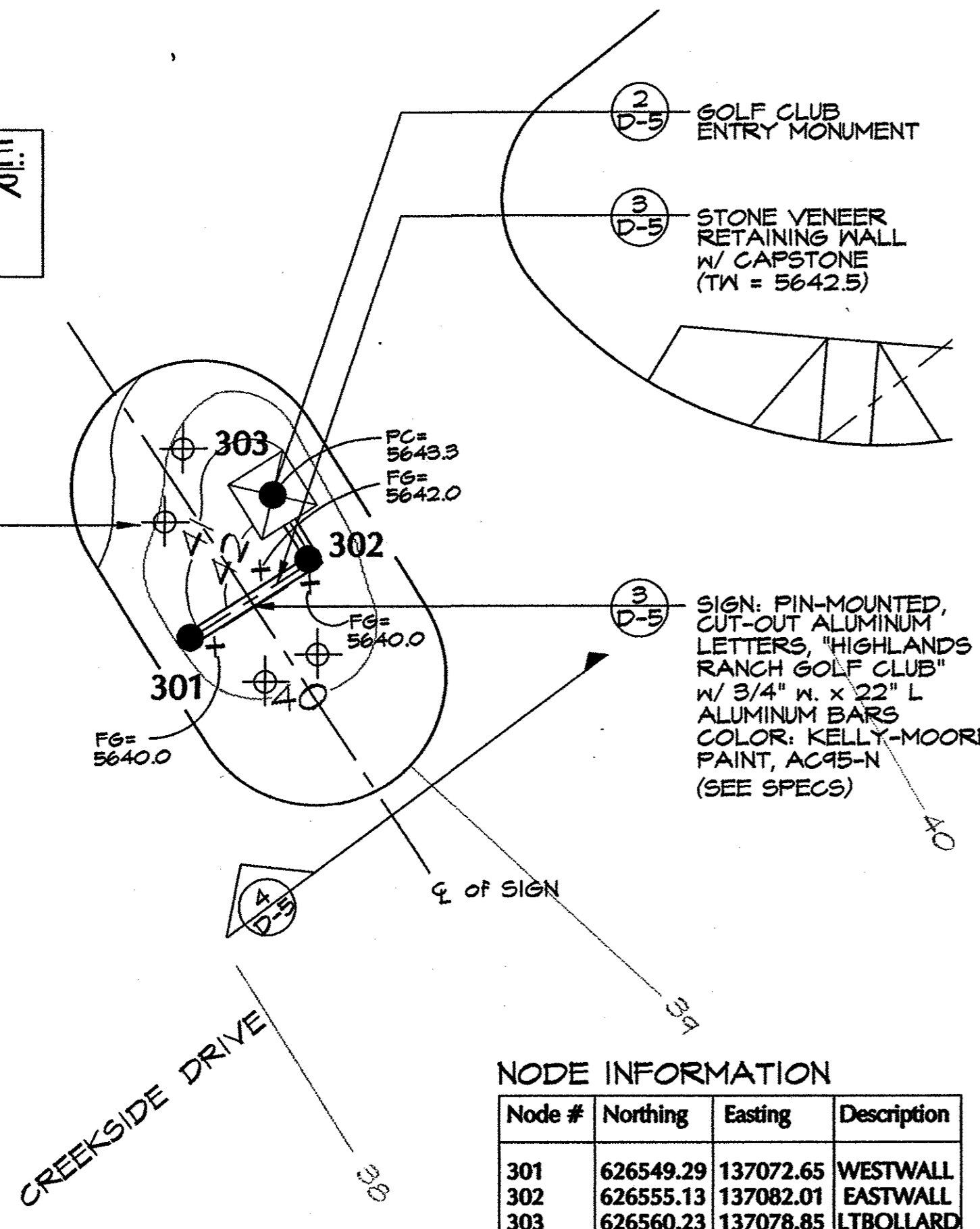


ADD/ALTERNATE:  
FOR DRILLED PIER  
LOCATIONS, SEE  
SHEET LG-3.

LANDSCAPE UPLIGHTS  
(SEE ELECTRICAL PLAN)  
(TYPICAL)



**NODE INFORMATION**

Node #	Northing	Eastng	Description
301	626549.29	137072.65	WESTWALL
302	626555.13	137082.01	EASTWALL
303	626560.23	137078.85	LTBOLLARD

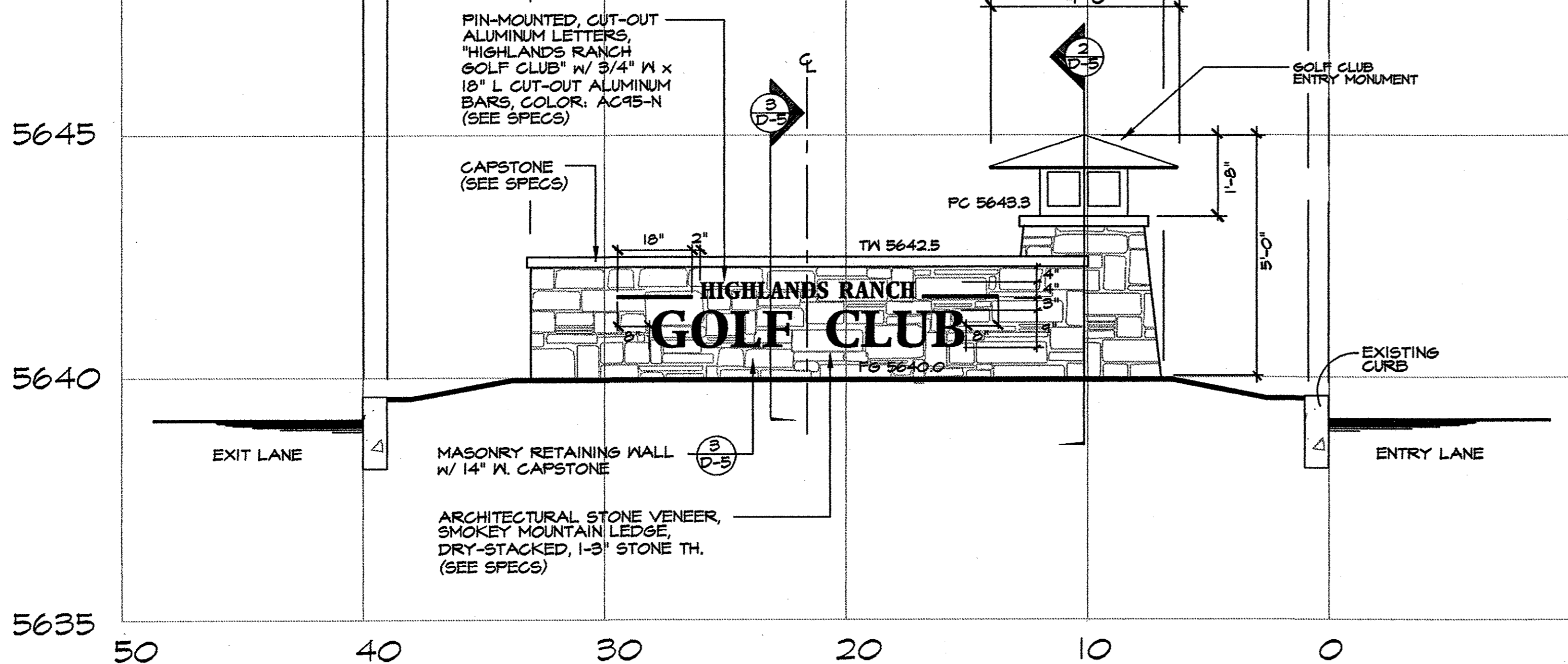
ENLARGEMENT PLAN  
GOLF CLUB ENTRY MONUMENT LAYOUT  
SCALE: 1"=10'  
PLAN

NOTE:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & PRODUCT SAMPLES TO OWNER'S REP. FOR REVIEW & APPROVAL PRIOR TO FABRICATION FOR THE FOLLOWING:

- a. PIN-MOUNTED ALUMINUM LETTERS
- b. ARCHITECTURAL STONE VENEER
- c. CAPSTONE

(SEE SPECS)



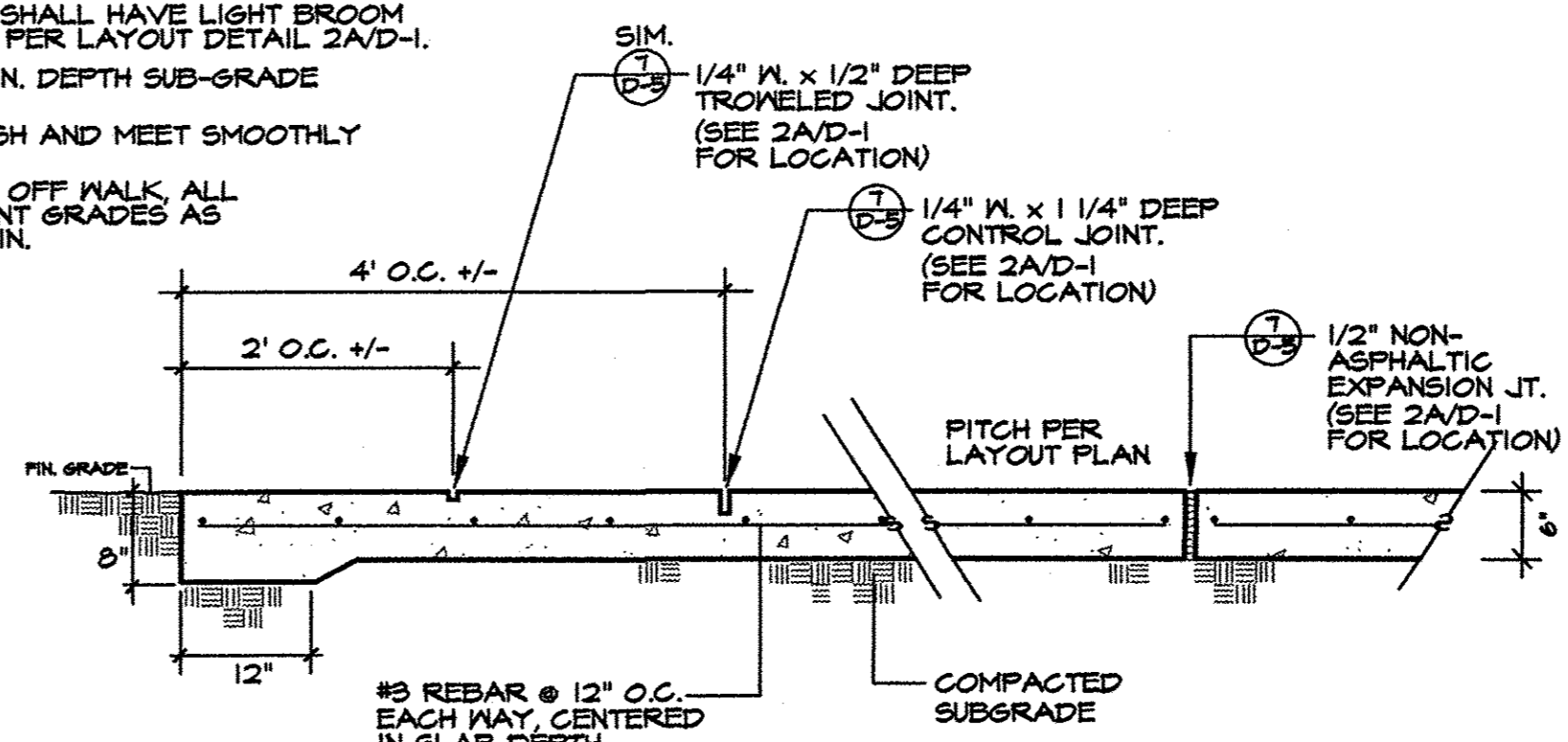
4 GOLF CLUB ENTRY MONUMENT ELEVATION  
SCALE: 1/2"=1'-0"  
ELEVATION

ADD/ALTERNATE: SEE DETAIL 6/D-5  
AND GENERAL NOTES ON SHEET D-5.

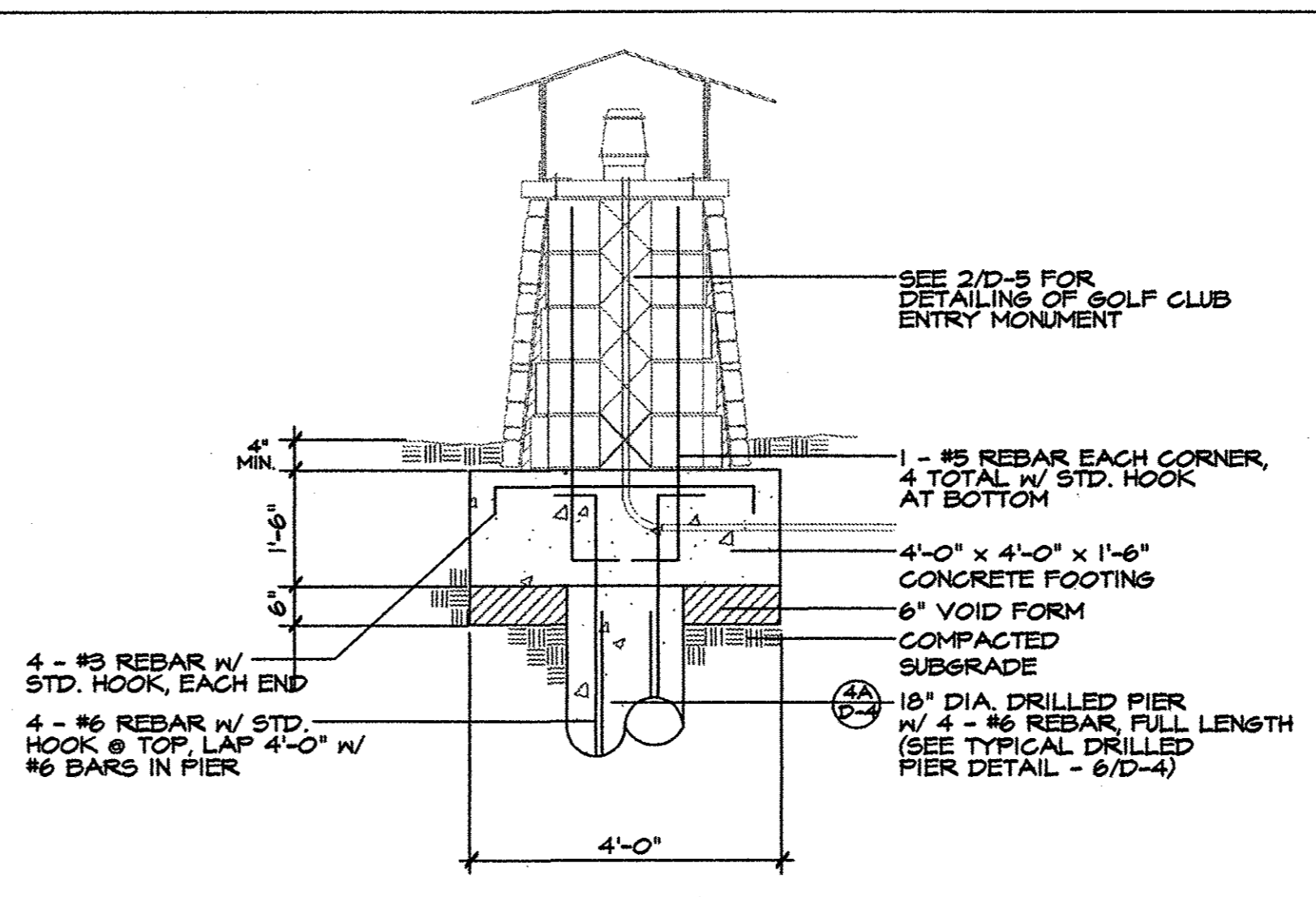
2 GOLF CLUB ENTRY MONUMENT  
SCALE: 1/2"=1'-0"  
ELEVATION

PAVEMENT NOTES:

1. CONCRETE PLAZA SURFACES SHALL HAVE LIGHT BROOM BROOM FINISH, DIRECTION AS PER LAYOUT DETAIL 2A/D-1.
2. SCARIFY AND COMPACT 8" MIN. DEPTH SUB-GRADE TO 45%.
3. ALL SURFACES SHALL BE FLUSH AND MEET SMOOTHLY AND EVENLY.
4. PROVIDE POSITIVE DRAINAGE OFF WALKS ALL LOCATIONS. ADJUST ADJACENT GRADES AS REQUIRED TO PROPERLY DRAIN.

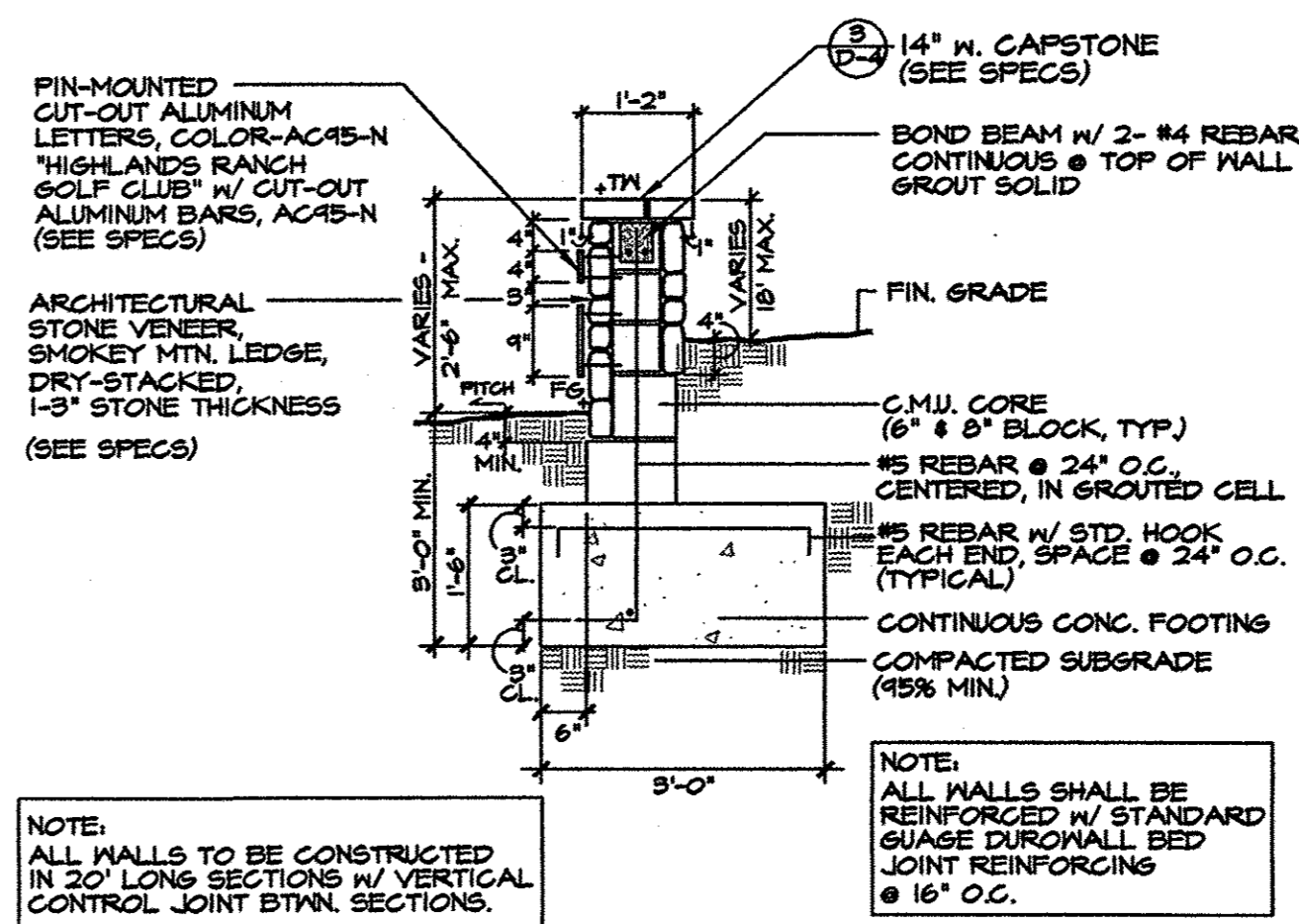


5 POSTAL CENTER:  
CONC. PLAZA PAVEMENT DETAIL  
SCALE: 3/4"=1'-0"  
SECTION



6 ADD/ALTERNATE:  
GOLF CLUB ENTRY MONUMENT  
W/ DRILLED PIERS  
SCALE: 1/2"=1'-0"  
ELEVATION

KEY:  
FG = FINISH GRADE SPOT ELEVATION  
PC = TOP OF PLASTER SPOT ELEVATION  
TM = TOP OF WALL SPOT ELEVATION



ADD/ALTERNATE: SEE DETAIL 8/D-4  
AND GENERAL NOTES ON SHEET D-5.

3 GOLF CLUB ENTRY MONUMENT  
RETAINING WALL DETAIL  
SCALE: 1/2"=1'-0"  
SECTION

ADD/ALTERNATE:  
GENERAL NOTES FOR DRILLED PIERS:

FOUNDATION GENERAL NOTES

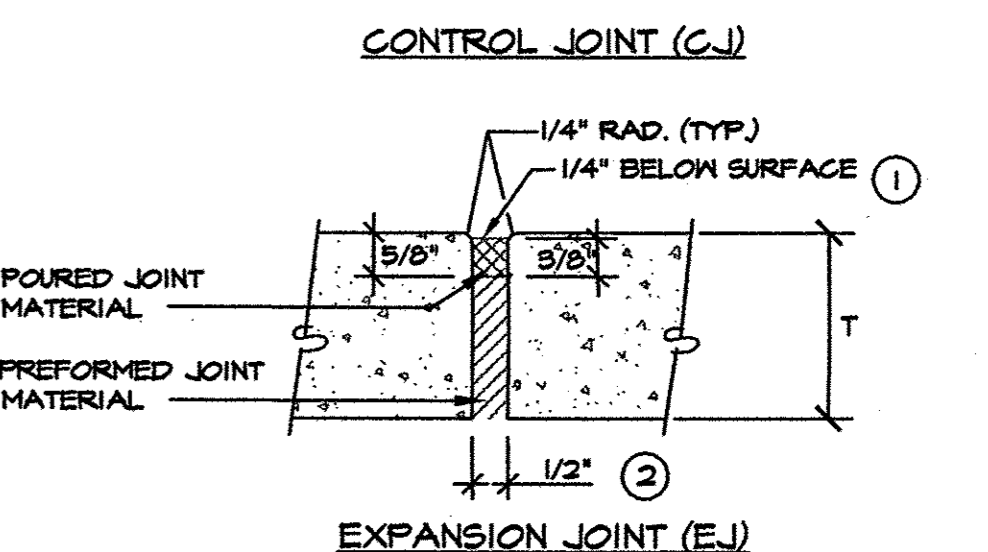
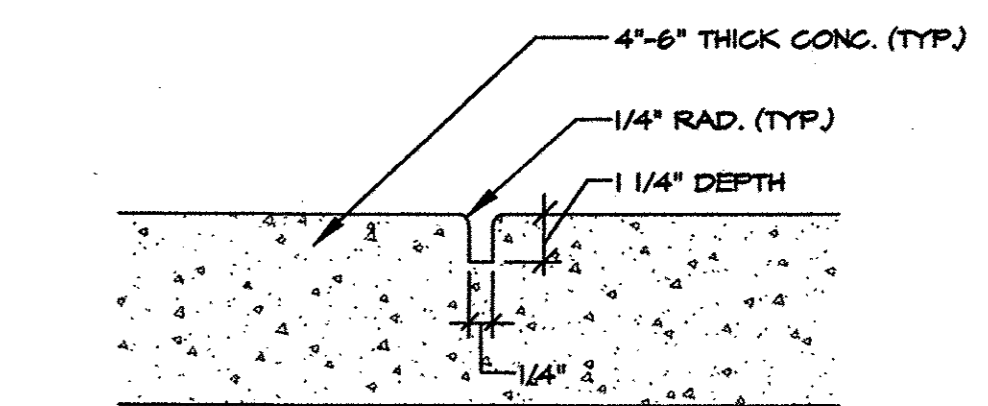
1. See Sols Report number 27,258 prepared by CIL/Thompson, Inc. 1971 West 12th Avenue, Denver, CO 80204, for additional information.
2. If site conditions found at site vary from those indicated on the drawings, the Engineer is to be notified so he may adjust foundation to meet field conditions.
3. Assumed soil properties for use with drilled pier:  
Maximum end bearing = 30,000 psf.  
Maximum skin friction in bedrock formation = 3000 psf.
4. The center of drilled pier shall not deviate from the required position by more than 1/2" and drilled pier shall not be out of plumb by more than 1 to 100.
5. Concrete shall be placed as soon as possible after completion of drilled pier excavation, but not until required inspection has been made and Sols Engineer's approval obtained.
6. All drilled pier excavations shall be clean and dry before placing concrete, unless special provisions for casing of piers are approved by Sols Engineer.

CONCRETE GENERAL NOTES

1. Material and workmanship shall be in accordance with the requirements of "Building Code Requirements for Reinforced Concrete" (ACI 318, latest edition).
2. All concrete shall have a minimum compressive strength of 3000 psi at the age of 28 days.
3. Reinforcing bars shall be deformed bars and shall conform to ASTM A-615, except as noted. All stirrups and column ties shall conform to ASTM A-615, Grade 40.
4. Bar bending details and placing drawings shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315, latest edition).
5. Provide bar supports and spacers to place all bars in proper location, and are adequately at intersections to hold bars firmly in position while concrete is placed.
6. Continuous bars shall lap 36 diameters where spliced, but not less than 12 inches, unless otherwise shown.
7. Dowels shall project 36 diameters unless otherwise shown.
8. Weld fabric steel conforming to ASTM A-185 and shall lap a minimum of one full mesh at side and end laps and shall be securely wired together, unless otherwise shown.
9. Concrete cover for reinforcement (unless otherwise noted):  
A. Concrete poured against earth ..... 3"  
B. Concrete poured in forms but exposed to weather or earth  
(1) #3 bars or smaller ..... 1 1/2"  
(2) Bars larger than #3 ..... 2"  
C. Columns, girders and basement ties  
(and stirrups) ..... 1 1/2"  
D. Slabs and walls ..... 1 1/2"  
10. All cement used in foundations shall be "Modified" Type II.

MASONRY GENERAL NOTES

1. All masonry block units shall conform to ASTM C90. Masonry block units shall be grade II-1.
2. Mortar for all masonry walls shall conform to ASTM C270, Type S.
3. Grout shall be proportioned by volume and shall have sufficient water added to produce consistency for pouring without segregation. Grout shall be composed of one part portland cement, 2 1/4 to 3 parts sand, and 1 to 2 parts pea gravel. Grout shall attain a minimum compressive strength of 3000 psi at 28 days.
4. All masonry shall develop 1500 psi ultimate compressive strength (f'm) in 28 days.
5. Reinforcing steel shall be deformed bars conforming to ASTM A-615, Grade 60. Reinforcing steel shall be lapped 48 bar diameters, minimum, when applied. When splices fall within center third of wall height between floors, bars shall be lapped 72 bar diameters.
6. Reinforcing steel shall be in place and inspected before pouring starts. All debris and projecting mortar shall be cleaned out before pouring grout. (Closest openings shall be provided at the bottom of all cells to be filled at each pour of grout where such grout pour is in excess of five feet in height). Rebar positioners shall be used at top and bottom of reinforcing bars and at spacings not to exceed 10'-0" when grout pour is in excess of five feet in height.
7. When a foundation does not line up with the vertical core to be reinforced, it shall not be bent over, but shall be grouted into a core in direct vertical alignment, even though it is an adjacent cell to the vertical wall reinforcing. Vertical cells to be filled shall have a vertical alignment to maintain a continuous unobstructed cell area not less than 3' x 4'.
8. Cells containing reinforcement shall be solidly filled with grout in lifts not to exceed 6'-0" and pours not to exceed 24'-0". Pours shall be stopped 1/2" below the top of a course to form a key at pour joints. Grout shall be consolidated at time of pouring by mechanical vibration and then reconsolidated by again vibrating within 5 to 8 minutes of initial consolidation.
9. Where other reinforcing is not required by the drawings, provide 1-#4 bar at all sides of, and adjacent to, every opening which exceed 24" in either direction. Extend bars 24" beyond each side of the opening. Where possible provide a U-block immediately above and below the opening and grout the reinforcing in place.
10. Stone veneer shall be anchored to CMU wall with sheet metal, corrosion resistant ties. Ties shall have a minimum size of No. 22 gage by 3/4", or if a wire, shall be a minimum of No. 9 gage. Anchor ties shall be spaced so as to support not more than 2 square feet of wall area but not more than 24 inches on center horizontally.
11. Shop Drawings. Contractor shall submit shop drawings for steel reinforcing showing each piece, its size, length and location. Include wall elevation or section showing proposed splice locations and lap lengths.
12. Testing. The compressive strength of masonry is to be verified by prism tests in accordance with Section 2405(c)2 of the Uniform Building Code.



1. NO JOINT MATERIAL ABOVE SLAB LEVEL WILL BE ALLOWED.
2. NO EXPANSION JOINTS DEEPER THAN 3/8" WILL BE ALLOWED.
3. PROVIDE ALL CJS AND EJS AS SHOWN DRAWINGS. ANY ADDITIONAL JOINTS REQUIRED TO AVOID CRACKING OF PAVING SURFACE TO BE PROVIDED WITH PRIOR APPROVAL BY OWNER'S REPRESENTATIVE.

7 EXPANSION & CONTROL  
JOINT DETAILS  
SCALE: 1/2"=1'-0"  
SECTION

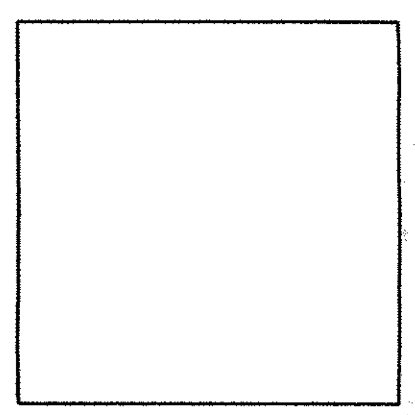
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HIGHLANDS RANCH  
GOLF CLUB



SCALE: AS SHOWN  
DRAWN BY: SW, FS  
CHECKED BY: MAB  
PROJECT NUMBER: 97098-41  
ISSUE DATE: April 21, 1998  
REVISIONS: June 4, 1998  
July 24, 1998  
August 26, 1998

SHEET TITLE:  
HARDSCAPE  
SITE DETAILS

SHEET NUMBER:  
D-5