ARE TO BE CONSTRUCTED PRIOR TO COMMENCEMENT OF GRADING & DRAINAGE WORK.
- CITY HAS TEMPORARY CONSTRUCTION EASEMENT FOR 10'W OUTS CHURCH PROPERTY ALONG SOUTH SIDE OF CHURCH PROPERTY.

LEGEND:

FG	FINISHED GRADE
SG	SUB GRADE
TG	TOP OF GRATE
TC	TOP OF CURB
TW	TOP OF WALL
BC	BUTTOM OF CURB
INV	INVERT ELEVATION
	CATCH BASIN 12×12
	CATCH BASIN 24×24
	18" RCP
	MASONRY WALL
	WORK LIMIT LINE
	MATCH LINE
5300 (52.80)	PROPOSED F.S. EXISTING GRADE
	NEW CONCRETE

PRECISE B.M. H7-H P.K. NAIL & TAG IN CENTER OF S.E. CURB RETURN @ KANSAS & PENNSYLVANIA AVE. ELEV. = 987.22

BASE BID ITEM B LIMIT OF HYDROSEEDING FOR TEMPORARY EROSION CONTROL (ALTERNATIVE ITEM B: LIMIT OF HYDROSEED TURF PLANTING FOR THIS AREA, TO AWARDED)

NOTE:
CUT AMOUNT 33,000 CYDS.
FILL AMOUNT 30,100 CYDS.
BORROW AREA 'A' ± 1,000 CYDS.
TOTAL ACREAGE 14.15 AC

REGISTERED LANDSCAPE ARCHITECT
ROBERT L. JOHNSON NO. 1747
Signature
6-21-90
Date
STATE OF CALIFORNIA

PHOTOGRAMMETRIC SURVEYORS CERTIFICATE
This Topographic Map correctly represents a survey made by Photogrammetric methods by me or under my directions in conformance with the U.S. Map Accuracy Standards.
P. BENENATI P.S. 81

GROUND CONTROL SURVEYS FURNISHED
by: City of Riverside

ATS AERO TECH SURVEYS INC.
RIVERSIDE - CALIFORNIA

SCALE: 1" = 40'
CONTOUR INTERVAL: 1'
DATE OF PHOTOGRAPHY: 4 - 4 - 86

EPC REVIEW REQUIRED
0-4-878
Carol M. Dyer 6/4/90

SCALE 1:40'-0"
NORTH

48 HOURS BEFORE YOU DIG CALL
Underground Service Alert
1-800-422-4133

city of riverside park & recreation department
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522
(714) 782-5223

CITY OF RIVERSIDE
BORDWELL PARK

AREA B
GRADING PLAN

Date
Revisions:

Sheet 5 of 26

DWG. No. G-2

PLAN NO. P-0506

ALL WORK THIS SHEET IN BASE BID ITEM A (EXCEPT EROSION CONTROL HYDROSEED)

DRAWING NUMBER

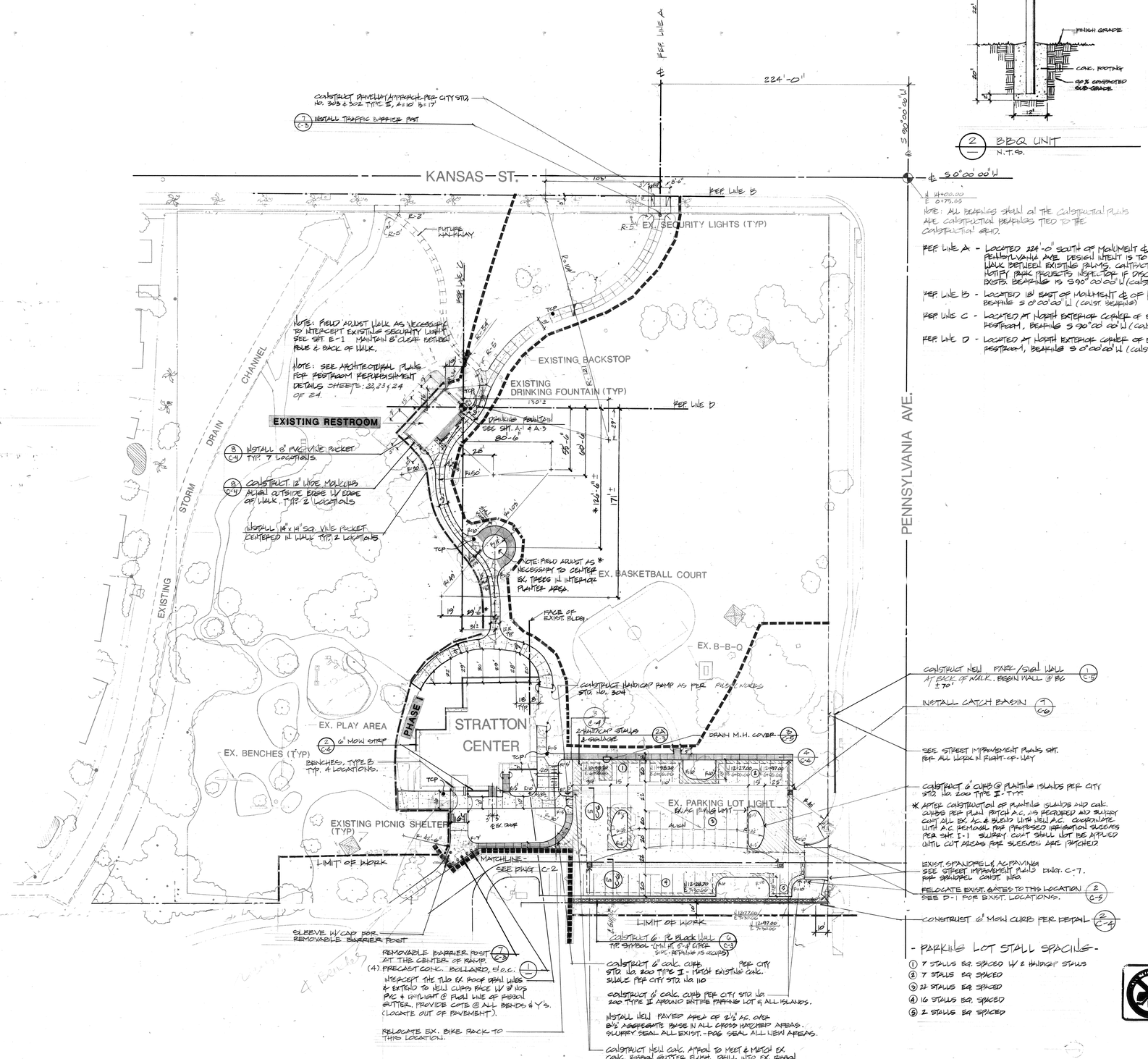
DRAWING NUMBER

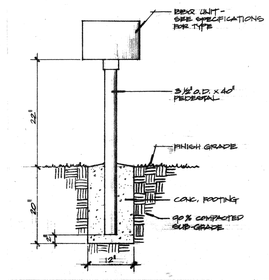
DRAWING NUMBER

DRAWING NUMBER

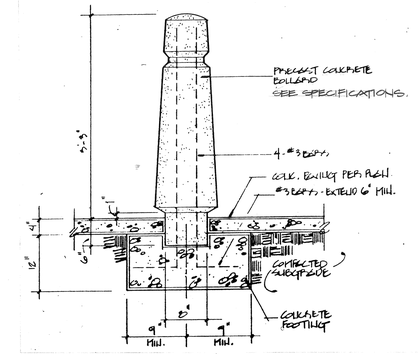
DRAWING NUMBER

DRAWING NUMBER

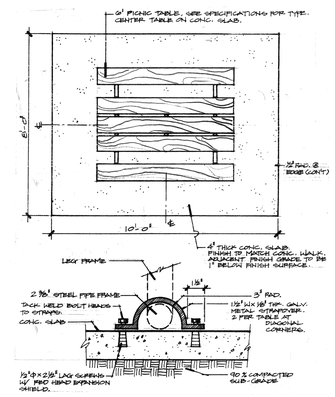




2 BBQ UNIT
N.T.S.



1 BOLLARD
1"=1'-0"



3 PICNIC TABLE & CONC. SLAB
N.T.S.

LEGEND

- 4" THICK CONCRETE WALK (3/C-4)
- 6" THICK CONCRETE WALK (3/C-4)
- AC OVER AGGREGATE
- PHASE LINE
- WORK LIMIT LINE
- MATCH LINE
- PROPERTY LINE
- ● TCP — TRASH CAN POST

NOTE: CONTRACTOR TO INCLUDE PICNIC TABLE & CONC. SLAB (DETAIL 3 OF THIS SHEET) AND BBQ UNIT (DETAIL 2 OF THIS SHEET) IN BID. REFER TO SPECIFICATIONS FOR QUANTITY AND BID SCHEDULE. LOCATIONS OF PICNIC TABLE & CONC. SLAB & BBQ UNIT WILL BE DETERMINED BY PARK PROJECT INSPECTOR IN THE FIELD.

48 HOURS BEFORE YOU DIG CALL
Underground Service Alert
1-800-422-4133

north

SCALE : 1" = 40' - 0"

city of riverside park & recreation department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

AREA A
CONSTRUCTION PLAN

Date
Revisions

Sheet 6 of 26

DWG. No. C-1

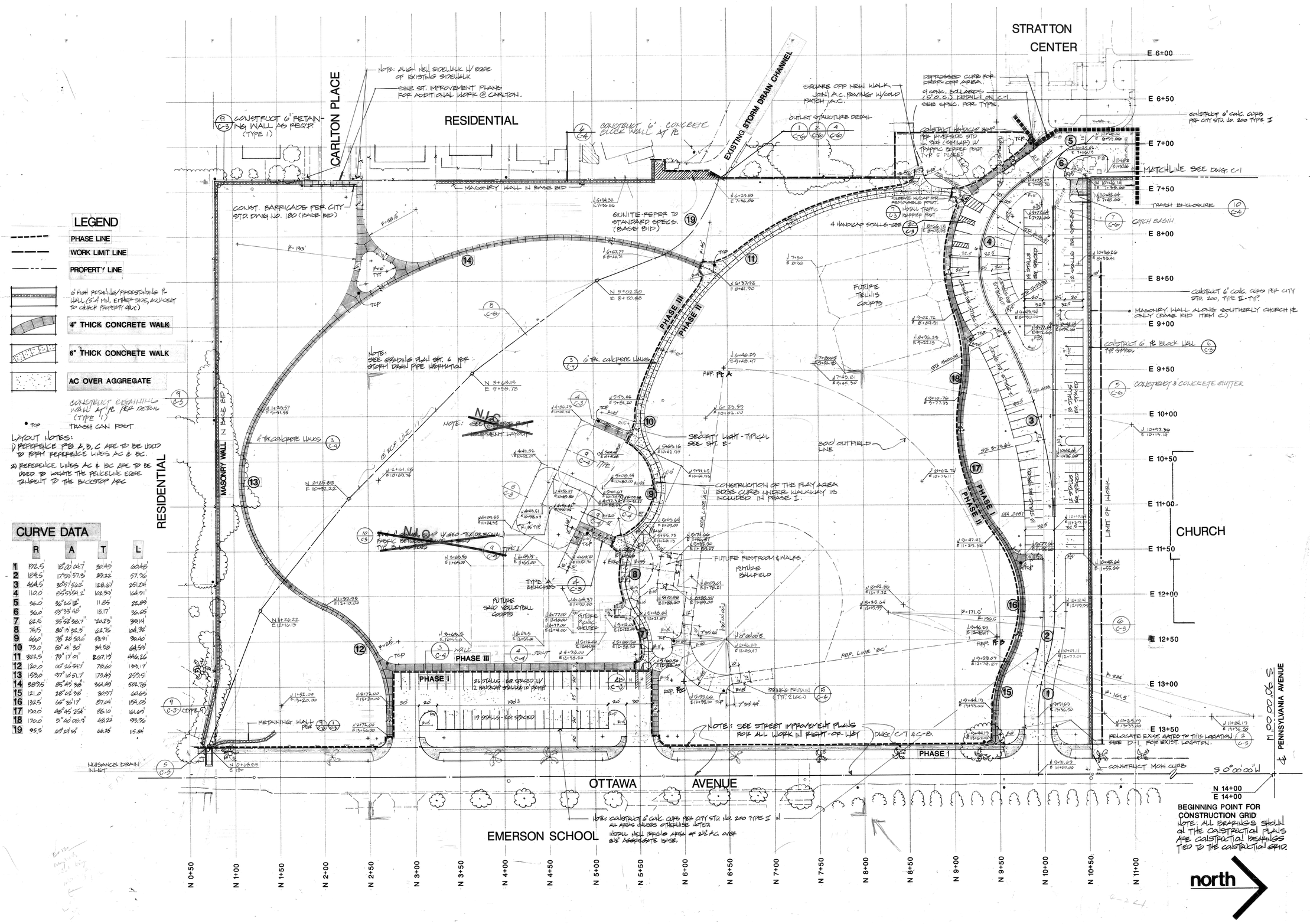
ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER BO-78

NOTE:
CONTRACTOR TO INCLUDE PICNIC TABLE & CONC. SLAB (DETAIL 3 OF C-1) AND BBQ UNIT (DETAIL 2 OF C-1) IN BID. REFER TO SPECIFICATIONS FOR QUANTITY AND BID SCHEDULE. LOCATIONS OF PICNIC TABLE & CONC. SLAB, & BBQ UNIT WILL BE DETERMINED BY PARK PROJECT INSPECTOR IN THE FIELD.



LEGEND

- PHASE LINE
- WORK LIMIT LINE
- PROPERTY LINE
- 6' HIGH RETAINING/FREESTANDING PL WALL (5'-4" MIN. EITHER SIDE, ADJACENT TO CHURCH PROPERTY ONLY)
- 4" THICK CONCRETE WALK
- 6" THICK CONCRETE WALK
- AC OVER AGGREGATE
- CONSTRUCT RETAINING WALL AT PL PER DETAIL (TYPE I)
- • TCP TRASH CAN POST

LAYOUT NOTES:
1) REFERENCE PTS A, B, C ARE TO BE USED TO FORM REFERENCE LINES AC & BC.
2) REFERENCE LINES AC & BC ARE TO BE USED TO LOCATE THE FENCELINE EDGE TANGENT TO THE BACKSTOP ARC

CURVE DATA

	R	A	T	L
1	192.5'	18°00'04.7"	30.49'	60.48'
2	184.5'	17°59'57.3"	29.22'	57.96'
3	404.5'	30°57'52.2"	128.67'	251.04'
4	110.0'	85°53'54.2"	102.53'	164.91'
5	36.0'	36°24'12"	11.85'	22.89'
6	36.0'	29°39'45"	18.17'	36.05'
7	62.5'	95°52'38.7"	60.25'	99.14'
8	76.5'	80°19'32.3"	62.76'	104.32'
9	46.0'	75°28'50.6"	53.91'	90.40'
10	73.0'	50°41'30"	34.58'	64.59'
11	322.5'	79°17'01"	267.19'	446.26'
12	120.0'	60°26'54.7"	70.60'	126.17'
13	153.0'	97°16'51.7"	179.49'	259.51'
14	387.5'	85°49'38"	354.49'	582.78'
15	121.0'	28°42'38"	30.97'	60.65'
16	192.5'	46°36'17"	87.04'	154.05'
17	100.0'	46°45'25.4"	86.10'	161.69'
18	170.0'	34°40'00.9"	48.22'	93.96'
19	95.5'	69°29'55"	66.25'	115.84'

city of riverside
park & recreation department
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522
(714) 782-5223

CITY OF RIVERSIDE
BORDWELL PARK

AREA B
CONSTRUCTION PLAN

Date:
Revisions:

no.	date	by

drawn by

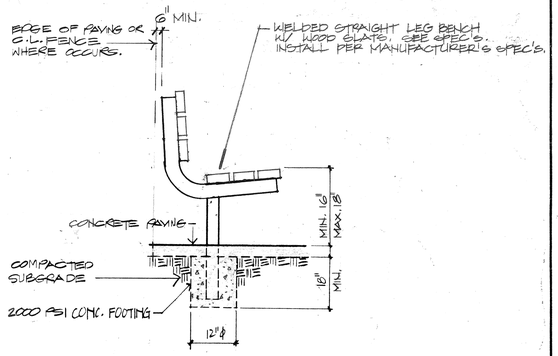
Sheet: 7 of 26

DWG. No. C-2

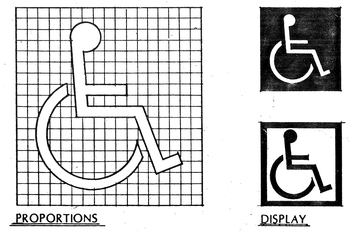
WORK THIS SHEET INCLUDES MULTIPLE BID SCHEDULES

SCALE : 1" :: 40' - 0" PLAN NO. P-0506

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

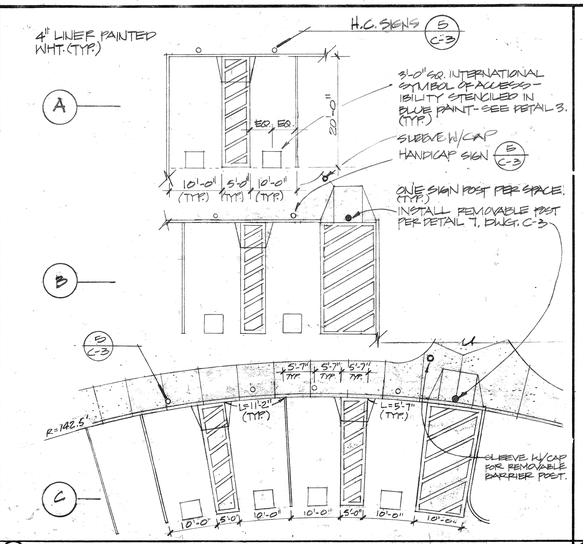


4 BENCH TYPE 'A' ADDITIVE BID SCHEDULE II - ITEM B

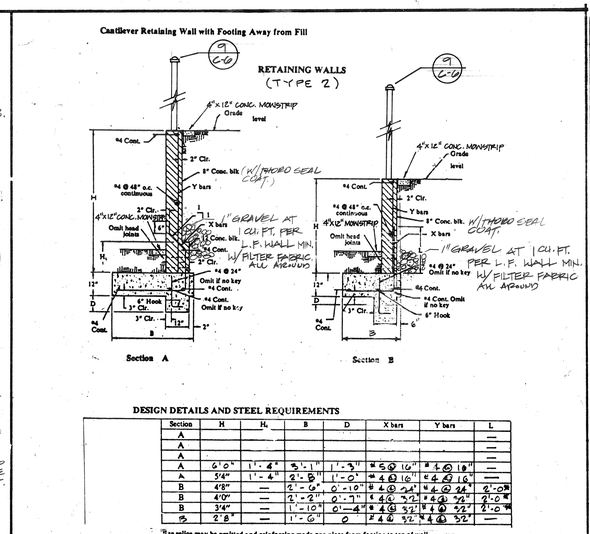


HANDICAP PARKING

3 HANDICAP SYMBOL (BASE BID 'A')



2 HANDICAP PARKING (BASE BID 'A')

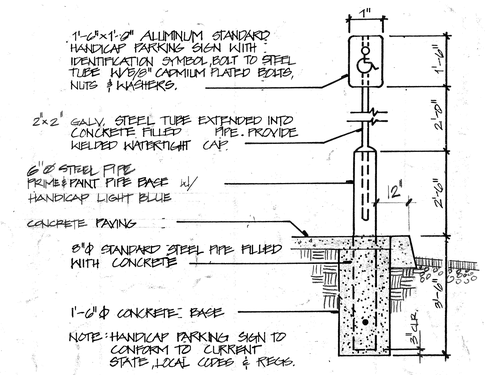


DESIGN DETAILS AND STEEL REQUIREMENTS

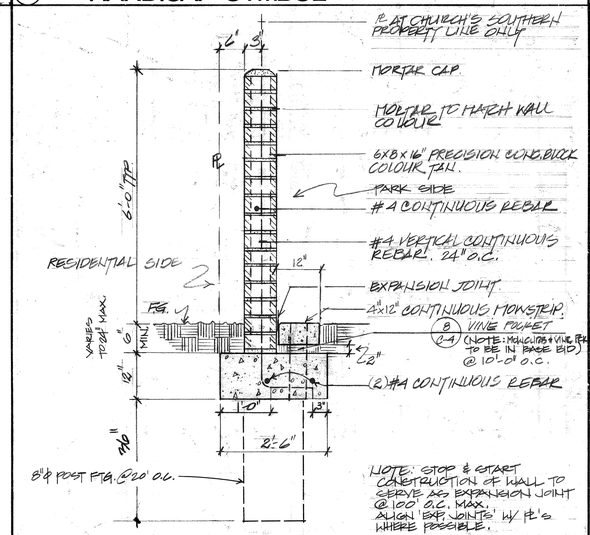
Section	H	H_1	B	D	X bars	Y bars	L
A							—
A							—
A							—
A	6'-0"	1'-4"	3'-1"	1'-3"	#5 @ 16"	#4 @ 18"	—
A	5'-4"	1'-4"	2'-8"	1'-0"	#4 @ 16"	#4 @ 18"	—
B	4'-8"	—	2'-6"	0'-10"	#4 @ 24"	#4 @ 24"	2'-0"*
B	4'-0"	—	2'-2"	0'-7"	#4 @ 24"	#4 @ 32"	2'-0"*
B	3'-4"	—	1'-10"	0'-4"	#4 @ 32"	#4 @ 32"	2'-0"*
B	2'-8"	—	1'-6"	0	#4 @ 32"	#4 @ 32"	—

*Lap splice may be omitted and reinforcing made one piece from footing to top of wall.

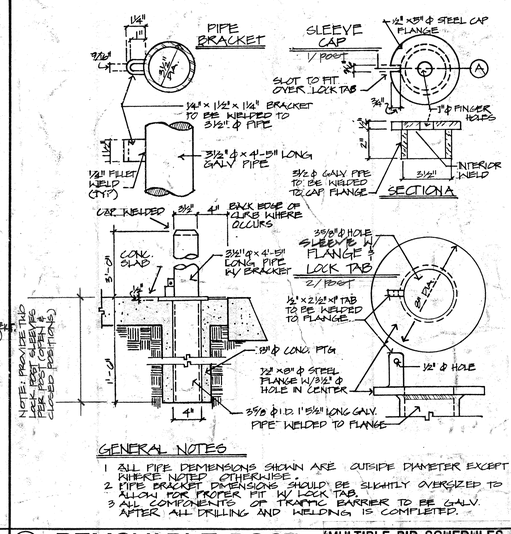
1 RETAINING WALL (TYPE 2) (BASE BID 'A')



5 HANDICAP SIGN (BASE BID 'A')



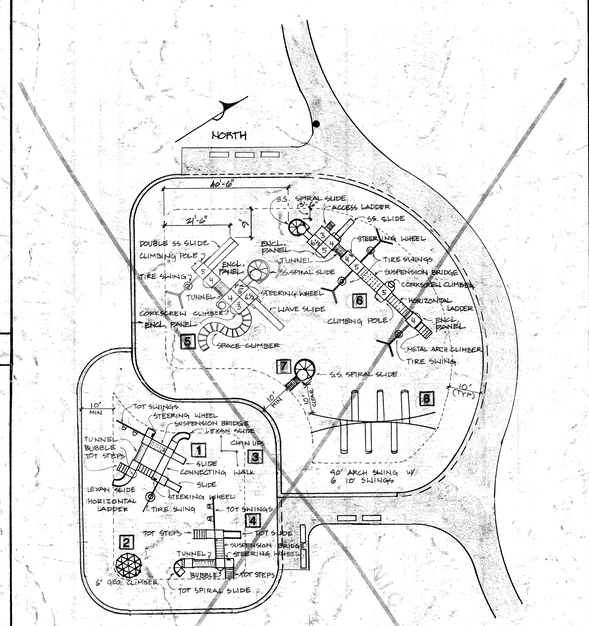
6 BLOCK WALL DETAIL (BASE BID 'A' & 'C')



GENERAL NOTES

1. ALL PIPE DIMENSIONS SHOWN ARE OUTSIDE DIAMETER EXCEPT WHERE NOTED OTHERWISE.
2. PIPE BRACKET DIMENSIONS SHOULD BE SLIGHTLY OVERSIZED TO ALLOW FOR PROPER FIT W/ LOCK TAB.
3. ALL COMPONENTS OF TRAFFIC BARRIER TO BE GALV. AFTER ALL DRILLING AND WELDING IS COMPLETED.

7 REMOVABLE POST (MULTIPLE BID SCHEDULES) (FABRICATION ITEM)

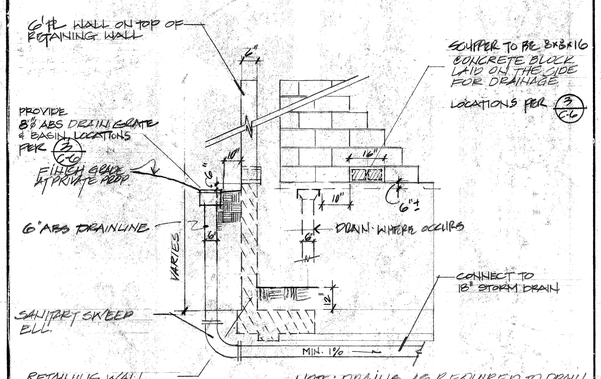


LEGEND

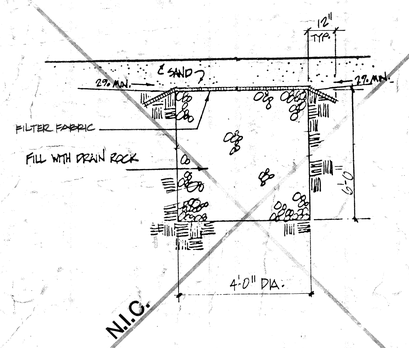
1. 'TOTTIME' DURACAPE #E-3869
2. 6' HT. EAGLE'S GLOBE CLIMBER #727
3. CHIN UPS BAR #9682
4. 'GAME TIME' DURACAPE #E-3868
5. 'GAME TIME' DURACAPE COMBINATION OF #LE9618 & #LE9617
6. 'GAME TIME' THE CRAWL-GLIDE-CLIMBER #DE6824 W/ DELETIONS & ADDITIONS.
7. 4' HT. SPIRAL GLIDE #6920
8. ARCHED SWING W/ 6 SEATS #A406 FROM L.A. STEELCRAFT.

ALL THESE ARE AVAILABLE THRU': MOORE RECREATION & PARK EQUIPMENT, INC. (800) 831-3666 OR (805) 375-1324

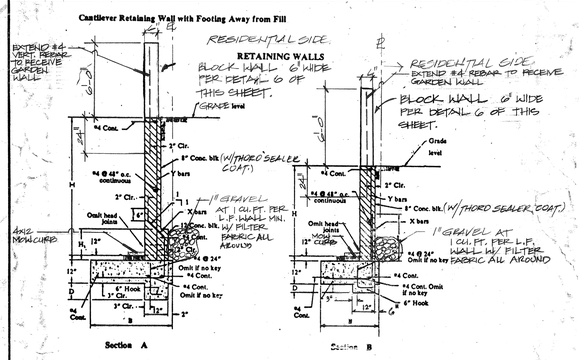
8 PLAY EQUIPMENT LAYOUT SCALE: 1" = 20' N.I.C. ADDITIVE ITEM 'C'



11 SCUPPER & DRAIN (BASE BID 'A')



10 PLAY AREA SUMP ADDITIVE ITEM 'C' N.I.C.



DESIGN DETAILS AND STEEL REQUIREMENTS

Section	H	H_1	B	D	X bars	Y bars	L
A							—
A							—
A							—
A							—
A	5'-8"	1'-4"	2'-6"	9"	#5 @ 16"	#4 @ 18"	2'-6"
B	4'-8"	—	2'-4"	6"	#5 @ 16"	#4 @ 18"	2'-6"
B	4'-0"	—	2'-2"	0"	#4 @ 24"	#4 @ 24"	2'-0"*
B	3'-4"	—	2'-1"	—	#4 @ 32"	#4 @ 32"	2'-0"*
B	2'-8"	—	2'-0"	—	#4 @ 32"	#4 @ 32"	—

*Lap splice may be omitted and reinforcing made one piece from footing to top of wall.

(BASE BID 'A')

9 RETAINING/PROPERTY LINE WALL (TYPE 1)

city of riverside
park & recreation
department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

CONSTRUCTION DETAILS (PLAYGROUND AREA)

Date:
Revisions:

no.	date	by

drawn by:

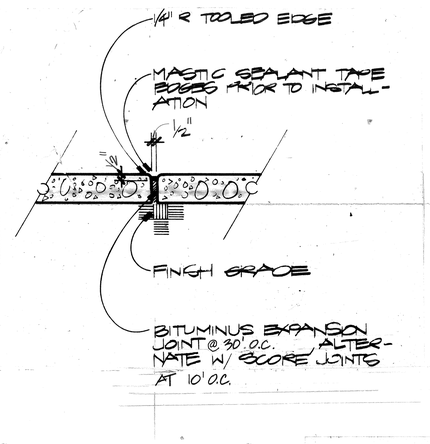
Sheet: 8 of 26

DWG. No. C-3

PLAN NO. P-0506

DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER BO-76 | DRAWING NUMBER

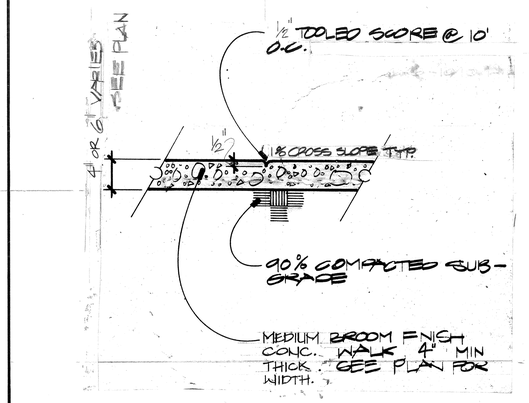
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER D75AR
POSITION EDGE OF PRINT ON THIS LINE



(MULTIPLE BID SCHEDULES)

4 EXPANSION JOINT DETAIL

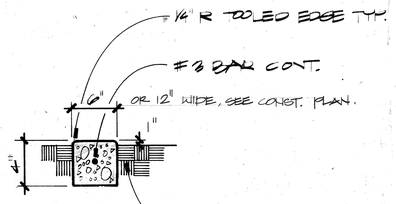
SCALE : 1 1/2" : 1'-0"



(MULTIPLE BID SCHEDULES)

3 CONCRETE WALK DETAIL

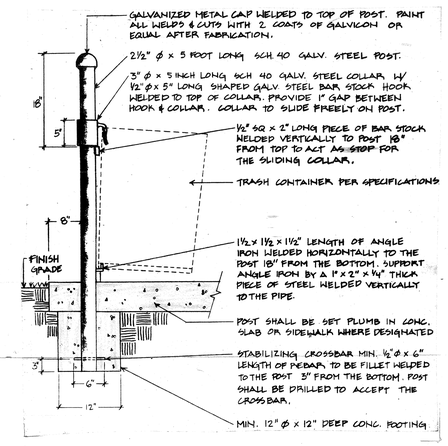
SCALE : 1 1/2" : 1'-0"



(MULTIPLE BID SCHEDULES)

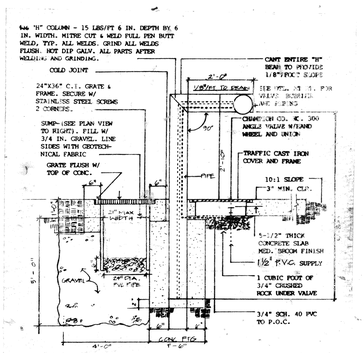
2 MOWSTRIP

SCALE : 1 1/2" : 1'-0"



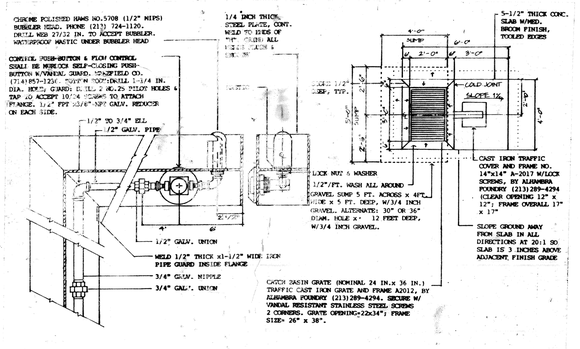
(MULTIPLE BID SCHEDULES) N.T.S.

1 TRASH CONTAINER POST DETAIL (FABRICATION ITEMS)



SECTION

NO SCALE

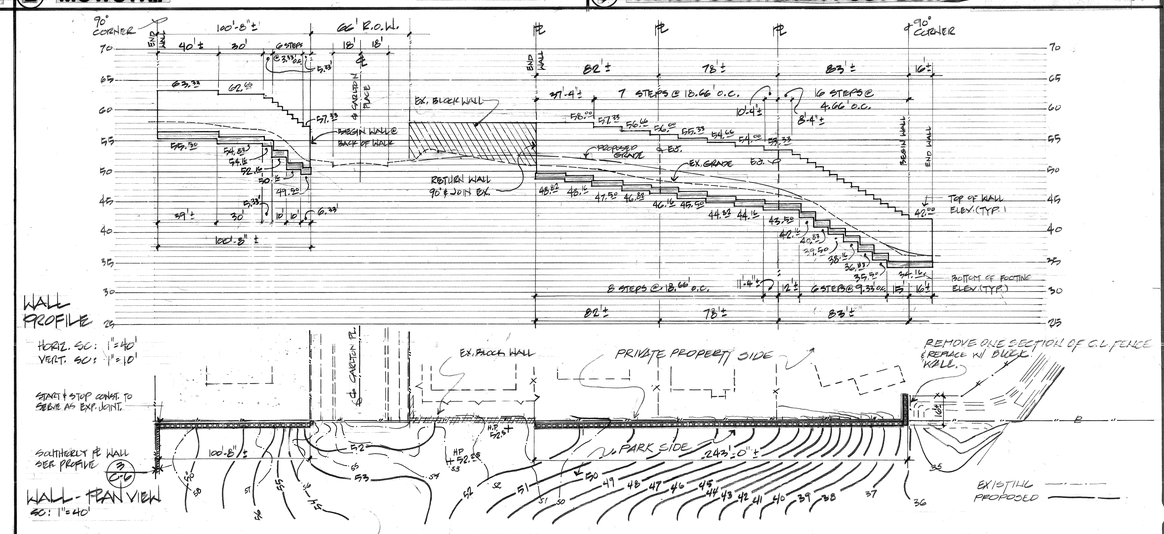


VALVE,BUBBLER AND PIPING DETAIL

PLAN VIEW

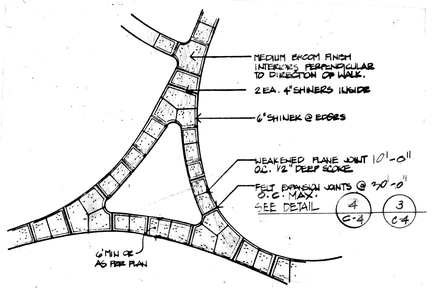
5 DRINKING FOUNTAIN/SUMP DETAIL (FABRICATION ITEMS)

N.T.S.



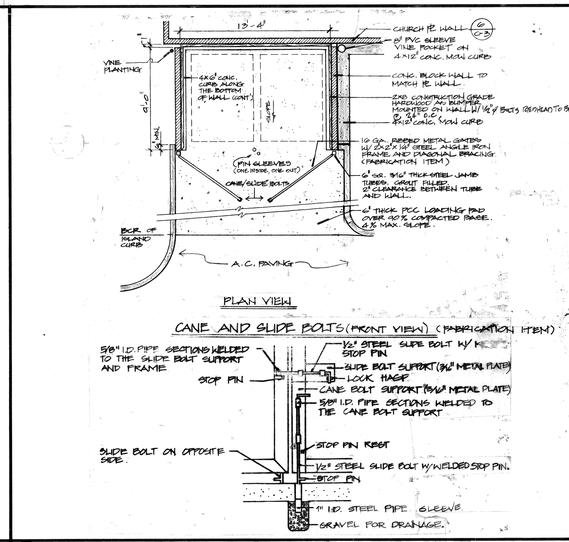
6 PROPERTY LINE WALLS PROFILE

(BASE BID 'A')



11 CONTROL JOINTS

(MULTIPLE BID SCHEDULES)

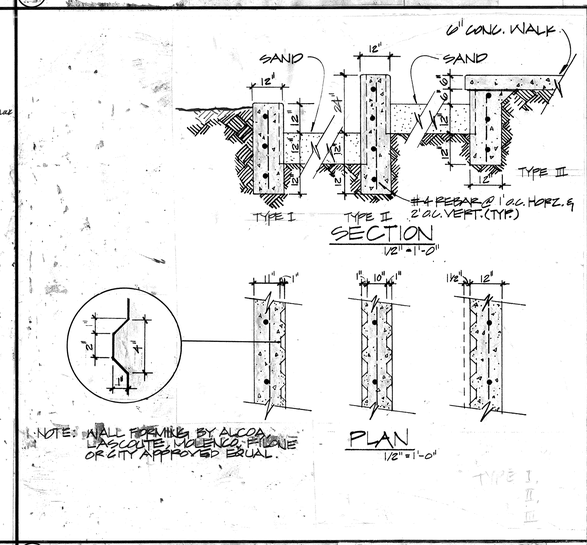


PLAN VIEW

CANE AND SLIDE BOLTS (FRONT VIEW) (FABRICATION ITEM)

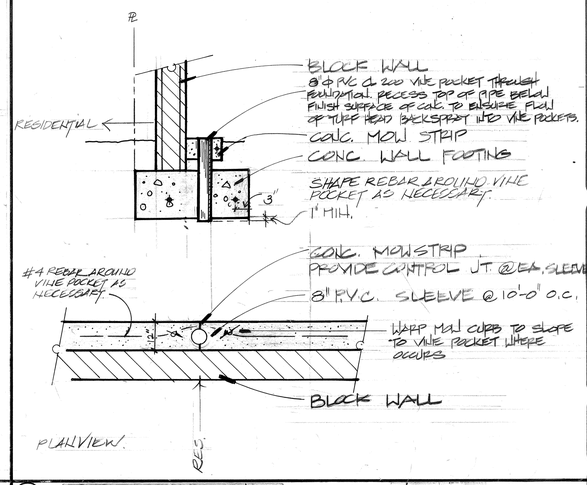
10 TRASH ENCLOSURE

(BASE BID 'A')



9 PLAYGROUND CURBS

(MULTIPLE BID SCHEDULES)



8 VINE POCKET DETAIL

(BASE BID 'A')

city of riverside
park & recreation
department
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522
(714) 782-5223

CITY OF RIVERSIDE
BORDWELL PARK

CONSTRUCTION DETAILS

Date:
Revisions:

no.	date	by

drawn by

Sheet: 9 of 26

DWG. NO. C-4

PLAN NO. P-0506

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

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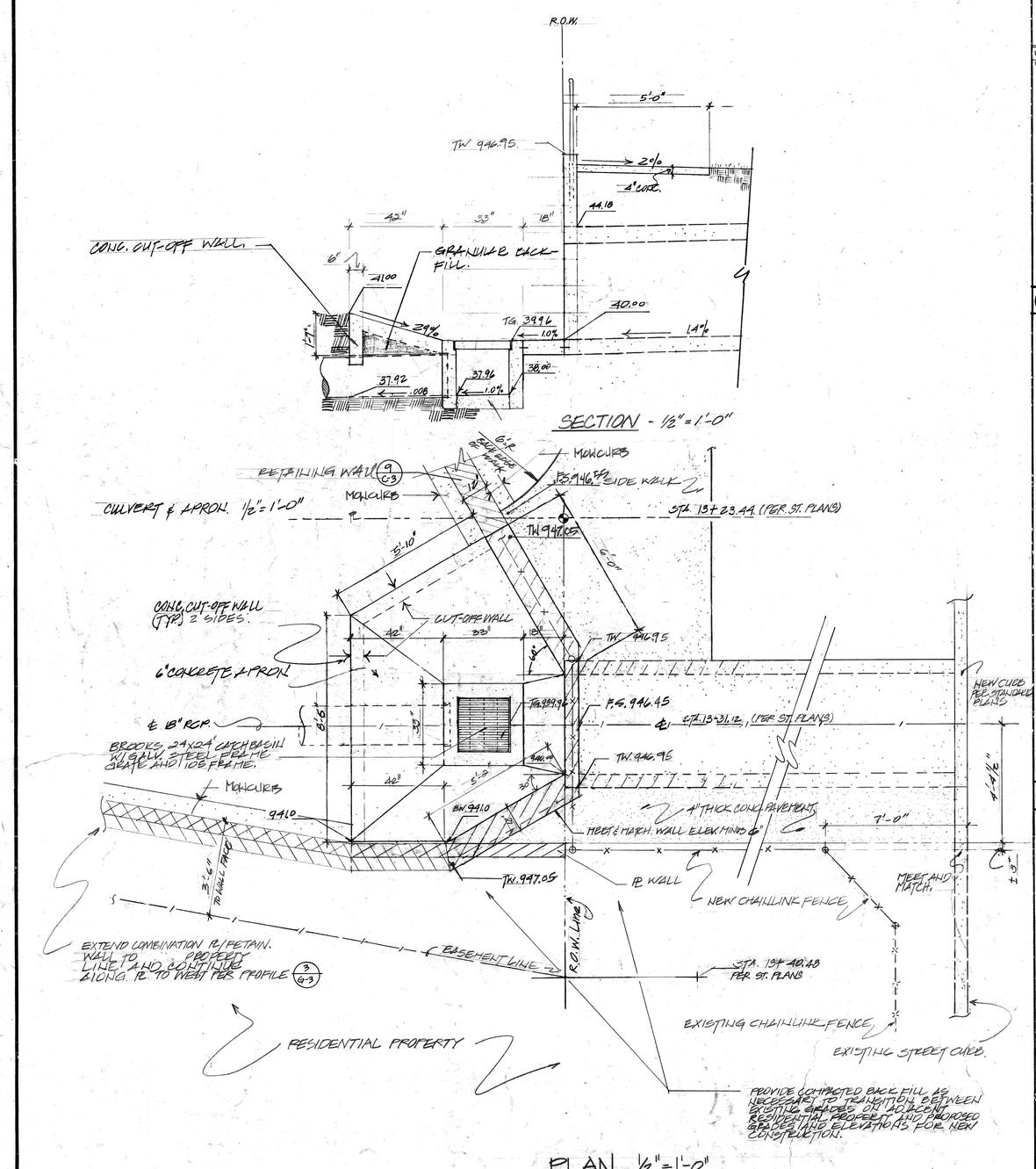
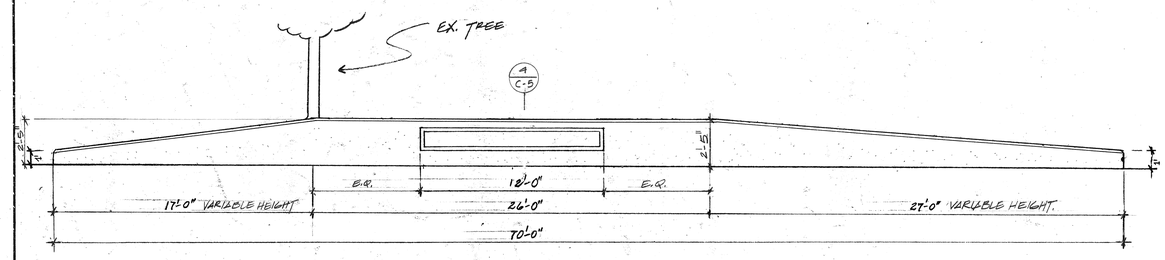
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



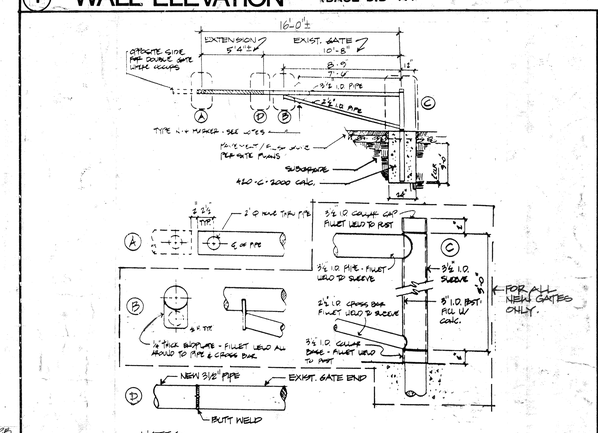
PLAN 1/2" = 1'-0"

5 NUISANCE DRAIN INLET (BASE BID 'A')



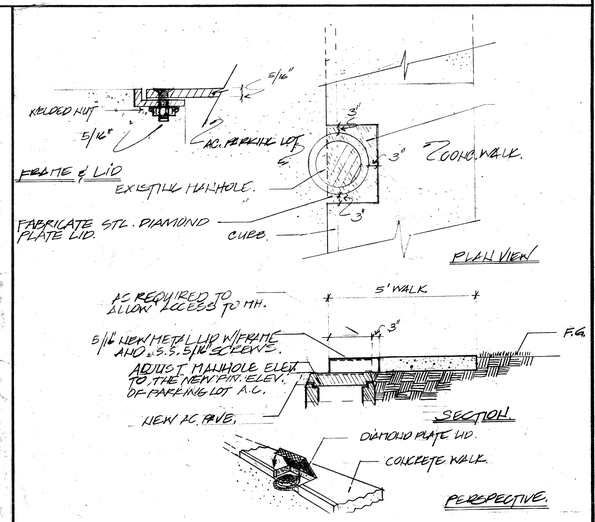
PARK SIGN ELEVATION
1/4" = 1'-0"

1 WALL ELEVATION (BASE BID 'A')

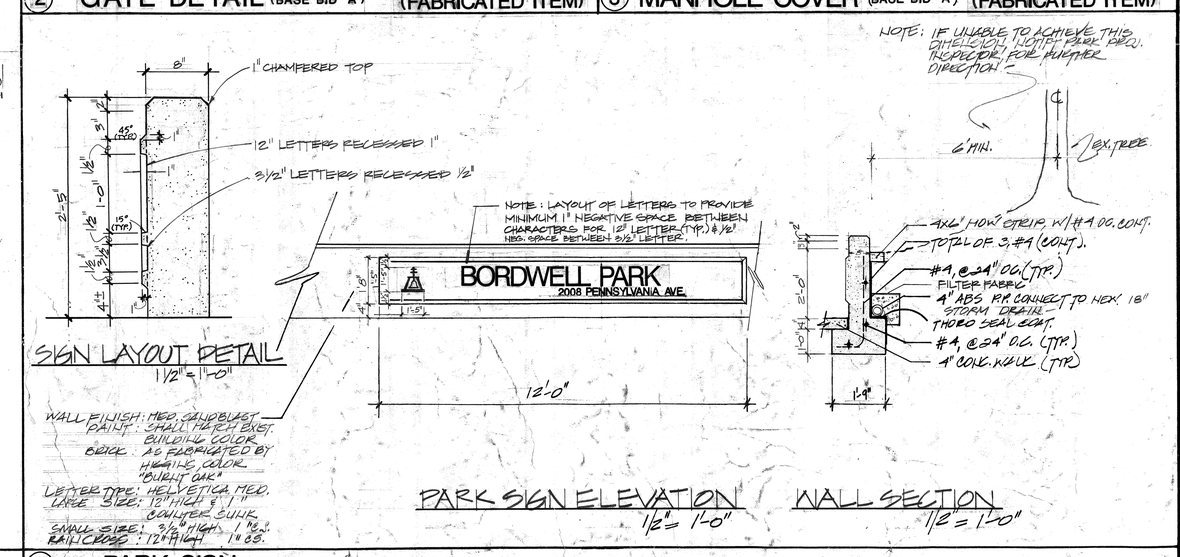


NOTES:
1. REMOVE AND RELOCATE EXIST. GATES AS PER PLAN. FABRICATE NEW GATES AS REQ'D.
2. REMOVE ALL CONCRETE FROM EXIST. GATE POSTS PRIOR TO REINSTALLATION.
3. VERIFY EXTENSION LENGTH FOR EACH SET OF GATES PRIOR TO REINSTALLATION.
4. MOUNT N-4 REFLECTOR TO 3½" I.D. PIPE W/ 2 - 1/4" U-BOLTS. TACK WELD THREADS AFTER MOUNTING.
5. ALL PIPE SHALL BE SCH 40 HOT DIP GALV. STL.
6. TOUCH-UP ALL CUTS, WELDS OR EXPOSED SURFACES W/ GALVICON.
7. GRIND SMOOTH ALL BURRS, CUTS & WELDS.

2 GATE DETAIL (BASE BID 'A') (FABRICATED ITEM)



3 MANHOLE COVER (BASE BID 'A') (FABRICATED ITEM)



WALL FINISH: MED. SANDBLAST PAINT: SMALL TEXT EXIST. BUILDING COLOR.
BRICK: AS FABRICATED BY HEALING, COLOR "BURNT OAK"
LETTER TYPE: HELVETICA MED.
LARGE SIZE: 12" HIGH & 1" COUTER SUNK.
SMALL SIZE: 3½" HIGH, ½" RAIN CROSS: 12" HIGH 1" DS.

4 PARK SIGN (BASE BID 'A')

city of riverside
park & recreation
department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

CONSTRUCTION DETAILS

Date:
Revisions:

no.	date	by

drawn by

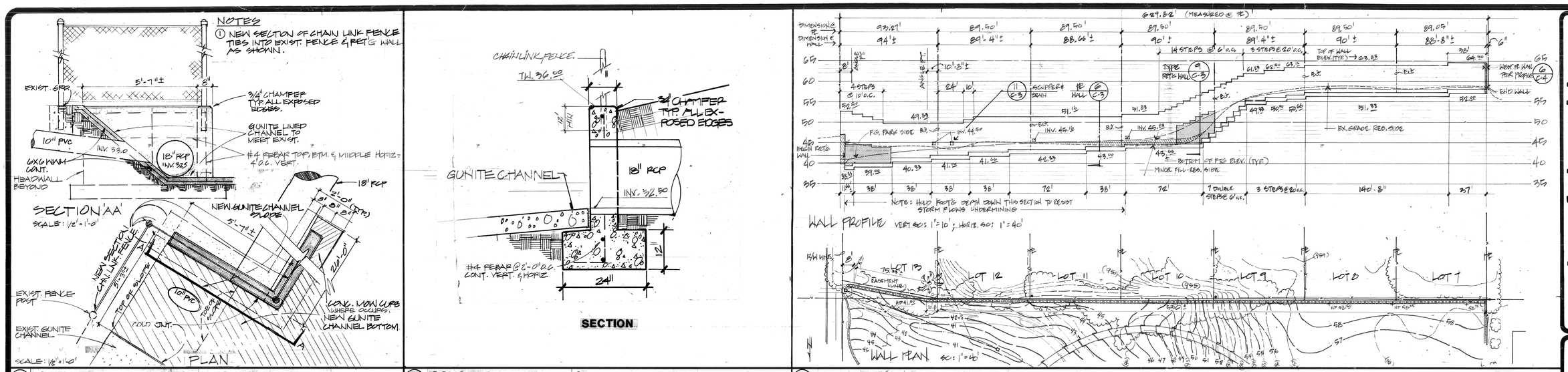
Sheet: 10 of 26.

DWG. No. C-5

PLAN NO. P-0506

DRAWING NUMBER 80-74

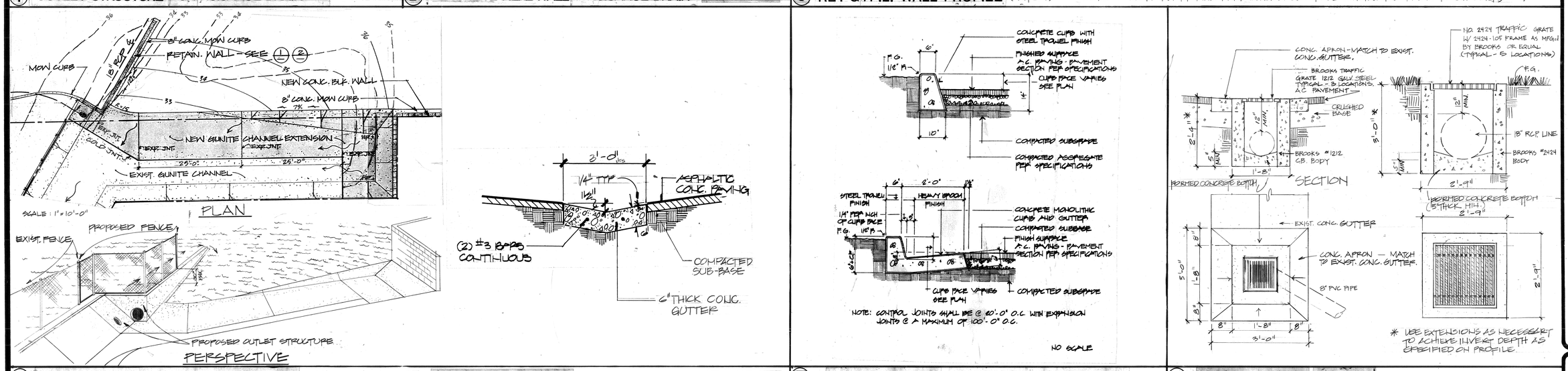
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE



① OUTLET STRUCTURE FOR NUISANCE DRAIN

② CONCRETE HEADWALL & NUISANCE DRAIN SCALE: 1" : 1'-0"

③ RET'G /P.L. WALL PROFILE (TYPE 1) NOTE: (ALL PROPERTY LINE & RETAINING WALLS TO BE CONSTRUCTED PRIOR TO GRADING)

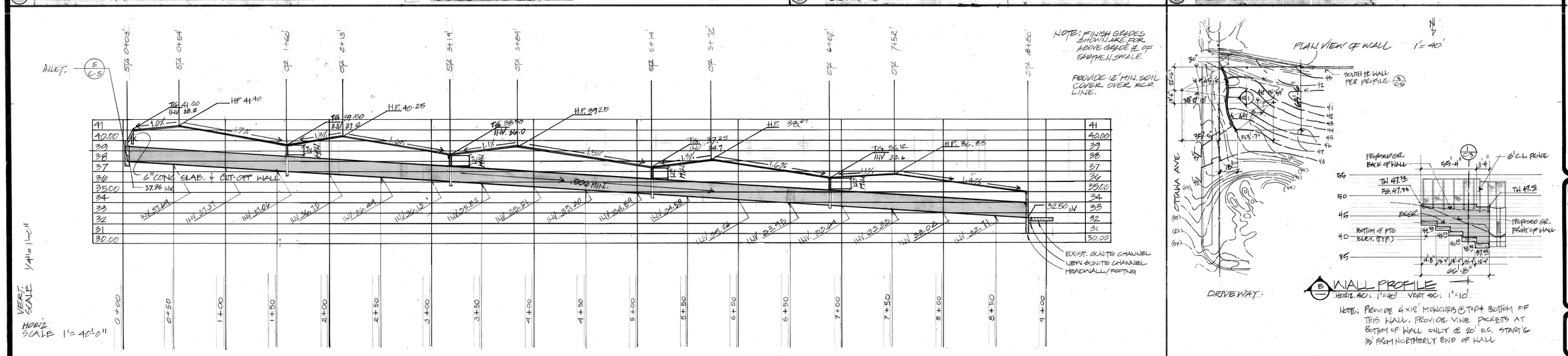


④ NUISANCE DRAIN OUTLET STRUCTURE

⑤ CONCRETE GUTTER SCALE: 1" : 1'-0

⑥ CURB & GUTTER (ON SITE WORK ONLY-NOT ON R.O.W.)

⑦ CATCH BASINS - NO SCALE



⑧ NUISANCE DRAIN AND SWALE PROFILE

⑨ RETAINING WALL LAY OUT & PROFILE (TYPE 2)

CITY OF RIVERSIDE
BORDWELL PARK

CONSTRUCTION DETAILS

Date:
Revisions:

no.	date	by

drawn by

Sheet: 11 of 26

DWG. No. C-6

ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

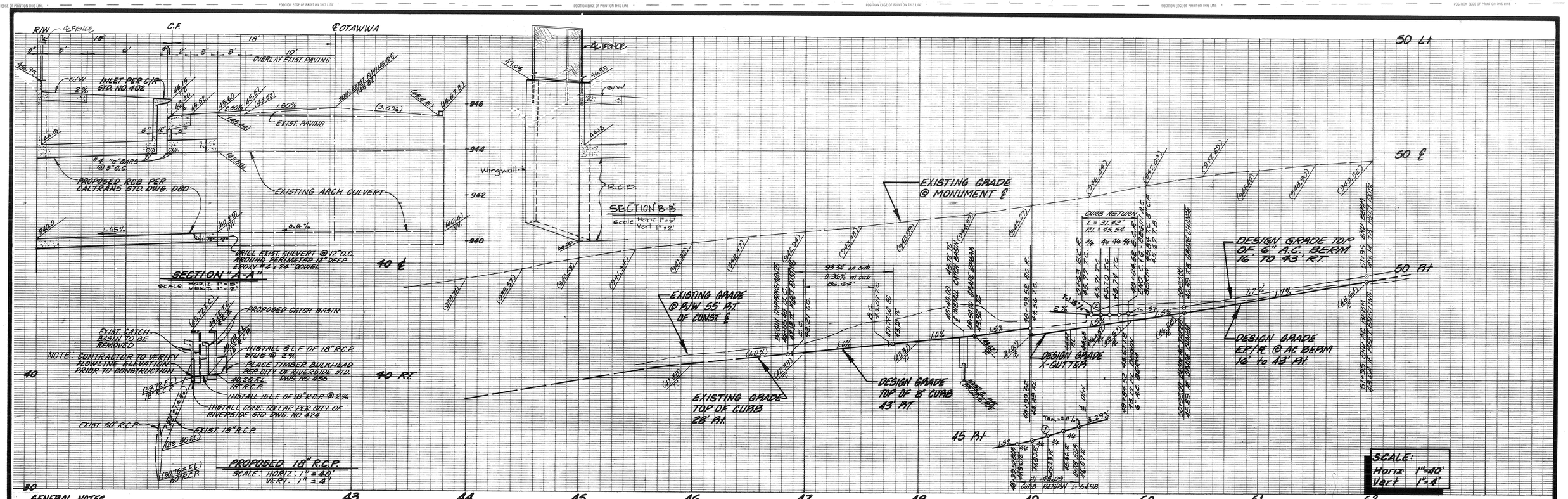
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

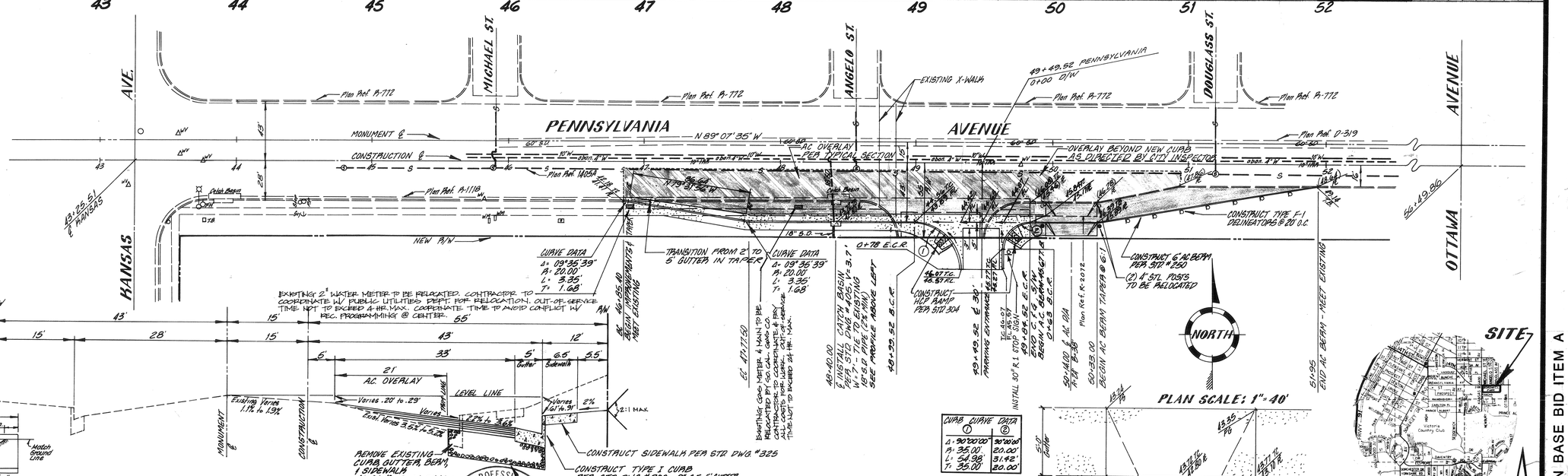
DRAWING NUMBER
BO-73
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

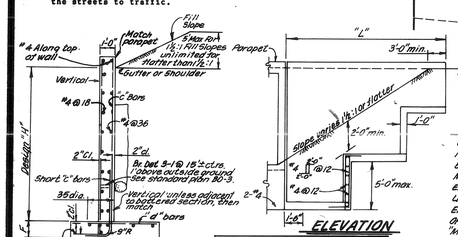


GENERAL NOTES

1. Construction shall be in accordance with the City of Riverside Department of Public Works, Standard Drawings, Standard Drawing No. 10 and the Standard Specifications for Public Works Construction, current edition.
2. It shall be the responsibility of the contractor to clear the right of way in accordance with the provisions of law as it affects each utility, including irrigation lines and appurtenances and at no cost to the city.
3. Trim edge of existing pavement where new pavement joins to a smooth, straight line. Construct match-up paving as shown per plan and overlay paving as directed in the field to produce a smooth section.
4. Curb and gutter shall be staked with 3' offsets at 25' intervals.
5. All flagged elevations shall be staked in the field by the private engineer.
6. The private engineer signing these plans is responsible for assuring the accuracy and acceptability of the work hereon. In the event of discrepancies arising during construction as a result of errors or omissions, the private engineer shall be responsible for determining an acceptable solution and revising the plans for approval by the city.
7. The contractor shall be responsible for preserving or re-establishing and referencing survey monuments destroyed, disturbed or buried as a result of construction shown hereon.
8. In pavement overlay areas, distressed existing pavement shall be removed and replaced as directed by the Inspector prior to overlaying with A.C. paving.
9. The contractor shall call in a location request to Underground Service Alert (USA), Phone No. 1-800-422-4133 two working days before digging. No construction permit will be issued by the Public Works Department involving excavation for underground facilities unless the applicant has been provided an inquiry identification number by U.S.A.
10. Any traffic control striping obliterated and/or badly worn during construction shall be restored by the contractor within five days after notification from the city inspectors.
11. Final striping for traffic control and/or pavement marking to be the responsibility of the developer.
12. All traffic signs shall be installed prior to opening the streets to traffic.



TYPICAL SECTION
HORIZ: 1" = 10' VERT: 1" = 8'



TYPICAL SECTION H = 4 THRU 8'

ELEVATION

REINFORCED CONC. WINGWALLS					
"H"	4'	5'	6'	7'	8'
W	9'-2"	9'-8"	4'-2"	4'-8"	5'-2"
C	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"
B	2'-2"	2'-6"	2'-10"	3'-2"	3'-6"
F	1'-2"				
Batter	NONE				
S	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
"C" Bars	#4@12	#4@12	#4@12	#5@12	#5@12
"d" Bars	#4@24	#4@18	#5@20	#5@14	#5@10
Conc. ½	0.32	0.38	0.44	0.49	0.55
Reinf. ½	13	16	19	25	30

DIMENSIONS DO NOT INCLUDE THAT PORTION ABOVE THE DESIGN "H" LIMIT

DESIGN NOTES:

UNIT STRESSES: $f_s = 24{,}000$ p.s.i., $f_c = 1{,}300$ p.s.i., $n = 10$
MAXIMUM TOE PRESSURE = 1½ TONS/SQ. FT.
ELEVATIONS, LENGTH AND ANGLE OF FLARE OF WINGS MAY BE VARIED BY THE ENGINEER TO SUIT CONDITIONS ENCOUNTERED IN THE FIELD. WALLS DESIGNED FOR 2' LIVELOAD SURCHARGE, 1½:1 SLOPING SURCHARGE NOT TO EXCEED 5' IN ELEVATION PLUS 2' LIVELOAD SURCHARGE, OR UNLIMITED 2:1 SURCHARGE. DIMENSIONS "H", "L", "M", "N", ELEV. "O" AND "ANGLE OF FLARE" (AS APPLY) ARE SHOWN ON THE PLANS.
WALL HEIGHT MAY BE EXCEEDED BY 6" BEFORE GOING TO NEXT GREATER "H". ELIMINATE CUT-OFF WALL IF ADJACENT CHANNEL IS PAVED AND SKEW IS 20° MAXIMUM.

REGISTERED PROFESSIONAL ENGINEER
DALE G. GLADDING
No. 17055
6-30-89
CIVIL
STATE OF CALIFORNIA

BENCHMARK:
PRECISE BM H7-H
P.K. NAIL & TAG IN CENTER OF S.E. CURB RETURN @ HANSAS & PENNSYLVANIA AVENUE.
ELEV. = 937.22

HAWKINS, ROBERTSON & ASSOCIATES
ENGINEERS · SURVEYORS
3764 ELIZABETH ST. RIVERSIDE, CALIFORNIA 92506
PH. (714) 684-9522

Dale G. Gladding 10-24-88
DALE G. GLADDING REG. 17055 DATE EXP. 6-30-89

MARK	REVISIONS	APPR.	DATE

DESIGNED BY A.C. DRAWN BY J.S. CHECKED BY A.C.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	6-27-89	
PARK DEPARTMENT	5-11-89	
TRAFFIC DIVISION	6-26-89	
CHIEF P. W. ENGINEER	6-27-89	
	6-27-89	

APPROVED BY Barry Foster
PUBLIC WORKS DIRECTOR
DATE 6/29/89

STREET IMPROVEMENT PLAN
PENNSYLVANIA AVE.
AT BORDWELL PARK
BETWEEN HANSAS & OTTAWA
0-4-878

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

12 of 26
DWG. NO. C-7
ACCOUNT NO. R-3045
SHEET 1 OF 3

ALL WORK THIS SHEET IN BASE BID ITEM A

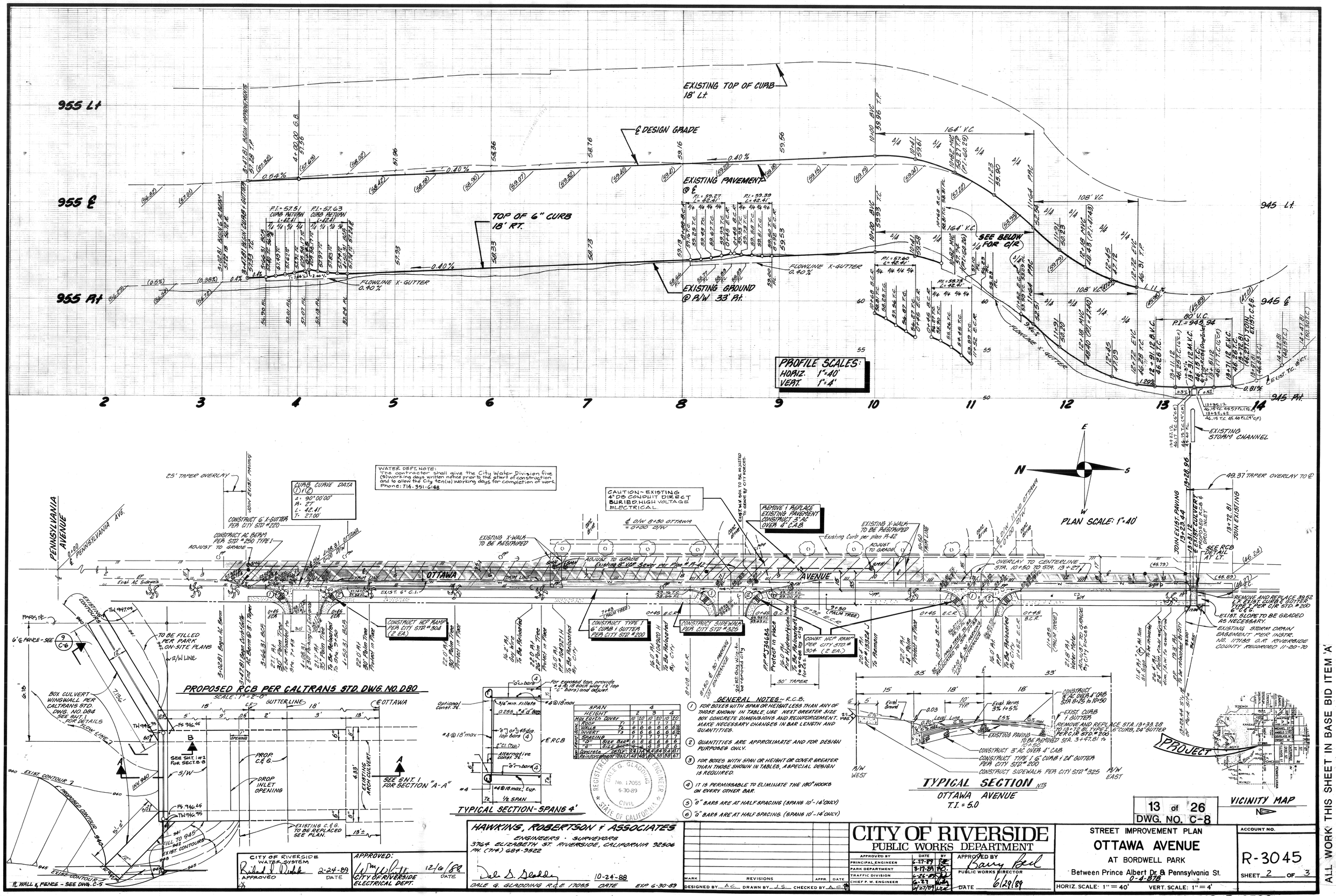
City of Riv. Account No. 005193 Exp. 12-31-89

ALL WORK THIS SHEET IN BASE BID ITEM A.

PLAN NO. P-0506 3966

DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER 80-72 | DRAWING NUMBER 80R

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE



SPAN	2		3		4	
HEIGHT	2	3	3	4	4	5
MIN. COVER	10	10	10	10	10	10
ROOF T1	7	7	7	7	7	7
WALLS T2	6	6	6	6	6	7½
INVERT T3	6	6	6	6	6½	7½
SPACING	7	7	7	7	7	7
REINF. BARS "a" SIZE BAR	6	6	6	6	6	7
REINF. BARS "b" SIZE BAR	4	4	5	5	5	6
CONCRETE CUBIC YDS	2.9	3.4	4.4	4.9	5.8	7.1
REINFORCEMENT LBS	154	167	198	215	258	318

REGISTERED PROFESSIONAL ENGINEER DALE G. GLADDING No. 17055 6-30-89 CIVIL STATE OF CALIFORNIA

CITY OF RIVERSIDE WATER SYSTEM — APPROVED — DATE 2-24-89

APPROVED: CITY OF RIVERSIDE ELECTRICAL DEPT. — DATE 12/6/88

HAWKINS, ROBERTSON & ASSOCIATES
ENGINEERS · SURVEYORS
3764 ELIZABETH ST. RIVERSIDE, CALIFORNIA 92506
PH. (714) 684-3522
Dale G. Gladding — 10-24-88
DALE G. GLADDING R.C.E. 17055 DATE EXP. 6-30-89

MARK	REVISIONS	APPR.	DATE

DESIGNED BY A.C. DRAWN BY J.S. CHECKED BY A.C.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	6-27-89	
PARK DEPARTMENT	3-17-89	
TRAFFIC DIVISION	6-26-89	
CHIEF P.W. ENGINEER	6-27	
	6/27/89	

APPROVED BY Barry Bell — PUBLIC WORKS DIRECTOR — DATE 6/29/89

STREET IMPROVEMENT PLAN
OTTAWA AVENUE
AT BORDWELL PARK
Between Prince Albert Dr. & Pennsylvania St.
0-4-878

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCOUNT NO. R-3045
SHEET 2 OF 3

13 of 26
DWG. NO. C-8

PLAN NO. P-0506 3966

City of Riv. Account No. 005193 Exp. 12-31-89

DRAWING NUMBER

DRAWING NUMBER

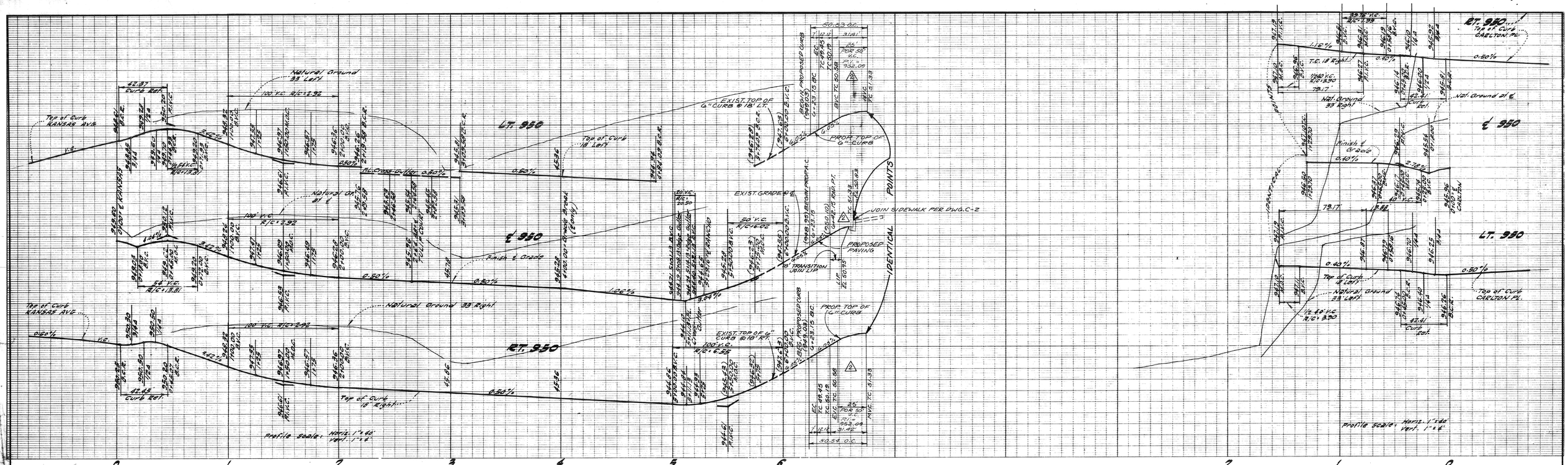
DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER 80-74

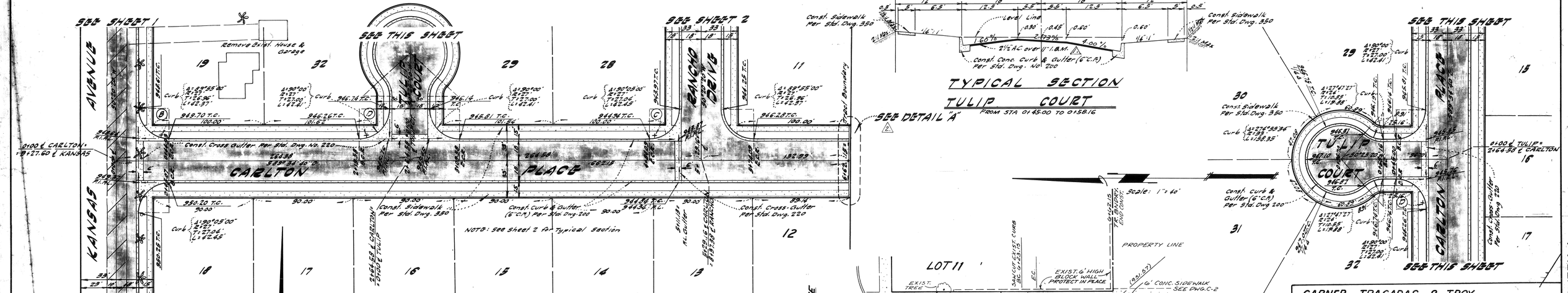
DRAWING NUMBER BOR

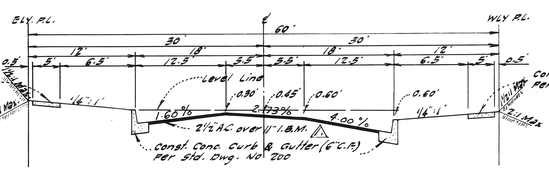
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE



PLAN & PROFILE

TULIP COURT

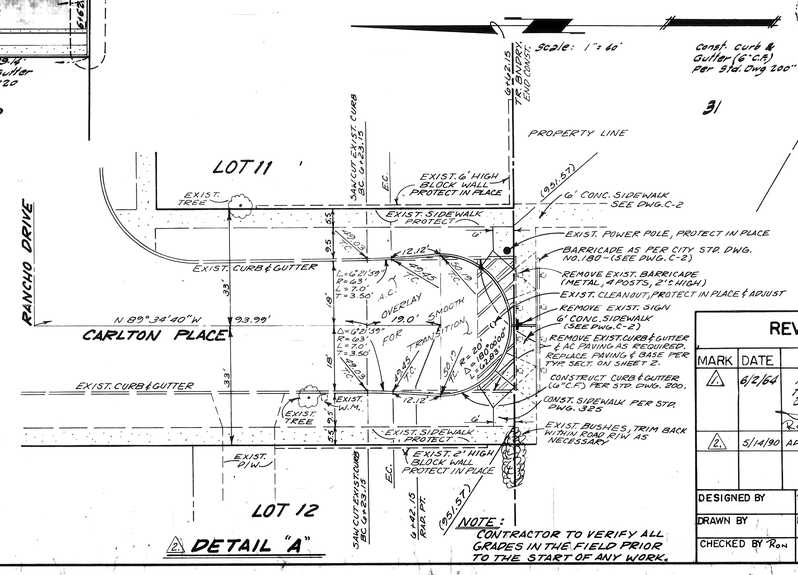




TYPICAL SECTION

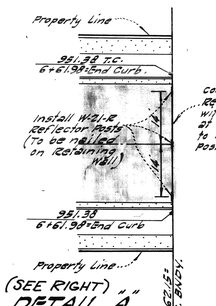
TULIP COURT

FROM STA 01+45.00 TO 01+58.16



DETAIL "A"

NOTE: CONTRACTOR TO VERIFY ALL GRADES IN THE FIELD PRIOR TO THE START OF ANY WORK.



PLAN & PROFILE

CARLTON PLACE

SEE SHEET 2 FOR TYPICAL SECTION

(SEE RIGHT) "A" DETAIL "A"

Scale: 1" = 20'

BENCH MARK:

LEAD & NAIL IN CURB AT N.W. CORNER KANSAS AVE. & PRINCE ALBERT DRIVE. ELEV. = 953.30

GARNER TRACADAS & TROY
360 NORTH ARROWHEAD AVE.
SAN BERNARDINO CALIFORNIA

Frank Tracadas 10/16/63
FRANK TRACADAS RE NO 11447

REVISIONS		
MARK	DATE	DESCRIPTION
1	6/2/64	11' I.B.M added to typical section - Tulip Court. Frank Tracadas
2	5/14/90	ADDED TURNAROUND WLL 5/25/90

CITY OF RIVERSIDE CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

TRACT NO 2716
CARLTON PLACE

14 of 26 DWG. C-9

DESIGNED BY	SUBMITTED BY William B. Hardman	APPROVED BY	PROJ. NO.
DRAWN BY	PARK DEPT. / TRAFFIC DIV	DIRECTOR OF PUBLIC WORKS	R-758
CHECKED BY R.O.N.	RECOMMENDED BY ASSISTANT CITY ENGINEER	DATE 2-18-64	SHEET 3 OF 3

PLAN NO. P-0506

ALL WORK THIS SHEET IN BASE BID ITEM A

DRAWING NUMBER

BO-58

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

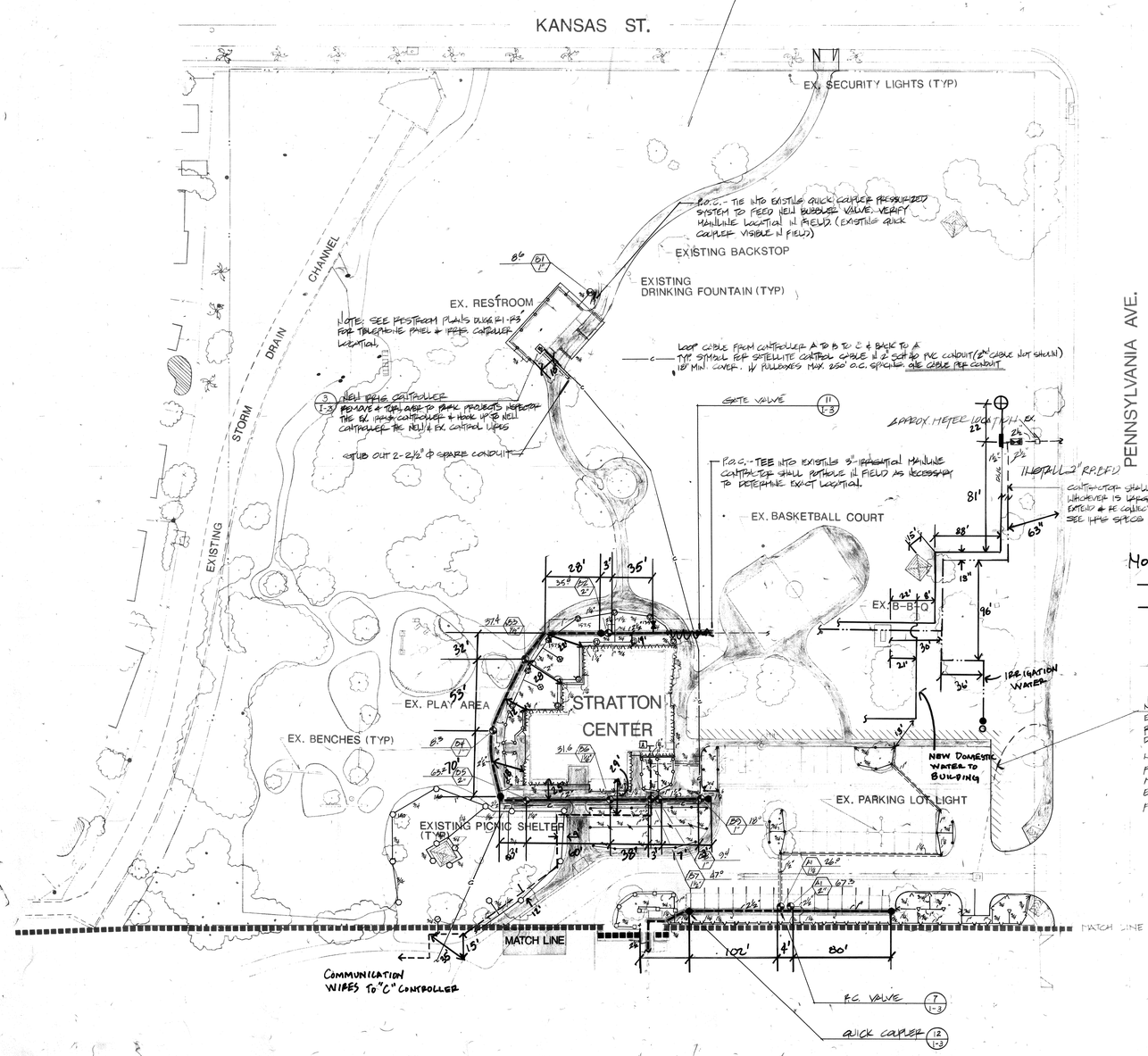
POSITION EDGE OF PRINT ON THIS LINE

LEGEND

MATCH LINE

IRRIGATION MAINLINE

IRRIGATION LEGEND												
Symbol	Model	Detail	PSI	Radius	Pattern 360°	270°	180°	120°	90°	45°	Remarks
○ ◐ ◑ ◒	TORO 640 SERIES PLUS #3, PLUS #5, PLUS 60	2	50	65'	12.7		12.7		6.7		SEE SPECS.
⊕ ○ ○ ○	NOZZLE USE ON P.H.2 VAR. ARC.	2	40	39'	7.8		5.7		3		" "
○ ○	" " USE ON H.2	2	40	30'	4.2		2.8		1.5		" "
⊕ ⊕ ⊕	3000-00-02 P.H.2	2	45	21'	2.7		1.8		1		" "
⊕ ⊕ ⊕	" -03 P.H.2	2	45	26'	4.4		2.7		1.4		" "
⊕ ⊕	2700-15 MPR SER. P.H.2	2	30	15'	2.1		1.1		.6		POP-UP
⊕ ⊕	2700-18 MPR SER. P.H.2	2	30	18'	2.1		1.1		.6		" "
⊕ ⊕	2700-21 MPR SER. P.H.2	2	30	21'	2.1		1.1		.6		" "
⊕ ⊕	2700-12 STP SER. P.H.2	2	30	12'	1.4		.8		.5		" "
	TORO 570-Z PA-100-15 (MEDIUM VOLS)	2	30		8.5		5				FIXED NOZZLES, POP-UP
	TORO 890 YD 8" SERIES BUFF (1 GA) & TORO 880 T 1" SERIES BUFF (1 GA) & TORO 880 T 2" SERIES BUFF (1 GA)										10 LOCATION TO BE APPROVED BY PARK FIELD INSPECTOR.
	TORO LETHION SERIES SATELLITE IRRIG. CONTROLLER										3 SEE SPECIFICATIONS
	HUNTER ECO-CIP PRIVATE CONTROL VALVE										7 SIZE NOTED ON PLANS
	HOLCO T-119 GATE VALVE										11 LINE SIZE
	TORO 250 AV L.F.C. 1" QUICK COUPLER										12
	IRRIG. MAINLINE PVC SCH 40 <2", PVC CLASS 200 >2", PVC CLASS 315										SEE SPECIFICATIONS - 18" MIN. COVER
	IRRIG. LATERALS PVC CL 200 - SIZE NOTED ON PLANS										" " - 12" MIN. COVER
	SCHEDULE 40 PVC SCH 40										18" MIN. COVER
	PVC PIPE & FITTINGS - SCH. 40 PVC CLASS 200 SEE PLAN DIAGRAMS										18" MIN. COVER & SEE PLAN DIAGRAMS & SPECS.
	TELEPHONE - 2-#14 TWISTED PR. WIRE SCHED.										
	HIGH VOLTAGE - 2-#14 TWISTED PR. WIRE SCHED.										
	U.S. FIBER OPTICAL CONTROL LINE, SCHED. SUPPLY, 12 GA. CONTROL, 4 GA. POWER										PLANTS W/ PERIMETER



NOTE:

——— IRRIGATION LINE

—·· —·· DOMESTIC WATER

48 HOURS BEFORE YOU DIG CALL Underground Service Alert 1-800-422-4133

north

SCALE : 1" = 40' - 0"

city of riverside
park & recreation
department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE

BORDWELL PARK

AREA A

IRRIGATION PLAN

Date

Revisions

Sheet 15 of 26

DWG. No. I-1

ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER BO-57 | DRAWING NUMBER Bordwell

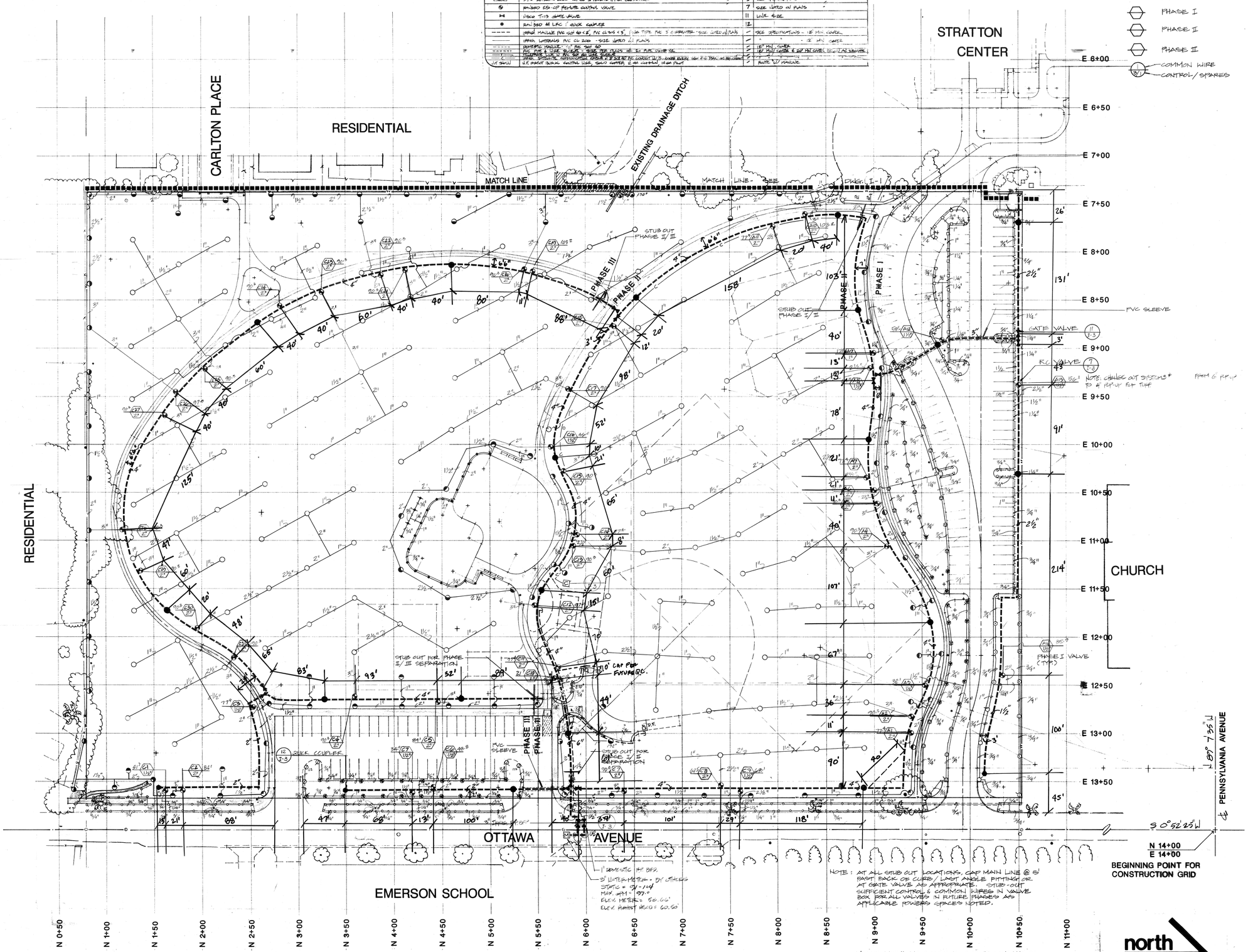
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

IRRIGATION LEGEND

Symbol	Model	Detail	PSI	Radius	Pattern 360°	270°	180°	120°	90°	90°	Remarks
		2	50	55'	15°		12°		6°		OPEN NOZZLE
	NOZZLE 1/2 IPS P.H.Q. VAR. ARC	2	40	39'	18°		9°		1.5		" "
	" 1/2 IPS H.Q	2	40	30'	12°		12°		1'		" "
	5004-00-02 P.H.Q	2	55	21	27		18		.7		" "
	" -03 P.H.Q	2	55	50'	54°		27		1.6		POP-UP
	5006-15 1/2 GPM P.H.Q	2	50	12	30°		21		.4		" "
	5006-30 1/2 GPM P.H.Q	2	50	15	21		15		.5		" "
	5006-30 1/2 GPM P.H.Q	2	50	15	8		6		1		" "
	5004-00-02 P.H.Q (CURRENT USER)	2	50		18						POPPET SUBMERGED POP-UP
	FENCE BASE TO 5' AFGL OFF (1 EA) & FENCE BASE (1 SYMETRIC OF 1 (1 EA) & FENCE BASE (2' AFGL DEPT (1 EA)									10	LOCATION TO BE APPROVED BY PARK FIELD INSPECTOR
	SPRAY SETTLING BASIN SERIES SPECIALTY IRRIG. CONTROLLER									3	SEE SPECIFICATIONS
	RAINBIRD EFB-CP REMOTE CONTROL VALVE									7	SIZE NOTED ON PLANS
	HOSE TYPE GATE VALVE									11	LINE SIZE
	RAINBIRD 44 LRC QUICK COUPLER									12	
	IRRIG. MAINLINE PVC SCH 40 < 3", PVC CLASS < 3"										SEE SPECIFICATIONS - 18" MIN COVER
	IRRIG. LATERALS PVC CL 200 - SIZE NOTED ON PLANS										" " - 12" MIN COVER
	DOMESTIC MAINLINE - 1" PVC TYPE 40										18" MIN COVER
	PVC PIPE SLEEVE - SIZE PER PLANS UNDER 3" PVC PIPE UNDER SIDE										18" MIN COVER & 24" MIN COVER, EXCEPT AT SIDEWALK
	1" PVC SCH 40 WITH 2 PVC SCH 40 WITH 2 PVC SCH 40										" "
	SEE SPECIFIC CONTROLLER CABLE 14 # 2 AWG PVC CONDUIT (1) 3/4 - UNDER BUILD. WITH 2 EA TRAFFIC RESISTANT										" "
	U.F. DIRECT BURIAL CONTROL WIRE, SOLID COPPER, 12 AWG CONTROL, 14 AWG PILOT										ROUTE 1/2" MANIFOLD

LEGEND

- MATCH LINE
- IRRIGATION MAINLINE
- PHASE I
- PHASE II
- PHASE III
- COMMON WIRE
- CONTROL/SPARES



SCALE : 1" :: 40' - 0" PLAN NO. P-0506

city of riverside park & recreation department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

AREA B
IRRIGATION PLAN

Date:
Revisions:

no.	date	by

drawn by:

Sheet: 16 of 26

DWG. No. I-2

ALL WORK THIS SHEET INCLUDES MULTIPLE BID SCHEDULES

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B0-68
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

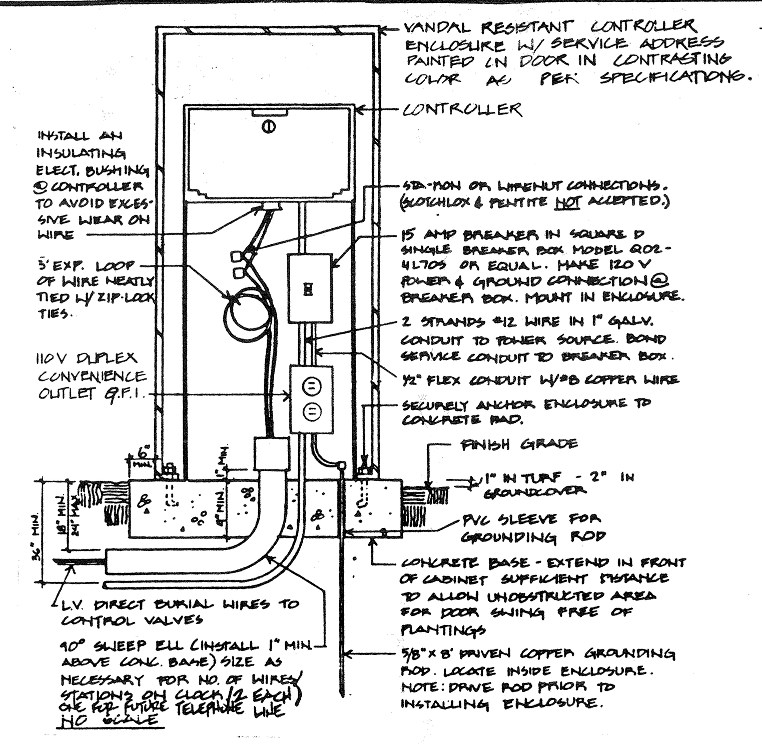
DRAWING NUMBER
BOR
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

(4)

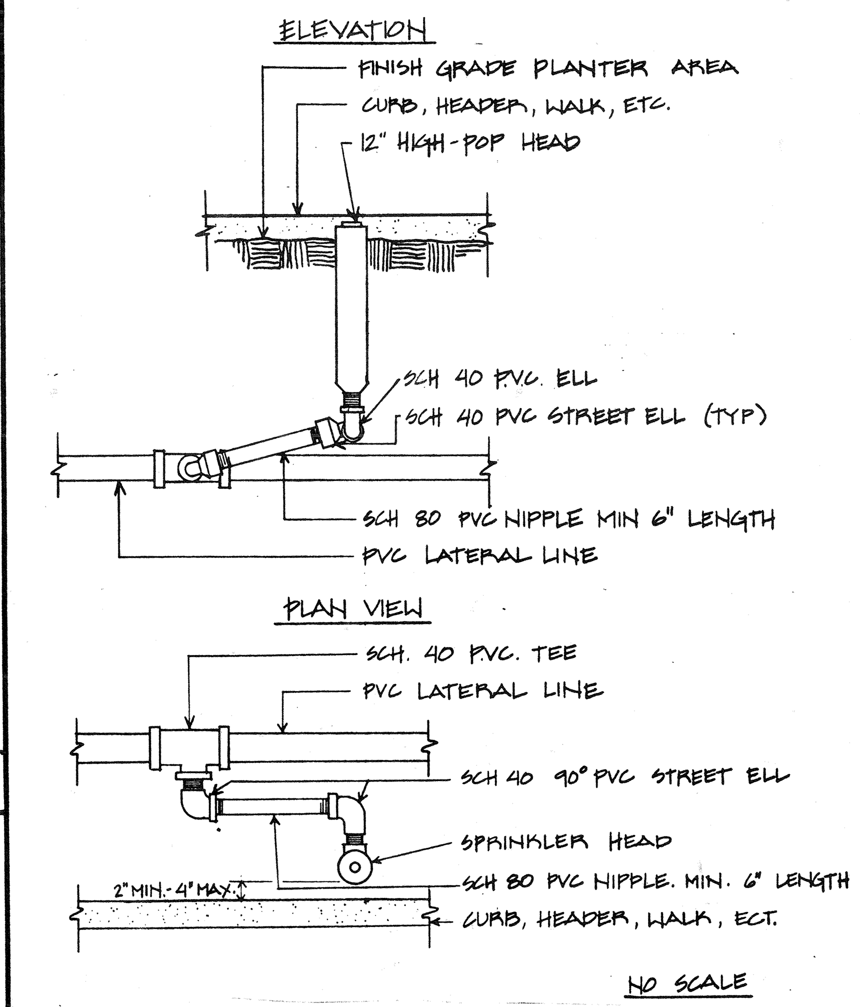
(5)

(6)

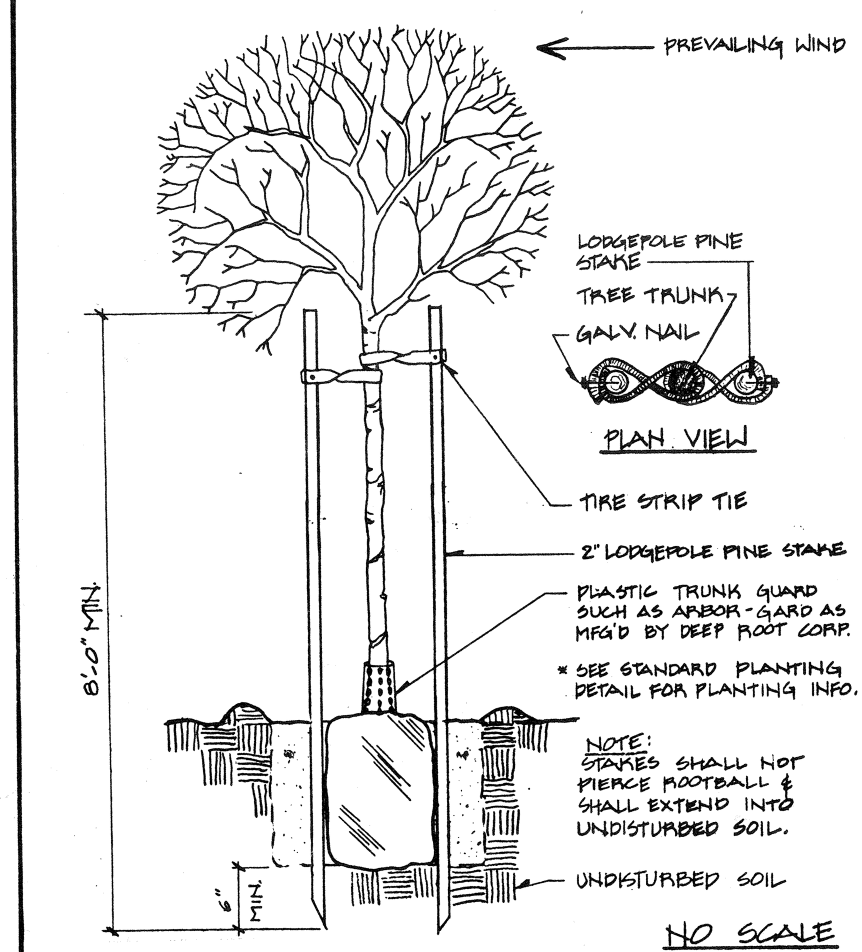
(13)



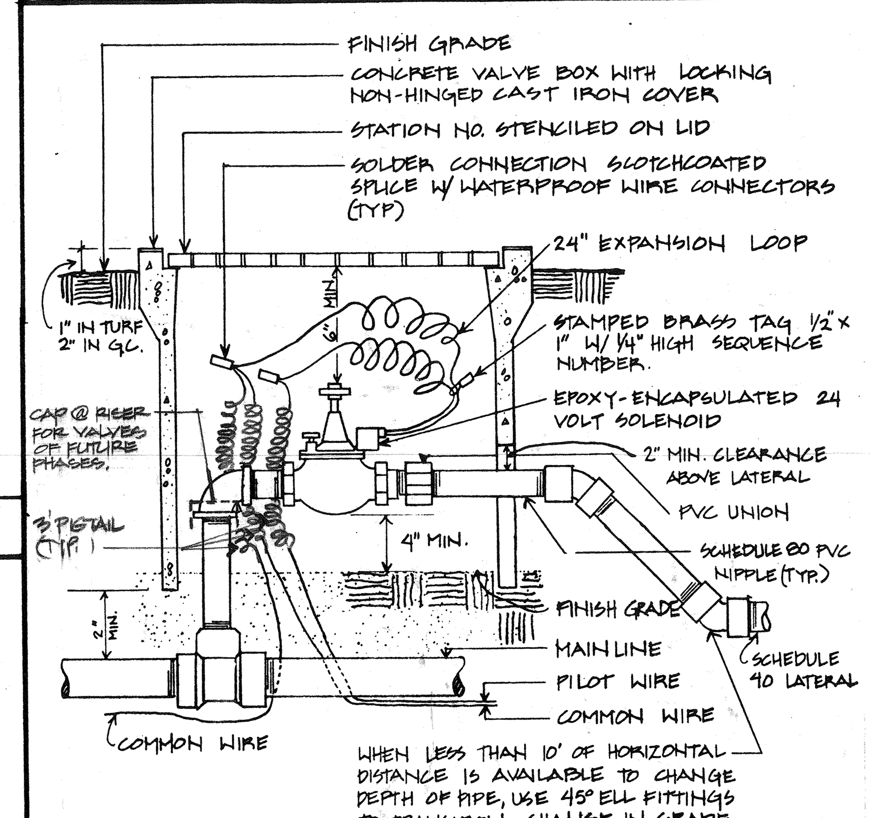
(3) CONTROLLER



(2) POP-UP TURF HEAD



(1) STAKING DETAIL



NOTES: 1) EACH VALVE SHALL HAVE ITS OWN TEE OR ELL CONNECTION TO THE MAINLINE. NO MANIFOLD CONNECTIONS.
2) PROVIDE MINIMUM 3' CLEAR DISTANCE BETWEEN VALVES.
3) INSTALL VALVE BOX IN A MANNER THAT BOX DOES NOT REST ON ANY IRRIGATION LINE.

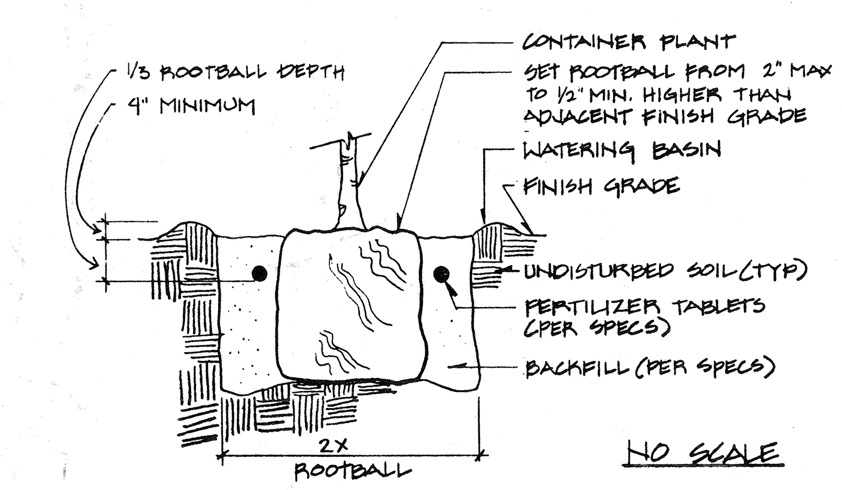
NO SCALE

(7) RC VALVE

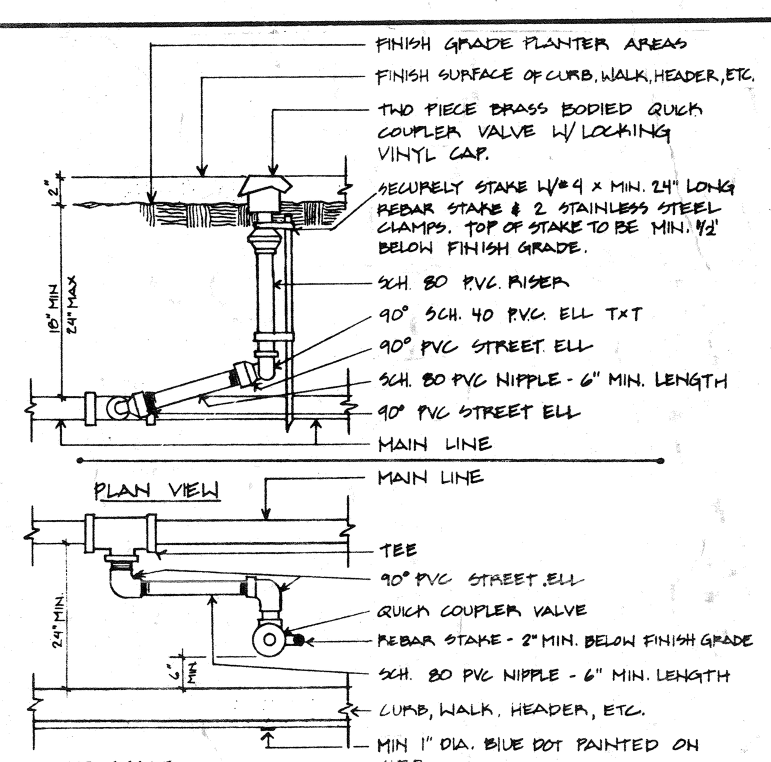
GENERAL PLANTING NOTES

1) Contact the Park Project Inspector at 787-7223 48 hours prior to installing any plant material.
2) Trees planted in turf areas shall be maintained with a minimum 12" radius around tree free from turf throughout the maintenance period.
3) Watering basins may be removed after the maintenance period.
4) For staking information as applicable, refer to standard staking detail.
5) For guying information as applicable, refer to standard guying detail.
6) For specification information, refer to City of Riverside Park and Recreation Department Standard Specifications sections 02480/02401.
7) Provide Fertilizer Tablets as follows:

1 gallon plant	2 tablets
5 gallon plant	3 tablets
15 gallon plant	5 tablets
24" box plant	8 tablets



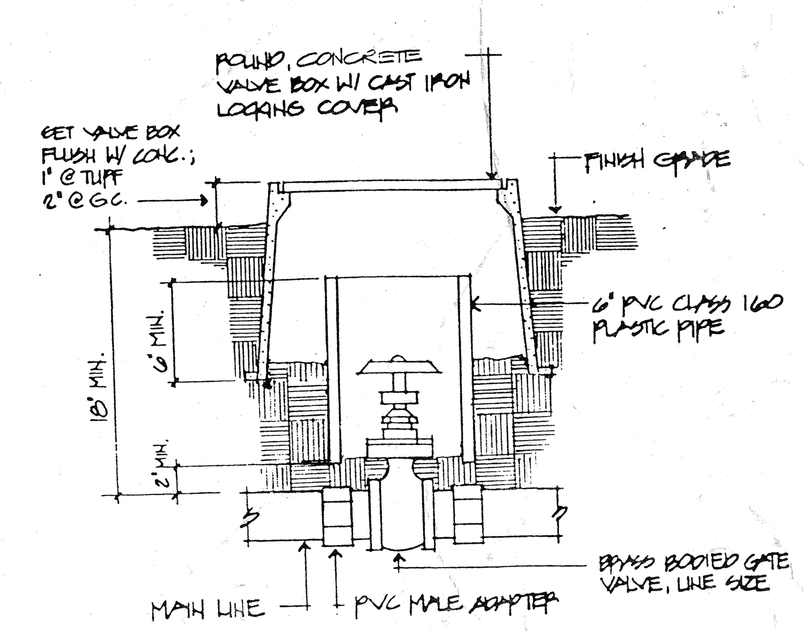
(8) PLANTING DETAIL



(12) QUICK COUPLER

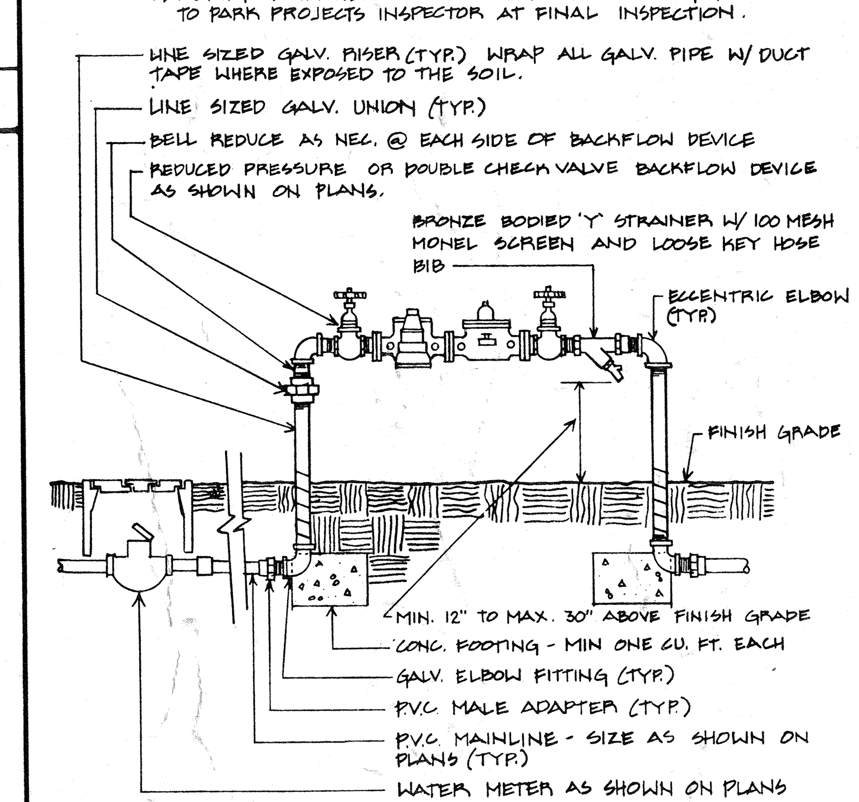
IRRIGATION LEGEND

Symbol	Model	Detail	PSI	Radius	Pattern 360°	270°	180°	120°	90°	ARC	Remarks
○ ◒ ◑ ●	TORO 640 ROTOR F-Noz 42, H-Noz 42, Q-Noz 40	2	50	55'	12.9		12.9		6.7		GEAR ROTOR
⊗ ○ ○ ○ARC	XP300P Noz 09 F,H,Q, VAR. ARC.	2	40	39'	7.4		3.7		1.9		" "
⊙ ○	" " Noz 05 H,Q	2	40	29'	4.2		2.2		1.1		" "
	300-00-02 F,H,Q	2	35	21'	2.9		1.4		.7		" "
	" " -03 F,H,Q	2	35	28'	5.4		2.7		1.4		" "
	570C-4P LOW GAL F,H,Q	2	30	12'	2.1		1.1		.8		POP-UP
▽ V V	570C-6P LOW GAL F,H,Q	2	30	12'	2.1		1.1		.8		" "
□ ◻	570C-6P STD GAL H,Q	2	30	15'	4		2		1		" "
	570C-4P STD GAL F,H,Q	2	30	15'	4		2		1		" "
•	TORO 570C-3P FB-100-PC (RESTROOM VINES)	2	40		.95						FLOOD BUBBLER POP-UP
⧓	FEBCO 825YD 3" IRRIG. BFP (1 EA) & FEBCO 825Y 1" DOMESTIC BFP (1 EA) & FEBCO 826Y 2" IRRIG. BFP (1 ea)	10									LOCATION TO BE APPROVED BY PARK PROJ.S INSPECTOR
A B C	TORO NETWORK 8000 SERIES SATELLITE IRRIG. CONTROLLER	3									SEE SPECIFICATIONS
⊕	RAINBIRD EFA-CP REMOTE CONTROL VALVE	7									SIZE NOTED ON PLANS
⋈	NIBCO T-113 GATE VALVE	11									LINE SIZE
●	RAIN BIRD 44 LRC 1" QUICK COUPLER	12									
----	IRRIG. MAINLINE PVC SCH 40 < 2", PVC CL 315 < 3", RING TYPE PVC 3" & GREATER - SIZE NOTED ON PLANS	—									SEE SPECIFICATIONS - 18" MIN. COVER
——	IRRIG. LATERALS PVC CL 200 - SIZE NOTED ON PLANS	—									" " - 12" MIN. COVER
------	DOMESTIC MAINLINE - 1¼" PVC SCH 40	—									18" MIN COVER
======	PVC PIPE & WIRE SLEEVE - SIZE PER PLANS OR 2x PIPE DIAMETER	—									18" MIN COVER & 24" MIN COVER BELOW AC SUBGRADE
—T—	TELEPHONE LINE IN PVC SCH 40 WIRE SLEEVE	—									" " " " " "
—C—	IRRIG. SATELLITE COMMUNICATION CABLE IN 2" SCH 40 PVC CONDUIT W/ PULLBOXES EVERY 250 O.C. MAX. - ONE PER CONDUIT	—									" " " " " "
NOT SHOWN	U.F. DIRECT BURIAL CONTROL WIRE, SOLID COPPER, 12 GA COMMON, 14 GA PILOT	—									ROUTE W/ MAINLINE

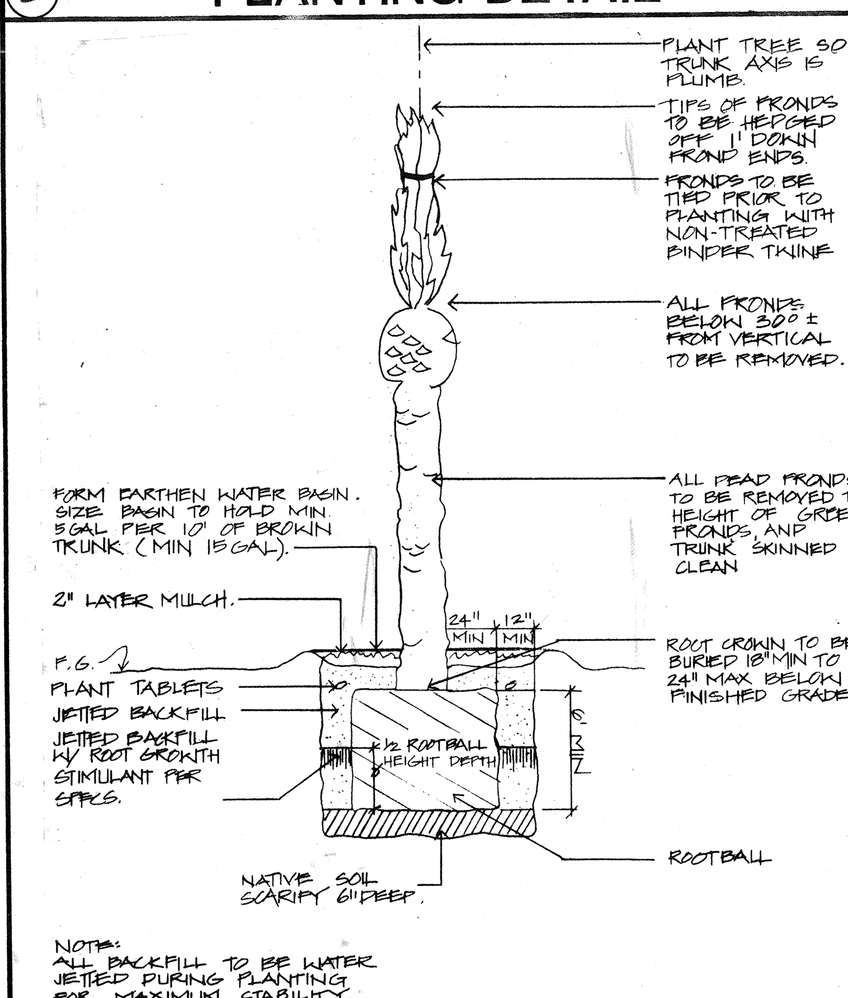


(11) GATE VALVE

NOTES: 1) INSTALL BACKFLOW DEVICE SQUARE WITH HARDSCAPE ELEMENT AS APPROVED BY THE PARK PROJECTS INSPECTOR IN THE FIELD.
2) MODIFY HANDWHEELS AS DIRECTED OR REMOVE & TURN OVER TO PARK PROJECTS INSPECTOR AT FINAL INSPECTION.



(10) BACKFLOW DEVICE



(9) PALM TREE RELOCATION

city of riverside
park & recreation department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

CITY OF RIVERSIDE
BORDWELL PARK

IRRIGATION AND PLANTING DETAILS

Date:
Revisions:

no	date	by

drawn by

Sheet: 17 of 26

DWG. NO. I-3

PLAN NO. P-0506

ALL WORK THIS SHEET INCLUDES MULTIPLE BID SCHEDULES

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

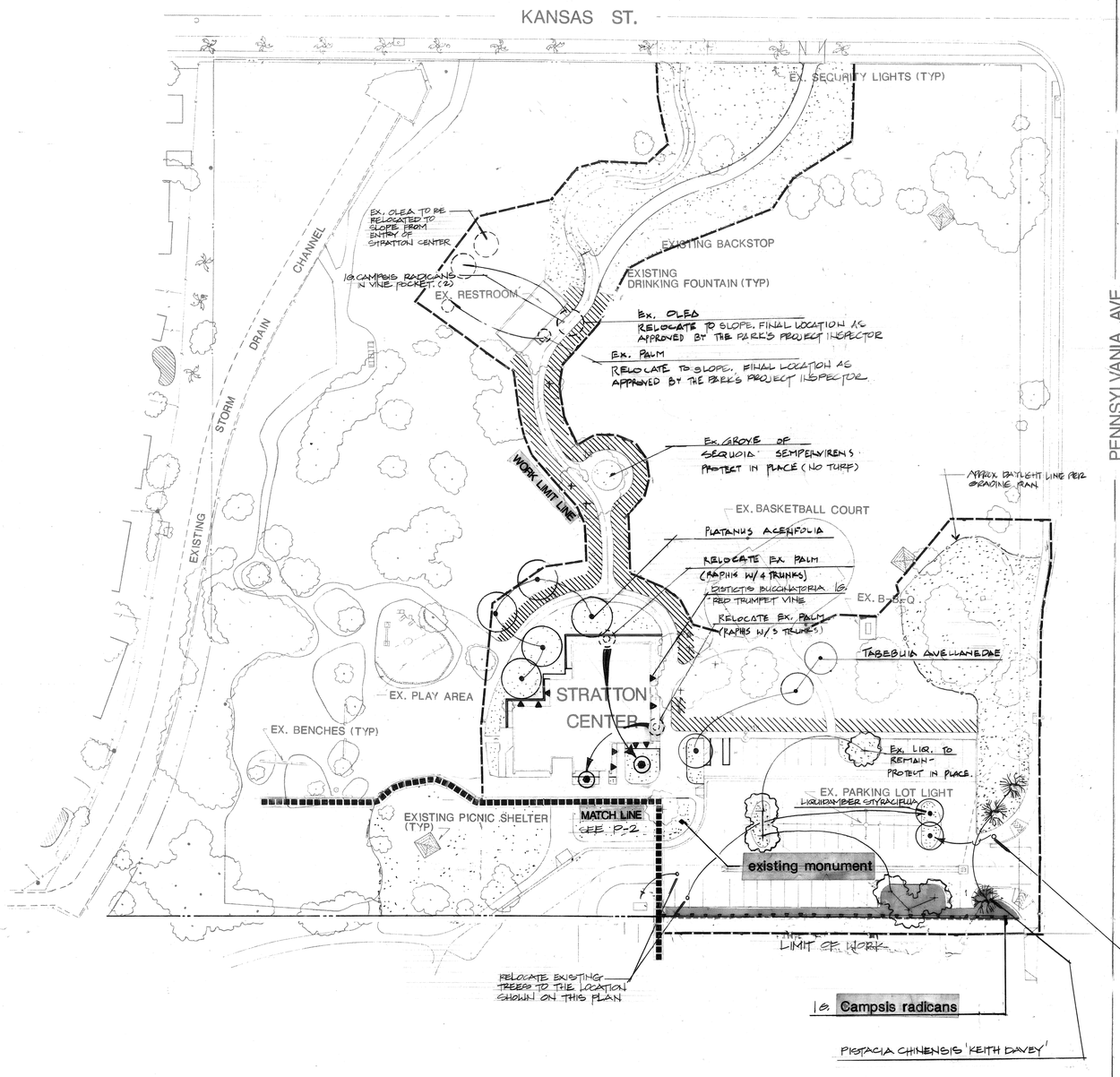
DRAWING NUMBER

BO-67

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

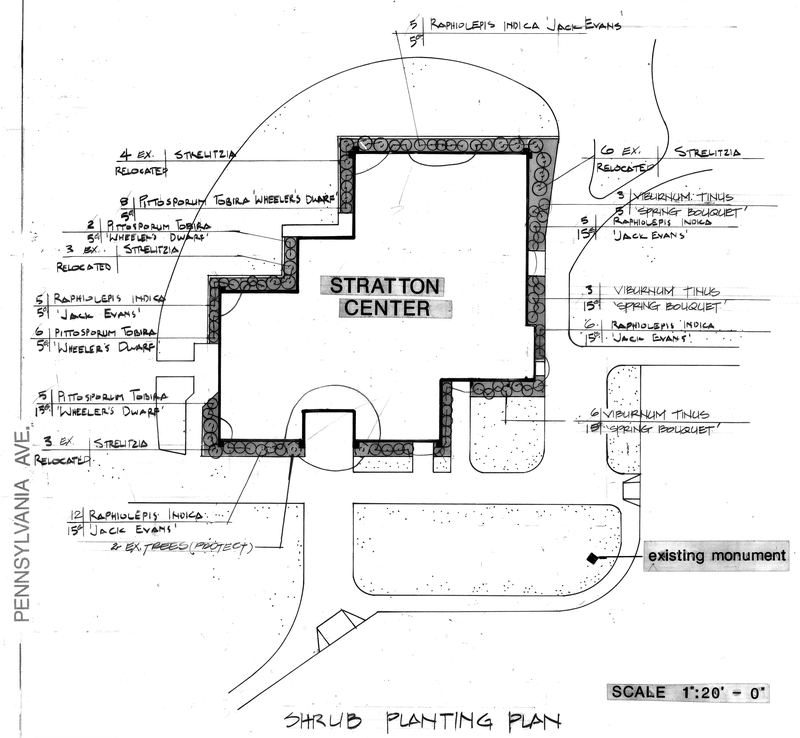
POSITION EDGE OF PRINT ON THIS LINE



TREE, VINE & GROUNDCOVER PLANTING PLAN

NOTE: ALL TREES TO BE MIN. 15 GAL

SCALE 1" = 40'-0"



SCALE 1":20' - 0"

SHRUB PLANTING PLAN

NOTE: EX. STRELITZIA CURRENTLY ESTABLISHED IN PLANTERS ADJACENT TO STRATON CENTER ARE TO BE DIVIDED, THINNED TO EQUIVALENT OF 5 GAL SHRUB AND REPLANTED AT THE LOCATIONS SHOWN.

LEGEND:

MANDATORY HYDRO SEED — HYDROSEED TURF:
PERENNIAL RYE (50% 'PENN FINE', 50% 'DERBY')
P.J. BLUEGRASS (50% 'RUGBY', 50% 'PARADE')
UN-NULLED BERMUDA (CERTIFIED ARIZONA COMMON)
RATE = (5 POUNDS PER 1,000 SQUARE FEET)

OPTIONAL HANDSEED < 3' — INDICATES APPROX. WIDTH TO BE HYDROSEEDED (PER MIXTURE ABOVE) AS A RESULT OF PROBABLE DAMAGE TO EXISTING TURF DURING CONSTRUCTION. CONTRACTOR SHALL FINE GRADE, SOIL PREP, AND HYDROSEED ALL DAMAGED TURF AREAS, WHERE DAMAGED AREAS ARE LESS THAN 3' IN WIDTH, HAND SEEDING MAY BE USED IN LIEU OF HYDROSEED @ CONTRACTOR'S OPTION.

G.C. — HEDERA HELIX 'HAHN'S' FROM FLATS PLANTED @ 6" O.C. △ SPACED.

RELOCATE EX. LIQ. STY.

48 HOURS BEFORE YOU DIG CALL Underground Service Alert 1-800-422-4133

north

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CITY OF RIVERSIDE
BORDWELL PARK

AREA A
PLANTING PLAN

Date
Revisions

Sheet 18 of 26

DWG. No. P-1

ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER 80-66

DRAWING NUMBER 80R

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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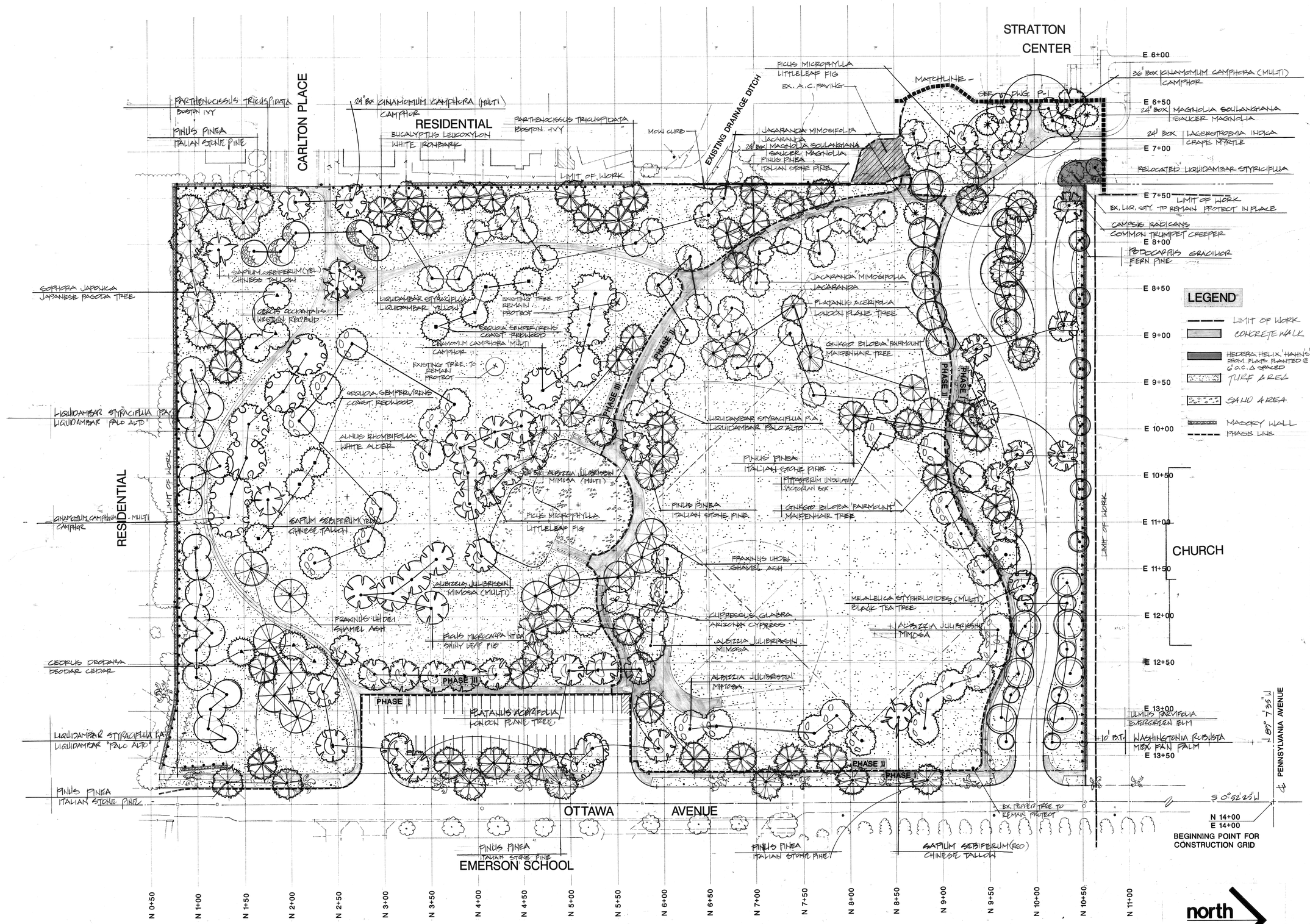

NOTE:
ALL TREES SHALL BE SIZES NOTED - WHERE NOT NOTED USE 15 GAL. MIN.
ALL VINES SHALL BE 1 GAL. (MIN.)

SCALE : 1" :: 40' - 0"

PLAN NO. P-0506

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CITY OF RIVERSIDE
BORDWELL PARK

AREA B
PLANTING PLAN

Date:
Revisions:

no.	date	by

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Sheet: 19 of 26

DWG No. P-2

ALL WORK THIS SHEET INCLUDES MULTIPLE BID SCHEDULES

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

BO-65

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

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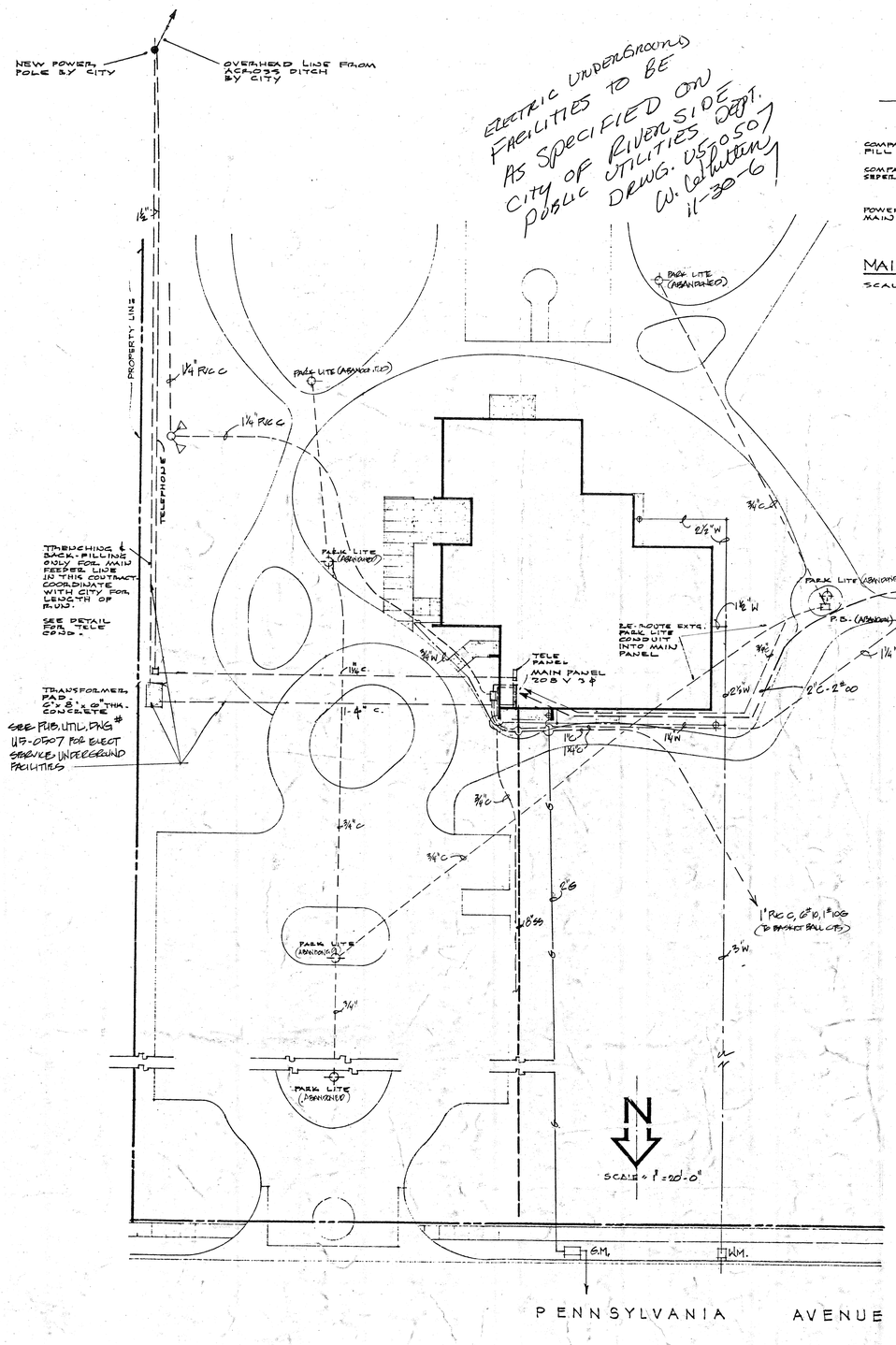

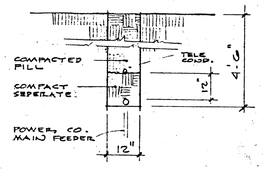

MAIN FEEDER TRENCH

SCALE ½" = 1'-0"

THIS SHEET FOR REFERENCE ONLY

GENERAL NOTES:

ELECTRICAL CONTRACTOR TO INSTALL UNDERGROUND SERVICE CONDUIT FROM TRANSFORMER PAD TO MAIN PANEL BY DRILLING AT THE TIME THE BUILDING AREA IS EXCAVATED FOR BLDG. PAD PREPARATION. (THE ENTIRE BLDG. PAD IS TO BE EXCAVATED ± 4'-0")

W = WATERLINE
G = GASOLINE
SS = SANITARY SEWER
PVC C = POLYVINYL CHLORIDE CONDUIT
C = ELECT COND. (MATERIAL UNKNOWN)

NORTH

"AS-EXISTS" 9-29-88 RO

SCALE 1" = 20'-0"

THIS SHEET FOR REFERENCE ONLY

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CITY OF RIVERSIDE
BORDWELL PARK

AREA A
ELECTRICAL PLAN
EXISTING

Date:
Revisions:

no	date	by

drawn by

Sheet: 20 of 26

DWG. No. E-1

PLAN NO. P-0506

DRAWING NUMBER
SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 6552
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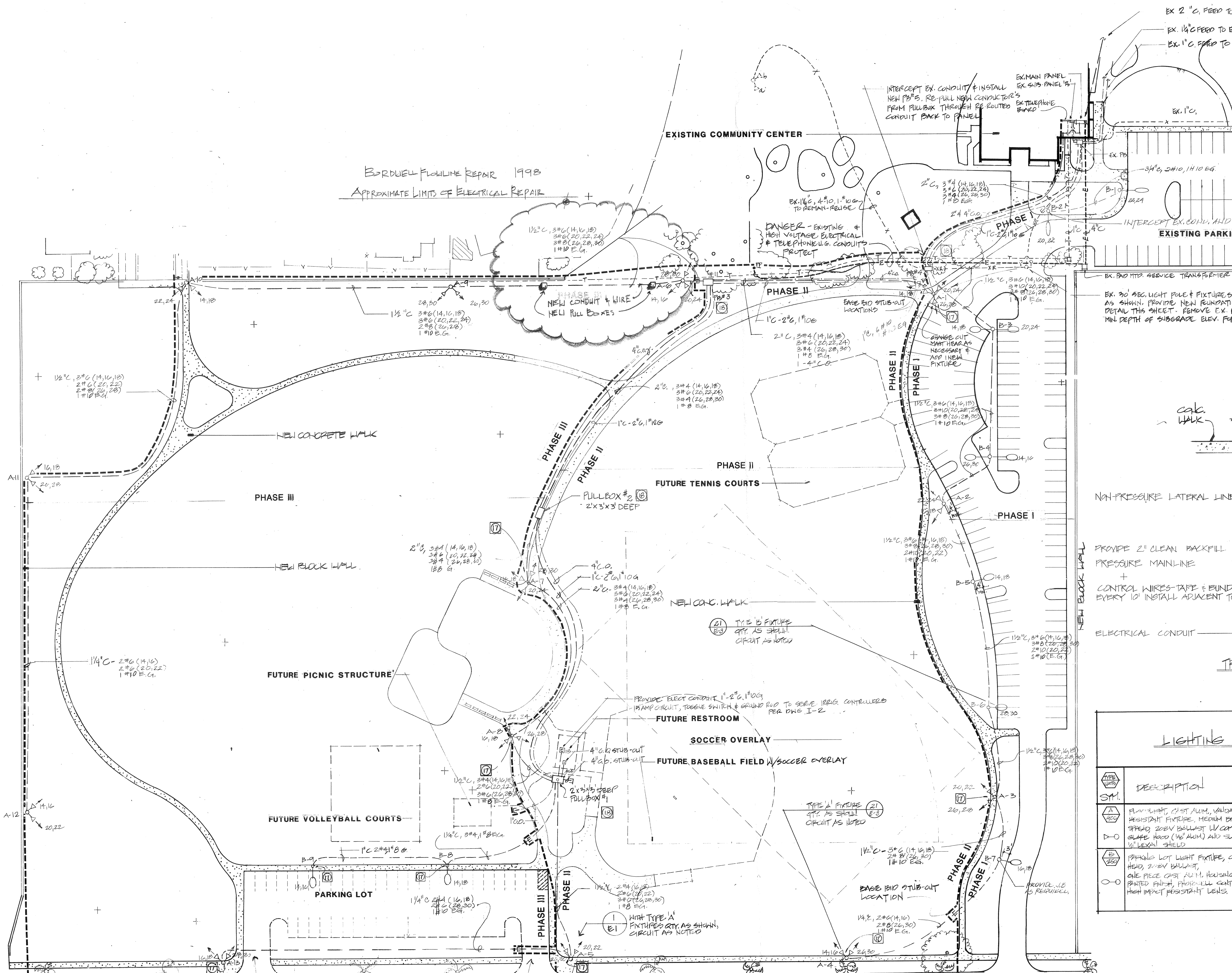

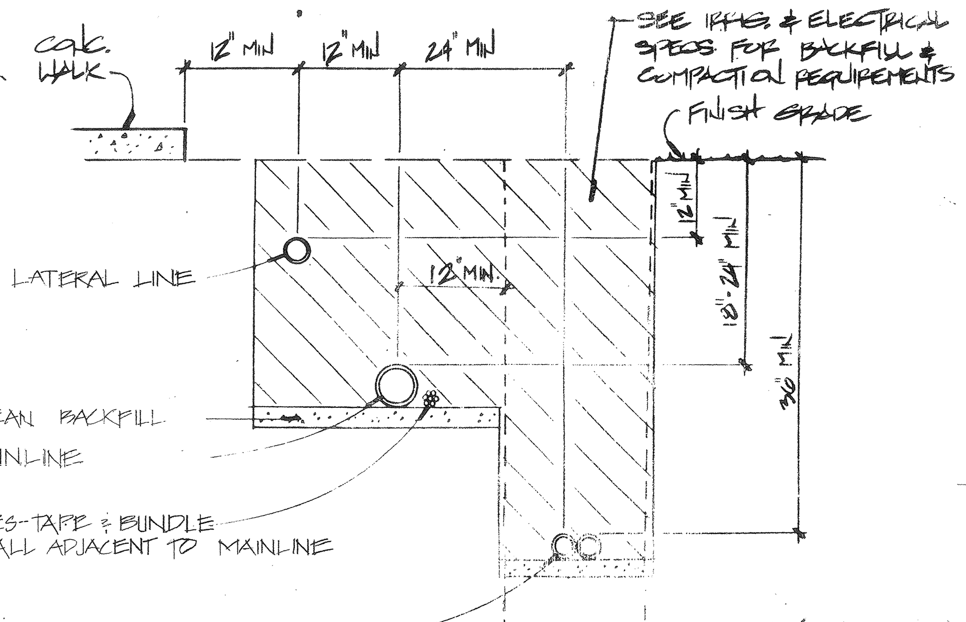

TRENCHING DIAGRAM

GENERAL NOTES

1. ALL POLES SHALL HAVE RIGID GALVANIZED CONDUIT SWEEPS IN BASES TO 36" BELOW GRADE, POLES TO BE TRUE AND PLUMB AND BONDED TO GROUND WIRE.
2. OBTAIN ROUTE FOR VEHICLE TRAFFIC AT SITE FROM PARKS AND RECREATION DEPT.
3. ALL UNDERGROUND PVC CONDUIT SHALL HAVE 36" OF COVER.
4. VISIT JOB SITE, VERIFY EXISTING CONDITIONS, AND INCLUDE IN BID ALL WORK REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
5. ALL SPLICES IN HANDHOLES AND PULLBOXES TO BE WATERPROOF.
6. ALL EXPOSED HARDWARE (FASTENERS) TO BE TAMPERPROOF INCLUDING PULLBOX AND HANDHOLE FASTENERS.
7. COORDINATE ELECTRICAL WORK WITH REQUIREMENTS OF OTHER TRADES.
8. COORDINATE ELECTRICAL SERVICE CONNECTIONS AND INCLUDE IN BID ALL COSTS INVOLVED, INCLUDING MATERIAL, LABOR, AND PERMITS.
9. PROVIDE GROUNDING WHERE INDICATED, & AS REQUIRED BY CODE.

NOTE: INSTALL ELECT. COND. SLEEVES UNDER DRIVES AS PART OF BASE BID ITEM A.

10. INSTALL ALL LIGHT POLES & PULLBOXES PER THE LAYOUT & STAKING PLAN
11. ALL LABOR AND MATERIALS SHALL MEET FULLY WITH ALL REQUIREMENTS OF ELECTRICAL CODES HAVING AUTHORITY.
12. IF NON-METALLIC CONDUIT IS USED, PROVIDE GROUND WIRE.
13. ALL EQUIPMENT SHALL BE LEFT CLEAN. PREMISES SHALL BE CLEANED OF DIRT AND DEBRIS.
14. CONTRACTOR SHALL FURNISH FOR APPROVAL, SHOP DRAWINGS OF SERVICE EQUIPMENT, POLES, LIGHTING FIXTURES, AND CONTROL DEVICES PRIOR TO PURCHASE.
15. POLE AND MAST ARMS SHALL BE DESIGNED TO SUPPORT THE NUMBER OF LUMINAIRES CALLED FOR ON EACH POLE, WIND LOADING AND POLE DESIGN SHALL CONFORM TO THE LATEST EDITION OF THE U.B.C. MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, ALL CALCULATIONS TO BE SIGNED BY CALIFORNIA REGISTERED PROFESSIONAL ENGINEER.
16. THE ELECTRICAL SUBCONTRACTOR MUST BE LICENSED BY THE STATE (C-10) AND MUST VISIT THE JOB SITE PRIOR TO BIDDING, EXAMINE EXISTING CONDITIONS, AND INCLUDE IN HIS BID ALL LABOR AND MATERIAL TO INTERFACE WITH EXISTING SYSTEMS.

(17) LOCATE FIXTURE IN WALKWAY POLE 8" CLEAR OF EDGE. COORDINATE FOUNDATION ELEV. W/CONCRETE WALKWAY WORK SO THAT WALKWAY POUR IS FLUSH & COVERS NUTS & ANCHOR BOLTS

(18) PULLBOX 2'x3'x3' DEEP W/BOLT DOWN STEEL COVER, ALL PULL BOXES TO HAVE BOLT DOWN STEEL COVERS.

—·— NEW PVC

— — — NEW PVC ELECTRICAL U.G. CONDUIT & WIRE AS NOTED

— — x — — EX. PVC ELECT. CONDUIT BELOW GRADE - TO REMAIN

— — XR — — EX. PVC ELECT. CONDUIT BELOW GRADE - TO BE ABANDONED, REMOVE CONDUCTORS

— — T — — EX. UNDERGROUND TELEPHONE - PROTECT

— — E — — EX. HIGH VOLTAGE UNDERGROUND ELECTRIC - PROTECT

—·—3 STUB OUT LOCATION

NOTE: PROVIDE UG. PULLBOX AT EACH POLE (PER BROOKS # 5-PB) OR CITY APPROVED EQUAL.— SET P.B. IN TURF AREA MIN. 48" FROM EDGE OF WALK

LIGHTING FIXTURE SCHEDULE

TYPE / WATTS SYM.	DESCRIPTION	LAMPS WATTS	LAMPS TYPE	VOLTS	REMARKS
A / 400 ▷—○	FLOODLIGHT, CAST ALUM., VANDAL RESISTANT FIXTURE, MEDIUM BEAM SPREAD, 208V BALLAST W/ COMBINATION GLARE HOOD (1/8" ALUM.) AND SLOPING 1/4" LEXAN SHIELD	400W	H.P.S.	208V	SEE SPECIFICATIONS FOR MFR & MODEL No.
B / 250 ○—○	PARKING LOT LIGHT FIXTURE, COBRA HEAD, 208V BALLAST, ONE PIECE CAST ALUM. HOUSING, GRAY PAINTED FINISH, PHOTOCELL CONTROLLED, HIGH IMPACT RESISTANT LENS.	250W	H.P.S.	208V	" " " "

north

SCALE : 1" :: 40' - 0"

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CITY OF RIVERSIDE
BORDWELL PARK

AREA B
ELECTRICAL PLAN
AS BUILT

Date:
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Sheet: 21 of 26

DWG. No. E-2

PLAN NO. P-0506

ALL WORK THIS SHEET IN MULTIPLE BID SCHEDULE

DRAWING NUMBER
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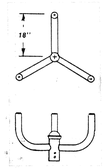
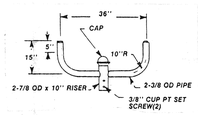
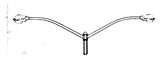
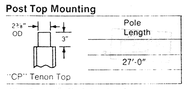


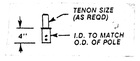


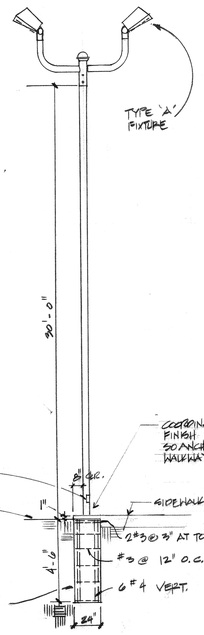


Post Top Mounting



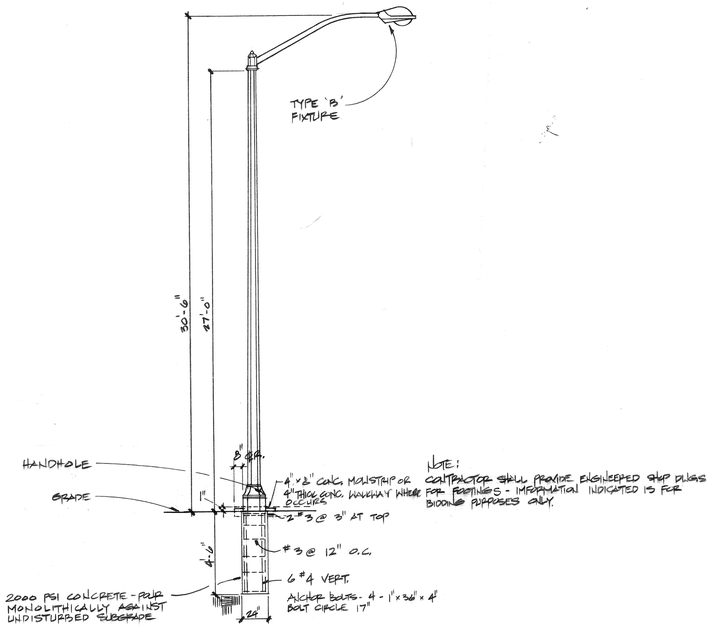
Pole Length
27'-0"





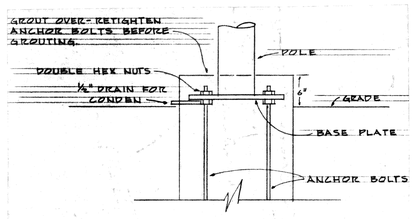
METAL POLE (TYPE I)

BASE BID (PHASE I)	1 EA. RELOCATE - ADD TRIPLE BULLHORN. 2 EA. NEW - DOUBLE BULLHORN.
ADDITIVE BID (PHASE II)	2 EA. - TRIPLE BULLHORN 2 EA. - DOUBLE BULLHORN
ADDITIVE BID (PHASE II)	1 EA. - TRIPLE BULLHORN 5 EA. - DOUBLE BULLHORN

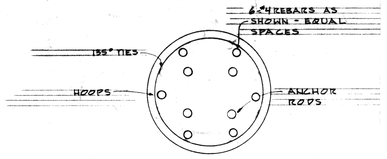


CONCRETE POLE (TYPE II)

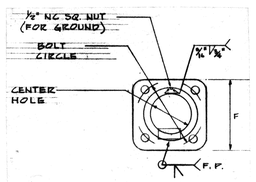
BASE BID (PHASE I)	5 EA. SINGLE MAST 2 EA. DOUBLE MAST
ADDITIVE BID (PHASE II)	2 EA. SINGLE MAST

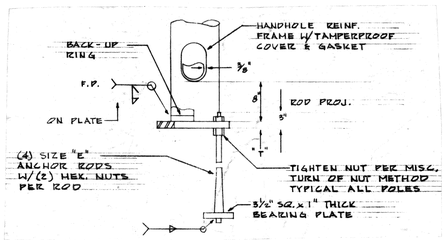


GROUTING DETAIL
NO SCALE

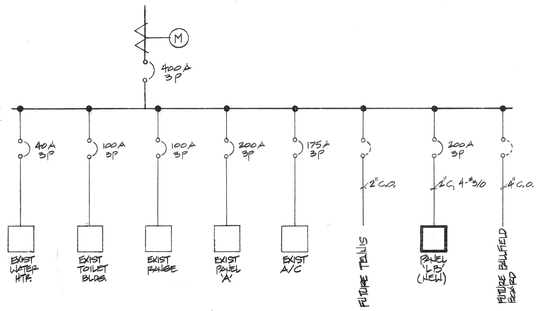


CONCRETE BASE DETAIL
(METAL POLE - CONCRETE POLE SIMILAR)





BASE PLATE DETAIL
(METAL POLE)



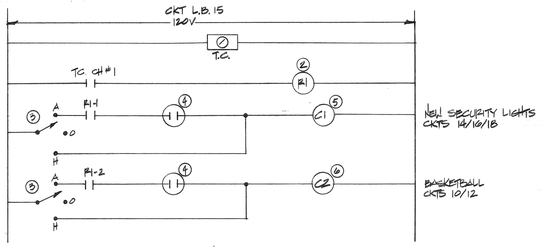
SINGLE LINE DIAGRAM (BASE BID 'A')

LOAD SUMMARY

MAXIMUM DEMAND 1988 -		48 KW
NEW SECURITY LIGHTING		14.4
NEW PARKING LIGHTING		2.7
FUTURE BALLFIELD LIGHTING		61.0
FUTURE TENNIS COURT LIGHTING		17.5
FUTURE PICNIC SHELTER		10.0
		105.6 KW (TOTAL NEW & FUTURE)
MAX. DEMAND	48 x 1.25 =	60
NEW LIGHTING	17.1 x 1.25 =	21.4
		81.4 KW or 226.1 A @ 120/208V 3 ϕ
FUTURE LIGHTING	78.5 x 1.25 =	98.1
OTHER	10 KW	10.0
		189.5 KW or 526.4 A @ 120/208V 3ϕ

NOTES:

1. Existing service is adequate for security and parking lot lighting.
2. For future ballfield, tennis court lighting and picnic shelter, the service must be increased to 800A 120/208V3ϕ or 400A 277/480V3ϕ service with a 112 1/2 KVA 480 120/208V3ϕ transformer to serve the existing 400A 120/208V3ϕ board.



CONTROL SCHEMATIC (ALL CONTROLS - BASE BID 'A')

1. 4 channel electronic programmable time control.
2. 2 P N.O. control relay - 3 each.
3. Hand-off, auto switch - 6 each.
4. Photocell on roof facing north - 6 each.
5. 6. Contactors - see notes 2 & 3 panel schedules.
7. New security lights CKTS 20/22/24 and existing security lights, circuits 6/8 control similar except on channel #2 of timer.
8. New security lights CKTS 26/28/30 and existing security lights, circuits 2/4 control similar except on channel #3 of timer.

PANEL LB SCHEDULE

VOLTAGE/PHASE 120/208V 3ϕ 4W BUS SIZE 200A MAIN SIZE 400A MOUNTING SURFACE

ITEM	WATTS A	WATTS B	WATTS C	LTG	REC	SPARE	CKT	BKR	BUS	BUS	BKR	CKT	WATTS A	WATTS B	WATTS C	ITEM
*EXIST LOAD	1000						1	15/1			50/2	2	2250			EXIST PANEL LTS *
*		1000					3				—	4		2250		*
*			1000				5				30/2	6			1575	EXIST PARK REAR LTS *
*	1000						7				—	8	1575			*
*		1000					9				20/2	10		900		EXIST BASKETBALL *
#5A CONTROL RLY.			500				11	15/1			—	12			900	*
NEW CTLR	200						13	15/1			30/3	14	2244			SECURITY LTS △
TIMER #1		600					15	20/1			—	16		2238		—
							17				—	18			2430	—
							19				30/3	20	1734			SECURITY LTS △△
							21				—	22		1734		—
							23				—	24			1766	—
							25				30/3	26	1912			SECURITY LTS △△△
							27				—	28		1766		—
							29				—	30			2244	—
							31					32				
							33					34				
							35					36				
							37					38				
							39					40				
							41					42				

PHASE TOTALS ϕ A 11615 W ϕ B 11348 W ϕ C 10715 W

LCL 27,378 W X 1.25 % = 34,223 W
OTHER LOAD = 6300 W
TOTAL LOAD = 40523 W OR 112.6 AMPS

ALL PANEL WORK TO BE BASE BID ITEM 'A'

NOTES:

*1. Existing loads 1, 3, 5, 7, 9, 11, 2/4, 6/8 and 10/12 shall be transferred to new panel "B". Remove interior of existing load center and use as a junction box. Provide a new blank cover.

2. Provide and install a 50A-2p, 120V coil, and 2-30A-2p, 120V coil, lighting contactors for circuits 2/4, 6/8 and 10/12 respectively. Remove mechanical time switches.

3. Provide and install 1 each of 30A-3p lighting contactor, 120V coil, for circuits 14/16/18, 20/22, 24 and 26/28/30 (3 total):
   30A-2p lighting contactor - SQ D Class 8903 Type SMO-1.
   30A-3p lighting contactor - SQ D Class 8903 Type SMO-2.
   50A-2p lighting contactor - SQ D Class 8903 Type SPO-1.

4. Provide and install a 4 channel electronic programable time control, 3 relays, 6 photocells and 6 hand-off auto switches.

5. Install contactors and relays in a cabinet of adequate size with the H-O-A switch mounted on the door. Provide B/W micarta nameplates.

6. Security light groups - see Control Schematic:
   △a. CKTS 10/12 and 14/16/18 - "ON" at dusk, "OFF" at 10:00 PM.
   △△b. CKTS 6/8 and 20/22/24 - "ON" at dusk, "OFF" at 2:00 AM.
   △△△c. CKTS 2/4 and 26/28/30 - "ON" at dusk, "OFF" at dawn.

city of riverside
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department
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CITY OF RIVERSIDE
BORDWELL PARK

Date:
Revisions:

no.	date	by

drawn by:

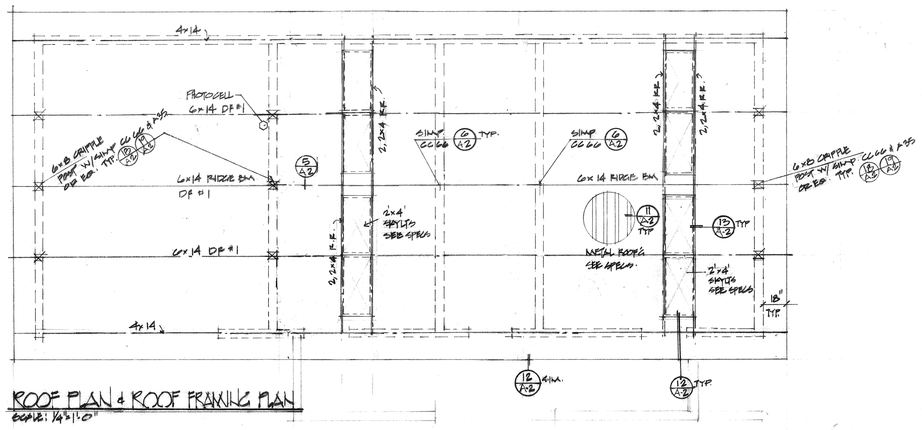
Sheet: 22 of 26

DWG. No. E-3

PLAN NO. P-0506

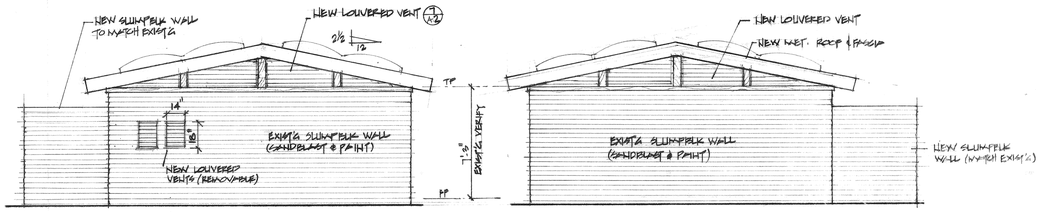
DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER B0-62 | DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR



ROOF PLAN & ROOF FRAMING PLAN

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

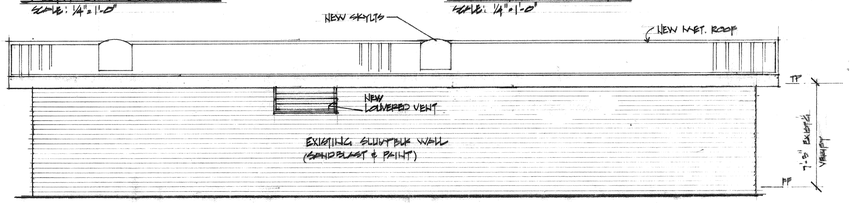


RIGHT SIDE ELEVATION

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

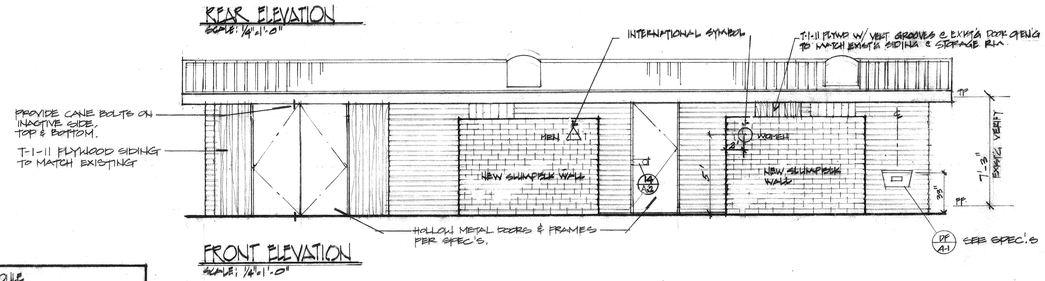
LEFT SIDE ELEVATION

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



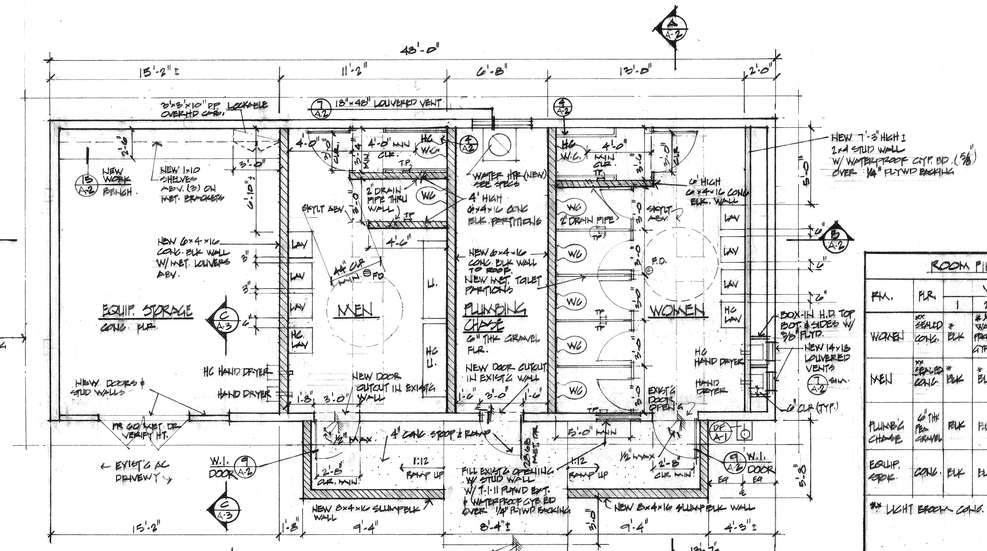
REAR ELEVATION

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



FRONT ELEVATION

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



FLOOR PLAN

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

4 2 / 3 KEY TO INTERIOR ELEVATIONS

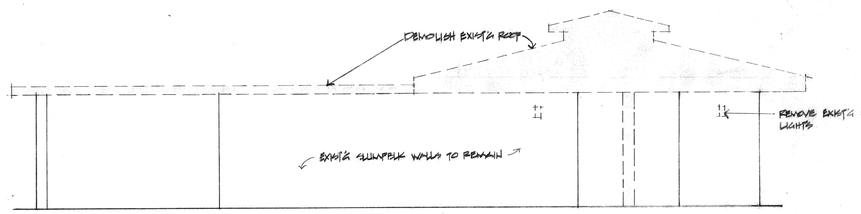
NEW BLK WALLS
EXISTG BLK WALLS

ROOM FINISH SCHEDULE							
RM.	FLR.	WALLS 1	2	3	4	CLG.	REMARKS
WOMEN	VIN. SEALED CONC.	* BLK	* BLK WATER PROOF GYP. BD	* BLK	* BLK	EXP. WOOD STAIN & RAFTERS	*INORGANIC CLADDED CERMIC. VITROGRAN. OR EQ. FIN. ON WALLS
MEN	VIN. SEALED CONC.	* BLK	* BLK	* BLK	* BLK	"	* SAME AS ABV.
PLUMBING CHASE	6" THK FILL GRAVEL	BLK	BLK	BLK	BLK	"	NATURAL BLK FIN.
EQUIP. STORE.	CONC.	BLK	BLK	BLK	BLK	"	NATURAL BLK FIN.

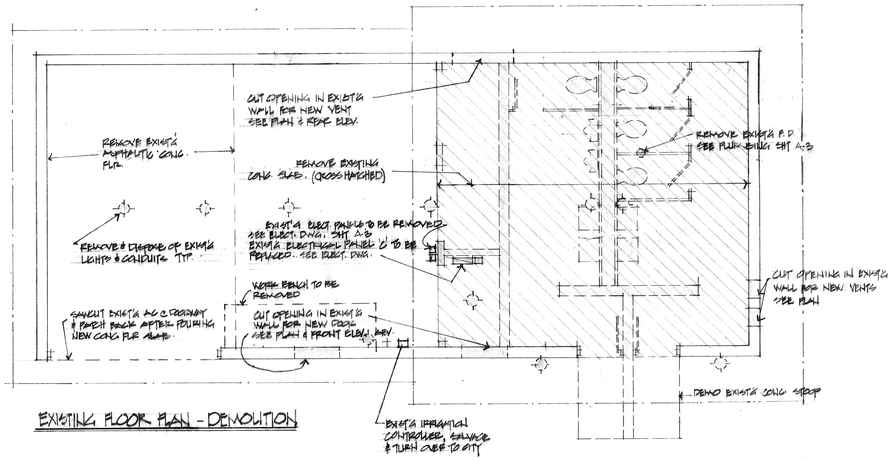
* LIGHT BROOM CONC FINISH

DEMOLITION NOTES

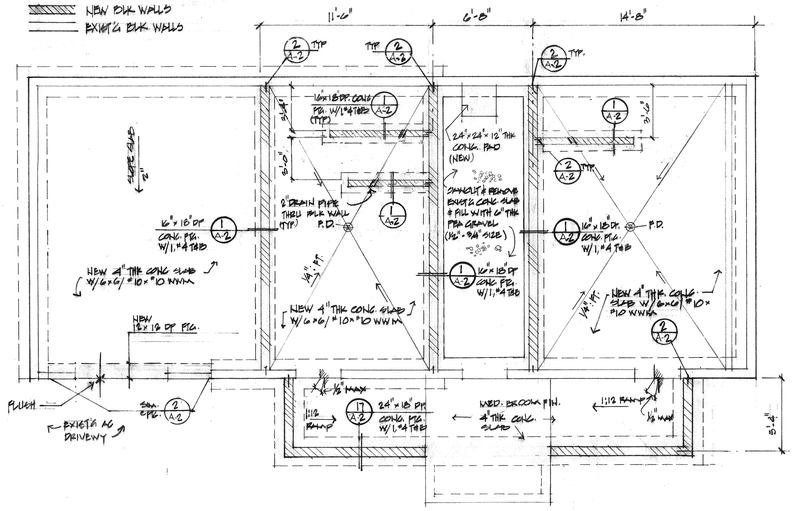
1. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE DEMOLITION, VERIFY ALL CONDITIONS, & BRING TO THE ATTENTION OF THE CITY & ARCHITECT ANY DISCREPANCIES PRIOR TO AND DURING CONSTRUCTION.
2. VERIFY ALL DRAWINGS INCLUDING ARCH'L, PLUMBING & ELECTRICAL.
3. ALL SALVAGABLE ITEMS SHALL BE THE PROPERTY OF THE CITY & SHALL BE STORED AS DESIGNATED BY THE CITY. CONTRACTOR TO PROTECT INTERIOR.
4. ALL DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE.
5. WHERE REMOVAL OF PLUMBING FIXTURES, ETC. IS INDICATED CAREFULLY REMOVE ALL PIPING TO NEAREST MAIN LINES & CAP.
6. REMOVE EXISTING INTERIOR WALLS WHERE INDICATED AND REMOVE ALL DAMAGED WALLS AT CONSTRUCTION RELATED AREAS TO ORIGINAL CONDITION.
7. WHERE EXISTING CONSTRUCTION IS CUT OR OTHERWISE DISTURBED TO PERMIT INSTALLATION OF NEW WORK PATCH & REPAIR EXISTG TO MATCH NEW WORK. USE METHODS & MATERIALS WHICH ARE SIMILAR IN APPEARANCE AND BUILT IN QUALITY.
8. ALL ABANDONED PLUMBING LINES, ELECTRICAL CONDUITS OR BOXES SHALL BE REMOVED BACK TO CLOSEST FEEDER OR LIT.
9. CONTRACTOR SHALL PROVIDE SHORING & BRACING AS REQUIRED PER CODE PRIOR TO DEMOLISHING EXISTG CONSTRUCTION.
10. PROVIDE TEMPORARY DUSTPROOF PARTITIONS WHERE NECESSARY TO PREVENT INFILTRATION OF DUST INTO OCCUPIED AREAS OF BLDGS. PROVIDE WEATHER PROTECTION AS NECESSARY TO PREVENT DAMAGE TO EXISTING FACILITIES.
11. CONTRACTOR TO PROVIDE SAFETY MEASURES TO PREVENT INJURY TO PERSONS.
12. IF JACK-HAMMERING, CORE DRILLING OR CONCRETE SAWING IS GOING TO BE UTILIZED, IT SHALL BE DONE ONLY WITH THE PERMISSION OF THE CITY AND AT SUCH TIMES AS DESIGNATED.



EXISTING ELEVATION - DEMOLITION



EXISTING FLOOR PLAN - DEMOLITION



FOUNDATION PLAN

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

NEW FTG.
EXISTG FTG.

DEMOLITION PLAN

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

EXISTG TO BE DEMOLISHED.
EXISTG TO REMAIN.
EXISTG SLAB TO BE DEMOLISHED

REVISIONS	BY

city of riverside park & recreation department
(714) 782-5223
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522

RESTROOM PLAN
BORDWELL PARK RESTROOM BLDG REHABILITATION
CITY OF RIVERSIDE PARK & RECREATION DEPT.
3005 PENNSYLVANIA AVE. RIVERSIDE, CA.

L.M. TAKITA & ASSOCIATES
ARCHITECTURE · PLANNING
17151 Newhope St., Design Cntr. Ste. 212, Fountain Valley, California 92708 · (714) 540-5212

Date	2/18/87
Scale	
Drawn	
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Sheet	23 of 26
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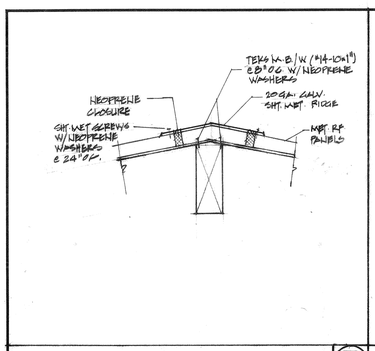
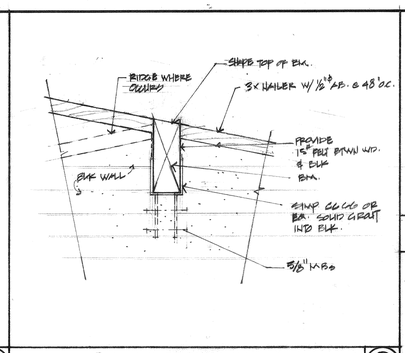
ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

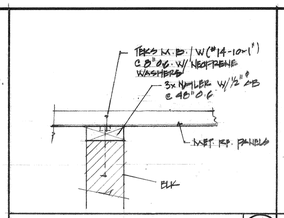
30 X 42 PRINTED ON NO. 1000H CLEARPRINT



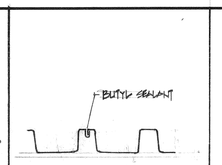
RIDGE (5)



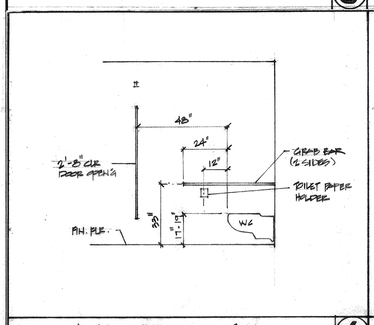
BEAM @ BLOCK WALL (AT PLUMBING CHASE) (6)



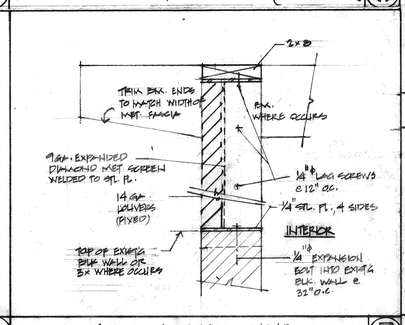
BLK WALL / ROOF (10)



METAL ROOF SEAM (11)

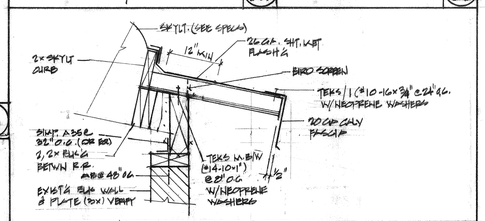


HANDICAPPED W.C. STALL (4)

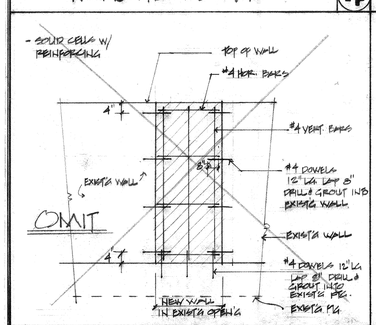


TYPICAL LOUVERED VENT (7)

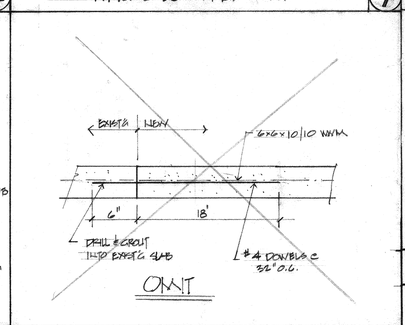
SKYLT / FASCIA (12)



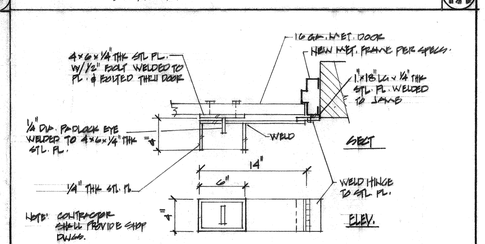
SKYLIGHT (13)



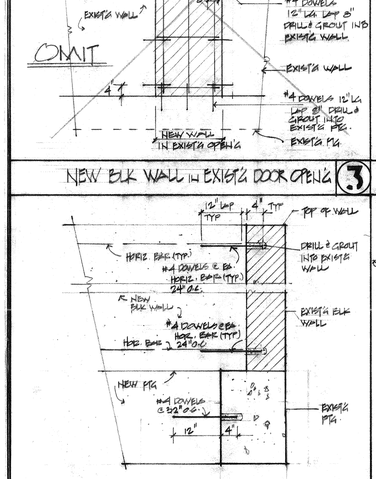
NEW BLK WALL IN EXISTG DOOR OPENING (3)



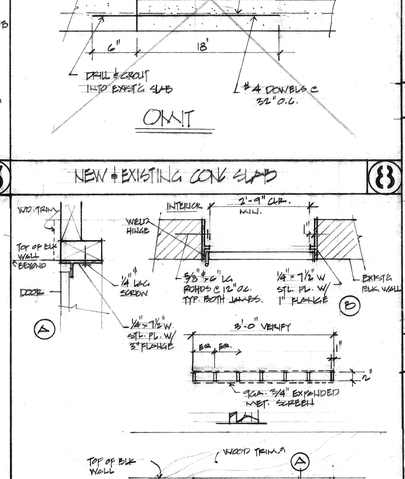
NEW & EXISTING CONC SLAB (8)



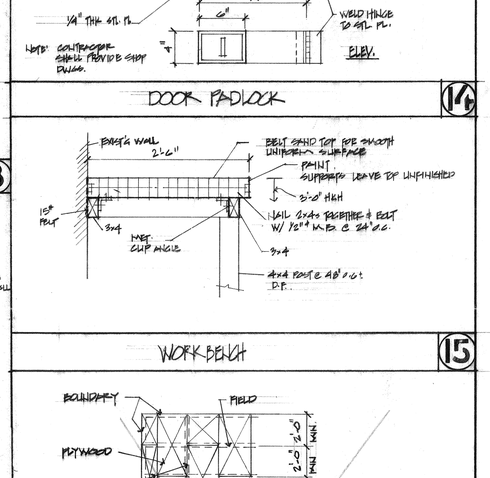
DOOR PADLOCK (14)



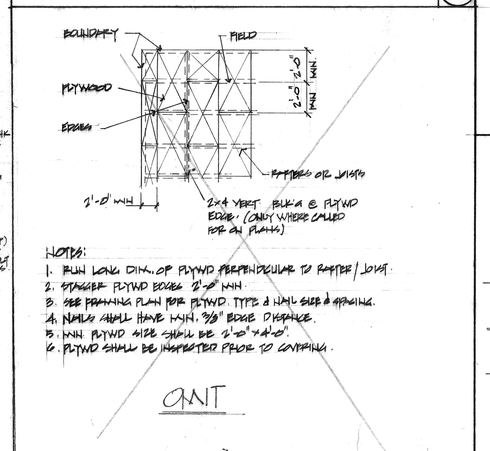
INTERSECTION OF NEW & EXISTG BLK. WALL (2)



TYPICAL W.I. DOOR (9)



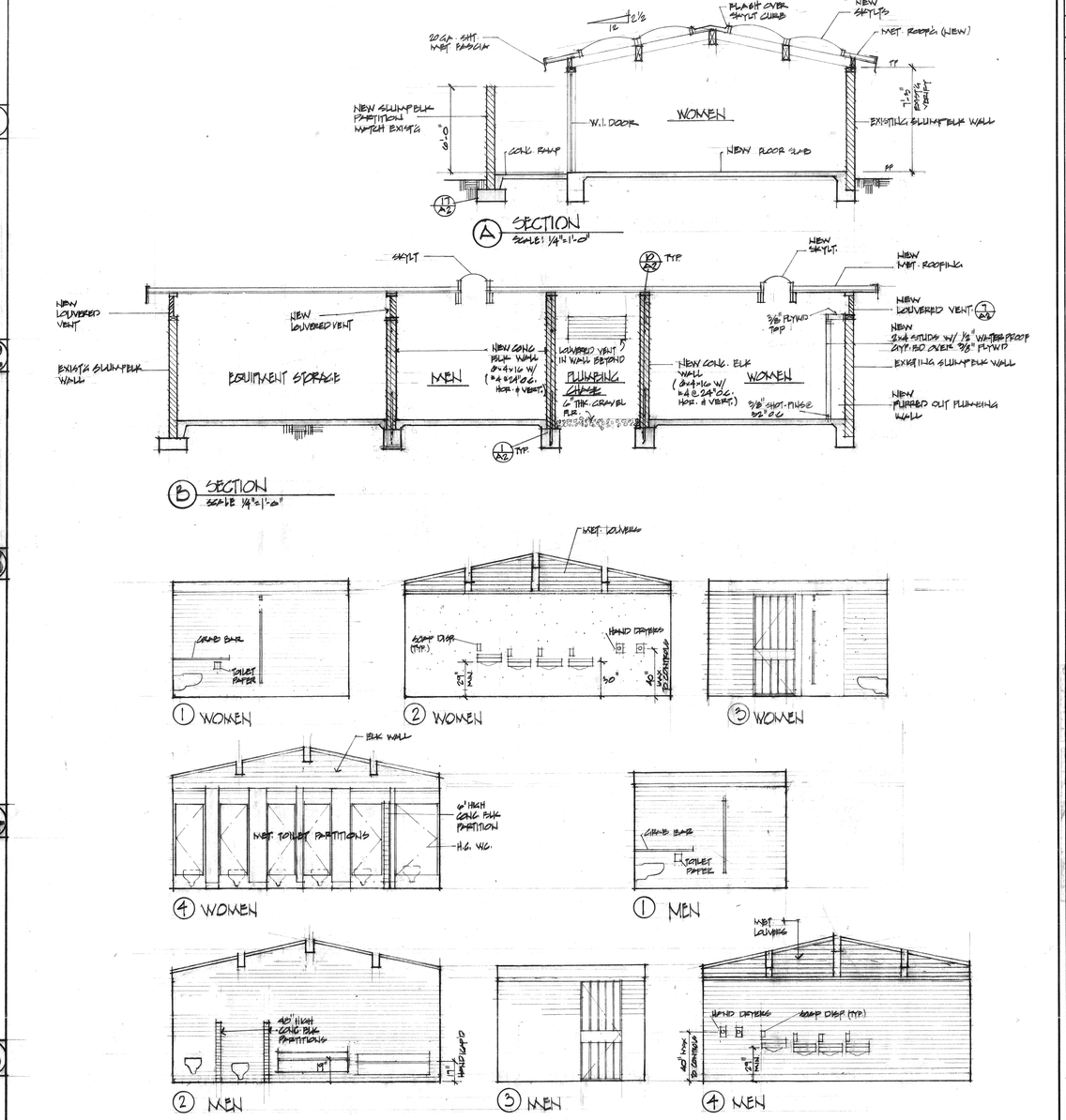
WORK BENCH (15)

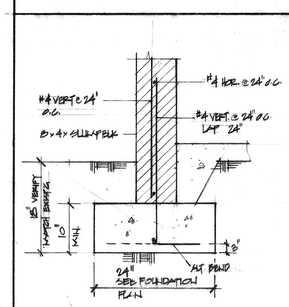


NOTES:
1. RUN LONG DIM. OF PLYWD PERPENDICULAR TO RAFTER / JOIST.
2. STAGGER PLYWD EDGES 2'-0" MIN.
3. SEE FRAMING PLAN FOR PLYWD. TYPE & NAIL SIZE & SPACING.
4. NAILS SHALL HAVE MIN. 3/8" EDGE DISTANCE.
5. MIN. PLYWD SIZE SHALL BE 2'-0" x 4'-0".
6. PLYWD SHALL BE INSPECTED PRIOR TO COVERING.

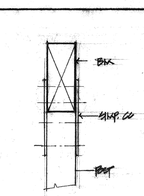
OMIT

FLYWOOD DIAPHRAGM (16)

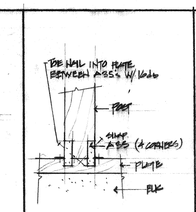




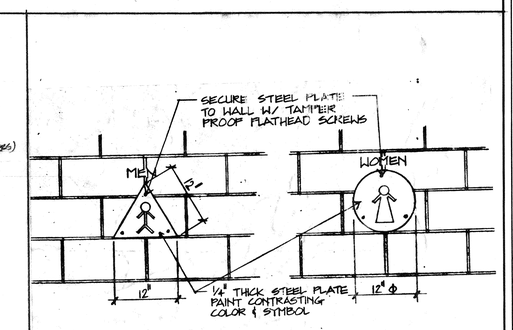
TYPICAL FOOTING (17)



POST @ BEAM (18)



POST @ PLATE (19)



RESTROOM SYMBOL

NTS

TYPICAL FOOTING (1)

TYPICAL W.I. DOOR (9)

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REVISIONS	BY

city of riverside
park & recreation department
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522
(714) 782-5223

RESTROOM PLAN DETAILS
BORDWELL PARK RESTROOK BLDG. RENOVATION
CITY OF RIVERSIDE PARK & RECREATION DEPT.
3900 MAIN STREET, RIVERSIDE, CA

L.M. TAKITA & ASSOCIATES
ARCHITECTURE • PLANNING
17151 Newhope St. Design Cntr. Ste. 212, Fountain Valley, California 92708 • (714) 540-3212

Date	2/4/89
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ALL WORK THIS SHEET IN BASE BID ITEM A

PLAN NO. P-0506

LIGHTING FIXTURE SCHEDULE

TYPE	FIXTURE: INCAND.	FIXTURE: FLUOR.	FIXTURE: H.I.D.	VOLTS	LAMPS: NO.	LAMPS: WATTS AND TYPE	MOUNTING: REC.	MOUNTING: CLG.	MOUNTING: PEND.	MOUNTING: WALL	DESCRIPTION & VARIATIONS	MANUFACTURER & CATALOG NUMBER
C 72	●			120	1	75W A-19		●			SURFACE MOUNT TO FRIDGE BAR	KENALL OR EQ. SEE SPECS
D 72		●		120	2	34W PAO T12 RS/CW		●			4' FLUOR. STRIP CHAIN PENDANT W/ WIRE GUARD	LIGHTA OR EQ. SEE SPECS.
E 100	●				1	100W A-19				●	WALL BRACKET	KENALL OR EQ. SEE SPECS

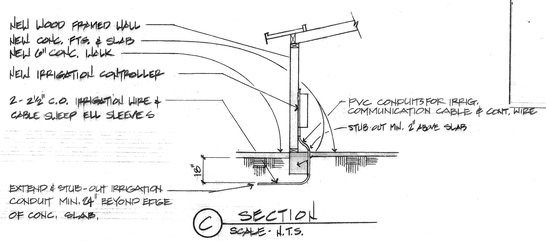
ELECTRICAL SYMBOL LIST

(REFER TO DRAWINGS FOR APPLICATION)

- SLV — SLEEVE (WIRE CHASE)
- FLUORESCENT LIGHTING FIXTURE RECESSED IN CEILING
- FLUORESCENT LIGHTING FIXTURE WALL MOUNTED
- FLUORESCENT LIGHTING FIXTURE SURFACE OR PENDENT MOUNTED
- FLUORESCENT STRIP LIGHTING FIXTURE
- INCANDESCENT OR H.I.D. LIGHTING FIXTURE SURFACE MOUNTED ON BOX
- INCANDESCENT OR H.I.D. LIGHTING FIXTURE RECESSED MOUNTED
- INCANDESCENT OR H.I.D. LIGHTING FIXTURE WALL MOUNTED
- EXIT SIGN LIGHTING FIXTURE, DIRECTIONAL ARROW AS SHOWN
- DUPLEX RECEPTACLE @ +12" OR AS NOTED. GROUNDING TYPE
- DUPLEX RECEPTACLE HALF-SWITCHED @ +12" OR AS NOTED. GROUNDING TYPE
- FLUSH CEILING MOUNTED DUPLEX RECEPTACLE, GROUNDING TYPE
- $ — TOGGLE SWITCH, SINGLE POLE, FLUSH MOUNTED @ 4'-0" OR AS NOTED
- $3 — THREE-WAY TOGGLE SWITCH MOUNTED @ 4'-0" OR AS NOTED
- $M — MANUAL MOTOR STARTER W/THERMAL OVERLOAD PROTECTION, 1 OR 2 POLE AS REQUIRED.
- F — DISCONNECT SWITCH, HORSEPOWER RATED. "F" DENOTES FUSED TYPE
- LIGHTING OR RECEPTACLE PANELBOARD. @ +5'-6" TO TOP
- A — FIXTURE DESIGNATION, "A" =FIXTURE TYPE, 2/34 = TWO 34 W LAMPS
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL
- CONDUIT RUN CONCEALED IN OR BELOW FLOOR OR GRADE
- FLEXIBLE CONDUIT
- (P-1,3) — HOMERUN TO PANEL "P" CIRCUITS #1 & #3 WITH WIRES AS NOTED
- 2 — PLAN NOTE #2
- T — TELEPHONE CONDUIT 3/4" C.O. RUN FROM OUTLET TO CEILING SPACE
- TELEPHONE MAIN BACKBOARD OR TERMINAL BOX
- EXHAUST FAN
- J — JUNCTION BOX

ELECTRICAL WIRING LEGEND :

1/2"C - 2#12.	1/2"C - 3#12.	3/4"C - 4#12
3/4"C - 5#12.	1 "C - 6#12.	1" C - 7#12
1/2"C - 2#10.	3/4"C - 3#10	3/4"C- 4#10

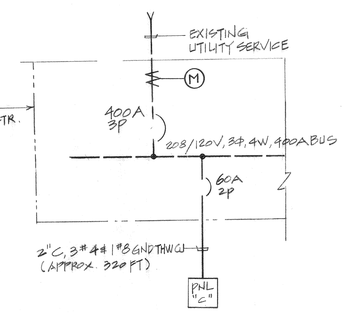


C SECTION
SCALE - N.T.S.

MAIN 100A BREAKER. PANEL "C" MOUNTING SURFACE
BUS 100A 208/120 VOLT. PHASE, 3 WIRE DWG. NO.

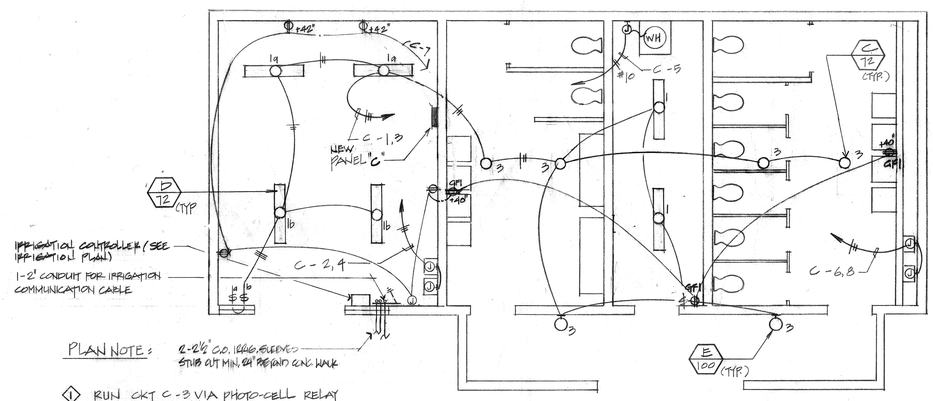
DESCRIPTION	WIRE	CONDUIT	VOLT-AMPS A	VOLT-AMPS B	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR P	BRKR AMP	VOLT-AMPS A	VOLT-AMPS B	CONDUIT	WIRE	DESCRIPTION
LIGHT	6		432		15	1	1		2	1	15	800				HAND DRYER
↓	6			400	15	1	3		4	1			800			↓
WATER HTR.			2300		30	1	5		6			800				
SPACE	8		—	1440	20	1	7		8	↓	↓	—	800	↓		SPACE
				—			9		10			—	—			
							11		12							
							13		14							
							15		16							
							17		18							
							19		20							
							21		22							
							23		24							
							25		26							
							27		28							
							29		30							
							31		32							
							33		34							
							35		36							
							37		38							
							39		40							
							41		42							
TOTALS			2732	1728								1600	1600			

2400 Watts (L.C.L.) x 1.25 = 3000 Watts
Other load = 4460 Watts
Total = 7460 Watts Total Amps 36.3



SINGLE LINE DIAGRAM

EXISTING
NEW INSTALLATION



PLAN NOTE: 2-2½" C.O. IRRIG. SLEEVES STUB OUT MIN. 24" BEYOND CONC. WALK

1 RUN CKT C-3 VIA PHOTO-CELL RELAY CONTACT ADJACENT TO PNL "C"; PHOTO-CELL CONTROLL MOUNTED ON ROOF W.P. J-BOX FACING NORTH

LIGHTING & POWER PLAN

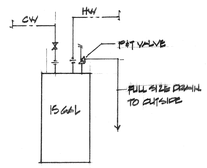
SCALE: 1/4" = 1'-0"

ELECTRICAL

Consolidated Engineering
2512 CHAMBERS ROAD, SUITE 101
TUSTIN, CALIFORNIA 92680
(714) 544-5711

PLUMBING NOTES

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES
2. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BID & CONSTRUCTION AND NOTIFY THE CITY OF ANY DISCREPANCIES REGARDING EXISTS CONDITIONS
3. MOUNT ALL HANDICAPPED FIXTURES PER TITLE 24 REQUIREMENTS
4. SANITARY PIPING SHALL BE 'NO-HUB' CAST IRON SOIL PIPE
5. COLD WATER PIPING SHALL BE TYPE 'L' COPPER
6. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS
7. CONTRACTOR SHALL PAY FOR ALL PERMITS & FEES
8. CONTRACTOR TO VERIFY WATER PRESSURE & PROVIDE PRESSURE REDUCING VALVE IF REQUIRED FOR PROPER OPERATION OF FIXTURES
9. ALL WASTE LINES SHALL HAVE 22½° BENDS
10. CLEAN-OUTS SHALL BE 4" MIN.
11. VTR SHALL BE INDIVIDUAL VENT LINES, BACK EXTENDED THROUGH THE ROOF. DO NOT MANIFOLD



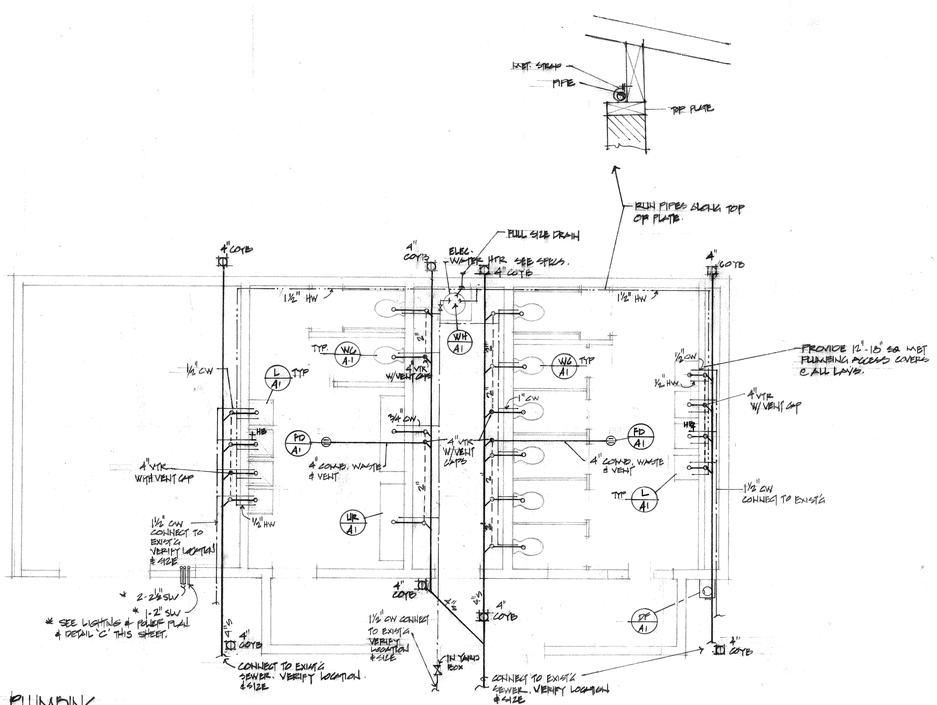
WATER HEATER DETAIL

PLUMBING FIXTURE SCHEDULE

SYM.	FIXTURE	CW	HW	W	V	T	REMARKS
WC 1	WATER CLOSET	1"		3"	2"	INT.	VITREOUS CHINA SEE SPECS MOUNT 1 FOR HANDICAP'D
L 1	LAVATORY	½"	½"	2"	2"	2"	"
UR 1	URINAL	¾"		2"	2"	2"	"
FD 1	FLOOR DRAIN			4"	2"	4"	SEE SPECS
WH 1	WATER HEATER	1½	1½				15 GAL, SEE SPECS FOR DETAIL
DF 1	DRINKING FOUNTAIN	½"		¼"		INT.	SEE SPECS

PLUMBING SYMBOLS

	S OR W	SOIL OR WASTE ABV. FLR.
	S OR W	SOIL OR WASTE BELOW FLR.
	V	VENT
	CW	COLD WATER
	FCO/COTG	FLR. CLEAN OUT/CLEANOUT TO GRADE
	COYB	CLEAN OUT IN YARD BOX
	WCO	WALL CLEAN OUT
	SOV	SHUTOFF VALVE
	U	UNION
	HB	HOSE BIBB
	HW	HOT WATER
	SLV	SLEEVE (WIRE CHASE)



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

REVISIONS	BY

BORDWELL PARK RESTROOM, BLDG REMODEL
CITY OF FOUNTAIN VALLEY
1000 PROVIDENCE AVE. FOUNTAIN VALLEY, CA.

L.M. TAKITA & ASSOCIATES
ARCHITECTURE • PLANNING
17751 Newhope St. Design Core Ste. 212, Fountain Valley, California 92708 • (714) 540-5212

Date 2/14/89
Scale
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Sheet 25 of 26
A-3

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PLAN NO. P-0506

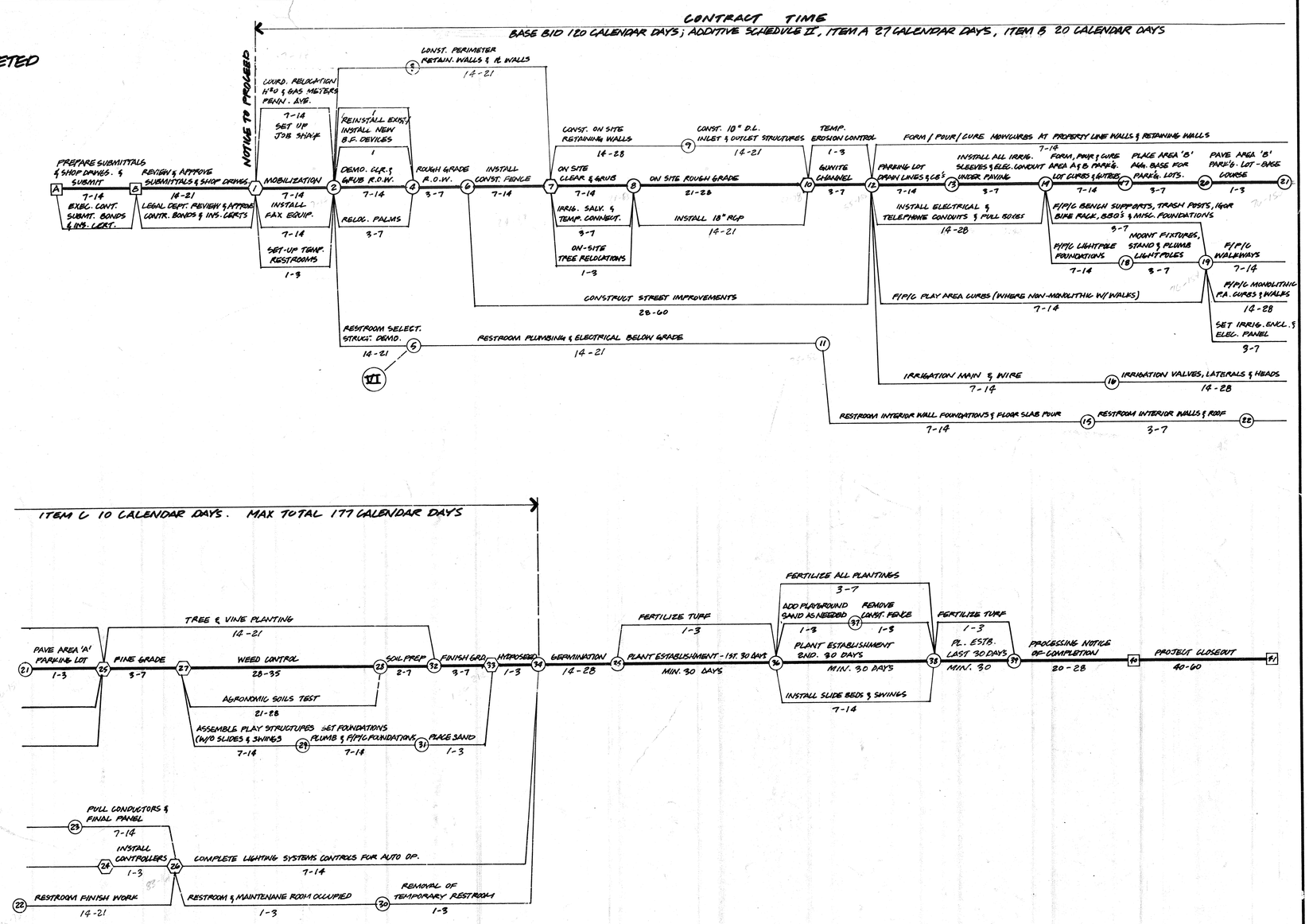
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER BO-59

CONSTRUCTION PROGRESS DATES — SCHEDULED/COMPLETED

- [A] BID AWARDED BY COUNCIL
- [B] PRE-CONSTRUCTION MEETING
- (1) NOTICE TO PROCEED
- 2 COMMENCE ~~LIMITED~~ ON-SITE DEMO, CLEAR & GRUB; R.O.W. CLEAR & GRUB; RESTROOM SELECTIVE DEMO.
- 3 R. DEMO COMPLETE, COMMENCE PERIMETER & RETAINING WALL CONSTRUCTION.
- 4 COMMENCE R.O.W. GRADING.
- 5 RESTROOM DEMO COMPLETE
- 6 R.O.W. ROUGH GRADE COMPLETE
- (7) PERIMETER WALLS COMPLETE, CONSTRUCTION FENCE UP, COMMENCE ON-SITE CLEAR & GRUB & STORM DRAIN CONSTRUCTION.
- 8 ON-SITE CLEAR & GRUB COMPLETE, COMMENCE ON-SITE ROUGH GRADING.
- 9 RETAINING WALLS COMPLETE; 18" DRAINLINE UNDERWAY.
- (10) ON-SITE ROUGH GRADING & STREET IMPROVEMENTS COMPLETE, COMMENCE TEMP. EROSION CONTROL, ROUGH GRADING COMPLETE & ACCEPTED, 18" DRAINLINE COMPLETE & ACCEPTED.
- 11 ALL RESTROOM UNDERGROUND PLUMBING & ELECTRICAL & READY FOR FLOOR SLAB POUR.
- 12 ALL OFF-SITE IMPROVEMENTS COMPLETE, ALL ON-SITE ROUGH GRADING & EROSION CONTROL COMPLETE.
- 13 ALL DRAINLINES & CATCH BASINS INSTALLED.
- 14 ALL UNDERGROUND LINES, SLEEVES, CONDUIT BENEATH PAVEMENT INSTALLED; READY TO COMMENCE PAVING WORK.
- 15 RESTROOM FLOORSLABS & FOUNDATIONS COMPLETE.
- 16 IRRIGATION MAINLINE PRESSURE TEST.
- 17 ALL PARKING LOT CURBS & GUTTERS INSTALLED READY FOR PLACEMENT OF AG. BASE.
- 18 LIGHT POLE FOUNDATIONS POURED & CURED READY TO STAND POLES.
- 19 LIGHT POLES UP, ALL HANDICAPPED SIGNS, GATES, BOLLARDS & REMOVABLE POSTS IN AND READY TO COMMENCE SIDEWALK POURS.
- 20 COMMENCE A.C. PAVING FOR AREA 'B' LOTS
- 21 AREA 'B' LOTS BASE COURSE ACCEPTED. LOTS OPEN FOR TEMP. PUBLIC USE.
- 22 RESTROOM INTERIOR WALLS & ROOF COMPLETE, STRUCTURE 'WEATHER-TIGHT' READY FOR FINISH WORK.
- 23 ELECTRICAL PANEL & IRRIGATION CONTROLLER & ENCLOSURE SET.
- (24) IRRIGATION LATERALS, VALVES, HEADS IN, READY TO INSTALL CONTROLLER.
- 25 ALL ON-SITE CONCRETE WORK COMPLETE, COMMENCE FINISH GRADING, TREE & VINE PLANTING.
- (26) RESTROOM SUBSTANTIALLY COMPLETE, ELETRICAL ENERGIZED; FACILITY READY FOR USE.
- (27) FINE GRADING TO REESTABLISH FLOWLINES COMPLETE & ACCEPTED.
- 28 WEED CONTROL & SOILS TEST COMPLETE, BEGIN SOIL PREP.
- (29) PLAY STRUCTURE ASSEMBLED, PLUMBED & BRACED, READY FOR MANUFACTURERS INSPECTION PRIOR TO FOUNDATION POUR
- 30 RESTROOM OPENED TO PUBLIC USE
- 31 PLAY EQUIPMENT FOUNDATION POUR ACCEPTED.
- 32 SOIL PREP. COMPLETE, COMMENCE FINISH GRADE.
- 33 FINISH GRADE COMPLETE, COMMENCE HYDROSEED.
- (34) HYDROSEED COMPLETE, PROJECT READY FOR SUBSTANTIAL COMPLETION INSPECTION.
- 35 GERMINATION PERIOD COMPLETE, BEGIN 90 DAY PLANT ESTABLISHMENT PERIOD.
- 36 PRIOR TO LAST 30 DAYS OF PLANT ESTABLISHMENT, ASSEMBLE PLAY EQUIPMENT.
- 37 ADDITIONAL SAND ADDED PRIOR TO FENCE REMOVAL
- 38 CONSTRUCTION FENCE REMOVED.
- (39) ACCEPTANCE OF MAINTENANCE BY CITY.
- [40] NOTICE OF COMPLETION AUTHORIZED BY COUNCIL
- [41] RETENTION RELEASED, PROJECT FILES CLOSED.

(1) = TRACKING DATE (1) = TARGET DATE [1] = DATE SET BY CITY



EQUIPMENT & FABRICATED MATERIALS

- (I) FAX EQUIPMENT
  TEMP. RESTROOM
  TEMP. OFFICE
- (II) 18" RCP DRAINLINE (*) * †
- (III) BACKFLOW
- (IV) CONTROLLER
  LIGHT POLES (TYPE I) (*) †
  LIGHT FIXTURES
  TRASH POSTS *
  PICNIC TABLES
  BBQ'S
  BENCHES
  BOLLARDS
  BARRIER POSTS *
  HANDICAPPED SIGNS *
- (V) PLAY EQUIPMENT †
- (VI) METAL DOORS & DOOR FRAMES (*) *
  METAL ROOFING & SKYLIGHTS (*)

(*) = LONG LEAD ITEMS
* = FABRICATED ITEM
† = SHOP DRWG. REQUIRED

BORDWELL PARK CONSTRUCTION SCHEDULE

CITY OF RIVERSIDE
BORDWELL PARK
CONSTRUCTION SCHEDULE

city of riverside
park & recreation
department
3900 MAIN ST RIVERSIDE, CALIFORNIA 92522
(714) 787-7223

revisions	by

date	
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SHEET: 26 of 26
DWG. NO. S-1

PLAN NO. P-0506