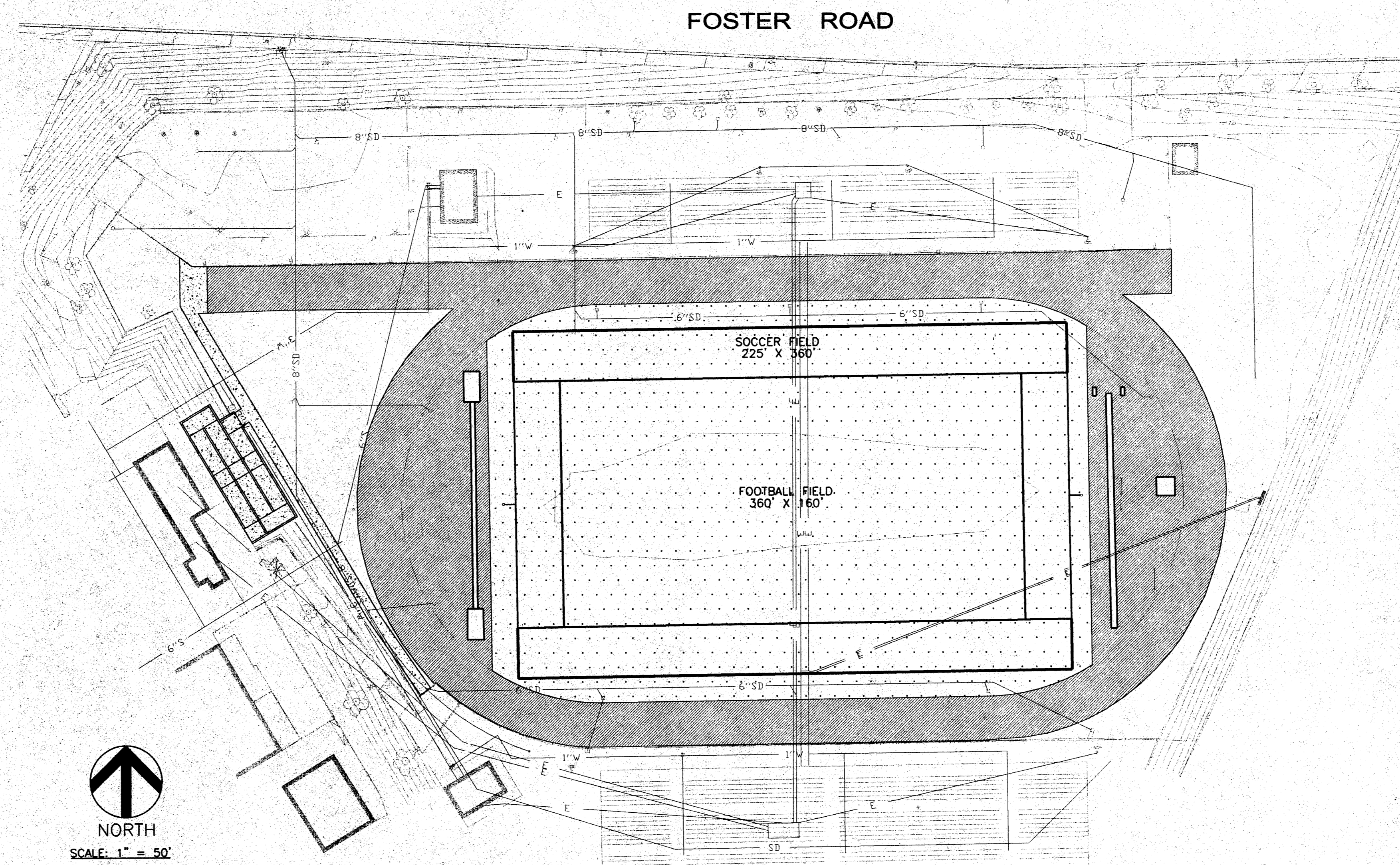


# CONSTRUCTION PLANS FOR THE NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT LA MIRADA STADIUM IMPROVEMENTS



### GRADING NOTES:

1. ALL WORK SHALL CONFORM TO THE STATE CONSTRUCTION SAFETY ORDERS.
2. NO GRADING SHALL COMMENCE WITHOUT OBTAINING PERMISSION FROM NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT AND NOTIFYING GRADING INSPECTOR 24 HOURS PRIOR TO GRADING.
3. ALL WORK AS SHOWN ON THIS PLAN, SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS, NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT STANDARD PLANS AND/OR CONTRACT DOCUMENTS AND SPECIFICATIONS AND THE LATEST REVISIONS THEREOF.
4. ALL WORK SHOWN ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF APPENDIX CHAPTER 33 OF THE UNIFORM BUILDING CODE, THE EXCAVATION AND GRADING CODE OF THE NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT AND ANY SPECIAL REQUIREMENTS OF THE PERMIT.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA, WHETHER SHOWN OR NOT SHOWN.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOIL ENGINEER'S REQUIREMENTS AND RECOMMENDATIONS.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND VERIFY THE TRUE LOCATION OF UNDERGROUND UTILITY PIPES AND/OR STRUCTURES PRIOR TO THE START OF CONSTRUCTION AND TO LOCATE AND PROTECT UTILITY LINES AND/OR STRUCTURES WHETHER SHOWN OR NOT SHOWN. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES AND/OR SUBSTRUCTURES CONCERNED BEFORE STARTING WORK.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION ON THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FOR ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
9. ALL IMPROVEMENTS TO BE CONSTRUCTED PER STANDARD DETAILS.
10. FIELD DENSITY WILL BE DETERMINED BY THE SAND-CONE METHOD A.S.T.M. D1556-64. IN FINE GRAINED, COHESIVE SOILS FIELD DENSITY MAY BE DETERMINED BY THE DRIVE CYLINDER METHOD, A.S.T.M. D2937-71 PROVIDED NOT LESS THAN 20% OF THE REQUIRED DENSITY TESTS, UNIFORMLY DISTRIBUTED, ARE BY THE SAND-CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE SCHOOL DISTRICT.
11. NOT LESS THAN ONE FIELD DENSITY TESTING WILL BE MADE FOR EACH 2 FEET VERTICAL LIFT OR FILL NOR LESS THAN ONE SUCH TEST FOR EACH 1000 CYD'S OF MATERIAL PLACED.
12. THE ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
13. THE UNDERSIGNED CIVIL ENGINEER VERIFIES THIS GRADING WORK WILL BE SUPERVISED IN ACCORDANCE WITH SECTION 7014 OF THE COUNTY BUILDING CODE.
14. FILL WILL BE COMPACTED TO NOT LESS THAN 90% OF MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557-70T.
15. SUFFICIENT TESTS OF SOIL PROPERTIES, INCLUDING SOIL TYPES AND SHEAR STRENGTHS, SHALL BE MADE DURING GRADING OPERATIONS TO VERIFY COMPLIANCE WITH DESIGN CRITERIA. THE RESULTS OF SUCH TESTS SHALL BE FURNISHED TO THE SCHOOL DISTRICT UPON COMPLETION OF GRADING OPERATIONS, OR WHEN NECESSARY BY FIELD CONDITIONS UPON REQUEST OF THE ENGINEER.
16. THE GRADING CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT VERIFYING THAT THE WORK DONE UNDER HIS DIRECTION WAS PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND REQUIREMENTS OF CHAPTER 70 OF THE COUNTY BUILDING CODE OR DESCRIBING ALL VARIANCES FROM THE APPROVED PLANS AND REQUIREMENTS OF THE CODE.

### BENCHMARK INFORMATION

TOP OF GRATE ELEV=216.57'  
PER PLOT & GRADING PLAN #C1  
JUNE, 1972

### SHEET INDEX

SHT. NO.	DESCRIPTION
C-1	TITLE SHEET
C-2	DETAIL SHEET
C-3	GRADING PLAN
C-4	DRAINAGE IMPROVEMENT PLAN
S-1	ADA ACCESS RAMP - PLAN AND ELEVATIONS
S-2	ADA ACCESS RAMP - SECTION AND DETAILS
S-3	ADA ACCESS RAMP - WALL DETAILS
L-1	SYNTHETIC TURF AND TRACK CONSTRUCTION PLANS
L-2	CONSTRUCTION DETAILS
L-3	SYNTHETIC TURF COOLING SYSTEM

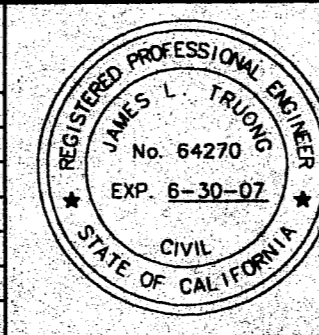
FOR REFERENCE ONLY

### SOILS ENGINEER

ARROYO GEOTECHNICAL  
13200 BROOKS DRIVE, SUITE B  
BALDWIN PARK, CA 91706-2272  
(626) 337-5103 FAX (626) 337-2103



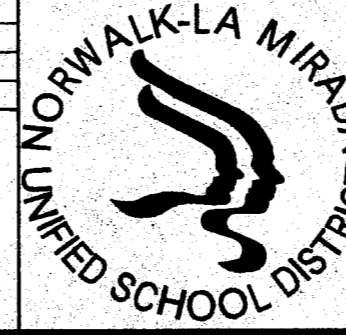
REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN**  
Serving Public Agencies  
27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 fax 949/770-9041

PREPARED UNDER THE SUPERVISION OF  
*[Signature]*  
JAMES L. TRUONG R.C.E. 64270 4/30/04

SCALE:	AS SHOWN	DATE:
DRAWN BY:	J.A., S.M., C.M., J.T.	APRIL 2004
DESIGNED BY:	J.T.	APRIL 2004
CHECKED BY:	K.T.	APRIL 2004

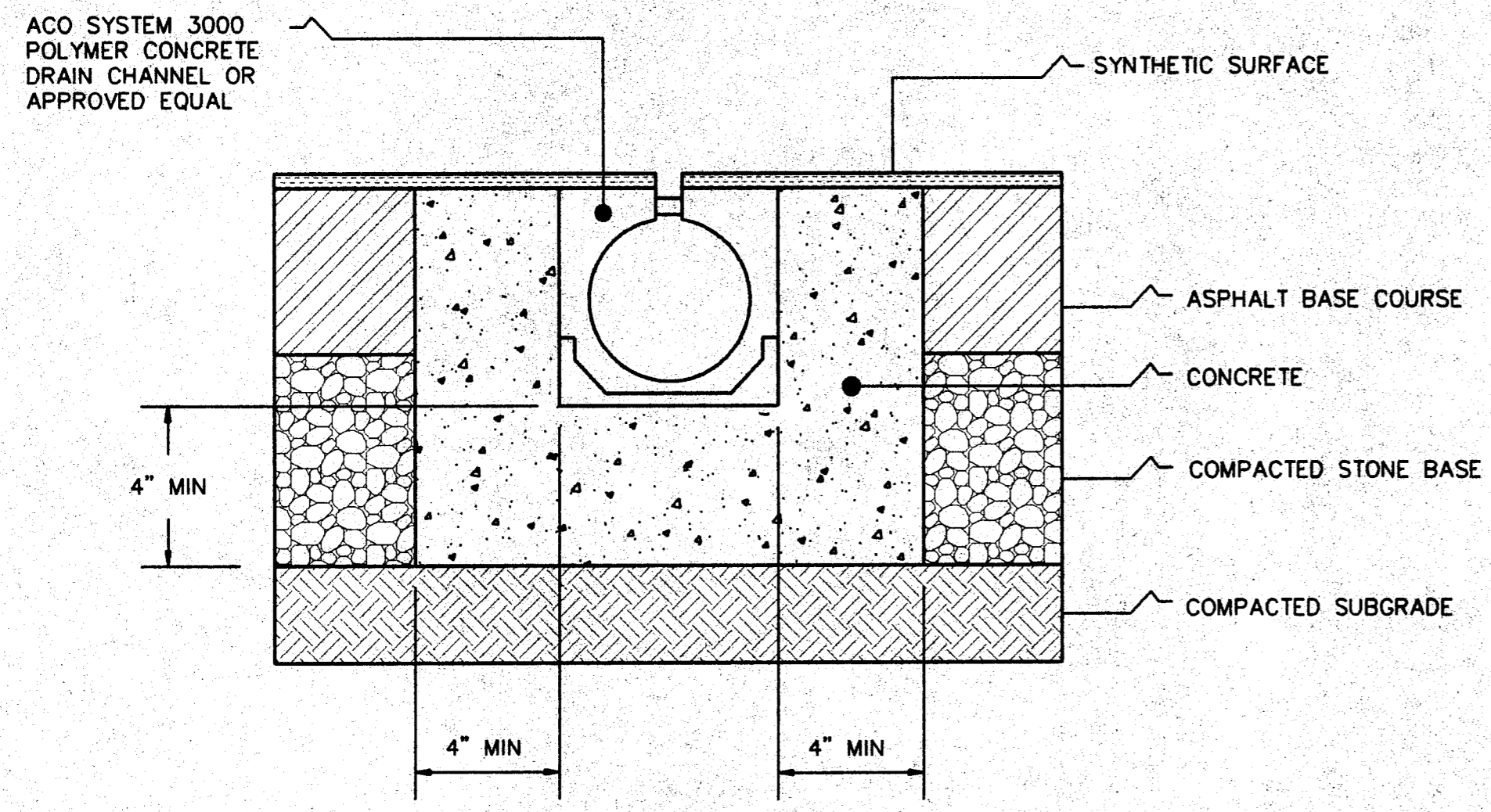


**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
FACILITIES SERVICES DIVISION  
12820 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650

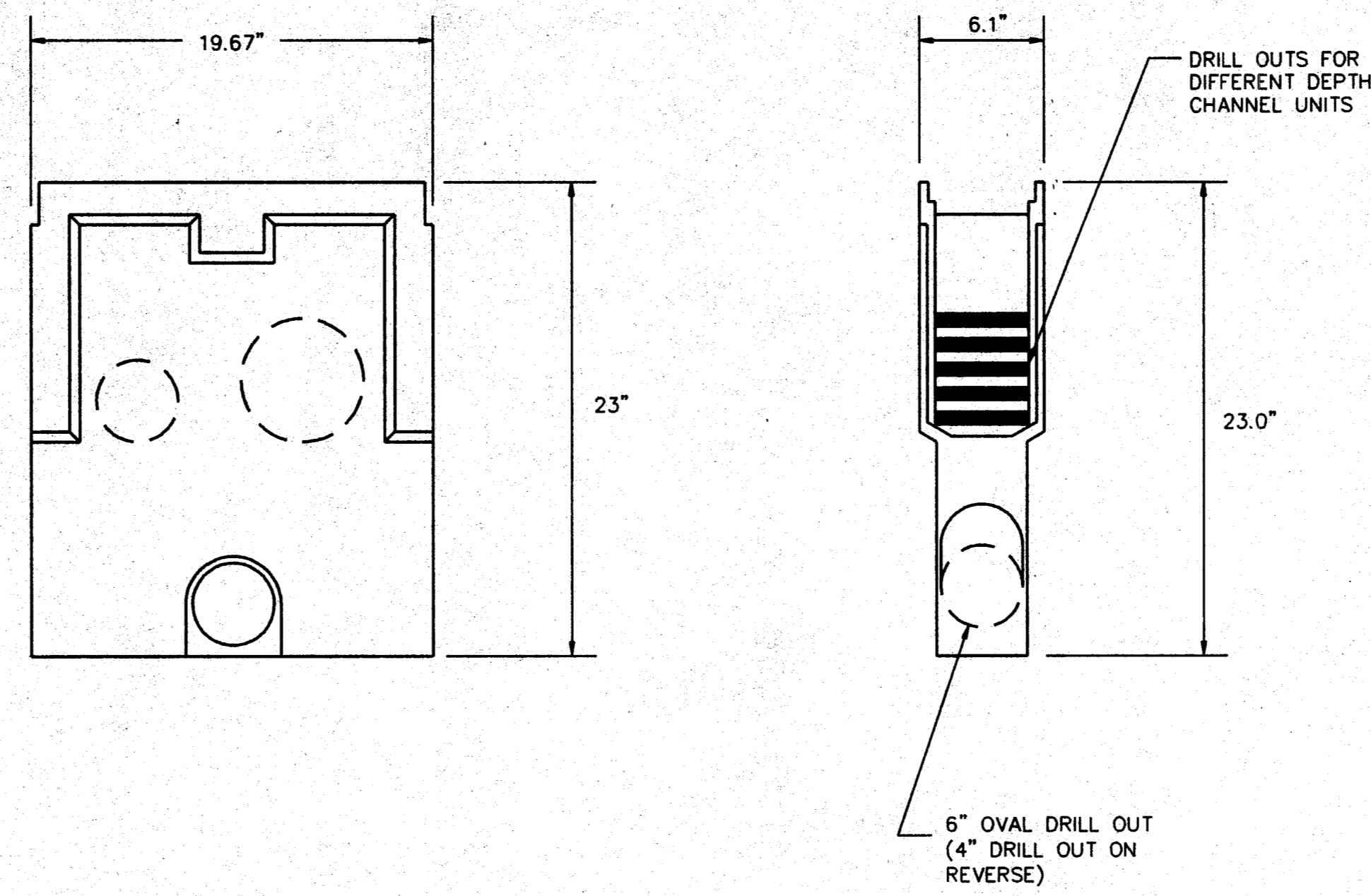
APPROVED  
*[Signature]*  
LES LEHRY  
DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS  
5/3/04

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
LA MIRADA STADIUM  
TITLE SHEET

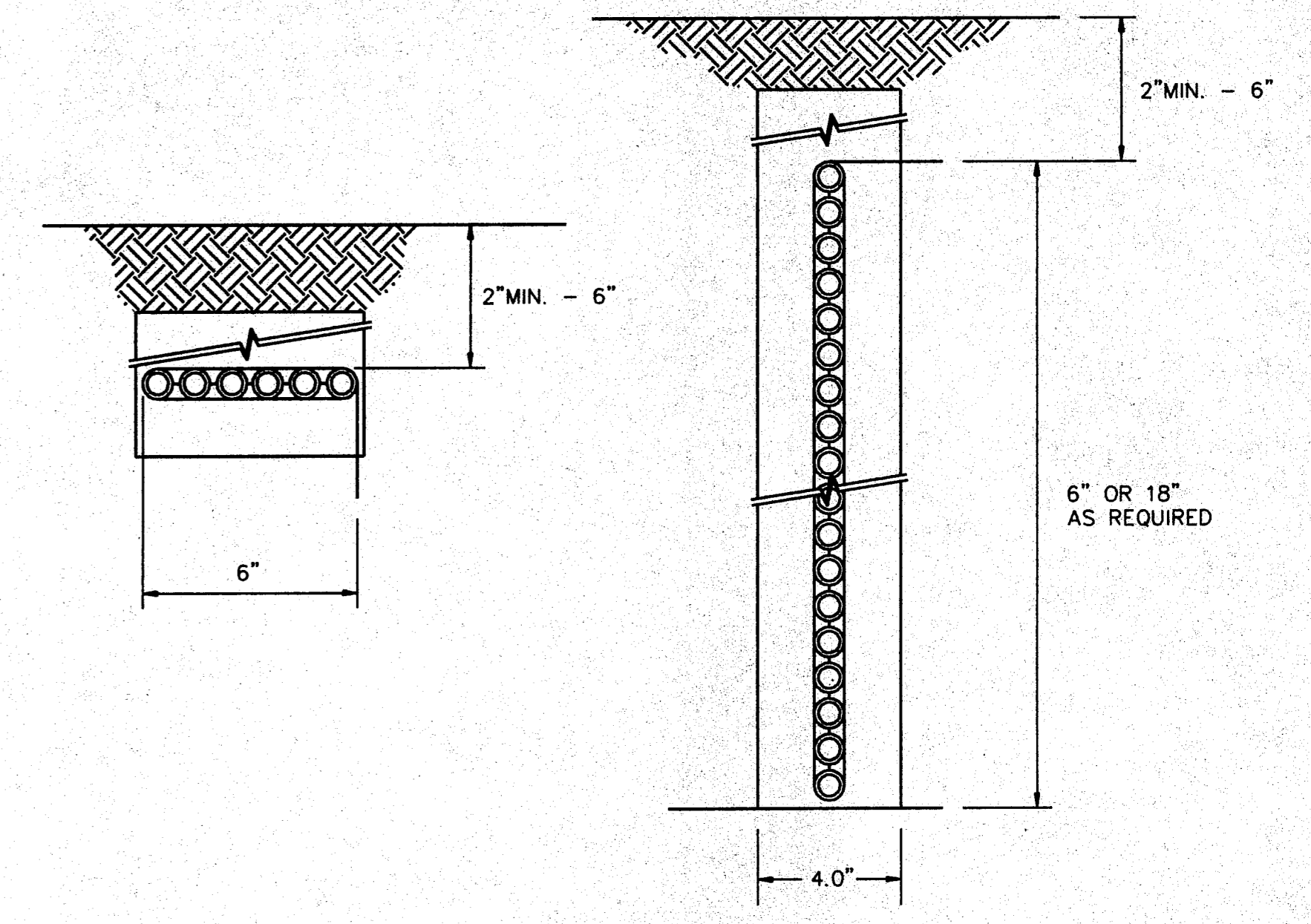
SHEET
C-1
OF 10
DWG. NO.



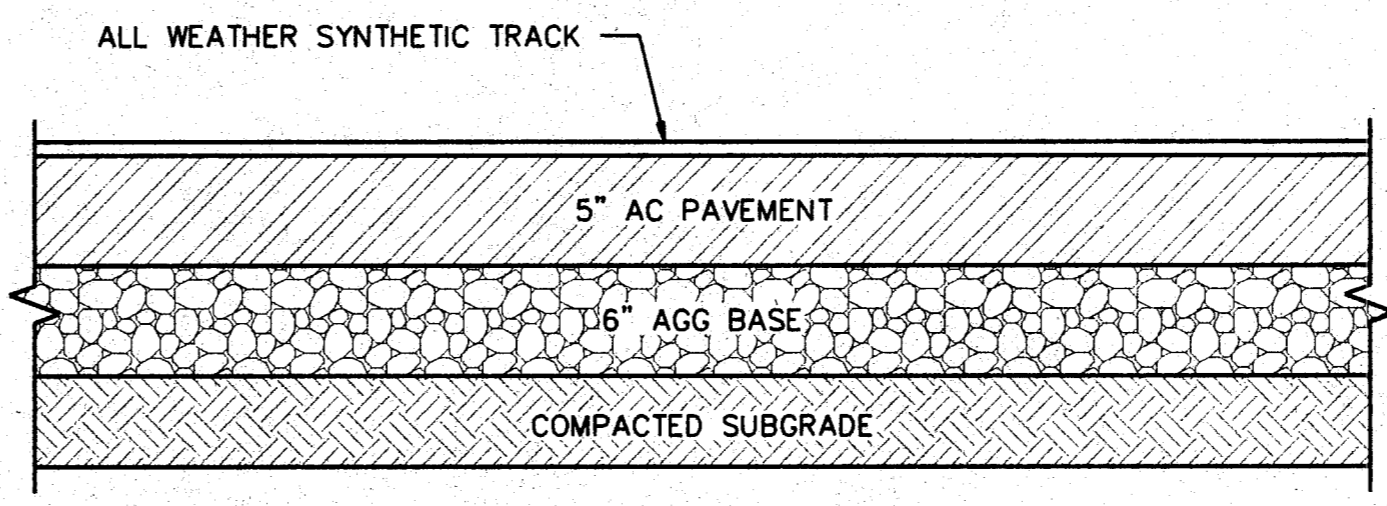
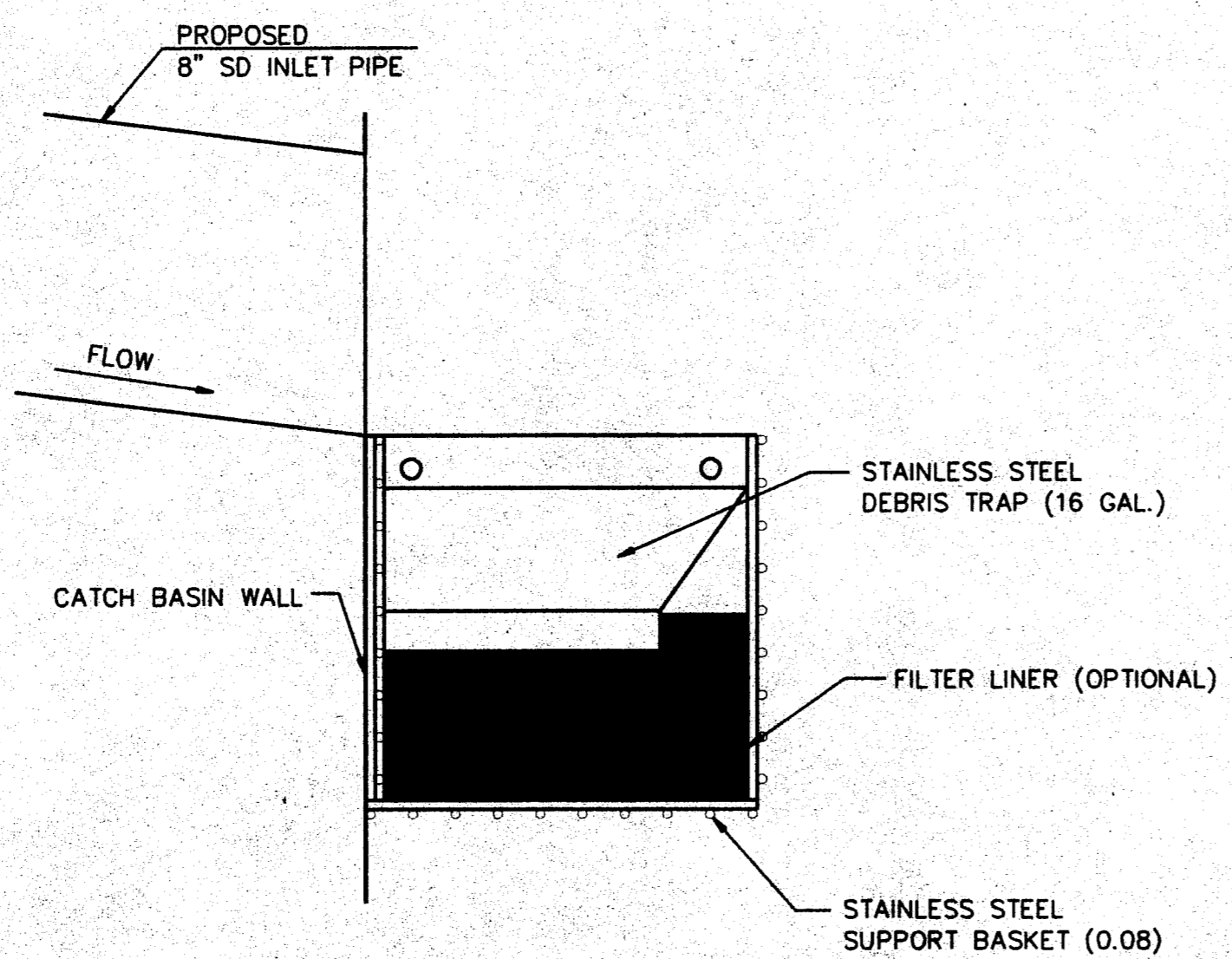
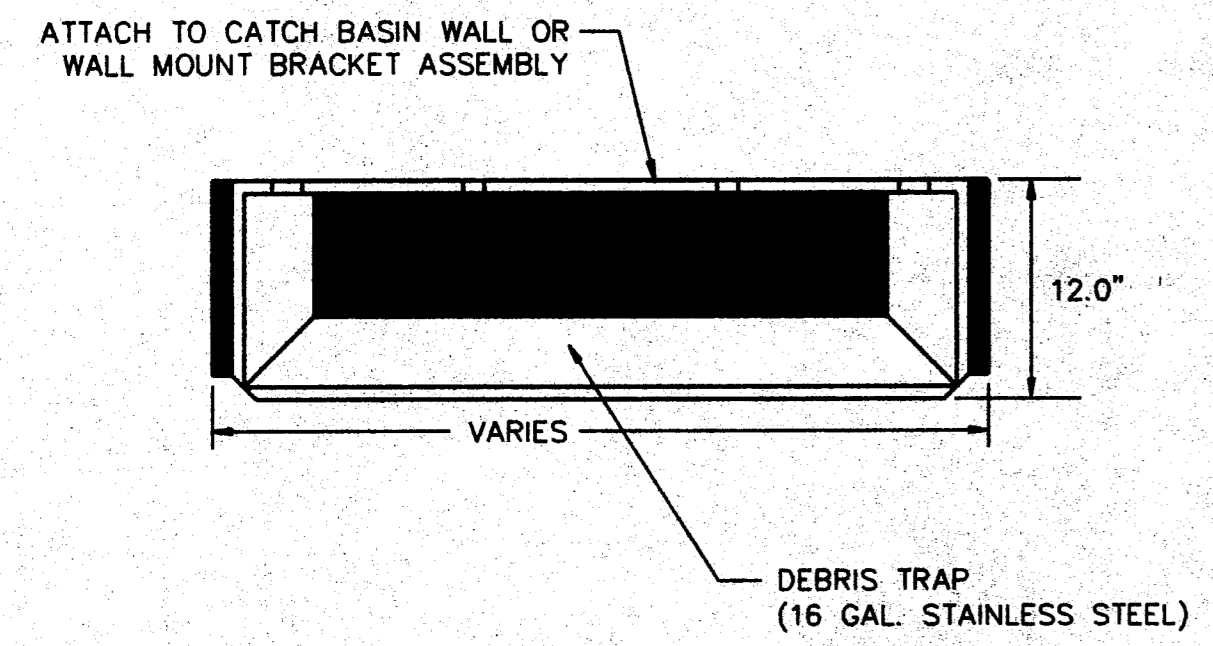
TRENCH DRAIN DETAIL  
NOT TO SCALE



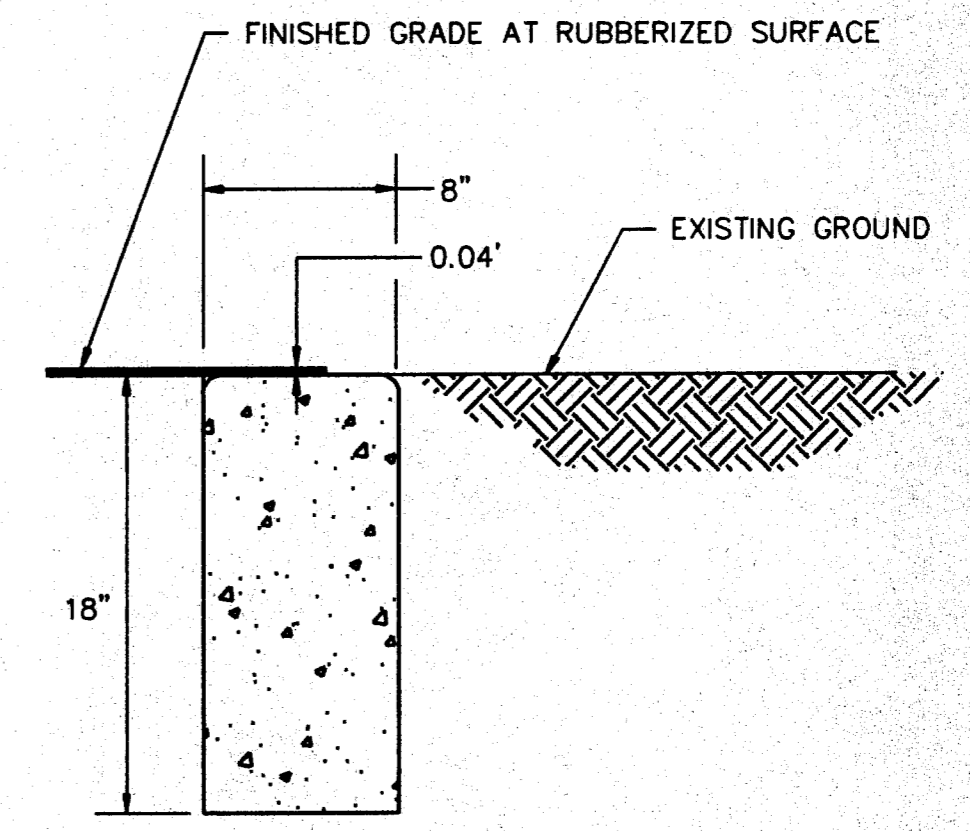
IN-LINE CATCH BASIN DETAIL  
NOT TO SCALE



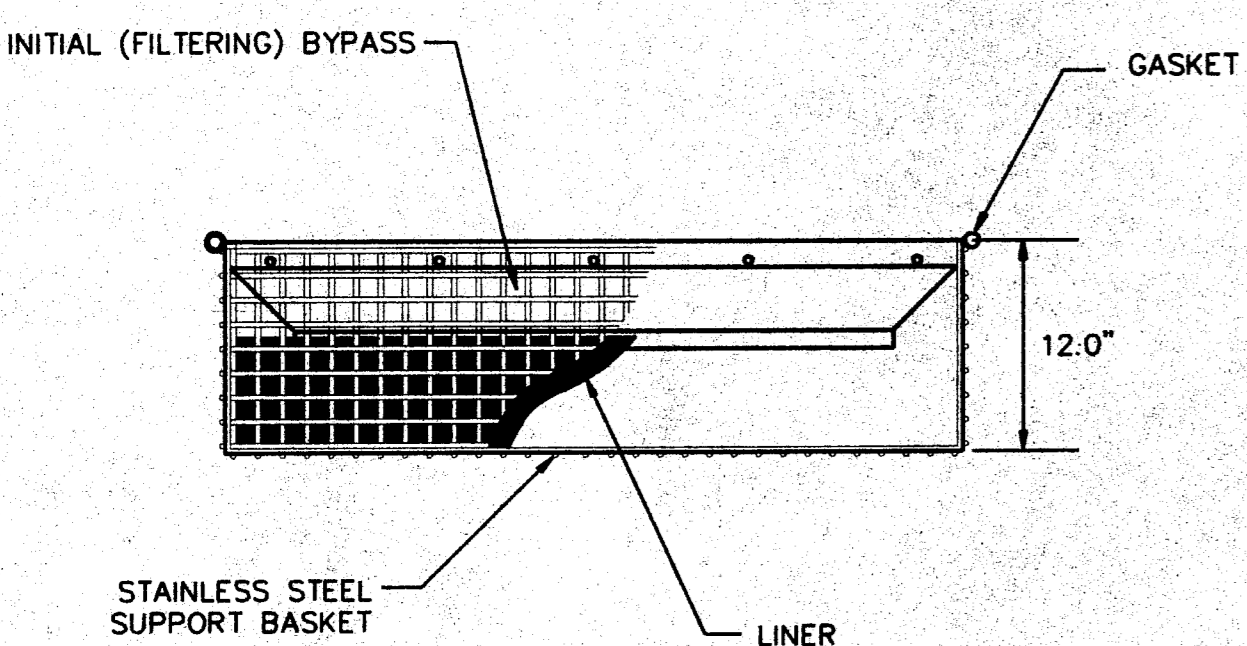
TYPICAL MULTI-FLOW DETAIL  
NOT TO SCALE



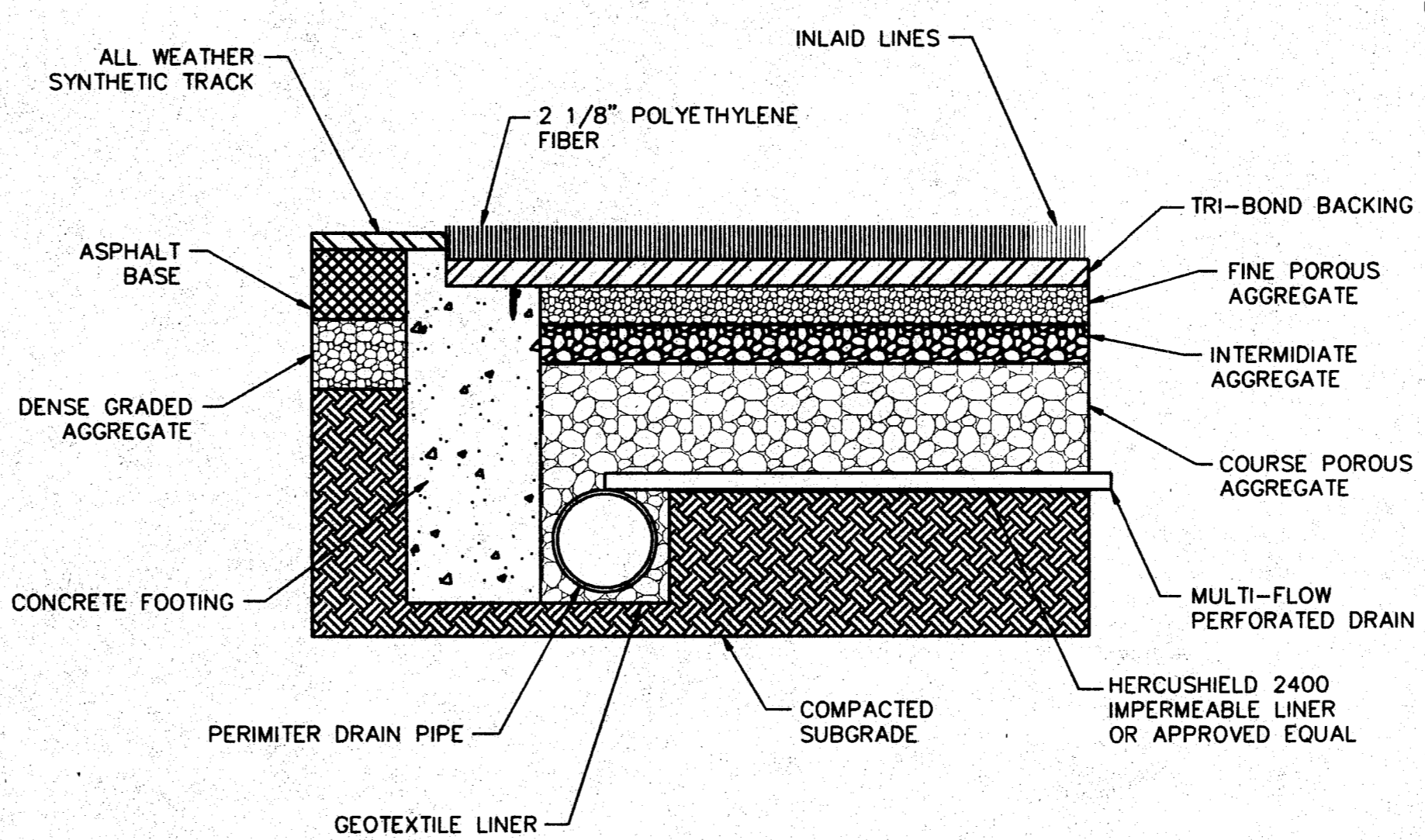
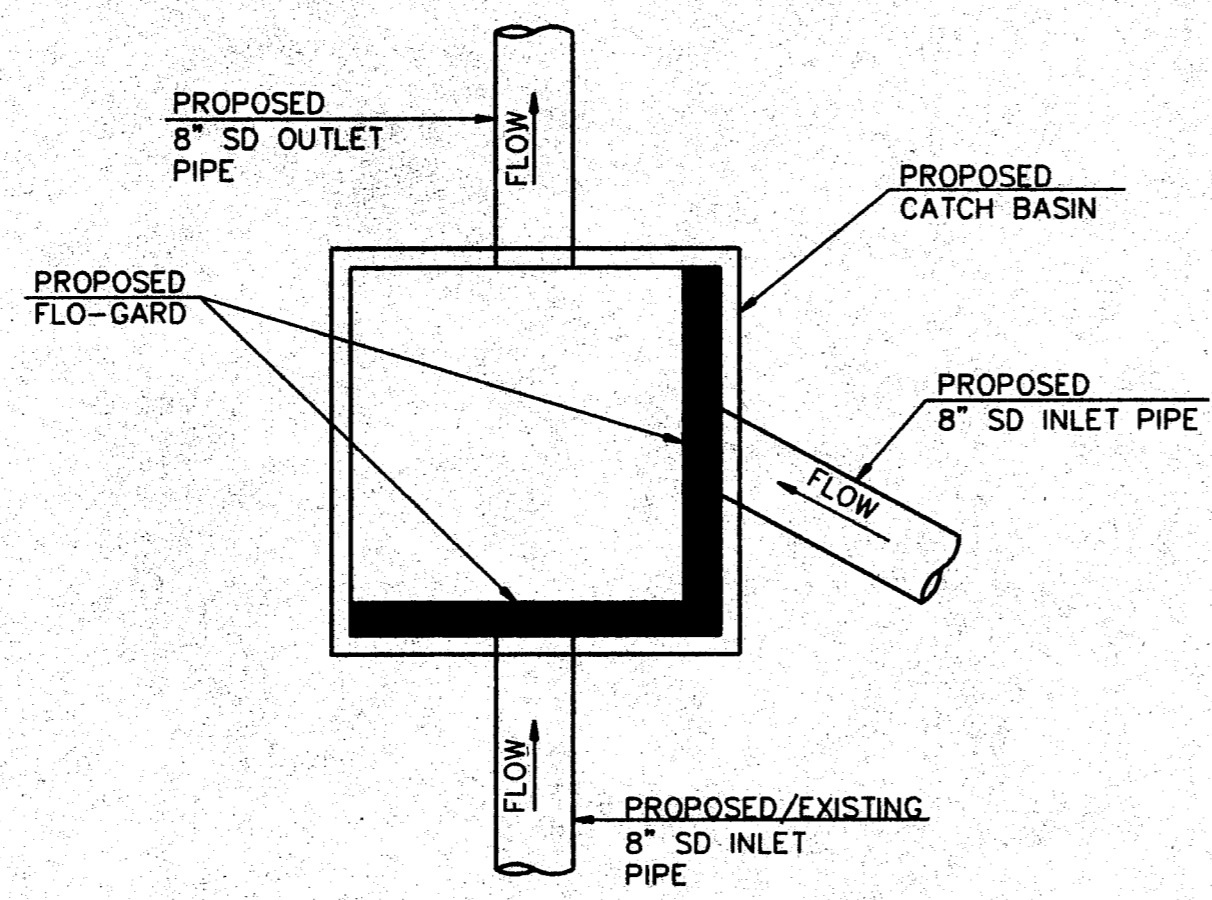
SYNTHETIC TRACK SECTION  
NOT TO SCALE



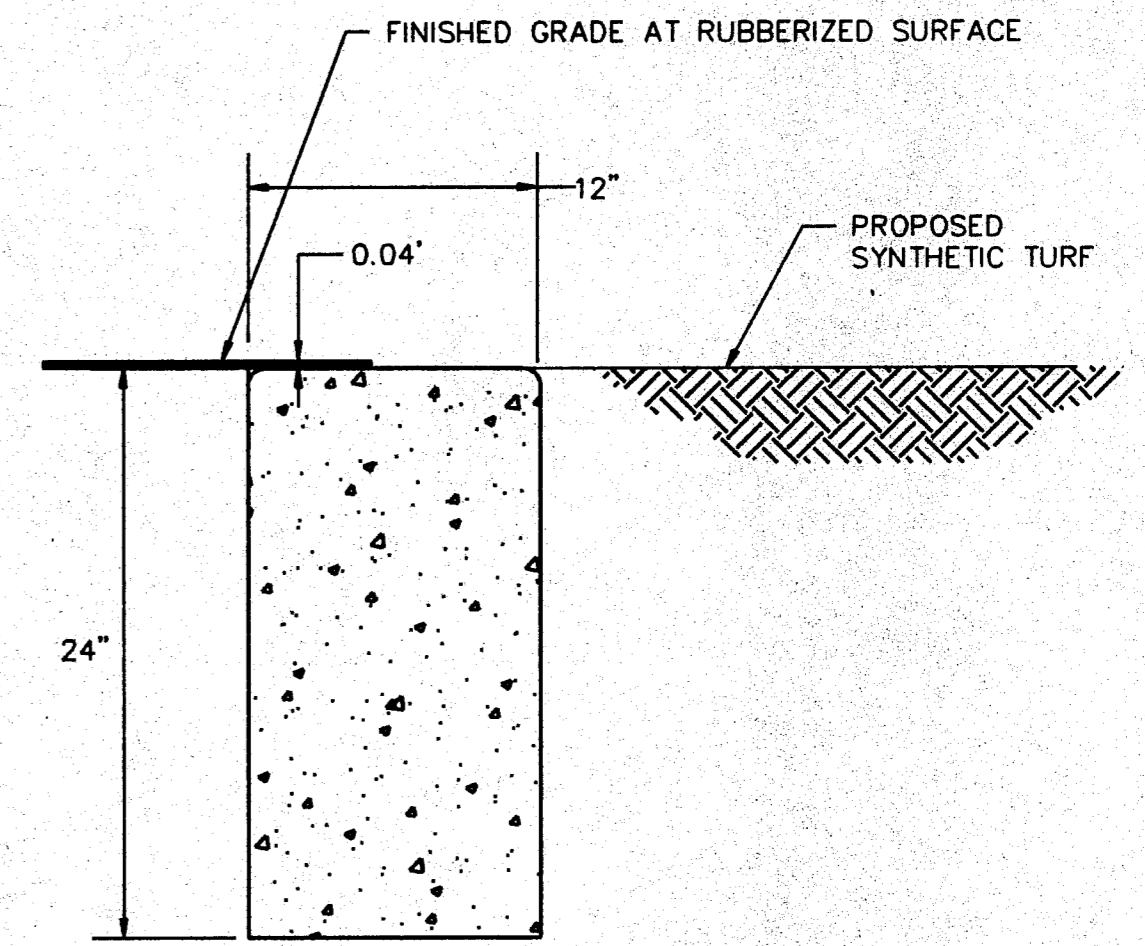
8" x 18" CONCRETE CURB DETAIL  
NOT TO SCALE



FLO-GARD DETAIL  
NOT TO SCALE



SPRINTURF SYSTEM SECTION  
NOT TO SCALE



12" x 24" CONCRETE CURB DETAIL  
NOT TO SCALE

UNDERGROUND SERVICE ALERT  
CALL BEFORE YOU DIG  
CALL TOLL FREE  
1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER  
JAMES L. TRUONG  
No. 64270  
EXP. 6-30-02  
CIVIL  
STATE OF CALIFORNIA

WILLDAN  
Serving Public Agencies  
27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 Fax 949/770-9041  
PREPARED UNDER THE SUPERVISION OF  
James L. Truong  
4/30/04

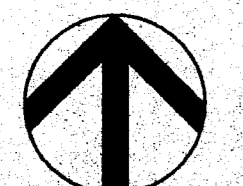
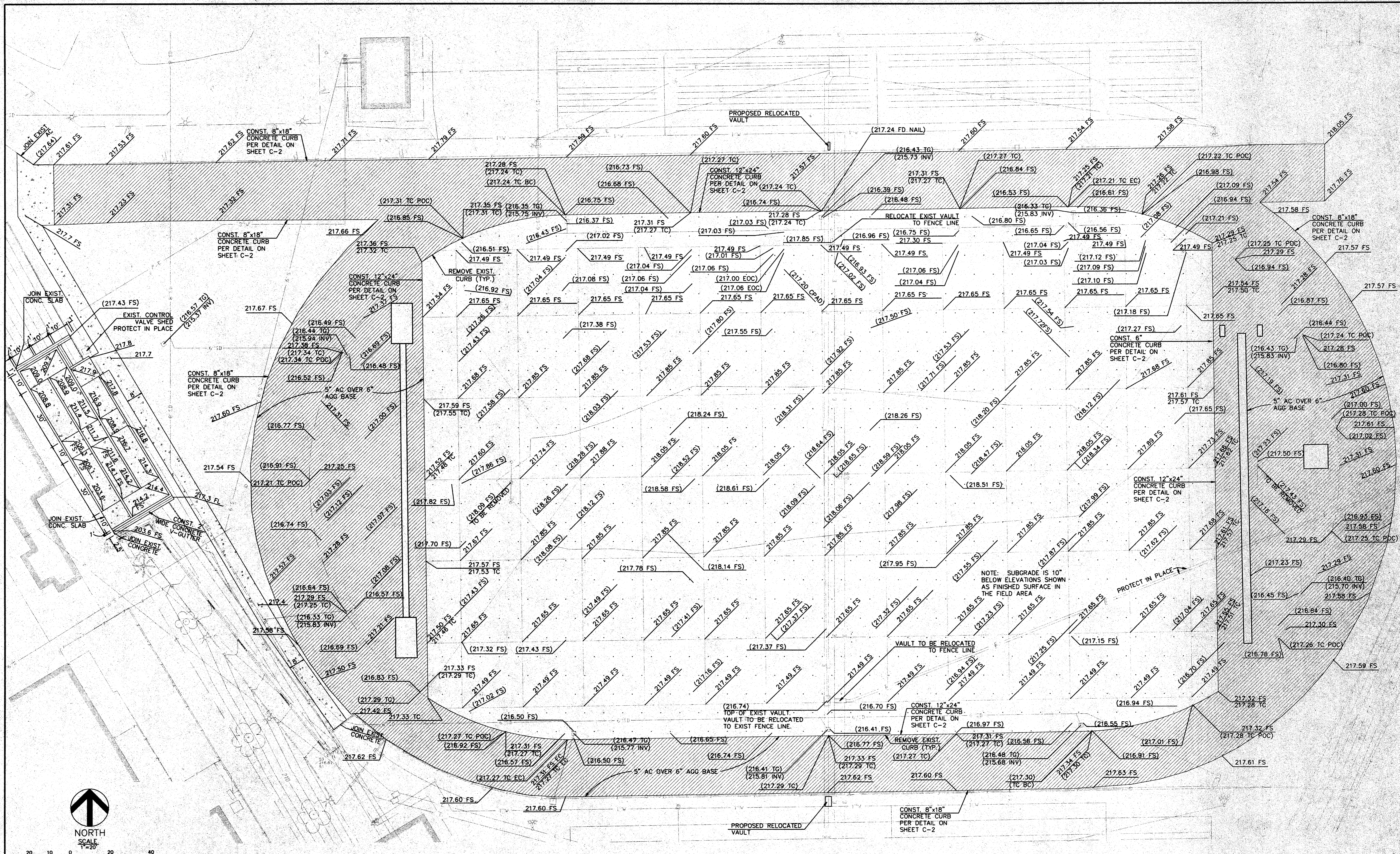
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DRAWN BY: F.A.A., S.M., C.M., J.T.  
DESIGNED BY: J.T.  
CHECKED BY: K.T.  
DATE: APRIL 2004

NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT

NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT FACILITIES SERVICES DIVISION  
12820 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650  
APPROVED: LES LEARY  
DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS

NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT  
LA MIRADA STADIUM  
DETAIL SHEET

SHEET C-2 OF 10 DWG. NO.

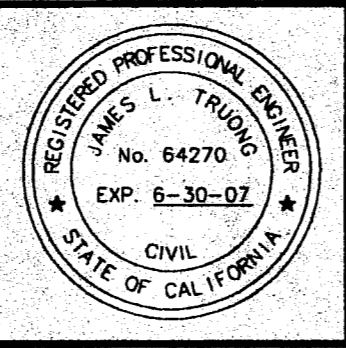


NORTH  
SCALE  
1"=20'

**UNDERGROUND SERVICE ALERT**  
CALL BEFORE YOU DIG  
CALL TOLL FREE  
1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

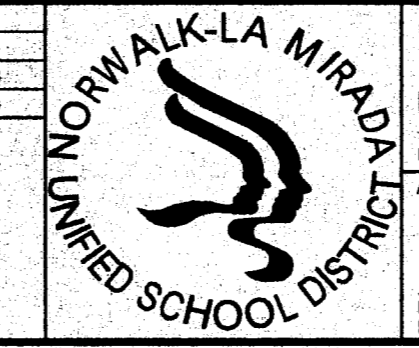
**REVISIONS**

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN**  
Serving Public Agencies  
27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949-470-8840 fax 949-770-9041  
PREPARED UNDER THE SUPERVISION OF  
*James L. Truong*  
JAMES L. TRUONG R.E.T. 64270 4/30/04 DATE

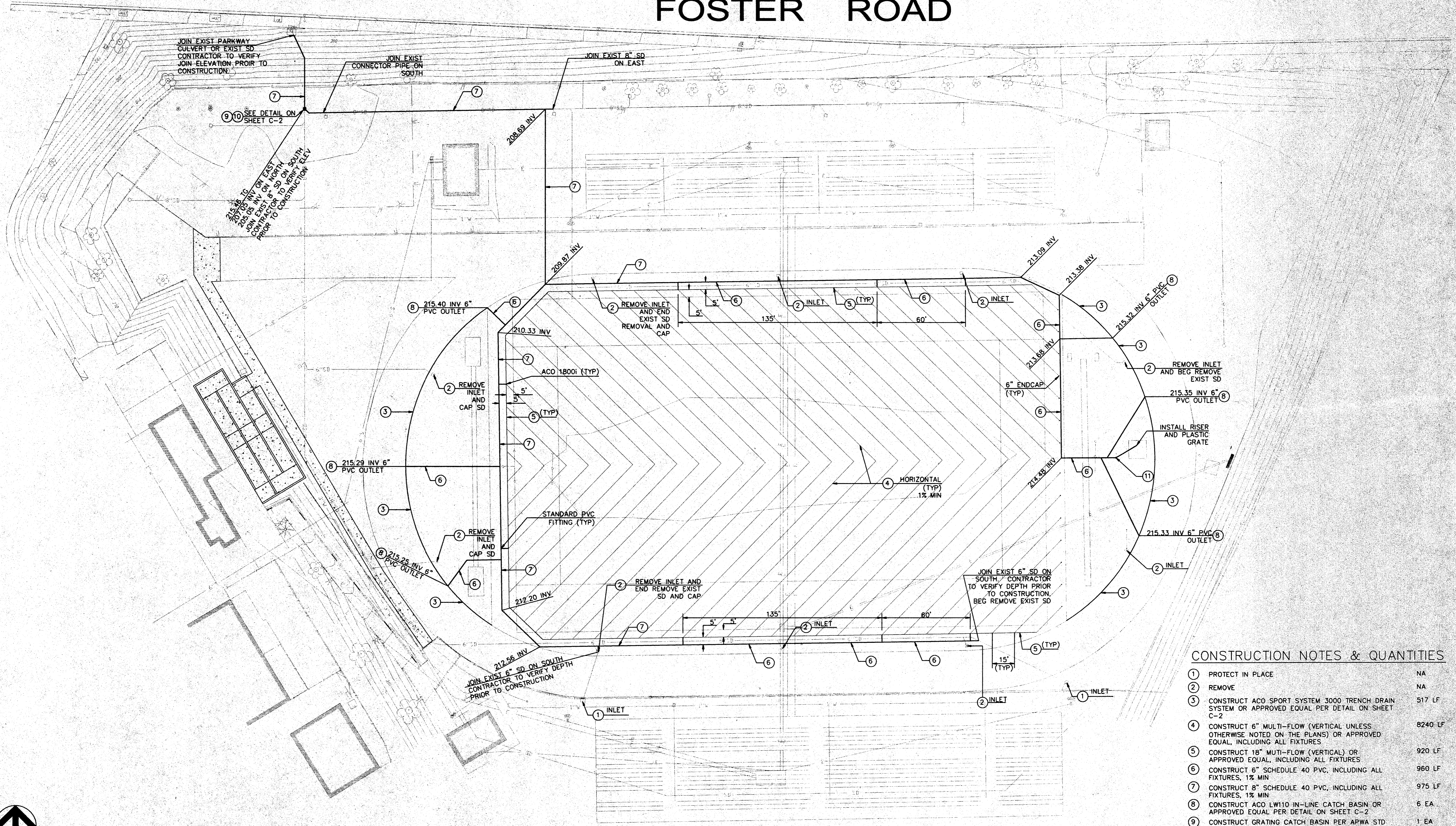
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CHECKED BY: R.T.  
DATE: APRIL 2004  
APRIL 2004  
APRIL 2004



**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
FACILITIES SERVICES DIVISION  
12800 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650  
APPROVED  
LES LEARY  
DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS  
DATE

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
LA MIRADA STADIUM  
**GRADING PLAN**  
SHEET  
C-3  
OF  
10  
DWG. NO.

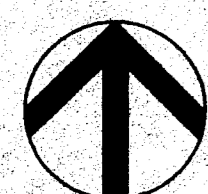
# FOSTER ROAD



## CONSTRUCTION NOTES & QUANTITIES

NO.	DESCRIPTION	QUANTITY
1	PROTECT IN PLACE	NA
2	REMOVE	NA
3	CONSTRUCT ACO SPORT SYSTEM 3000 TRENCH DRAIN SYSTEM OR APPROVED EQUAL PER DETAIL ON SHEET C-2	517 LF
4	CONSTRUCT 6" MULTI-FLOW (VERTICAL UNLESS OTHERWISE NOTED ON THE PLANS) OR APPROVED EQUAL, INCLUDING ALL FIXTURES	8240 LF
5	CONSTRUCT 18" MULTI-FLOW (VERTICAL) OR APPROVED EQUAL, INCLUDING ALL FIXTURES	920 LF
6	CONSTRUCT 6" SCHEDULE 40 PVC, INCLUDING ALL FIXTURES, 1% MIN	960 LF
7	CONSTRUCT 8" SCHEDULE 40 PVC, INCLUDING ALL FIXTURES, 1% MIN	975 LF
8	CONSTRUCT ACO LW110 IN-LINE CATCH BASIN OR APPROVED EQUAL PER DETAIL ON SHEET C-2	6 EA
9	CONSTRUCT GRATING CATCH BASIN PER APWA STD PLAN 304-2	1 EA
10	CONSTRUCT FLOGARD+PLUS OR APPROVED EQUAL PER DETAIL ON SHEET C-2	5 LF
11	CONSTRUCT 6" PVC VALVE AND VALVE CAN	1 EA

NOTE:  
REFER TO MANUFACTURERS SPECIFICATIONS FOR ALL FITTINGS



NORTH

SCALE

1" = 30'

30 15 0 15 30 60

### UNDERGROUND SERVICE ALERT

CALL BEFORE YOU DIG

CALL TOLL FREE

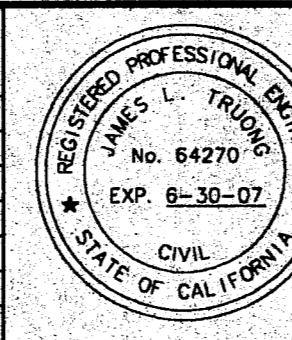
1-800

422-4133

TWO WORKING DAYS BEFORE YOU DIG

### REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



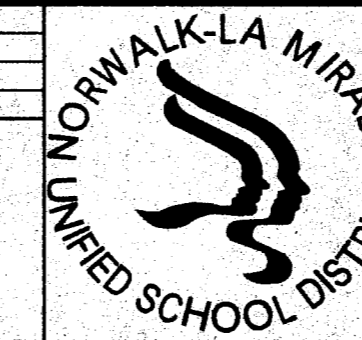
**WILLDAN**  
Serving Public Agencies

27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 fax 949/770-9041

PREPARED UNDER THE SUPERVISION OF  
*James L. Truong*  
JAMES L. TRUONG R.C.E. 64270 4/30/04

SCALE: AS SHOWN  
DRAWN BY: AA, S.M., C.M., J.T.  
DESIGNED BY: J.T.  
CHECKED BY: K.T.

DATE: APRIL 2004  
APRIL 2004



**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
FACILITIES SERVICES DIVISION

12820 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650  
APPROVED: \_\_\_\_\_  
LES LEAHY DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS

NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT

LA MIRADA STADIUM

DRAINAGE IMPROVEMENT PLAN

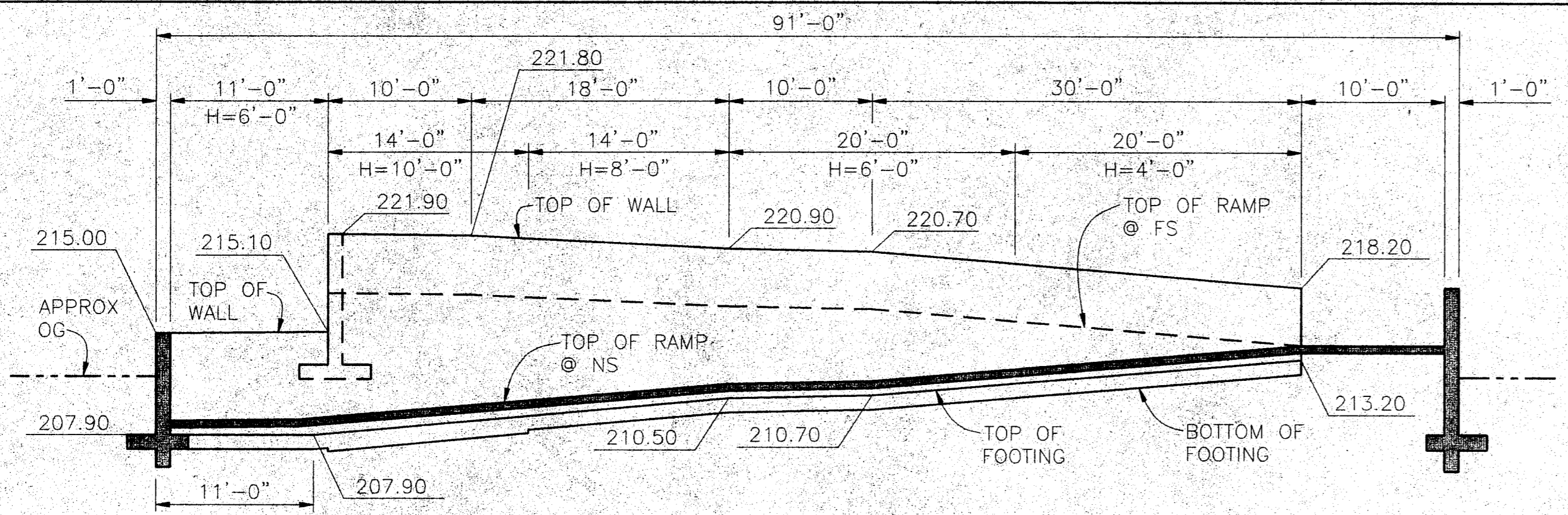
SHEET

C-4

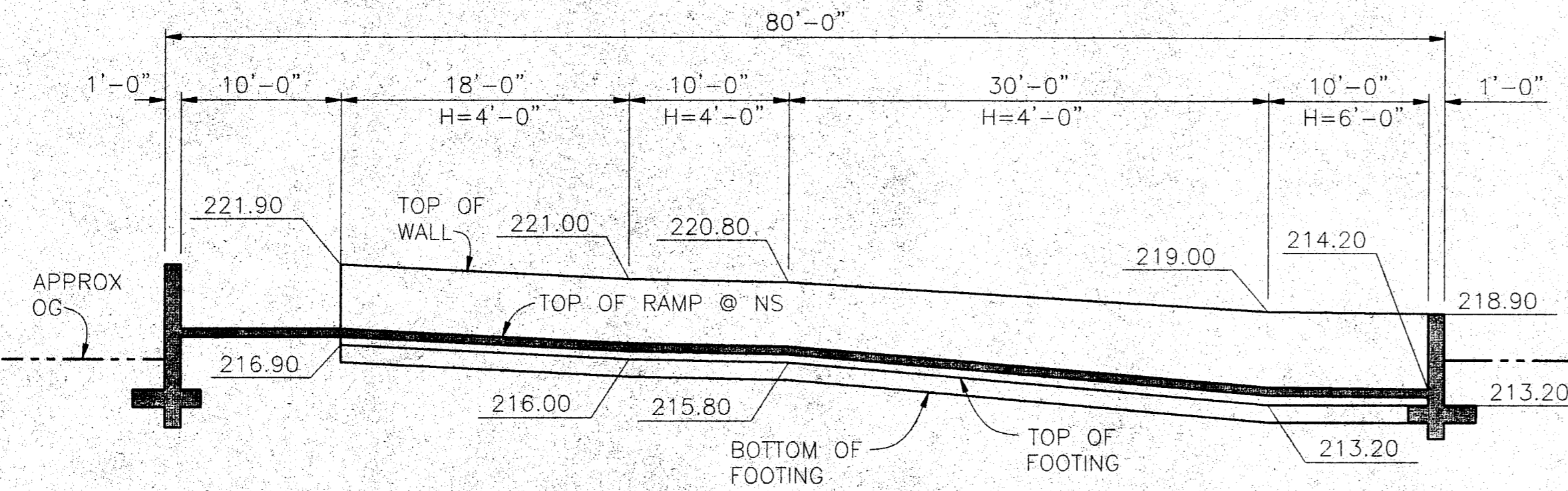
OF

10

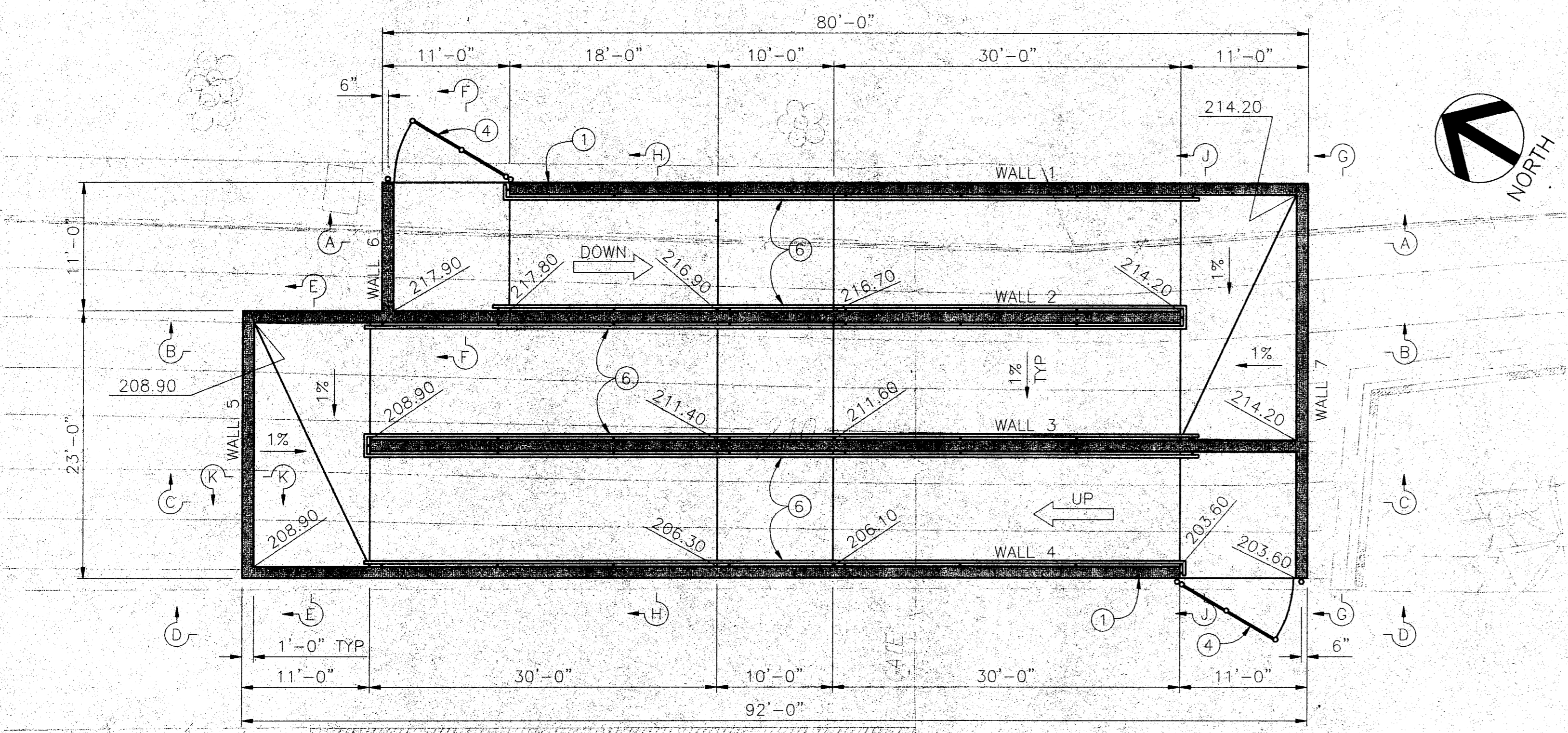
DWG. NO.



**VIEW B-B  
WALL 2 ELEVATION**  
1/8" = 1'-0"

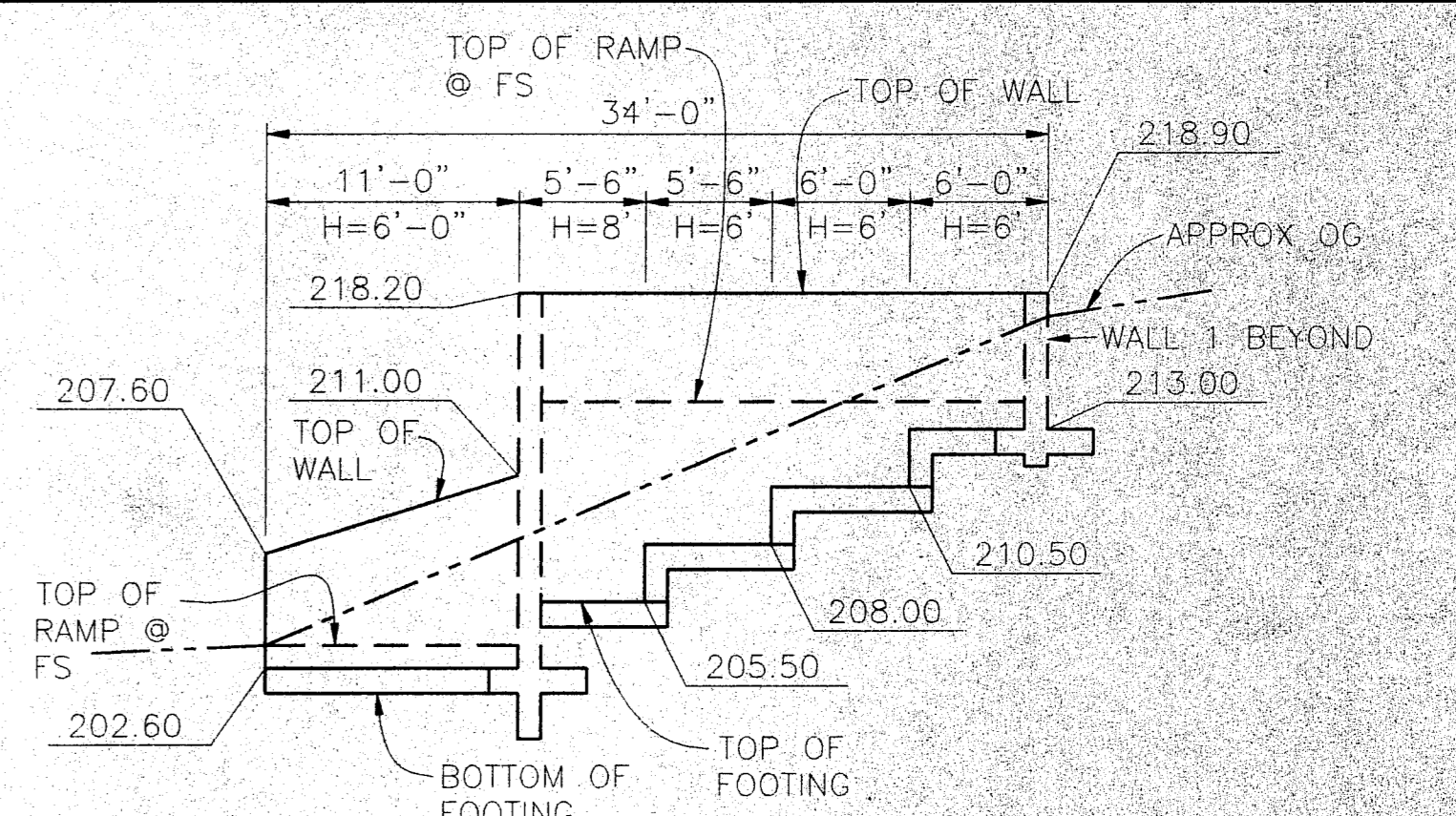


**VIEW A-A  
WALL 1 ELEVATION**  
1/8" = 1'-0"

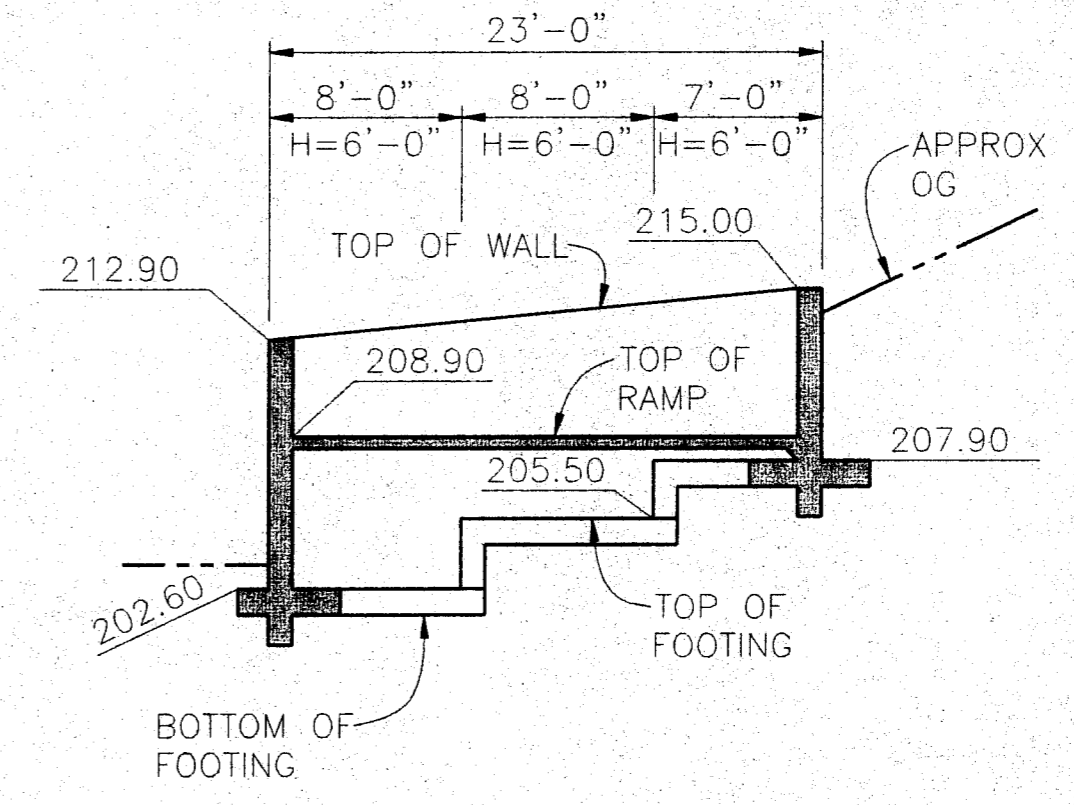


**PLAN**  
1/8" = 1'-0"  
FOR SECTION H-H, J-J & K-K, SEE SHEET 2

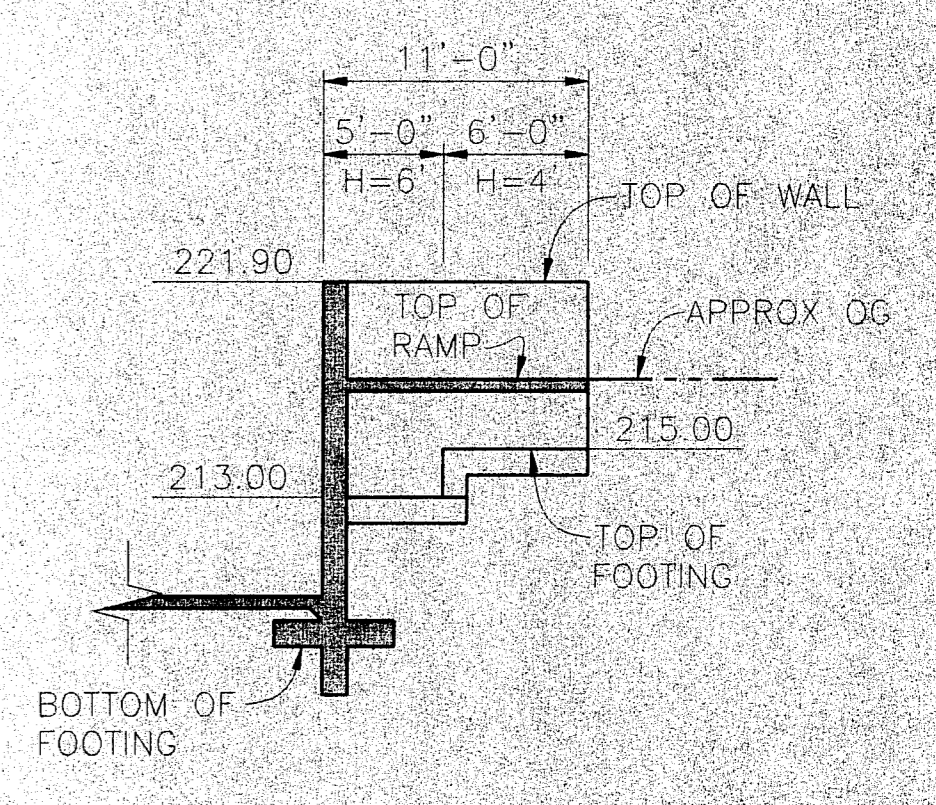
- CONSTRUCTION NOTES:**
- PAINT "LMHS" AND YEAR CONSTRUCTED.
  - ALL CONSTRUCTION SHALL CONFORM TO THE PLANS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION (GREENBOOK), 2003 EDITION, UNLESS OTHERWISE NOTED.
  - 48-HOURS PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR SHALL PROTECT AND RESTORE THE EXISTING UTILITY IMPROVEMENTS AS REQUIRED BY THE "GREENBOOK" OR DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.
  - CONSTRUCT CHAIN LINK GATE PER APWA STD. PLAN 600-1 AND DETAILS HEREON AND ON SHEET S-2.
  - CONSTRUCT CHAIN LINK FENCE ON TOP OF ALL WALLS PER APWA STD. PLAN 600-1.
  - CONSTRUCT HANDRAILS PER DETAILS ON SHEET S-2 AND ADA REQUIREMENTS.
  - CONCRETE FINISH FOR EXPOSED SURFACES SHALL BE CLASS 1, EXCEPT THAT RAMP SURFACE SHALL BE TROWLED SMOOTH AND GIVEN A FINE BROOM FINISH IN A DIRECTION PERPENDICULAR TO THE CENTERLINE OF THE STAIRWAY.
  - ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE ROUNDED OR BEVELED.



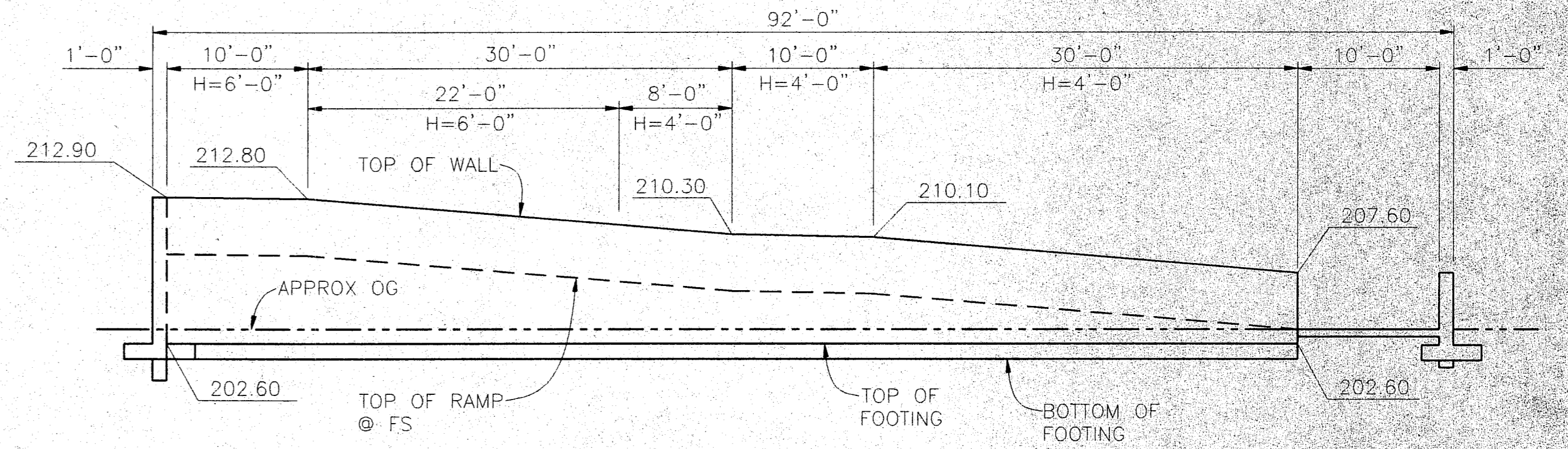
**VIEW G-G  
WALL 7 ELEVATION**  
1/8" = 1'-0"



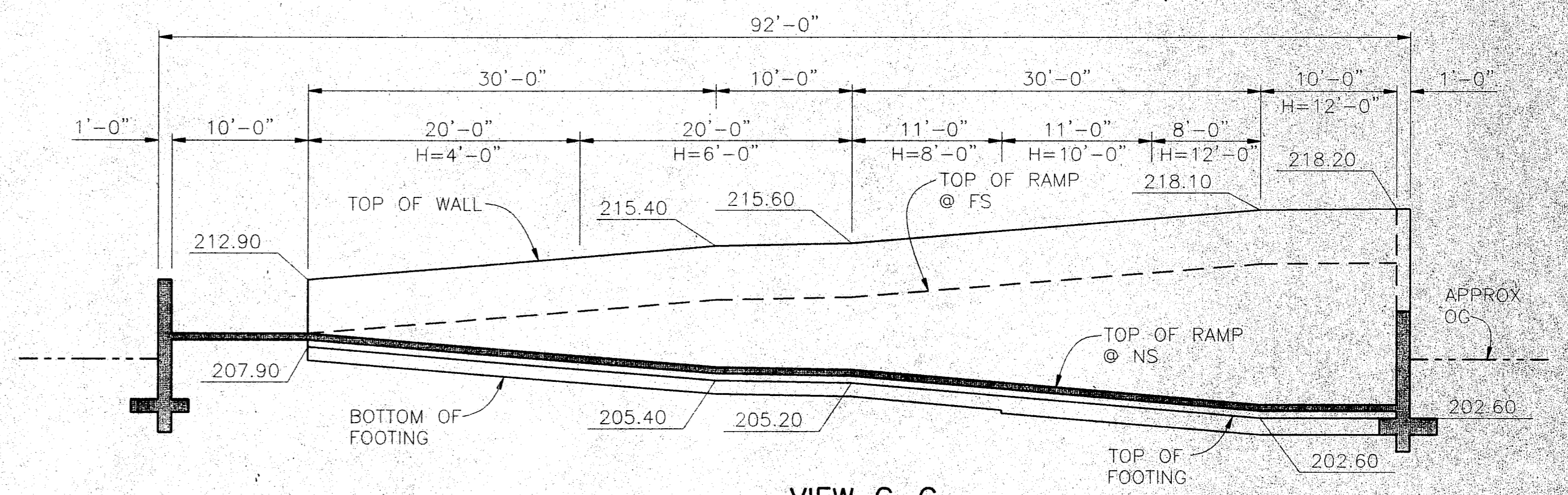
**VIEW E-E  
WALL 5 ELEVATION**  
1/8" = 1'-0"



**VIEW F-F  
WALL 6 ELEVATION**  
1/8" = 1'-0"



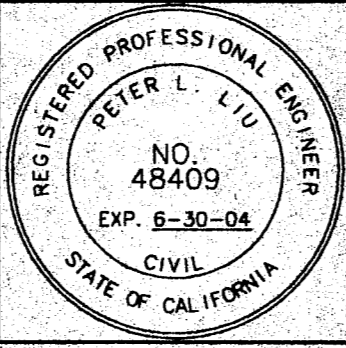
**VIEW D-D  
WALL 4 ELEVATION**  
1/8" = 1'-0"



**VIEW C-C  
WALL 3 ELEVATION**  
1/8" = 1'-0"



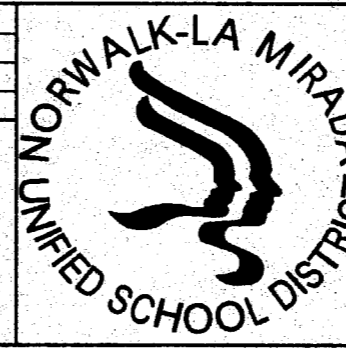
REVISIONS			
NO.	INITIAL	DESCRIPTION	DATE



**WILLDAN**  
27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 fax 949/770-9041

PREPARED UNDER THE SUPERVISION OF  
*Peter L. Liu*  
PETER L. LIU  
R.E.L. 48409  
4/30/04

SCALE:	DATE:
AS SHOWN	APRIL 2004
DRAWN BY: E.G.	APRIL 2004
DESIGNED BY: L.M.	APRIL 2004
CHECKED BY: P.L.	APRIL 2004

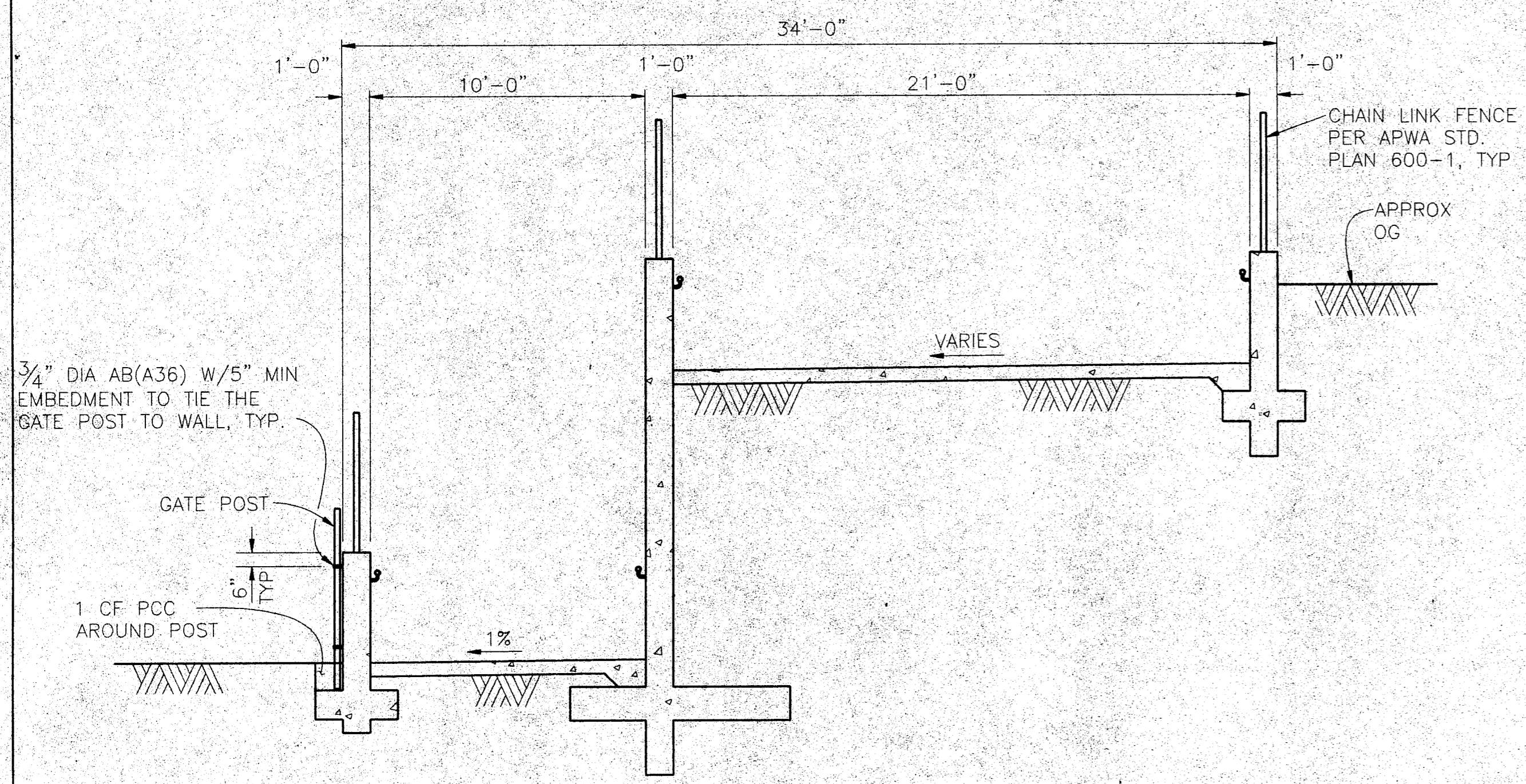


**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
FACILITIES SERVICES DIVISION  
12820 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650

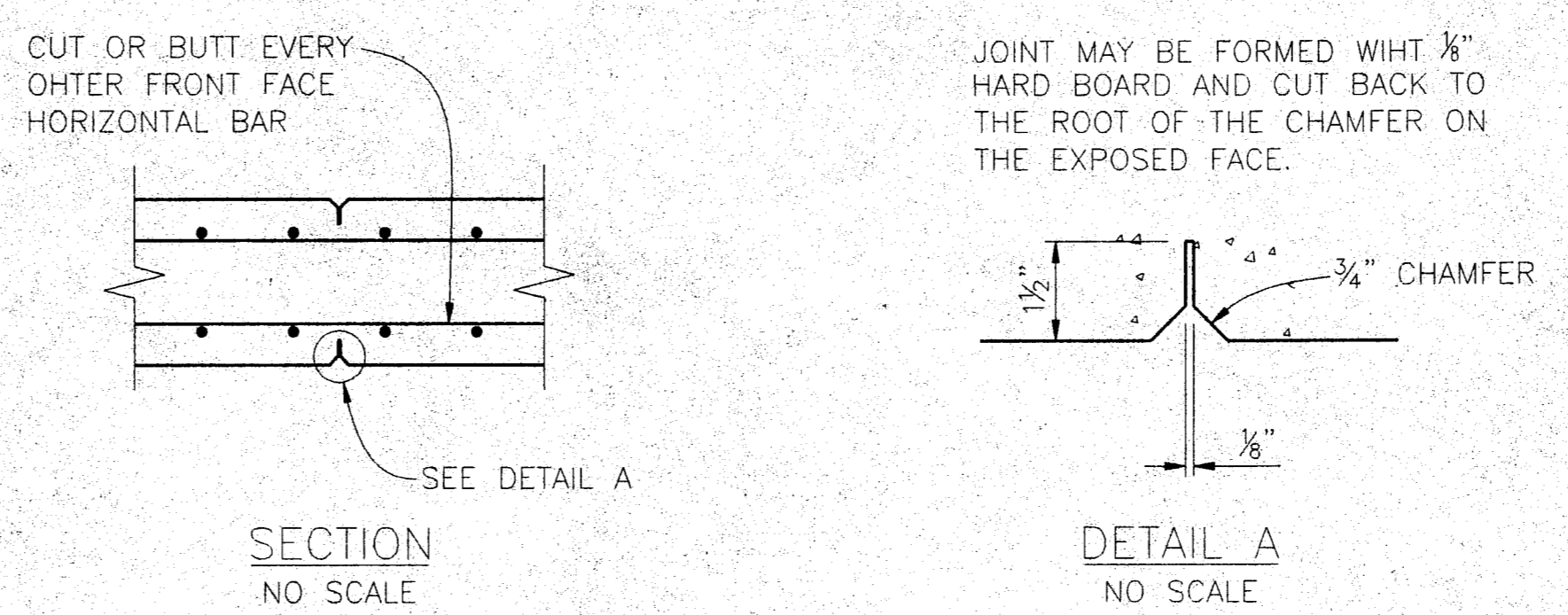
APPROVED: \_\_\_\_\_  
LES LEAHY  
DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
LA MIRADA STADIUM  
ADA ACCESS RAMP-  
PLAN AND ELEVATIONS

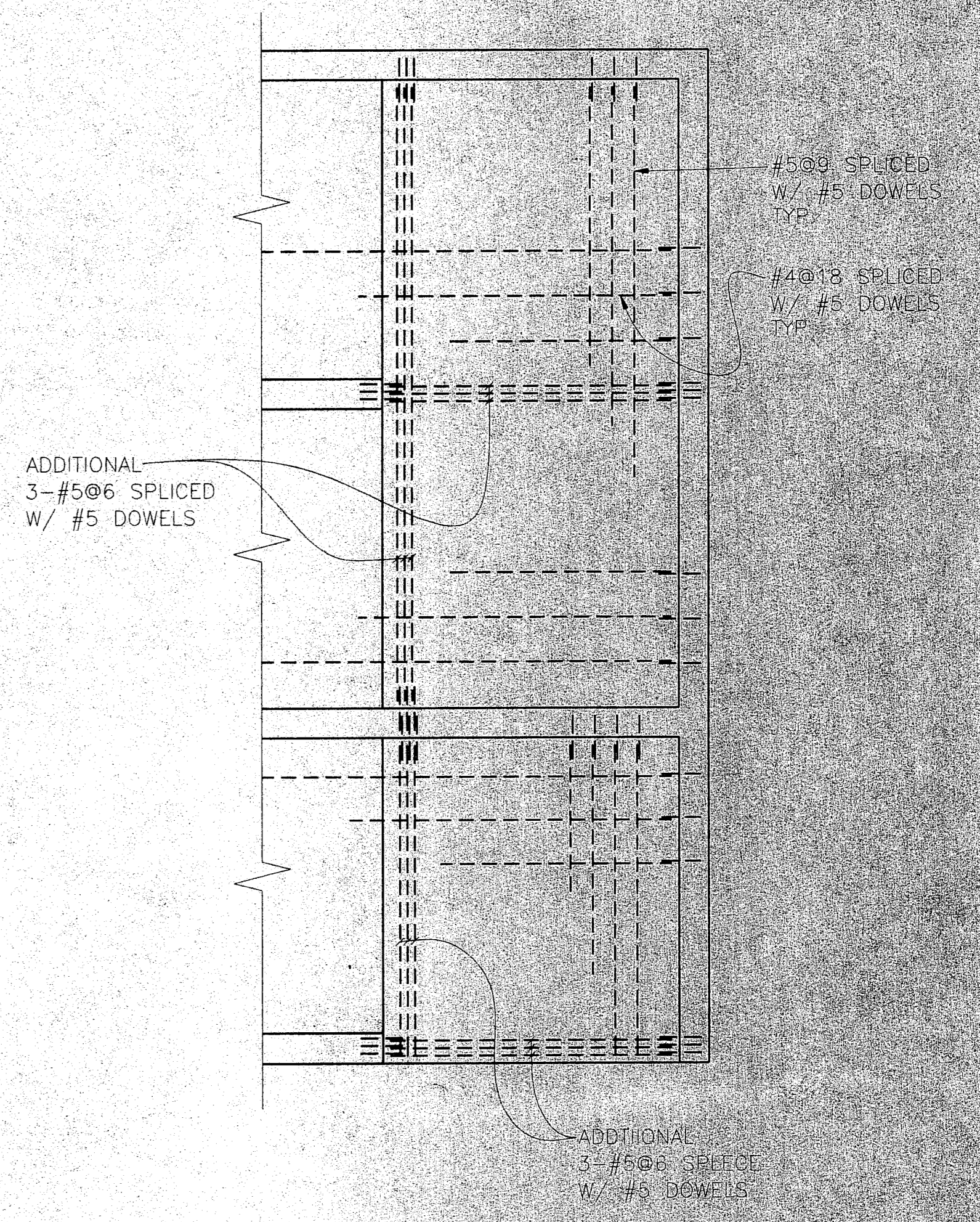
SHEET  
S-1  
OF 10  
DWG. NO.



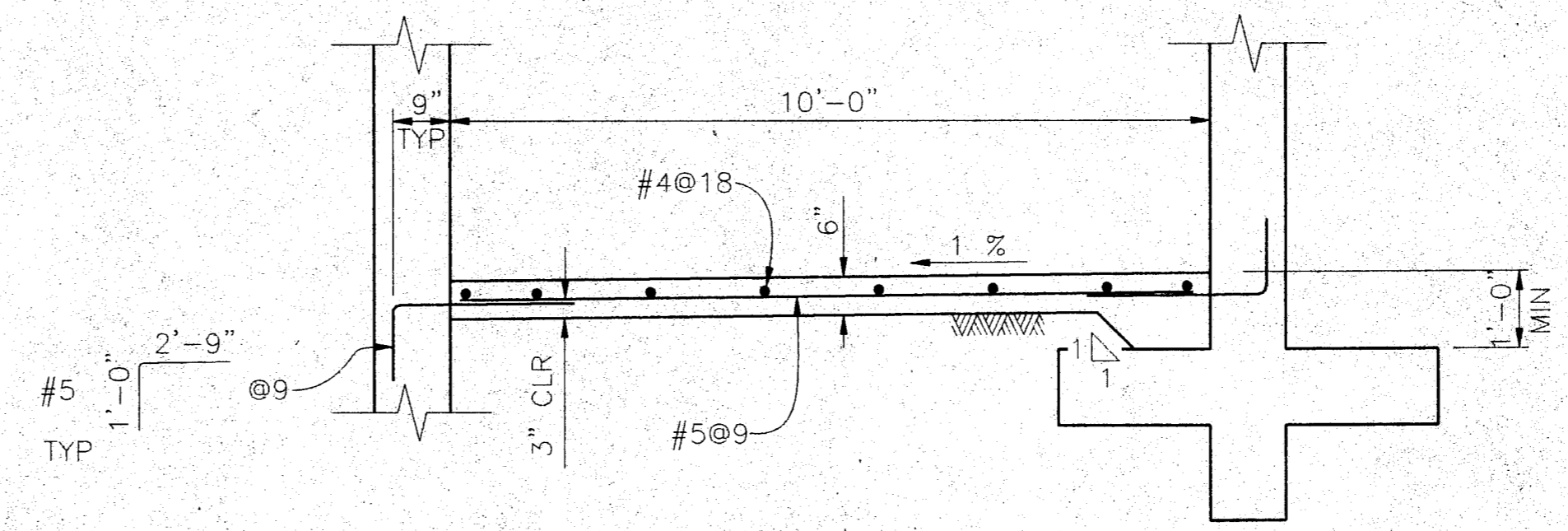
**SECTION J-J**  
 $\frac{1}{4}''=1'-0''$   
 REINFORCEMENT NOT SHOWN



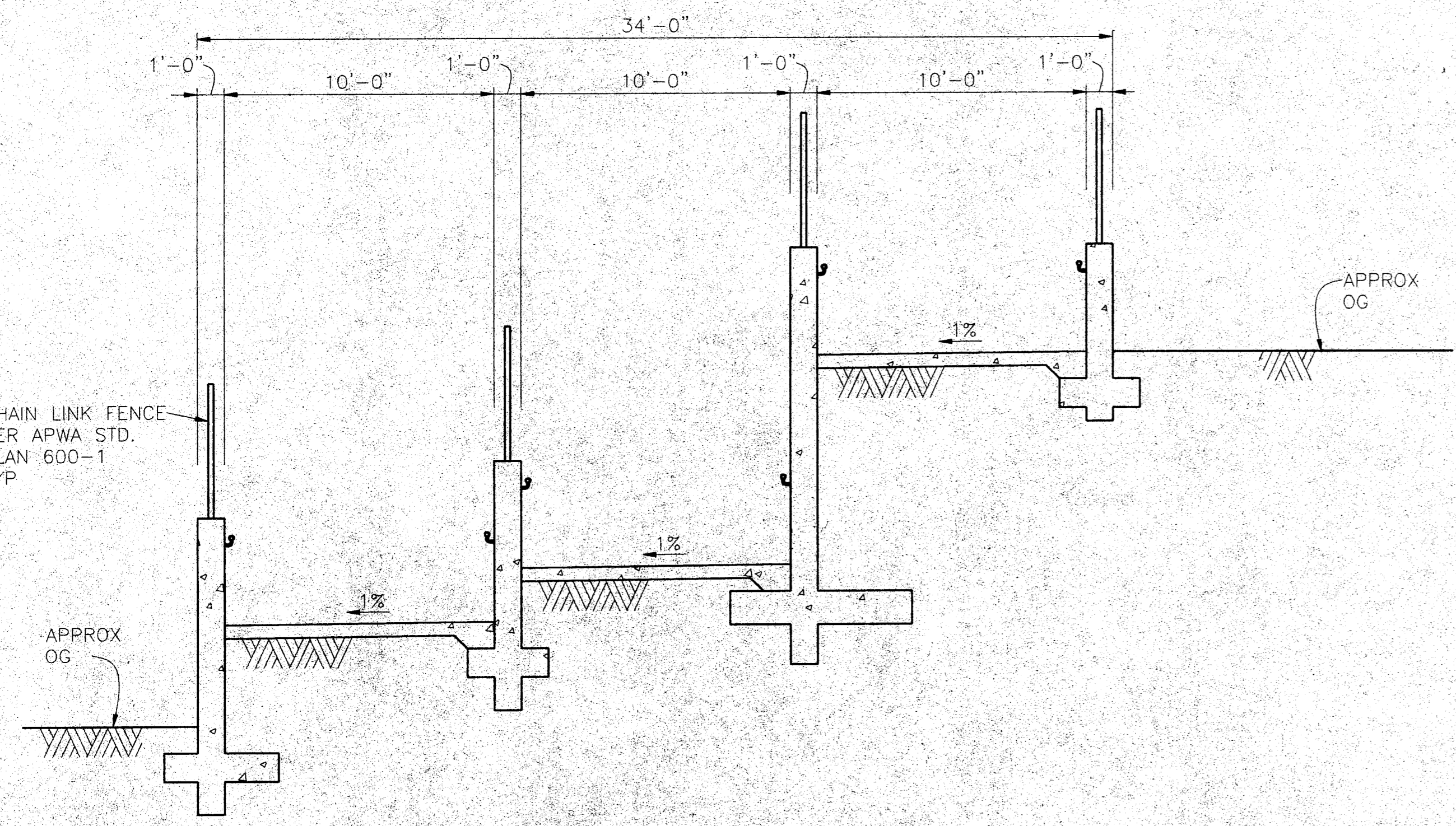
**WEAKENED PLANE DETAIL**  
 WEAKENED PLANES SHALL BE PROVIDED FOR BOTH WALLS AND RAMP SLABS AT 24" MAX.



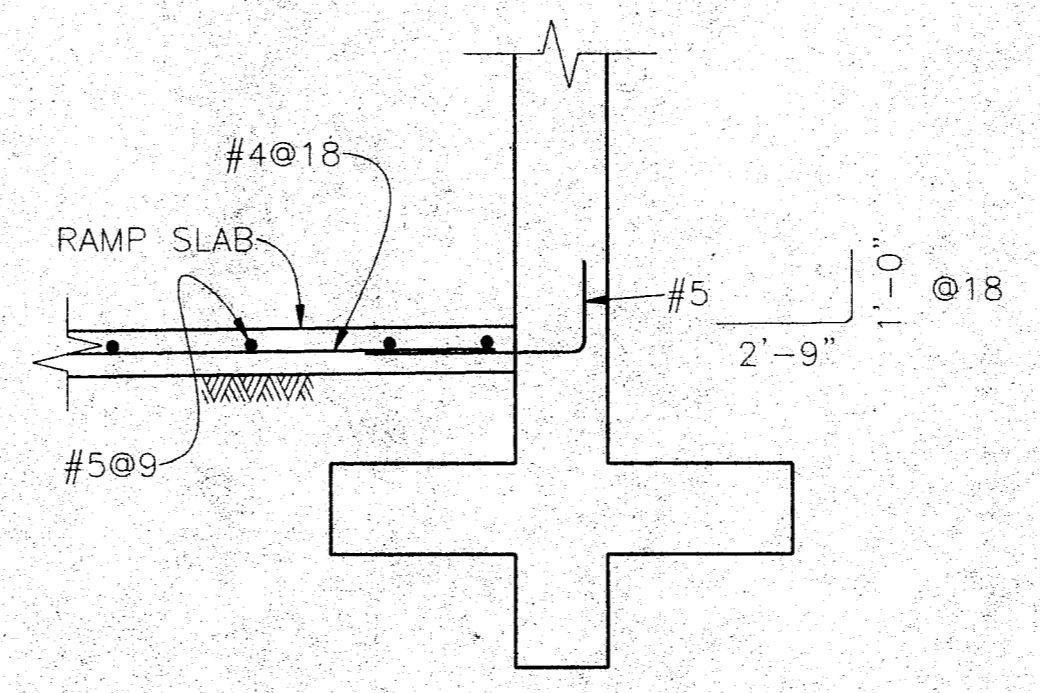
**LANDING AREA SLAB DETAIL**  
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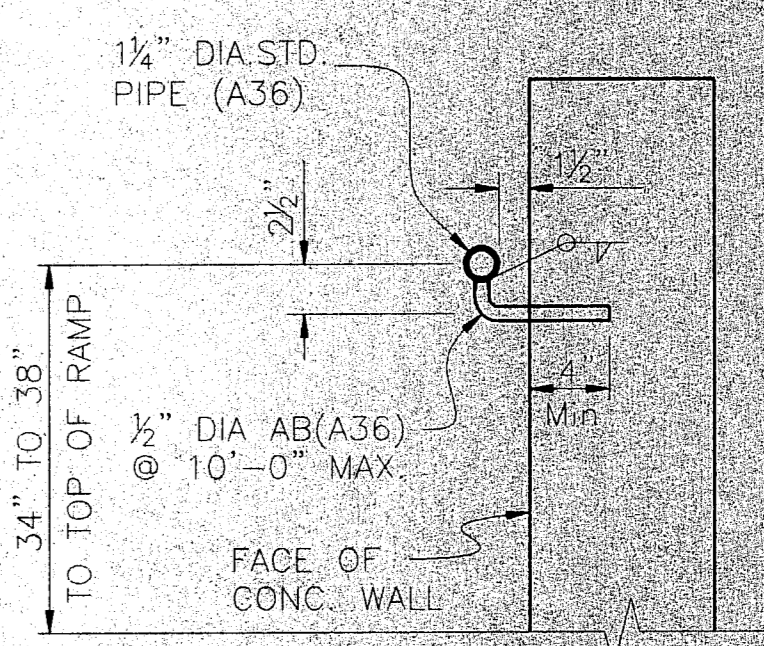
**TYPICAL RAMP SLAB SECTION**  
 NO SCALE  
 WALL REIN NOT SHOWN



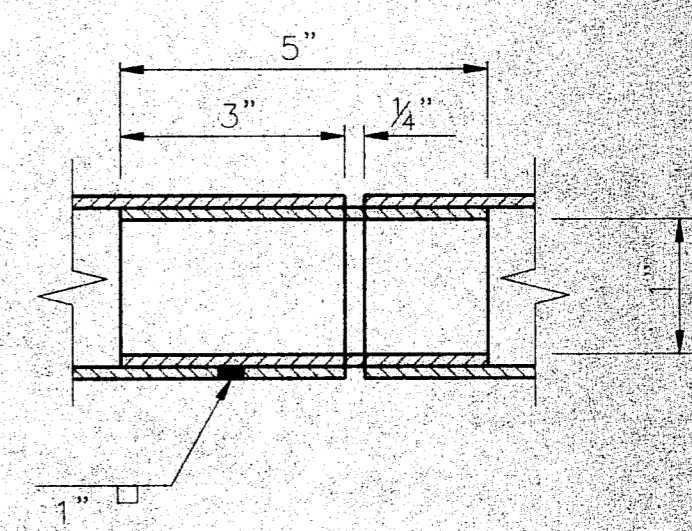
**SECTION H-H**  
 $\frac{1}{4}''=1'-0''$   
 REINFORCEMENT NOT SHOWN



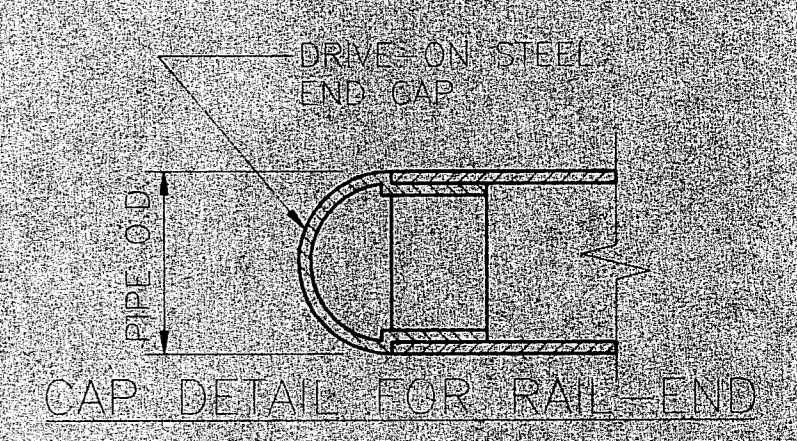
**SECTION K-K**  
 NO SCALE



**MOUNTING DETAIL**



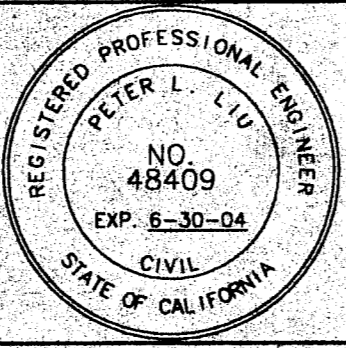
**SLIP JOINT DETAIL**  
 PROVIDE SLIP JOINTS AT EVERY 24 FEET ON CENTER MAXIMUM



**HANDRAIL DETAILS**  
 NO SCALE



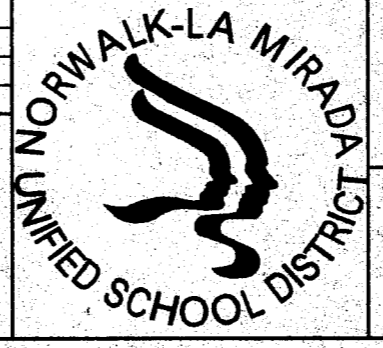
REVISIONS			
NO.	INITIAL	DESCRIPTION	DATE



**WILLDAN**  
 Serving Public Agencies  
 27042 Towne Centre Drive, Suite 270  
 Foothill Ranch, California 92610  
 949/470-8840 fax 949/770-9041

PREPARED UNDER THE SUPERVISION OF  
*Peter L. Liu*  
 PETER L. LIU K.C.E. 48409 DATE: 4/30/04

SCALE:	DATE:
AS SHOWN	APRIL 2004
DRAWN BY: I.C.S.	APRIL 2004
DESIGNED BY: L.M.	APRIL 2004
CHECKED BY: P.L.	APRIL 2004



**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
 FACILITIES SERVICES DIVISION  
 12820 POMERIE BOULEVARD  
 NORWALK, CALIFORNIA 90650

APPROVED:  
 LES LEARY  
 DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS DATE: \_\_\_\_\_

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
 LA MIRADA STADIUM  
**ADA ACCESS RAMP - SECTIONS AND DETAILS**

SHEET 5-2  
 OF 10  
 DWG. NO. \_\_\_\_\_

**DESIGN NOTES**  
**WORKING STRESS DESIGN**

DESIGN CRITERIA: UNIFORM BUILDING CODE, 1997

EQUIVALENT LATERAL PRESSURE: ACTIVE = 70 PCF (LEVEL BACKFILL)  
PASSIVE = 500 PSF+225' PCF (LEVEL SURFACE)

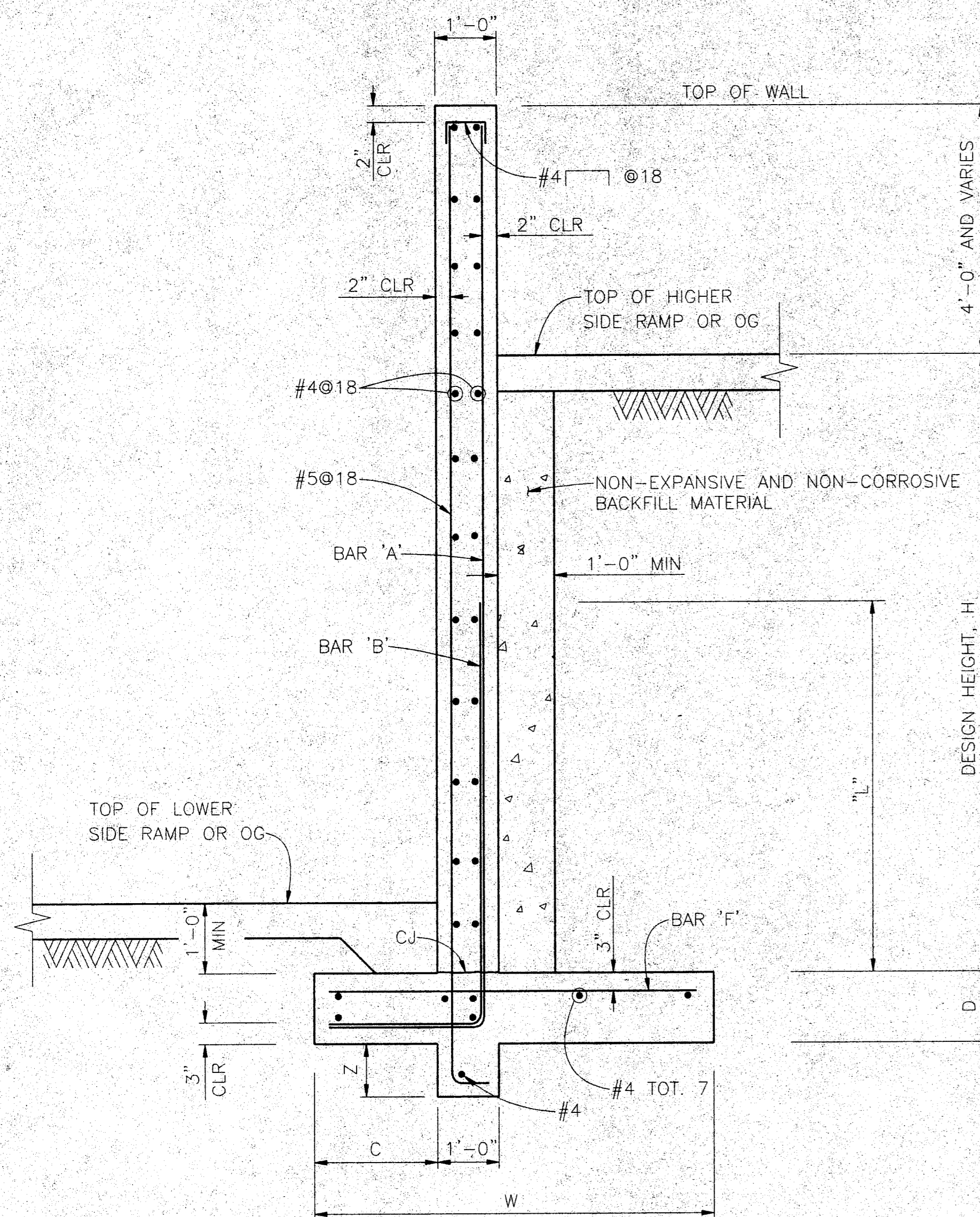
LIVE LOAD SURCHARGE: 100 PSF

SOIL BEARING PRESSURE: ALLOWABLE = 1000+700D+300W (MAX=4000 PSF)  
WHERE D = DEPTH OF EMBEDMENT IN FEET  
W = WIDTH OF FOOTING IN FEET

FRICTION COEFFICIENT: 0.4

CONCRETE:  $f_c = 1300$  PSI,  $f'_c = 3,250$  PSI @ 28 DAYS FOR SLAB & FOOTING  
 $f_c = 1800$  PSI,  $f'_c = 4,500$  PSI @ 28 DAYS FOR WALL

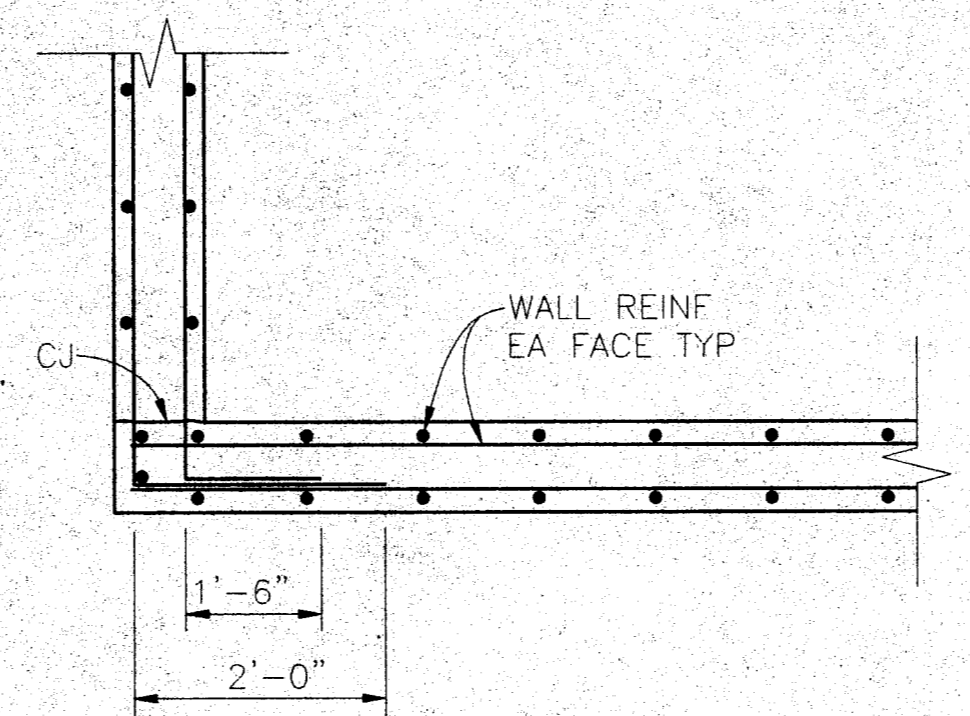
REINFORCEMENT: ASTM A615,  $f_s = 24,000$  /PSI,  $f_y = 60,000$  /PSI



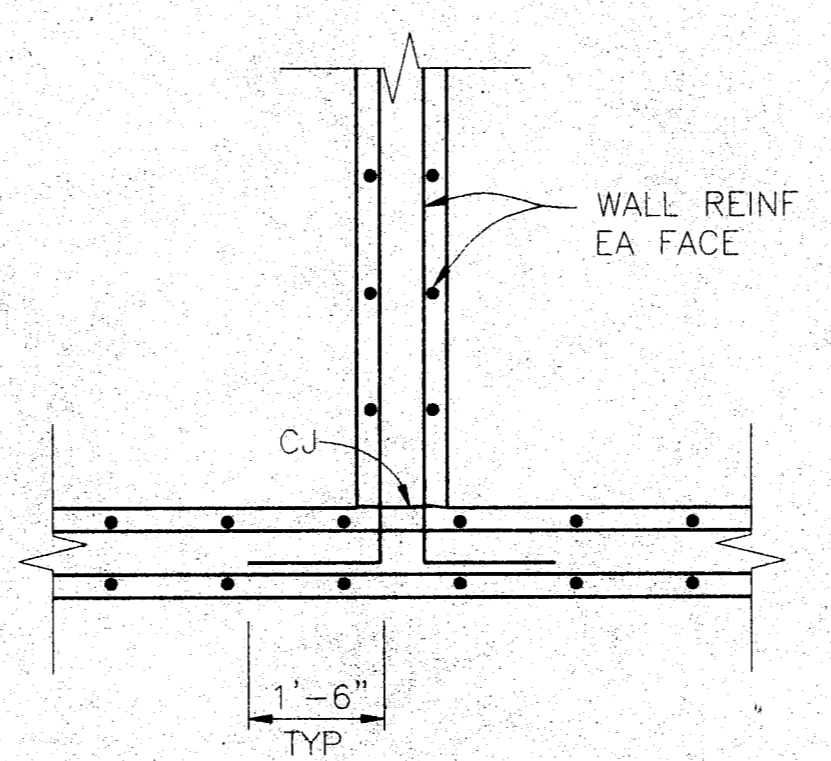
**TYPICAL WALL SECTION**  
NO SCALE  
CHAIN LINK FENCE NOT SHOWN

**NOTES:**

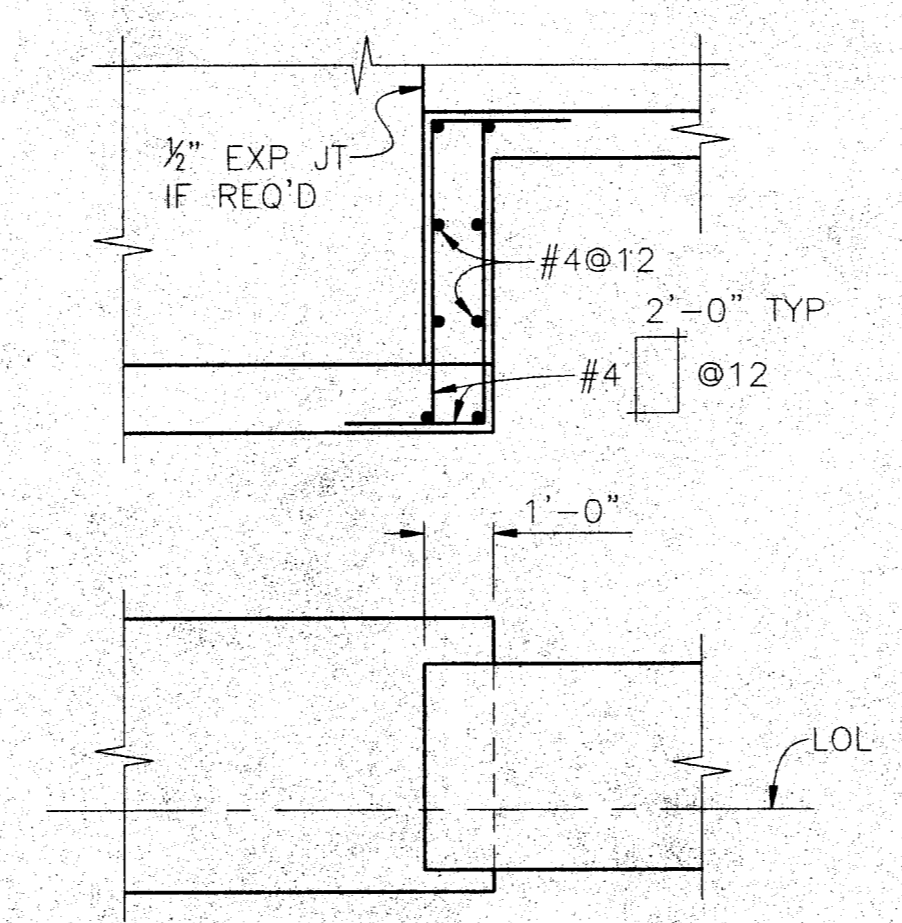
1. STRUCTURE EXCAVATION AND BACKFILL SHALL CONFORM TO THE RECOMMENDATIONS IN "GEOTECHNICAL ENGINEERING INVESTIGATION - LA MIRADA HIGH SCHOOL STADIUM", BY ARROYO GEOTECHNICAL, DATED MARCH 11, 2004.
2. BACKFILLING SOIL BEHIND WALL SHALL NOT PROCEED UNTIL THE CONCRETE OF THE LOWER SIDE RAMP HAS REACHED 2500 PSI.
3. WALL DESIGN HEIGHT 'H' MAY BE EXCEEDED BY A MAX OF 6" BEFORE CHANGING TO NEXT HIGHER DESIGN HEIGHT SECTION.
4. ALTERNATE AND EQUALLY SPACE BARS 'A' AND 'B'.
5. FOR WALL WEAKENED PLAN SEE DETAIL ON SHEET S-2.



**DETAIL AT WALL CORNER**  
NO SCALE

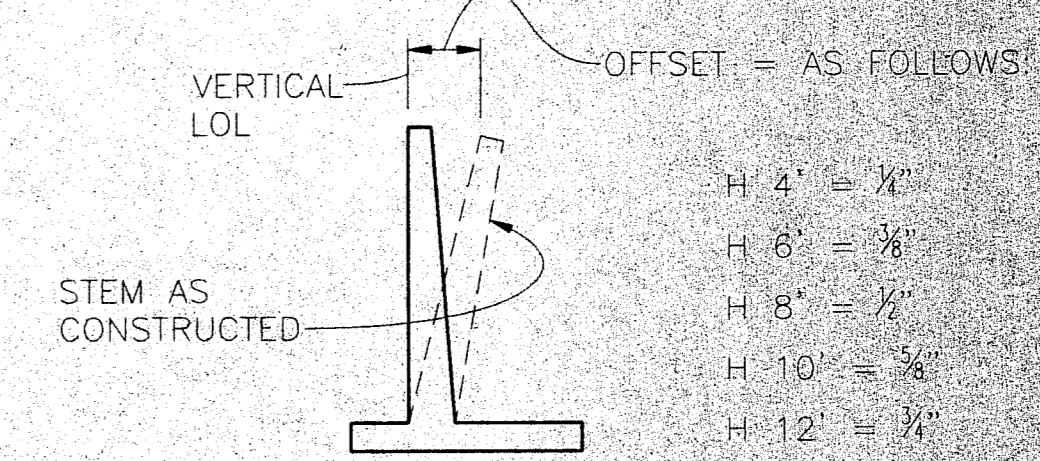


**DETAIL AT WALL INTERSECTION**  
NO SCALE



**FOOTING STEP**  
NO SCALE

RETAINING WALL SCHEDULE OF DIMENSIONS AND REINFORCEMENT					
DESIGN HEIGHT, H	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"
FTG. WIDTH, W	3'-0"	4'-3"	5'-6"	6'-9"	8'-0"
FTG. TOE, C	1'-0"	1'-3"	1'-6"	2'-3"	2'-9"
FTG. DEPTH, D	1'-2"	1'-2"	1'-2"	1'-4"	1'-4"
BAR 'A'	#5@18	#5@18	#5@9	#6@9	#7@9
BAR 'B'	NONE	NONE	#5@9	#6@9	#7@9
BAR 'F'	#5@18	#5@18	#5@9	#6@9	#7@9
DIMENSION "L"	-	-	3'-6"	4'-0"	5'-0"
FTG. KEY "Z"	6"	1'-3"	1'-3"	1'-6"	2'-0"
SOIL BEARING PRESSURE, PSF	2085	2690	2954	3487	4788



**APPROXIMATE WALL OFFSET VALUES**  
NO SCALE

**UNDERGROUND SERVICE ALERT**  
CALL BEFORE YOU DIG  
CALL TOLL FREE  
1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS			
NO.	INITIAL	DESCRIPTION	DATE

REGISTERED PROFESSIONAL ENGINEER  
**PETER L. LIU**  
NO. 48409  
EXP. 5-30-04  
CIVIL  
STATE OF CALIFORNIA

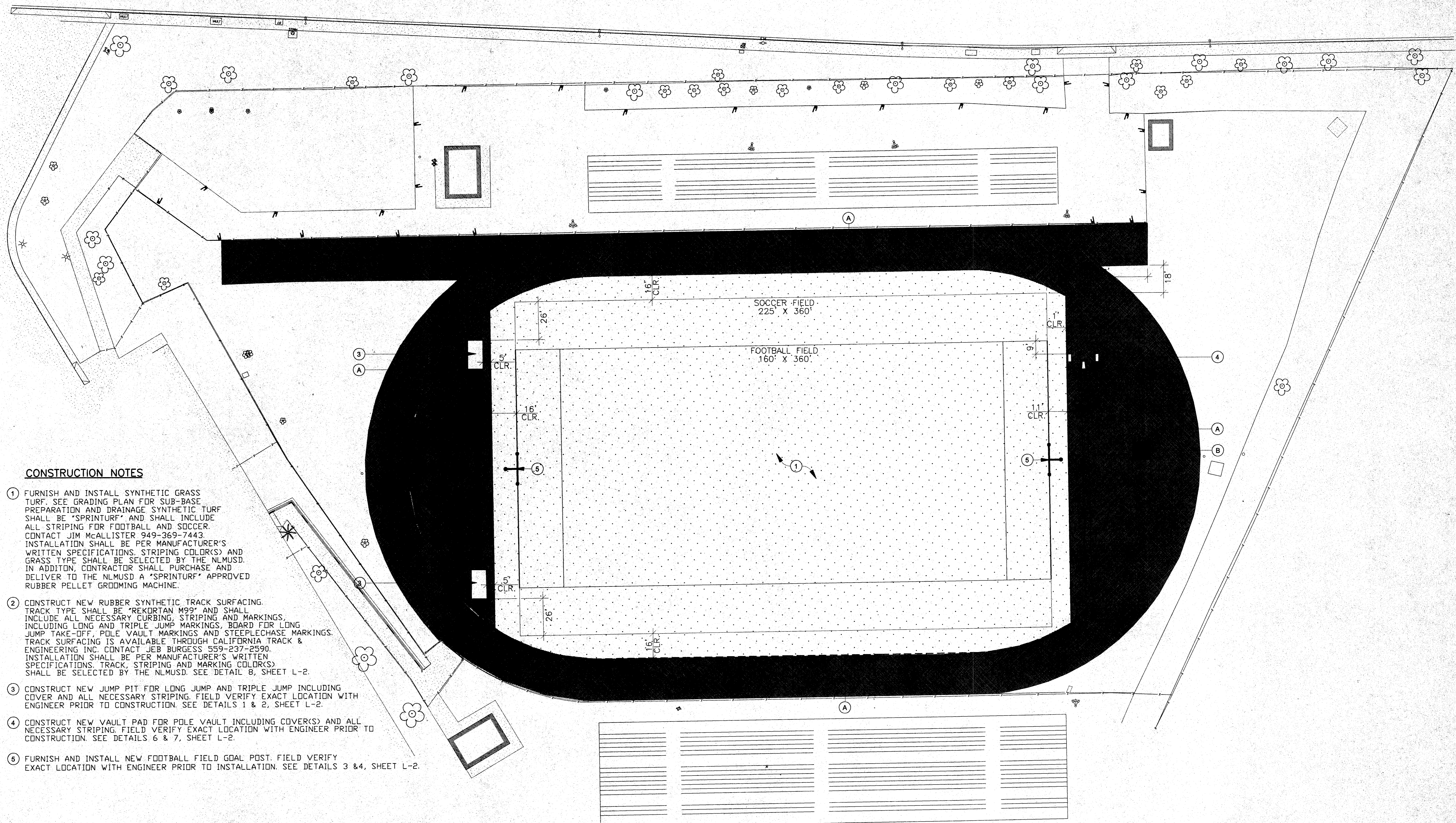
**WILLDAN**  
27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 fax 949/770-9041  
SERVING PUBLIC AGENCIES

SCALE: AS SHOWN  
DRAWN BY: P.L.L.  
DESIGNED BY: L.H.L.  
CHECKED BY: P.L.L.  
DATE: APRIL 2004

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
12820 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650  
APPROVED

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
LA MIRADA STADIUM  
ADA ACCESS RAMP-WALL DETAILS

SHEET  
S-3  
OF 10  
DWG. NO.

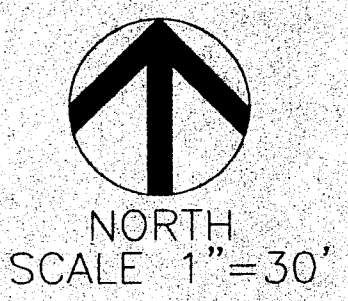


**CONSTRUCTION NOTES**

- ① FURNISH AND INSTALL SYNTHETIC GRASS TURF. SEE GRADING PLAN FOR SUB-BASE PREPARATION AND DRAINAGE. SYNTHETIC TURF SHALL BE "SPRINTURF" AND SHALL INCLUDE ALL STRIPING FOR FOOTBALL AND SOCCER. CONTACT JIM McALLISTER 949-369-7443. INSTALLATION SHALL BE PER MANUFACTURER'S WRITTEN SPECIFICATIONS. STRIPING COLOR(S) AND GRASS TYPE SHALL BE SELECTED BY THE NLMUSD. IN ADDITION, CONTRACTOR SHALL PURCHASE AND DELIVER TO THE NLMUSD A "SPRINTURF" APPROVED RUBBER PELLET GROOMING MACHINE.
- ② CONSTRUCT NEW RUBBER SYNTHETIC TRACK SURFACING. TRACK TYPE SHALL BE "REKORTAN M99" AND SHALL INCLUDE ALL NECESSARY CURBING, STRIPING AND MARKINGS, INCLUDING LONG AND TRIPLE JUMP MARKINGS, BOARD FOR LONG JUMP TAKE-OFF, POLE VAULT MARKINGS AND STEEPLECHASE MARKINGS. TRACK SURFACING IS AVAILABLE THROUGH CALIFORNIA TRACK & ENGINEERING INC. CONTACT JEB BURGESS 559-237-2590. INSTALLATION SHALL BE PER MANUFACTURER'S WRITTEN SPECIFICATIONS. TRACK, STRIPING AND MARKING COLOR(S) SHALL BE SELECTED BY THE NLMUSD. SEE DETAIL 8, SHEET L-2.
- ③ CONSTRUCT NEW JUMP PIT FOR LONG JUMP AND TRIPLE JUMP INCLUDING COVER AND ALL NECESSARY STRIPING. FIELD VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO CONSTRUCTION. SEE DETAILS 1 & 2, SHEET L-2.
- ④ CONSTRUCT NEW VAULT PAD FOR POLE VAULT INCLUDING COVER(S) AND ALL NECESSARY STRIPING. FIELD VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO CONSTRUCTION. SEE DETAILS 6 & 7, SHEET L-2.
- ⑤ FURNISH AND INSTALL NEW FOOTBALL FIELD GOAL POST. FIELD VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO INSTALLATION. SEE DETAILS 3 & 4, SHEET L-2.

**ALTERNATE BID ITEM**

- Ⓐ FURNISH AND INSTALL REMOVEABLE TRACK CURBING RAIL. FIELD VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO CONSTRUCTION. SEE SPECIFICATIONS FOR DETAILS.
- Ⓑ CONSTRUCT WATER JUMP PIT (STEEPLECHASE) W/ COVER AND ALL NECESSARY STRIPING. FIELD VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO CONSTRUCTION. SEE DETAIL 5, SHEET L-2.



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1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**REGISTERED LANDSCAPE ARCHITECT**  
JOHN HIDALGO  
No. 3551  
Exp. 07-31-04  
STATE OF CALIFORNIA

**WILLDAN**  
27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 fax 949/770-9041  
Serving Public Agencies

PREPARED UNDER THE SUPERVISION OF  
*John Hidalgo*  
JOHN HIDALGO R.L.A. 3551 4/30/04 DATE

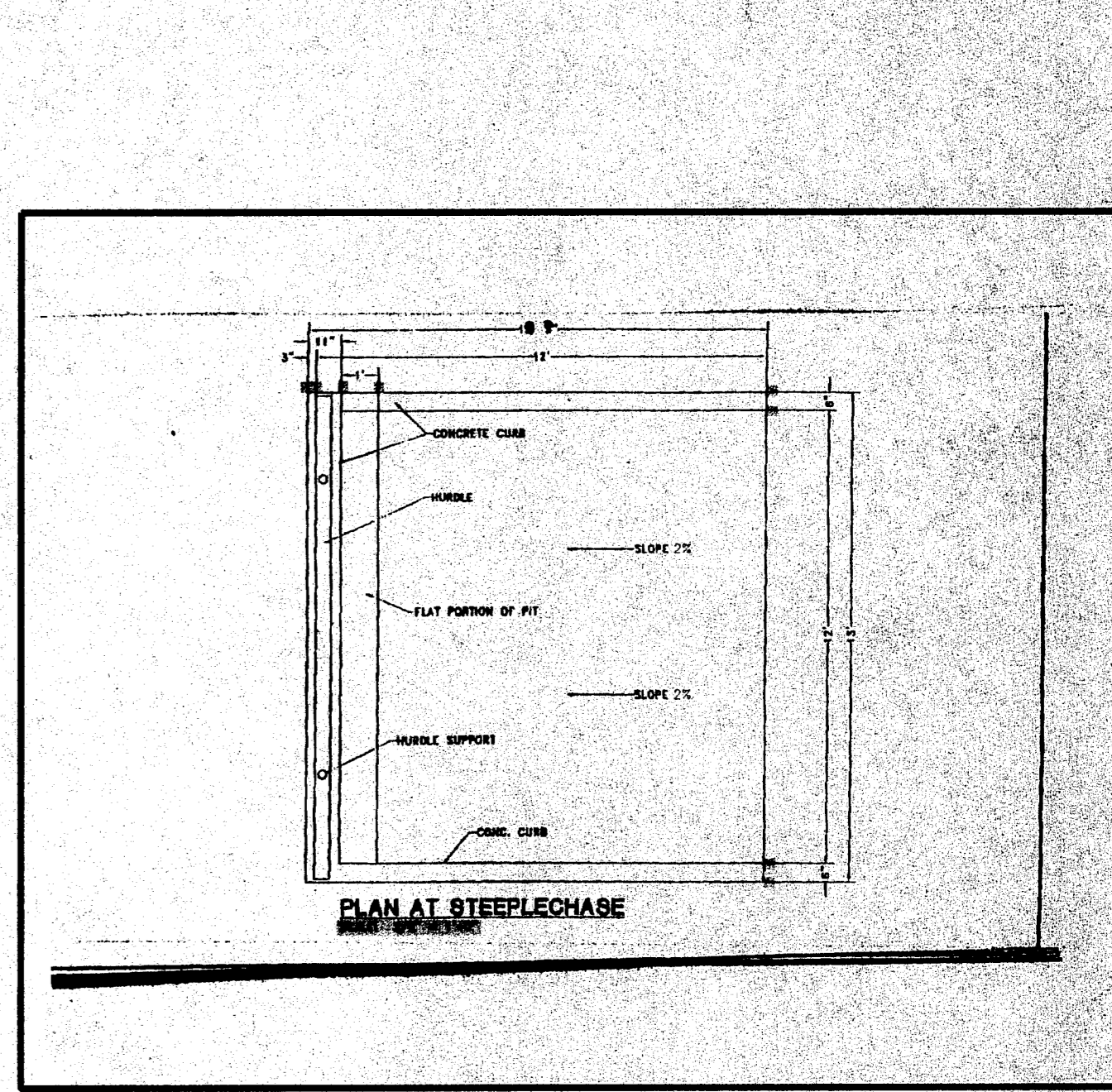
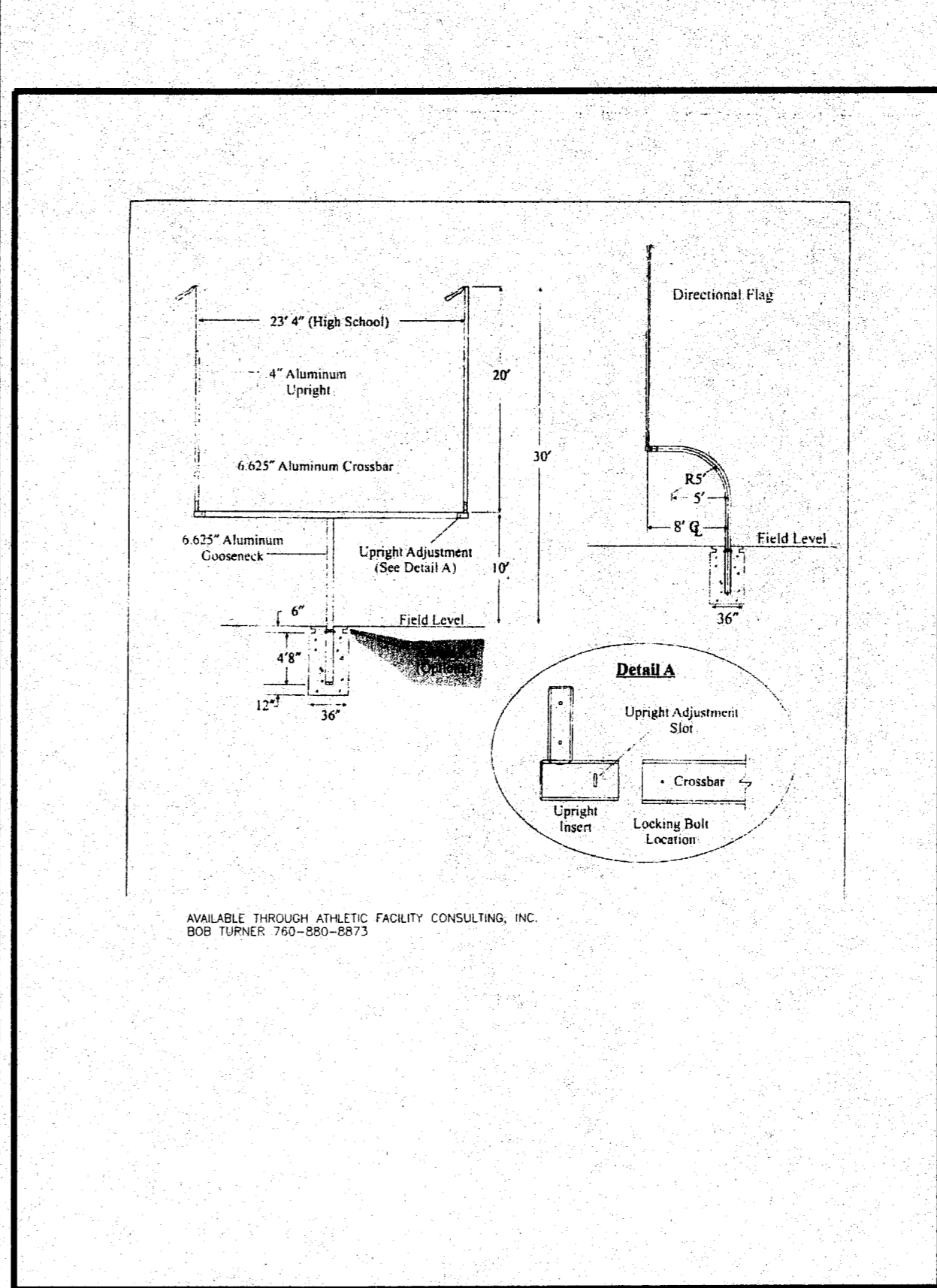
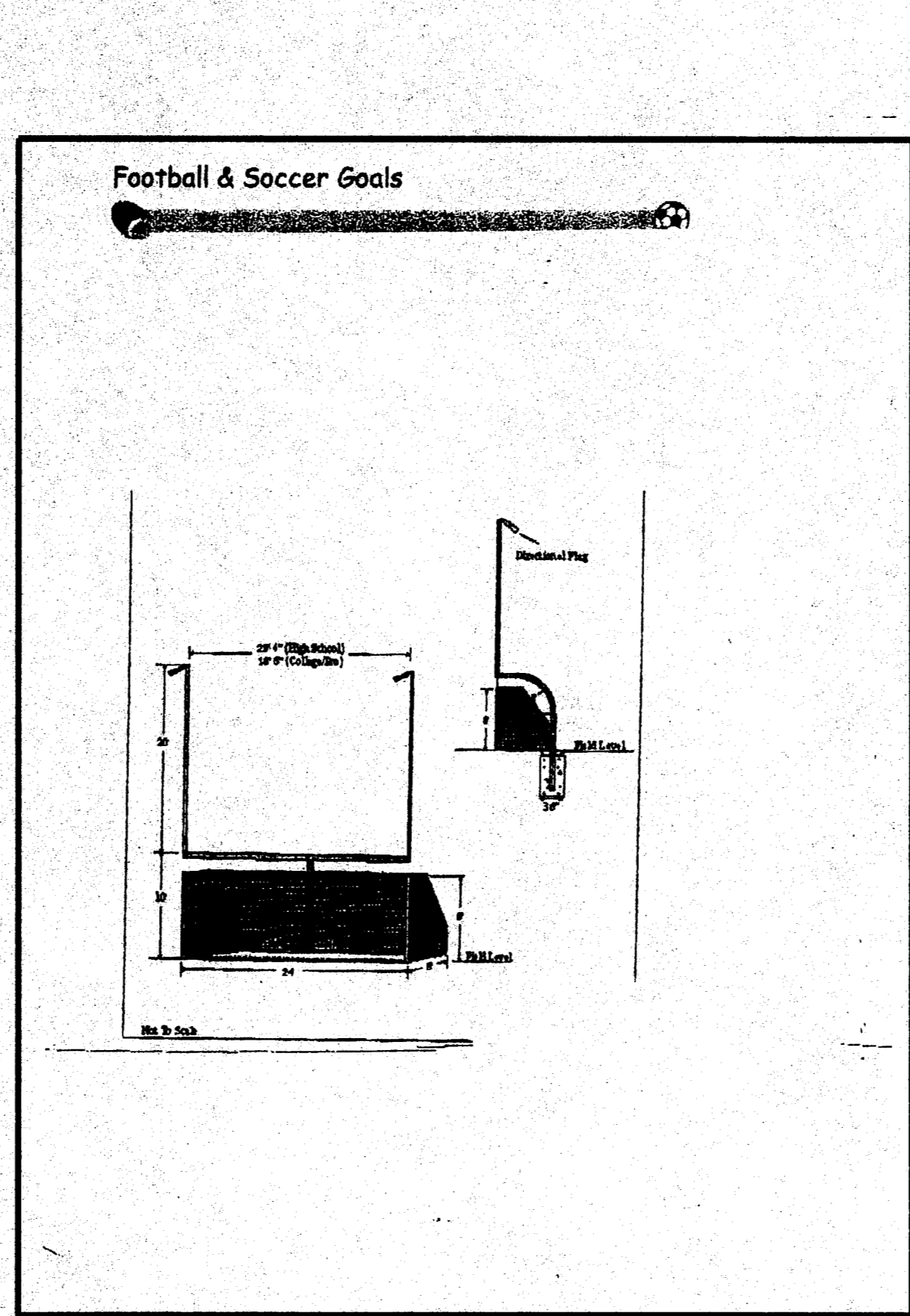
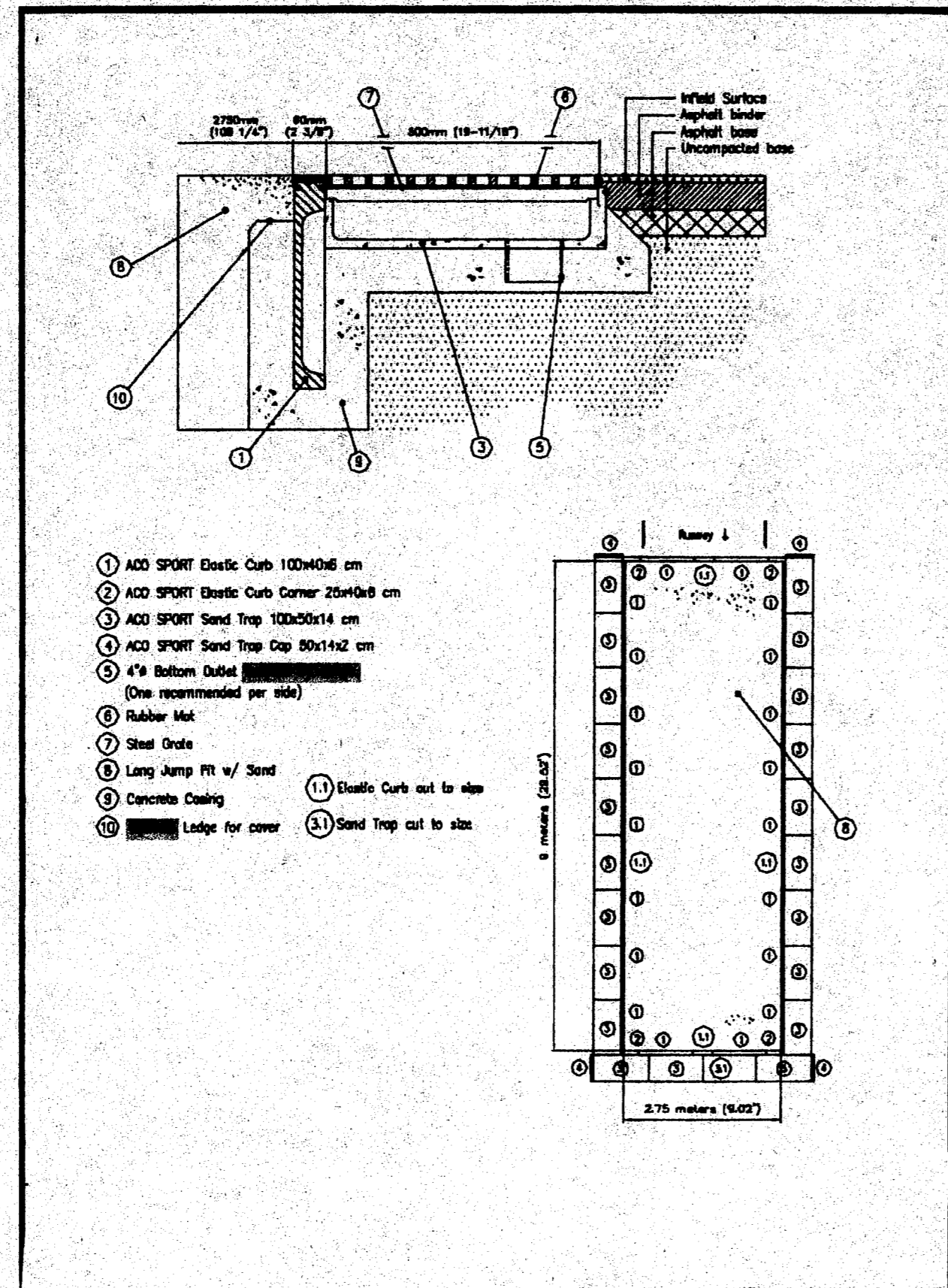
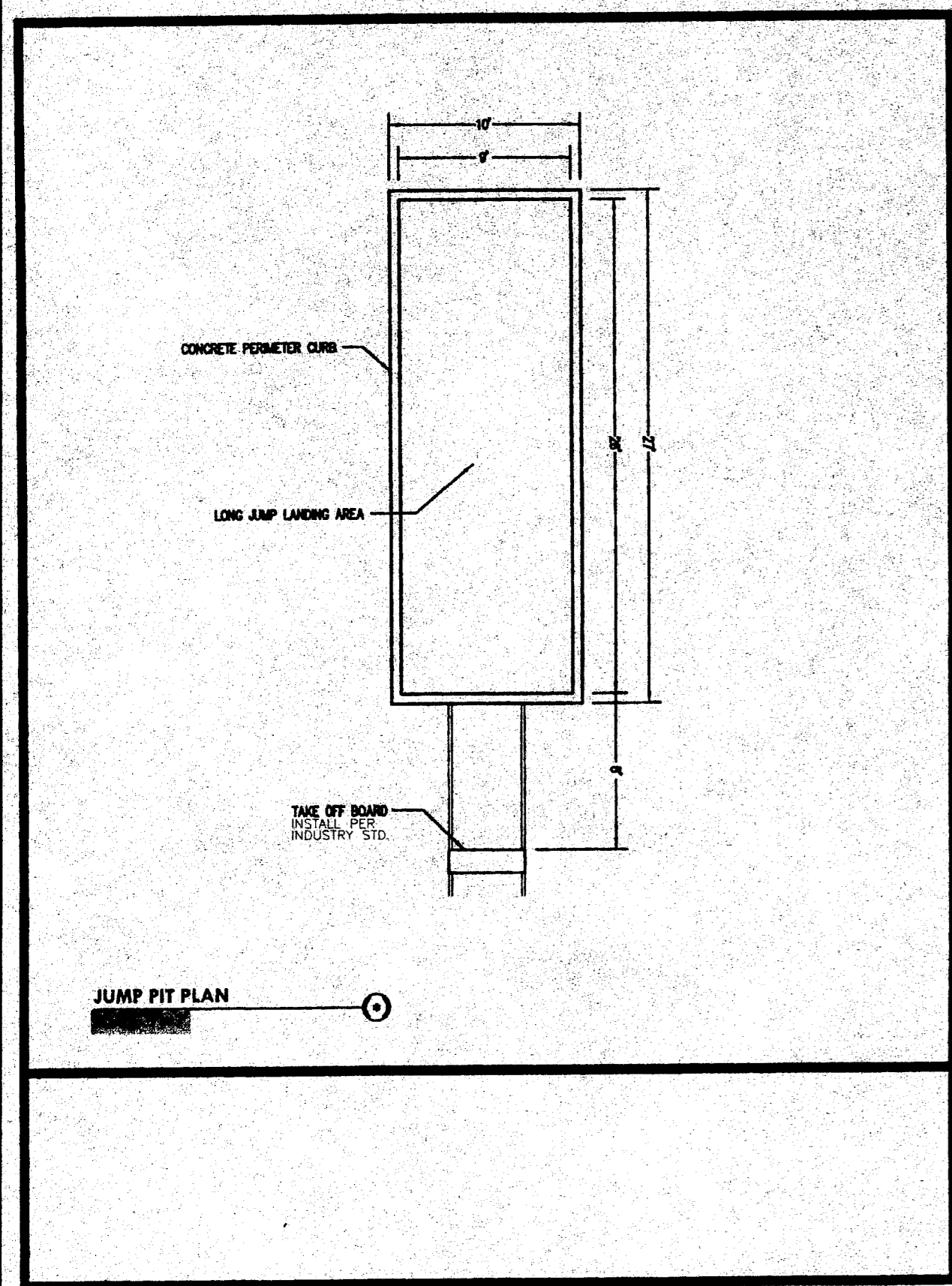
SCALE: AS SHOWN  
DATE: MARCH 2004  
DRAWN BY: A.A., S.M., C.M., J.T.  
DESIGNED BY: J.T.  
CHECKED BY: K.T.

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT FACILITIES SERVICES DIVISION**  
12830 PIONEER BOULEVARD  
NORWALK, CALIFORNIA 90650  
APPROVED  
LES LEARY DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS DATE

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
LA MIRADA STADIUM  
SYNTHETIC TURF AND TRACK CONSTRUCTION PLAN

SHEET L-1 OF 10 DWG. NO.



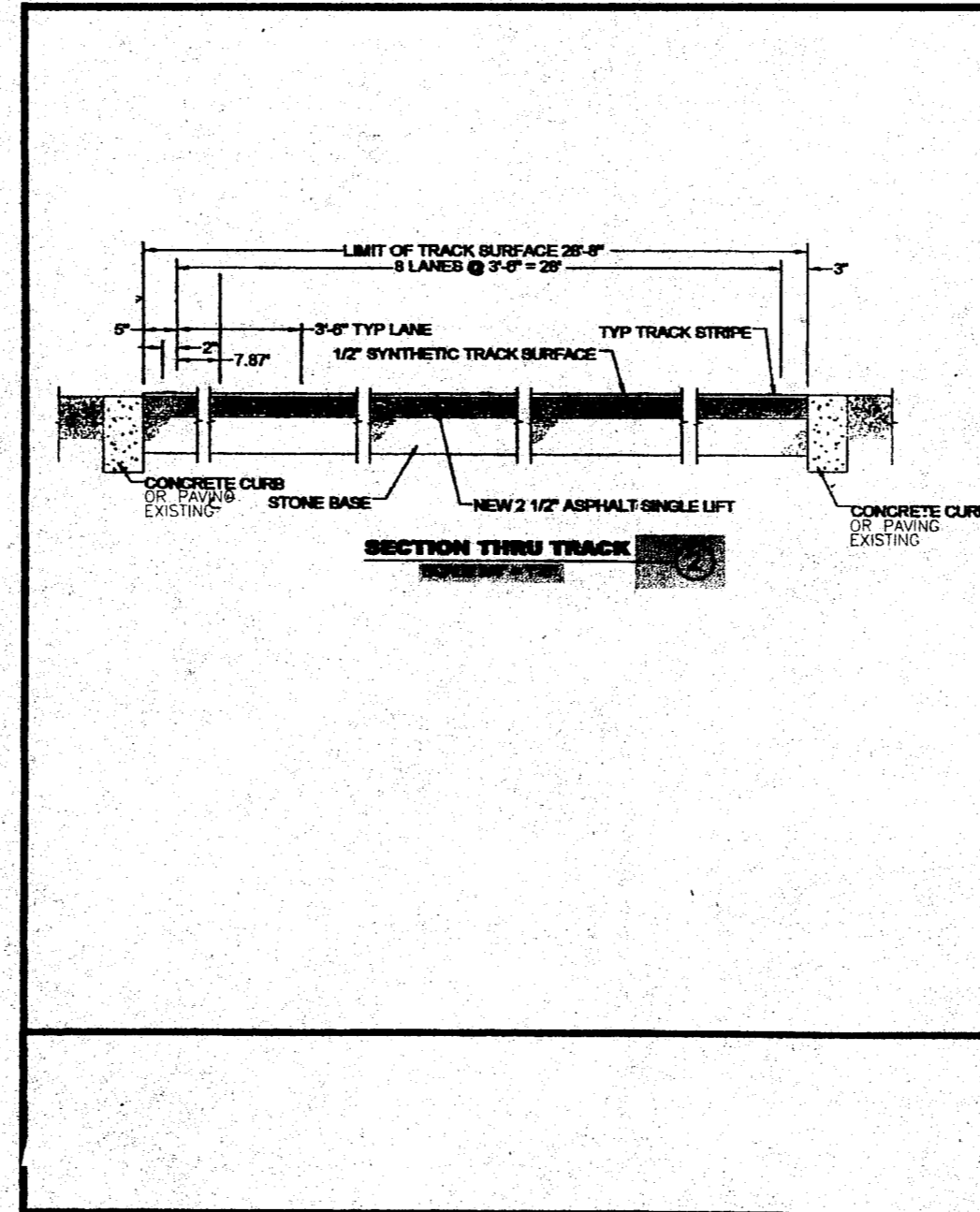
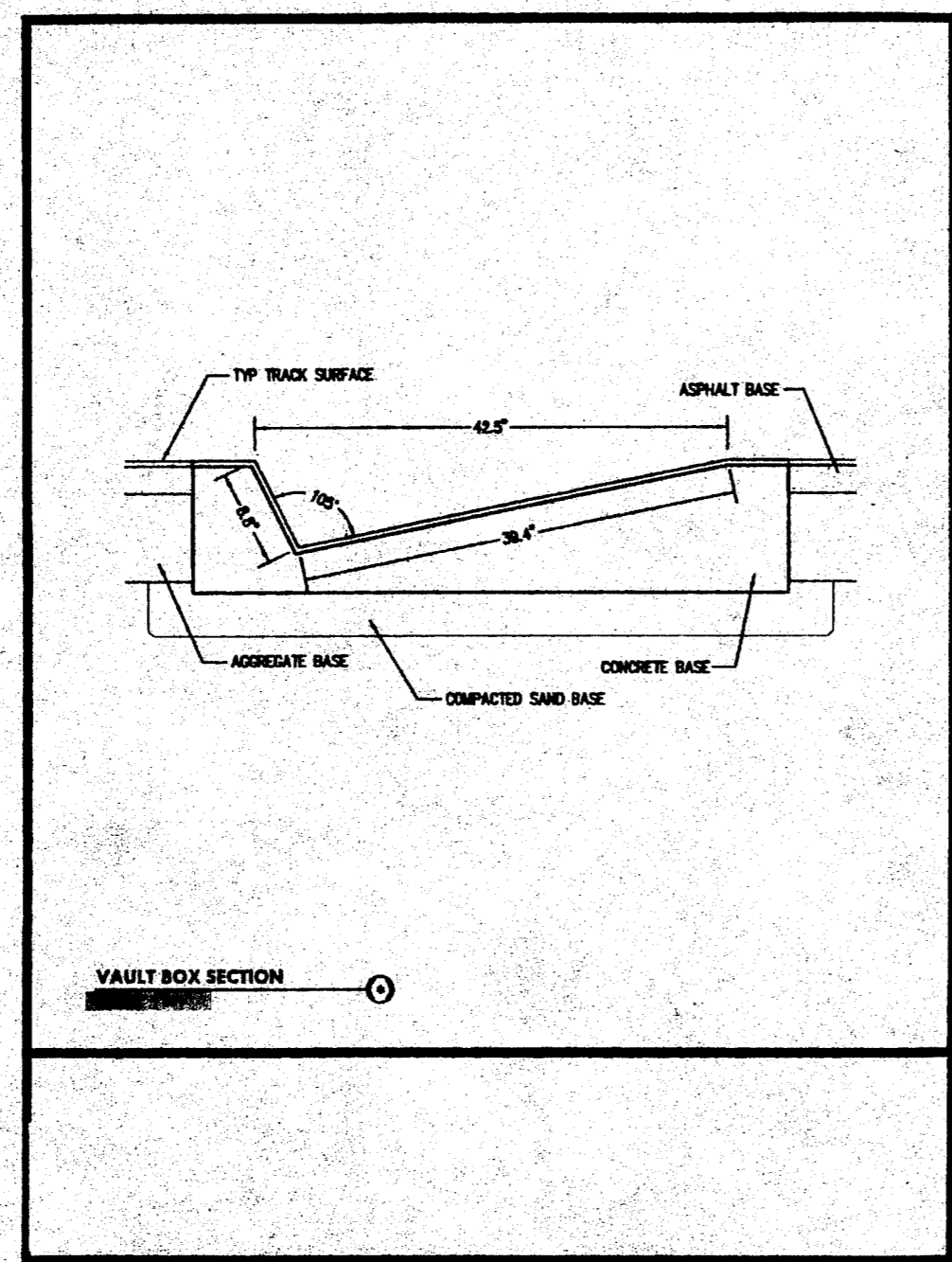
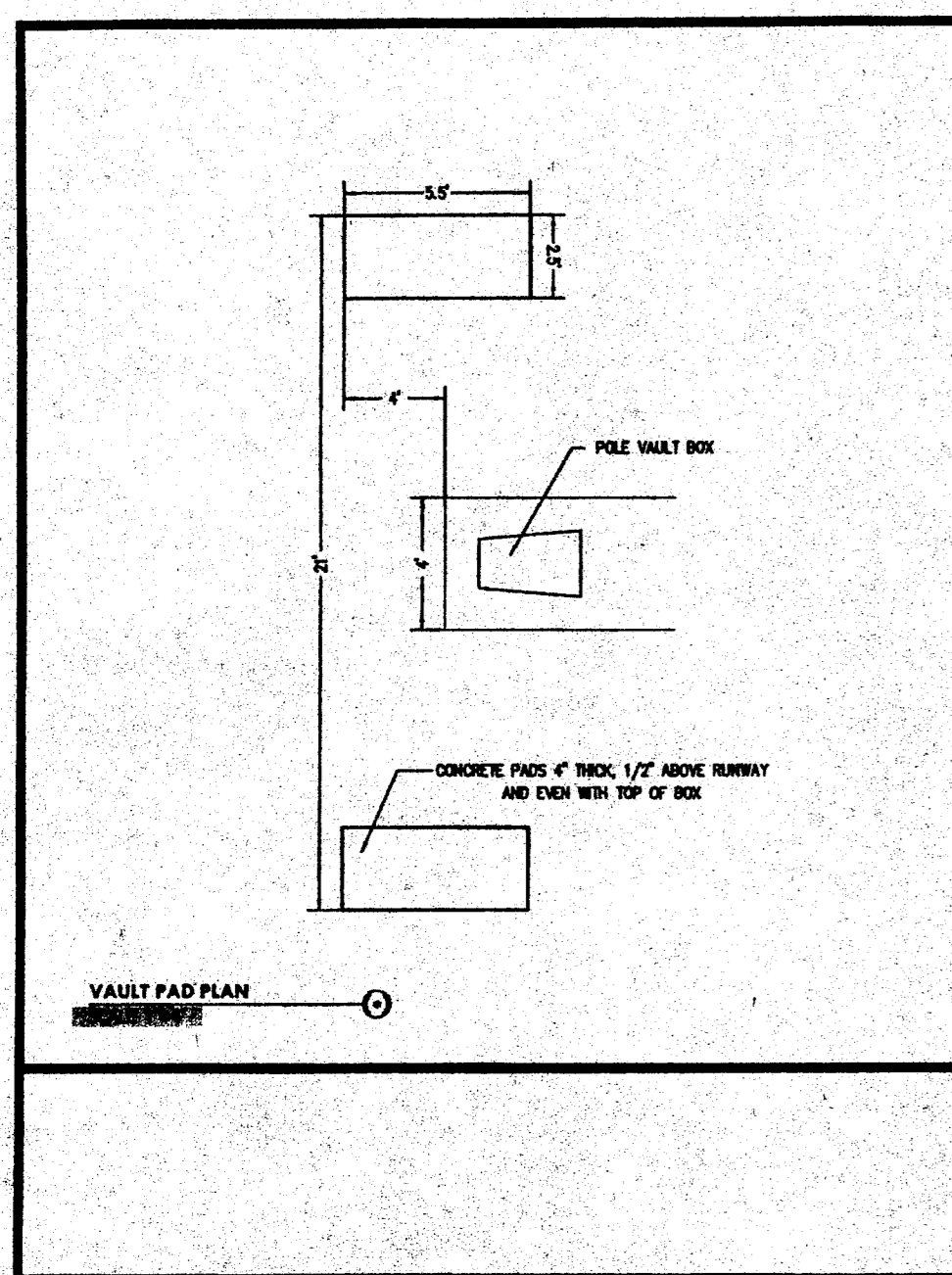
1 JUMP PIT PLAN

2 JUMP PIT SAND TRAP

3 COMBINATION FIELD GOAL POST/SOCCER GOAL

4 COMBINATION FIELD GOAL POST/SOCCER GOAL

5 STEEPLE CHASE



6 VAULT PAD LAYOUT

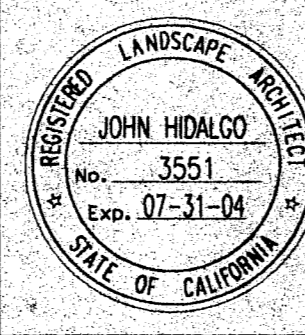
7 VAULT BOX

8 SYNTHETIC TRACK SECTION

UNDERGROUND SERVICE ALERT  
CALL BEFORE YOU DIG  
CALL TOLL FREE  
1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

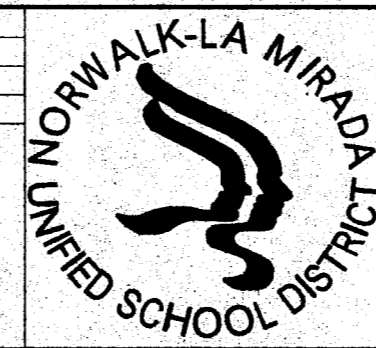
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN** 27042 Towne Centre Drive, Suite 270  
Foothill Ranch, California 92610  
949/470-8840 fax 949/770-8041  
Serving Public Agencies

PREPARED UNDER THE SUPERVISION OF  
*John Hidalgo*  
JOHN HIDALGO R.L.A. 3551 4/30/04 DATE

SCALE	AS SHOWN	DATE
DRAWN BY	A.A. S.M., C.M., J.T.	MARCH 2004
DESIGNED BY	J.T.	MARCH 2004
CHECKED BY	K.T.	MARCH 2004

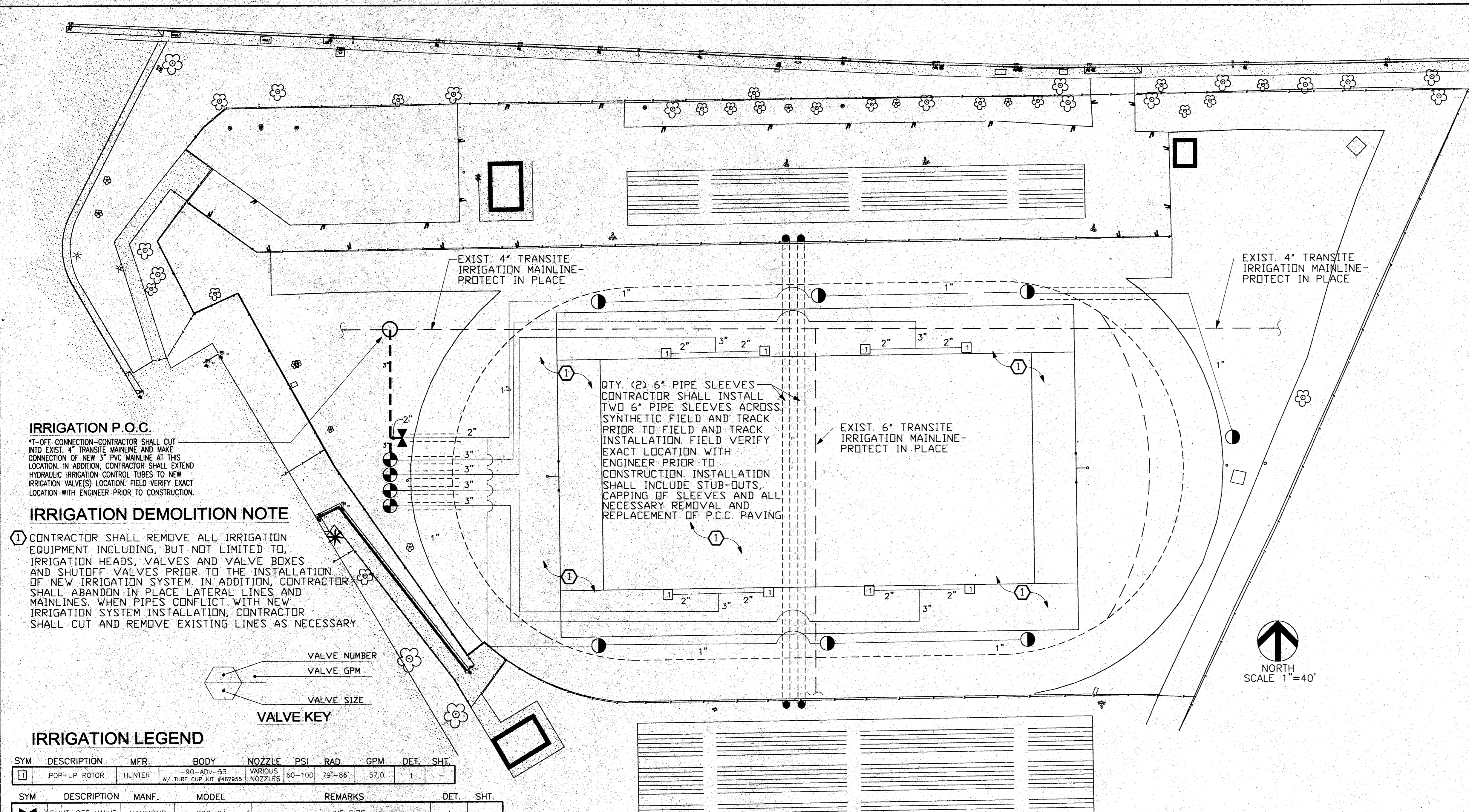


**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
FACILITIES SERVICES DIVISION  
12820 PRINCEP BOULEVARD  
NORWALK, CALIFORNIA 90650

APPROVED  
*Les Leary*  
LES LEARY DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS DATE

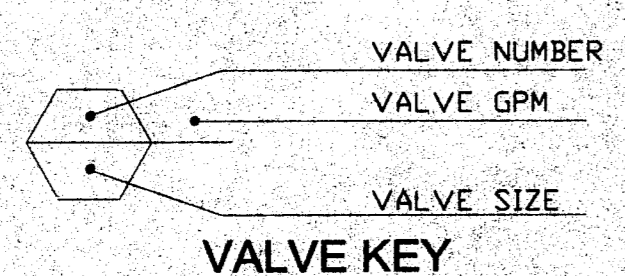
**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
LA MIRADA STADIUM  
CONSTRUCTION DETAILS

SHEET  
L-2  
OF 10  
DWG NO.



**IRRIGATION P.O.C.**  
 T-OFF CONNECTION-CONTRACTOR SHALL CUT INTO EXIST. 4" TRANSITE MAINLINE AND MAKE CONNECTION OF NEW 3" PVC MAINLINE AT THIS LOCATION. IN ADDITION, CONTRACTOR SHALL EXTEND HYDRAULIC IRRIGATION CONTROL TUBES TO NEW IRRIGATION VALVE(S) LOCATION. FIELD VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO CONSTRUCTION.

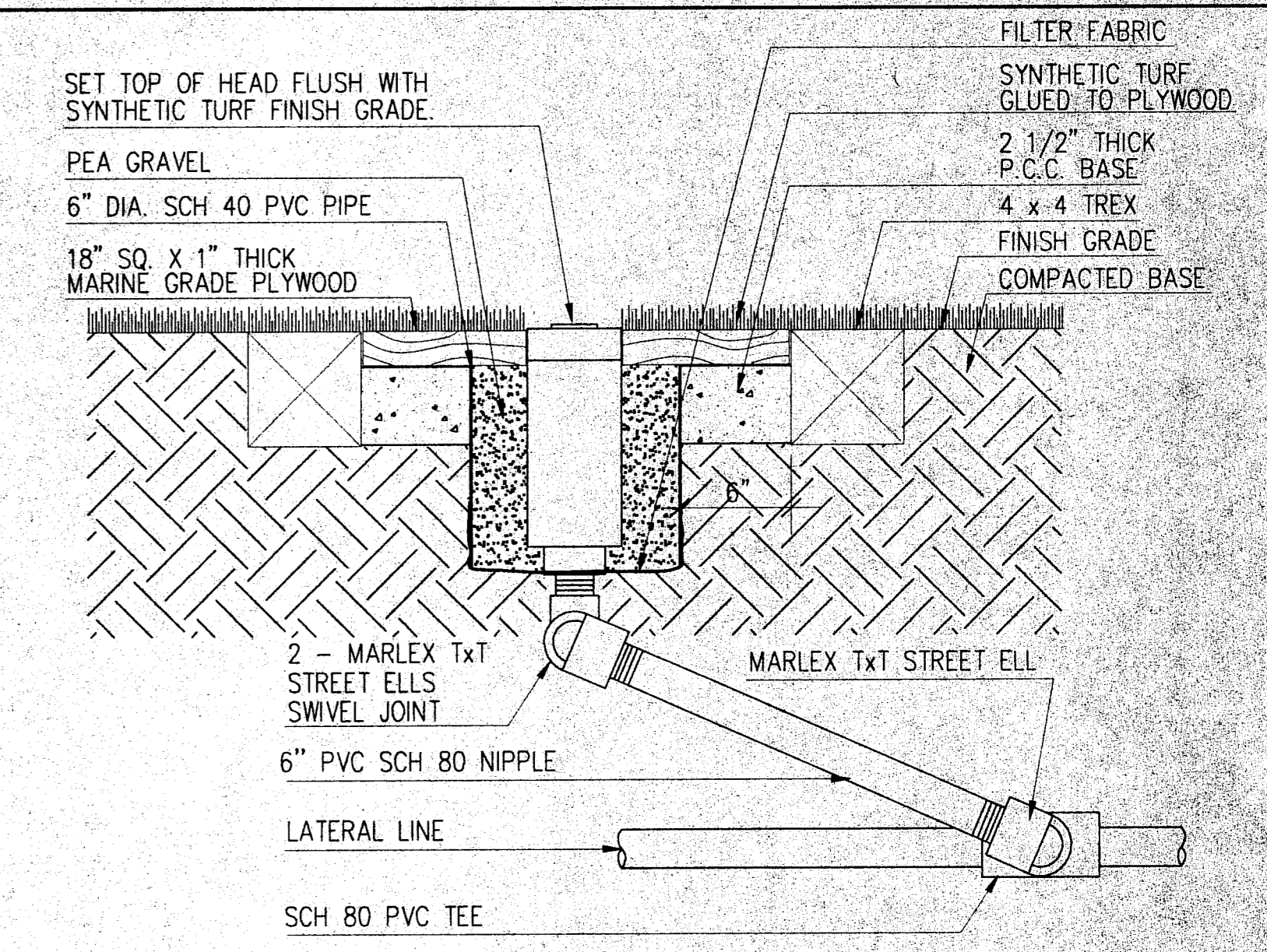
**IRRIGATION DEMOLITION NOTE**  
 1 CONTRACTOR SHALL REMOVE ALL IRRIGATION EQUIPMENT INCLUDING, BUT NOT LIMITED TO, IRRIGATION HEADS, VALVES AND VALVE BOXES AND SHUTOFF VALVES PRIOR TO THE INSTALLATION OF NEW IRRIGATION SYSTEM. IN ADDITION, CONTRACTOR SHALL ABANDON IN PLACE LATERAL LINES AND MAINLINES. WHEN PIPES CONFLICT WITH NEW IRRIGATION SYSTEM INSTALLATION, CONTRACTOR SHALL CUT AND REMOVE EXISTING LINES AS NECESSARY.



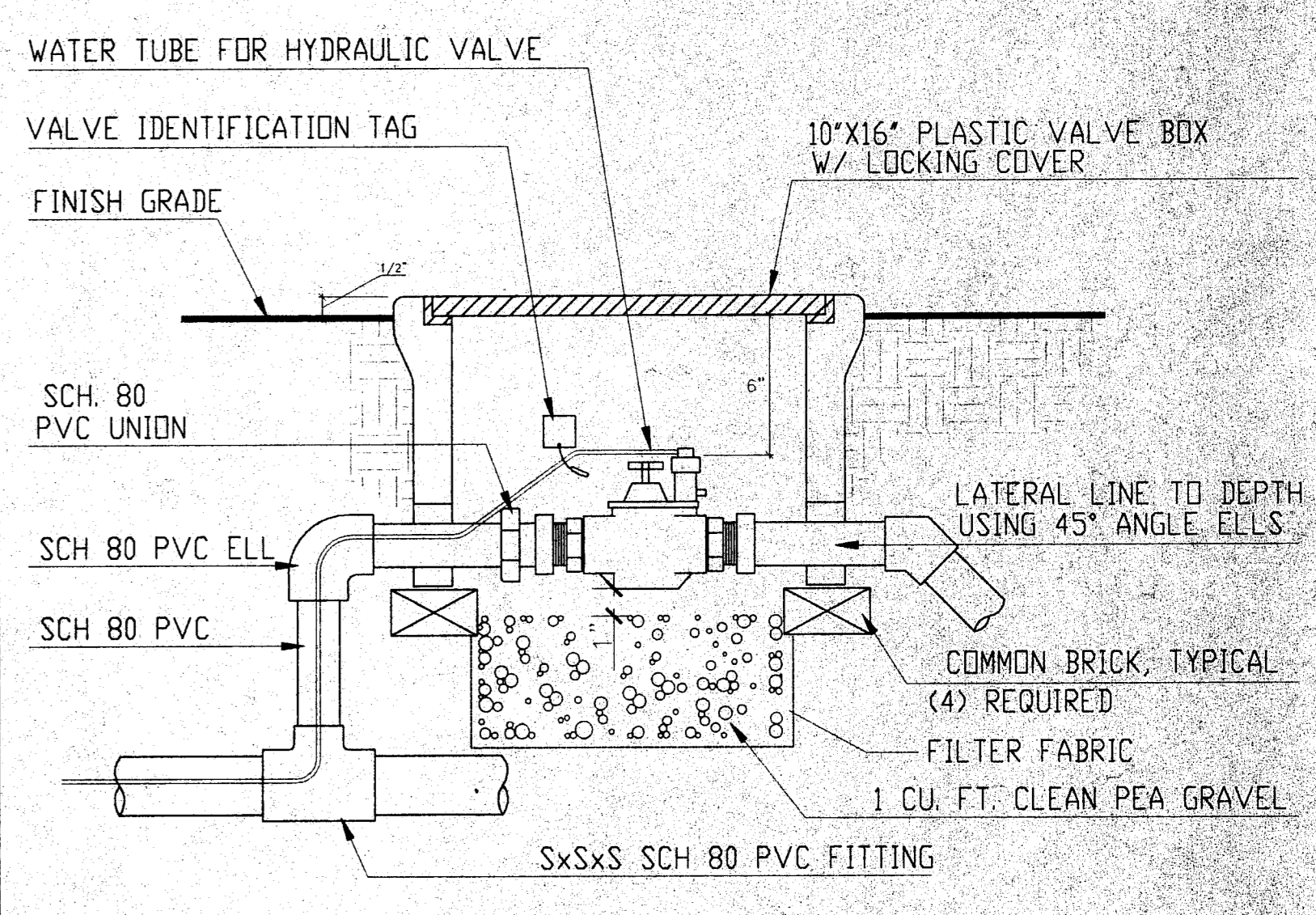
**IRRIGATION LEGEND**

SYM	DESCRIPTION	MFR	BODY	NOZZLE	PSI	RAD	GPM	DET.	SHT.
□	POP-UP ROTOR	HUNTER	I-90-ADV-53 W/ TURF CUP KIT #467955	VARIOUS NOZZLES	60-100	79"-86"	57.0	1	-
SYM	DESCRIPTION	MANF.	MODEL	REMARKS	DET.	SHT.			
⊘	SHUT-OFF VALVE	HAMMOND	606-64	LINE SIZE	4	-			
⊘	CONTROL VALVE	SUPERIOR	100 SERIES HYDRAULIC VALVE	SIZE NOTED ON PLAN WATER CONTROL TUBE TYPE SHALL MATCH EXISTING SYSTEM TUBE TYPE	2	-			
⊘	QUICK COUPLER	RAINBIRD	44 DLRC	SIZE 1" LOCATE VALVE OUTSIDE FIELD OF PLAY AREA ADJACENT TO TRACK GURB	3	-			
---	IRRIGATION MAINLINE	APPROVED	CLASS 315 PVC SCH 40 PVC	2" AND GREATER-CLASS 315 PVC 1 1/2" AND SMALLER-SCH 40 PVC	5	-			
---	IRRIGATION LATERAL	APPROVED	CLASS 315 PVC SCH 40 PVC		5	-			
---	PIPE SLEEVE	APPROVED	SCH. 40 PVC	TWICE LINE SIZE	5	-			

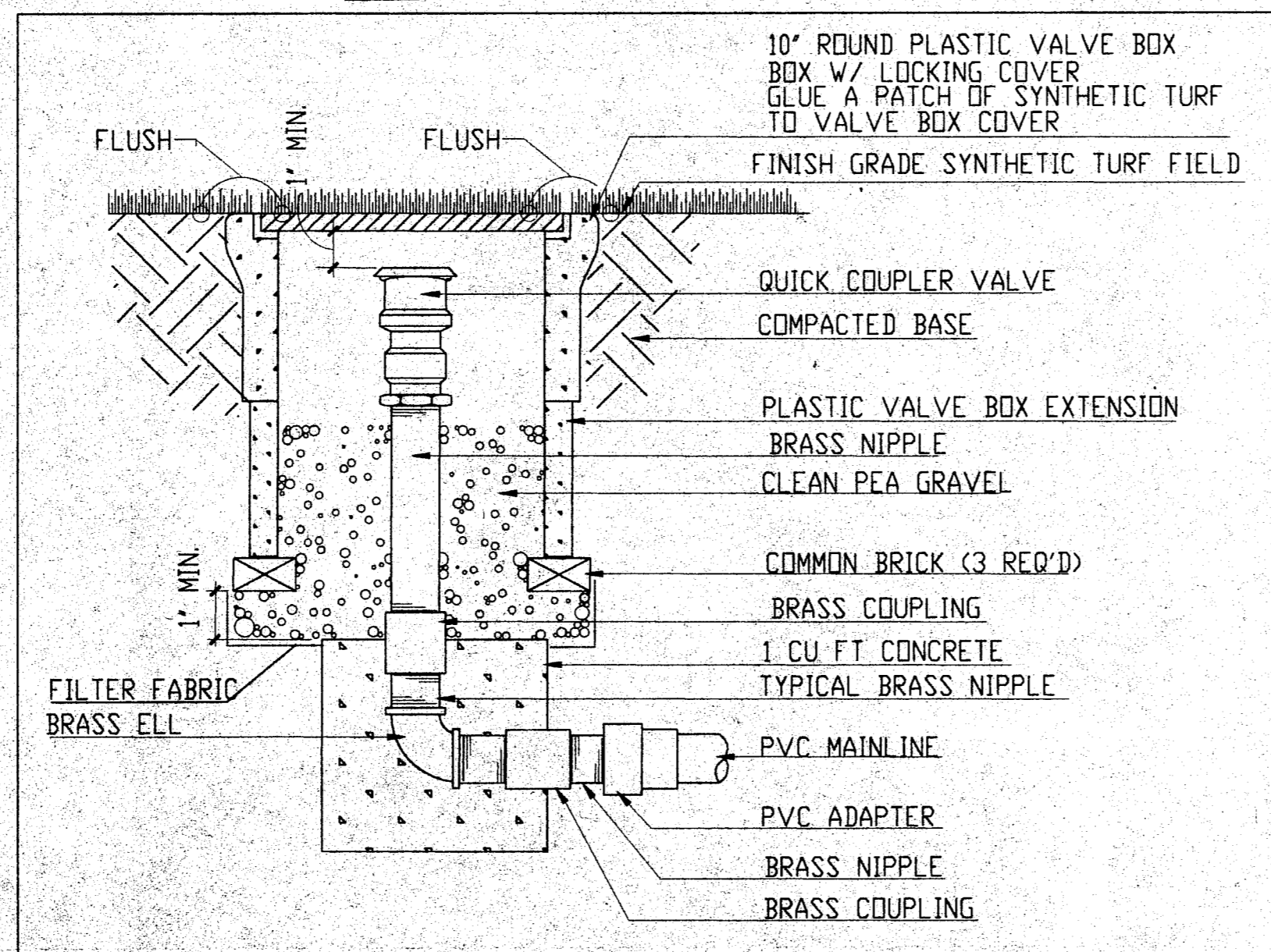
- IRRIGATION NOTES**
- PLAN IS DIAGRAMMATIC. PIPING AND VALVES SHOWN IN PAVED AREAS ARE TO BE INSTALLED IN LAWN AREAS WHENEVER POSSIBLE.
  - FIELD VERIFY WATER AND POWER SOURCES WITH THE ENGINEER PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO THE START OF CONSTRUCTION.
  - DO NOT INSTALL THE IRRIGATION SYSTEM AS SHOWN WHEN IT IS OBVIOUS THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN AREA DIMENSIONS WOULD REQUIRE A CHANGE IN THE SYSTEM'S DESIGN. NOTIFY THE PROJECT MANAGER IMMEDIATELY UPON DISCOVERY OF SUCH DISCREPANCIES.
  - ADJUST IRRIGATION HEADS TO PROVIDE OPTIMAL COVERAGE AND REDUCE OVERSPRAY ONTO SYNTHETIC TURF, FENCES, ETC.
  - PRECISE LOCATION OF IRRIGATION HEADS AND NOZZLE TYPES SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL MAKE CORRECTIONS AS DIRECTED BY THE ENGINEER TO ASSURE PROPER COVERAGE, INCLUDING HEAD AND NOZZLE CHANGES, AT NO ADDITIONAL COST TO THE NLMUSD.
  - ALL MAINLINE, LATERALS AND CONTROL WIRE CONDUIT UNDER PAVED AREAS SHALL BE SLEEVED. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES.
  - CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL IRRIGATION COMPONENTS SUCH AS, BUT NOT LIMITED TO VALVES, PIPING, WIRING, HEADS, ETC. PRIOR TO START CONSTRUCTION.
  - PROTECT IN PLACE ALL EXISTING UTILITIES AND FACILITIES ABOVE AND BELOW GROUND UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO CONSTRUCTION.



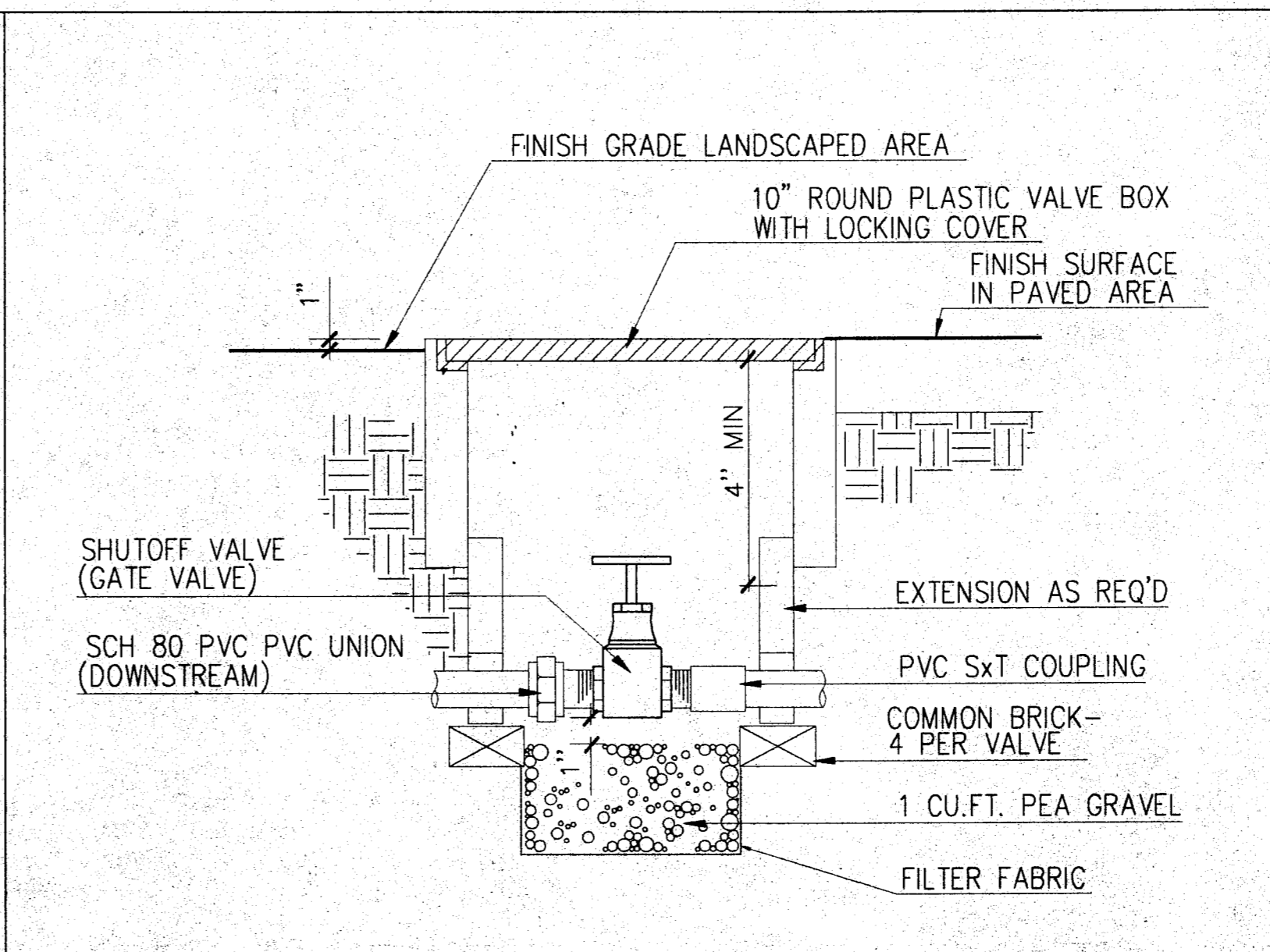
**1 POPUP ROTOR IN SYNTHETIC TURF NTS**



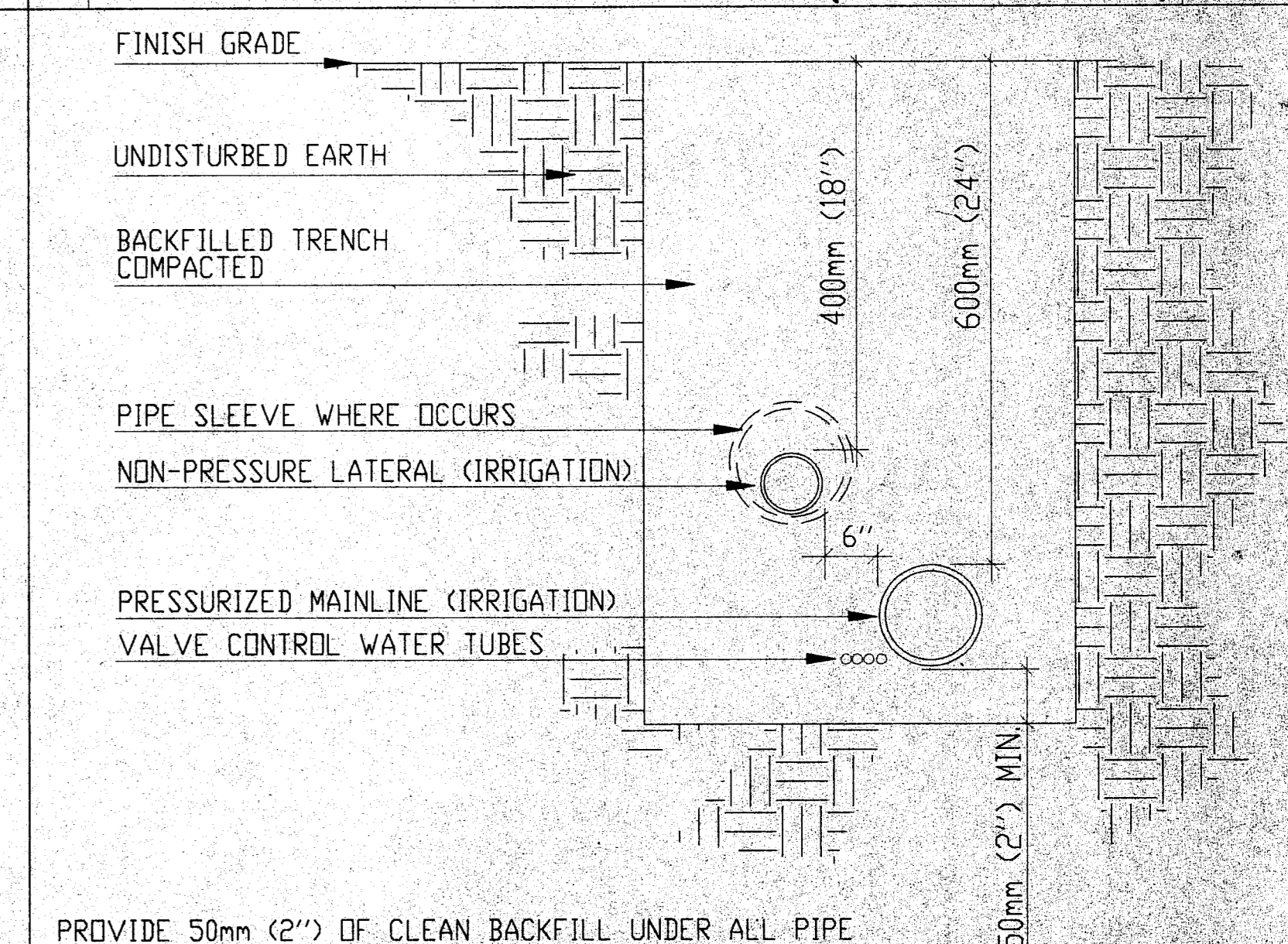
**2 REMOTE CONTROL VALVE (HYDRAULIC) NTS**



**3 QUICK COUPLER VALVE NTS 4**



**SHUTOFF VALVE NTS 5**



**TRENCHING IN FIELD AREA NTS**

**UNDERGROUND SERVICE ALERT**  
 CALL BEFORE YOU DIG  
 CALL TOLL FREE  
 1-800-422-4133  
 TWO WORKING DAYS BEFORE YOU DIG

**REVISIONS**

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**WILLDAN** 27042 Towne Centre Drive, Suite 270  
 Fountain Ranch, California 92610  
 Serving Public Agencies 949/470-8840 fax 949/770-9041

PREPARED UNDER THE SUPERVISION OF  
  
 JOHN HIDALGO R.L.A. 3551 4/30/04

**SCALE:** AS SHOWN

DATE	BY
MARCH 2004	A.A. S.M., C.M., J.T.
MARCH 2004	J.T.
MARCH 2004	K.T.

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
 NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT FACILITIES SERVICES DIVISION  
 12831 PIONEER BOULEVARD  
 NORWALK, CALIFORNIA 90650

APPROVED  
  
 LES LEAMY DIRECTOR OF CONSTRUCTION, MAINTENANCE, AND OPERATIONS

**NORWALK-LA MIRADA UNIFIED SCHOOL DISTRICT**  
 LA MIRADA STADIUM  
 SYNTHETIC TURF COOLING SYSTEM

SHEET L-3 OF 10  
 DWG. NO.

DGN:SPC:\j\11533\LaMiradaHS\plans\landscape\l-3.dwg