

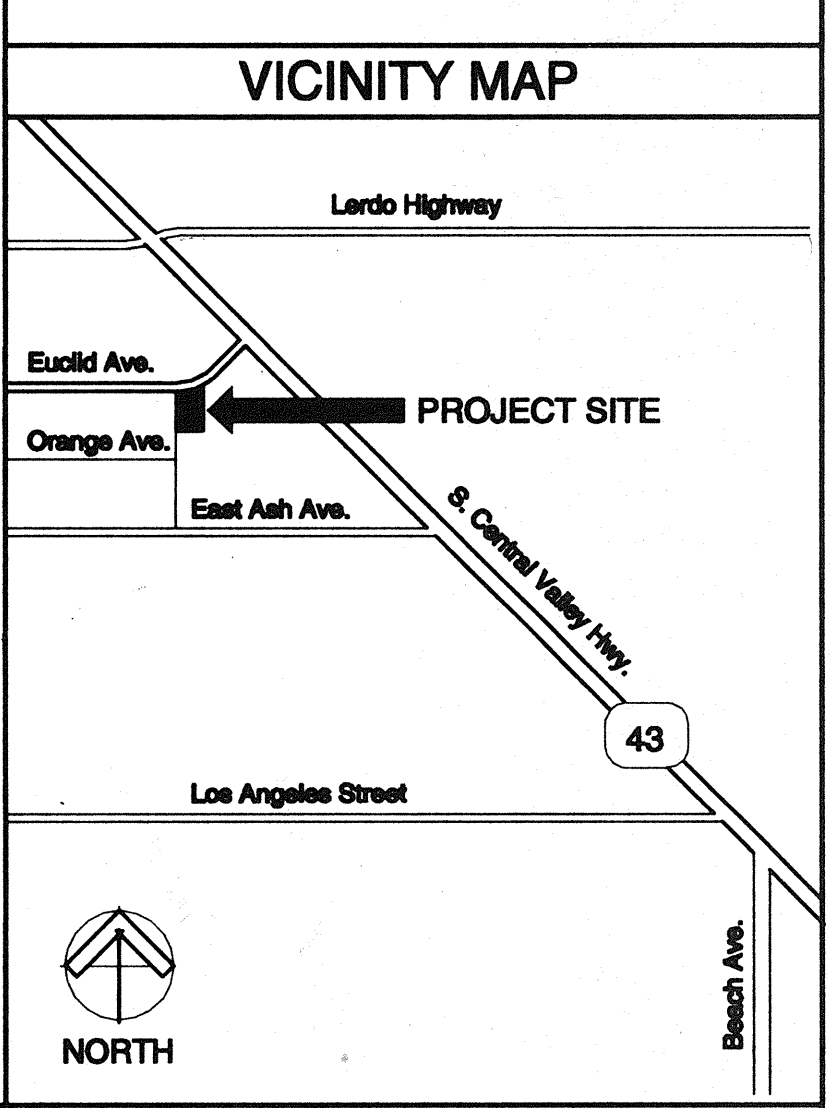
SHEET INDEX		PROJECT CONSULTANTS
TS	TITLE SHEET	CIVIL ENGINEERING DEE JASPAR AND ASSOCIATES 3701 PEGASUS DRIVE, SUITE 121 BAKERSFIELD, CALIFORNIA, 93308 PHONE: (661) 393-4796 FAX No.: (661) 393-4799
CIVIL DRAWINGS		
C1	COVER SHEET	
C2	GRADING PLAN	
C3	GRADING NOTES	
C4	STREET PLANS	STRUCTURAL ENGINEERING JOSEPH EIRBARNE STRUCTURAL ENGINEER 2020 EYE STREET, SUITE 201 BAKERSFIELD, CALIFORNIA, 93301 PHONE: (661) 392-1124 FAX No.: (661) 392-1172
C5	STREET NOTES + DETAILS	
ARCHITECTURAL		
A1	SITE PLAN	
A2	FLOOR PLAN	
A3	ROOF PLAN	MECHANICAL ENGINEERING MECHANICAL DESIGN CONCEPTS 428 TRUXTON AVENUE BAKERSFIELD, CALIFORNIA, 93301 PHONE: (661) 326-1313 FAX No.: (661) 326-1089
A4	BUILDING SECTIONS	
A5	PARTIAL SECTIONS	
A6	EXTERIOR ELEVATIONS	
A7	SCHEDULES	
A8	INTERIOR ELEVATIONS	ELECTRICAL ENGINEERING PETER KWAN ENGINEERING 320 WEST BEDFORD, SUITE 20 FRESNO, CALIFORNIA, 93711 PHONE: (559) 432-1147 FAX No.: (559) 432-1625
A9	INTERIOR ELEVATIONS	
A10	INTERIOR ELEVATIONS	
A11	INTERIOR ELEVATIONS	
A12	REFLECTED CEILING PLAN	
A13	ARCHITECTURAL DETAILS	LANDSCAPE ARCHITECT LANDSCAPE ARCHITECTURE 3604 LORDSBURG COURT BAKERSFIELD, CALIFORNIA, 93309 PHONE: (661) 397-8661 FAX No.: (661) 397-8426
STRUCTURAL		
S1	FOUNDATION PLAN	
S2	ROOF FRAMING PLAN	
S3	STRUCTURAL DETAILS	
S4	PARTIAL SECTIONS DETAILS	
S5	STRUCTURAL DETAILS	
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S5	STRUCTURAL DETAILS	<table><tr><td></td><td>ROOM NUMBER</td></tr><tr><td></td><td>BUILDING SECTION</td></tr><tr><td></td><td>WALL SECTION</td></tr><tr><td></td><td>DETAIL KEY</td></tr><tr><td></td><td>INTERIOR ELEVATION KEY</td></tr><tr><td></td><td>ELEVATION DATUM</td></tr><tr><td></td><td>COLUMN LINES</td></tr><tr><td></td><td>DOOR KEY</td></tr><tr><td></td><td>WINDOW KEY</td></tr><tr><td></td><td>EXISTING CONTOURS</td></tr><tr><td></td><td>NEW FINISH CONTOURS</td></tr><tr><td></td><td>FINISH FLOOR ELEVATION</td></tr><tr><td></td><td>FINISH PAD</td></tr><tr><td></td><td>TOP OF CURB</td></tr><tr><td></td><td>TOP OF SHEATHING</td></tr><tr><td></td><td>TOP OF PARAPET</td></tr><tr><td></td><td>TOP OF AC PAVING</td></tr><tr><td></td><td>PROPERTY LINE</td></tr><tr><td></td><td>ACOUSTIC TILE OR BOARD</td></tr><tr><td></td><td>CERAMIC TILE</td></tr><tr><td></td><td>CONCRETE</td></tr><tr><td></td><td>EARTH</td></tr><tr><td></td><td>GLAZING</td></tr><tr><td></td><td>GYPSTUM BOARD/BASE</td></tr><tr><td></td><td>BATT INSULATION</td></tr><tr><td></td><td>RIGID INSULATION</td></tr><tr><td></td><td>SAND</td></tr><tr><td></td><td>METAL</td></tr><tr><td></td><td>MORTAR</td></tr></table>		ROOM NUMBER		BUILDING SECTION		WALL SECTION		DETAIL KEY		INTERIOR ELEVATION KEY		ELEVATION DATUM		COLUMN LINES		DOOR KEY		WINDOW KEY		EXISTING CONTOURS		NEW FINISH CONTOURS		FINISH FLOOR ELEVATION		FINISH PAD		TOP OF CURB		TOP OF SHEATHING		TOP OF PARAPET		TOP OF AC PAVING		PROPERTY LINE		ACOUSTIC TILE OR BOARD		CERAMIC TILE		CONCRETE		EARTH		GLAZING		GYPSTUM BOARD/BASE		BATT INSULATION		RIGID INSULATION		SAND		METAL		MORTAR
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E5	SYMBOLS, DETAILS, TITLE 24, FIXTURE SCHEDULE																																																											
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A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

COMMUNITY ACTION PARTNERSHIP OF KERN EUCLID AVENUE SHAFTER, CALIFORNIA

DESCRIPTIONS OF ALTERNATIVE BIDS	
REFER TO PROJECT MANUAL - SPECIFICATION SECTION 01030 - ALTERNATIVES FOR ADDITIONAL INFORMATION	
DEDUCTIVE ALTERNATE No. 1	
REFER TO SHEET A1 SITE PLAN: Eliminate Steel Trellis Structure, associated foundations and electrical lighting in their entirety. Concrete patio and DMU privacy wall shall remain as indicated.	
DEDUCTIVE ALTERNATE No. 2	
REFER TO SPECIFICATIONS SECTION 11480 ATHLETIC EQUIPMENT: Eliminate all athletic equipment specified from contract except for the cast-in-slab volleyball sleeves. All concealed structural supports and/or backing required for the future installation of specified equipment shall be provided and installed. As-Built drawings recording the size and type of backing materials provided and their dimensioned locations shall be provided to the Owner.	
DEDUCTIVE ALTERNATE No.3	
REFER TO SHEET A1 SITE PLAN: Eliminate concrete patio slab, DMU privacy wall and associated foundations. Refer to Detail 2, Sheet A1 for revised site improvement requirements if this alternative is accepted.	
DEDUCTIVE ALTERNATE No. 4	
REFER TO SHEET L1 LANDSCAPE LAYOUT: Reduce all tree sizes to 15 gallon, all shrub sizes shall be 1 gallon and all specified groundcover shall be spaced at 12" O/C. Turf shall be hydro-seeded rescue mix in lieu of sod as specified.	



GENERAL NOTES	
THE INFORMATION CONTAINED IN THIS SPACE IS PROVIDED TO AID THE REVIEWING AGENCY IN CHECKING CODE AND/OR ORDINANCE COMPLIANCE. THE CONTRACTOR SHALL REFER TO THE DRAWINGS AND SPECIFICATIONS FOR SPECIFIC INFORMATION. CODE REFERENCES ARE FROM THE 1998 EDITION OF THE CALIFORNIA BUILDING CODE.	
1. ALL DOOR HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODES CHAPTER 1003.3.1.8	
2. STOREFRONT DOORS SHALL HAVE 10" MINIMUM BOTTOM RAIL	
3. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8 1/2 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.	
4. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL EFFORT PER U.B.C. CHAPTER 1003.3.1.8	
5. EXITS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED, WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE (1) FOOT CANDLE AT FLOOR LEVEL PER U.B.C CHAPTER 1003.2.9	
6. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING A HAZARDOUS AREA OR WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE.	
7. INTERIOR FINISHES SHALL COMPLY WITH CHAPTER 8 OF THE 1998 CBC	
8. GYPSUM BOARD CEILINGS IN CONJUNCTION WITH FIRE RATED ASSEMBLIES SHALL BE SUSPENDED AT INTERVALS NOT EXCEEDING 16" O.C.	
9. EXIT SIGNS SHALL BE PROVIDED PER CHAPTER 1003.2.8	
10. WIDTH & HEIGHT OF REQUIRED EXIT DOORWAYS TO COMPLY WITH CHAPTER 1003.3.1.3g	
11. THE ARCHITECT SHALL PROVIDE STRUCTURAL OBSERVATION DURING CONSTRUCTION PER SECTION 1702.	

PROJET INFORMATION	
OCCUPANCY GROUPS:	A-2.1 GYMNASIUM A-3 RECREATION WING B FUTURE KITCHEN S-1 STORAGE ROOMS
TYPE OF CONSTRUCTION:	TYPE V - ONE HOUR
NOTE: ENTIRE BUILDING FIRE SPRINKLED IN LIEU OF ONE-HOUR CONSTRUCTION PER CBC SECTION 508	
NUMBER OF STORIES:	ONE
CALCULATED AREAS:	A-2.1 6,672 SF A-3: 3,549 SF B 326 SF S-1 365 SF GROSS BUILDING AREA: 10,912 SF
ALLOWABLE BUILDING AREA CALCULATIONS	
BASIC ALLOWABLE AREAS:	A2.1 & A-3 10,500 SF B & S-1 14,000 SF
ALLOWABLE AREA INCREASES:	
PER CBC SECTION 505.1.3 (50% INCREASE ALLOWED DUE TO SEPARATION ON TWO SIDES)	A-2.1 & A-3 10,500 SF X 1.5 = 15,750 SF B & S-1 14,000 SF X 1.5 = 21,000 SF
MIXED OCCUPANCY CALCULATIONS:	
PER CBC SECTION 504.3	A-2.1, A-3 10,221 SF/15,750 SF = 0.65 B, S-1 691 SF/21,000 SF = 0.04 TOTAL = 0.69
0.69 < 1.00 THEREFORE BUILDING COMPLIES WITH CBC SECTION 504.3 THE ACTUAL FLOOR AREA IS LESS THAN THE CODE ALLOWED MAXIMUM	
REQUIRED OCCUPANCY SEPARATIONS:	
SEPARATION REQUIRED BETWEEN A-2.1 AND S-1:	1-HOUR SEPARATION REQUIRED
SEPARATION REQUIRED BETWEEN A-2.1 AND A-3:	NO SEPARATION REQUIRED
SEPARATION REQUIRED BETWEEN A-3 AND B:	NO SEPARATION REQUIRED
SEPARATION REQUIRED BETWEEN S-1 AND A-3, B:	NO SEPARATION REQUIRED

KSA GROUP ARCHITECTS

4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376

Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE SHAFTER, CA.

COMMUNITY ACTION PARTNERSHIP OF KERN

Every reasonable effort has been made in the preparation of these documents to ascertain and comply with all applicable codes and ordinances. However, in that these requirements are subject to change and interpretation, no warranty is given or implied relative to these documents level of compliance. Furthermore, nothing shown in or omitted from these documents shall relieve the contractor from full compliance with any such codes and ordinances.

Before commencement of work, these documents shall be reviewed by the contractor for any discrepancies or conflicts in dimensions, notes, or references. Any items that become apparent during this review process or during construction shall be referred immediately to the Architect for clarification. Any work proceeding without such notification shall become the responsibility of the contractor.

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No.	Description	Date
Revisions		
TITLE SHEET		
SHEET INDEX, ABBREVIATIONS, SYMBOLS, GENERAL NOTES + PROJECT INFORMATION		
Scale:	Job No:	Sheet No:
	2447.01	
Date:	08/16/2002	of TS sheets

COMMUNITY ACTION PARTNERSHIP

MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING
EUCLID AVENUE, SHAFER, CALIFORNIA
(POR N/2 SEC 15 28/25, COUNTY OF KERN STATE OF CALIFORNIA)

PLANS FOR THE CONSTRUCTION OF GRADING & STREET IMPROVEMENTS

OWNERS OF RECORD

KERN COUNTY ECONOMIC OPPORTUNITY CORP.
305 STINE ROAD
BAKERSFIELD CA 93309
PH (661) 835-5422

SHEET NUMBER INDEX

COVER SHEET	1 OF 5
GRADING PLAN	2 OF 5
GRADING NOTES	3 OF 5
STREET PLANS	4 OF 5
STREET NOTES	5 OF 5

BENCHMARK: 342.17

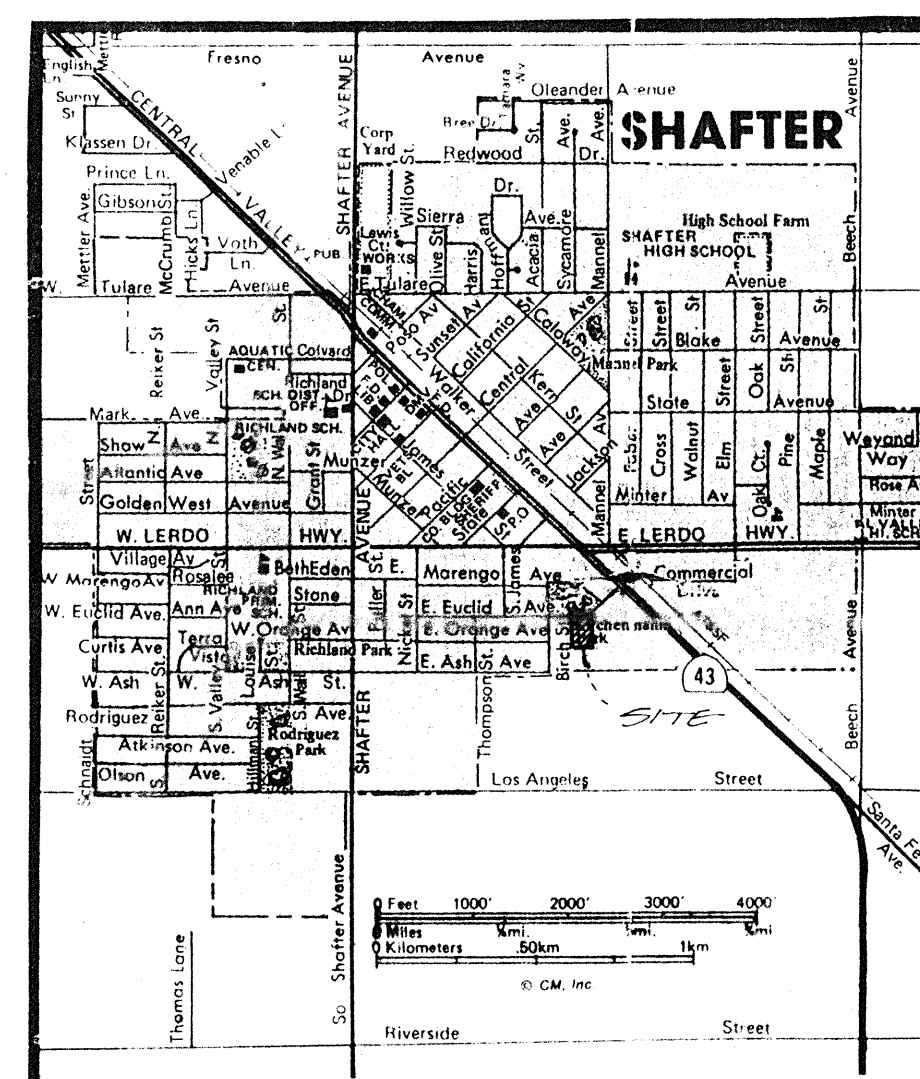
T.C. SO. END CURB RETURN
SW COR JAMES STREET
AND MARENGO AVE. (PER C.O.S.)

BENCHMARK SET: 342.14

T.C. SO. SIDE EUCLID AVE
330± FT EAST OF NE CURB
RETURN OF SE COR
BIRCH ST AND EUCLID AVE

MATERIAL QUANTITIES

- 185 LF CURB & GUTTER
- 925 FT² SIDEWALK DRIVE APPROACH
- 23 TONS ASPHALT CONCRETE (OFFSITE)
- 37 TONS AGGREGATE BASE (OFFSITE)
- 328 TONS ASPHALT CONCRETE (ONSITE)
- 470 TONS AGGREGATE BASE (ONSITE)



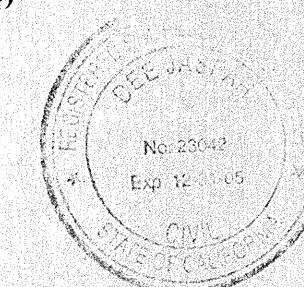
VICINITY MAP
(NTS)

ENGINEER'S CERTIFICATE:

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH CITY OF SHAFER ORDINANCES, STANDARDS, AND DESIGN CRITERIA, AND THAT THEY INCLUDE ALL IMPROVEMENT REQUIREMENTS OF THE ADVISORY AGENCY OR OTHER REVIEW BOARD.

I AM RESPONSIBLE FOR ALL CALCULATIONS AND DRAWINGS ON THESE PLANS AND ANY ERRORS, OMISSIONS, OR VIOLATIONS OF THOSE ORDINANCES, STANDARDS, AND DESIGN CRITERIA SHALL BE CORRECTED DURING CONSTRUCTION.

DEE JASPAR RCE 23042 (EXP. 12/31/05)



LEGEND

- MONUMENT OF RECORD
- F/L FLOWLINE
- E/P EDGE PAVEMENT
- T/P TOP PAVEMENT
- T/C TOP CONC / TOP CURB

REVISION	BY
2001-02	JW

DEE JASPAR & ASSOCIATES, INC.
ENGINEERS
3001 REGAN DRIVE, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE (805) 388-4788
FAX (805) 388-4789

COMMUNITY ACTION PARTNERSHIP
MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING
EUCLID AVENUE, SHAFER, CALIFORNIA

COVER SHEET

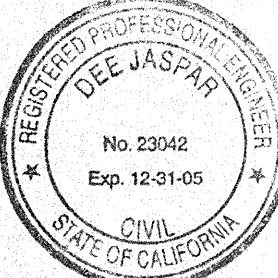
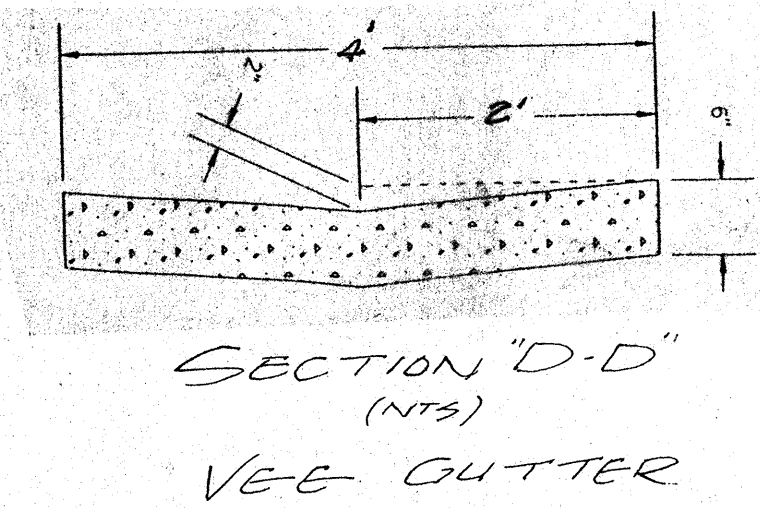
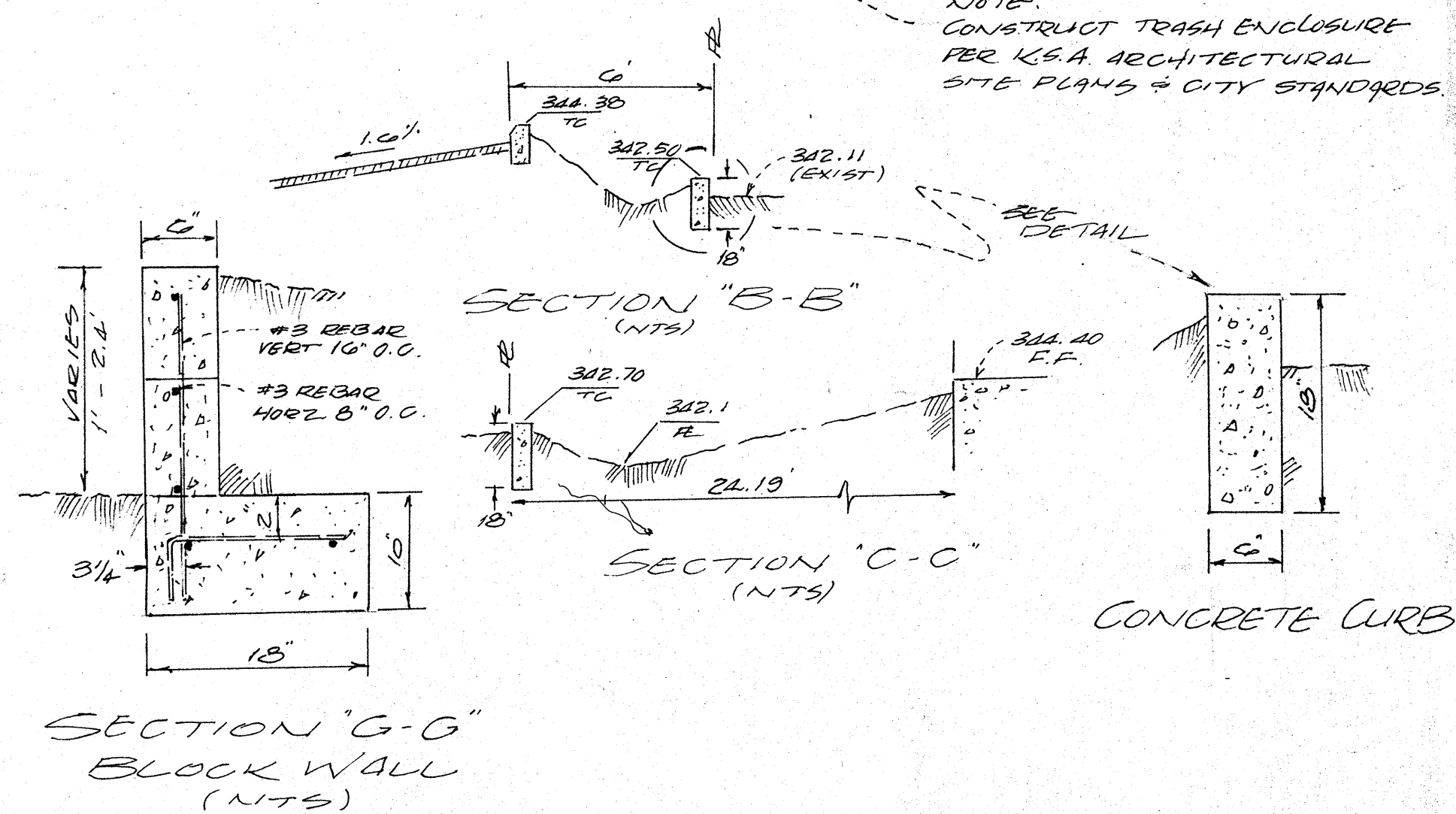
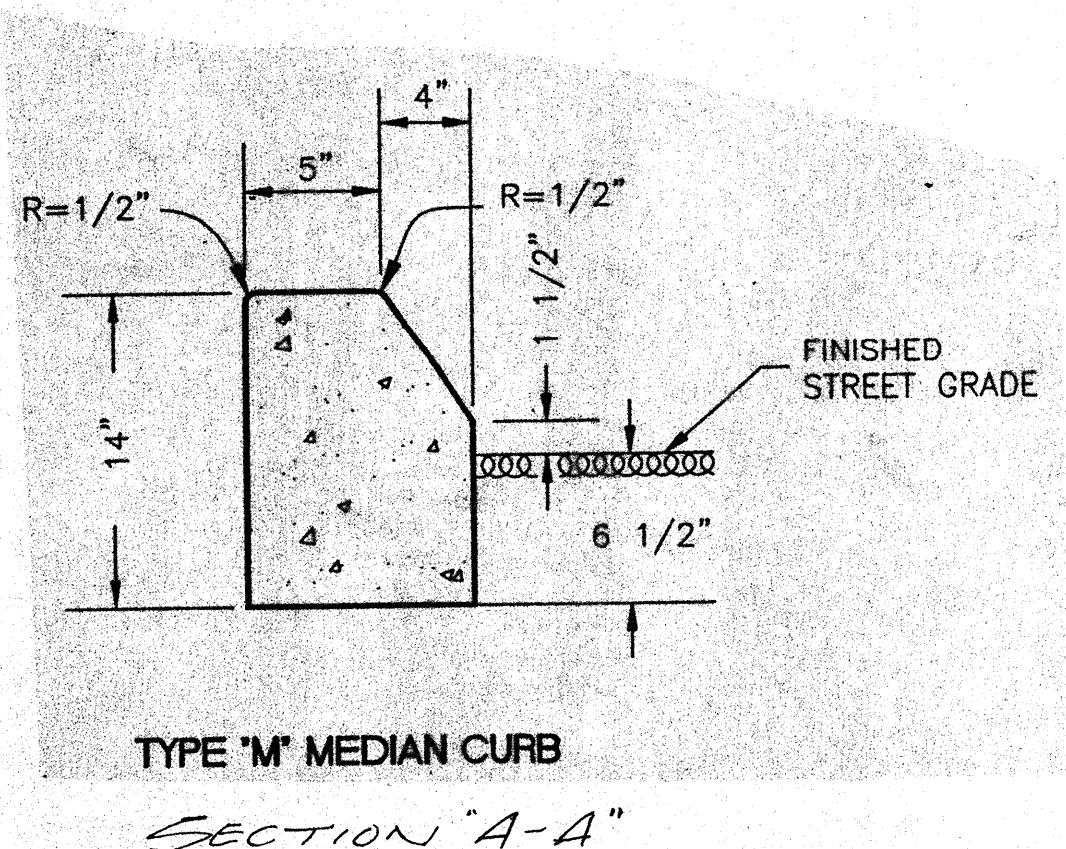
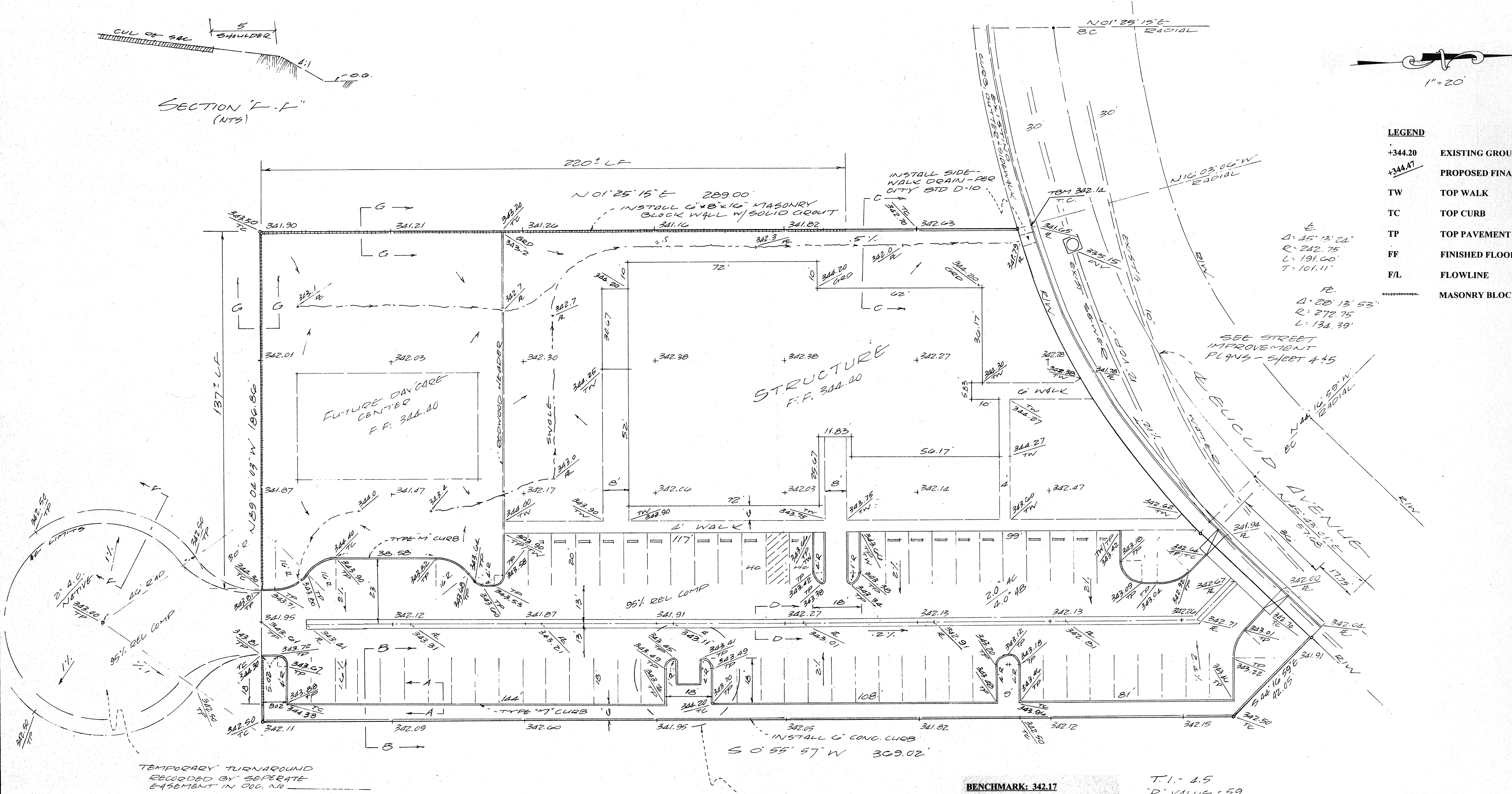
DRAWN
CHECKED
DATE 20 3/10/02
SCALE
FILE 05-223
JOB NO. K0900102
SHEET 1 OF 5
OF SHEETS

REVISION	BY
30 SEP02	JW

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
3701 PEGASUS DRIVE, SUITE 201
BARTSBURG, CALIFORNIA 95826
PHONE 916 333-4799
FAX 916 333-4798

COMMUNITY ACTION PARTNERSHIP
MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING
EUCLID AVENUE, SHAFER, CALIFORNIA
(FOR W/2 SEC 15 2825, COUNTY OF KERN STATE OF CALIFORNIA)

GRADING PLAN



DRAWN	
CHECKED	
DATE	26 JUL 02
SCALE	1"=20'
FILE	D5-243
JOB NO.	K0900102
SHEET	
2 OF 5	

Sec. 110-4 GENERAL NOTES

- General notes shall include all necessary notes to convey the intent of the City of Shafter Drainage & Grading Standards, the project at hand, and as directed by the City Engineer. They shall include, but not be limited to the following.
- 24 hour inspection notice - Prior to the start of any phase of construction, the Office of the City Engineer shall be given at least 24 hours notice, Phone (661)746-2065.
- Compaction test note - Compaction testing shall be the responsibility of the developer / subdivider / contractor. The number and location of required test shall be determined by the City Engineer.
- Contractor shall call Underground Service Alert (USA) and the City of Shafter Department of Public Works at least two (2) working days prior to the start of construction to mark the locations of existing utility lines.

Phone: USA - 1-800-642-2444
City of Shafter - 661-746-2065
- Contractor shall obtain all necessary permits before start of construction. A city encroachment permit shall be obtained from the Office of the City Engineer for all work to be performed in city right-of-way.
- The locations of existing utilities and underground pipelines shown on these plans are approximate only. The contractor shall determine the exact location of all existing utilities and underground pipelines before commencing work. Contractor assumes all liability for any and all damages to existing utilities occasioned by his failure to exactly locate, preserve, and protect any and all underground utilities and pipelines.
- The contractor shall remove and/or relocate all obstructions within the street right-of-way as directed by the City Engineer.
- Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including the safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; that the contractor shall defend, indemnify, and hold the owner, engineer, and the City of Shafter harmless from any and all liability arising from the sole negligence of the owner/engineer/City of Shafter.
- All construction work shall be performed in accordance with City of Shafter Standards, the State of California, Department of Transportation Standard Specifications, the State of California, Department of Transportation Standard Specifications, the recommendations contained in the preliminary report for the development, appendix Chapter 33 of the Uniform Building Code, and as directed by the City Engineer.
- All existing improvements that are removed, damaged, or undercut shall be repaired or replaced as directed by the City Engineer, at the contractor's expense.
- The Office of the City Engineer shall be notified 24 hours in advance of the placement of any fill material.
- Fill material shall be subject to the approval of the soils engineer.
- Contractor is responsible for the grading of lot pad areas to within 0.1' of the design elevations.
- Contractor shall terrace all pads when the elevation difference between pads is greater than 0.3', unless otherwise shown.
- All areas in the site on which structures are to be placed must be compacted to 90% relative density, for a minimum distance of 5' in all directions from the foundations of the structure.
- All fill material shall be moisture conditioned to at least 2% above optimum moisture and compacted to 90% relative density, as determined by test methods referenced in U.B.C. appendix Chapter 33, Section 3305, and so certified by tests and report from the soils engineer.
- The design engineer shall exercise sufficient supervisory control during grading operations to insure compliance with the plans, specifications, and code within his purview.
- The placement of fill shall be 6" maximum lifts, compacted with heavy compaction equipment approved by the City Engineer, unless specifically recommended otherwise in the preliminary soils report.
- Compaction in proposed pavement areas should be the same as for the building pads, and should extend to a minimum distance of 2' beyond the outside edges of pavements.
- All cut and fill slopes shall be steeper than 2 horizontal to 1 vertical.
- All fill areas to be cleared of all vegetation and other unsuitable material for a structural fill and the areas shall be scarified to a depth of 6", unless specifically noted otherwise in the preliminary soils report.
- All slopes in excess of three feet shall be prepared and maintained to control against erosion.
- Surface drainage to be 1% minimum, except as waived by City Engineer.
- Grading work shall be supervised as engineered grading in accordance with Chapter 33 of the U.B.C.
- During grading, reasonable searching should be performed for concealed subsurface obstructions. All abandoned subsurface obstructions shall be removed. If the terminus of any abandoned piping is outside the project limits, the piping should be removed within the project and properly capped at the project boundary.
- Dust Control: It shall be the contractor's responsibility to prevent a dust nuisance originating from the site of work as a result of his operations during the effective period of this contract. Preventative measures to be taken by the contractor shall include but not be limited to the following:
 - Water shall be applied to all unpaved areas as required to prevent the surfaces from becoming dry enough to permit dust formation.
 - Paved surfaces over which vehicular traffic is permitted to travel shall be kept free of dirt.
- Contractor to coordinate with the inspector and developer, the location of the borrow or spoils prior to beginning construction.
- All traffic control plans shall be approved by the City of Shafter prior to work being performed in City R/W.

GRADING NOTES AND CONDITIONS

- ALL GRADING AND SITE PREPARATIONS SHALL CONFORM TO THIS PLAN AND TO THE REQUIREMENTS OF THE COUNTY OF KERN AND ALL LOCAL AGENCIES AND TO THE RECOMMENDATIONS CONTAINED IN THAT CERTAIN GEOTECHNICAL ENGINEERING INVESTIGATION PREPARED BY KRAZAN & ASSOCIATES, INC, 4231 FORSTER AVENUE, BAKERSFIELD, CALIFORNIA, 93308, TELEPHONE (661) 633-2200 AND DATED MAY 31, 2002 AND HEREBY MADE A PART HEREOF.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF HIS WORK RELATIVE TO PROJECT GRADING, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS, THE OWNER AND ENGINEER FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF HIS WORK ON THIS PROJECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING THE SITE TO WITHIN 0.1 FOOT PLUS OR MINUS AS PER GRADING AND DRAINAGE PLAN. IF ANY CRITICAL AREA IS FOUND TO BE NOT WITHIN THESE TOLERANCES, CONTRACTOR SHALL CORRECT THE GRADING AT NO COST TO THE OWNER.
 - THE INITIAL GRADING CONTROL STAKING OF THE PROJECT SHALL BE PROVIDED BY OWNER. ANY RESTAKING OR REMARKING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCEMENT OF CONSTRUCTION.
 - ANY EXISTING ON OR OFF-SITE IMPROVEMENT OR UTILITY DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE PREPARED OR REPLACED AT CONTRACTOR'S EXPENSE AS DIRECTED BY PROJECT ENGINEER.
 - SITE PREPARATION AND GRADING SHALL BE DONE UNDER THE SUPERVISION OF GEOTECHNICAL ENGINEER, AND CONTRACTOR SHALL PROVIDE TWO DAYS NOTICE TO GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF ANY GRADING.

ALL SITE GRADING OPERATIONS SHALL CONFORM WITH APPLICABLE LOCAL, BUILDING AND SAFETY CODES AND TO THE RULES AND REGULATIONS OF THOSE REGULATORY AGENCIES HAVING JURISDICTION OVER THE SUBJECT CONSTRUCTION.

THE GRADING CONTRACTOR IS RESPONSIBLE TO NOTIFY REGULATORY AGENCIES, AS REQUIRED, AND THE GEOTECHNICAL ENGINEER AT THE START OF SITE CLEAN-UP, THE INITIATION OF GRADING, AND ANY TIME THAT GRADING OPERATIONS ARE RESUMED AFTER AN INTERRUPTION. EACH STEP OF THE GRADING SHALL BE REVIEWED IN A SPECIFIC AREA BY THE GEOTECHNICAL ENGINEER, AND WHERE REQUIRED, BY THE APPLICABLE GOVERNMENTAL AGENCIES, BEFORE PROCEEDING WITH SUBSEQUENT WORK. A PRE-GRADING CONFERENCE ATTENDED BY AT LEAST A REPRESENTATIVE OF THE OWNER, THE GRADING PLAN DESIGNER, GEOTECHNICAL ENGINEER AND GRADING CONTRACTOR IS RECOMMENDED.

ALL ORGANIC AND DELETERIOUS MATERIALS MUST BE REMOVED FROM AREAS WHICH WILL RECEIVE BUILDING FOUNDATION, ENGINEERED FILL, SLABS, PAVEMENT, OR OTHER AREAS DEEMED IMPORTANT BY THE SOILS ENGINEER. THE GENERAL DEPTH OF STRIPPING SHOULD BE 2 TO 4 INCHES TO ENSURE REMOVAL OF WEED ROOT SYSTEMS AND ORGANIC TOPSOIL UNTIL ORGANICS IN EXCESS OF 3 PERCENT BY VOLUME ARE REMOVED. THIS ORGANIC MATERIAL WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL BUT MAY BE USED AS TOPSOIL AT THE DISCRETION OF THE OWNER, PROVIDED IT IS PLACED WELL OUTSIDE OF BUILDING AND PAVEMENT AREAS AFTER GRADING OPERATIONS.
- EARTHWORK SPECIFICATIONS**
- GENERAL:** WHEN THE TEXT OF THE REPORT CONFLICTS WITH THE GENERAL SPECIFICATIONS IN THIS APPENDIX, THE RECOMMENDATIONS IN THE REPORT HAVE PRECEDENCE.
 - SCOPE OF WORK:** THESE SPECIFICATIONS AND APPLICABLE PLANS PERTAIN TO AND INCLUDE ALL EARTHWORK ASSOCIATED WITH THE SITE ROUGH GRADING, INCLUDING, BUT NOT LIMITED TO, THE FURNISHING OF ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR SITE CLEARING AND GRUBBING, STRIPPING, PREPARATION OF FOUNDATION MATERIALS FOR RECEIVING FILL, EXCAVATION, PROCESSING, PLACEMENT AND COMPACTION OF FILL AND BACKFILL MATERIALS TO THE LINES AND GRADES SHOWN ON THE PROJECT GRADING PLANS AND DISPOSAL OF EXCESS MATERIALS.
 - PERFORMANCE:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL EARTHWORK IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THIS WORK SHALL BE INSPECTED AND TESTED BY A REPRESENTATIVE OF KRAZAN AND ASSOCIATES, INCORPORATED, HEREINAFTER REFERRED TO AS THE SOILS ENGINEER AND/OR TESTING AGENCY. ATTAINMENT OF DESIGN GRADES, WHEN ACHIEVED, SHALL BE CERTIFIED BY THE PROJECT CIVIL ENGINEER. BOTH THE SOILS ENGINEER AND THE CIVIL ENGINEER ARE THE OWNER'S REPRESENTATIVES. IF THE CONTRACTOR SHOULD FAIL TO MEET THE TECHNICAL OR DESIGN REQUIREMENTS EMBODIED IN THIS DOCUMENT AND ON THE APPLICABLE PLANS, HE SHALL MAKE THE NECESSARY ADJUSTMENTS UNTIL ALL WORK IS DEEMED SATISFACTORY AS DETERMINED BY BOTH THE SOILS ENGINEER AND THE CIVIL ENGINEER. NO DEVIATION FROM THESE SPECIFICATIONS SHALL BE MADE EXCEPT UPON WRITTEN APPROVAL OF THE SOILS ENGINEER, CIVIL ENGINEER, OR PROJECT ARCHITECT.

NO EARTHWORK SHALL BE PERFORMED WITHOUT THE PHYSICAL PRESENCE OR APPROVAL OF THE SOILS ENGINEER. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY ASPECT OF THE SITE EARTHWORK.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF 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 ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OF THE ENGINEERS.

- TECHNICAL REQUIREMENTS:** ALL COMPACTED MATERIALS SHALL BE DENSIFIED TO NO LESS THAN 90 PERCENT OF RELATIVE COMPACTION BASED ON ASTM TEST METHOD D1557-78, UBC OR CAL-216, AS SPECIFIED IN THE TECHNICAL PORTION OF THE SOILS ENGINEER'S REPORT. THE LOCATION AND FREQUENCY OF FIELD DENSITY TESTS SHALL BE AS DETERMINED BY THE SOILS ENGINEER. THE RESULTS OF THESE TESTS AND COMPLIANCE WITH THESE SPECIFICATIONS SHALL BE THE BASIS UPON WHICH SATISFACTORY COMPLETION OF WORK SHALL BE JUDGED BY THE SOILS ENGINEER.
- SOILS AND FOUNDATION CONDITIONS:** THE CONTRACTOR IS PRESUMED TO HAVE VISITED THE SITE AND TO HAVE FAMILIARIZED HIMSELF WITH EXISTING SITE CONDITIONS AND THE CONTENTS OF THE DATA PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT.

THE CONTRACTOR SHALL MAKE HIS OWN INTERPRETATION OF THE DATA CONTAINED IN THE GEOTECHNICAL ENGINEERING REPORT AND THE CONTRACTOR SHALL NOT BE RELIEVED OF LIABILITY UNDER THE CONTRACTOR FOR ANY LOSS SUSTAINED AS A RESULT OF ANY VARIANCE BETWEEN CONDITIONS INDICATED BY OR DEDUCED FROM SAID REPORT AND THE ACTUAL CONDITIONS ENCOUNTERED DURING THE PROGRESS OF THE WORK.
- DUST CONTROL:** THE WORK INCLUDES DUST CONTROL AS REQUIRED FOR THE ALLEVIATION OR PREVENTION OF ANY DUST NUISANCE ON OR ABOUT THE SITE OR THE BORROW AREA, OR OFF-SITE IF CAUSED BY THE CONTRACTOR'S OPERATION EITHER DURING THE PERFORMANCE OF THE EARTHWORK OR RESULTING FROM THE CONDITIONS IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL ASSUME ALL LIABILITY, INCLUDING COURT COSTS OF CODEFENDANTS, FOR ALL CLAIMS RELATED TO DUST OR WIND-BLOWN MATERIALS ATTRIBUTABLE TO HIS WORK.
- SITE PREPARATION:** GENERAL SITE CLEARING SHOULD INCLUDE REMOVAL OF ASPHALTIC CONCRETE, VEGETATION AND EXISTING UTILITIES, AND STRUCTURES, INCLUDING FOUNDATIONS, BASEMENT WALLS AND FLOORS, EXISTING STOCKPILED SOIL, TREES AND ASSOCIATED ROOT SYSTEMS, RUBBLE, RUBBISH, AND ANY LOOSE AND/OR SATURATED MATERIALS. SITE STRIPPING SHOULD EXTEND TO A MINIMUM DEPTH OF 2 TO 4 INCHES, OR UNTIL ALL ORGANICS IN EXCESS OF 3 PERCENT BY VOLUME ARE REMOVED. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. THESE MATERIALS WILL NOT BE SUITABLE FOR REUSE AS ENGINEERED FILL. HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE OR NON-STRUCTURAL AREAS.

FOLLOWING STRIPPING AND FILL REMOVAL OPERATIONS, THE EXPOSED SUBGRADE IN BUILDING PAD, EXTERIOR FLATWORK, AND PAVEMENT AREAS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 12 INCHES, WORKED UNTIL UNIFORM AND FREE FROM LARGE CLODS, MOISTURE-CONDITIONED AS NECESSARY, AND RECOMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DENSITY BASED ON ASTM TEST METHOD D1557.
- CLEARING AND GRUBBING:** THE CONTRACTOR SHALL ACCEPT THE SITE IN THIS PRESENT CONDITION AND SHALL DEMOLISH AND/OR REMOVE FROM THE AREA OF DESIGNATED PROJECT EARTHWORK ALL STRUCTURES, BOTH SURFACE AND SUBSURFACE, TREES, BRUSH, ROOTS, DEBRIS, ORGANIC MATTER AND ALL OTHER MATTER DETERMINED BY THE SOILS ENGINEER TO BE DELETERIOUS. SUCH MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. TREE ROOT SYSTEMS IN PROPOSED BUILDING AREAS SHOULD BE REMOVED TO A MINIMUM DEPTH OF 3 FEET AND TO SUCH AN EXTENT WHICH WOULD PERMIT REMOVAL OF ALL ROOTS GREATER THAN 1 INCH IN DIAMETER. TREE ROOTS REMOVED IN PARKING AREAS MAY BE LIMITED TO THE UPPER 1-1/2 FEET OF THE GROUND SURFACE. BACKFILL OR TREE ROOT EXCAVATION SHOULD NOT BE PERMITTED UNTIL ALL EXPOSED SURFACES HAVE BEEN INSPECTED AND THE SOILS ENGINEER IS PRESENT FOR THE PROPER CONTROL OF BACKFILL PLACEMENT AND COMPACTION. BURNING IN AREAS WHICH ARE TO RECEIVE FILL MATERIALS SHALL NOT BE PERMITTED.
- SUBGRADE PREPARATION:** SURFACES TO RECEIVE ENGINEERED FILL, BUILDING OR SLAB LOADS, SHALL BE PREPARED AS OUTLINED ABOVE, EXCAVATED/SCARIFIED TO A DEPTH OF 12 INCHES, MOISTURE-CONDITIONED AS NECESSARY, AND RECOMPACTED TO 90 PERCENT RELATIVE COMPACTION.

LOOSE SOIL AREAS AND/OR AREAS OF DISTURBED SOIL SHALL BE MOISTURE-CONDITIONED AS NECESSARY AND RECOMPACTED TO 90 PERCENT RELATIVE COMPACTION. ALL RUTS, HUMMOCKS, OR OTHER UNEVEN SURFACE FEATURES SHALL BE REMOVED BY SURFACE GRADING PRIOR TO PLACEMENT OF ANY FILL MATERIALS. ALL AREAS WHICH ARE TO RECEIVE FILL MATERIALS SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO THE PLACEMENT OF ANY OF THE FILL MATERIAL.
- ENGINEERED FILL:** THE ORGANIC-FREE, ON-SITE, UPPER SOILS ARE PREDOMINATELY SILTY SANDS AND SANDY SILTS. THESE SOILS WILL BE SUITABLE FOR REUSE AS ENGINEERED FILL, PROVIDED THEY ARE CLEANSED OF EXCESSIVE ORGANICS, DEBRIS, AND FRAGMENTS LARGER THAN 4 INCHES IN DIAMETER.

THE PREFERRED MATERIALS SPECIFIED FOR ENGINEERED FILL ARE SUITABLE FOR MOST APPLICATIONS WITH THE EXCEPTION OF EXPOSURE TO EROSION. PROJECT SITE WINTERIZATION AND PROTECTION OF EXPOSED SOILS DURING THE CONSTRUCTION PHASE SHOULD BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SINCE HE HAS COMPLETE CONTROL OF THE PROJECT SITE AT THAT TIME.

IMPORTED FILL MATERIAL SHOULD BE PREDOMINATELY NON-EXPANSIVE GRANULAR MATERIAL WITH A PLASTICITY INDEX LESS THAN 10 AND A UBC EXPANSION INDEX LESS THAN 15. IMPORTED FILL SHOULD BE FREE FROM ROCKS AND CLODS GREATER THAN 4 INCHES IN DIAMETER. ALL IMPORTED FILL MATERIAL SHOULD BE SUBMITTED TO THE SOILS ENGINEER FOR APPROVAL AT LEAST 48 HOURS PRIOR TO DELIVERY AT THE SITE.

FILL SOILS SHOULD BE PLACED IN LIFTS APPROXIMATELY 6 INCHES THICK, MOISTURE-CONDITIONED AS NECESSARY, AND COMPACTED TO ACHIEVE AT LEAST 90 PERCENT MAXIMUM DENSITY AS DETERMINED BY ASTM TEST METHOD D1557. ADDITIONAL LIFTS SHOULD NOT BE PLACED IF THE PREVIOUS LIFT DID NOT MEET THE REQUIRED DRY DENSITY OR IF SOIL CONDITIONS ARE NOT STABLE.

GEOTECHNICAL ENGINEER SHALL PROVIDE A SOILS REPORT FOR IMPORT MATERIALS PRIOR TO GRADING.

- PLACEMENT, SPREADING AND COMPACTION:** THE PLACEMENT AND SPREADING OF APPROVED FILL MATERIALS AND THE PROCESSING AND COMPACTION OF APPROVED FILL AND NATIVE MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HOWEVER, COMPACTION OF FILL MATERIALS BY FLOODING, PONDING, OR JETTING SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY LOCAL CODE, AS WELL AS THE SOILS ENGINEER.
- FILL AND BACKFILL MATERIAL:** NO MATERIAL SHALL BE MOVED OR COMPACTED WITHOUT THE PRESENCE OF THE SOILS ENGINEER. MATERIAL FROM THE REQUIRED SITE EXCAVATION MAY BE UTILIZED FOR CONSTRUCTION SITE FILLS, PROVIDED PRIOR APPROVAL IS GIVEN BY THE SOILS ENGINEER. ALL MATERIALS UTILIZED FOR CONSTRUCTING SITE FILLS SHALL BE FREE FROM VEGETATION OR OTHER DELETERIOUS MATTER AS DETERMINED BY THE SOILS ENGINEER.

BOTH CUT AND FILL SHALL BE SURFACE-COMPACTED TO THE SATISFACTION OF THE SOILS ENGINEER PRIOR TO FINAL ACCEPTANCE.
- SEASONAL LIMITS:** NO FILL MATERIAL SHALL BE PLACED, SPREAD, OR ROLLED WHILE IT IS FROZEN OR THAWING, OR DURING UNFAVORABLE WET WEATHER CONDITIONS. WHEN THE WORK IS INTERRUPTED BY HEAVY RAINS, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL THE SOILS ENGINEER INDICATES THAT THE MOISTURE CONTENT AND DENSITY OF PREVIOUSLY PLACED FILL IS AS SPECIFIED.
- UTILITY TRENCH BACKFILL:** UTILITY TRENCHES SHALL BE EXCAVATED ACCORDING TO ACCEPTED ENGINEERING PRACTICES FOLLOWING OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS BY A CONTRACTOR EXPERIENCED IN SUCH WORK. THE RESPONSIBILITY FOR THE SAFETY OF OPEN TRENCHES SHOULD BE BORNE BY THE CONTRACTOR. TRAFFIC AND VIBRATION ADJACENT TO TRENCH WALLS SHOULD BE MINIMIZED; CYCLIC WETTING AND DRYING OF EXCAVATION SIDE SLOPES SHOULD BE AVOIDED. DEPENDING UPON THE LOCATION AND DEPTH OF SOME UTILITY TRENCHES, GROUNDWATER FLOW INTO OPEN EXCAVATIONS COULD OCCUR, ESPECIALLY DURING OR FOLLOWING PERIODS OF PRECIPITATION. SANDY SOIL CONDITIONS WERE ENCOUNTERED AT THE SITE. THESE COHESIONLESS SOILS HAVE A TENDENCY TO CAVE IN TRENCH WALL EXCAVATIONS. SHORING OR SLOPING BACK TRENCH SIDEWALLS MAY BE REQUIRED WITHIN SANDY SOILS.

UTILITY TRENCH BACKFILL PLACED IN OR ADJACENT TO BUILDINGS AND EXTERIOR SLABS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DENSITY BASED ON ASTM TEST METHOD D1557. UTILITY TRENCH BACKFILL PLACED IN PAVEMENT AREAS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DENSITY BASED ON ASTM TEST METHOD D1557. PIPE BEDDING SHOULD BE IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL WATER-SENSITIVE SOILS FROM THE TRENCH REGARDLESS OF THE BACKFILL LOCATION AND COMPACTION REQUIREMENTS. THE CONTRACTOR SHOULD USE APPROPRIATE EQUIPMENT AND METHODS TO AVOID DAMAGE TO THE UTILITIES AND/OR STRUCTURES DURING FILL PLACEMENT AND COMPACTION.
- FLOOR SLABS AND EXTERIOR FLATWORK:** CONCRETE SLAB-ON-GRADE FLOORS SHALL UNDERLAIN BY A WATER VAPOR RETARDER. THE WATER VAPOR RETARDER SHOULD BE INSTALLED IN ACCORDANCE WITH ASTM SPECIFICATION E 1643-94. ACCORDING TO ASTM GUIDELINES, THE WATER VAPOR RETARDER SHOULD CONSIST OF A VAPOR RETARDER SHEETING UNDERLAIN BY A MINIMUM OF 3 INCHES OF COMPACTED, CLEAN, OPEN-GRADED COARSE ROCK OF 3/4 INCH MAXIMUM SIZE. IF ELECTED, A 2 INCH THICK LAYER OF DAMP CLEAN AND UNIFIED SOIL CLASSIFICATION SW OR SP MAY BE PLACED ABOVE THE WATER VAPOR RETARDER TO PROTECT IT FROM DAMAGE.

PRIOR TO POURING CONCRETE, THE SAND SHOULD BE THOROUGHLY CONSOLIDATED. THE UPPER 2 INCHES OF SAND SHOULD BE WETTED DURING OR JUST BEFORE THE CONCRETE POUR TO AID IN CONCRETE CURING.

THE EXTERIOR FLOORS SHOULD BE POURED SEPARATELY IN ORDER TO ACT INDEPENDENTLY OF THE WALLS AND FOUNDATION SYSTEM. EXTERIOR FINISH GRADES SHOULD BE SLOPED A MINIMUM OF 1 TO 1-1/2 PERCENT AWAY FROM ALL INTERIOR SLAB AREAS TO PRECLUDE PONDING OF WATER ADJACENT TO THE STRUCTURES. ALL FILLS REQUIRED TO BRING THE BUILDING PADS TO GRADE SHOULD BE ENGINEERED FILLS.
- LATERAL EARTH PRESSURES AND RETAINING WALLS:** WALLS RETAINING HORIZONTAL AND CAPABLE OF DEFLECTING A MINIMUM OF 0.1 PERCENT OF ITS HEIGHT AT THE TOP MAY BE DESIGNED USING AN EQUIVALENT FLUID ACTIVE PRESSURE OF 31 POUNDS PER SQUARE FOOT OF DEPTH. WALLS INCAPABLE OF THIS DEFLECTION OR FULLY CONSTRAINED WALLS AGAINST DEFLECTION MAY BE DESIGNED FOR AN EQUIVALENT FLUID AT-REST PRESSURE OF 52 POUNDS PER SQUARE FOOT OF DEPTH. EXPANSIVE SOILS SHOULD NOT BE USED FOR BACKFILL AGAINST WALLS. THE WEDGE OF NON-EXPANSIVE BACKFILL MATERIAL SHOULD EXTEND FROM THE BOTTOM OF EACH RETAINING WALL OUTWARD AND UPWARD AT A SLOP OF 2:1 (HORIZONTAL TO VERTICAL) OR FLATTER. THE STATED LATERAL EARTH PRESSURES DO NOT INCLUDE THE EFFECTS OF HYDROSTATIC WATER PRESSURES GENERATED BY INFILTRATING SURFACE WATER THAT MAY ACCUMULATE BEHIND THE RETAINING WALLS, OR LOADS IMPOSED BY CONSTRUCTION EQUIPMENT, FOUNDATIONS, OR ROADWAYS.
- CUT/FILL VOLUMES:** THERE WILL BE APPROXIMATELY 2159 YDS³ OF ON-SITE CUT WITH 5204 YDS³ OF REQUIRED FILL, WHICH WILL REQUIRE IMPORTATION OF 5230 YDS³.

THE CUT AND FILL QUANTITIES WERE CALCULATED USING A COMPACTION FACTOR OF 142%. ENGINEER MAKES NO WARRANTY, DIRECT OR IMPLIED THAT THIS FACTOR WILL BE THE ACTUAL RATE OF COMPACTION. SHOULD THE CONTRACTOR, DURING THE PROCESS OF CONSTRUCTION FIND THAT THE FACTOR REQUIRES ADJUSTMENT, HE SHALL IMMEDIATELY NOTIFY PROJECT ENGINEER.
- UPON COMPLETION OF GRADING AND BEFORE THE START OF CONSTRUCTION, A FINAL SOILS REPORT COVERING THE SITE PREPARATION AND GRADING SHALL BE SUBMITTED BY THE SOILS ENGINEER.

REVISION	BY
1 OCT 02	JA

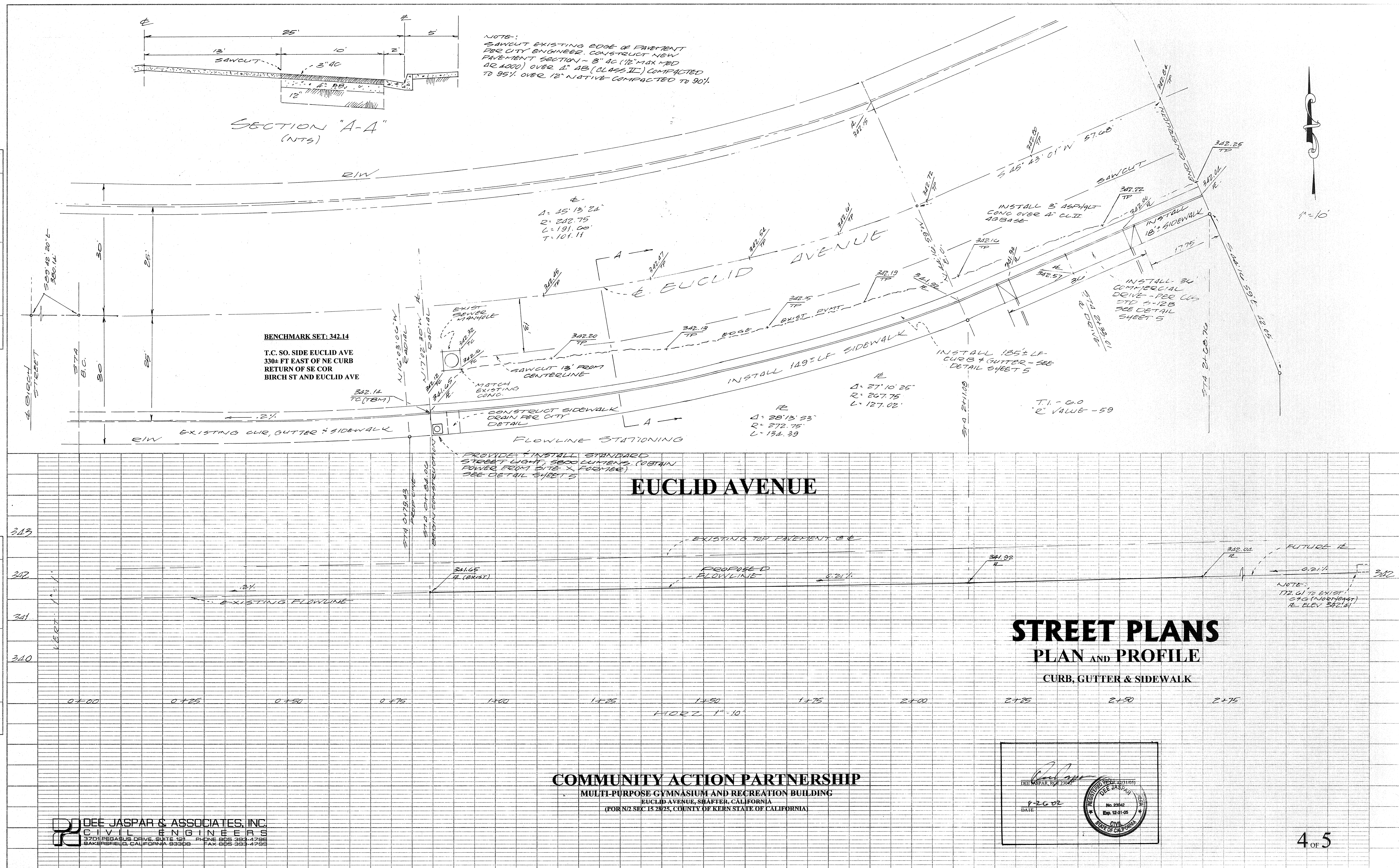
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
3701 REGADUE DRIVE, SUITE 207
BAKERSFIELD, CALIFORNIA 93309
PHONE (805) 395-4798
FAX (805) 395-4798

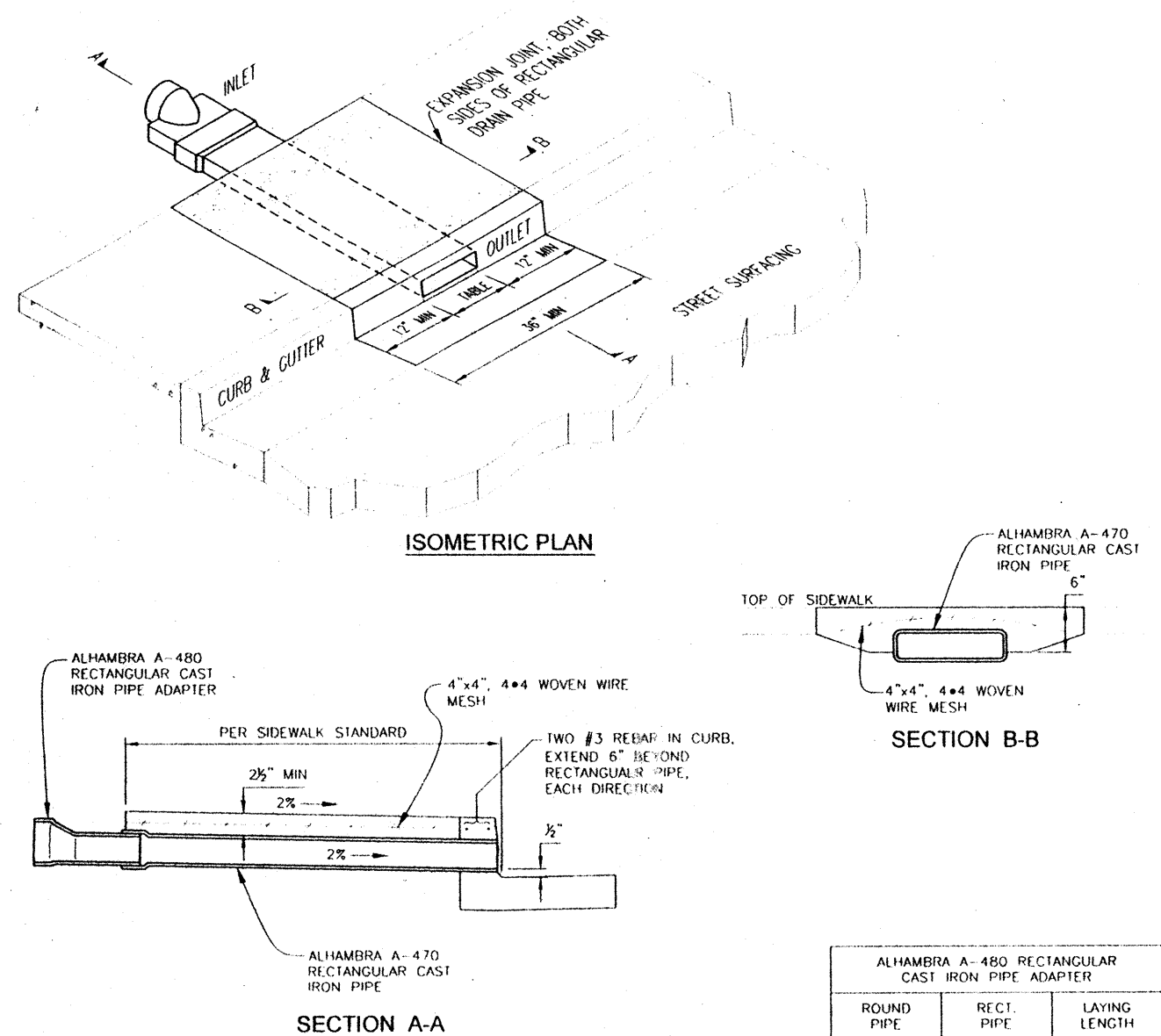
COMMUNITY ACTION PARTNERSHIP
MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING
EUCLID AVENUE, SHAFER, CALIFORNIA

GRADING NOTES

DRAWN
CHECKED
DATE 20 AUG 02
SCALE
FILE 05-263
JOB NO. K09000102
SHEET 3 OF 5
OF SHEETS

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	NOTE BOOK		
	GLASSER CHECKED		
	B. M. # NOTED		
NO.	STRUCTURE NOTATIONS CHECKED		





SECTION A-A

GENERAL NOTES:

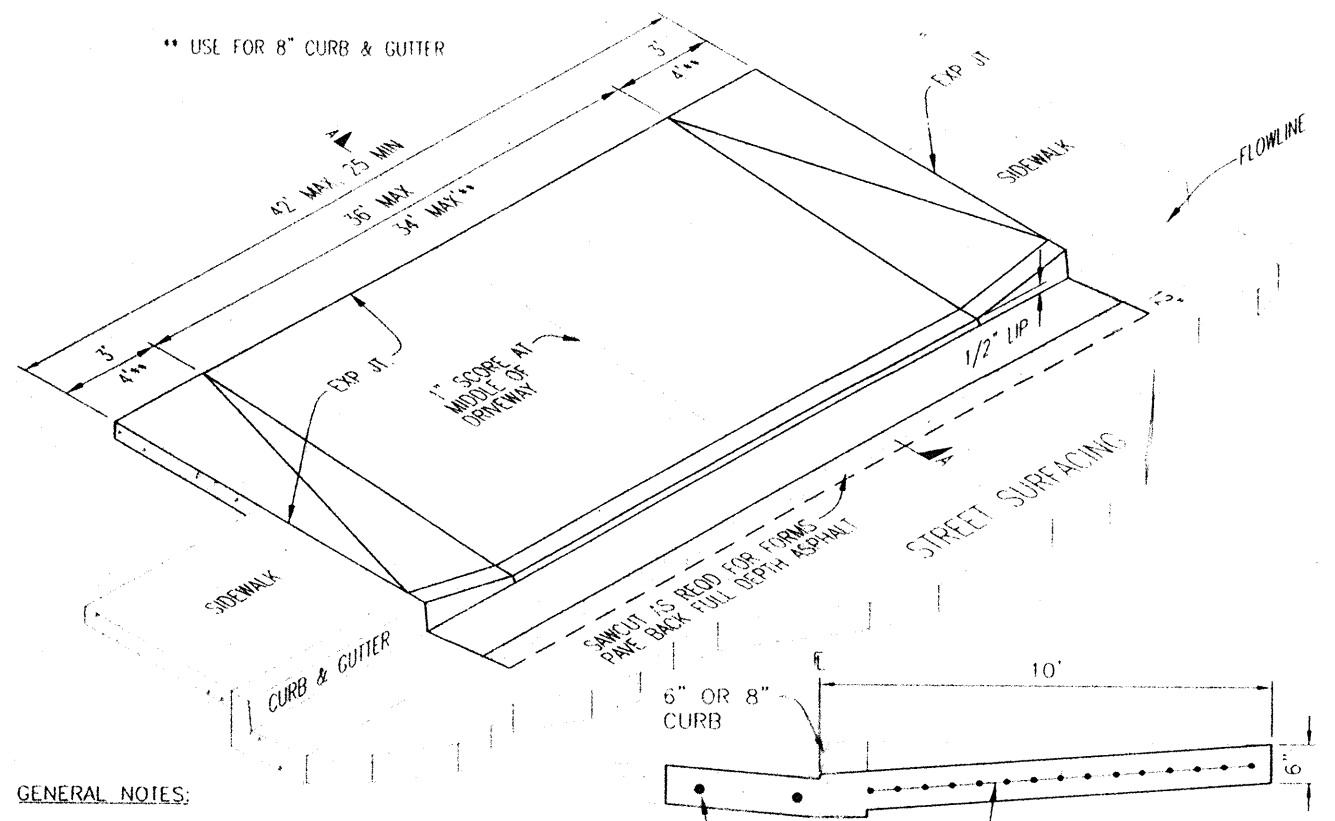
1. THE USE OF UNDER SIDEWALK DRAIN IS TO BE KEPT TO A MINIMUM. WHENEVER POSSIBLE, DRAIN SHALL BE DESIGNED TO SURFACE DRAIN OVER TOP OF SIDEWALK INTO GUTTER FLOWLINE.
2. ALTERNATIVE MANUFACTURERS AND/OR DESIGNS MUST BE SUBMITTED & APPROVED BY THE CITY PRIOR TO USAGE.
3. THE ALHAMBRA A-480 PIPE ADAPTER IS OPTIONAL.
4. FOR ALL OTHER REQUIREMENTS, REFER TO THE CITY SIDEWALK STANDARDS AND DRAWINGS.

ALHAMBRA A-480 RECTANGULAR CAST IRON PIPE ADAPTER	ROUND PIPE	RECT. PIPE	LAYING LENGTH
4"	3" x 3"	3" x 3"	1'-0"
6"	3" x 3"	3" x 3"	1'-0"
8"	3" x 3"	3" x 3"	1'-0"

ALHAMBRA A-470 RECTANGULAR CAST IRON PIPE	OUTSIDE DIAMETER	INSIDE DIAMETER	FLOW AREA	LAYING LENGTH
4"	4.50"	4.00"	11.25 SQ. IN.	5'-0"
6"	6.50"	6.00"	21.25 SQ. IN.	5'-0"
8"	8.50"	8.00"	31.25 SQ. IN.	5'-0"

SIDEWALK DRAIN STANDARD DRAWING

D-10



GENERAL NOTES:

ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, CURRENT EDITION."

WHERE DRIVEWAY IS TO BE CONSTRUCTED FOR A PORTION OF SIDEWALK WIDTH, SIDEWALK SHALL BE REMOVED TO NEAREST SCORE LINE, ON EACH SIDE OF DRIVEWAY FOR RAMP CONSTRUCTION.

SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION, WITH COMPACTION OF 90% TO A DEPTH OF 1.0 FEET.

CONCRETE FOR DRIVEWAYS SHALL BE CLASS "B" (5 SACK), AND SHALL BE WITHIN 25% AND 5% SLUMP, AND WITH A LIGHT BROOM FINISH.

EXPANSION JOINTS SHALL BE INSTALLED AS SHOWN.

ALL EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK, ACROSS FACE OF ANY PROPOSED DRIVEWAY SHALL BE SAWCUT AT RIGHT ANGLE TO FLOWLINE, AND REMOVED.

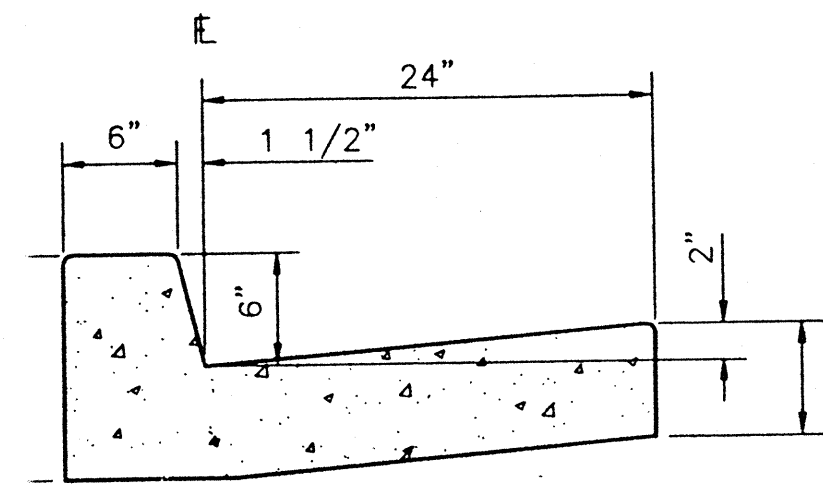
NO DRIVEWAY CONSTRUCTION PERMITTED IN STREET OR ALLEY RETURNS.

NO PORTION OF THE DRIVEWAY OR RAMP IS TO BE ON ADJACENT PROPERTY FRONTAGE WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER.

ALL DRIVEWAY LOCATIONS ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER.

STANDARD COMMERCIAL DRIVEWAY STANDARD DRAWING

S-12B



TYPE "B" CURB AND GUTTER

VOLUME = 16.9 FT. PER YD.

GENERAL NOTES:

SUBGRADE FOR CURB AND GUTTER SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION WITH COMPACTION OF 90% TO A DEPTH OF 1.0 FT. BELOW SUBGRADE.

ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS," AND THE FOLLOWING SPECIAL PROVISIONS:

CONCRETE FOR CURB AND GUTTER SHALL BE CLASS "B" (5 SACK) AND SHALL BE WITHIN 2 1/2" TO 5 1/2" SLUMP.

TIMBER FORMS SHALL BE SURFACED OF THE SIDE PLACED NEXT TO THE CONCRETE AND SHALL NOT BE LESS THAN 1 1/2" THICK AFTER BEING SURFACED.

TOP AND FACE SHALL BE TROWLED SMOOTH, THEN GIVEN A FINE BRUSH FINISH PARALLEL TO THE FLOWLINE.

WHERE EXISTING CURB AND GUTTER IS TO BE REPLACED, NEW CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

EXISTING SECTIONS OF CONCRETE CURB AND GUTTER SHALL BE SAWCUT AT THE LIMITS OF THE AREA TO BE RECONSTRUCTED.

CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND COMPLYING TO SECTION 90-7.01B OF THE "STANDARD SPECIFICATIONS."

UP OF GUTTER AND TOP OF CURB SHALL BE EDGED TO A 1/2" RADIUS, AND THE FLOWLINE SHALL HAVE A 1" RADIUS.

CONCRETE SHALL CONTAIN NO ADDITIVES UNLESS PRIOR APPROVAL IS OBTAINED BY THE CITY ENGINEER.

WEAKENED PLANE JOINTS OR COLD JOINTS SHALL BE CONSTRUCTED AT 15 FOOT INTERVALS.

EXPANSION JOINTS SHALL BE AT EACH SIDE OF STRUCTURES AND AT END OF CURB RETURNS.

TYPE "A" CURB AND GUTTER MAY BE REQUIRED ON STREETS IF REQUIRED FOR DRAINAGE.

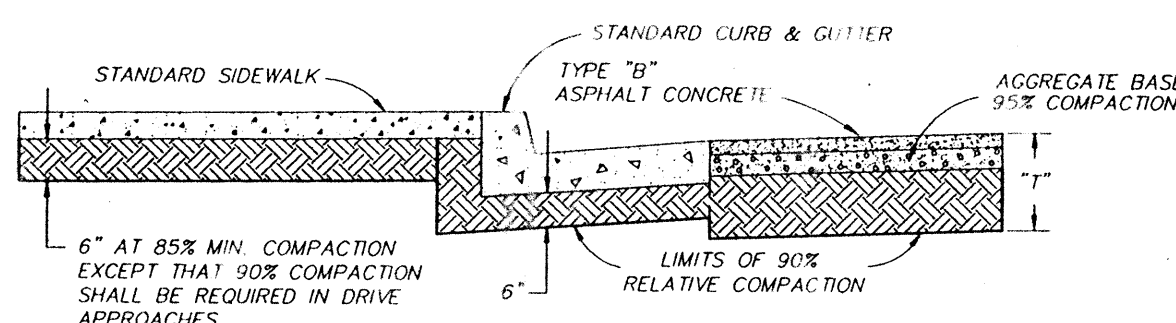
TYPE "B" CURB AND GUTTER IS REQUIRED IN ALL STREETS EXCEPT WHERE TYPE "A" OR "C" IS REQUIRED OR PERMITTED.

TYPE "C" CURB AND GUTTER IS PERMITTED ONLY IN MOBILE HOME PARKS, MOBILE HOME SUBDIVISIONS, AND RS-2 1/2 A RESIDENTIAL SUBURBAN 2.5 ACRE MINIMUM LOT SIZE ZONE.

PERMIT FOR CURB AND GUTTER CONSTRUCTION SHALL ACCOMPANY ACTUAL WORK AND MAY BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS.

WHEN CONSTRUCTING NEW CURB AND GUTTER THE EXISTING PAVEMENT SHALL BE SAWCUT A MINIMUM OF 2 FT. FROM THE LIP OF GUTTER.

STANDARD CURB AND GUTTER STANDARD DRAWING



STREET SECTION

STREET SPECIFICATIONS:

THE WIDTH SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN THE CITY OF BAKERSFIELD STANDARD STREET SECTIONS.

PAVEMENT SHALL BE TYPE "B" ASPHALT CONCRETE AR 4000, 1/2" MAX. MED., UNLESS NOTED OTHERWISE. MEETING THE REQUIREMENTS OF SECTION 39 OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.

AGGREGATE BASE SHALL BE CLASS 2 AGGREGATE BASE CONFORMING TO SECTION 26 OF THE STANDARD SPECIFICATIONS.

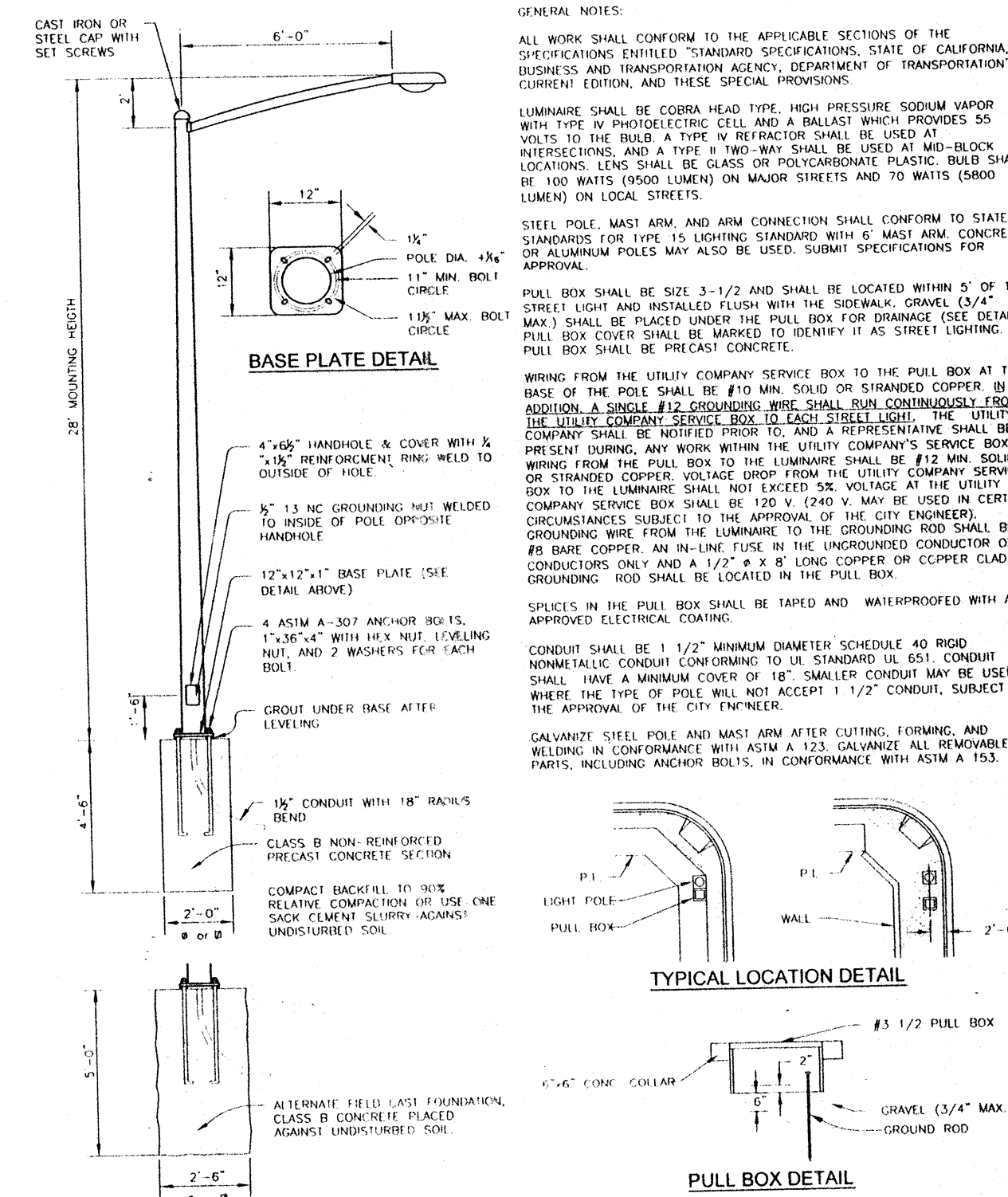
STRUCTURAL SECTIONS FOR ALL STREETS SHALL BE DESIGNED USING TRAFFIC INDEX IN ACCORDANCE WITH THE PROVISIONS OF SECTION 304-5 OF THE SUBDIVISION AND ENGINEERING DESIGN MANUAL.

SOL TEST DATA USED IN THE DESIGN CALCULATION SHALL BE FURNISHED BY A SOIL TESTING LABORATORY APPROVED BY THE CITY ENGINEER.

TRAFFIC INDEX	"T" (FEET)
3.0 - 5.0	1.5
5.5 - 6.5	1.0
7.0 - 8.0	2.0
8.5 OR MORE	2.5

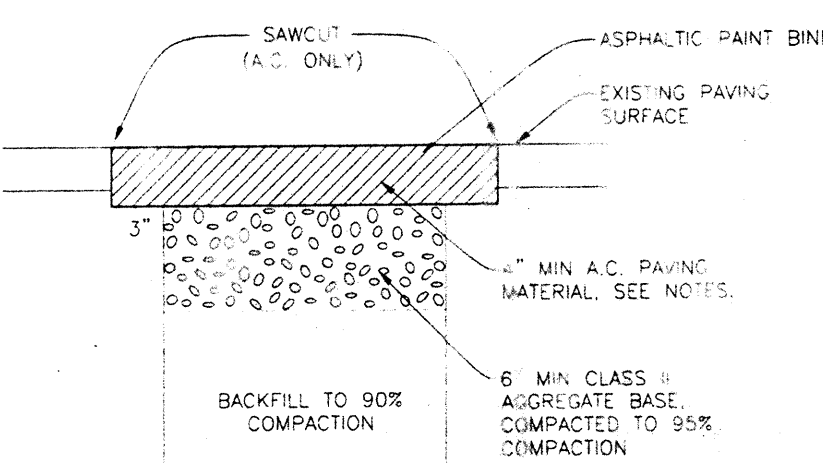
R-VALUE TESTS

THE DEVELOPER IS REQUIRED TO HAVE R-VALUE TESTS PERFORMED FOR DEVELOPMENTS WITHIN THE CITY. TESTS SHALL BE PROVIDED BY REGISTERED GEOTECHNICAL ENGINEER/CIVIL ENGINEER. TESTS SHALL BE TAKEN IN PROPOSED ROADWAYS, AND IN SUFFICIENT QUANTITY TO REPRESENT THE SUBDIVISION, TO THE SATISFACTION OF THE CITY ENGINEER.

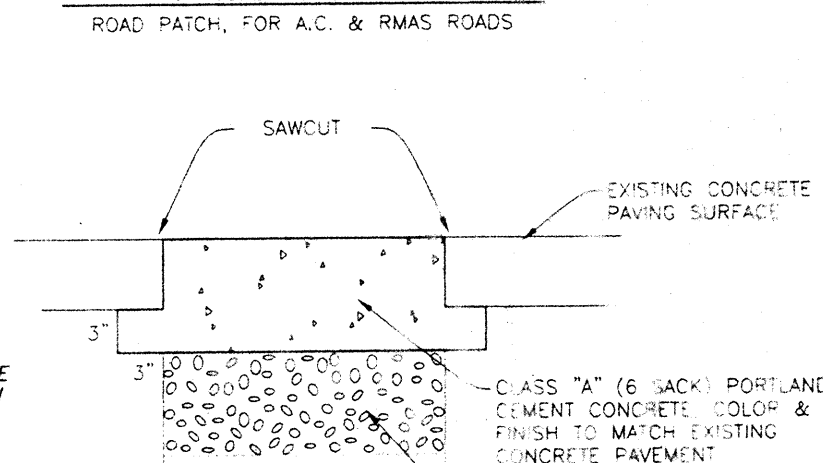


STREET LIGHT STANDARD DRAWING

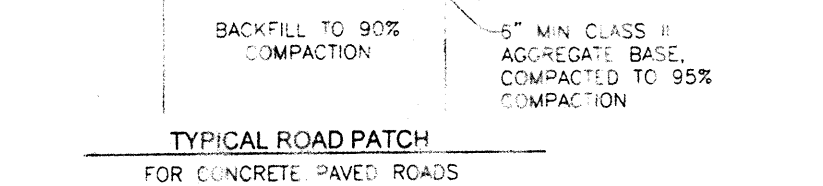
S-31



TYPICAL ROAD PATCH



TYPICAL ROAD PATCH



PAVEMENT PATCH AC, RMAS, & PC STANDARD DRAWING

S-3

PAVEMENT SPECIFICATIONS

DEFINITIONS - THE TERM "PAVEMENT" SHALL INCLUDE ASPHALTIC CONCRETE SURFACING, UNTREATED AGGREGATE BASE, AND AGGREGATE SUBBASE. THE TERM "SUBGRADE" IS THAT PORTION OF THE AREA ON WHICH SURFACING, BASE, OR SUBBASE IS TO BE PLACED.

THE TERM "STANDARD SPECIFICATIONS", HEREINAFTER REFERRED TO AS THE JANUARY 1991 STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND THE "MATERIALS MANUAL" IS THE MATERIALS MANUAL OF TESTING AND CONTROL PROCEDURES, STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS. THE TERM "RELATIVE COMPACTION" REFERS TO THE FIELD DENSITY EXPRESSED AS A PERCENTAGE OF THE MAXIMUM LABORATORY DENSITY AS DEFINED IN THE APPLICABLE TESTS OUTLINE IN THE MATERIALS MANUAL.

PREPARATION OF THE SUBGRADE - THE CONTRACTOR SHALL PREPARE THE SURFACE OF THE VARIOUS SUBGRADES RECEIVING SUBSEQUENT PAVEMENT COURSES TO THE LINES, GRADES, AND DIMENSIONS GIVEN ON THE PLANS. THE UPPER 12 INCHES OF THE SOIL SUBGRADE BENEATH THE PAVEMENT SECTION SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT. THE FINISHED SUBGRADES SHALL BE TESTED AND APPROVED BY THE SOILS ENGINEER PRIOR TO THE PLACEMENT OF ADDITIONAL PAVEMENT COURSES.

AGGREGATE SUBBASE - THE AGGREGATE SUBBASE SHALL BE SPREAD AND COMPACTED ON THE PREPARED SUBGRADE IN CONFORMITY WITH THE LINES, GRADES, AND DIMENSIONS SHOWN ON THE PLANS. THE AGGREGATE SUBBASE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF SECTION 25 OF THE STANDARD SPECIFICATIONS FOR CLASS II MATERIAL. THE AGGREGATE SUBBASE MATERIAL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95 PERCENT, AND IT SHALL BE SPREAD AND COMPACTED IN ACCORDANCE WITH SECTION 25 OF THE STANDARD SPECIFICATIONS. EACH LAYER OF AGGREGATE SUBBASE SHALL BE TESTED AND APPROVED BY THE SOILS ENGINEER PRIOR TO THE PLACEMENT OF SUCCESSIVE LAYERS.

ASPHALTIC CONCRETE SURFACING - ASPHALTIC CONCRETE SURFACING SHALL CONSIST OF A MIXTURE OF MINERAL AGGREGATE AND PAVING GRADE ASPHALT, MIXED AT A CENTRAL MIXING PLANT AND SPREAD AND COMPACTED GRADE OF THE ASPHALT SHALL BE AR-4000. THE MINERAL AGGREGATE SHALL BE TYPE B, 1/2 INCH MAXIMUM SIZE, MEDIUM GRADING AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 39 OF THE STANDARD SPECIFICATIONS. THE DRYING, PROPORTIONING AND MIXING OF THE MATERIALS SHALL CONFORM TO SECTION 39. THE PRIME COAT, SPREADING AND COMPACTING EQUIPMENT AND SPREADING AND COMPACTING MIXTURE SHALL CONFORM TO THE APPLICABLE CHAPTERS OF SECTION 39, WITH THE EXCEPTION THAT NO SURFACE COURSE SHALL BE PLACED WHEN THE ATMOSPHERIC TEMPERATURE IS BELOW 50°F. THE SURFACING SHALL BE ROLLED WITH A COMBINATION STEEL WHEEL AND PNEUMATIC ROLLERS, AS DESCRIBED IN SECTION 39-6. THE SURFACE COURSE SHALL BE PLACED WITH AN APPROVED SELF-PROPELLED MECHANICAL SPREADING AND FINISHING MACHINE.

FOG SEAL COAT - THE FOG SEAL (MIXING TYPE ASPHALTIC EMULSION) SHALL CONFORM TO AND BE APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 37.

GENERAL NOTES:

ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS," AND THE FOLLOWING SPECIAL PROVISIONS:

SUBGRADE FOR SIDEWALK SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION WITH COMPACTION OF 90% TO A DEPTH OF 0.5 FT. BELOW SUBGRADE.

CONCRETE FOR SIDEWALK SHALL BE CLASS "B" (5 SACK) AND SHALL BE WITHIN 25% TO 50% SLUMP.

TIMBER FORMS SHALL BE SURFACED OF THE SIDE PLACED NEXT TO THE CONCRETE AND SHALL NOT BE LESS THAN 1 1/2" THICK AFTER BEING SURFACED.

SIDEWALK TO BE SCORED AND CONSISTENTLY SIZED. RECTANGLES OF NOT LESS THAN 12 SQ. FT. AND NO MORE THAN 20 SQ. FT.

WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 20 LINEAR FT.

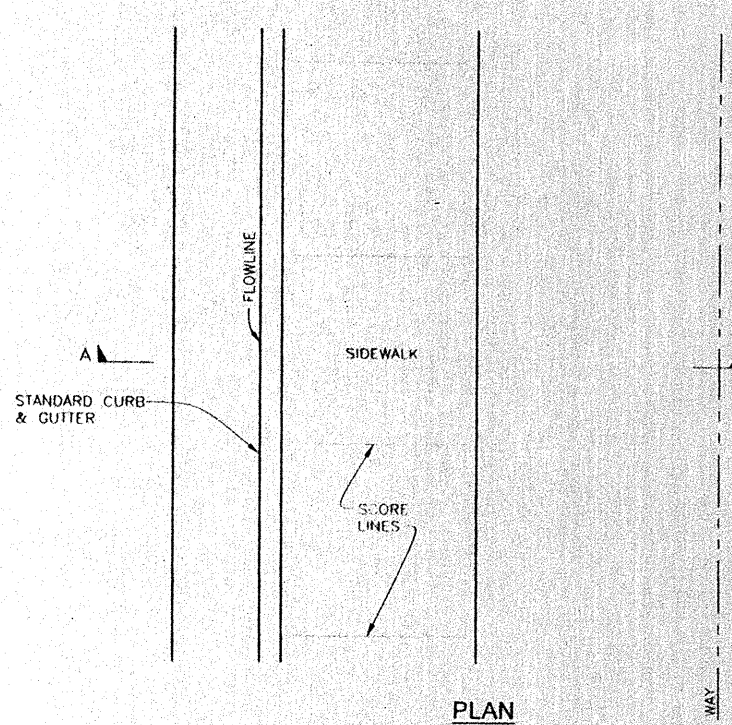
TOP SHALL BE TROWLED SMOOTH, SLOPED PER DETAILS, THEN GIVEN A FINE BRUSH FINISH PERPENDICULAR TO THE FLOWLINE.

EXPANSION JOINTS SHALL BE INSTALLED AT SITES OF STRUCTURES, ENDS OF CURB RETURNS, DRIVE APPROACHES, AND OPPOSITE EXPANSION JOINTS IN EXISTING CURB. MAX. SPACING IS 40 FT.

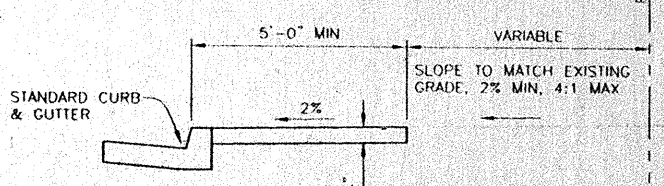
WHERE EXISTING SIDEWALK IS TO BE REPLACED, NEW CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND COMPLYING TO SECTION 90-7.01B OF THE STANDARD SPECIFICATIONS.

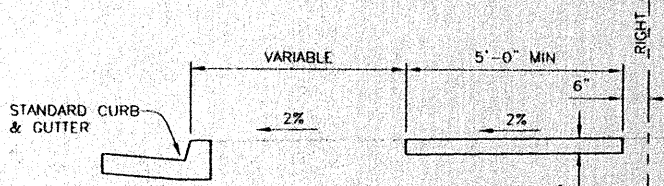
CONCRETE SHALL CONTAIN NO ADDITIVES UNLESS PRIOR APPROVAL IS OBTAINED BY THE CITY ENGINEER.



PLAN



SECTION A-A



SECTION A-A

SIDEWALK TYPE 2 STANDARD DRAWING

S-53

REVISION	BY
2 OCT 02	JW

DEE JASPAR & ASSOCIATES, INC.
1500 PASCADILLA DRIVE, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
TEL: 805-338-7288
FAX: 805-338-7289

COMMUNITY ACTION PARTNERSHIP
MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING
EUCALYPTUS AVENUE, SUITE 100
(FOR 1/2 SEC 15.2825, COUNTY OF KERN STATE OF CALIFORNIA)

STREET NOTES & DETAILS

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SHEET 5 OF 5



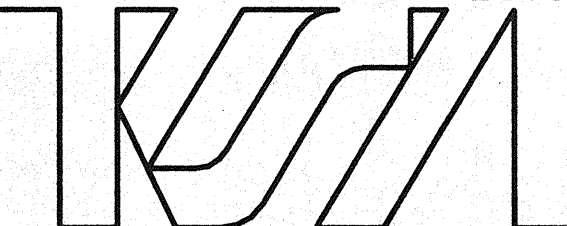
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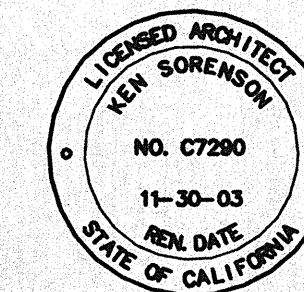
KEY NOTES

- 01 4" THICK CONCRETE SIDEWALKS U.O.N.
TROWLED CONTROL JOINTS AT 6'-0" O.C.
MAX. PROVIDE FIBER EXPANSION JOINTS AT
24'-0" O.C. MAX AND AT ALL CORNERS AND
INTERSECTION LOCATIONS - FINISH WALKS WITH
A LIGHT BROOM TEXTURE STROKED PERP.
TO THE DIRECTION OF TRAVEL WITH 2" WIDE
SHINERS AT ALL EDGES TYPICAL.
- 02 6" WDE CONCRETE MOW STRIP TYPICAL AT
THE PERIMETER OF PLANTER - REFER TO
LANDSCAPE DRAWINGS
- 03 4" WDE PAINTED WHITE PARKING LOT
STRIPES TYPICAL U.O.N.
- 04 PARKING STALL ACCESSIBILITY SIGN WITH
"VAN ACCESSIBLE PLACARD" - MOUNT
SIGNS ON STEEL STANDARDS - REFER TO
DETAILS 1+2 SHEET A1 FOR MORE
INFORMATION
- 05 ACCESSIBLE PARKING STALLS TYPICAL OF (2)
REFER TO DETAIL FOR MORE INFORMATION
- 06 PARKING LOT ACCESSIBILITY SIGN
REFER TO DETAIL FOR MORE
INFO.
- 07 FLUSH PAVING WITH EDGE OF SIDEWALK
SEE CIVIL DRAWINGS
- 08 PLANTER AREA - REFER TO LANDSCAPE PLAN
- 09 CONCRETE CURB - SEE CIVIL DRAWINGS
- 10 A.C PAVED PARKING AREA - REFER TO CIVIL
DRAWINGS
- 11 OFF-SITE CURB, GUTTER AND SIDEWALK
NOT A PART OF THIS CONTRACT
- 12 TRASH DUMPSTER ENCLOSURE
- 13 CONCRETE VEE GUTTER - SEE CIVIL DWGS
- 14 LIGHT POLE - REFER TO ELEC. DWG.S
- 15 TRELLIS STRUCTURE ABOVE - SEE STRUCTURAL
- 16 TEMPORARY TURNAROUND PER CITY OF
SHAFTER STANDARDS - SEE CIVIL DRAWINGS
- 17 4'-0" PARKING BUMPERS AT FLUSH
SIDEWALK CONDITIONS
- 18 REDWOOD HEADER LOCATED AT PHASE LINE -
ROUGH GRADE ONLY AT PHASE TWO SITE
- 19 ELECTRICAL EQUIPMENT - REFER TO ELEC.
DRAWINGS FOR MORE INFORMATION
- 20 PLUMBING EQUIPMENT - REFER TO PLUMBING
DRAWINGS FOR MORE INFORMATION.

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson	AIA	C 7290
Derek Holdsworth	AIA	C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

**EUCLID AVENUE
SHAFTER, CA.**

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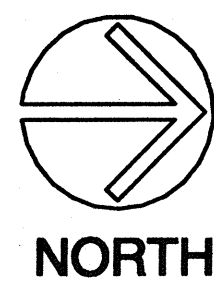
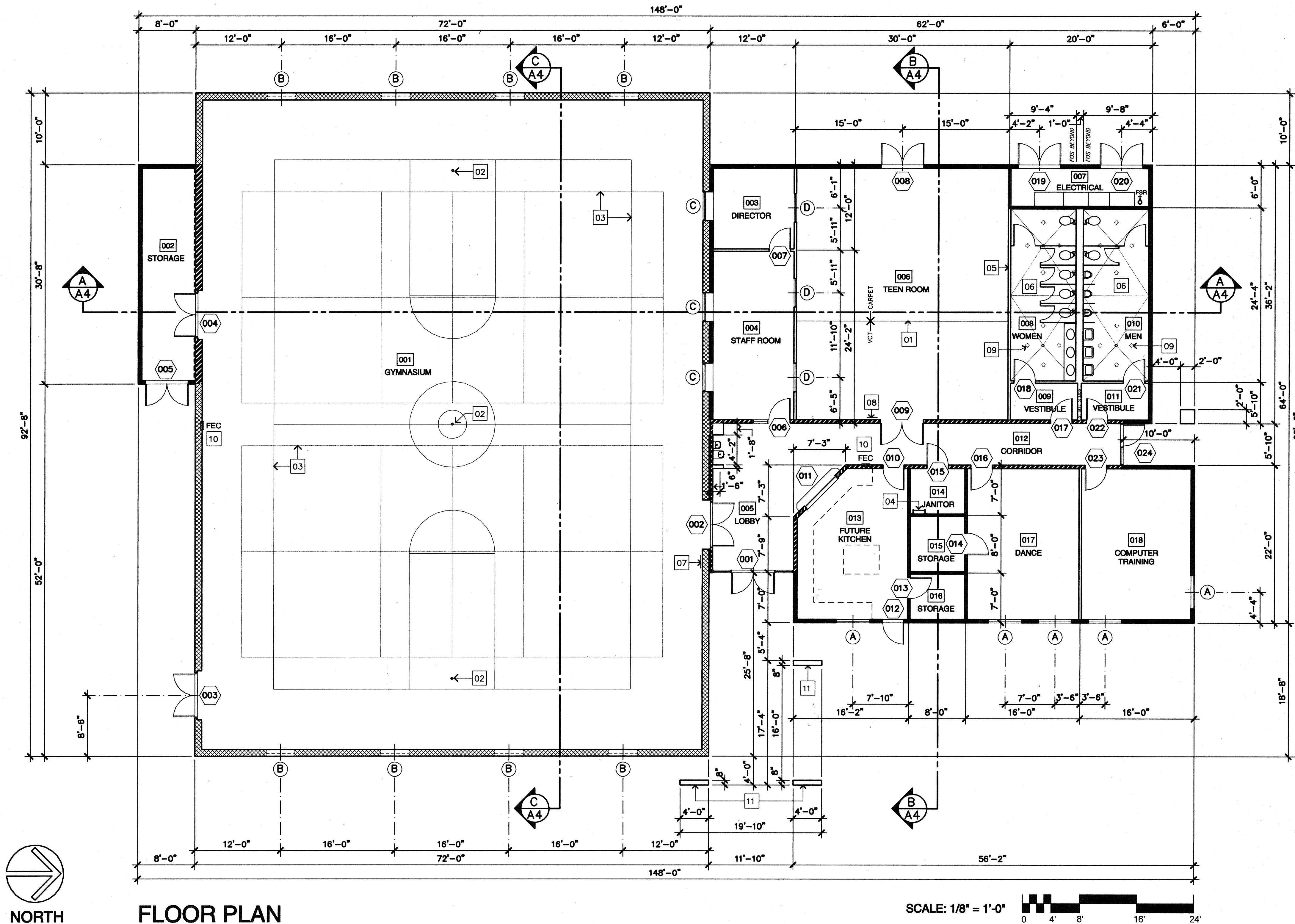
No.	Description	Date
Revisions		

SITE PLAN

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Job No: 2447.01	Sheet No:
Date: 08/16/2002	

A1
sheet

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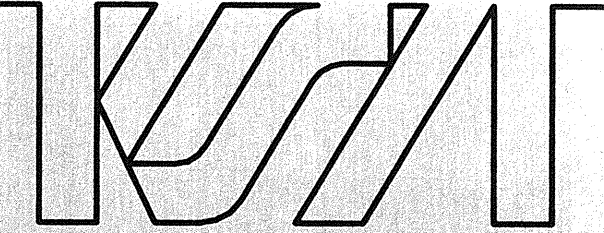


FLOOR PLAN

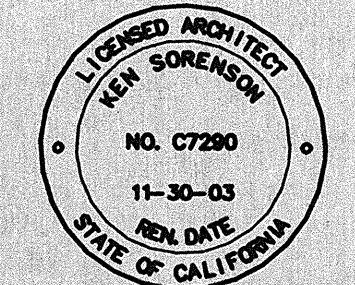
KEY NOTES

- LINE OF FLOOR MATERIAL CHANGE
- CAST-IN-PLACE SLEEVE FOR VOLLEYBALL STANDARDS INSTALL FLUSH W/ F.F.L.
- COURT STRIPES - REFER TO DETAIL 22 SHEET A13 - FOR DIMENSIONED LAYOUT
- ROOF ACCESS LADDER - SEE DTL. 1, SHT A3
- INSULATE TOILET ROOM WALLS AND CEILINGS WITH R-13 BATTS MINIMUM TYP. - EXTERIOR WALLS SHALL BE R-19 TYPICAL
- ADULT ACCESSIBLE TOILET ROOM - REFER TO INTERIOR ELEVATIONS FOR ACCESSORIES AND DETAIL 12, SHT A13 - FOR INSTALLATION AND MOUNTING HEIGHT REQUIREMENTS
- PROVIDE MAXIMUM OCCUPANT LOAD SIGN IN GYMNASIUM: MAXIMUM NUMBER OF OCCUPANTS SHALL NOT EXCEED 423 PERSONS - LETTERS SHALL BE 5/4" HIGH MINIMUM WITH GRADE II CALIFORNIA BRAILLE CHARACTERS BELOW - MOUNT SIGN +60" AFFL TO CENTER OF SIGN SUBMIT SHOP DRAWING FOR ARCHITECTS REVIEW
- PROVIDE MAXIMUM OCCUPANT LOAD SIGN IN TEEN ROOM: MAXIMUM NUMBER OF OCCUPANTS SHALL NOT EXCEED 155 PERSONS - LETTERS SHALL BE 5/4" HIGH MINIMUM WITH GRADE II CALIFORNIA BRAILLE CHARACTERS BELOW - MOUNT SIGN +60" AFFL TO CENTER OF SIGN SUBMIT SHOP DRAWING FOR ARCHITECTS REVIEW
- SLOPE FLOOR TO DRAINS 1/4":12" MAXIMUM
- FIRE EXTINGUISHER CABINET - SEE SPEC'S SEE DETAIL 3, SHEET A2
- COVERED ENTRY STRUCTURE - REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFO.

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE
SHAFTER, CA.

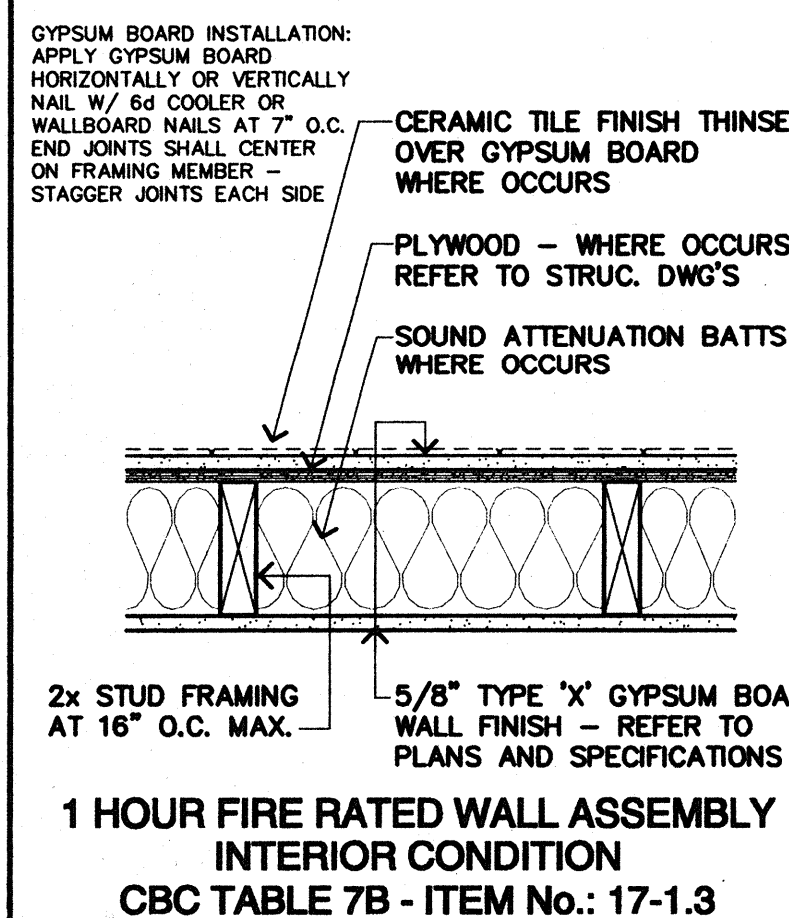
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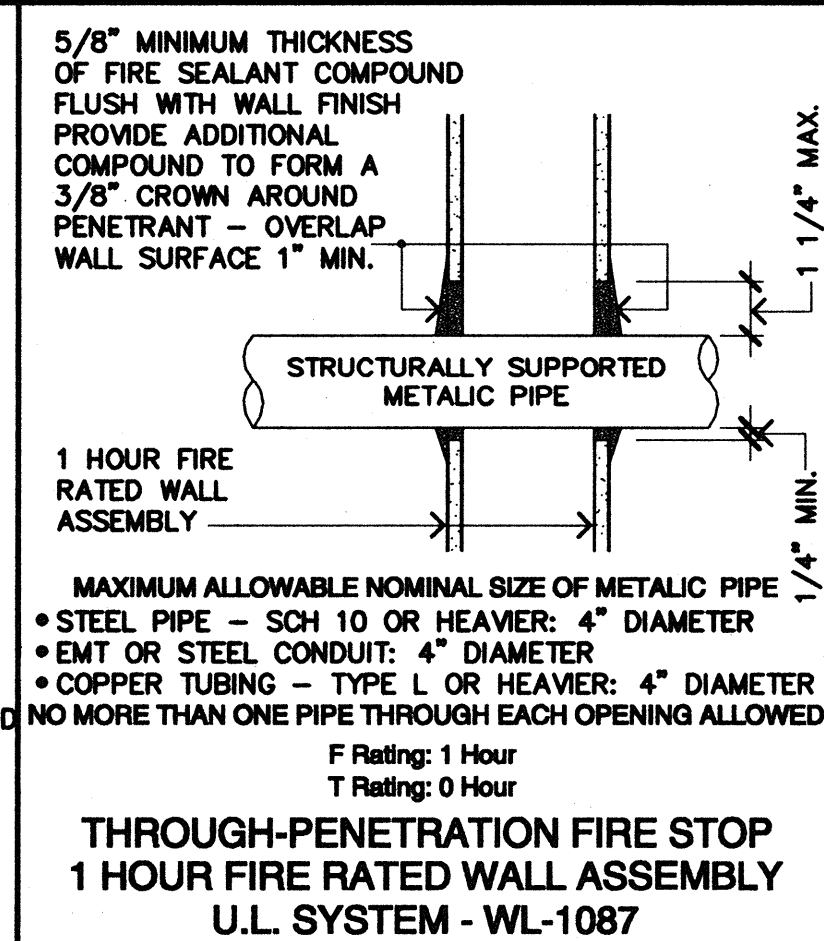
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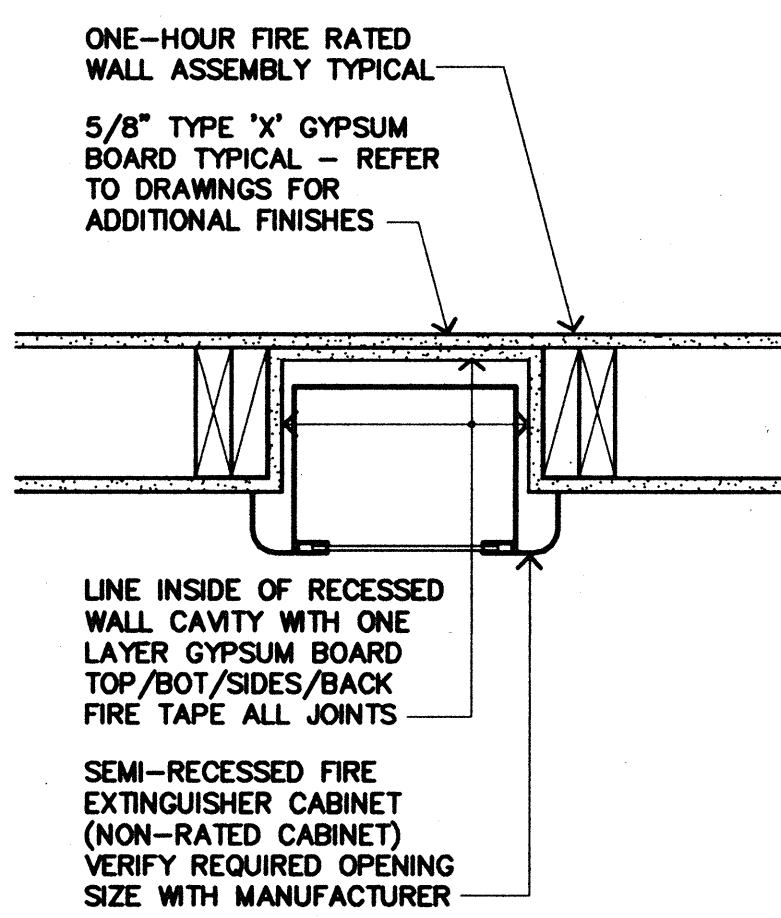
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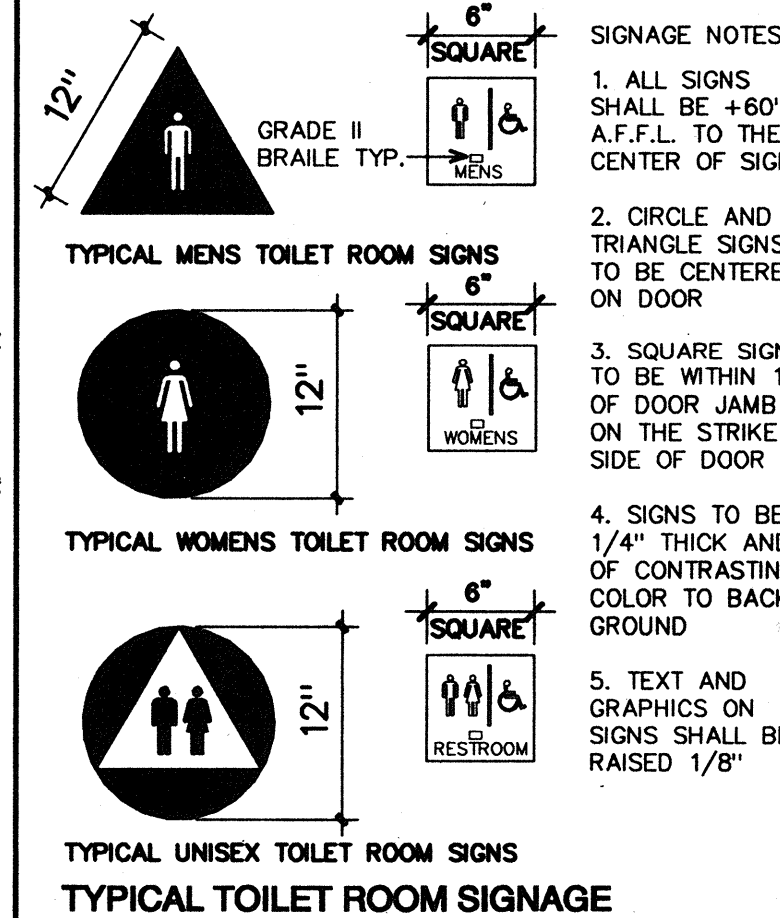
1 FIRE RATED WALL



2 ONE HOUR WALL PENETRATION



3 FIRE EXTINGUISHER CABINET



4 TOILET ROOM SIGNS

WALL LEGEND

- 2x6 STUDS AT 16" O.C. MAX. R-19 BATT INSULATION AT EXTERIOR WALL LOCATIONS TYPICAL U.O.N. (2x4'S WH/ NOTED)
- 2x6 STUDS AT 16" O.C. MAX. ONE HOUR FIRE RATED WALL ASSEMBLY - FROM FLOOR TO ROOF SHEATHING ABOVE (2x4'S WHERE NOTED)
- 3 5/8" METAL STUD INTERIOR WALLS TYPICAL AT NON BEARING INTERIOR WALLS - 25 GAGE MIN. REFER TO SPECIFICATIONS
- 1 1/2" x 11 1/4" TIMBERSTRAND STUDS AT 16" O.C. TYPICAL AT PERIMETER OF GYMNASIUM R-30 BATT INSULATION
- 1 1/2" x 11 1/4" TIMBERSTRAND STUDS AT 16" O.C. - ONE HOUR FIRE RATED WALL ASSEMBLY OCCUPANCY SEPARATION

BUILDING ENVELOPE MANDATORY MEASURES

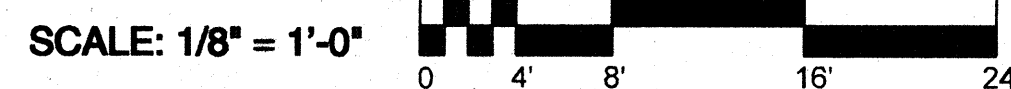
- ALL MANUFACTURED DOORS AND WINDOWS SHALL BE LABELED AND CERTIFIED BY AN INDEPENDENT ORGANIZATION APPROVED BY THE CEC.
- MANUFACTURED DOORS SHALL HAVE AN AIR INFILTRATION RATE NOT EXCEEDING 1 CFM/SQ FT OF DOOR AREA.
- MANUFACTURED WINDOWS SHALL HAVE AN AIR INFILTRATION RATE NOT EXCEEDING 0.37 CFM/FT OF OPERABLE SHASH CRACK
- MANUFACTURED WINDOWS SHALL BE RATED AND CERTIFIED AS TO THEIR OVERALL U-VALUES IN ACCORDANCE WITH THE NATIONAL FENESTRATION COUNCILS NFRC-100-91
- MANUFACTURED WINDOWS SHALL HAVE A PERMANENT LABEL LISTING THE U-VALUE, CERTIFYING ORGANIZATION, AND RATING PROCEDURES.
- JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
- ALL INSULATION SHALL BE CERTIFIED BY THE MANUFACTURER THAT THE INSULATION COMPLIES WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATION MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3.
- ALL INSULATION SHALL COMPLY WITH FLAMESPREAD AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, SECTIONS 2602 & 707.
- OPAQUE PORTIONS OF FRAMED DEMISING WALLS SHALL HAVE INSULATION WITH AN INSTALLED VALUE OF NO LESS THAN R-11 BETWEEN FRAMING MEMBERS.

No.	Description	Date
Revisions		

FLOOR PLAN

Scale:
Job No: 2447.01
Date: 08/16/2002
Sheet No: 2 of 2 sheets

A2



01. CLASS 'A' BUILT-UP ASPHALT ROOFING OVER NAILABLE WOOD DECKING TYPICAL AT WOOD SHEATHED ROOF DECK - REFER TO SPECIFICATIONS
02. CLASS 'A' BUILT-UP ASPHALT ROOFING OVER TAPERED ROOF INSULATION TYPICAL AT METAL DECK - REFER TO SPECIFICATIONS
03. ARROW DENOTES DIRECTION OF ROOF SLOPE SLOPE 1/2:12 TYPICAL
04. 30"x36" ROOF HATCH LOCATION
05. ROOF MOUNTED MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS
06. ROOF DRAIN AND OVERTFLOW LOCATIONS REFER TO PLUMBING DRAWINGS FOR SIZE AND DESTINATION OF LEADERS
07. PLYWOOD CRICKET FRAMED OVER TOP OF STRUCTURAL DECK - 2X FRAMING AT 24" O.C. SLOPED TO DRAINAGE DETENTION - FLOW LINE SLOPE SHALL BE 1/4:12 MINIMUM
08. 24 GAGE GALVANIZED SHEET METAL COPING TYPICAL AT PARAPET WALL
09. PARAPET WALL LOCATION
10. TUBE STEEL TRELLIS STRUCTURE - SEE STRUCTURAL DRAWINGS - PAINT COLOR AS SELECTED BY ARCHITECT
11. ARCHITECTURAL METAL ROOF AT ENTRY STRUCTURE - SEE SPECIFICATIONS
12. PARAPET BRACES AT 8'-0" O.C. MINIMUM SEE STRUCTURAL DRAWINGS - FLASH PENETRATIONS THROUGH ROOF MEMBRANE

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

**EUCLID AVENUE
SHAFTER, CA.**

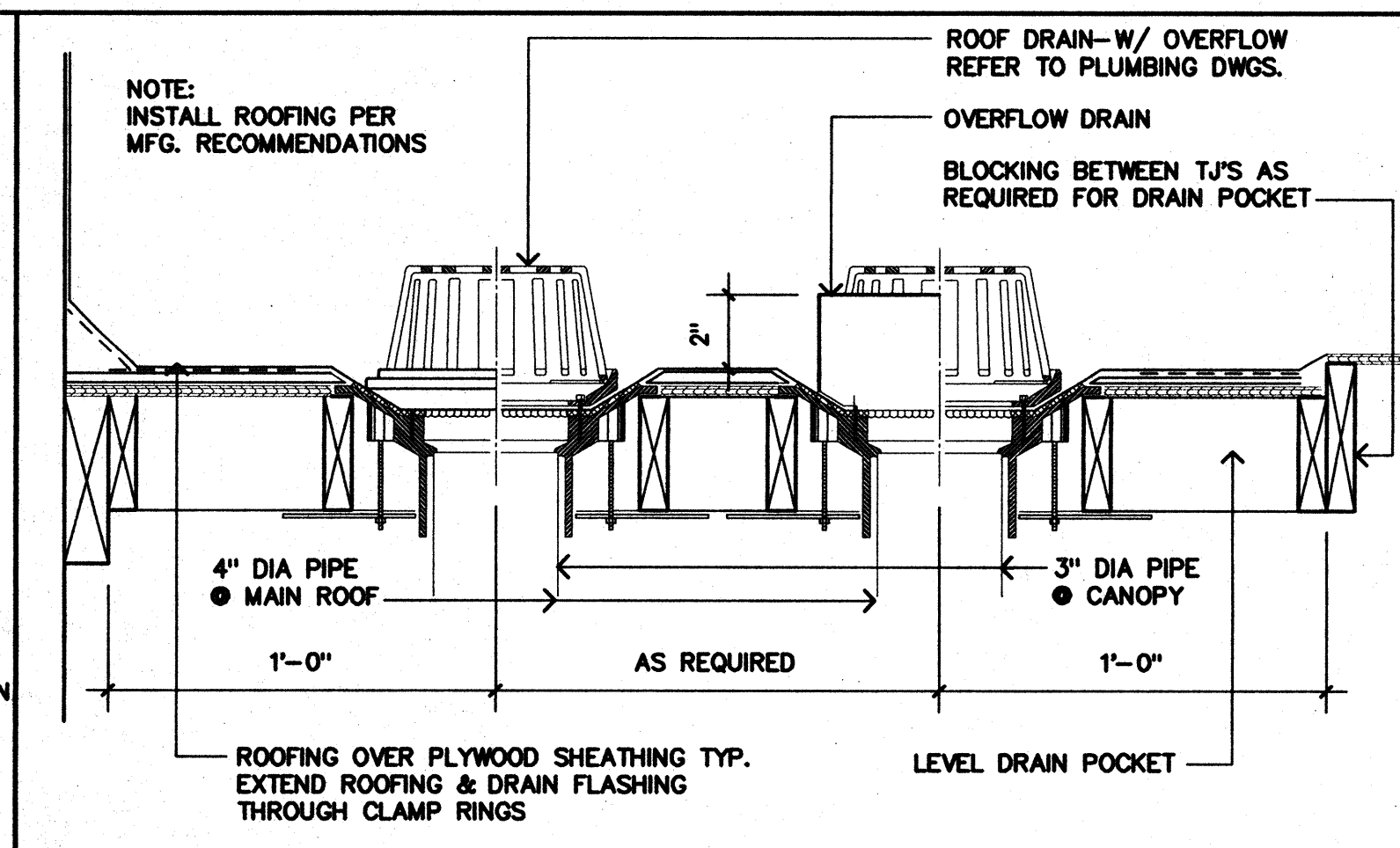
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2 ROOF + OVERFLOW DRAIN

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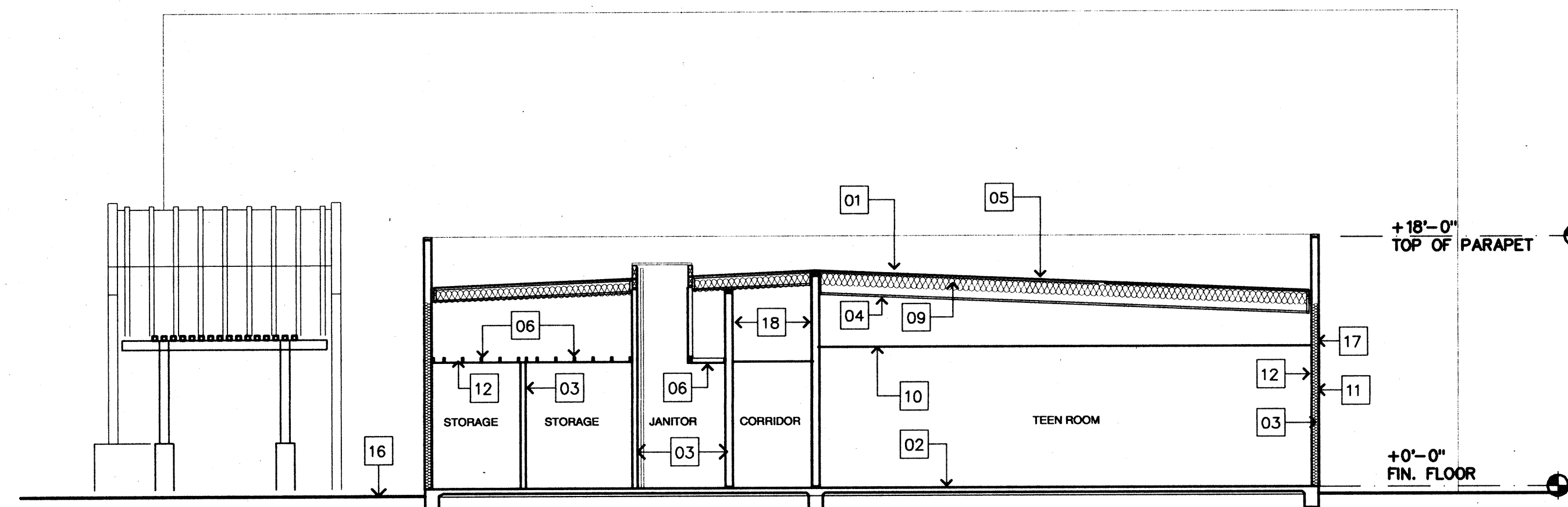
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Revisions		

ROOF PLAN

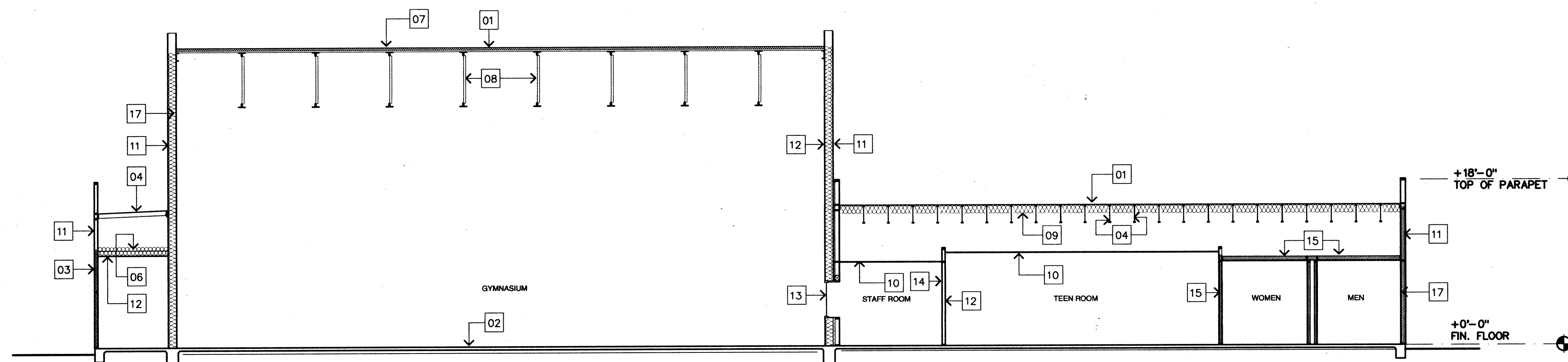
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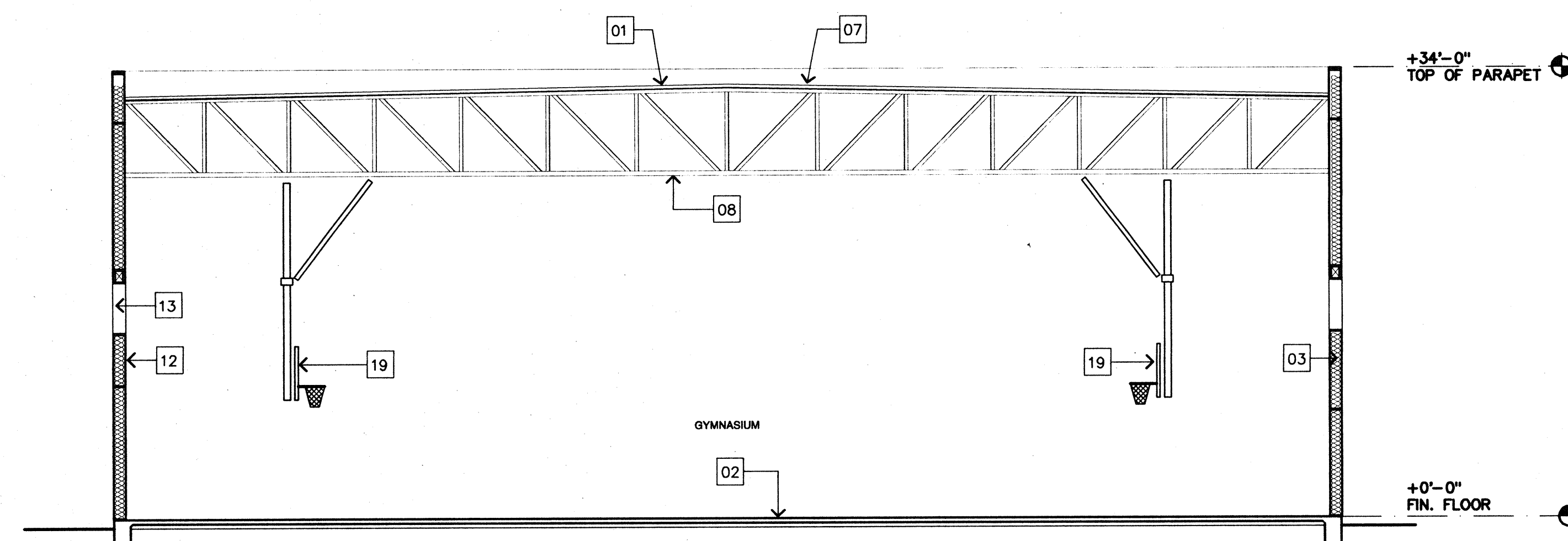
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SECTION - A



SECTION - B



SECTION - C
BUILDING SECTIONS

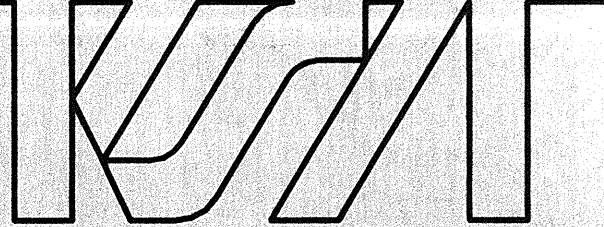
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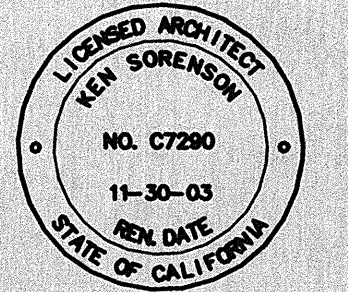
KEY NOTES

01. CLASS 'A' ROOFING MATERIALS TYPICAL - REFER TO ROOF PLAN & SPECIFICATIONS
02. CONCRETE FOUNDATIONS AND SLAB ON GRADE REFER TO STRUCTURAL DRAWINGS
03. WOOD STUD WALL FRAMING AT 16" O.C. MAX. TYPICAL - REFER TO FLOOR PLAN AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
04. ROOF FRAMING - REFER TO STRUCT. DWG'S FOR RAFTER SIZE, TYPE + SPACING TYP.
05. PLYWOOD ROOF SHEATHING - REFER TO STRUCTURAL DRAWINGS
06. WOOD CEILING JOISTS AT 16" O.C. MAXIMUM
07. METAL ROOF DECK WITH TAPERED INSULATION CRICKETS TYPICAL AT GYMNASIUM - R-19 MIN. INSULATION VALUE - REFER TO SPEC'S
08. OPEN WEB STEEL FRAMED TRUSSES TYPICAL AT GYMNASIUM - REFER TO STRUCTURAL DRAWINGS - BOTTOM CHORD 26'-0" A.F.F.L.
09. R-30 BATT INSULATION TYPICAL AT CEILING CONDITIONS REFER TO SPECIFICATIONS
10. NON-RATED SUSPENDED ACOUSTIC TILE CEILING SYSTEM - REFER TO REFLECTED CEILING PLAN AND SPECIFICATIONS FOR ADDITIONAL INFO.
11. EXTERIOR FINISH - REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
12. GYPSUM BOARD INTERIOR FINISH TYPICAL - REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS.
13. WINDOW REFER TO WINDOW TYPE LEGEND AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
14. METAL STUD WALLS - BRACE AT 48" O.C. - ALTERNATE DIRECTION OF BRACES TYPICAL
15. SOUND ATTENUATION BATTS WHERE OCCURS REFER TO SCHEDULE AND SPECIFICATIONS
16. EXTERIOR CONCRETE WALK - REFER TO SITE PLAN AND CIVIL DRAWINGS
17. R-19 BATT INSULATION TYPICAL AT ALL WALLS AT THE EXTERIOR ENVELOPE
18. (1) HOUR FIRE RATED CORRIDOR - WALLS SHALL EXTEND FROM FLOOR SLAB TO FIRE RATED ROOF ASSEMBLY ABOVE PER CBC SECTION 1004.3.4.
19. APPROXIMATE LOCATION OF BASKETBALL BACKSTOP STRUCTURE - SEE STRUCTURAL DWG'S INSTALL PER MANUFACTURER'S REQUIREMENTS

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Haldsworth AIA C 8675

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EUCLID AVENUE
SHAFTER, CA.

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Job No:

2447.01

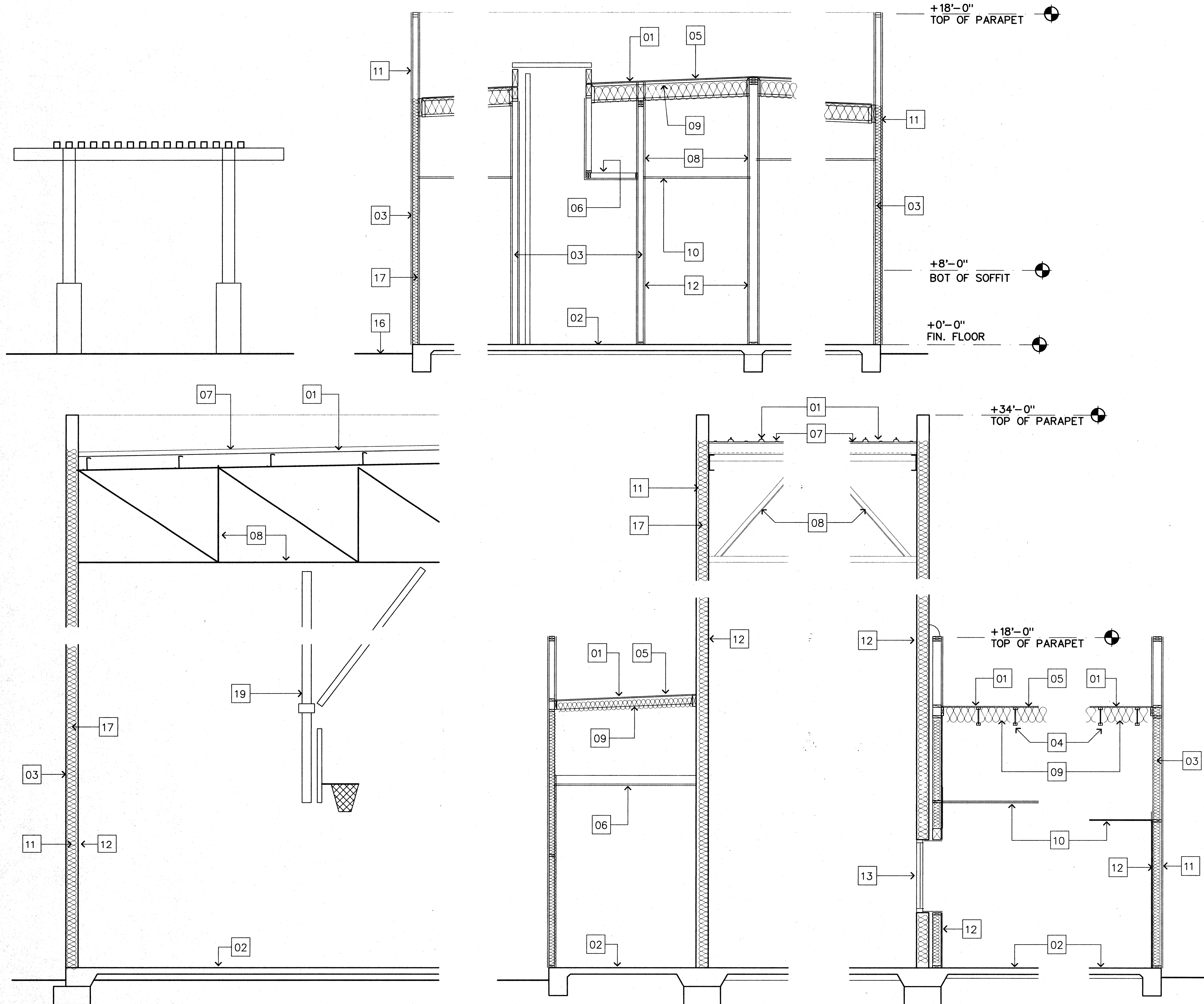
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08/16/2002

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of sheets

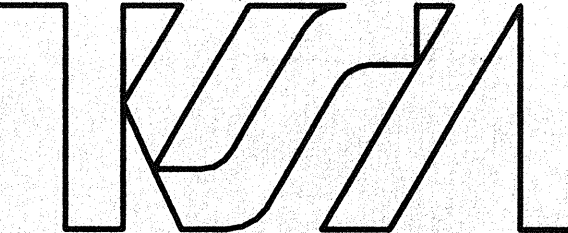
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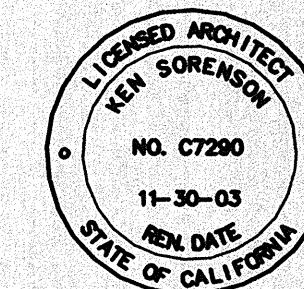
KEY NOTES

01. CLASS 'A' ROOFING MATERIALS TYPICAL - REFER TO ROOF PLAN & SPECIFICATIONS
02. CONCRETE FOUNDATIONS AND SLAB ON GRADE REFER TO STRUCTURAL DRAWINGS
03. WOOD STUD WALL FRAMING AT 16" O.C. MAX. TYPICAL - REFER TO FLOOR PLAN AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
04. ROOF FRAMING - REFER TO STRUCT. DWG'S FOR RAFTER SIZE, TYPE + SPACING TYP.
05. PLYWOOD ROOF SHEATHING - REFER TO STRUCTURAL DRAWINGS
06. WOOD CEILING JOISTS AT 16" O.C. MAXIMUM
07. METAL ROOF DECK WITH TAPERED INSULATION CRICKETS TYPICAL AT GYMNASIUM - R-19 MIN. INSULATION VALUE - REFER TO SPEC'S
08. OPEN WEB STEEL FRAMED TRUSSES TYPICAL AT GYMNASIUM - REFER TO STRUCTURAL DRAWINGS - BOTTOM CHORD 26'-0" A.F.F.L.
09. R-30 BATT INSULATION TYPICAL AT CEILING CONDITIONS REFER TO SPECIFICATIONS
10. NON-RATED SUSPENDED ACOUSTIC TILE CEILING SYSTEM - REFER TO REFLECTED CEILING PLAN AND SPECIFICATIONS FOR ADDITIONAL INFO.
11. EXTERIOR FINISH - REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
12. GYPSUM BOARD INTERIOR FINISH TYPICAL - REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS.
13. WINDOW REFER TO WINDOW TYPE LEGEND AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
14. METAL STUD WALLS - BRACE AT 48" O.C. - ALTERNATE DIRECTION OF BRACES TYPICAL
15. SOUND ATTENUATION BATTS WHERE OCCURS REFER TO SCHEDULE AND SPECIFICATIONS
16. EXTERIOR CONCRETE WALK - REFER TO SITE PLAN AND CIVIL DRAWINGS
17. R-19 BATT INSULATION TYPICAL AT ALL WALLS AT THE EXTERIOR ENVELOPE
18. (1) HOUR FIRE RATED CORRIDOR - WALLS SHALL EXTEND FROM FLOOR SLAB TO FIRE RATED ROOF ASSEMBLY ABOVE PER CBC SECTION 1004.3.4.
19. APPROXIMATE LOCATION OF BASKETBALL BACKSTOP STRUCTURE - SEE STRUCTURAL DWG'S INSTALL PER MANUFACTURER'S REQUIREMENTS

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE
SHAFTER, CA.

COMMUNITY ACTION PARTNERSHIP OF KERN

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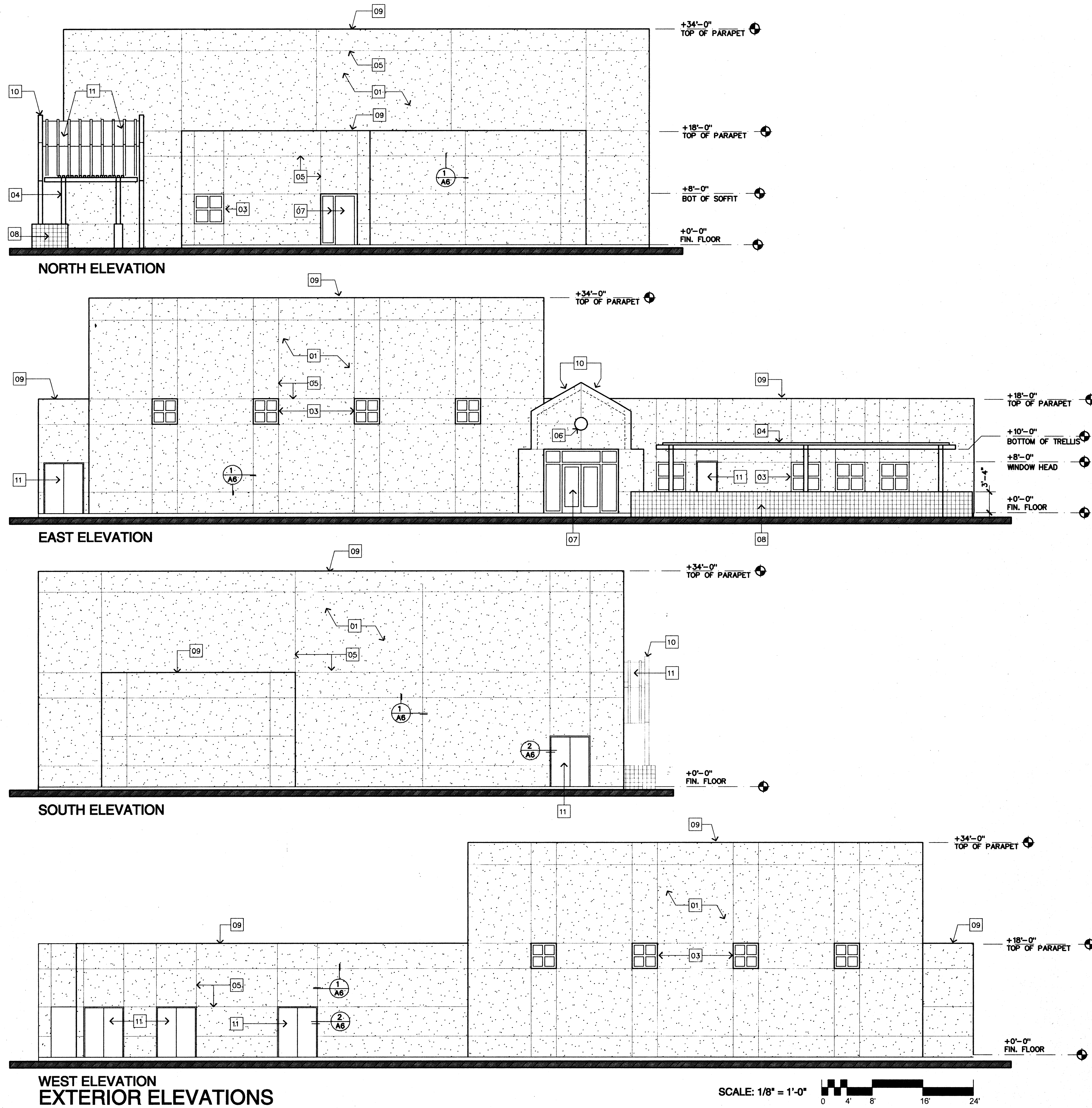
No.	Description	Date

Revisions

partial BUILDING SECTIONS

Scale:
Job No: 2447.01
Date: 08/16/2002
Sheet No: A5
of sheets

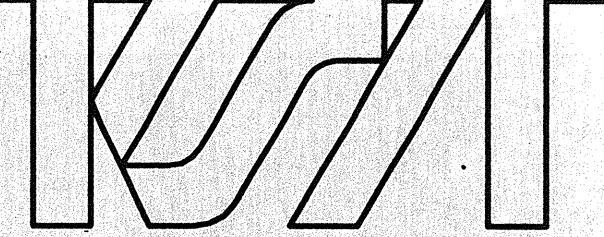
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KEY NOTES

01. CEMENT PLASTER EXTERIOR FINISH - REFER TO SPECIFICATIONS FOR ADDITIONAL INFO.
02. ARCHITECTURAL METAL ROOF PANELS AT ENTRY CANOPY - REFER TO SPECIFICATIONS
03. WINDOW LOCATION - REFER TO FLOOR PLAN AND WINDOW TYPE LEGEND FOR ADDITIONAL INFORMATION
04. STEEL TUBE TRELLIS STRUCTURE - REFER TO STRUCTURAL DRAWINGS FOR MORE INFO.
05. 1/4" WIDE GALVANIZED EXPANSION SCREEDS TYPICAL AT ALL VERTICAL AND HORIZONTAL SCREED LOCATIONS
06. 18" DIA. FINISHED OPENING IN ENTRY WALLS PLASTER INTERIOR EDGES OF OPENING TYPICAL
07. ALUMINUM STOREFRONT ENTRY DOOR AND GLAZING SYSTEM - SEE DOOR TYPE SCHEDULE
08. +3'-4" HIGH C.M.U. PATIO WALL - SCORED IN 8"x8" PATTERN BOTH SIDES OF WALL
09. 24 GAGE GALVANIZED PARAPET CAP WITH CONCEALED CLEAT ATTACHMENT PAINT TO MATCH WALL COLOR TYPICAL
10. PLASTER WALL TOP AND EDGES AT ENTRY STRUCTURE TYPICAL
11. EXTERIOR DOOR LOCATION - REFER TO FLOOR PLAN AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION

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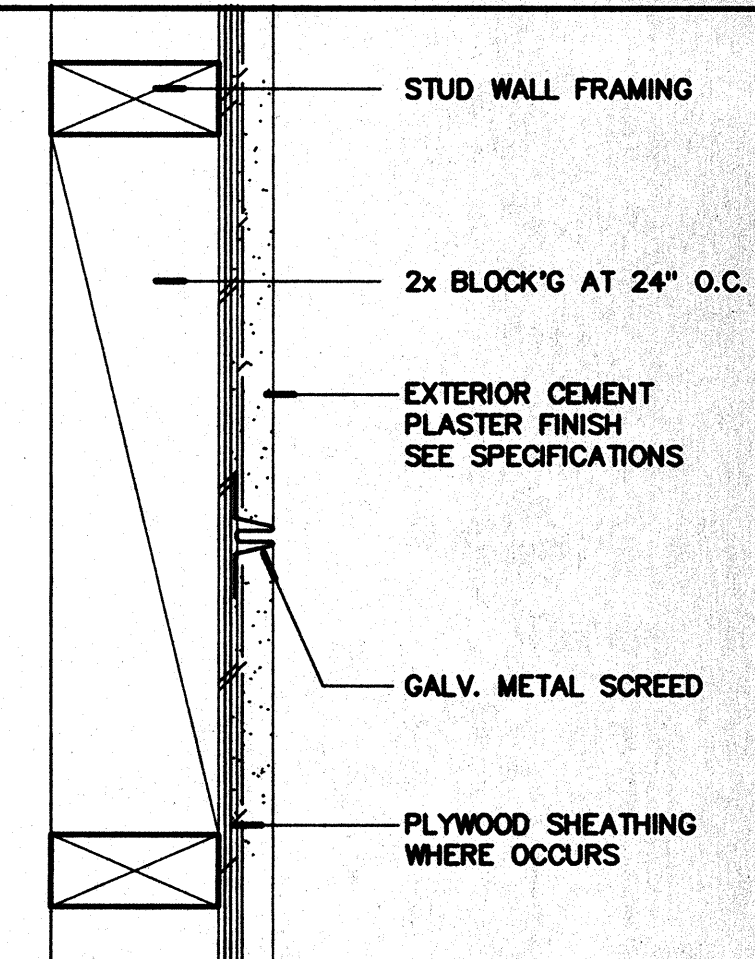
4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376

Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

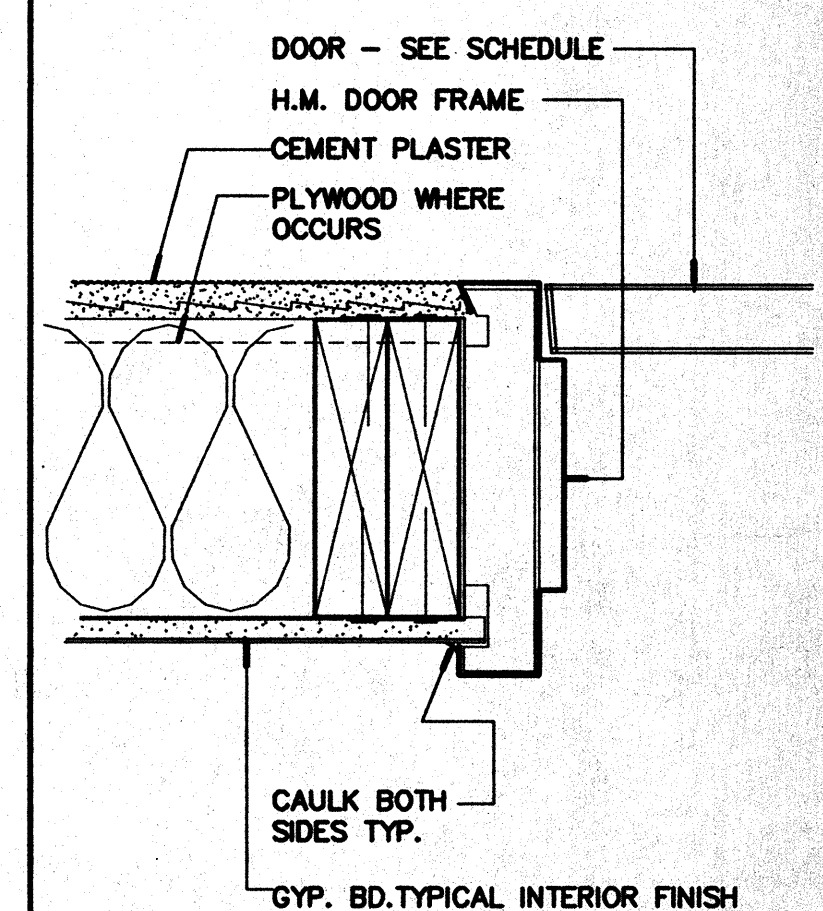
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TYP. VERTICAL SCREED



EXT. H.M. DOOR JAMB

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No.	Description	Date
Revisions		

EXTERIOR ELEVATIONS

Scale:
Job No: 2447.01
Date: 08/16/2002

Sheet No:

A6
of sheets

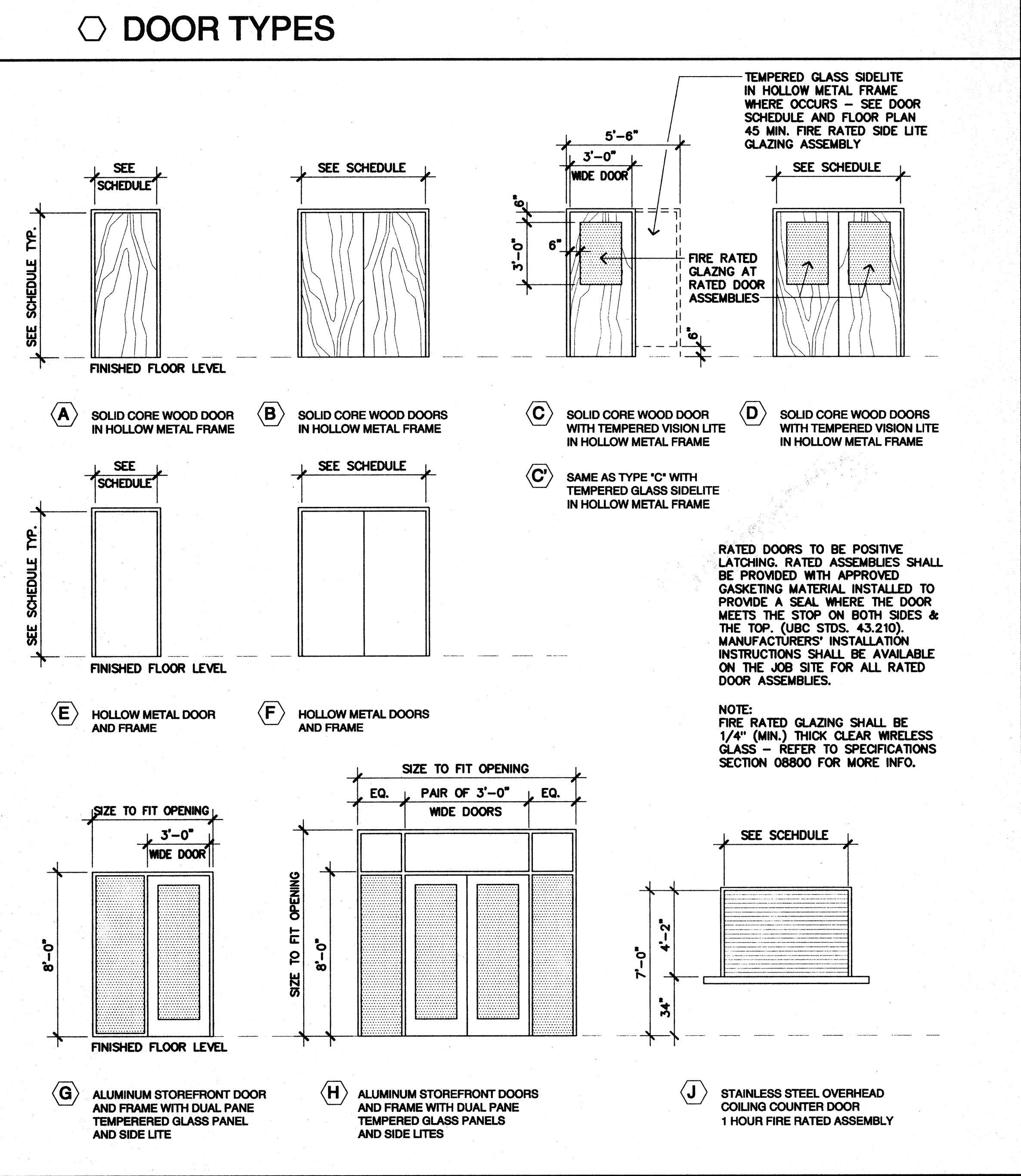
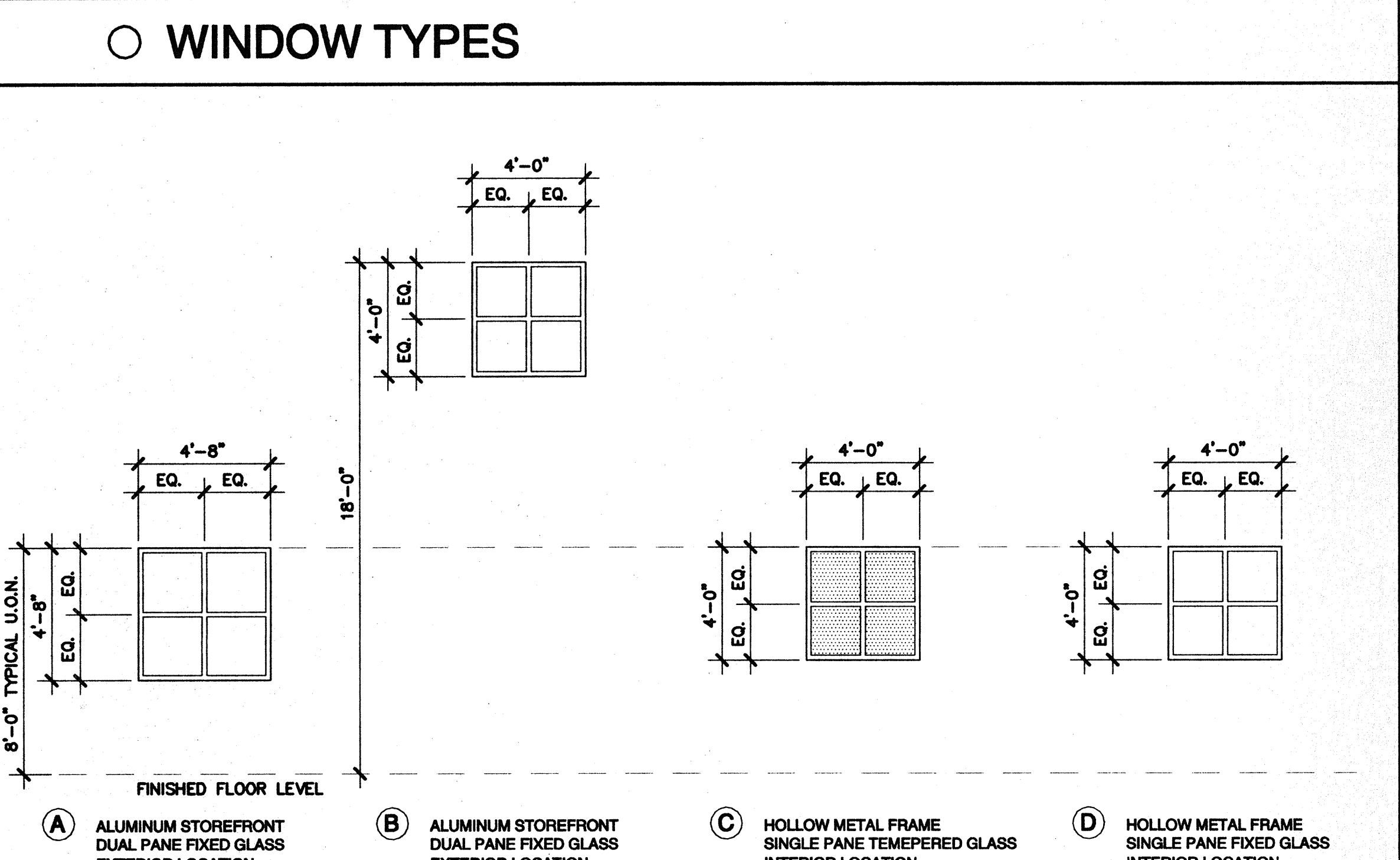
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FINISH SCHEDULE		MATERIAL												FINISH												COLOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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FINISH SCHEDULE LEGEND			
MATERIALS	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	FINISHES	COLORS
A	5/8" GYPSUM BOARD	1 TAPE, TEXTURE + PAINT	A TO BE SELECTED (T.B.S.)
B	5/8" TYPE "X" GYPSUM BOARD	2 PAINT	B SEE SPECIFICATION
C	5/8" MOISURE RESISTIVE GYPSUM BOARD	3 TAPE + SAND JOINTS	C CLEAR
D	CERAMIC TILE THINSET OVER MOISTURE RESISTIVE GYPSUM BOARD	4 FACTORY	D
E	CERAMIC TILE THINSET OVER CONCRETE SLAB	5 CONCRETE SEALER	E
F	VINYL COMPOSITION TILE	6 WAX AND SEAL	F
G	CARPET	7	G
H	5/8" FIBEROCK-VH1 ABUSE RESISTIVE GYPSUM PANEL TO +12'-0" AFFL	8	H
J	ALUMINUM STOREFRONT AND GLAZING SYSTEM	9	J
K	6" HIGH COVED CERAMIC TILE BASE	10	K
L	4" HIGH RUBBER BASE	11	L
M	4" HIGH VENTED RUBBER BASE WITH 3" TOE PROJECTION	12	M
N	ATHLETIC FLOORING - INTERLOCKING TILE SYSTEM	13	N
P	SUSPENSION GRID WITH ACOUSTIC TILE LAY-IN PANELS	14	P
Q	METAL ROOF DECK AND TRUSSES	15	Q
R	EXPOSED FRAMING	16	R
S	CONCRETE SLAB	17	S
T		18	T
U		19	U
V		20	V

SCHEDULED REMARKS			
1	FIBEROCK PANEL TO +12'-0" AFFL - GYPSUM BOARD TO CEILING		
2	REFER TO INTERIOR ELEVATIONS		
3	WAINSCOT OCCURS ABOVE JANITORS SINK TO +4'-0" AFFL		
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DOOR SCHEDULE																	
DOOR NO.	DOOR TYPE	LEAF QTY.	OVERALL DOOR SIZE			HDWR GROUP	ASSEMBLY FIRE RATING	ASSEMBLY LABEL	DOOR			FRAME			DETAILS		
			WIDTH	HEIGHT	THICK				MAT'L	FINISH	COLOR	MAT'L	FINISH	COLOR	HEAD	JAMB	THRES
001	H	PAIR	6'-0"	7'-10"	VARIES	01			ALUM/GL	FACTORY	T.B.S.	ALUM	FACTORY	T.B.S.			
002	D	PAIR	6'-0"	8'-0"	1 3/4"	02	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
003	F	PAIR	6'-0"	8'-0"	1 3/4"	03			H.M.	PAINT	T.B.S.	H.M.	PAINT	T.B.S.			
004	B	PAIR	6'-0"	8'-0"	1 3/4"	04	ONE HOUR		WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
005	F	PAIR	6'-0"	8'-0"	1 3/4"	05			H.M.	PAINT	T.B.S.	H.M.	PAINT	T.B.S.			
006	C	SINGLE	3'-0"	7'-0"	1 3/4"	06	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
007	C	SINGLE	3'-0"	7'-0"	1 3/4"	07			WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
008	F	PAIR	6'-0"	7'-0"	1 3/4"	18			H.M.	PAINT	T.B.S.	H.M.	PAINT	T.B.S.			
009	D	PAIR	6'-0"	7'-0"	1 3/4"	08	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
010	A	SINGLE	3'-0"	7'-0"	1 3/4"	06	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
011	J	N/A	6'-0"	4'-2"	1 3/4"	09	ONE HOUR		S.S.	FACTORY	NATURAL	S.S.	FACTORY	NATURAL			
012	E	SINGLE	3'-0"	8'-0"	1 3/4"	10			H.M.	PAINT	T.B.S.	H.M.	PAINT	T.B.S.			
013	A	SINGLE	3'-0"	7'-0"	1 3/4"	07			WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
014	A	SINGLE	3'-0"	7'-0"	1 3/4"	07			WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
015	A	SINGLE	3'-0"	7'-0"	1 3/4"	11	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
016	C	SINGLE	3'-0"	7'-0"	1 3/4"	12	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
017	A	SINGLE	3'-0"	7'-0"	1 3/4"	13	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
018	A	SINGLE	3'-0"	7'-0"	1 3/4"	14			WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
019	F	PAIR	6'-0"	7'-0"	1 3/4"	15			H.M.	PAINT	T.B.S.	H.M.	PAINT	T.B.S.			
020	F	PAIR	6'-0"	7'-0"	1 3/4"	16			H.M.	PAINT	T.B.S.	H.M.	PAINT	T.B.S.			
021	A	SINGLE	3'-0"	7'-0"	1 3/4"	14			WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
022	A	SINGLE	3'-0"	7'-0"	1 3/4"	13	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
023	C	SINGLE	3'-0"	7'-0"	1 3/4"	12	20 MINUTE	"S"	WOOD	FACTORY	T.B.S.	H.M.	PAINT	T.B.S.			
024	G	SINGLE	3'-0"	7'-10"	VARIES	17			ALUM/GL	FACTORY	T.B.S.	ALUM	FACTORY	T.B.S.			
025																	



KSA GROUP ARCHITECTS

4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376

Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

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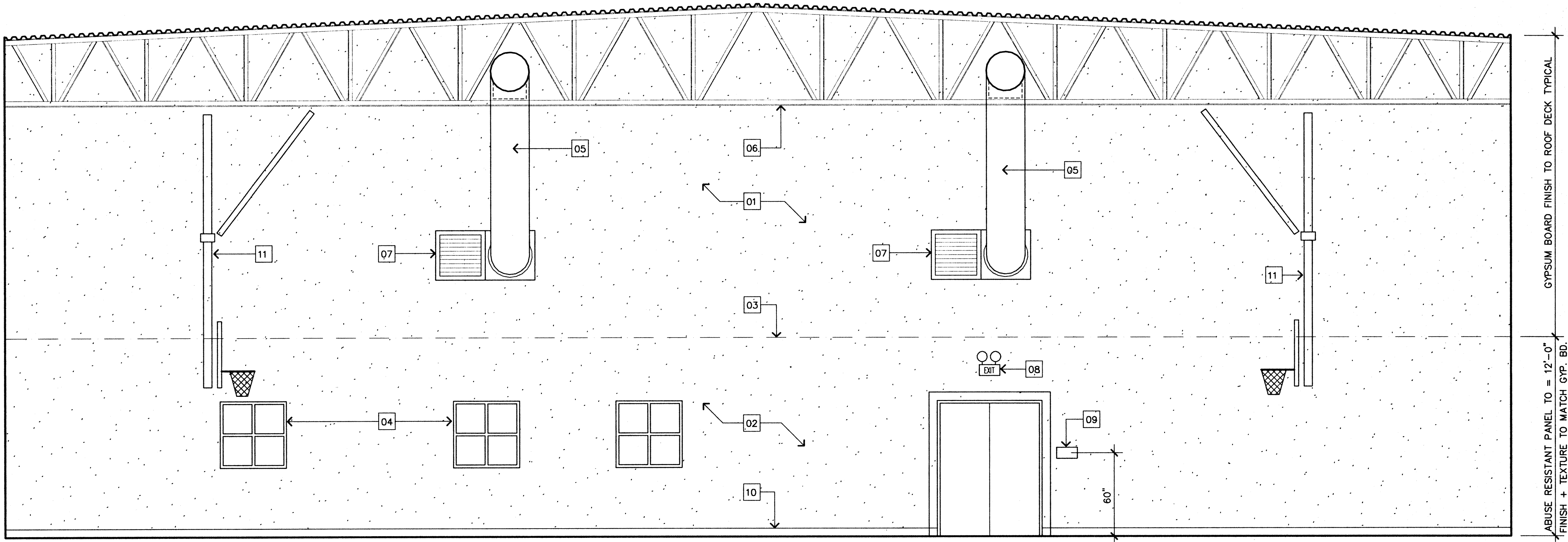
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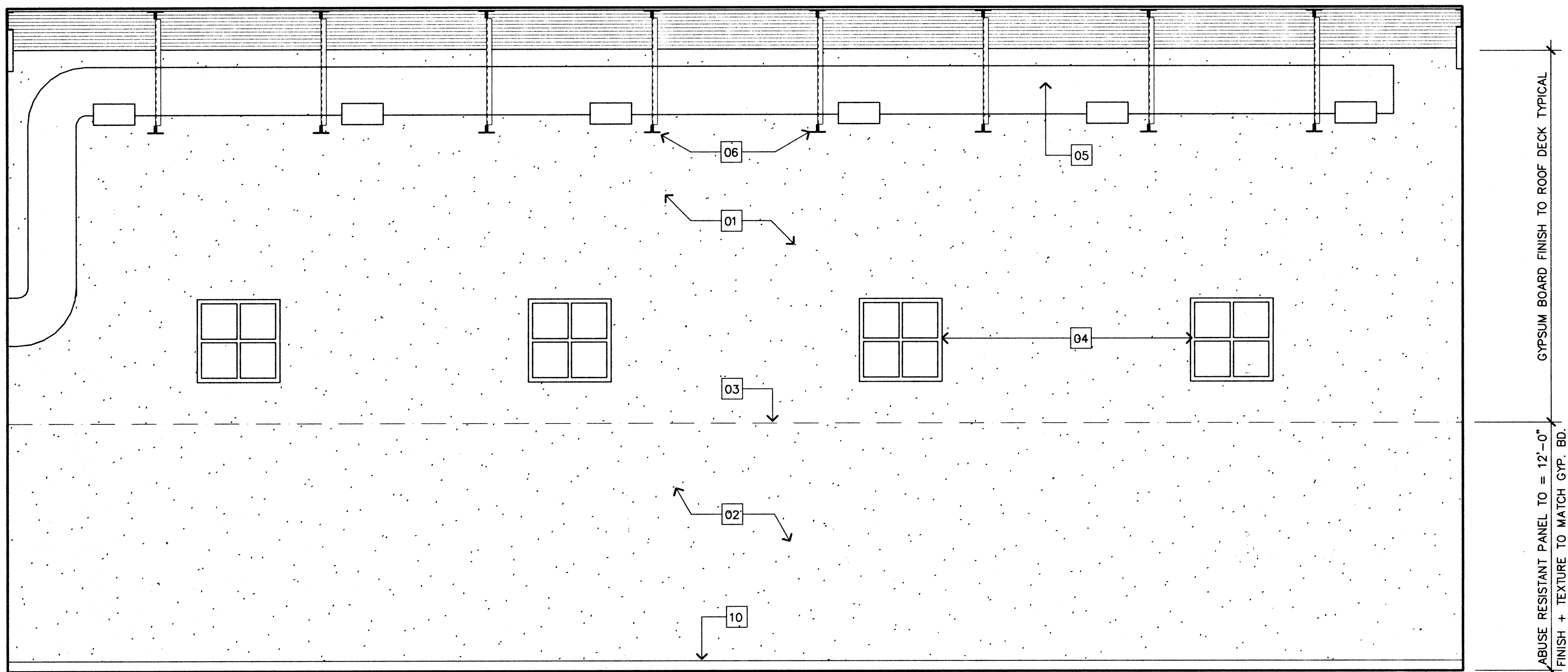
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Revisions			
SCHEDULES			
Scale:			
Job No: 2447.01		Sheet No:	
Date: 08/16/2002		A7 of sheets	

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NORTH

001 GYMNASIUM



EAST

001 GYMNASIUM

INTERIOR ELEVATIONS

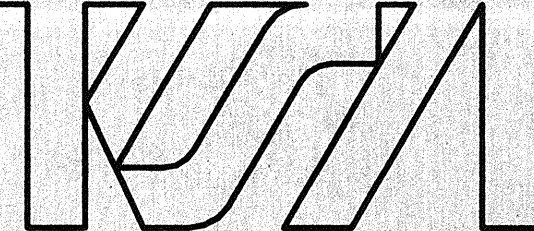
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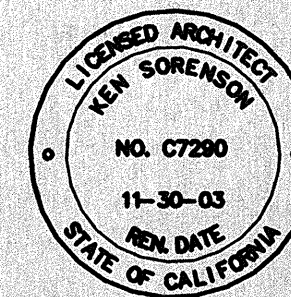
KEY NOTES

01. GYPSUM BOARD INTERIOR WALL FINISHES TYPICAL U.O.N. - REFER TO SPECIFICATIONS
02. ABUSE RESISTIVE GYPSUM FIBER PANEL TO +12'-0" A.F.F.L. - TEXTURE AND FINISH PANELS TO MATCH GYPSUM BOARD TYPICAL.
03. PROVIDE GALVANIZED EXPANSION SCREED AT HORIZONTAL JOINT BETWEEN DISSIMILAR WALL PANELS - REFER TO GYPSUM BOARD SYSTEMS SPECIFICATION FOR MORE INFORMATION
04. WINDOW LOCATION - REFER TO WINDOW TYPES SHEET A7, FLOOR PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
05. EXPOSED MECHANICAL DUCTS - REFER TO MECHANICAL DRAWINGS - PAINT COLOR AS SELECTED BY ARCHITECT
06. MANUFACTURED OPEN WEB STEEL JOISTS - BOTTOM CHORD TO BE +26'-0" A.F.F.L. REFER TO STRUCTURAL DRAWINGS - PAINT ACCENT COLOR TO BE SELECTED BY ARCHITECT
07. RETURN AIR GRILLE LOCATION - REFER TO MECHANICAL DRAWINGS - PAINT COLOR AS SELECTED BY ARCHITECT
08. WALL MOUNTED EXIT SIGN AND EMERGENCY LIGHTS - REFER TO ELECTRICAL DRAWINGS
09. WALL MOUNTED MAXIMUM OCCUPANCY SIGN REFER TO FLOOR PLAN FOR SPECIFIC TEXT REQUIREMENTS.
10. VENTED RUBBER BASE TYPICAL AT ATHLETIC FLOORING LOCATIONS - REFER TO ATHLETIC FLOORING SPECIFICATION
11. CEILING HUNG BASKETBALL BACKSTOP AND SUPPORT STRUCTURE - ANCHOR TO STRUCTURE PER MANUFACTURERS REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE
SHAFTER, CA.

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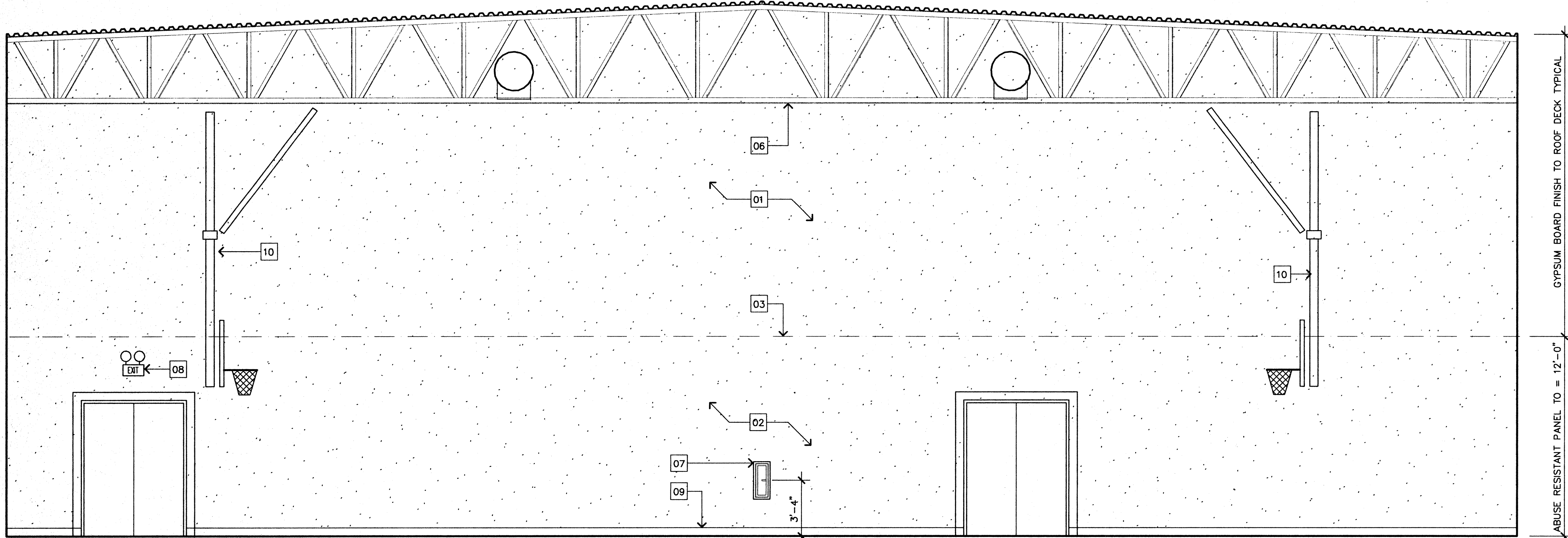
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Revisions

INTERIOR ELEVATIONS

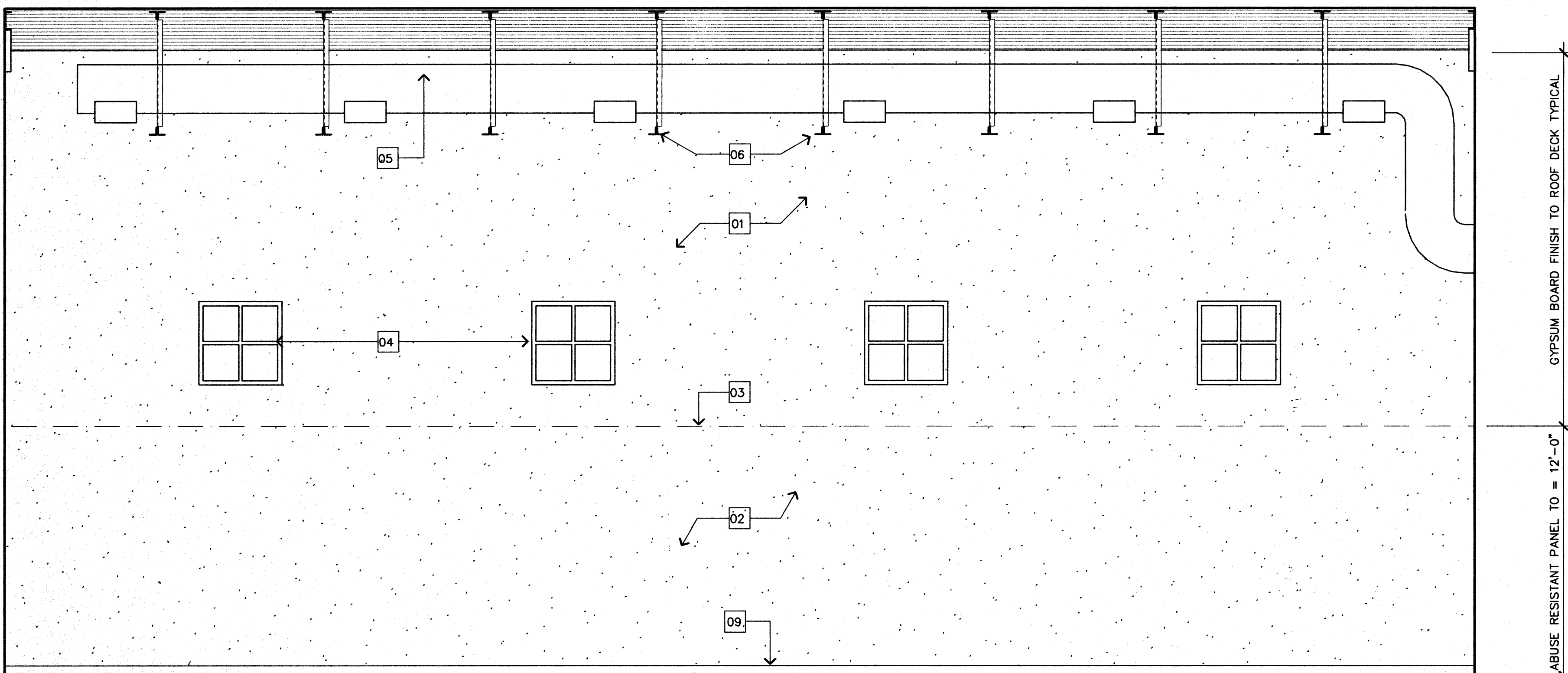
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Date: 08/16/2002
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SOUTH

001 GYMNASIUM

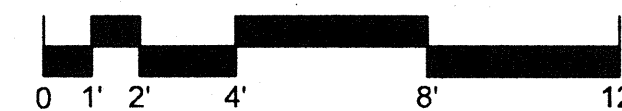


WEST

001 GYMNASIUM

INTERIOR ELEVATIONS

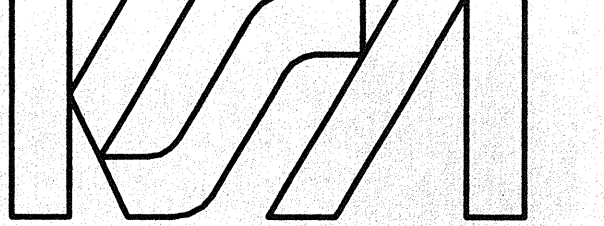
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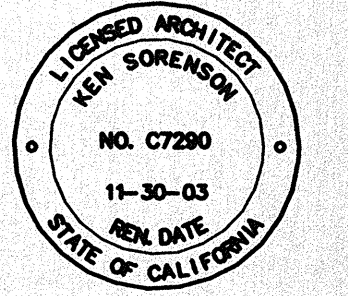
KEY NOTES

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04. WINDOW LOCATION - REFER TO WINDOW TYPES SHEET A7, FLOOR PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
05. EXPOSED MECHANICAL DUCTS - REFER TO MECHANICAL DRAWINGS - PAINT COLOR AS SELECTED BY ARCHITECT
06. MANUFACTURED OPEN WEB STEEL JOISTS - BOTTOM CHORD TO BE +26'-0" A.F.F.L. REFER TO STRUCTURAL DRAWINGS - PAINT ACCENT COLOR TO BE SELECTED BY ARCHITECT
07. SEMI-RECESSED FIRE EXTINGUISHER CABINET REFER TO SPECIFICATIONS
08. WALL MOUNTED EXIT SIGN AND EMERGENCY LIGHTS - REFER TO ELECTRICAL DRAWINGS
09. VENTED RUBBER BASE TYPICAL AT ATHLETIC FLOORING LOCATIONS - REFER TO ATHLETIC FLOORING SPECIFICATION
10. CEILING HUNG BASKETBALL BACKSTOP AND SUPPORT STRUCTURE - ANCHOR TO STRUCTURE PER MANUFACTURERS REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

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Revisions

INTERIOR ELEVATIONS

Scale:
Job No: 2447.01
Date: 08/16/2002

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of sheets



005 LOBBY



006 TEEN ROOM



006 TEEN ROOM - CONTINUED



008 WOMEN REFER TO DETAIL 12, SHEET A13 FOR TYPICAL ACCESSIBLE TOILET ACCESSORY MOUNTING HEIGHTS



010 MEN REFER TO DETAIL 12, SHEET A13 FOR TYPICAL ACCESSIBLE TOILET ACCESSORY MOUNTING HEIGHTS



01. GYPSUM BOARD INTERIOR WALL FINISHES TYPICAL U.O.N. - REFER TO SPECIFICATIONS
02. WINDOW LOCATION - REFER TO WINDOW TYPES SHEET A7, FLOOR PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
03. RUBBER BASE - SEE SPECIFICATIONS
04. DOOR LOCATION - SEE FLOOR PLAN + DOOR TYPE SCHEDULE FOR ADDITIONAL INFORMATION
05. WALL MOUNTED MAXIMUM OCCUPANCY SIGN - REFER TO FLOOR PLAN FOR SPECIFIC TEXT REQUIREMENTS.
06. ALUMINUM STOREFRONT DOORS AND GLAZING SYSTEM - REFER TO DOOR TYPE SCHEDULE AND SPECIFICATIONS TYPICAL
07. S.S. OVERHEAD COILING COUNTER DOOR, JAMBS, HEAD AND COUNTER TOP - ONE HOUR FIRE RATED ASSEMBLY MINIMUM - SEE SPECIFICATIONS
08. CHILLED DRINKING FOUNTAIN LOCATION - SEE PLUMBING AND ELECTRICAL DRAWINGS
09. LINE OF CEILING IN CORRIDOR BEYOND
10. CERAMIC TILE WALL FINISH - COLOR TO BE SELECTED - REFER TO SPECIFICATIONS
11. TOILET PARTITION LOCATIONS - REFER TO FLOOR AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
12. PLASTIC LAMINATE COUNTER TOP, EDGES AND SPLASHES - REFER TO SPECIFICATIONS
13. PROVIDE BACKING AT GRAB BAR ATTACHMENT LOCATIONS - SEE DETAIL 7, SHEET A13
14. SANITARY COVED CERAMIC TILE BASE
15. INSULATE ALL EXPOSED WATER AND DRAIN PIPING WITH TRIPLE W-LAY-UP OF PVC INSULATIVE COVERS - COLOR TO BE SELECTED BY ARCHITECT 800/340-5969

LICENSED ARCHITECT
 KEN SORENSON
 NO. C7290
 11-30-03
 EXPIRATION DATE
 STATE OF CALIFORNIA

Ken Sorenson	AIA	C 7290
Derek Holdsworth	AIA	C 8675

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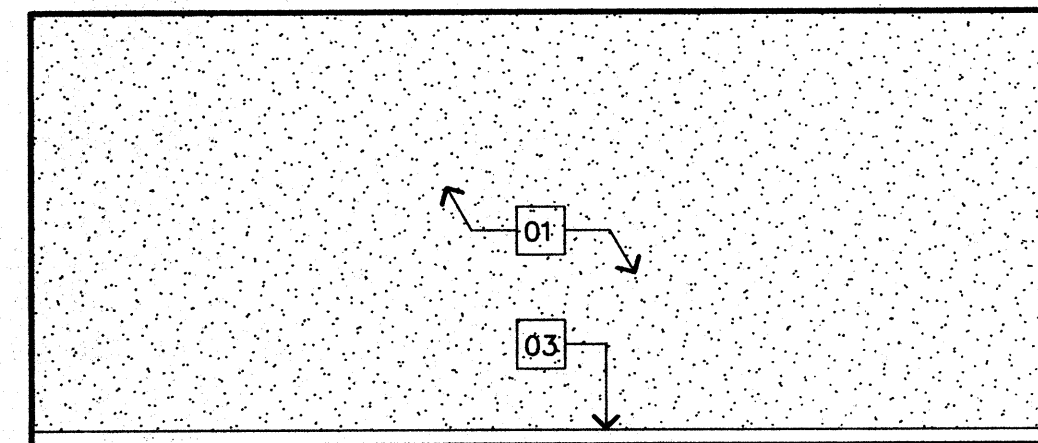
☐ TOILET ACCESSORY
SCHEDULE

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

SYMBOL	DESCRIPTION	MODEL
FRM	FRAMED MIRROR 24"x36"	B-165
GB3	GRAB BAR - 36" LONG	B-6106
GB4	GRAB BAR - 48" LONG	B-6106
LSD	LIQUID SOAP DISPENSER	B-40
PIT	COMBINATION PAPER TOWEL/ TRASH RECEPTACLE	B-3944
SND	SANITARY NAPKIN DISPOSAL	B-254
SNV	SANITARY NAPKIN VENDOR	B-3500
TPD	TOILET PAPER DISPENSER WITH THEFT RESISTANT SPINDLES	B-6867.60
TSC	TOILET SEAT COVER DISPENSER	B-221

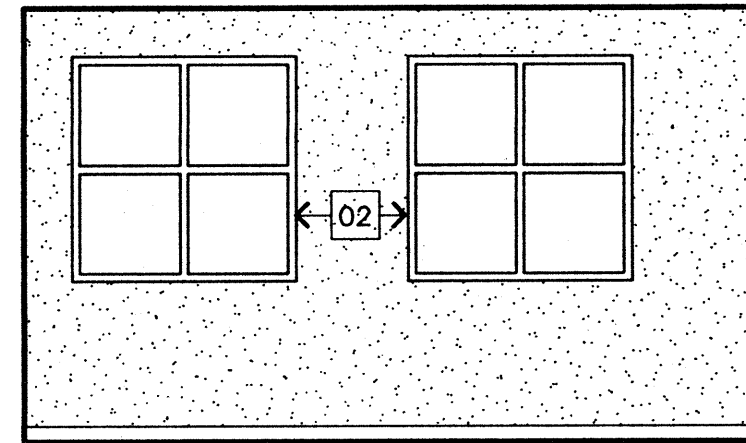
INTERIOR ELEVATIONS

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Date:	08/16/2002			

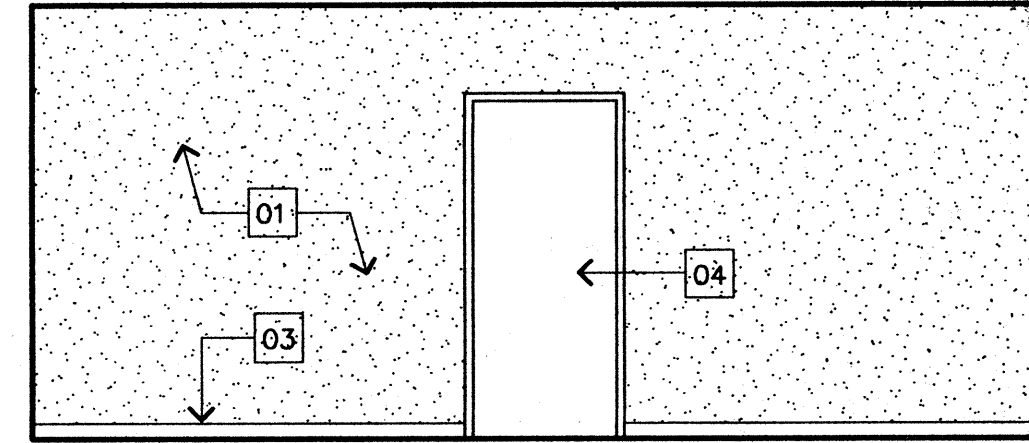


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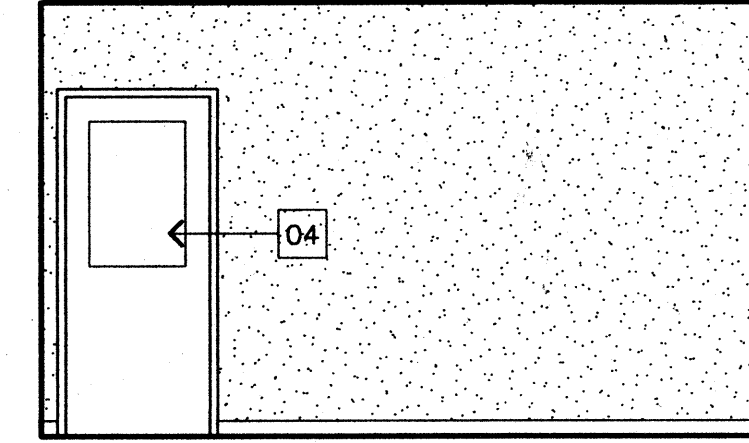
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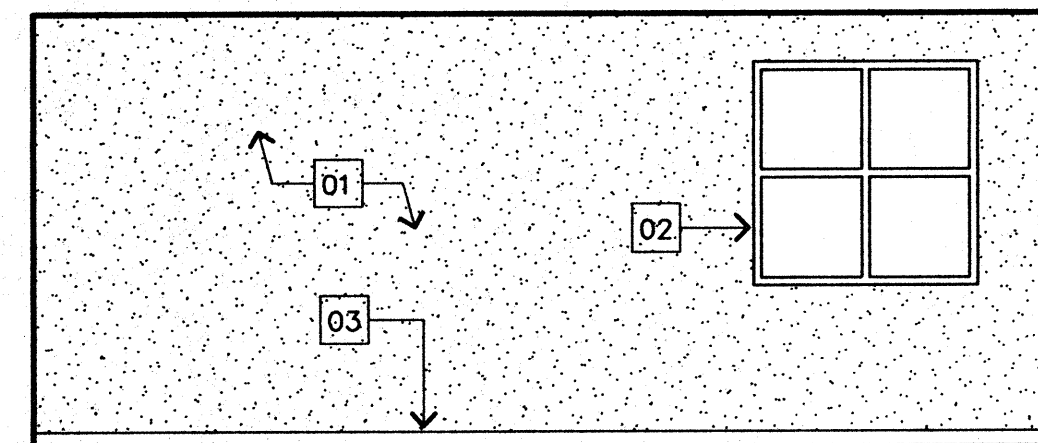
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SOUTH

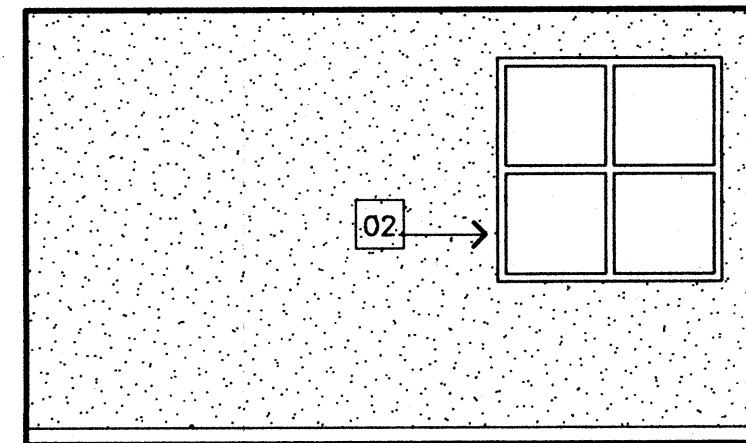


WEST

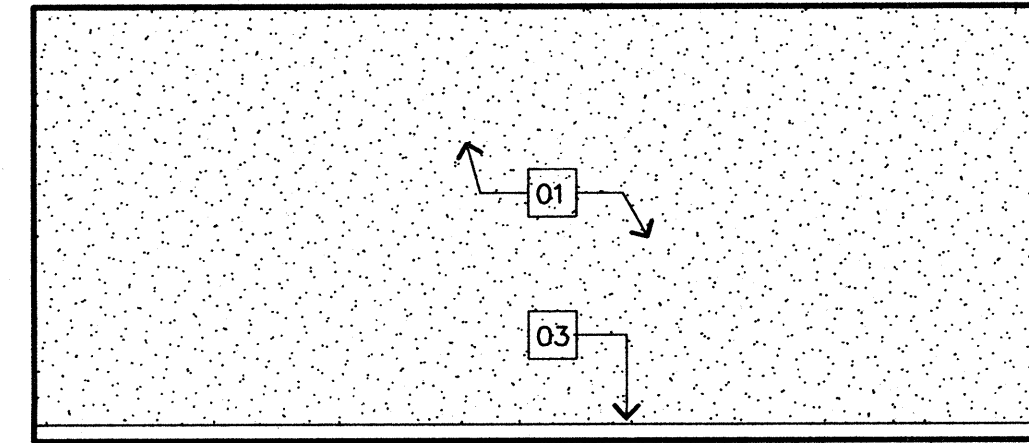


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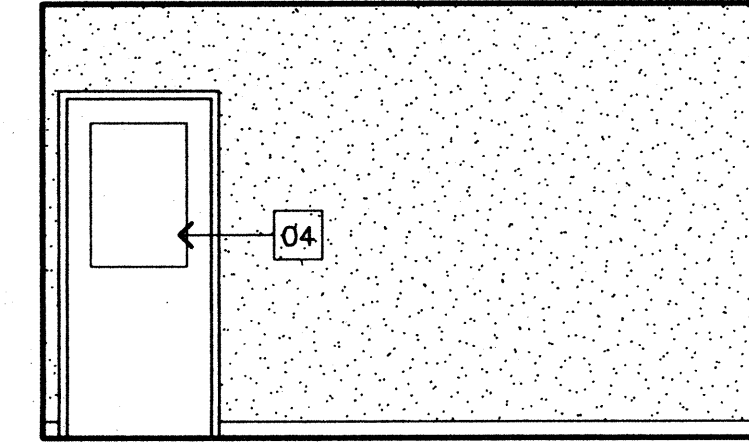
018 COMPUTER TRAINING



EAST



SOUTH



WEST

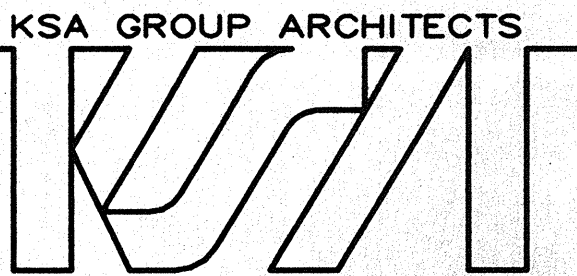
INTERIOR ELEVATIONS

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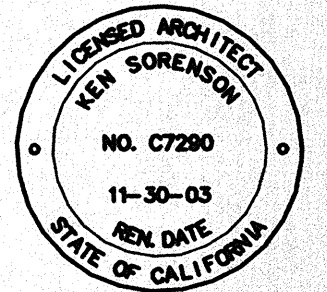


KEY NOTES

01. GYPSUM BOARD INTERIOR WALL FINISHES TYPICAL
U.O.N. - REFER TO SPECIFICATIONS
02. WINDOW LOCATION - REFER TO WINDOW TYPES
SHEET A7, FLOOR PLAN AND SPECIFICATIONS
FOR ADDITIONAL INFORMATION
03. RUBBER BASE - SEE SPECIFICATIONS
04. DOOR LOCATION - SEE FLOOR PLAN + DOOR
TYPE SCHEDULE FOR ADDITIONAL INFORMATION



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson	AIA	C 7290
Derek Holdsworth	AIA	C 8675

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Revisions	

INTERIOR ELEVATIONS

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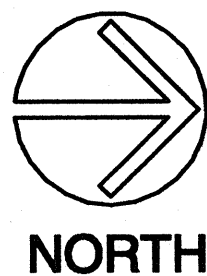
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2447.01

Date: 08/16/2002

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REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

- ### KEY NOTES
01. CEMENT PLASTER EXTERIOR SOFFITS TYPICAL
 02. GYPSUM BOARD CEILINGS / SOFFITS TYPICAL REFER TO FINISH SCHEDULE / INT. ELEV.S
 03. SUSPENDED ACOUSTIC CEILING SYSTEM - REFER TO DTL 1, SHT A12 FINISH SCHEDULE + SPEC'S
 04. 30" x 36" ROOF ACCESS - REFER TO DETAIL 1, SHEET A3
 05. EXPOSED METAL ROOF DECK AND OPEN WEB ROOF TRUSSES - REFER TO STRUCTURAL DRAWINGS - PAINT DECKING AND TRUSSES SHALL BE ACCENT COLOR - TRUSS AND DECK COLORS TO BE SELECTED BY ARCHITECT
 06. EXPOSED MECHANICAL DUCTS AND REGISTER'S REFER TO MECHANICAL DRAWINGS - PAINT COLOR AS SELECTED BY ARCHITECT
 07. APPROXIMATE LOCATION OF SUSPENDED BACKSTOP - COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER
 08. TUBE STEEL TRELLIS STRUCTURE - REFER TO STRUCTURAL DRAWINGS - PAINT COLOR TO BE SELECTED BY ARCHITECT
 09. TUBE STEEL FRAMING WITH CELLULAR METAL DECK AT ENTRY STRUCTURE - REFER TO STRUCTURAL DRAWINGS - PAINT COLOR AS SELECTED BY ARCHITECT
 10. EXIT LIGHT - SEE ELECTRICAL DRAWINGS
 11. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

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Bakersfield, California 93309
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Ken Sorenson AIA C 7290
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GYMNASIUM AND
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BUILDING**

**EUCLID AVENUE
SHAFTER, CA.**

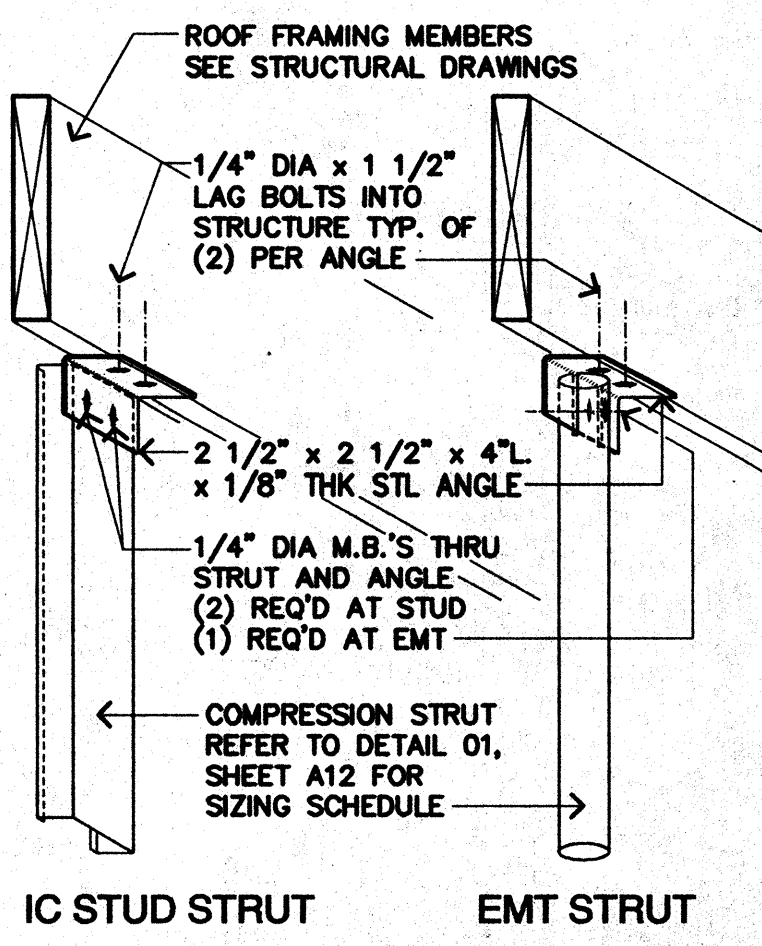
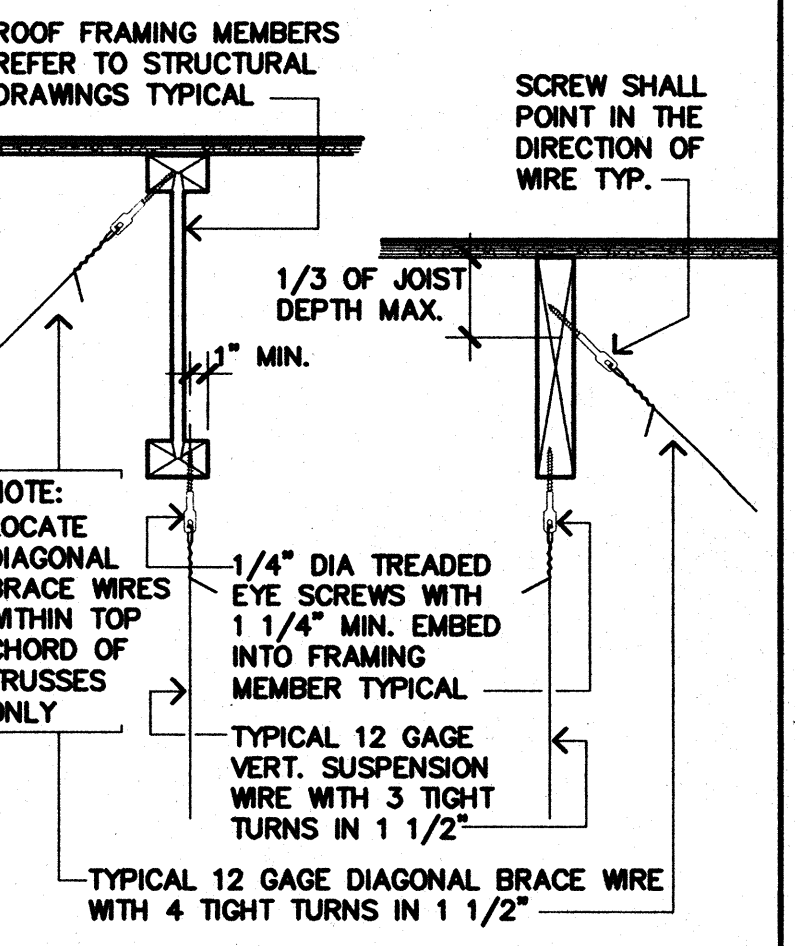
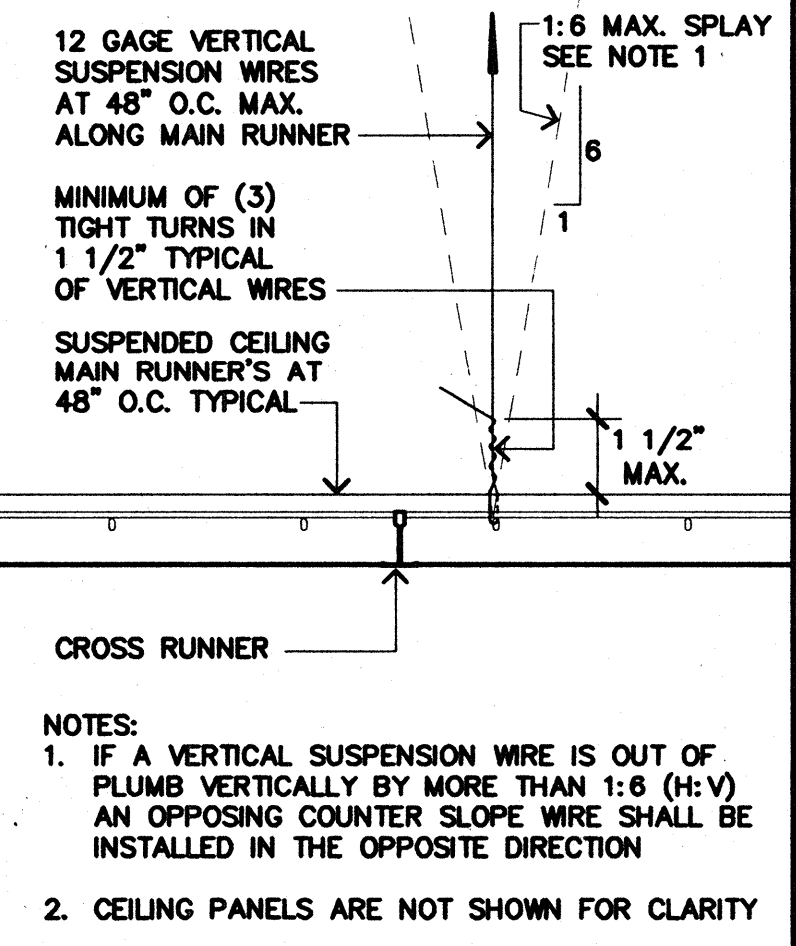
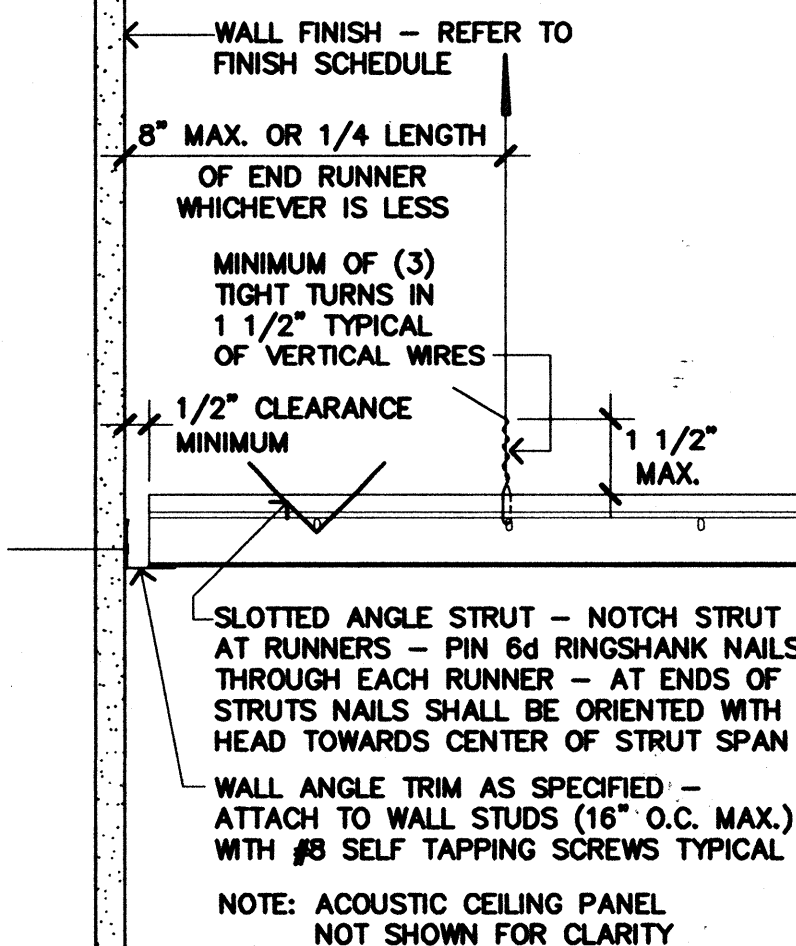
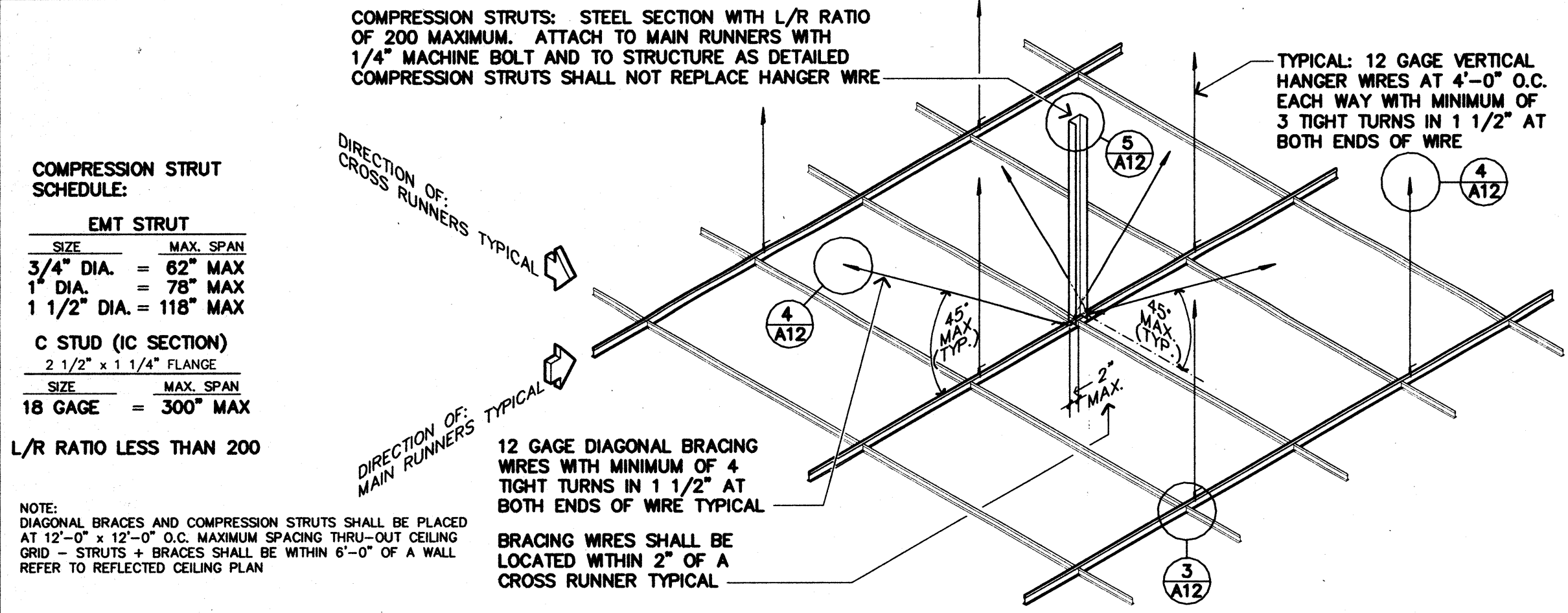
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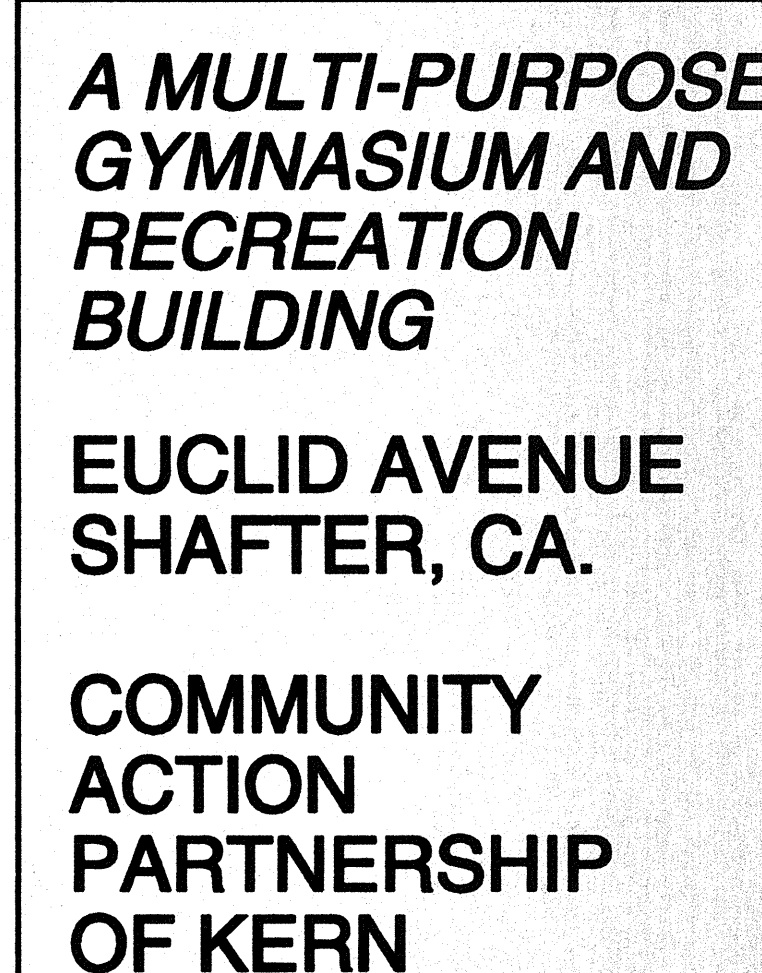
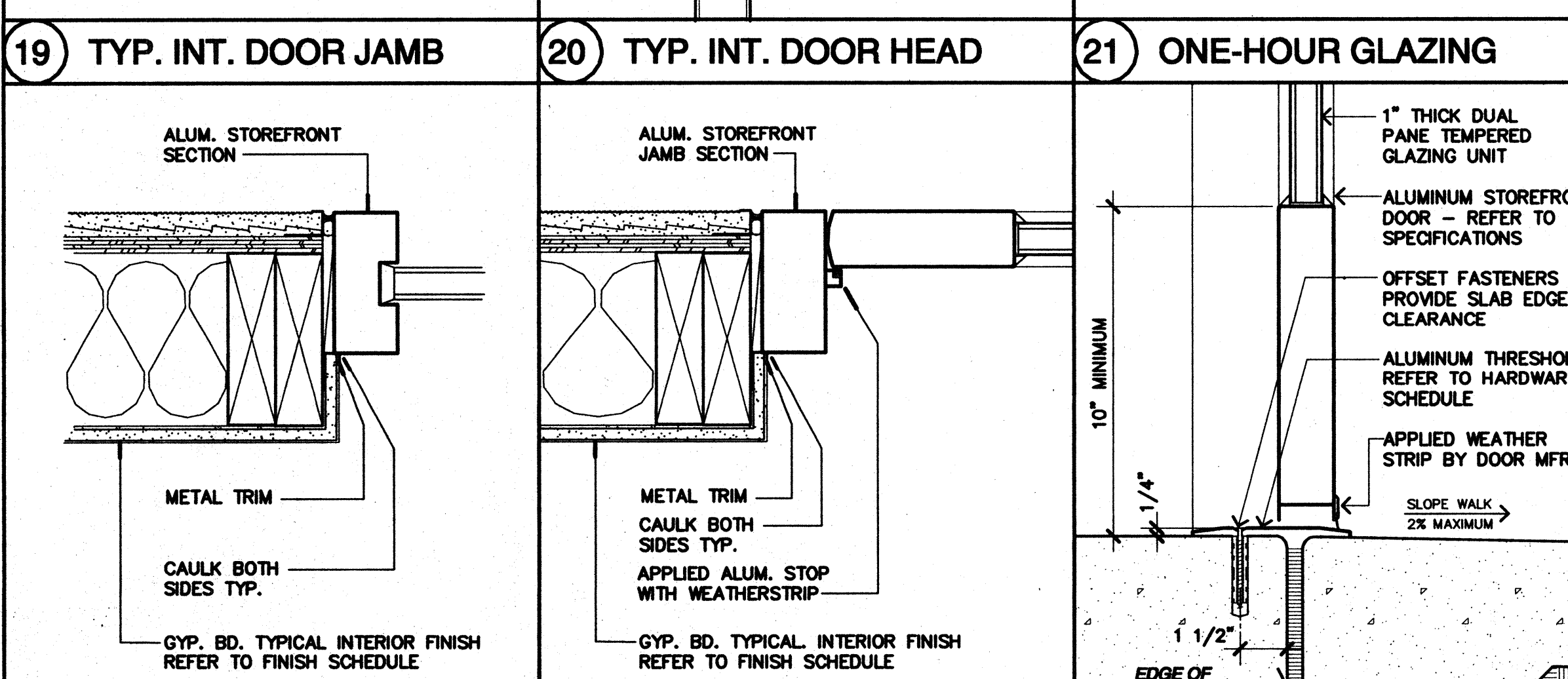
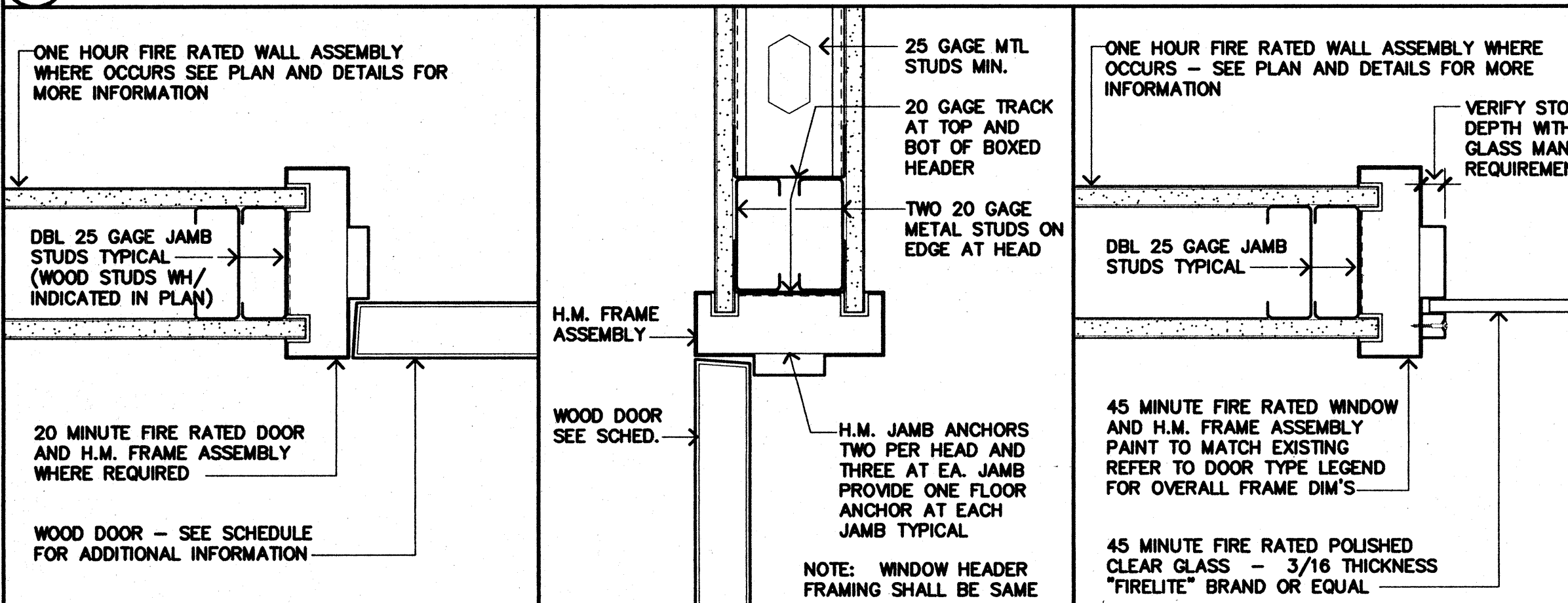
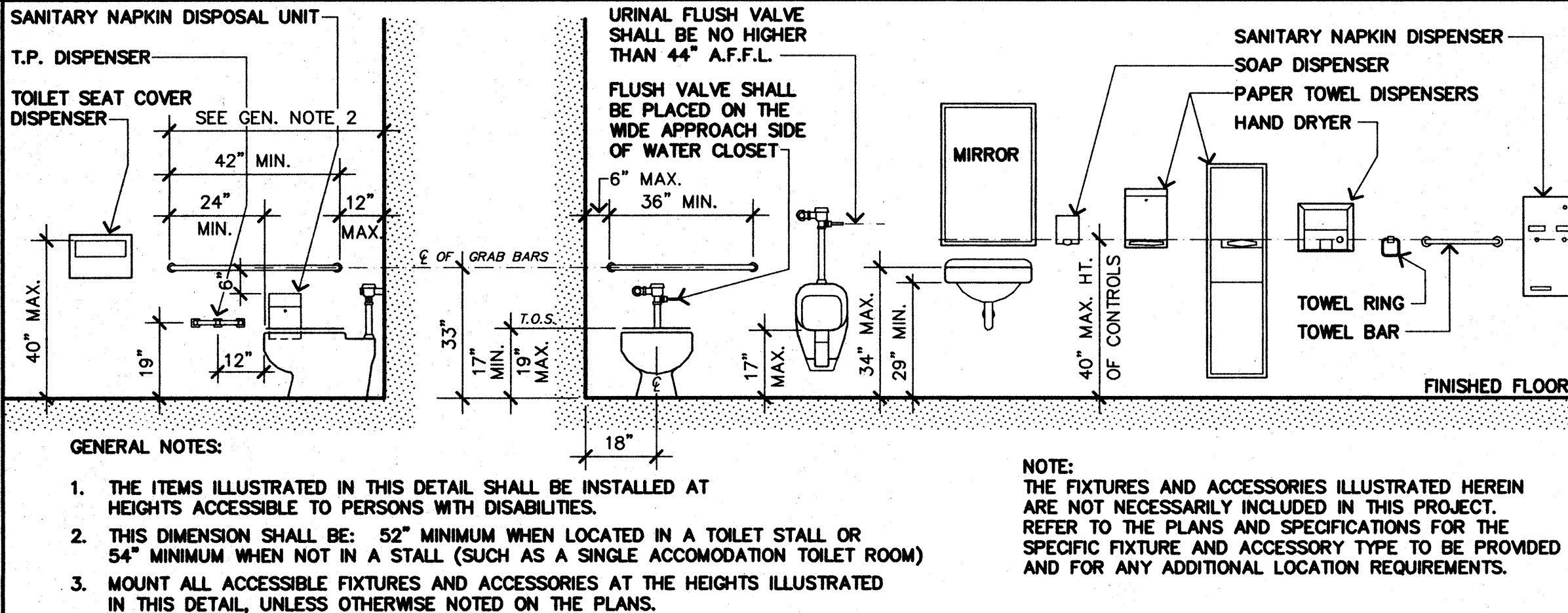
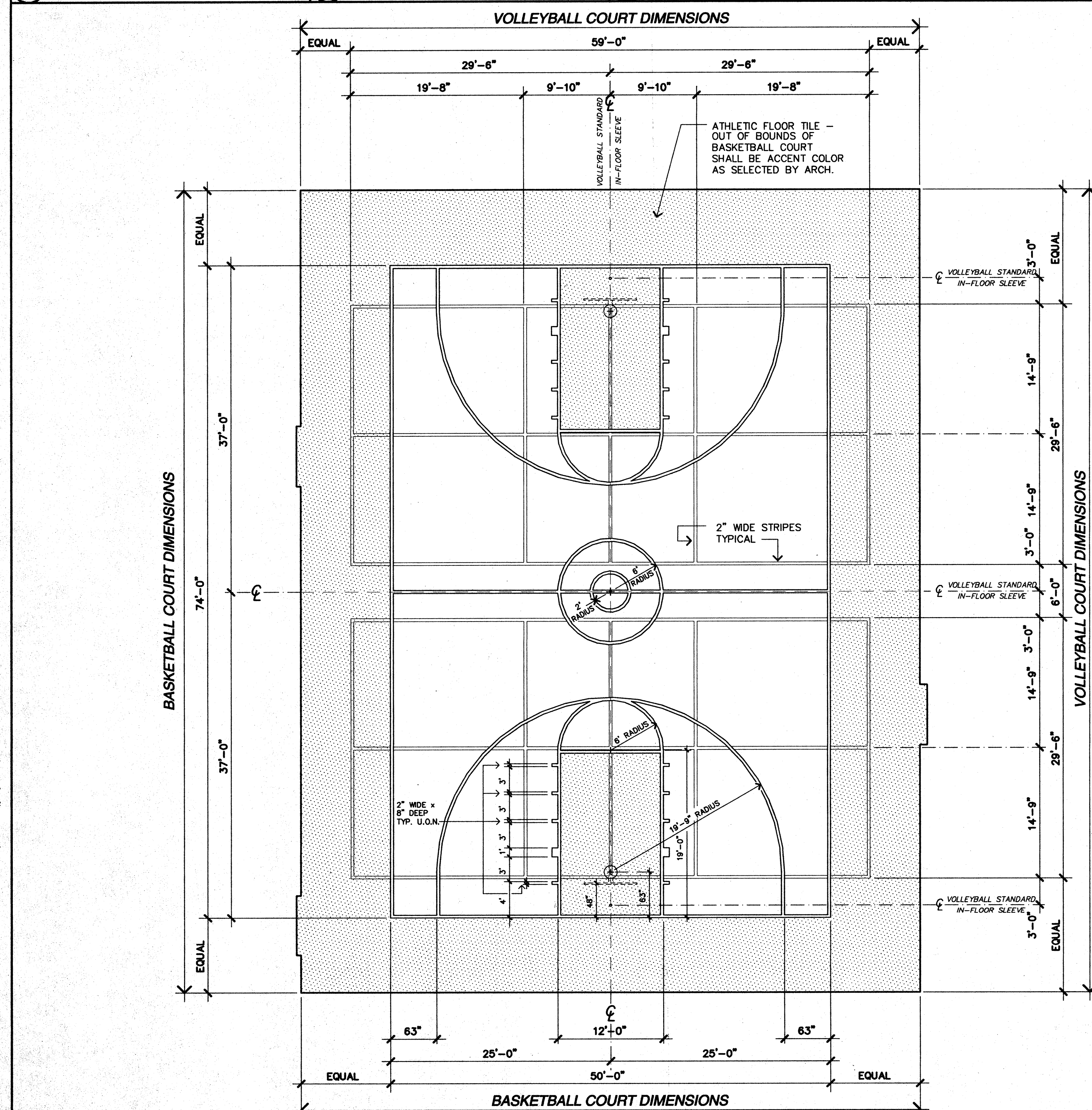
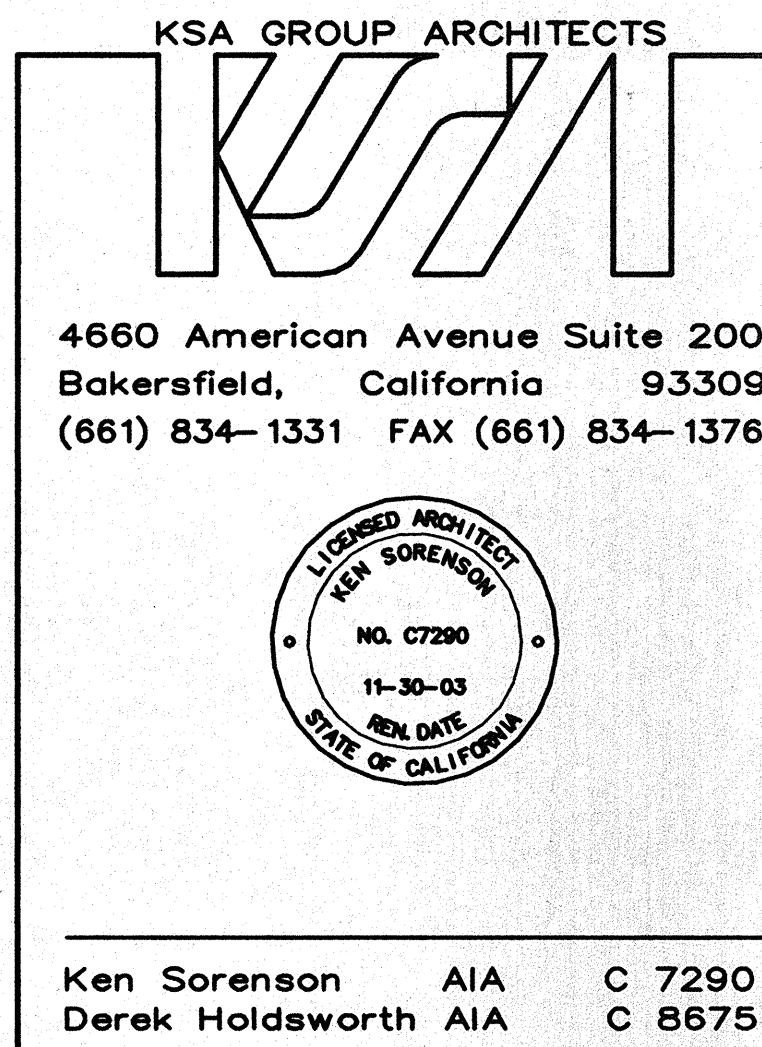
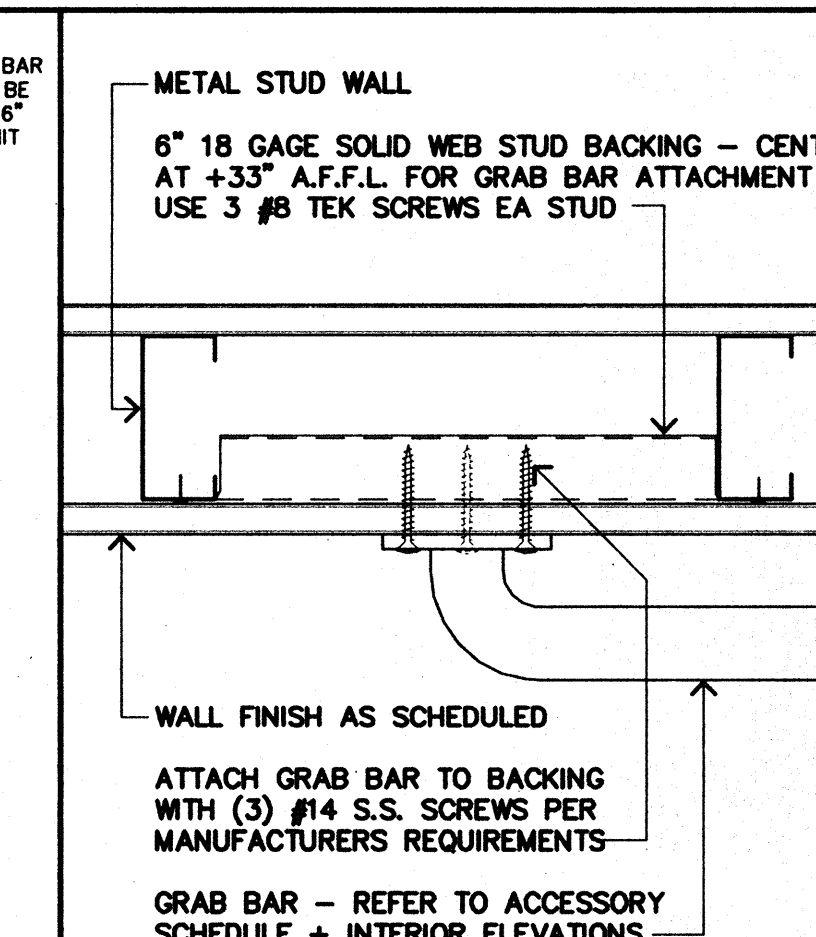
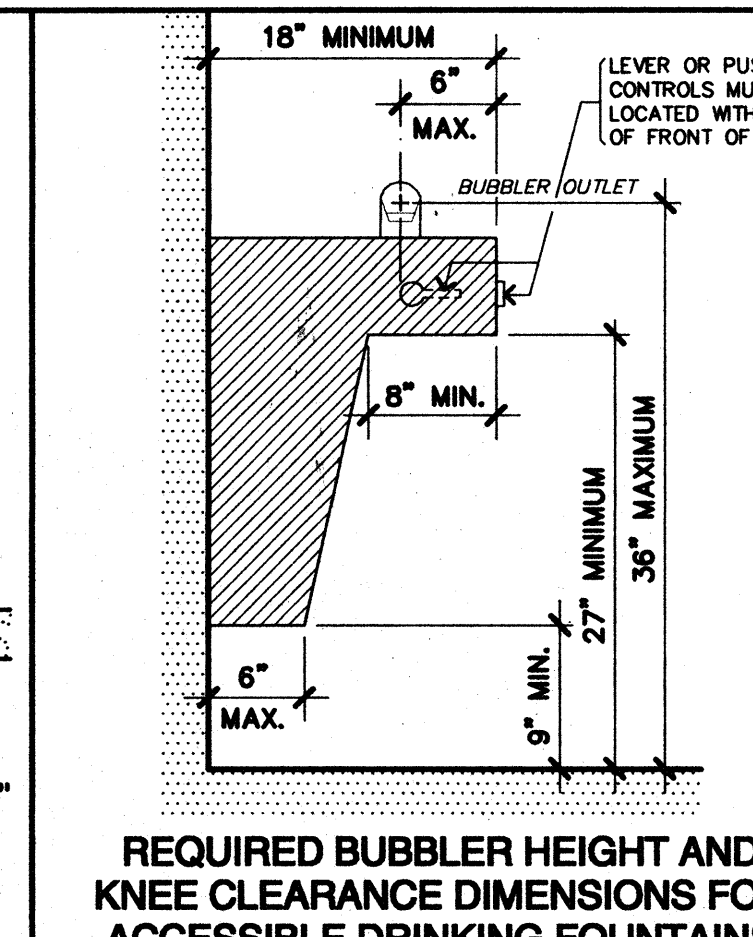
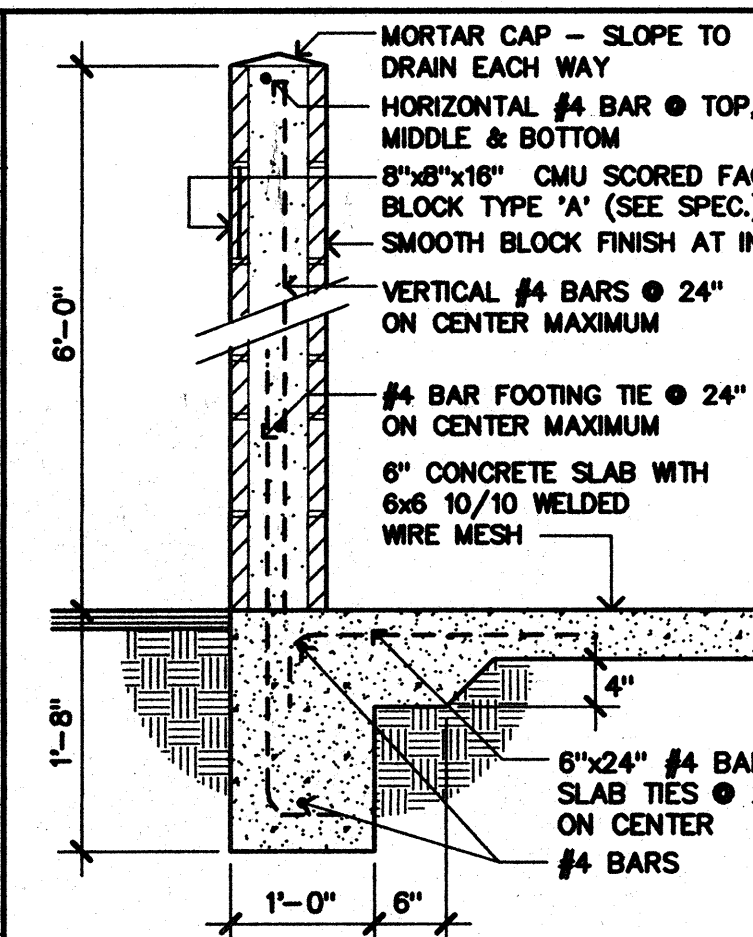
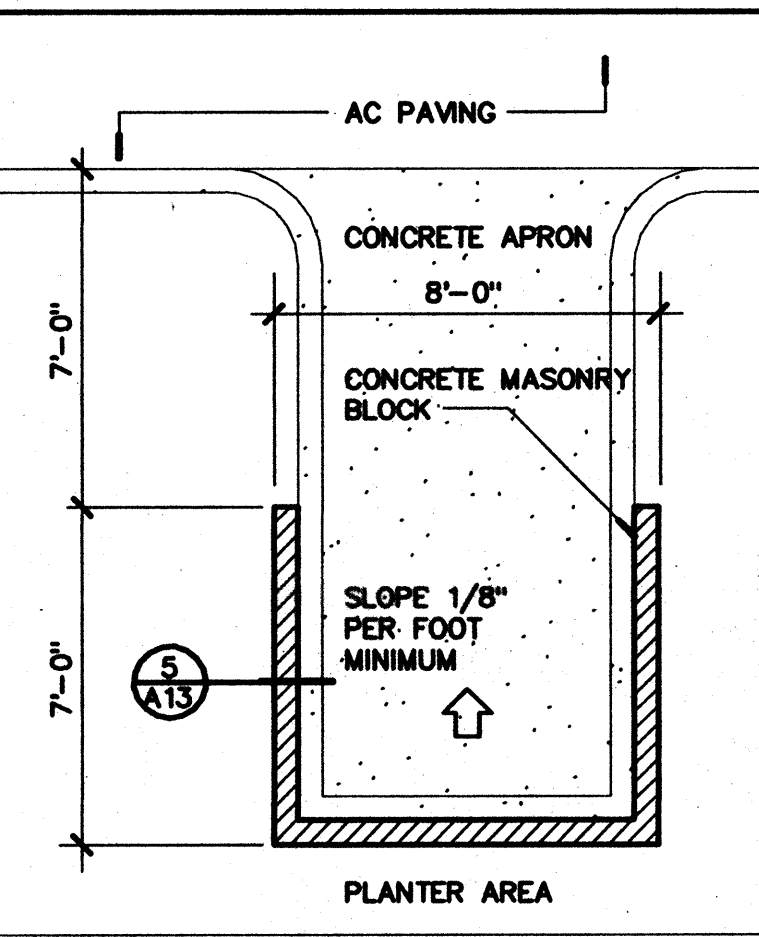
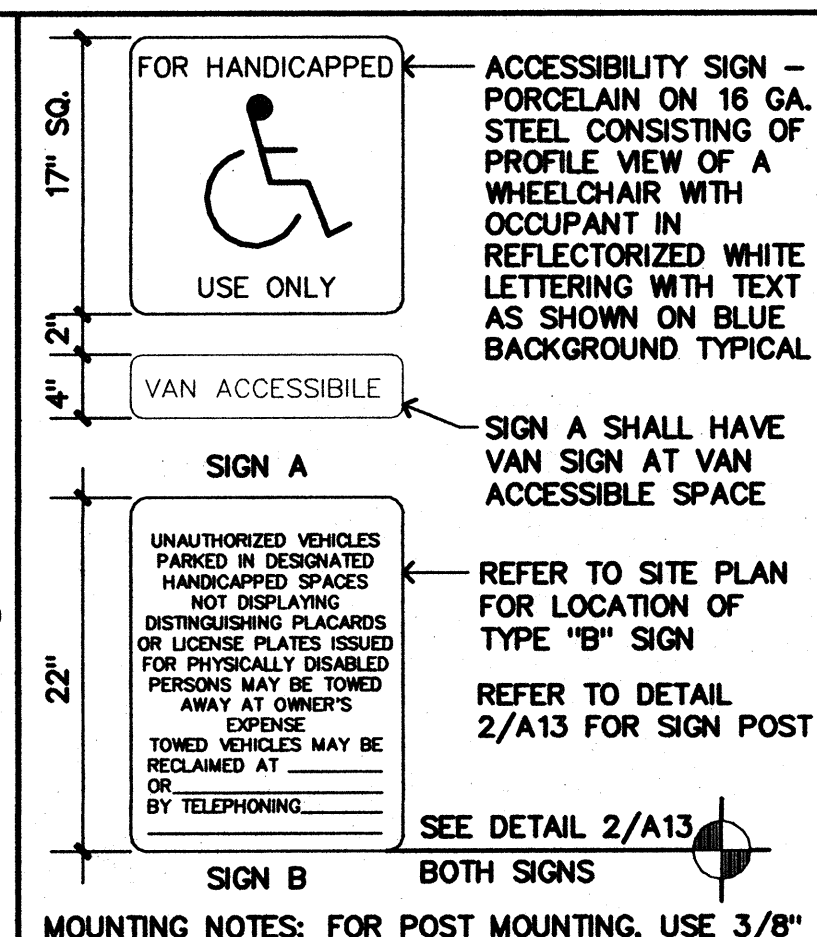
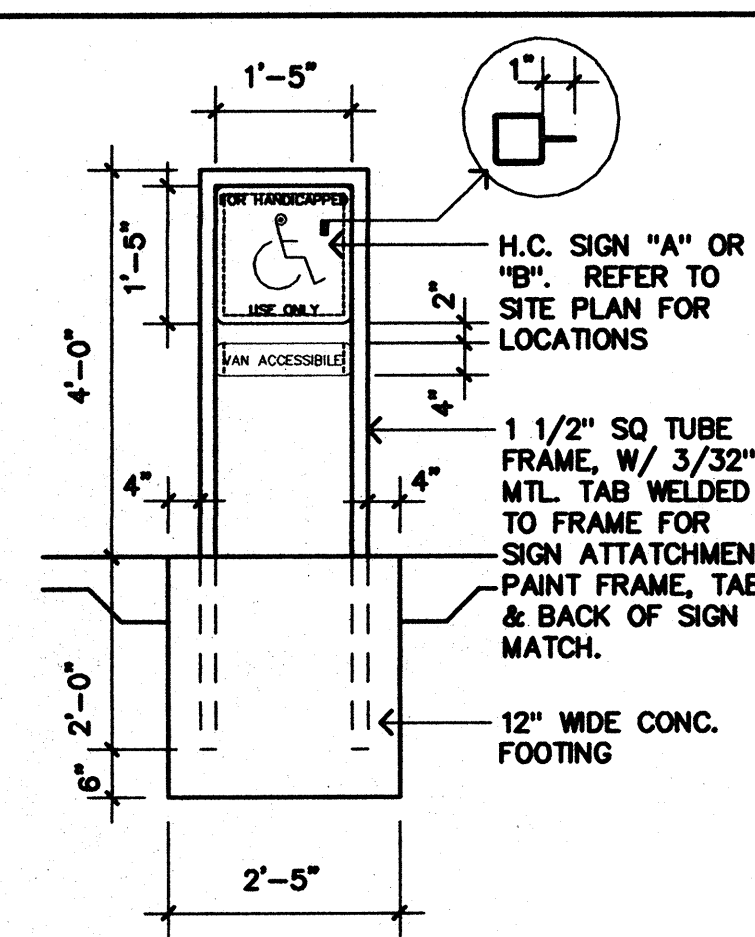
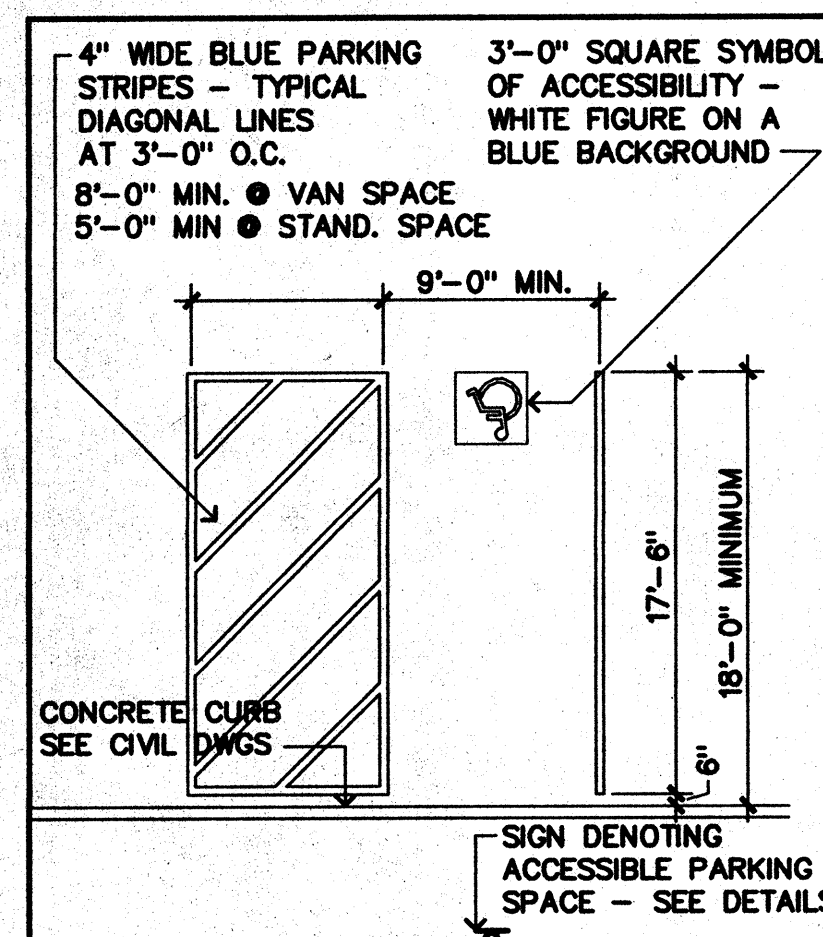
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1 SUSPENDED ACOUSTIC CEILING GRID 2 END WALL CONDITION 3 MID-SPAN CONDITION 4 HANGER WIRE ATTACHMENT 5 STRUT ATTACHMENT

No.	Description	Date
Revisions		
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Scale:	Job No:	Sheet No:
Job No: 2447.01	2447.01	A12
Date: 08/16/2002		of sheets



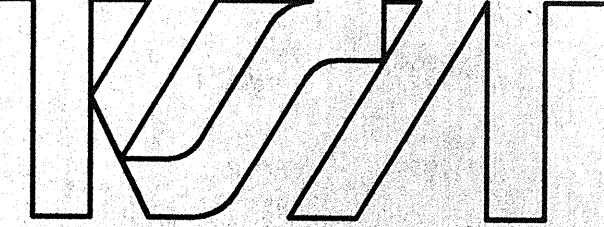
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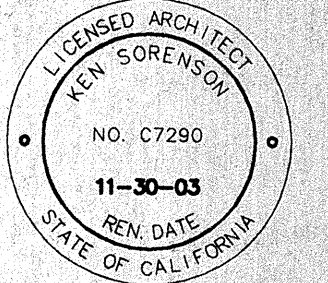
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4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

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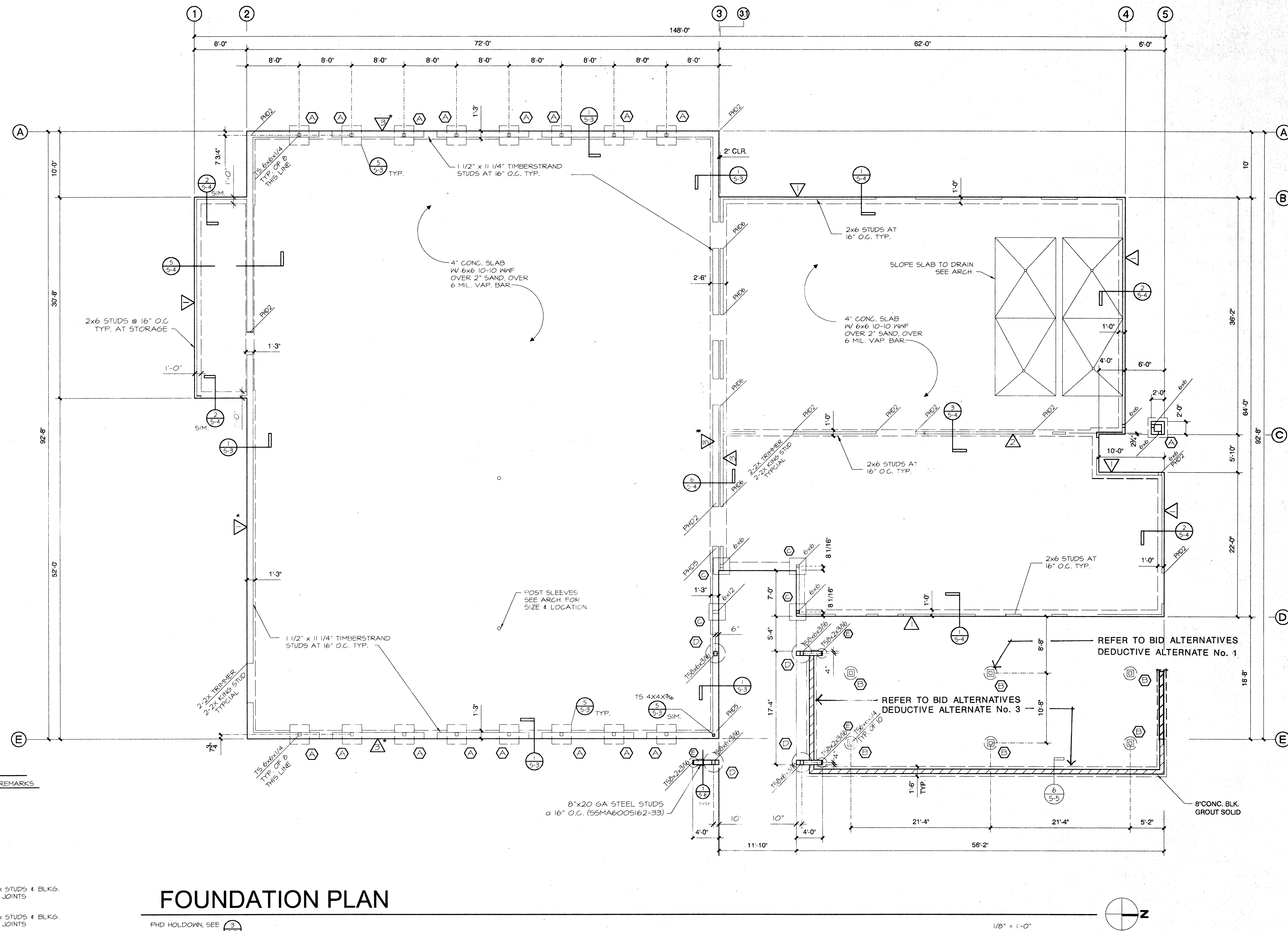
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FOUNDATION PLAN

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Date:	10/06/02	

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FOOTING SCHEDULE

SIZE	THICKNESS	REINFORCING
3'-0" SQ.	1'-6"	4- #4 EA. WAY
2'-0" DIA.	4'-6"	SEE DETAIL
2'-6" SQ.	1'-6"	3- #4 EA. WAY
3'-0" DIA.	5'-6"	SIM. TO DETAIL
1'-6" DIA.	3'-6"	SIM. TO DETAIL

SHEAR WALL SCHEDULE

SHTG	EDGE NAILING	SILL BOLTS	REMARKS
3/8" PLY	8d @ 6" o/c	5/8" DIA. x 10" BOLTS @ 4'-0" o/c	
3/8" PLY	8d @ 6" o/c	3/4" DIA. x 12" BOLTS @ 2'-0" o/c (3x SILL)	
3/8" PLY	8d @ 3" o/c	5/8" DIA. x 10" BOLTS @ 2'-8" o/c	
1/2" PLY	10d @ 3" o/c	5/8" DIA. x 10" BOLTS @ 2'-0" o/c (3x SILL)	3x STUDS & BLKs. @ JOINTS
1/2" PLY	10d @ 3" o/c	3/4" DIA. x 12" BOLTS @ 2'-0" o/c (3x SILL)	3x STUDS & BLKs. @ JOINTS

- INTERMEDIATE NAILING TO BE 12" o/c, SAME NAIL SIZE AS EDGE NAILING
- BLOCK ALL UNSUPPORTED EDGES
- PLYWOOD IS TO RUN THE FULL LENGTH AND HEIGHT OF THE WALL
- A SIMPSON C516 STRAP IS TO BE APPLIED OVER THE PLYWOOD AND NAILED TO BLOCKING AT PLYWOOD EDGE NAIL SPACING WITHIN 6" ABOVE AND BELOW ALL OPENINGS IN THE GYMNASIUM (LINES 2, 3, A, E). THE STRAP IS TO BE UNBROKEN AND SHALL EXTEND PAST THE WALL OPENING A MINIMUM OF 8 FT.
- ALTERNATE TO 3x STUD; (2) 2x STUD FACE NAILED WITH 2 ROWS OF 16d @ 4" O.C. AND A ROW OF PLYWOOD EDGE NAILING TO EACH STUD.

FOUNDATION PLAN

PHD HOLDOWN, SEE 1/5-3

1/8" = 1'-0"



TYP. WELD PARALLEL TO DECK

① DECK WELDING TO SUPPORTS



② DECK SEAM ATTACHMENTS

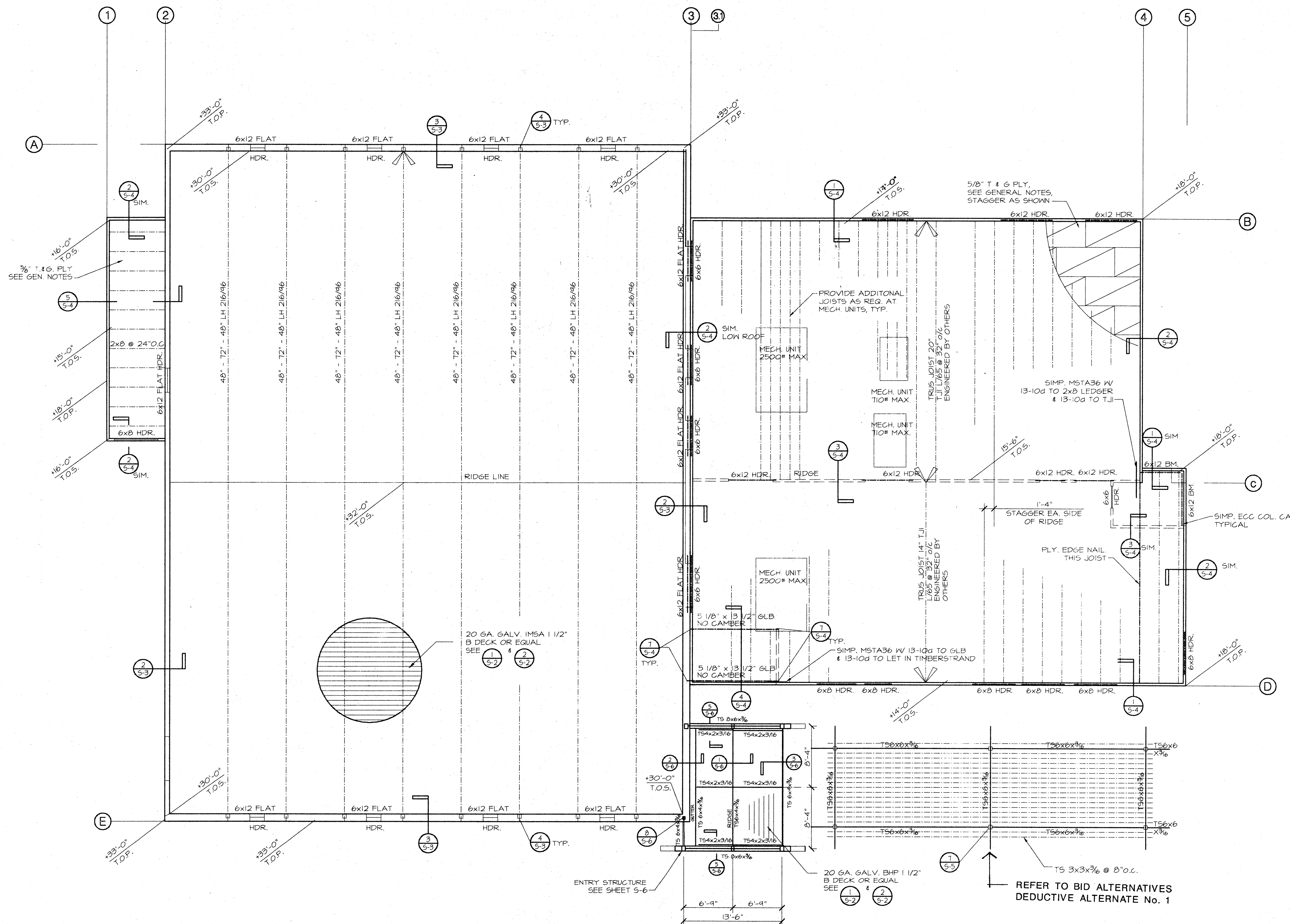
STEEL JOIST NOTES (LINES 2 TO 3)

NOTES:

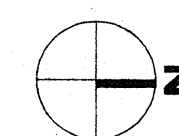
1. SEE THE GENERAL NOTES.
2. LOADINGS:
DEAD LOAD TO JOISTS: 15 PSF
LIVE LOAD: 20 PSF (REDUCIBLE)
3. THE JOIST SUPPLIER SHALL DESIGN THE JOISTS AND GIRDERS FOR ALL SPRINKLER LINES GREATER THAN 4 INCHES IN DIAMETER & LINES LARGER THAN 4" DIAMETER SHALL BE SUSTAINED BY THE JOIST WITHOUT THE APPROVAL OF THE ROOF SUPPLIER. SPRINKLER LINES SHALL NOT BE SUSPENDED FROM THE WOOD SUB-FURLINS.
4. JOISTS SHALL BE DESIGNED FOR ALL MECHANICAL EQUIPMENT.
MECHANICAL EQUIPMENT SUPPORTED BY THE JOISTS SHALL BE PLACED TO BE SUPPORTED SYMMETRICALLY BY THE JOISTS. THE NUMBER AND SIZE OF ALL LINES TO BE CONFIRMED BY THE JOIST SUPPLIER WITH THE MECHANICAL SUPPLIER PRIOR TO INSTALLATION.
5. THE TOP CHORD OF THE JOISTS SHALL BE DESIGNED FOR A WIND AXIAL LOAD OF 1000# PER JOIST FOR COMPRESSION.
6. AT THE OFFICE (LINES 1 TO 22) THE JOISTS SHALL BE DESIGNED FOR A 1000# ADD LOAD AT ANY PANEL POINT TO ACCOUNT FOR MECHANICAL UNIT WEIGHTS.
"48 LB 216/96" MANUFACTURED BY VULCRRAFT OR APPROVED EQUAL.
DENOTES JOIST LIVE LOAD DESIGN (PLF)
DENOTES JOIST TO LOAD DESIGN (PLF)
DENOTES JOIST DEPTH
8. THE JOISTS SHALL BE LIMITED TO A DESIGN DEFLECTION OF NO GREATER THAN 1/180 FOR TOTAL LOAD, 1/240 FOR LIVE LOAD.
9. GYMNASIUM JOISTS SHALL BE DESIGNED FOR AN ADD LOAD OF 3000# AT ANY PANEL JOINT AND A BOTTOM CHORD BENDING OF 1000# AT LOCATION ON THE BOTTOM CHORD.

WOOD ROOF LOADS (LINES 3.1 TO 5)

DEAD LOAD 12 PSF
LIVE LOAD 20 PSF (REDUCIBLE)



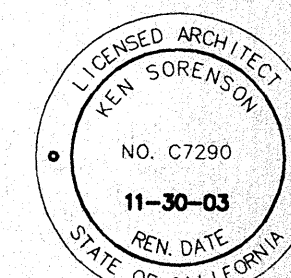
ROOF FRAMING PLAN

 $1/8" = 1'-0"$ 

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



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ROOF FRAMING PLAN

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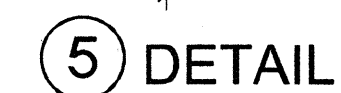
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① DETAIL

④ DETAIL

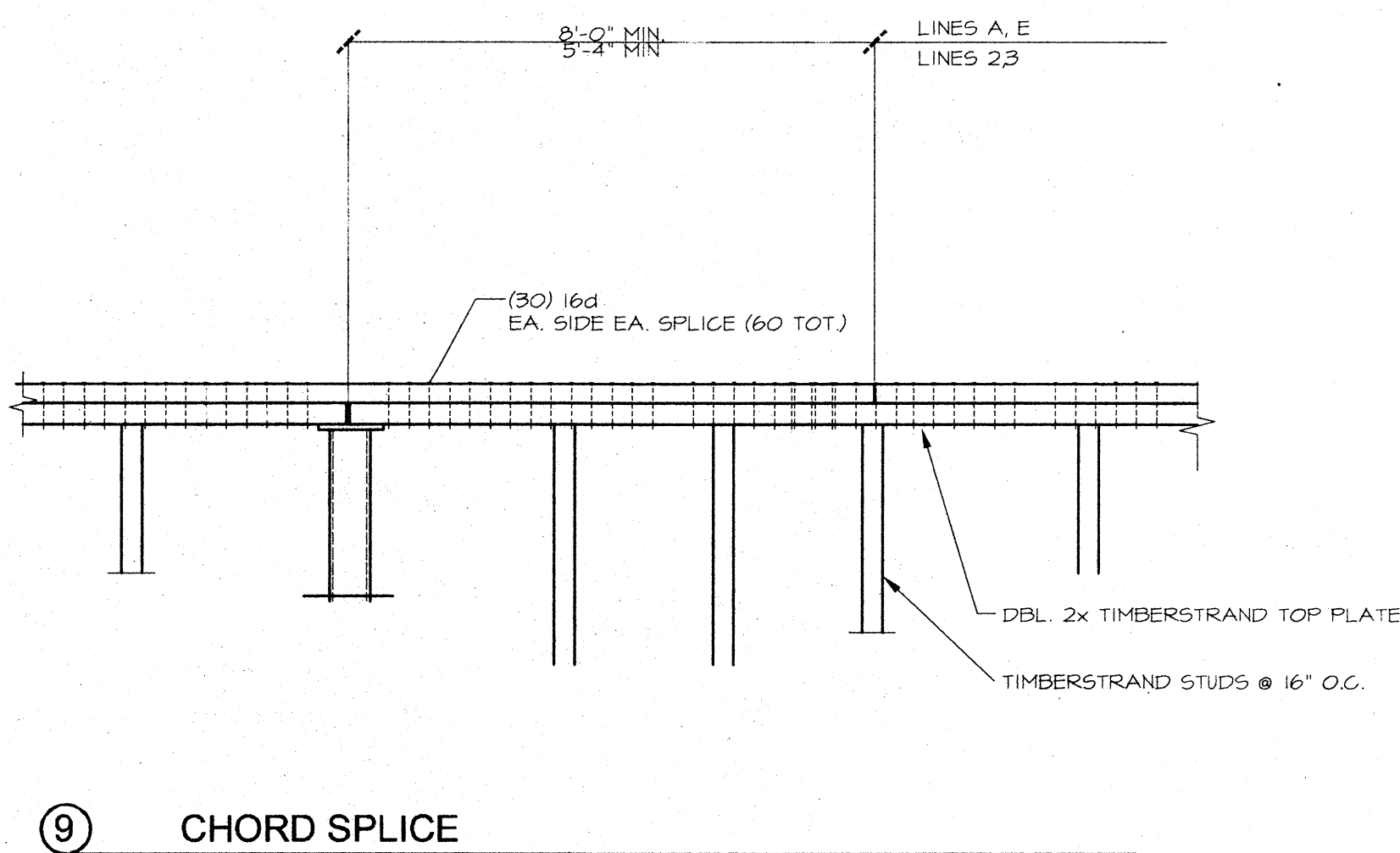
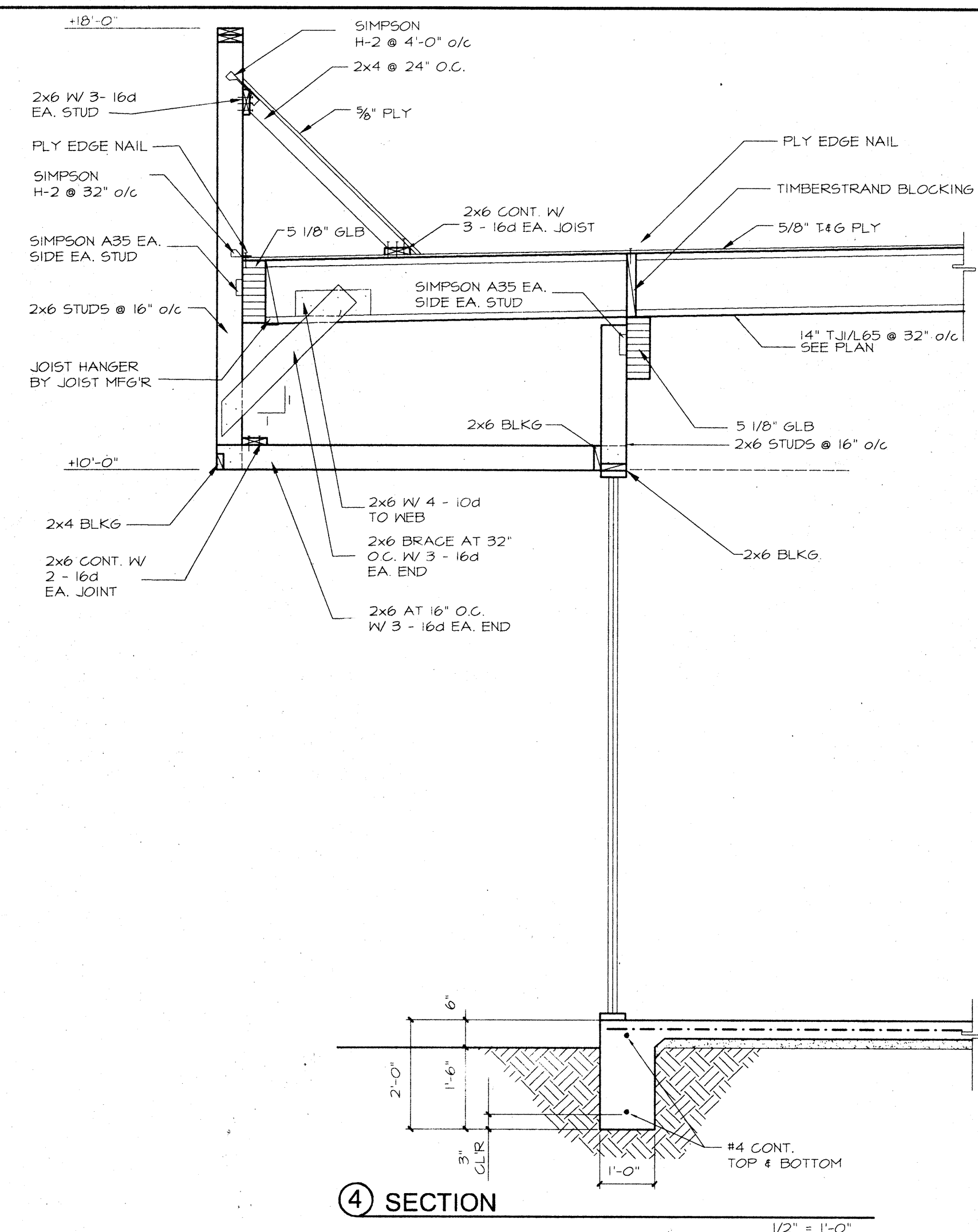
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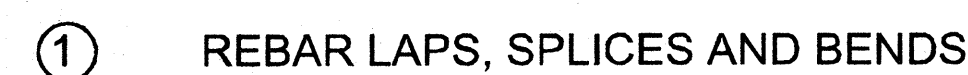
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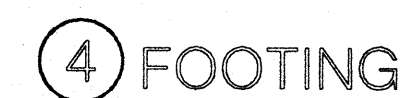
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1. PHD-TYPE HOLDINGS ARE THOSE MANUFACTURED BY SIMPSON STRONG TIE
2. SDS-TYPE SCREWS ARE THOSE MANUFACTURED BY SIMPSON STRONG TIE (ICBO 5268)
3. SSTB-TYPE ANCHOR BOLTS ARE THOSE MANUFACTURED BY SIMPSON STRONG TIE (ICBO 4935)
4. SDS 1/4x3 SCREWS, TYP.
SDS 1/4x2.5 SCREWS AT HDC10/4



DESIGN CRITERIA:
GOVERNING CODE: 1997 UNIFORM BUILDING CODE
WIND DESIGN: 70 MPH; EXPOSURE B
SEISMIC ZONE: 4 $N_a=1.0$, $N_v=1.0$

FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY KRAZAN AND ASSOCIATES, KA PROJECT NO. 022-02064, DATED MAY 31, 2002. FOOTINGS SHALL BE A MINIMUM OF 12" WIDE AND SHALL HAVE A MINIMUM DEPTH OF 18" INTO ADJACENT GRADE. THE ALLOWABLE MAXIMUM BEARING PRESSURES ARE 1875 PSF FOR DEAD LOAD, 2500 PSF FOR DEAD + LIVE LOADS, AND 3325 PSF FOR TOTAL LOAD INCLUDING WIND OR SEISMIC LOADING.

CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 2500 PSI MINIMUM IN 28 DAYS. USE NO MORE THAN 7.6 GAL. OF WATER PER SACK OF CEMENT.

CRACK CONTROL IN CONCRETE SLABS - AT CONTRACTOR'S AND OWNER'S OPTION. RECOMMENDED SPACING OF CONTROL JOINTS: NOT MORE THAN 15' O.C. BOTH WAYS.

REINFORCING STEEL - #4 AND SMALLER BARS SHALL BE INTERMEDIATE GRADE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 40 (Fy=40,000 PSI MINIMUM). SPLICES SHALL LAP A MINIMUM OF 30 DIAMETERS IN CONCRETE AND 40 DIAMETERS IN MASONRY. #5 AND LARGER BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 (Fy=60,000 PSI MINIMUM). SPLICES SHALL LAP A MINIMUM OF 36 DIAMETERS IN CONCRETE.

WELDED WIRE FABRIC SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A185. IT SHALL BE INSTALLED IN AS LONG LENGTHS AS PRACTICABLE AND MUST LAP AT LEAST ONE FULL MESH AT SIDES AND ENDS WHERE PIECES JOIN.

STRUCTURAL STEEL - ALL PLATES AND SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A501. STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B. BOLTS SHALL BE ASTM A307 UNLESS THE PLANS SHOW OTHERWISE. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN THE BOLT.

WELDING SHALL BE DONE BY A CERTIFIED WELDER USING THE SHIELDED ARC PROCESS AND E70 SERIES ELECTRODES.

LUMBER - BEAMS, HEADERS, STUDS AT LINES B, C, AND D, AND POSTS ARE TO BE NO. 1 (OR BETTER) D.F.. ALL OTHER WOOD FRAMING IS TO BE NO. 2 (OR BETTER) D.F.. WOOD SILL PLATES ON CONCRETE SHALL BE PRESSURE TREATED D.F. SILL BOLTS SHALL BE SPACED AS SHOWN ON THE PLANS AND WITHIN 12" OF THE ENDS OF EACH SILL PIECE. NAILING OF LIGHT FRAMING IS TO BE DONE IN ACCORDANCE WITH TABLE 23-1-C, UBC 1997. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN THE BOLT. PLACE 2 1/2" SQ. X 3/16" CUT PLATE WASHER UNDER HEAD AND NUT BEARING ON WOOD.

GLUED-LAMINATED BEAMS SHALL BE COMBINATION NO. 24F-V4 MANUFACTURED IN ACCORDANCE WITH APA-EWS 117-93 MANUFACTURING AND VOLUNTARY PRODUCT STANDARD PS 56-73, "STRUCTURAL GLUED-LAMINATED TIMBER," VISUALLY GRADED, INDUSTRIAL APPEARANCE, USING WATERPROOF GLUE CONFORMING TO THE SPECIFICATIONS CONTAINED IN VOLUNTARY PRODUCT STANDARD PS 56-73, FOR "STRUCTURAL GLUED-LAMINATED TIMBER". A COAT OF END SEALER SHALL BE APPLIED WHEN THE BEAM IS FABRICATED AND THE ENDS SHALL BE SEALED AS SOON AS PRACTICAL AFTER END-TRIMMING IN THE FIELD. LOAD WRAP FOR PROTECTION IN TRANSIT. THE BEAMS SHALL BE MARKED WITH AN APA-EWS QUALITY MARK AND AN APA-EWS CERTIFICATE OF CONFORMANCE SHALL BE PROVIDED.

PREFABRICATED WOOD JOISTS - DESIGN, ENGINEERING AND FABRICATION SHALL BE THE RESPONSIBILITY OF THE JOIST SUPPLIER. THEY SHALL BE SPACED AS SHOWN ON THE PLANS AND SHALL BE DESIGNED TO CARRY ALL IMPOSED LOADS DEAD AND LIVE, AS SHOWN ON THE PLANS AND AS REQUIRED BY APPLICABLE CODES. SPANS, OVERHANGS, SUPERSTRUCTURES, ETC., SHALL BE AS SHOWN ON THE PLANS. JOISTS SHALL BE ADDED AS NECESSARY TO SUPPORT THE ROOF AND EQUIPMENT. ALL JOIST MANUFACTURERS AND JOIST SUPPLIERS SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER COMPETENT IN HIS FIELD AND CURRENTLY LICENSED IN CALIFORNIA. THE MANUFACTURER SHALL SUPPLY NECESSARY RECOMMENDATIONS FOR BRACING JOISTS DURING AND AFTER ERECTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE JOISTS PLUMB AND PROPERLY ALIGNED AT THE PROPER SPACING AND WITH PROPER SUPPORT. HE SHALL ALSO PROVIDE BRACING AS RECOMMENDED BY THE MANUFACTURER. IN THE EVENT OF JOIST DAMAGE FROM HANDLING, TRANSPORTING OR ANY OTHER CAUSE, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE JOIST MANUFACTURER SO THAT CORRECTIVE PROCEDURES MAY BE PRESCRIBED.

TIMBERSTRAND STUDS AND BLOCKING ARE TO BE MANUFACTURED BY TRUS JOIST AND SHALL BE 1.5E.

ALL PLYWOOD SHEATHING SHALL BE SUPPORTED ON FRAMING MEMBERS 2" (NOM.) OR WIDER. ADJOINING PANELS SUPPORTED ON THE SAME MEMBER SHALL BUTT AT ITS CENTERLINE. NAILS SHALL BE PLACED NOT LESS THAN 3/8" FROM THE PANEL EDGE. "SHINERS" WILL NOT BE PERMITTED. PLYWOOD ROOF PANELS ARE TO BE LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, JOINTS STAGGERED. NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE PLYWOOD.

ROOF SHEATHING SHALL BE 5/8" UNSANDED DOUGLAS FIR PLYWOOD, A.P.A. RATED EXPOSURE I, C-D INTERIOR WITH EXTERIOR GLUE, INDEX 40/20, TONGUE AND GROOVE EDGES. NAIL WITH 10d COM. NAILS AT 6" O.C. AT ALL PLYWOOD EDGES AND AT 12" O.C. AT THE INTERMEDIATE SUPPORTS.

PLYWOOD SHEAR WALLS SHALL BE 3/8" OR 1/2" (AS NOTED PER THE PLANS), UNSANDED DOUGLAS FIR PLYWOOD, A.P.A. RATED EXPOSURE I, C-D INTERIOR WITH EXTERIOR GLUE. ALL UNSUPPORTED SHEARS ARE TO BE BLOCKED. NAIL WITH COMMON NAILS. SEE SHEAR WALL SCHEDULE FOR NAILING.

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Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376

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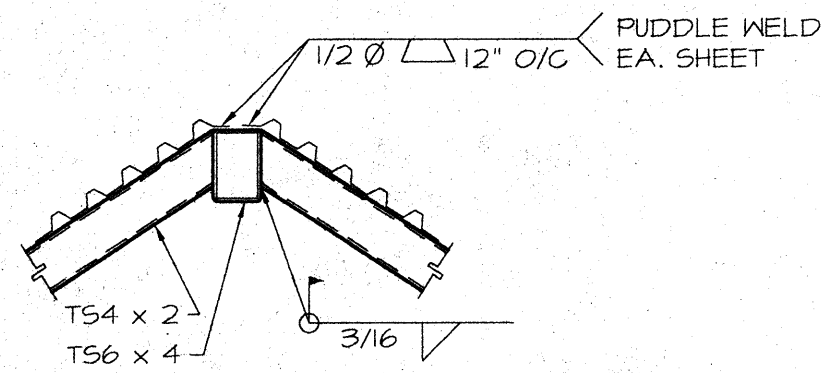
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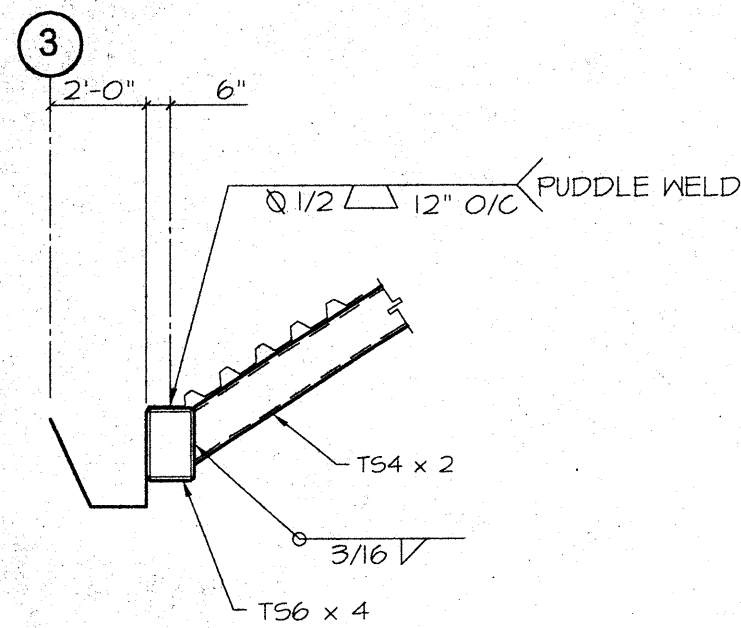
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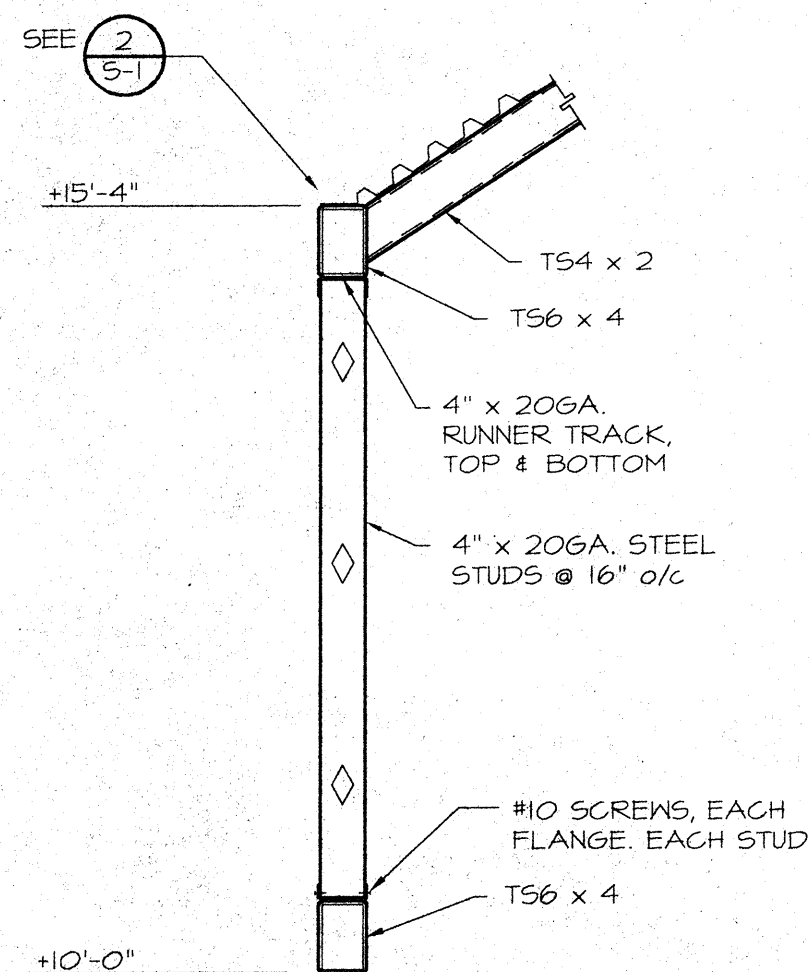
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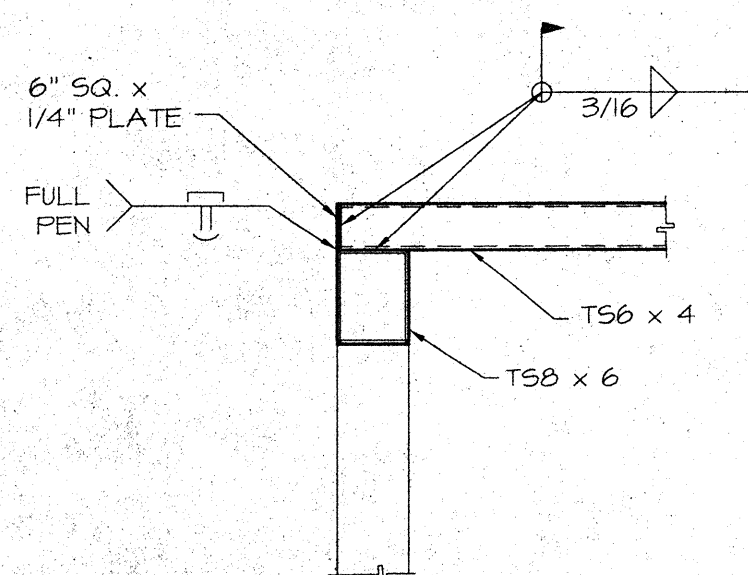
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3/4" = 1'-0"



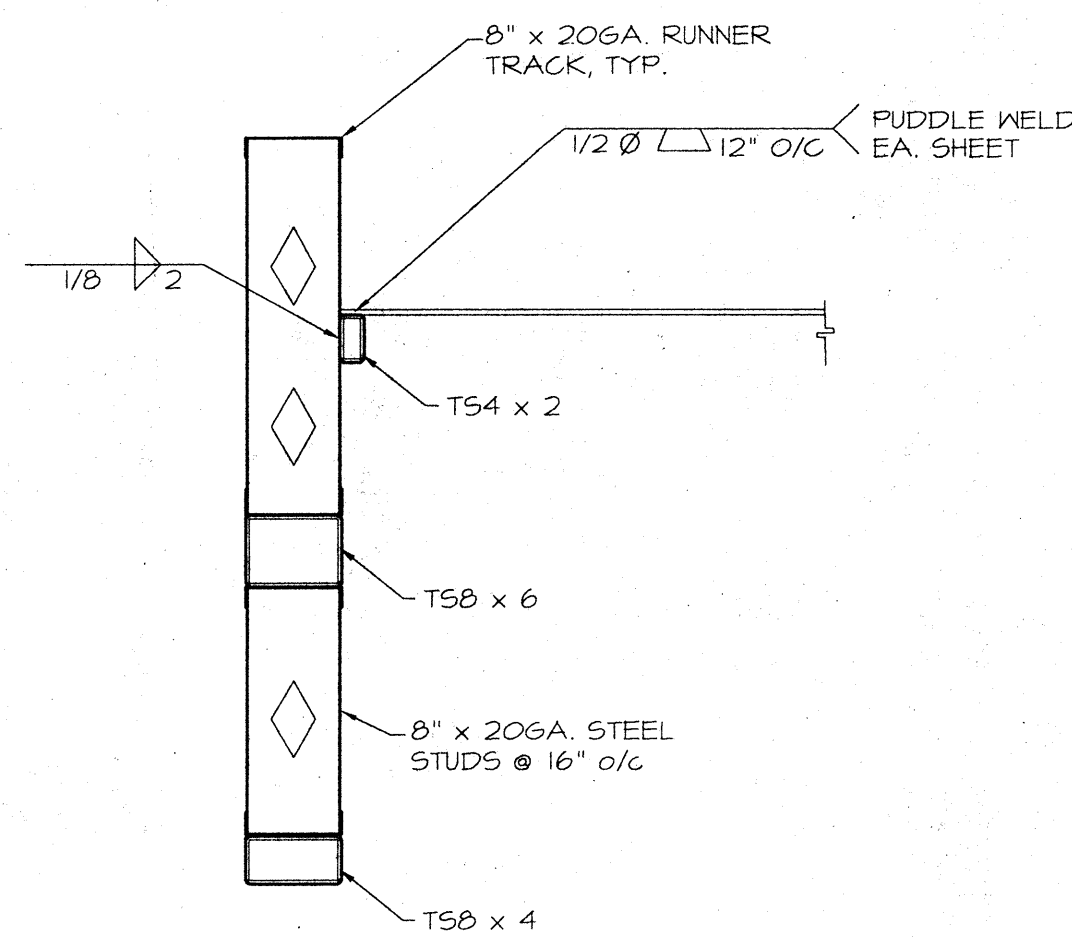
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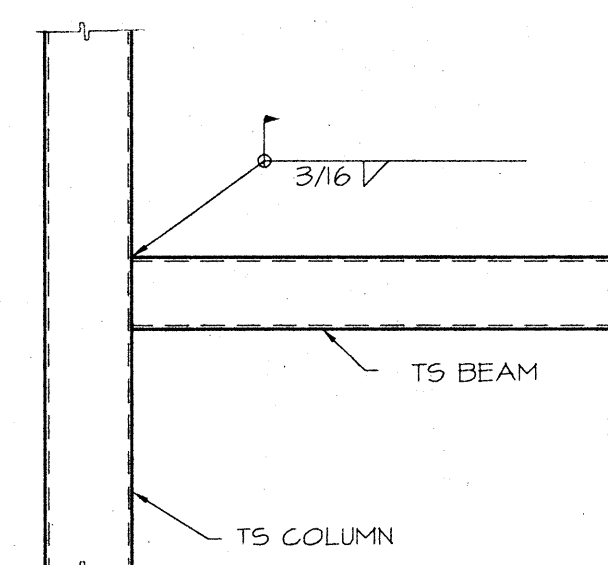
4 DETAIL

3/4" = 1'-0"



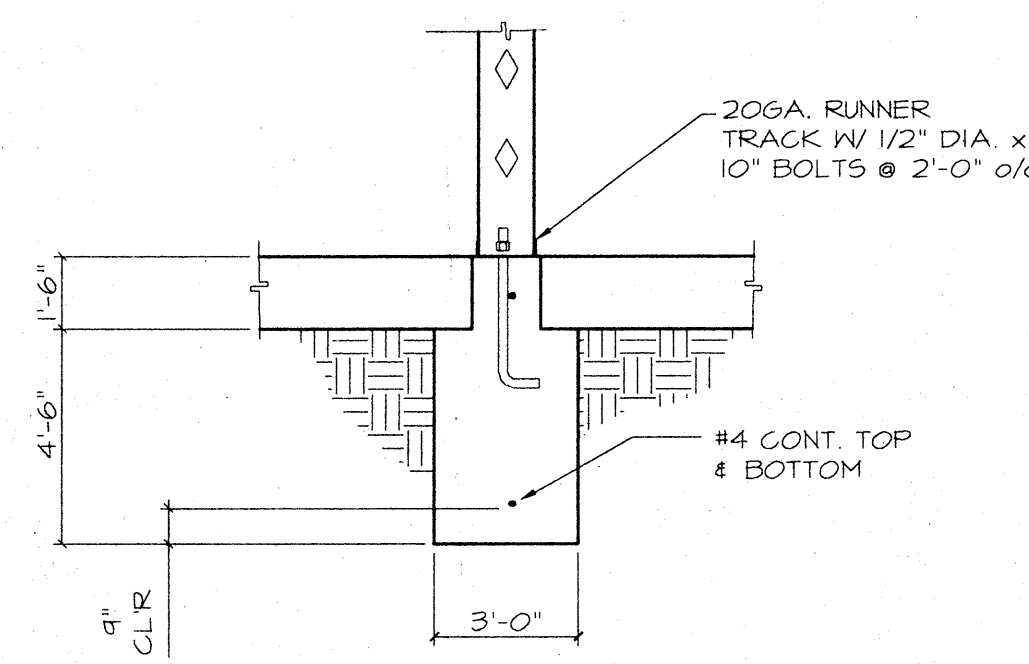
5 DETAIL

3/4" = 1'-0"



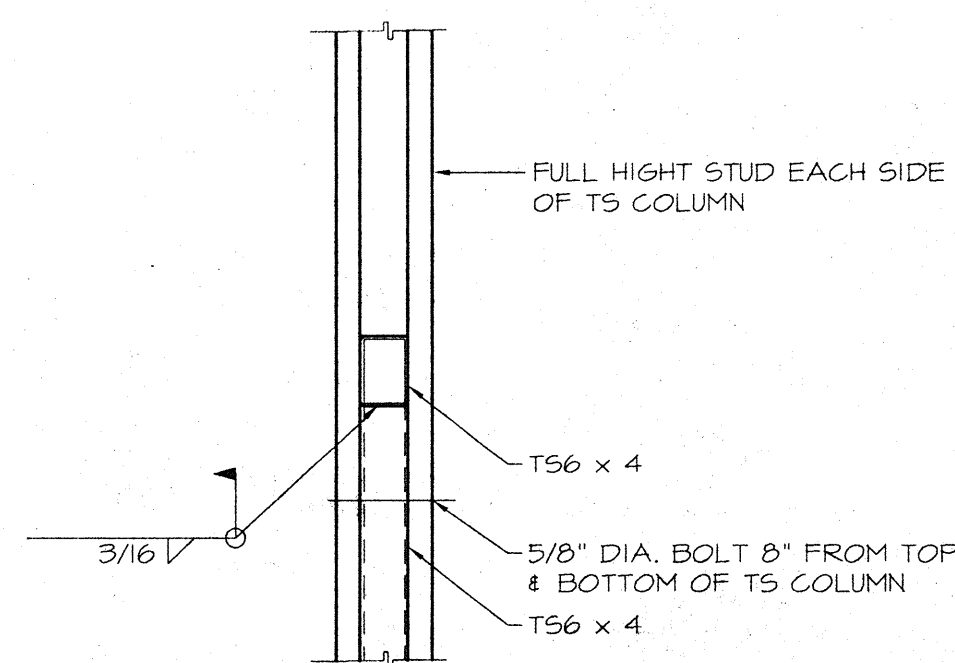
6 DETAIL

3/4" = 1'-0"



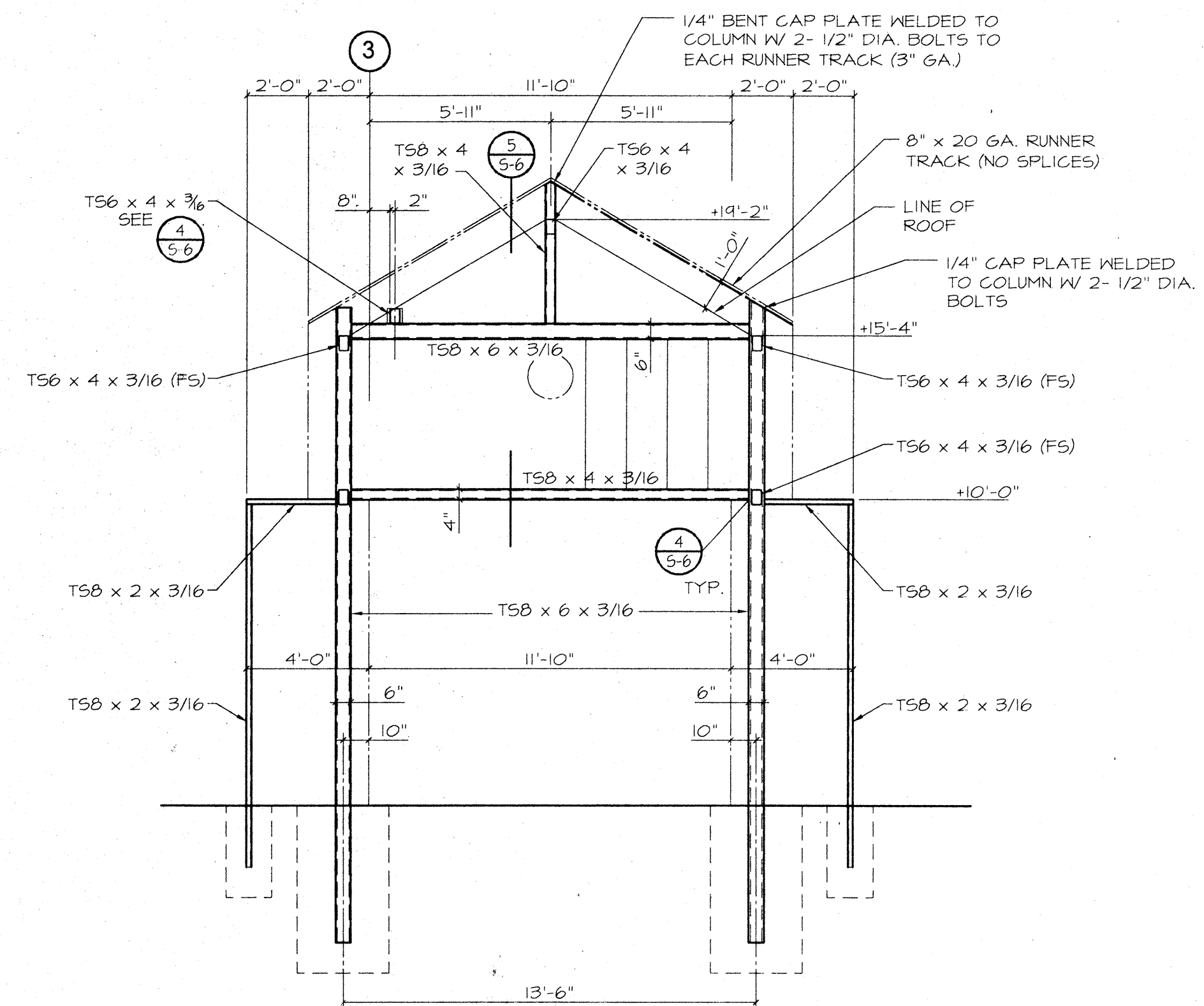
7 DETAIL

3/4" = 1'-0"



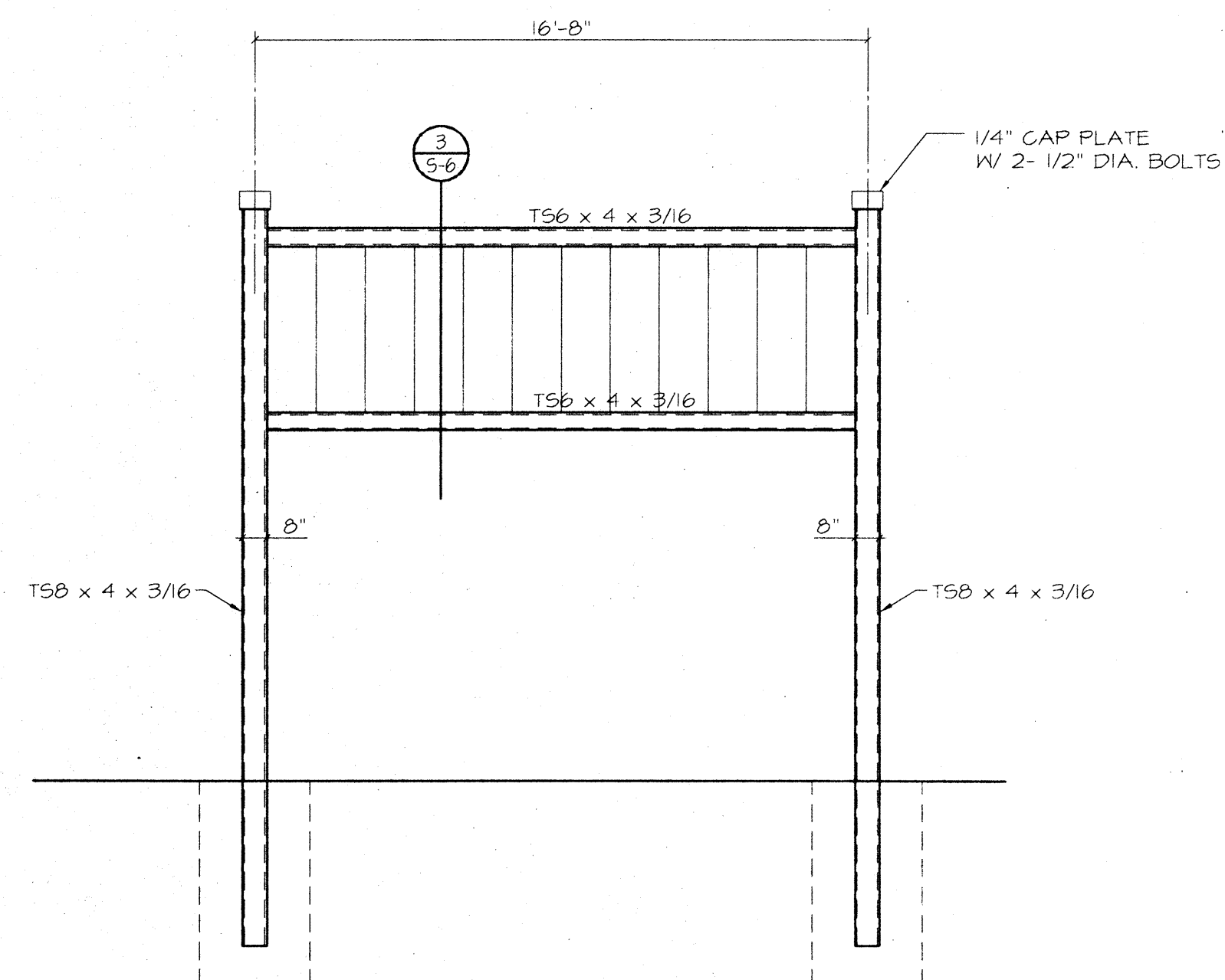
8 DETAIL

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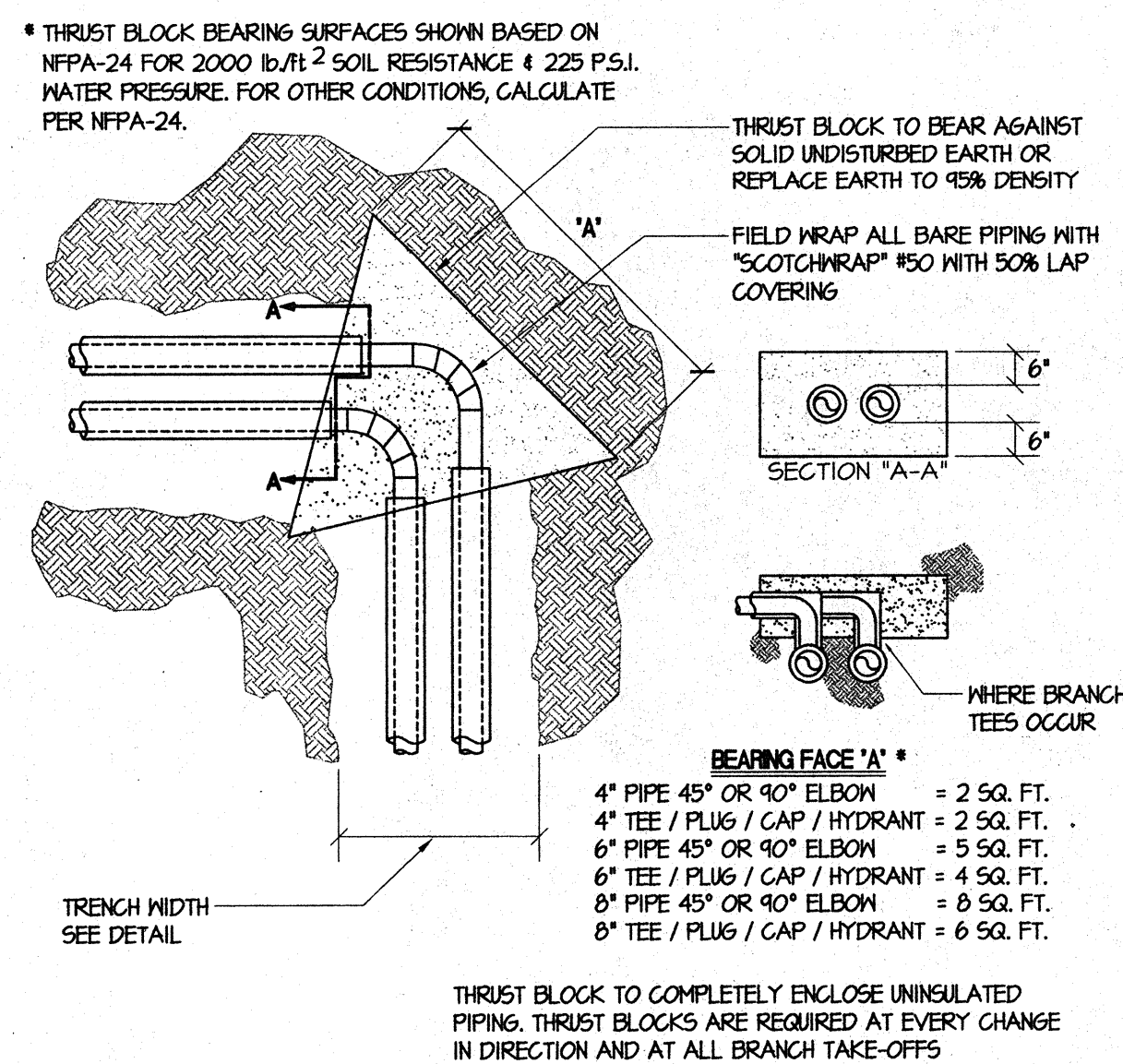
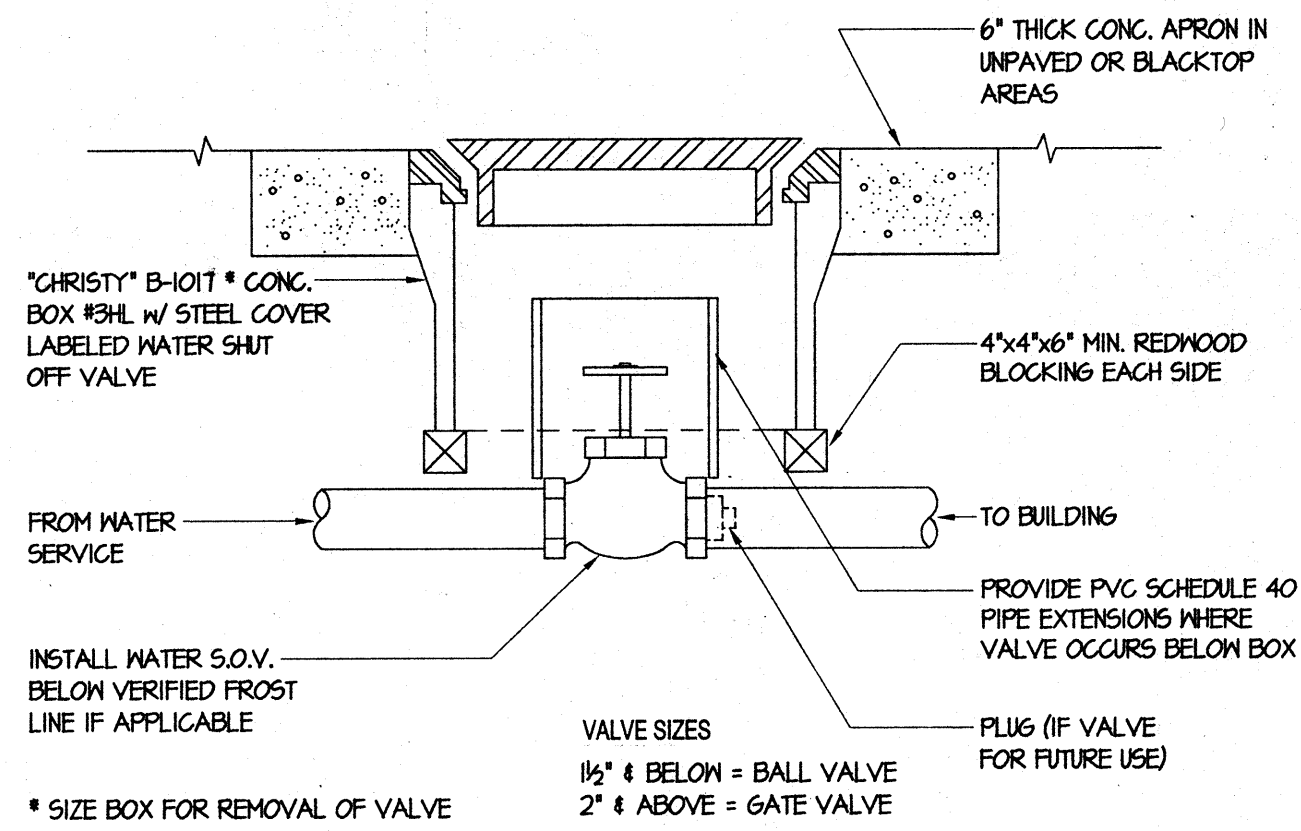
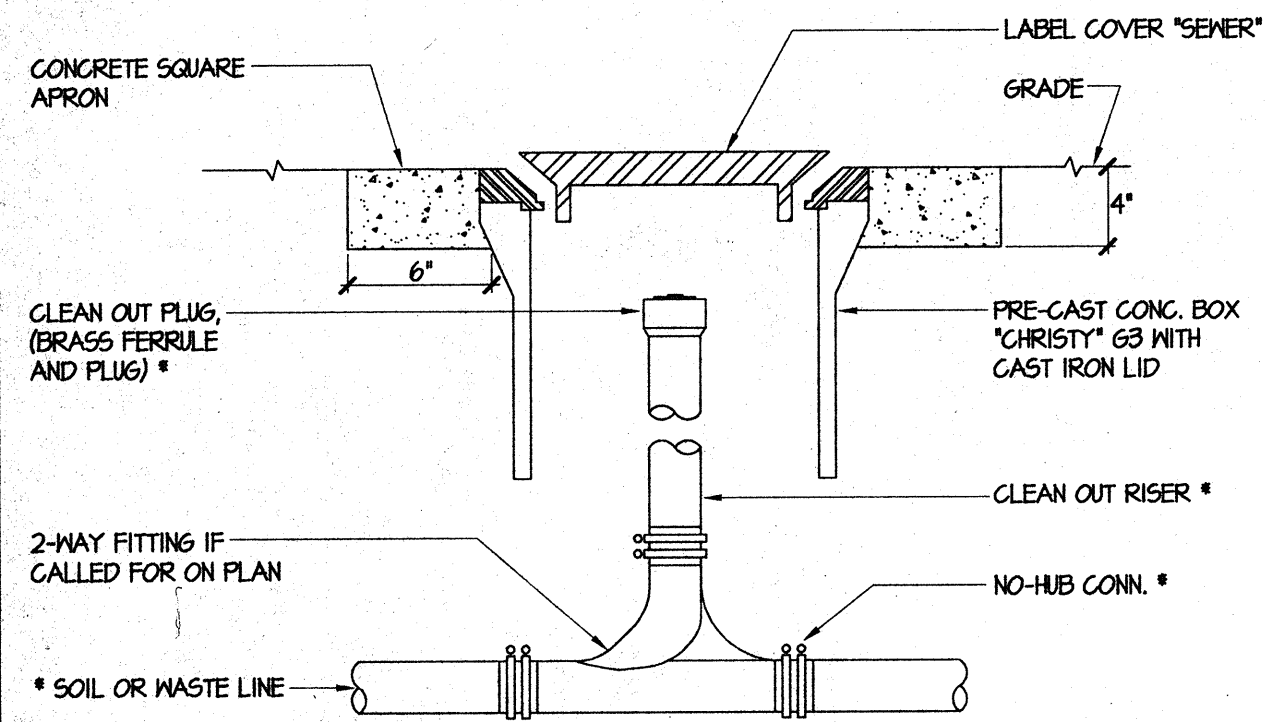
ENTRY STRUCTURE EAST ELEVATION (WEST SIMILAR)

1/4" = 1'-0"



ENTRY STRUCTURE NORTH ELEVATION

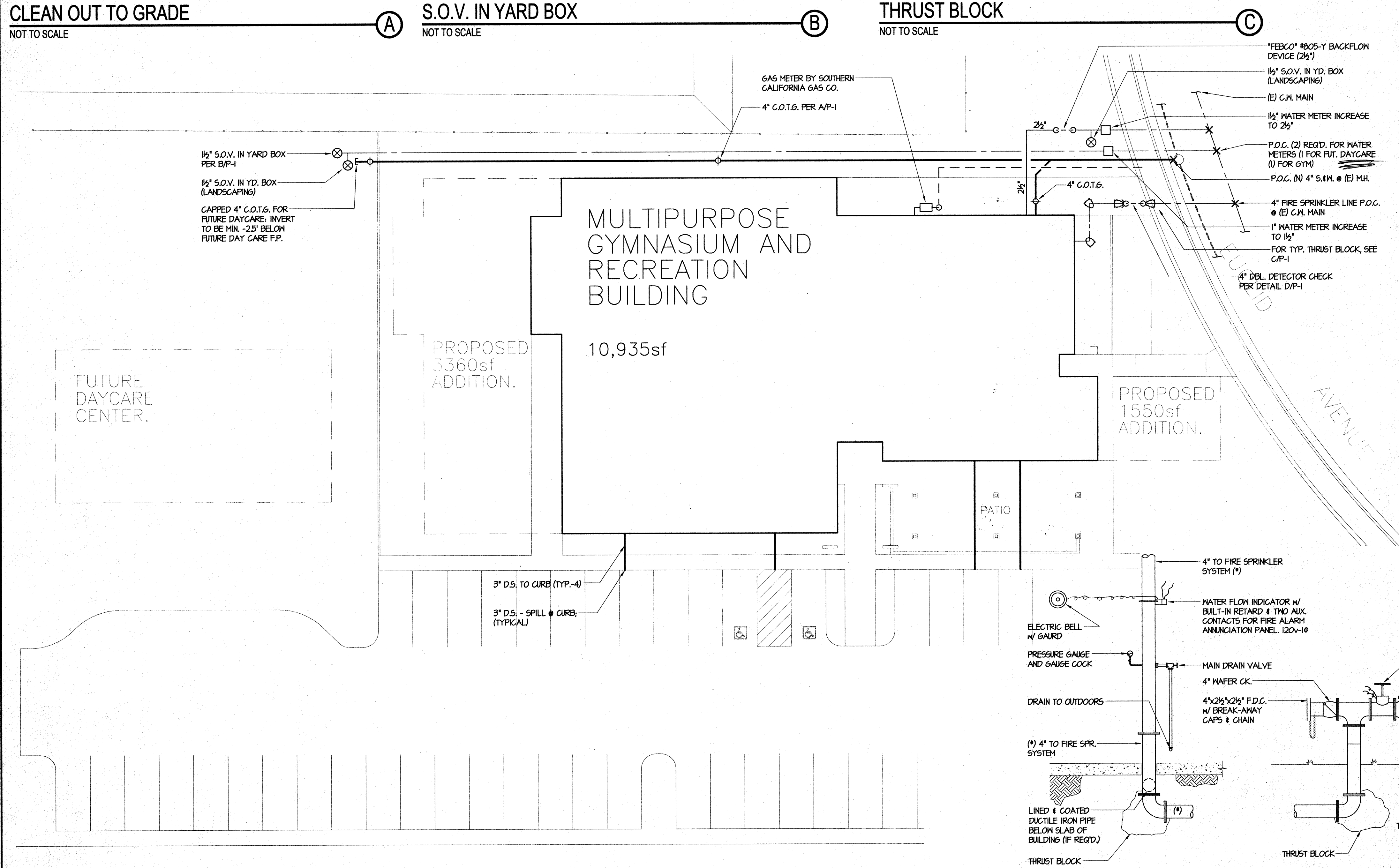
1/4" = 1'-0"



PLUMBING FIXTURE SCHEDULE

- Floor mounted F.V. A.D.A. water closet, "American Standard" #2305.100 Madera, 16 1/2" rim height, "Olsonite" #10CC open-front white seat, bolt caps, "Sloan Royal" # III-15 flush valve, (1.6 gallons/flush) 1/4" C.M., 4" S. & M., 2" V.O.
- WC-1
- Floor mounted F.V. elongated water closet, "American Standard" #2234.015 Madera, "Olsonite" #10CC open-front white seat, bolt caps, "Sloan Royal" # III-15 flush valve, (1.6 gallons/flush) 1/4" C.M., 4" S. & M., 2" V.O.
- WC-2
- Wall mounted urinal, "American Standard" # 6541.132 Allbrook, "Sloan Royal" # 186-1 flush valve, wall hanger, see architectural drawings for mounting heights, 3/4" C.M., 2" M., 2" N.C.O., 1/2" V.O.
- UR
- Counter mounted cast iron oval lavatory with Hulse rim, "American Standard" # 3211.000 Ledgeley, # 2411.015 C.P. grid drain, "Chicago" slow-closing hot/cold faucet # 802A-336, (2) angled wall stops with supplies, 17 ga. C.P. trap/tailpiece, (wrap H.M. and trap/tailpiece per specifications) 1/2" H.M./C.M., 2" M., 1/2" V.O.
- L-1
- Wall hung cast iron A.D.A. lavatory, "Commercial Enameling" # 551 (20" x 18"), "Pro-Flow" # PFH60 offset grid drain, "Chicago" slow-closing hot/cold faucet # 802A-336, (2) angled wall stops with supplies, 17 ga. C.P. trap/tailpiece, (wrap H.M. and trap/tailpiece per specifications) 1/2" H.M./C.M., 2" M., 1/2" V.O.
- L-2
- Recessed chrome plated wall box mounted hose bibb, "Woodford" # BT5 with door, integral vacuum breaker, 3/4" C.M.
- HB-1
- Wall mounted bent nose brass loose tee key hose bibb, "Woodford" # 24P with integral vacuum breaker, 3/4" C.M. (rough chrome plated for interior use)
- HB-2
- Riser mounted hose bibb, "Woodford" # Y24 with integral vacuum breaker and loose tee key handle, 3/4" C.M.
- HB-3
- Cast iron floor drain, "J.R. Smith" # 2005 with 5" dia. bronze grate, 2" trap with primer connection, 2" M., 1/2" V.O.
- FD
- Floor mounted cast iron mop sink, "American Standard" # T140.020 Floorwell, # T145.011 rim guard, # T121.030 3" strainer (3"x2" waste reducer), "Chicago" # 847 faucet with vacuum breaker and trap brace, 2" trap, 3/4" H.M./C.M., 2" M., 2" V.O.
- MS
- Trap primer, "PPP" products in wall access panel with 1/2" C.M. in manifold as required to multiple drains, see plan.
- TP
- Wall mounted dual electric handicapped drinking fountain, "Haw" # HNEFAB1, 1/6th H.P. @ 120v-lph, (1) angle wall stop with supply, 17 ga. C.P. trap/tailpiece, 2" M., 1/2" V.O.
- EDF
- Cast iron roof drain, 3" "J.R. Smith" # 1010Y, drain with cast iron strainer, overflow to be 3" "J.R. Smith" # 1080Y with cast iron strainer and integral 2" dam height.
- RD
- Electric water heater, "A.O. Smith" # DEH-30, 30 gallon glass lined tank, (2) 4500 Watt elements, (non-simultaneous) @ 240v-lph, T.A.P. relief valve with full size discharge as indicated on plan, 3/4" C.M. to and H.M. from, Provide "Amrol" #5T-12 on C.M. supply.
- EWB

COLD WATER CALCULATIONS	
1 W.C.'s @ 5	FIXTURE UNITS = 35
3 UR's @ 4	FIXTURE UNITS = 12
6 LAV's @ 1	FIXTURE UNITS = 6
1 EDF @ 5	FIXTURE UNITS = 5
1 H.B. @ 2.5	FIXTURE UNITS = 25
1 M.S. @ 3	FIXTURE UNITS = 3
3 H.B.'s @ 1	FIXTURE UNITS = 3
TOTAL FIXTURE UNITS = 62 = 56 G.P.M.	
2 1/2" @ 3.0 F.P.S. @ 12 P.S.I. LOSS / 100'	



PLUMBING SITE PLAN

NORTH

SCALE: 1/16"=1'-0"

FIRE SPRINKLER RISER

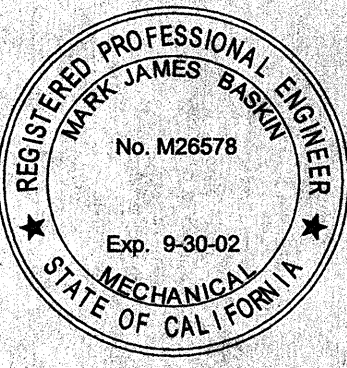
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MDC MECHANICAL DESIGN CONCEPTS

428 Truxtun Avenue Bakersfield, Ca. 93301

Tel #: (661) 326-1313 Fax #: (661) 326-1089

#02044 PLOTTED: 8-12-02



KSA GROUP ARCHITECTS

4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376

LICENSED ARCHITECT
KEN SORENSON
NO. C7290
11-30-03
RENEW DATE
STATE OF CALIFORNIA

Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE SHAFER, CA.

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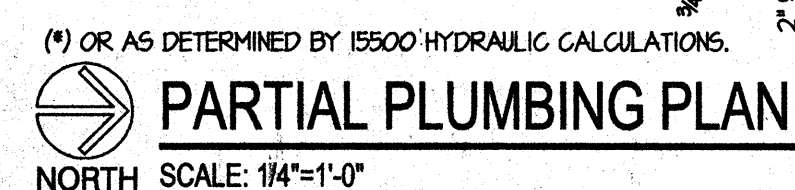
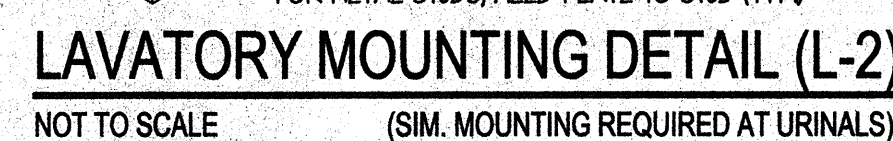
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No.	Description	Date
Revisions		
PLUMBING SITE PLAN, SCHEDULE & DETAILS		
Scale:		
Job No:	2447.01	Sheet No:
Date:	8/12/02	of 2 sheets

P1



Ken Sorenson	AIA	C 7290
Derek Holdsworth	AIA	C 8675

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Scale:	
Job No: 2447.01	Sheet No:
Date: 8/12/02	P2 of 2 sheets

MECH. EQUIPMENT SCHEDULE

Roofpack Packaged Heating-Cooling Unit, "Trane" YHC211, 1500 CFM @ 80" ESP, 3.98 BHP, 741 RPM, horizontal discharge, 184,000 BTUH total, 180,000 BTUH sensible cooling capacity (gross) @ 80/63/105, 250,000 BTUH heating input, 203,000 BTUH output, two stage heating, natural gas. Unit complete with fully integrated economizer with differential enthalpy control and power exhaust fan option, factory mounted and wired supply plenum smoke detector, belt drive supply fan, time delay relay, high and low pressure switches, (b) 20" x 25" x 2" deep "Fan" 30/30 filters in factory filter rack, and optional 14 gauge pitched roof curb, 1150 EER, 0.18 AFUE minimum. Provide optional wall mounted C22 sensor with lowered metal locking guard and factory controls package to interlock with economizer dampers. Field mount, anchor, and wire power exhaust fan module. Locate power exhaust at return duct main.

Electrical: 92.0 FLA @ 208v-3ph.
120v-lph. (smoke detector)

Operating weight: 2,450 lbs.

Roofpack Packaged Heating-Cooling Unit, "Trane" YHC022, 2400 CFM @ 0.80" ESP, 1.01 BHP, 882 RPM, 63/10 BTUH total, 63/10 BTUH sensible cooling capacity (gross) @ 80/64/105, 80,000 BTUH heating input, 48,000 BTUH output, natural gas. Unit complete with fully integrated economizer with differential enthalpy control and power exhaust fan option, factory mounted and wired supply plenum smoke detector, belt drive supply fan, time delay relay, high and low pressure switches, and optional 14 gauge roof curb, (2) 20" x 25" x 2" deep "Fan" 30/30 filters in factory filter rack. 1150 EER, 0.18 AFUE minimum.

Electrical: 36.2 FLA @ 208v-3ph.
120v-lph. (smoke detector)

Operating weight: 1,010 lbs.

Roofpack Packaged Heating-Cooling Unit, "Trane" YHC060, 1450 CFM @ 0.6" ESP, 0.99 BHP, 1051 RPM, 53/10 BTUH total, 50/160 BTUH sensible cooling capacity (gross) @ 80/64/105, 60,000 BTUH heating input, 48,000 BTUH output, natural gas. Unit complete with fully integrated economizer with differential enthalpy control, barometric relief, time delay relay, high and low pressure switches, and optional 14 gauge roof curb, (2) 20" x 25" x 2" deep "Fan" 30/30 filters in factory filter rack. 122 SEER/10.1 EER, 0.18 AFUE minimum. Provide optional belt drive fan motor.

Electrical: 24.4 FLA @ 208v-3ph.

Operating weight: 740 lbs.

Roofpack Packaged Heating-Cooling Unit, "Trane" YHC048, 1600 CFM @ 0.6" ESP, 0.71 BHP, 1002 RPM, 43/400 BTUH total, 40/100 BTUH sensible cooling capacity (gross) @ 80/63/105, 60,000 BTUH heating input, 48,000 BTUH output, natural gas. Unit complete with fully integrated economizer with differential enthalpy control, barometric relief, time delay relay, high and low pressure switches, and optional 14 gauge roof curb, (2) 20" x 25" x 2" deep "Fan" 30/30 filters in factory filter rack. 11.4 SEER/10.5 EER, 0.18 AFUE minimum. Provide optional belt drive fan motor.

Electrical: 20.1 FLA @ 208v-3ph.

Operating weight: 710 lbs.

Upblast Exhaust Fan, "Greenheck" CUBE-48-4, 600 CFM @ 0.60" S.P., 1500 RPM, 0.15 BHP, 1/4 HP belt drive motor. Complete with pitched roof curb. 11.7 sones max. Interlock start/stop with A/C-2 supply fan operation.

Electrical: 1/4 HP @ 120v-lph.

Operating weight: 52 lbs.

Ceiling Exhaust Fan, "Greenheck" SP-210, 106 CFM @ 125" S.P., 950 RPM. Complete with full size discharge to roof cap. Interlock with switch adjacent to light switch.

Electrical: 50 watts @ 120v-lph.

Operating weight: 15 lbs.

Gravity Vent, "Greenheck" GRS-14, 14" x 14" duct connection.

Note: Confirm voltage and phase of power service prior to ordering any equipment. Coordinate with electrical contractor.

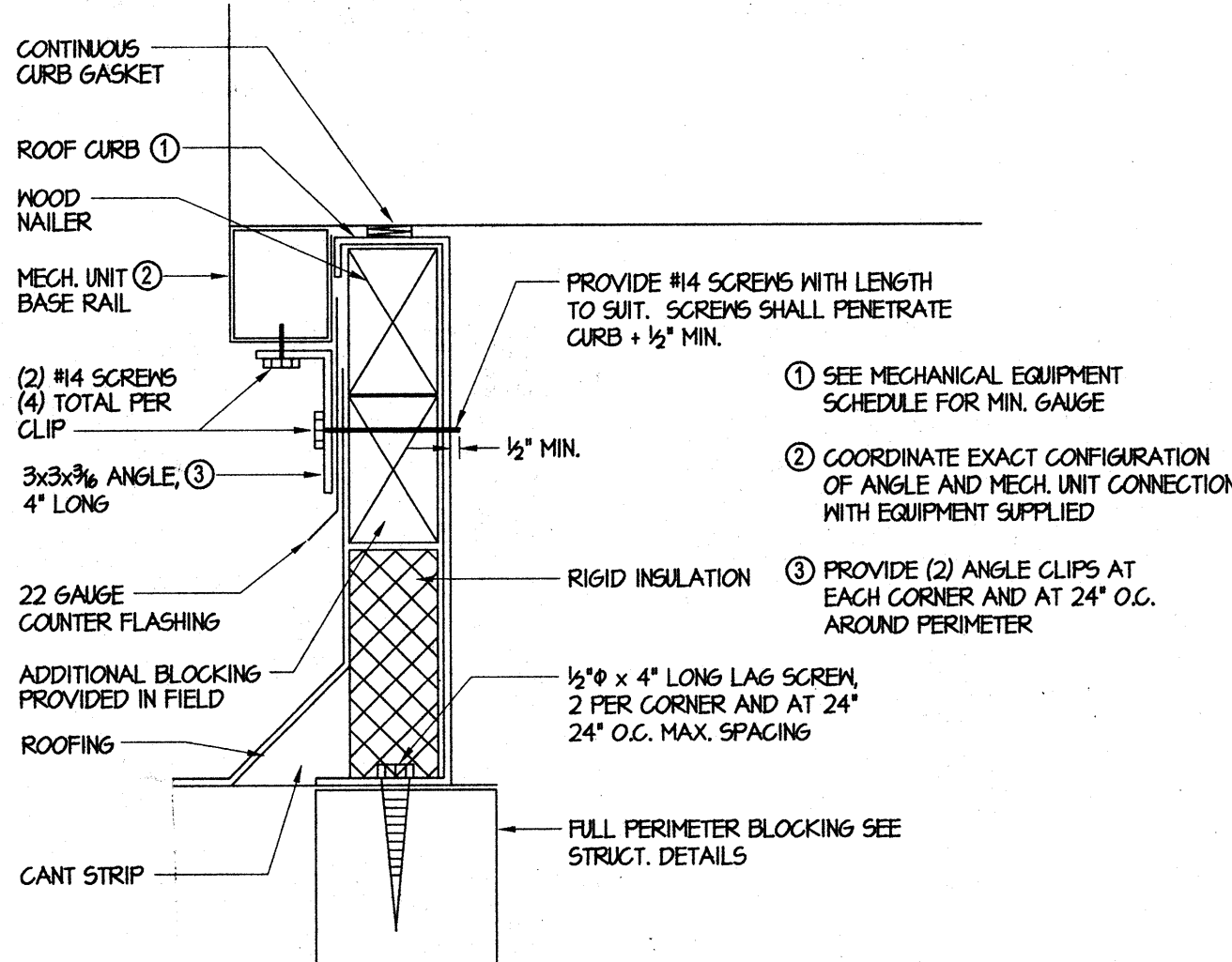
GRILLE SCHEDULE

CD-1 Titus MCD modular core diffuser with lay-in ceiling frame and O.B.D.
CD-2 Titus MCD modular core diffuser with flat face surface mount frame and O.B.D.
MS-1 Titus 30IRL-HD heavy-duty double deflection sidewall supply grille with 14 gauge blades, 1/2" spacing and O.B.D.
CR-1 Titus 50T aggregate return grille with lay-in ceiling frame. Provide lay-in panel cone, size per plans.
WR-1 Titus 355ZRL-HD heavy-duty sidewall return grille with 14 gauge blades, zero degree deflection, and 1/2" spacing.
CE-1 Titus 355ZRL-HD heavy-duty sidewall return grille with 14 gauge blades, zero degree deflection, and 1/2" spacing.

Notes: 1. Provide CFM and blow patterns as noted on plans.
2. See diffuser sizing chart for diffuser neck sizes.
3. Paint all visible surfaces behind diffuser and grille faces flat black.

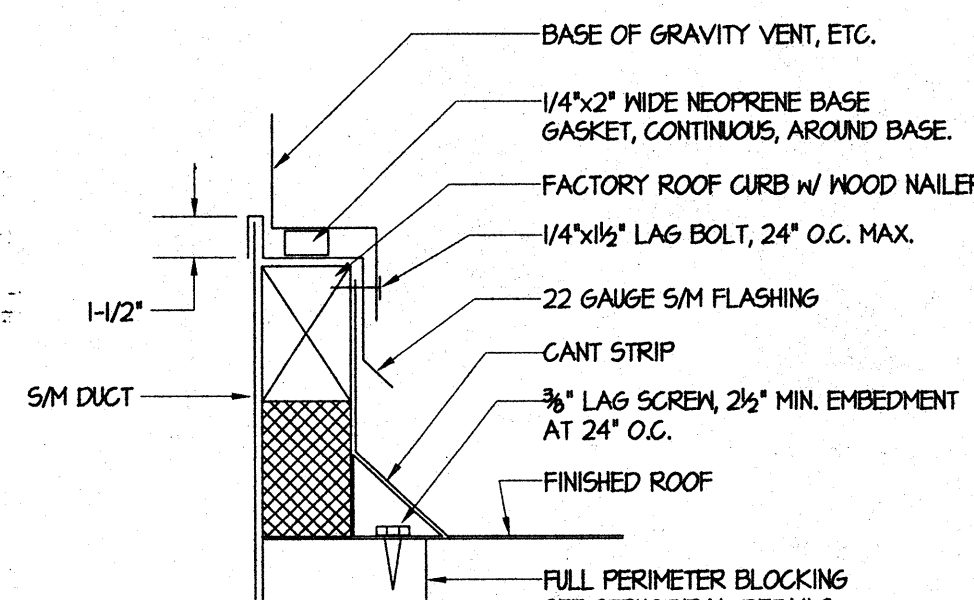
Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal Location
	A.H.	Air Handler		M.O.	Motor Operated
	B.T.	Bypass Timer		(N)	New
	B.V.	Butterfly Valve		N.C.	Normally Closed
	C.D.	Condensate Drain		N.I.C.	Not in Contract
	C.E.	Ceiling Exhaust Register		N.O.	Normally Open
	C.W.R.	Condenser Water Return		O.S.A.	Outside Air
	C.W.S.	Condenser Water Supply		O.B.D.	Opposed Blade Damper
	C.H.W.R.	Chilled/Hot Water Return		P.O.C.	Point of Connection
	C.H.W.S.	Chilled/Hot Water Supply		P.P.	Petes Plug
	COMB.	Combustion		P.R.V.	Pressure Reducing Valve
	CONN.	Connection		SIM.	Similar
	CONT.	Continuation		S.M.	Sheet Metal
	C.R.	Ceiling Return Register		S.O.V.	Shut Off Valve
	C.S.	Ceiling Supply Register		S.P.S.T.	Single Pole Single Throw
	C.V.	Check Valve		STAT	Thermostat @ +4.0"
	D.C.W.	Domestic Cold Water		SURF.	Surface
	DIA.	Diameter		(TYP)	Typical
	D.L.	Door Louver		U.G.	Underground
	DN.	Down		U.N.O.	Unless Noted Otherwise
	D.P.D.T.	Double Pole Double Throw		V.D.	Volume Damper
	D.T.R.	Duct Thru Roof		W/	With
	(E)	Existing		W.R.	Wall Return Register
	E.F.	Exhaust Fan		W.S.	Wall Supply Register
	E.M.S.	Energy Management System			Duct w/ Acoustic Lining
	EXH.	Exhaust		T.V.	Turning Vanes
	F.D.	Fire Damper w/ acc. panel			Extractor
	Flex. Conn.	Flexible Connection			Strainer w/ Cock
	FLR.	Floor			Union
	F.T.R.	Flue Thru Roof			Reducer or Increaser
	Furn.	Furnace			
	GAL.	Gauge			
	GAL.	Gallon			
	GALV.	Galvanized			
	G.P.M.	Gallons per Minute			
	GRD.	Grade			
	G.V.	Gate Valve			



ROOF MOUNTED MECHANICAL UNIT SUPPORT

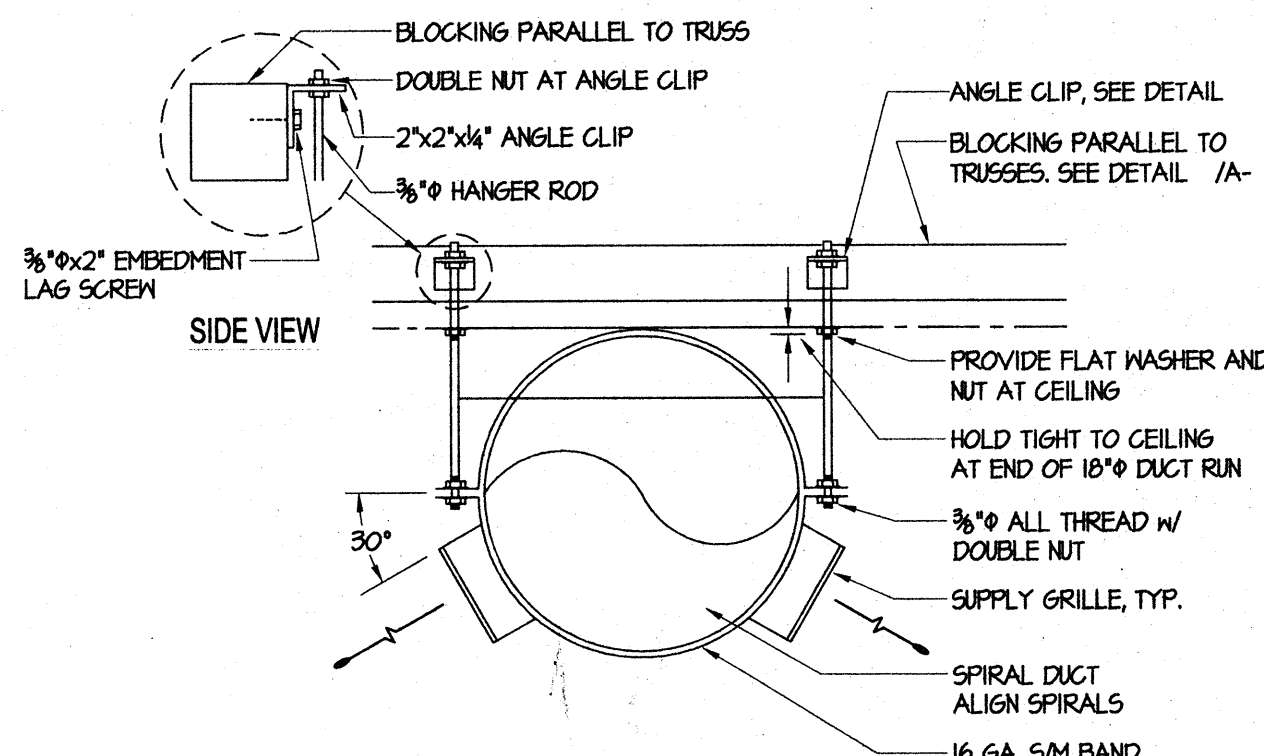
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NOTE: PROVIDE BACKDRAFT DAMPER IN EXHAUST FAN RISERS.

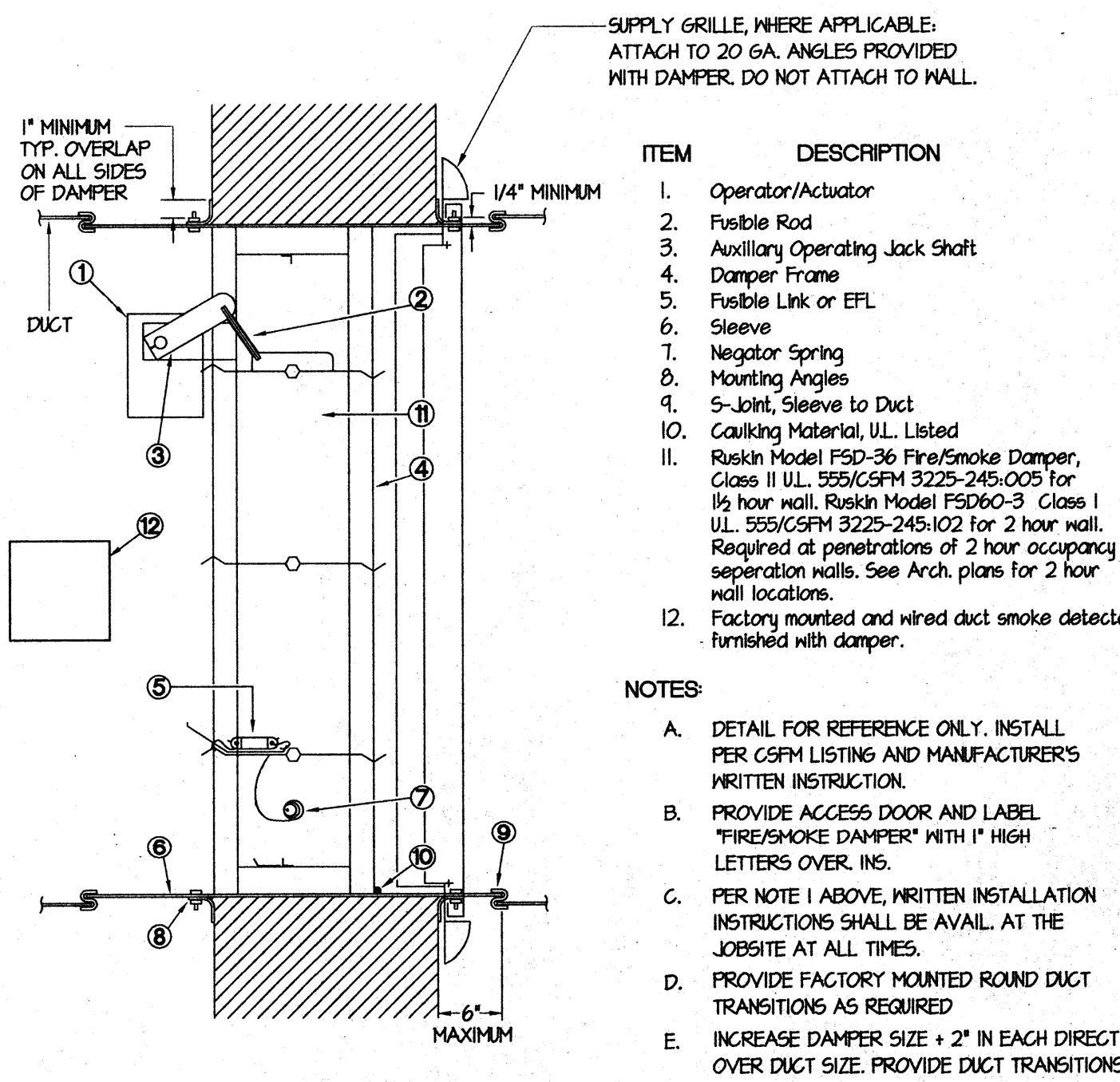
EXHAUST FAN / GRAVITY VENT SUPPORT

NOT TO SCALE



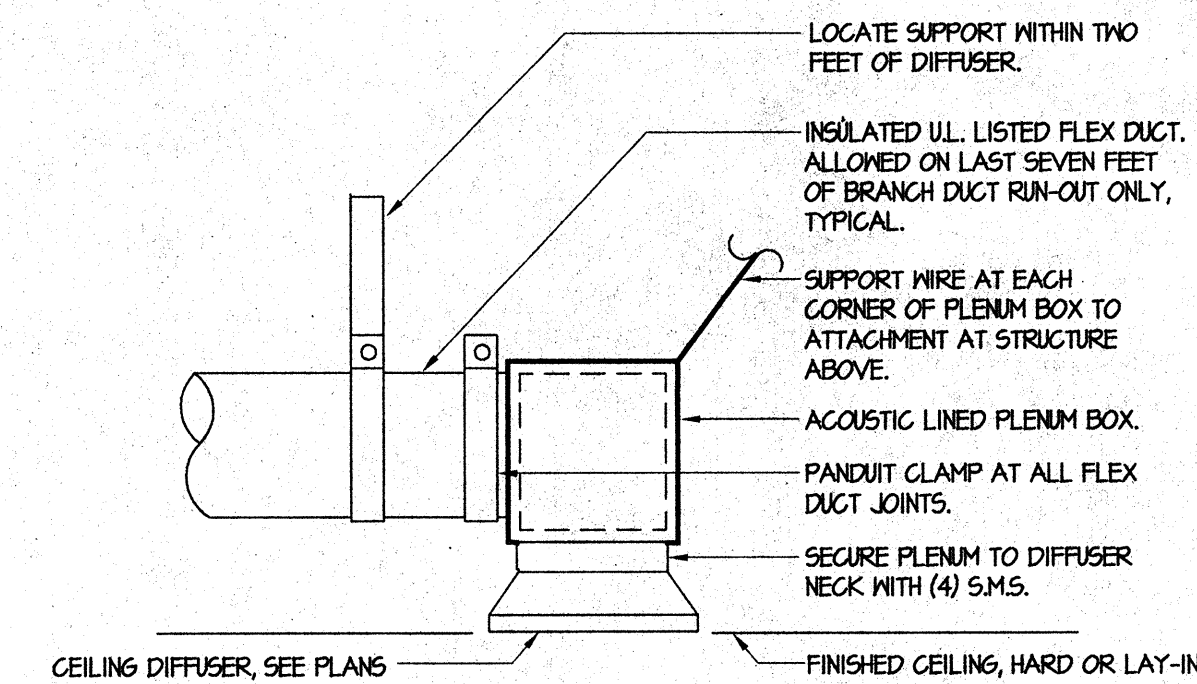
EXPOSED DUCT HANGER

NOT TO SCALE



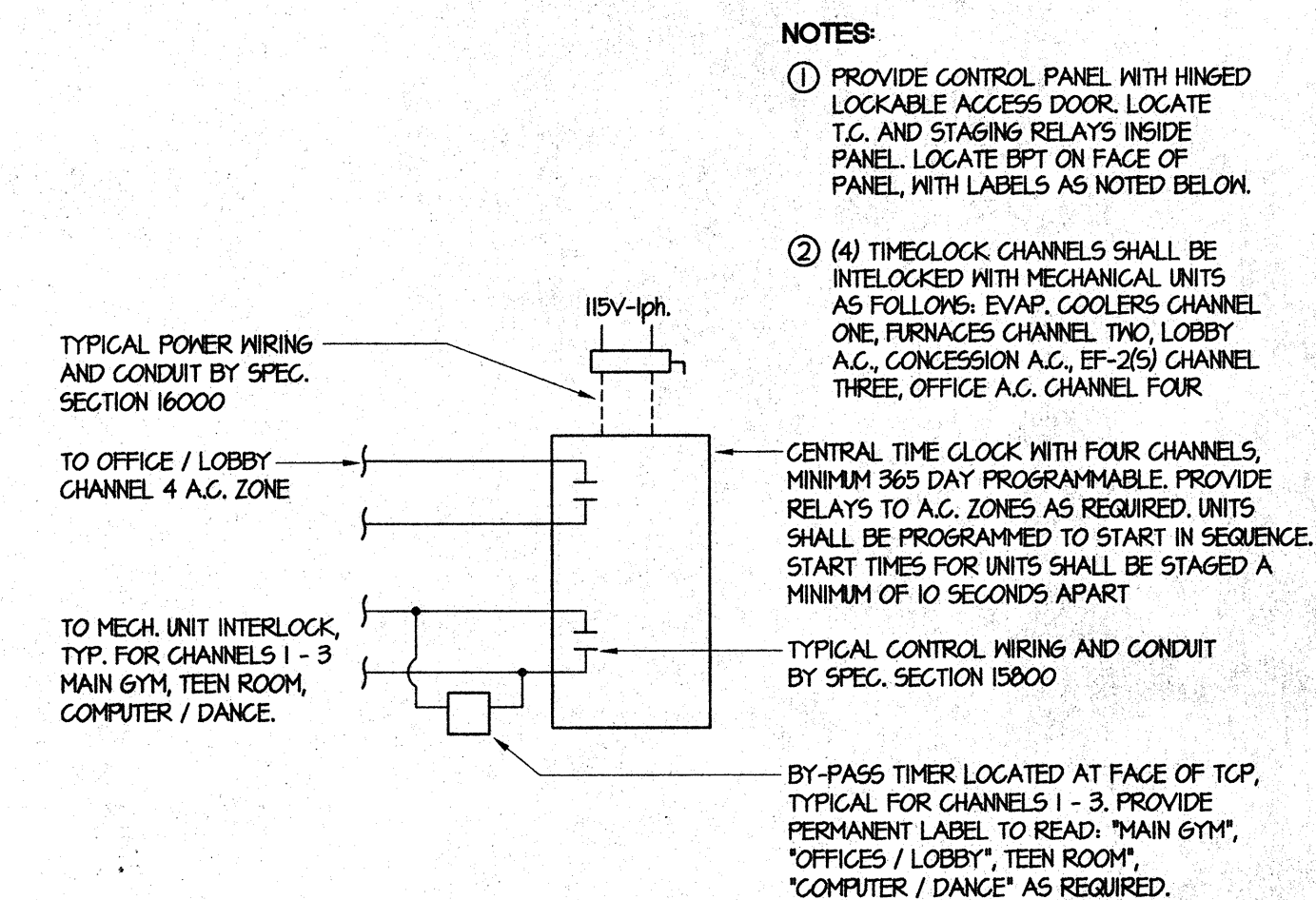
S.F.D. INSTALLATION SIDEWALL GRILLE OR HORZ. GRILLE

NOT TO SCALE



CEILING DIFFUSER / REGISTER CONN.

NOT TO SCALE

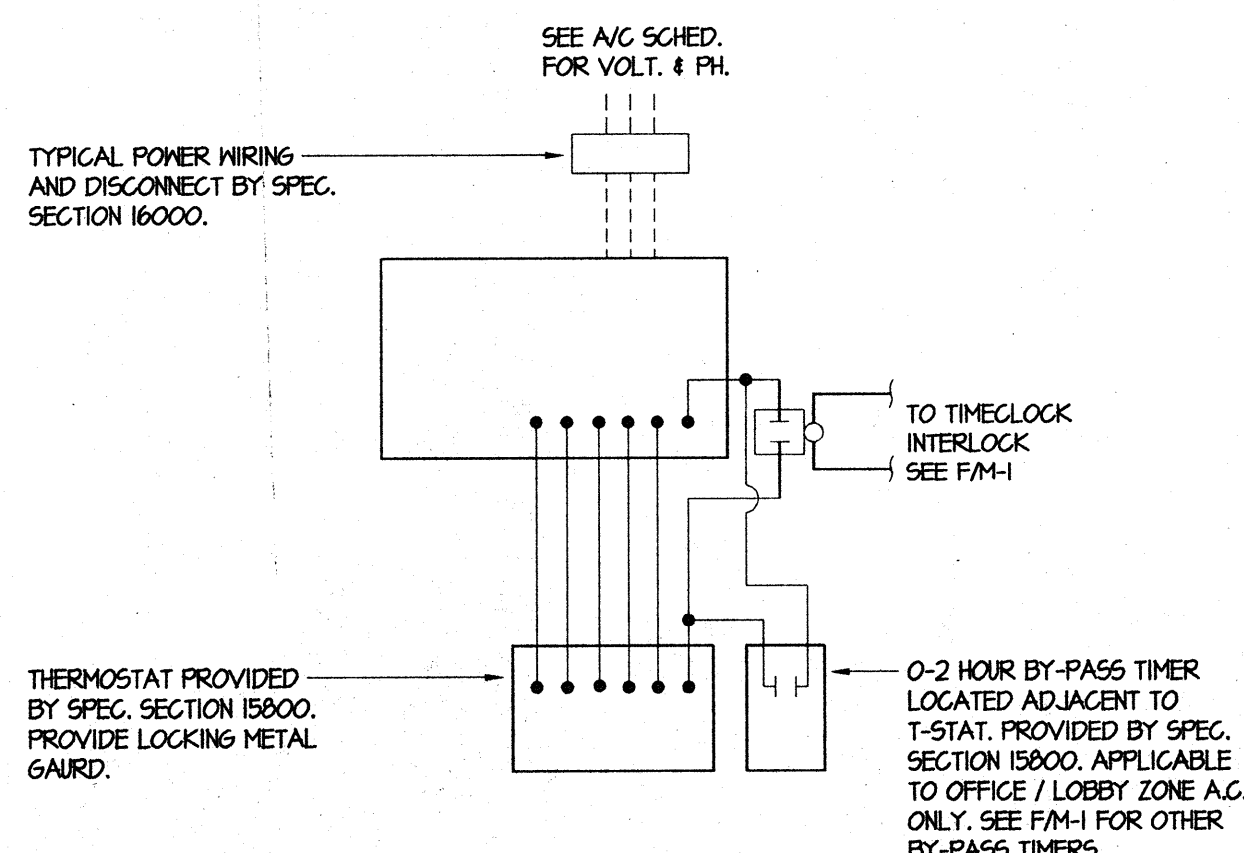


TIME CLOCK

DIAGRAMMATIC

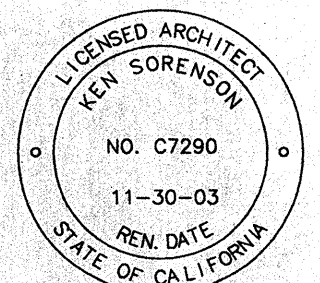
A/C - 1, 2, AND F-1 CONTROLS

DIAGRAMMATIC



KSA GROUP ARCHITECTS

4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE
SHAFTER, CA.

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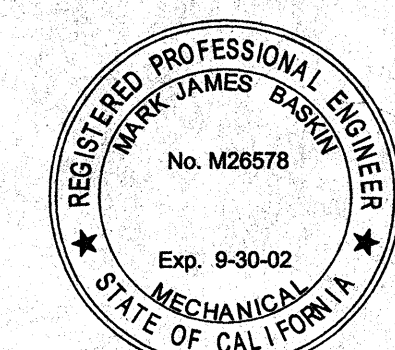
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No.	Description	Date

MECHANICAL SCHEDULE & DETAILS

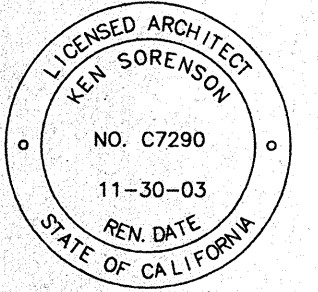
Scale:	Job No:	Sheet No:
	2447.01	M1
Date:	8/12/02	of 4 sheets

MDC MECHANICAL DESIGN CONCEPTS
428 Truxtun Avenue Bakersfield, Ca. 93301
Tel #: (661) 326-1313 Fax #: (661) 326-1089
#02044 PLOTTED: 8-12-02





4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



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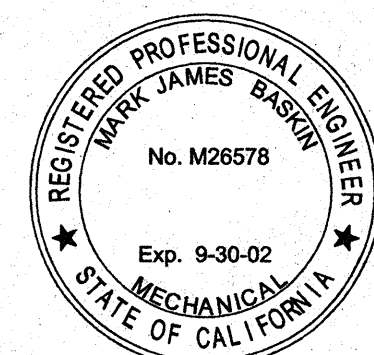
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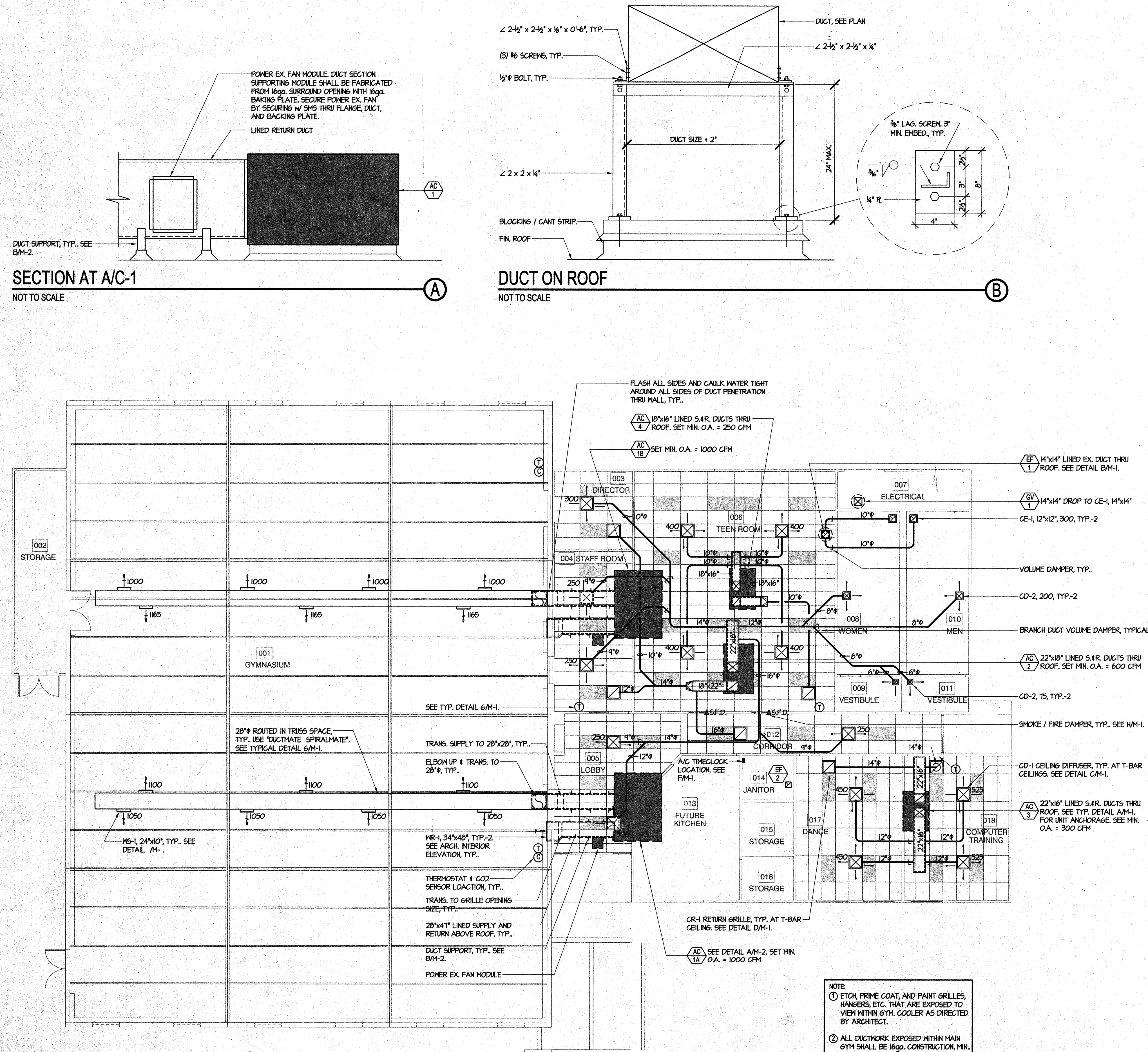
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MECHANICAL PLAN

Scale: Job No: 2447.01 Sheet No: M2
Date: 8/12/02 of 4 sheets



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MECHANICAL PLAN
NORTH SCALE: 1/8"=1'-0"

PERFORMANCE CERTIFICATE OF COMPLIANCE Part 1 of 3 PERF-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

PROJECT ADDRESS: Euclid Ave. Shafter

PRINCIPAL DESIGNER - ENVELOPE: KSA Group Architects TELEPHONE: (661) 834-1331

DOCUMENT AUTHOR: Mechanical Design Concepts, Inc. TELEPHONE: (661) 326-1313

Building Permit #

Checked by / Date

Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS: 01/02 BUILDING CONDITIONED FLOOR AREA: 10,418 sq. ft. CLIMATE ZONE: I3

BUILDING TYPE: ☒ NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL / MOTEL GUEST ROOM

PHASE OF CONSTRUCTION: ☒ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION ☐ EXISTING + ADDITION

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6, of the State Building Code. This certificate applies only to a building using the performance compliance approach.

DOCUMENTATION AUTHOR: Mark Bashkin SIGNATURE: DATE:

The Principal Designers hereby certify that the proposed building design represented in the construction documents and modeled for this permit application are consistent with all other forms and worksheets, specifications, and other calculations submitted with this permit application. The proposed building as designed meets the energy efficiency requirements of the State Building Code, Title 24, Part 6.

ENV. LTG. MECH.

☐ ☐ ☐ 1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed as a Civil Engineer, mechanical engineer, electrical engineer or architect.

☐ ☐ ☐ 2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor preparing documents for work that I have contracted to perform.

☐ ☐ ☐ 3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537.2 or 6737.1. (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

ENVELOPE OF COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures Required Forms: ENV-1 LIC. NO. CT240 DATE: 1-25-02

PRINCIPAL ENVELOPE DESIGNER - NAME: KSA Group Architects SIGNATURE: DATE:

LIGHTING OF COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures Required Forms: Lighting Compliance Not in the Scope Of this Submittal LIC. NO. DATE:

MECHANICAL OF COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures Required Forms: MECH-1, MECH-2, MECH-3 LIC. NO. M26578 DATE: 1-25-02

PRINCIPAL ENVELOPE DESIGNER - NAME: Mark Bashkin, MDC Engineers SIGNATURE: DATE:

PERFORMANCE CERTIFICATE OF COMPLIANCE Part 2 of 3 PERF-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

ANNUAL SOURCE ENERGY USE SUMMARY (kBtu / sqft - yr)

ENERGY COMPONENT	Standard Design	Proposed Design	Compliance Margin
Space Heating	12.47	11.99	0.98
Space Cooling	52.61	41.24	11.37
Indoor Fans	34.42	43.86	-4.43
Heat Rejection	0.00	0.00	0.00
Pumps	0.00	0.00	0.00
Domestic Hot Water	0.00	0.00	0.00
Lighting	34.79	34.79	0.00
Receptacle	13.25	13.25	0.00
Process	0.00	0.00	0.00
TOTALS:	153.04	145.17	7.92

BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation: (East) 90 deg. Conditioned Floor Area: 10,418 sqft. Unconditioned Floor Area: 0 sqft. Number of Stories: 1 Number of Systems: 6 Conditioned Footprint Area: 10,418 sqft. Number of Zones: 5

Orientation: (East) Gross Area: 2,904 sqft. Glazing Area: 244 sqft. Glazing Ratio: 10.1% (South) 2,670 sqft. 46 sqft. 3.4% (West) 2,828 sqft. 70 sqft. 2.3% (North) 2,866 sqft. 460 sqft. 4.0% Total: 11,390 sqft. 960 sqft. 0.0% Roof: 9,600 sqft. 0 sqft. 0.0%

Lighting Power Density: Standard 1.181 W/sqft. Proposed 1.514 W/sqft. Prescriptive Env. Heat Loss: 1,966 Prescriptive Env. Heat Gain: 204,333 131,828

Remarks:

PERFORMANCE CERTIFICATE OF COMPLIANCE Part 3 of 3 PERF-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft)	Inlet Load (Watt)	Diff. Credits (Watt)	Lpd (Watt/sqft)	Tilted Vent (sf)	Proc. Loads (Watt)
Future Kitchen	Future Kitchen	Kitchen & Food Prep	432	11,100				
Team Room	Team Room	Classroom	1,080	11,100				
Staff, Corridor, & Toilets	Staff, Corridor, & Toilets	Office	1,568	11,100				
Dance & Computer	Dance & Computer	Classroom	768	11,100				
Main Gym	Main Gym	Gymnasium	6,252	11,100				

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The HVAC System "115 ton Trane" Premium EHP 340 BHP Supply Fan Motor has been specified.

The HVAC System "4 ton Trane" includes an Economizer. This system has a cooling output < 75,000 btu/h or a supply cfm < 2500.

The HVAC System "4 ton Trane" Premium EHP 0.94 BHP Supply Fan Motor has been specified.

The HVAC System "5 ton Trane" includes an Economizer. This system has a cooling output < 75,000 btu/h or a supply cfm < 2500.

The HVAC System "5 ton Trane" Premium EHP 0.94 BHP Supply Fan Motor has been specified.

The HVAC System "6 ton Trane" includes an Economizer. This system has a cooling output < 75,000 btu/h or a supply cfm < 2500.

The HVAC System "6 ton Trane" Premium EHP 1.01 BHP Supply Fan Motor has been specified.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp:

ENVELOPE COMPLIANCE SUMMARY Performance ENV-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

OPAQUE SURFACES

#	Surface Type	Framing Type	Area	U-Fac.	Act. Azm.	Tilt	Solar Gain Y/N	Form 3 Reference	Location / Comments
1	Roof	Wood	482	0.028	0	0		R-30 Roof (R-30-24-46)	Future Kitchen
2	Hall	Wood	74	0.028	90	90		R-13 Hall (R-13-24-46)	Future Kitchen
3	Hall	Wood	92	0.028	180	90		R-13 Hall (R-13-24-46)	Future Kitchen
4	Roof	Wood	1,080	0.028	0	0		R-30 Roof (R-30-24-46)	Team Room
5	Hall	Wood	432	0.028	180	90		R-13 Hall (R-13-24-46)	Team Room
6	Roof	Wood	768	0.028	0	0		R-30 Roof (R-30-24-46)	Staff, Corridor, & Toilets
7	Hall	Wood	58	0.028	90	90		R-13 Hall (R-13-24-46)	Staff, Corridor, & Toilets
8	Hall	Wood	540	0.028	0	0		R-13 Hall (R-13-24-46)	Staff, Corridor, & Toilets
9	Hall	Wood	448	0.028	270	90		R-13 Hall (R-13-24-46)	Staff, Corridor, & Toilets
10	Roof	Wood	768	0.028	0	0		R-30 Roof (R-30-24-46)	Dance & Computer
11	Hall	Wood	48	0.028	0	90		R-13 Hall (R-13-24-46)	Dance & Computer
12	Hall	Wood	274	0.028	90	90		R-13 Hall (R-13-24-46)	Dance & Computer
13	Roof	Wood	6,252	0.028	0	0		R-30 Roof (R-30-24-46)	Main Gym
14	Hall	Wood	1,024	0.028	270	90		R-13 Hall (R-13-24-46)	Main Gym
15	Hall	Wood	770	0.028	270	90		R-13 Hall (R-13-24-46)	Main Gym
16	Hall	Wood	1,862	0.028	180	90		R-13 Hall (R-13-24-46)	Main Gym
17	Hall	Wood	1,022	0.028	180	90		R-13 Hall (R-13-24-46)	Main Gym
18	Hall	Wood	1,254	0.028	90	90		R-13 Hall (R-13-24-46)	Main Gym
19	Hall	Wood	770	0.028	90	90		R-13 Hall (R-13-24-46)	Main Gym
20	Hall	Wood	1,862	0.028	0	90		R-13 Hall (R-13-24-46)	Main Gym

FENESTRATION SURFACES

#	Type	Area	U-Val	Act. Azm.	SHGC	Glazing Type	Location / Comments
1	Window	22	0.370	90	0.52	Specified Glass Solar Film	Future Kitchen
2	Window	10	1.260	90	0.52	Single Heat Tinted Default	Staff, Corridor, & Toilets
3	Window	48	1.260	0	0.52	Single Heat Tinted Default	Staff, Corridor, & Toilets
4	Window	22	0.370	0	0.52	Specified Glass Solar Film	Dance & Computer
5	Window	66	0.370	90	0.52	Specified Glass Solar Film	Dance & Computer
6	Window	96	0.370	270	0.52	Specified Glass Solar Film	Main Gym
7	Window	96	0.370	90	0.52	Specified Glass Solar Film	Main Gym

EXTERIOR SHADING

#	Exterior Shade Type	SHGC	Window Hgt. Wd.	Len.	Overhang Hgt. Len.	REXT	Left Fin. Dist. Len. Hgt.	Right Fin. Dist. Len. Hgt.
1	None	0.16	10.0	1.0	8.0	1.0	1000	1000
2	None	0.16	10.0	1.0	8.0	1.0	1000	1000
3	None	0.16						
4	None	0.16						
5	None	0.16						
6	None	0.16						
7	None	0.16						

ENVELOPE COMPLIANCE SUMMARY Performance ENV-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

OPAQUE SURFACES

#	Surface Type	Framing Type	Area	U-Fac.	Act. Azm.	Tilt	Solar Gain Y/N	Form 3 Reference	Location / Comments
21	Hall	Wood	402	0.028	0	90		R-13 Hall (R-13-24-46)	Main Gym

FENESTRATION SURFACES

#	Type	Area	U-Val	Act. Azm.	SHGC	Glazing Type	Location / Comments
---	------	------	-------	-----------	------	--------------	---------------------

EXTERIOR SHADING

#	Exterior Shade Type	SHGC	Window Hgt. Wd.	Len.	Overhang Hgt. Len.	REXT	Left Fin. Dist. Len. Hgt.	Right Fin. Dist. Len. Hgt.
---	---------------------	------	-----------------	------	--------------------	------	---------------------------	----------------------------

CERTIFICATE OF COMPLIANCE Performance MECH-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

SYSTEM FEATURES

SYSTEM NAME	Future Kitchen	Team Room	Staff, Corridor, & Toilets	NOTE TO FIELD
TIME CONTROL	Programmable Switch	Programmable Switch	Programmable Switch	
SETBACK CONTROL	Heating & Cooling Required	Heating & Cooling Required	Heating & Cooling Required	
ISOLATION ZONES	n/a	n/a	n/a	
HEAT PUMP THERMOSTAT ?	n/a	n/a	n/a	
ELECTRIC HEAT ?	n/a	n/a	n/a	
FAN CONTROL	Constant Volume	Constant Volume	Constant Volume	
VAV MINIMUM POSITION CONTROL ?	No	No	No	
SIMULTANEOUS HEAT / COOL ?	No	No	No	
HEATING SUPPLY RESET	Constant Temp	Constant Temp	Constant Temp	
COOLING SUPPLY RESET	Constant Temp	Constant Temp	Constant Temp	
HEATING REJECTION CONTROL	n/a	n/a	n/a	
VENTILATION	Air Balance	Air Balance	Air Balance	
OUTDOOR DAMPER CONTROL	Auto	Auto	Auto	
ECONOMIZER TYPE	Diff. Ent. (Integrated)	Diff. Ent. (Integrated)	Diff. Ent. (Integrated)	
DESIGN AIR CFM (MECH-3, COLUMN H)	595 cfm	228 cfm	595 cfm	
HEATING EQUIPMENT TYPE	Gas Furnace	Gas Furnace	Gas Furnace	
HEATING EQUIPMENT EFFICIENCY	88% AFUE	88% AFUE	88% AFUE	
COOLING EQUIPMENT TYPE	Packaged DX	Packaged DX	Packaged DX	
COOLING EQUIPMENT EFFICIENCY	11.4 SEER / 10.5 EER	11.4 SEER / 10.5 EER	12.2 SEER / 11.5 EER	
MAKE AND MODEL NUMBER	4 ton Trane	4 ton Trane	6 ton Trane	
HEATING DUCT LOCATION	Ducts in Attic	Ducts in Attic	Ducts in Attic	
COOLING DUCT LOCATION	Ducts in Attic	Ducts in Attic	Ducts in Attic	
PIPE / DUCT INSULATION PROTECTED ?	No	No	No	
PIPE TYPE (SUPPLY, RETURN, ETC.)	No	No	No	
PIPE INSULATION REQUIRED ?	No	No	No	
VERIFIED SEALED DUCTS IN CEILING / ROOF SPACE	No	No	No	

CODE TABLES: Enter code from table below into columns above.

HEAT PUMP THERMOSTAT ?	ELECTRIC HEAT ?	VAV MINIMUM POSITION CONTROL ?	SIMULTANEOUS HEAT / COOL ?	HEATING SUPPLY RESET	COOLING SUPPLY RESET	HEATING REJECTION CONTROL ?	PIPE TYPE (SUPPLY, RETURN, ETC.)	PIPE INSULATION REQUIRED ?	VERIFIED SEALED DUCTS IN CEILING / ROOF SPACE
S: Prog. Switch C: Cooling M: Manual Timer	Y: Yes N: No	Y: Yes N: No	Y: Yes N: No	B: Air Balance C: Outside Air Cert. M: Out. Air Measure D: Demand Control N: Natural	A: Auto G: Gravity	A: Air W: Water N: Not Required	Enter Outdoor Air CFM Note: This shall be no less than Col. H on MECH-3.		

NOTES TO FIELD - For Building Department Use Only

CERTIFICATE OF COMPLIANCE Performance MECH-1

PROJECT NAME: KCEOC Shafter Gym DATE: 1/25/2002

SYSTEM FEATURES

SYSTEM NAME	Dance & Computer	Main Gym	NOTE TO FIELD
TIME CONTROL	Programmable Switch	Programmable Switch	
SETBACK CONTROL	Heating & Cooling Required	Heating & Cooling Required	
ISOLATION ZONES	n/a	n/a	
HEAT PUMP THERMOSTAT ?	n/a	n/a	
ELECTRIC HEAT ?	n/a	n/a	
FAN CONTROL	Constant Volume	Constant Volume	
VAV MINIMUM POSITION CONTROL ?	No	No	
SIMULTANEOUS HEAT / COOL ?	No	No	
HEATING SUPPLY RESET	Constant Temp	Constant Temp	
COOLING SUPPLY RESET	Constant Temp	Constant Temp	
HEATING REJECTION CONTROL	n/a	n/a	
VENTILATION	Air Balance	Air Balance	
OUTDOOR DAMPER CONTROL	Auto	Auto	
ECONOMIZER TYPE	Diff. Ent. (Integrated)	Diff. Ent. (Integrated)	
DESIGN AIR CFM (MECH-3, COLUMN H)	182 cfm	3001 cfm	
HEATING EQUIPMENT TYPE	Gas Furnace	Gas Furnace	
HEATING EQUIPMENT EFFICIENCY	88% AFUE	88% AFUE	
COOLING EQUIPMENT TYPE	Packaged DX	Packaged DX	
COOLING EQUIPMENT EFFICIENCY	12.2 SEER / 10.1 EER	11.0 EER	
MAKE AND MODEL NUMBER	5 ton Trane	115 ton Trane	
HEATING DUCT LOCATION	Ducts in Attic	Ducts in Attic	
COOLING DUCT LOCATION	Ducts in Attic	Ducts in Attic	
PIPE / DUCT INSULATION PROTECTED ?	No	No	
PIPE TYPE (SUPPLY, RETURN, ETC.)	No	No	
PIPE INSULATION REQUIRED ?	No	No	
VERIFIED SEALED DUCTS IN CEILING / ROOF SPACE	No	No	

CODE TABLES: Enter code from table below into columns above.

HEAT PUMP THERMOSTAT ?	ELECTRIC HEAT ?	VAV MINIMUM POSITION CONTROL ?	SIMULTANEOUS HEAT / COOL ?	HEATING SUPPLY RESET	COOLING SUPPLY RESET	HEATING REJECTION CONTROL ?	PIPE TYPE (SUPPLY, RETURN, ETC.)	PIPE INSULATION REQUIRED ?	VERIFIED SEALED DUCTS IN CEILING / ROOF SPACE
S: Prog. Switch C: Cooling M: Manual Timer	Y: Yes N: No	Y: Yes N: No	Y: Yes N: No	B: Air Balance C: Outside Air Cert. M: Out. Air Measure N: Natural	A: Auto G: Gravity	A: Air W: Water N: Not Required	Enter Outdoor Air CFM Note: This shall be no less than Col. H on MECH-3.		

NOTES TO FIELD - For Building Department Use Only

KSA GROUP ARCHITECTS

4660 American Avenue Suite 200 Bakersfield, California 93309

(661) 834-1331 FAX (661) 834-1376

Ken Sorenson AIA C 7290

Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE SHAFTER, CA.

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No.	Description	Date
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Revisions

T-24 SHEETS

Scale: Job No: 2447.01 Sheet No: M3

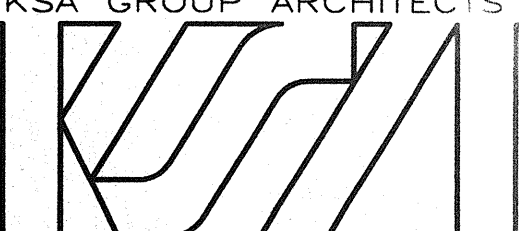
Date: 8/12/02 of 4 sheets

MECHANICAL MANDATORY MEASURES		ENV-MM
PROJECT NAME KCEOC Shafter Gym	DATE 1/25/2002	
DESCRIPTION	Designer	Enforcement
☒ §118(a) Installed Insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.		
☒ §118(c) All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2802 and 707 of Title 24, Part 2.		
☒ §117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.		
☐ §116(b) Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).		
☒ §116(a) Manufactured Doors and windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.		
☒ §118(e) Demising Walls in Nonresidential Buildings: The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.		

MECHANICAL MANDATORY MEASURES		Part 1 of 2	MECH-MM
PROJECT NAME KCEOC Shafter Gym	DATE 1/25/2002		
DESCRIPTION	Designer	Enforcement	
Equipment Systems Efficiencies			
☒ §111 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.			
☒ §115(a) Fan type central furnaces shall not have a pilot light.			
☐ §123 Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.			
☒ §124 Air handling duct systems shall be installed and insulated in compliance with Sections 631, 633 and 634 of the Uniform Mechanical Code.			
Controls			
☐ §122(a) Each space conditioning system shall be installed with one of the following:			
☒ §122(a)1A Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for schedules for weekdays and weekends; incorporate an automatic holiday "shut-off" feature that turns off all loads for at least 24 hours, then resumes that normally scheduled operation; and has program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or			
☐ §122(a)1B An occupancy sensor to control the operating period of the system; or			
☐ §122(a)1C A 4-hour timer that can be manually operated to control the operating period of the system.			
☒ §122(a)2 Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and / or a setup cooling thermostat setpoint.			
☐ §122(a) Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.			
☒ §122(a)2b Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.			
☒ §122(c) Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.			
☐ §122(b) Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.			

MECHANICAL MANDATORY MEASURES		Part 2 of 2	MECH-MM
PROJECT NAME KCEOC Shafter Gym	DATE 1/25/2002		
DESCRIPTION	Designer	Enforcement	
Ventilation			
☒ §121(a) Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.			
☒ §122(f) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.			
☐ §122(f) All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.			
☐ §121(f)1 Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1989); or			
☐ §121(f)2 Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical contractor and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or			
☐ §121(f)3 Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display device; or			
☐ §121(f)4 Another method approved by the Commission.			
Service Water Heating Systems			
☐ §13(b)2 If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.			
☒ §13(b)3B Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F.			
☒ §13(b)3C Lavatories in restrooms of public facilities shall be equipped with one of the following: Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute. Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. Proximity sensor actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons / cycle (circulating system). Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons / cycle (non-circulating system). Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.75 gallons / cycle (foot switches and proximity sensor controls).			

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376

LICENSED ARCHITECT
KEN SORENSON
NO. C7290
11-30-03
KEN DATE
STATE OF CALIFORNIA

Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE
GYMNASIUM AND
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BUILDING

EUCLID AVENUE
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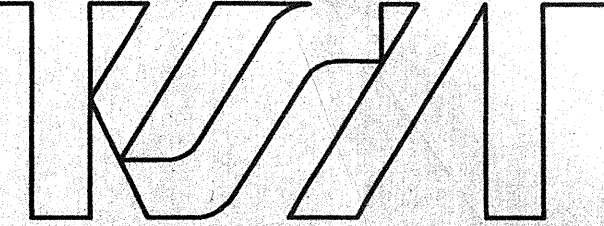
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No.	Description	Date
Revisions		
T-24 SHEETS		
Scale:	Job No:	Sheet No:
	2447.01	
Date:		
8/12/02	M4 of 4 sheets	

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASSETT
No. M26576
Exp. 9-30-02
MECHANICAL
STATE OF CALIFORNIA

MDC MECHANICAL DESIGN CONCEPTS
428 Truxtun Avenue Bakersfield, Ca. 93301
Tel #: (661) 326-1313 Fax #: (661) 326-1089
#02044 PLOTTED: 8-12-02



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

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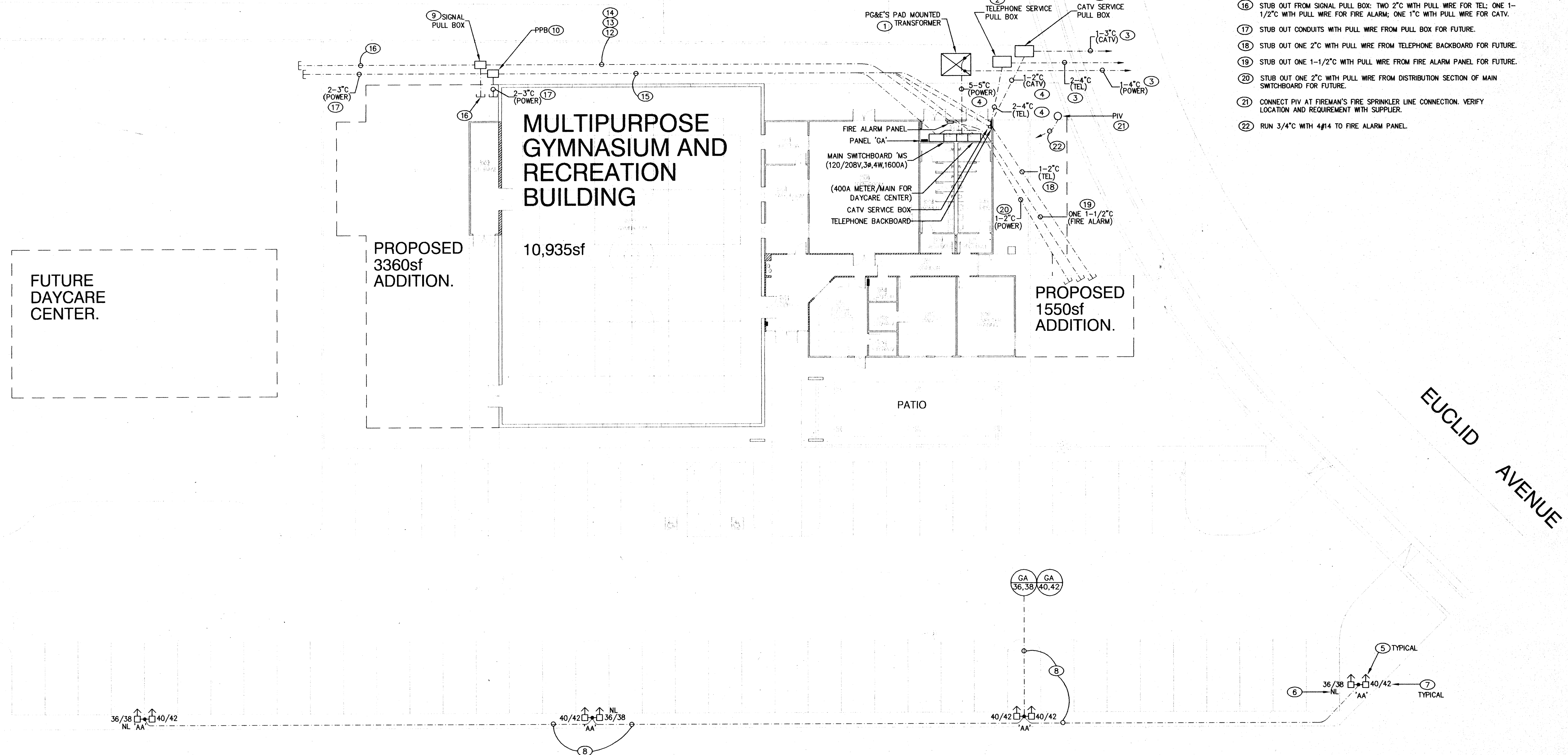
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SITE ELECTRICAL PLAN NOTES:

- ① UTILITY COMPANY'S TRANSFORMER PAD AND BARRIER POSTS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, PER SERVING UTILITY COMPANY'S REQUIREMENT. VERIFY LOCATION AND REQUIREMENT PRIOR TO STARTING WORK.
- ② TELEPHONE SERVICE PULL BOX SHALL BE PROVIDED BY ELECTRICAL PER SERVING TELEPHONE COMPANY'S REQUIREMENT.
- ③ RUN SERVICE CONDUITS TO SERVICE FACILITIES AS DIRECTED BY SERVING UTILITY COMPANIES. VERIFY WORK REQUIRED PRIOR TO STARTING WORK.
- ④ PROVIDE SERVICE CONDUITS AS DIRECTED BY SERVING UTILITY COMPANY.
- ⑤ TYPICAL OF ALL PARKING LOT LIGHTS: FIXTURES SHALL HAVE ROTATABLE OPTICS. ARROWS WHERE SHOWN, DENOTES ORIENTATION OF FIXTURE'S OPTICS.
- ⑥ TYPICAL: EXTERIOR NIGHT LIGHTS. WIRE FOR PHOTOCELL ON, PHOTOCELL OFF.
- ⑦ TYPICAL: EXTERIOR LIGHTS NOT DESIGNATED AS NIGHT LIGHTS SHALL BE WIRED FOR PHOTOCELL ON, TIMECLOCK OFF.
- ⑧ 1" C - 4#10 + 1#10 GND.
- ⑨ SIGNAL PULL BOX SHALL BE CHRISTY #N36, 17" X 30" X 24"D WITH CONCRETE COVER WITH HOLD DOWN BOLTS. PROVIDE "SIGNAL" ETCHED ON COVER.
- ⑩ POWER PULL BOX SHALL BE CHRISTY #N36, 17" X 30" X 24"D WITH CONCRETE COVER WITH HOLD DOWN BOLTS. PROVIDE "POWER" ETCHED ON COVER.
- ⑪ CATV SERVICE PULL BOX SHALL BE PROVIDED BY ELECTRICAL PER SERVING CABLE COMPANY'S REQUIREMENT.
- ⑫ RUN ONE 1-1/2" C WITH PULL WIRE BETWEEN CATV SERVICE BOX AND SIGNAL PULL BOX.
- ⑬ RUN FOUR 2" C WITH PULL WIRE BETWEEN TELEPHONE BACKBOARD AND SIGNAL PULL BOX.
- ⑭ RUN TWO 1-1/2" C WITH PULL WIRE BETWEEN FIRE ALARM PANEL AND SIGNAL PULL BOX.
- ⑮ RUN TWO 3" C WITH PULL WIRE BETWEEN 400A METER/MAN AND POWER PULL BOX. RUN TWO 3" C WITH PULL WIRE BETWEEN DISTRIBUTION SECTION OF MAIN SWITCHBOARD AND POWER PULL BOX.
- ⑯ STUB OUT FROM SIGNAL PULL BOX: TWO 2" C WITH PULL WIRE FOR TEL ONE 1-1/2" C WITH PULL WIRE FOR FIRE ALARM; ONE 1" C WITH PULL WIRE FOR CATV.
- ⑰ STUB OUT CONDUITS WITH PULL WIRE FROM PULL BOX FOR FUTURE.
- ⑱ STUB OUT ONE 2" C WITH PULL WIRE FROM TELEPHONE BACKBOARD FOR FUTURE.
- ⑲ STUB OUT ONE 1-1/2" C WITH PULL WIRE FROM FIRE ALARM PANEL FOR FUTURE.
- ⑳ STUB OUT ONE 2" C WITH PULL WIRE FROM DISTRIBUTION SECTION OF MAIN SWITCHBOARD FOR FUTURE.
- ㉑ CONNECT PIV AT FIREMAN'S FIRE SPRINKLER LINE CONNECTION. VERIFY LOCATION AND REQUIREMENT WITH SUPPLIER.
- ㉒ RUN 3/4" C WITH 4#14 TO FIRE ALARM PANEL.

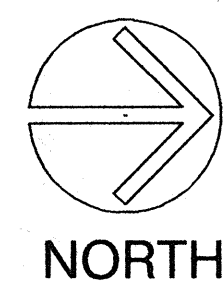
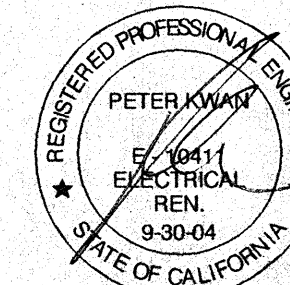


No.	Description	Date

SITE ELECTRICAL PLAN

Scale: 1/16" = 1'-0"

Job No: 2447.01
Date: 8/12/02
Sheet No: E1
of 6 sheets



LICENSED ARCHITECT
 KEN SORENSON
 NO. C7290
 11-30-03
 REN. DATE
 STATE OF CALIFORNIA

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No.	Description	Date
Revisions		

Scale: $1/8" = 1'-0"$

2447.01	
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E2
6 she

6 sheets



1 LIGHTING CONTROL CABINET #A SHALL BE MICROUTE #600M LOW VOLTAGE LIGHTING CONTROL RELAY PANEL, COMPLETE WITH #600 SERIES TIME-OF-DAY AND MATRIX PROGRAMMABLE TIMECLOCK, INTEGRAL POWER SUPPLY, PILOT LIGHTS, KEYS, MECHANICAL STOP, AND HIGH/LOW POSITION SELECTOR. THE LIGHTING CONTROL WIRING PANEL SHALL HAVE CAPABILITY FOR PHOTOCELL AND MANUAL OVERRIDE INPUTS, PROGRAM MANUAL OVERRIDE TO MAXIMUM OF 2-HOURS. PANEL SHALL BE PROGRAMMED TO "BLINK" LIGHTS IN OVERRIDE AREAS 15-MINUTE TO TURNING OFF LIGHTS. PANEL SHALL COMPLY WITH CALIFORNIA ENERGY COMMISSION TITLE 24 REQUIREMENT. CABINET SHALL BE SURFACE MOUNTED ON WALL. PROVIDE IN CONTROL CABINET:

THREE (3) MICROLITE #3000PL 20A RATED SPST MECHANICALLY HELD LATCHING
LOW VOLTAGE RELAY. WIRE TO CONTROL INTERIOR LIGHTING CIRCUITS
#GA/4,6,8. PROGRAM RELAYS' CONTROL FOR TIMECLOCK ON, TIMECLOCK OFF.

THREE (3) MICROLITE #3000PL 20A RATED SPST MECHANICALLY HELD LATCHING
LOW VOLTAGE RELAY. WIRE TO CONTROL EXTERIOR LIGHTING CIRCUITS
#GA/16,36,38. PROGRAM RELAYS' CONTROL FOR PHOTOCELL ON, PHOTOCELL OFF.

THREE (3) MICROLITE #3000PL 20A RATED SPST MECHANICALLY HELD LATCHING
LOW VOLTAGE RELAY. WIRE TO CONTROL EXTERIOR LIGHTING CIRCUITS
#GA/18,40,42. PROGRAM RELAYS' CONTROL FOR PHOTOCELL ON, TIMECLOCK OFF.

RUN 1-1/4" C FROM CONTROL CABINET TO PANEL 'GA' WITH WIRING FOR CONTROL OF LIGHTING CIRCUITS.

② LIGHTING CONTROL CABINET #B SHALL BE 18"W X 24"H X 6"D WITH HINGED DOOR. CABINET SHALL BE FLUSH MOUNTED IN WALL. PROVIDE IN CONTROL CABINET:

TEN (10) MICROLITE #3000PL 20A RATED SPST MECHANICALLY HELD LATCHING LOW VOLTAGE RELAY. WIRE TO CONTROL INTERIOR LIGHTING CIRCUITS
#6A/1,3,5,7,9,11,13,15,17,19. PROGRAM RELAYS' CONTROL FOR TIMECLOCK ON, TIMECLOCK OFF.

ONE (1) MICROLITE #3000PL 20A RATED SPST MECHANICALLY HELD LATCHING LOW VOLTAGE RELAY. WIRE TO CONTROL EXTERIOR LIGHTING CIRCUITS #GA/10. PROGRAM RELAYS' CONTROL FOR PHOTOCCELL ON, PHOTOCCELL OFF.

ONE(1) MICROLITE #3000PL 20A RATED SPST MECHANICALLY HELD LATCHING LOW VOLTAGE RELAY. WIRE TO CONTROL EXTERIOR LIGHTING CIRCUITS #GA/12. PROGRAM RELAYS' CONTROL FOR PHOTOCCELL ON, TIMECLOCK OFF.

RUN TO LIGHTING CONTROL CABINET #GA: ONE 1-1/2" C WITH 15#14 FOR
CONTROL OF LIGHTING CONTACTORS, 4#14 FOR BYPASS SWITCH + 1" C SPARE.

③ PROVIDE PHOTOCELL ON ROOF. PHOTOCELL SHALL BE MICROLITE #MLLC8 PHOTOCONTROLLER WITH OUTDOOR SENSOR HEAD. LOCATE ON ROOF AS DIRECTED BY ARCHITECT. RUN 1/2" C - 2#18 SHIELDED TO LIGHTING CONTROL CABINET #A.

④ PROVIDE BYPASS SWITCH #A FOR MANUAL BYPASS OF INTERIOR LIGHTING CONTROL. MANUAL OVERRIDE SWITCH WITH PILOT LIGHT SHALL BE AS MANUFACTURED BY MICROLITE. PROGRAM SWITCH TO PROVIDE MANUAL OVERRIDE CONTROL FOR RELAYS CONTROLLING PANEL 'GA' LIGHTING CIRCUITS #4,6,8. RUN 3/4" C WITH 4#14 TO LIGHTING CONTROL CABINET #GA. LABEL SWITCH AS DIRECTED BY OWNER.

5) PROVIDE BYPASS SWITCH #B FOR MANUAL BYPASS OF INTERIOR LIGHTING CONTROL. MANUAL OVERRIDE SWITCH WITH PILOT LIGHT SHALL BE AS MANUFACTURED BY MICROLITE. PROGRAM SWITCH TO PROVIDE MANUAL OVERRIDE CONTROL FOR RELAYS CONTROLLING PANEL 'GA' LIGHTING CIRCUITS #1,3,5,7,9,11,13,15,17,19. RUN 3/4" WITH 4#14, VIA LIGHTING CONTROL CABINET #B, TO LIGHTING CONTROL CABINET #A. LABEL SWITCH AS DIRECTED BY OWNER.

⑥ PROVIDE IN LIGHTING CONTROL CABINET AN ADDITIONAL THREE 20A/4P MECHANICALLY HELD LIGHTING CONTACTORS. ONE CONTACTOR TO CONTROL LIGHTING CIRCUITS #GA/1,19. ONE CONTACTOR TO CONTROL LIGHTING CIRCUITS #GA/3,5,11,13. ONE CONTACTOR TO CONTROL LIGHTING CIRCUITS #GA/7,9,15,17.

⑦ PROVIDE MOMENTARY SWITCHES "a", "b" AND "c" TO CONTROL THE MECHANICALLY HELD LIGHTING CONTACTORS. ONE SWITCH FOR ONE CONTACTOR

⑧ 1" C - 9#12 TO LIGHTING CONTROL CABINET #B FOR CONTROL OF CONTACTORS.

⑨ TYPICAL: DENOTES EMERGENCY EXIT SIGN WITH BATTERY PACK. MOUNT ON CEILING OR ON WALL ABOVE DOOR AS INDICATED. PROVIDE DIRECTIONAL ARROWS IF INDICATED.

(10) TYPICAL: DENOTES EMERGENCY BATTERY PACK WITH TWIN HEADS. MOUNT ON WALL AND AIM AS DIRECTED BY OWNER.

⑪ TYPICAL: DENOTES EMERGENCY EXIT SIGN WITH BATTERY PACK AND TWIN HEADS. MOUNT ON CEILING OR ON WALL ABOVE DOOR AS INDICATED. PROVIDE DIRECTIONAL ARROWS IF INDICATED.

(12) TYPICAL: DENOTES TWO 3-LAMP FIXTURES TANDEM-WIRED.

⑬ TYPICAL OF ALL 3-LAMP FIXTURES: CONNECT ALL OUTER 2-LAMPS AND INNER 1-LAMPS ON SEPARATE SWITCHES AS INDICATED.

⑭ TYPICAL: DENOTES FIXTURE WITH EMERGENCY BATTERY PACK. TO BE CONNECTED AS INTERIOR NIGHT LIGHT TO REMAIN ON AT ALL TIMES.

⑮ MOUNT LIGHT FIXTURES ON WALL AT CEILING.

①⑥ TYPICAL: EXTERIOR NIGHT LIGHTS. WIRE FOR PHOTOCELL ON, PHOTOCELL OFF.

(17) TYPICAL: EXTERIOR LIGHTS NOT DESIGNATED AS NIGHT LIGHTS SHALL BE WIRED FOR PHOTOCCELL ON, TIMECLOCK OFF.

(18) TYPICAL: SURFACE MOUNT TYPE 'R' FIXTURES IN COVERED PATIO. VERIFY LOCATION AND MOUNTING REQUIREMENT WITH ARCHITECT.

①9 TYPICAL: PROVIDE WP JUNCTION BOX AT POST FOR POWER FEED TO COVERED PATIO LIGHTS.

(20) TYPICAL OF METAL HALIDE FIXTURES IN GYMNASIUM: PENDANT MOUNT WITH BOTTOM OF FIXTURE AT 26-FT ABOVE FINISHED FLOOR OR AS DIRECTED BY OWNER.

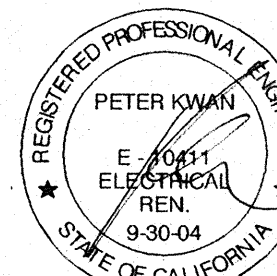
(21) TYPICAL: DENOTES FIXTURE WITH QUARTZ RESTRIKE.

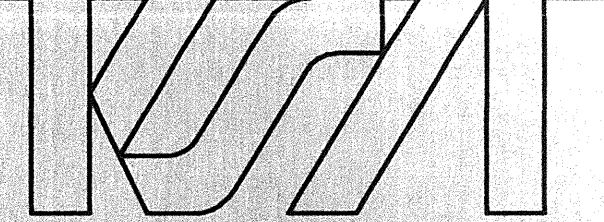
22) TYPICAL AT FIRE RATED CORRIDOR: WHERE LIGHT FIXTURES, CONDUIT, CABINETS, OR BOXES PENETRATE FIRE RATED CEILINGS, WALLS OR FLOORS PROVIDE A FIRE RATED ENCLOSURE AND/OR FIRE STOP. RATING OF ENCLOSURE AND/OR FIRE STOP SHALL MATCH OR EXCEED RATING OF AREA PENETRATED. VERIFY LOCATION OF FIRE RATED AREAS WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR. SUBMIT METHOD OF FIRE STOPPING TO BUILDING INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.

ELECTRICAL BOXES (MAXIMUM 16 SQUARE INCHES) INSTALLED IN OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY MINIMUM 24" HORIZONTALLY.

②③ 3/4"C - 3#10 + 1#10 GND.

②④ 1°C - 7#10 + 1#10 GND.





4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING

EUCLID AVENUE
SHAFTER, CA.

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No.	Description	Date

POWER & SIGNAL PLAN

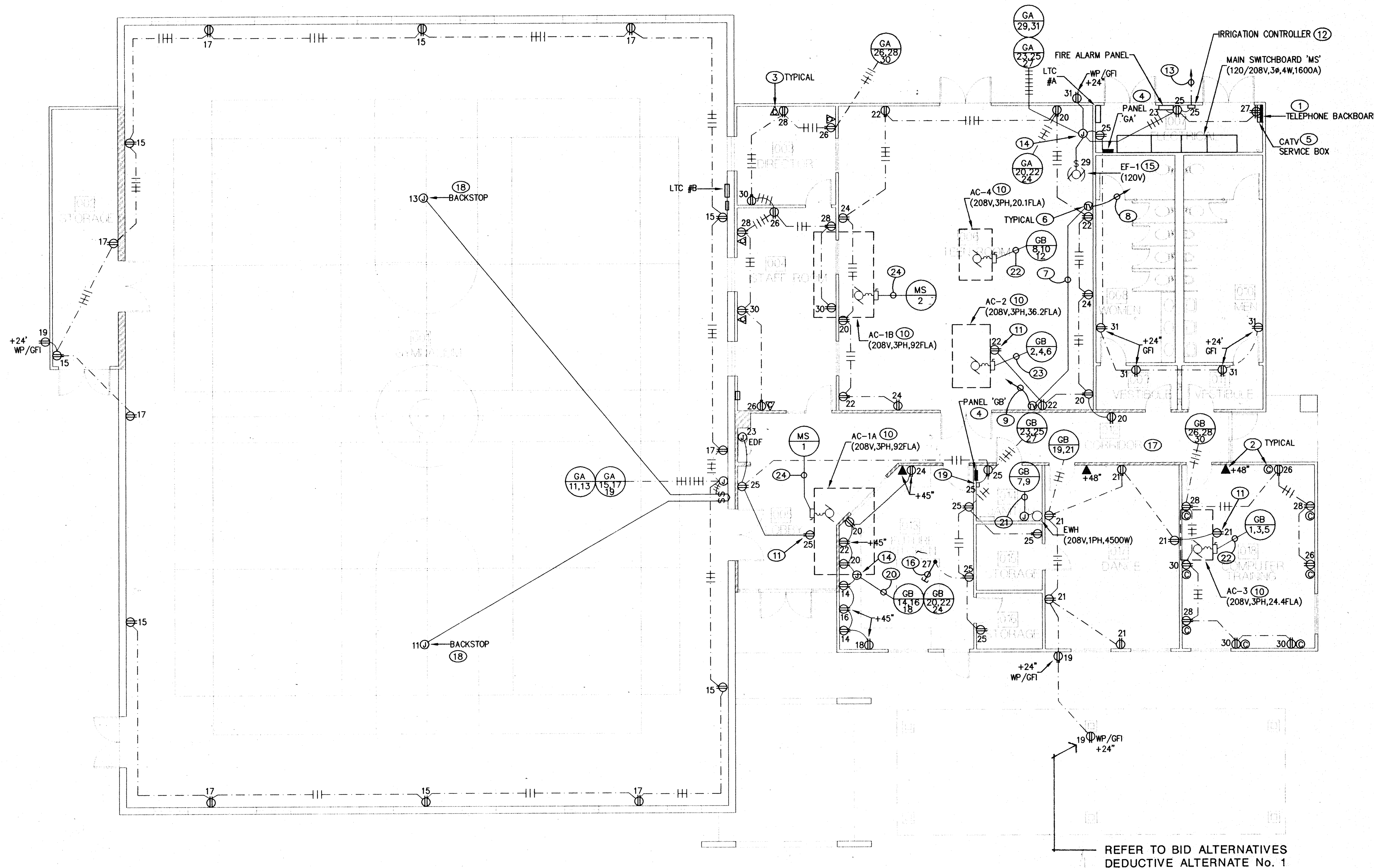
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Job No: 2447.01
Date: 8/12/2002

Sheet No:

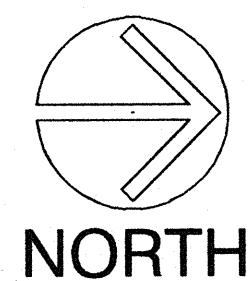
E3

of 6 sheets

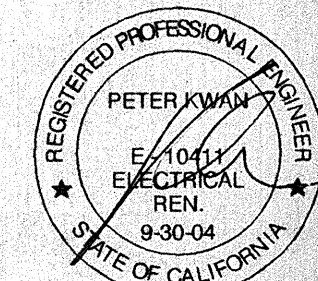


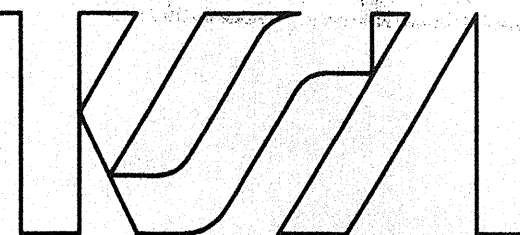
POWER & SIGNAL PLAN NOTES:

- TEL BACKBOARD SHALL BE 2 x 8 x 3/4" PLYWOOD BACKBOARD. MOUNT RECEPTACLE ON BACKBOARD. RUN 1/2" WITH 1#6 GROUND TO UFER GROUND AT BUILDING ELECTRICAL SERVICE EQUIPMENT. RUN TWO 2" UP INTO ATTIC FOR RUNNING OF TEL CABLES.
 - TYPICAL OF ALL TEL AND COMPUTER OUTLETS: PROVIDE 4S BOX WITH 1-GANG RING AND BLANK PLATE IN WALL. CABLES, JACKS AND PLATES SHALL BE PROVIDED BY TENANT. RUN ONE 3/4" WITH PULL WIRE UP INTO ACCESSIBLE ATTIC.
 - TYPICAL OF ALL COMBINATION TEL/COMPUTER OUTLETS: PROVIDE 4S BOX WITH 1-GANG RING AND BLANK PLATE IN WALL. CABLES, JACKS AND PLATES SHALL BE PROVIDED BY TENANT. RUN ONE 1" WITH PULL WIRE UP INTO ACCESSIBLE ATTIC.
 - STUB ONE 1-1/4" WITH PULL WIRE FROM EACH PANEL UP INTO ACCESSIBLE ATTIC.
 - PROVIDE CATV SERVICE BOX AS DIRECTED BY SERVING UTILITY COMPANY. MOUNT ON BOTTOM CORNER OF TEL BACKBOARD. RUN 1" UP INTO ACCESSIBLE ATTIC.
 - TYPICAL OF TV OUTLETS: PROVIDE 4S BOX IN WALL WITH ONE COAX JACK WITH MATCHING PLATE. PROVIDE TWO WAY SPLITTER IN BOX. RUN ONE 1" INTO ATTIC WITH TWO COAX CABLES.
 - ONE COAX CABLE IN ATTIC.
 - ONE COAX CABLE TO CATV SERVICE BOX.
 - RUN ONE COAX CABLE THROUGH ROOF IN ONE 1" WITH SERVICE WEATHERHEAD. AT LOCATION AS DIRECTED BY ARCHITECT FOR ROOF ANTENNA TO BE PROVIDED BY OWNER.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE POWER AND CONTROL CONDUITS, WIRING AND CONNECTION FOR HVAC EQUIPMENT AS DIRECTED BY MECHANICAL CONTRACTOR. VERIFY LOCATION AND CONNECTION REQUIREMENT PRIOR TO ROUGH-IN.
 - PROVIDE WEATHERPROOF/GFI RECEPTACLE ON ROOF. MOUNT ON HVAC UNIT HOUSING.
 - CONNECT IRRIGATION CONTROLLER. VERIFY LOCATION WITH ARCHITECT.
 - RUN ONE 1-1/4" WITH PULL WIRE FROM CONTROLLER OUT INTO LANDSCAPE AREA, AS DIRECTED BY ARCHITECT.
 - PROVIDE JUNCTION BOX IN ACCESSIBLE ATTIC.
 - REFER TO MECHANICAL DRAWINGS FOR INTERLOCK OF EXHAUST FAN WITH AC UNIT. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL CONDUITS, WIRING AND CONNECTION.
 - STUB OUT ONE 1/2" WITH 2#12 + 1#12 GND. CAP CONDUIT 6" ABOVE FINISH FLOOR.
 - TYPICAL AT FIRE RATED CORRIDOR: WHERE LIGHT FIXTURES, CONDUIT, CABINETS, OR BOXES PENETRATE FIRE RATED CEILINGS, WALLS OR FLOORS PROVIDE A FIRE RATED ENCLOSURE AND/OR FIRE STOP. RATING OF ENCLOSURE AND/OR FIRE STOP SHALL MATCH OR EXCEED RATING OF AREA PENETRATED. VERIFY LOCATION OF FIRE RATED AREAS WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR. SUBMIT METHOD OF FIRE STOPPING TO BUILDING INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.
- ELECTRICAL BOXES (MAXIMUM 16 SQUARE INCHES) INSTALLED IN OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY MINIMUM 24" HORIZONTALLY.
- CONNECT BACKSTOPS. PROVIDE TOGGLE SWITCHES ON WALL AS DISCONNECT. VERIFY CONNECTION LOCATION AND REQUIREMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
 - CONNECT AC UNIT TIME CLOCK. COORDINATE LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
 - 1" - 8#12 + 1#12 GND.
 - 3/4" - 2#10 + 1#10 GND.
 - 3/4" - 3#10 + 1#10 GND.
 - 1" - 3#6 + 1#10 GND.
 - 2" - 3#1/0 + 1#6 GND.

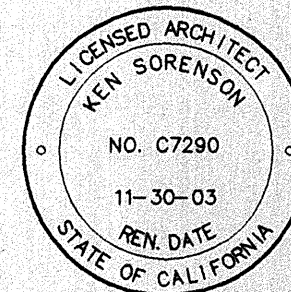


NORTH





4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
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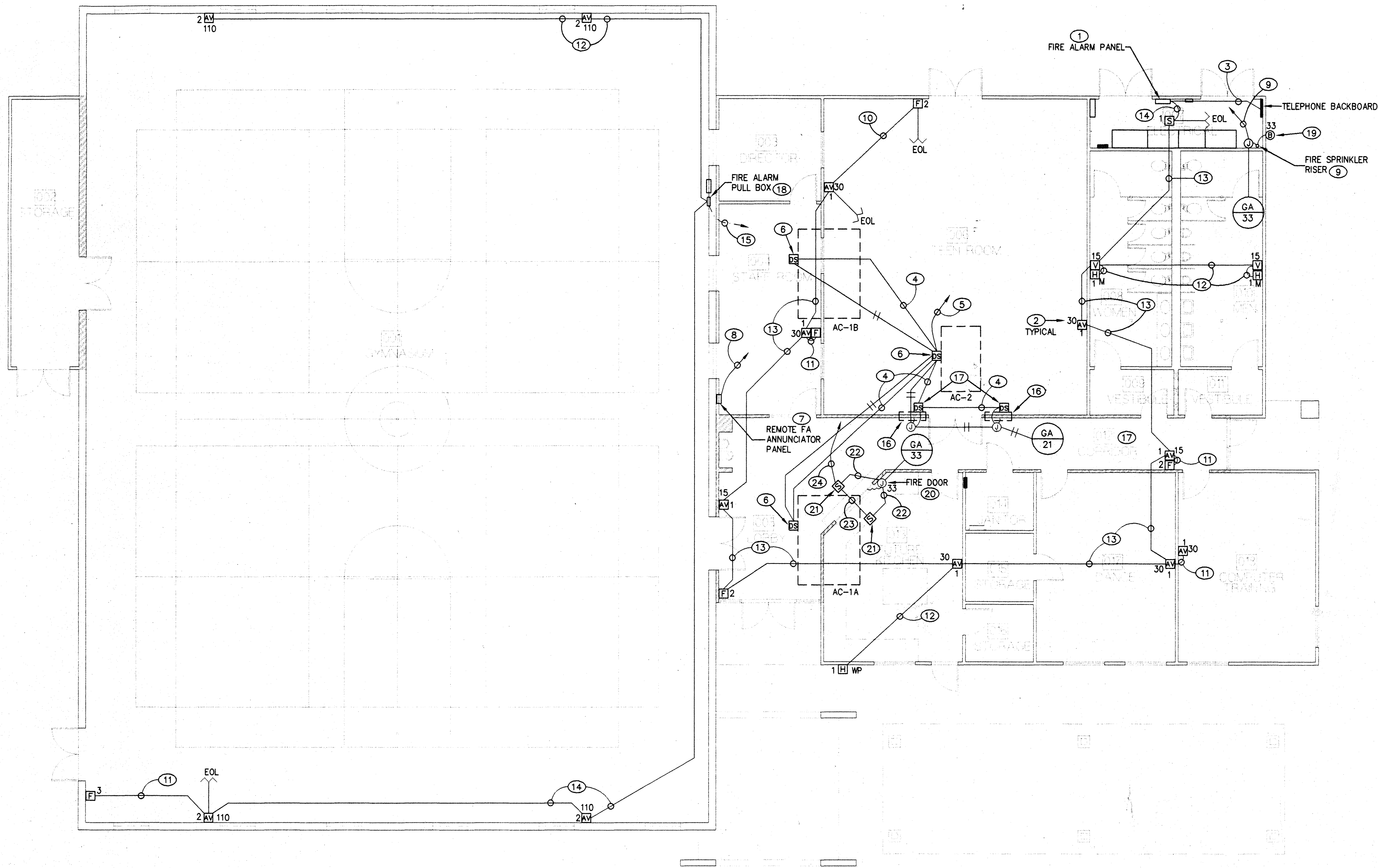
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No.	Description	Date

Revisions

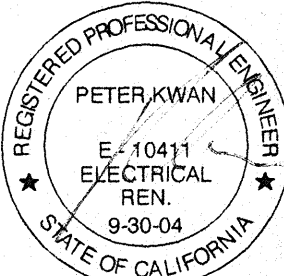
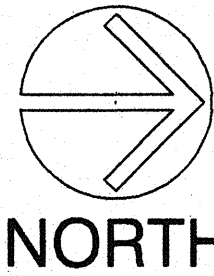
FIRE ALARM PLAN

Scale: 1/8" = 1'-0"
Job No: 2447.01 Sheet No:
Date: 8/12/2002
E4
of 6 sheets



FIRE ALARM PLAN NOTES:

- 1 PROVIDE FIRE ALARM PANEL. REFER TO SHEET E6 FOR SPECIFICATION.
 - 2 TYPICAL: DENOTES NAC CIRCUIT NUMBERS. REFER TO RISER DIAGRAM. "15", "30" DENOTE CANDELA RATING OF STROBE LIGHTS.
 - 3 RUN ONE 1" C WITH 4#14 FROM FIRE ALARM PANEL TO TEL BACKBOARD FOR CONNECTION TO REMOTE MONITORING PANEL. REMOTE MONITORING PANEL SHALL BE PROVIDED BY OWNER.
 - 4 RUN 3/4" C WITH 4#14 BETWEEN DUCT SMOKE DETECTORS.
 - 5 RUN 3/4" C WITH 4#14 TO FIRE ALARM PANEL.
 - 6 TYPICAL AT AC UNITS: 120V DUCT SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CONNECTION AS INDICATED.
 - 7 PROVIDE FIRE ALARM ANNUNCIATOR. ANNUNCIATOR SHALL HAVE SPACE FOR MINIMUM FOR FUTURE ZONES. FLUSH MOUNT IN WALL. VERIFY LOCATION WITH OWNER.
 - 8 RUN ONE 1-1/4" C WITH WIRING AS DIRECTED BY FIRE ALARM SYSTEM SUPPLIER FROM ANNUNCIATOR TO FIRE ALARM PANEL.
 - 9 CONNECT FIRE SPRINKLER RISER'S TAMPER SWITCH AND FLOW SWITCH. VERIFY CONNECTION LOCATION AND REQUIREMENT WITH SUPPLIER IN FIELD. RUN 3/4" C WITH 4#14 TO FIRE ALARM PANEL.
 - 10 1/2" C WITH 2#14.
 - 11 1/2" C WITH 4#14.
 - 12 3/4" C WITH 4#12.
 - 13 3/4" C WITH 2#12, 2#14.
 - 14 3/4" C WITH 2#12, 4#14.
 - 15 3/4" C WITH 2#12, 4#14 AND ONE 1" C SPARE WITH PULL WIRE TO FIRE ALARM PANEL.
 - 16 VERIFY CONNECTION LOCATION AND REQUIREMENT OF FIRE/SMOKE DAMPER WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 120V CONTROL AS INDICATED.
 - 17 TYPICAL AT FIRE RATED CORRIDOR: WHERE LIGHT FIXTURES, CONDUIT, CABINETS, OR BOXES PENETRATE FIRE RATED CEILINGS, WALLS OR FLOORS PROVIDE A FIRE RATED ENCLOSURE AND/OR FIRE STOP. RATING OF ENCLOSURE AND/OR FIRE STOP SHALL MATCH OR EXCEED RATING OF AREA PENETRATED. VERIFY LOCATION OF FIRE RATED AREAS WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR. SUBMIT METHOD OF FIRE STOPPING TO BUILDING INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.
- ELECTRICAL BOXES (MAXIMUM 16 SQUARE INCHES) INSTALLED IN OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY MINIMUM 24" HORIZONTALLY.
- 18 FIRE ALARM PULL BOX SHALL BE 12" X 12" X 4"D FLUSH MOUNTED IN WALL.
 - 19 CONNECT ELECTRIC BELL TO FLOW SWITCH AT FIRE SPRINKLER RISER. VERIFY LOCATION AND CONNECTION REQUIREMENT IN FIELD.
 - 20 VERIFY CONNECTION LOCATION AND REQUIREMENT OF FIRE DOOR WITH SUPPLIER PRIOR TO ROUGH-IN. PROVIDE 120V CONTROL AS INDICATED.
 - 21 SMOKE DETECTORS SHALL HAVE RELAY BASE FOR CONTROL OF FIRE DOOR.
 - 22 RUN 3/4" C WITH 2#12 FROM SMOKE DETECTOR RELAY BASE TO FIRE DOOR. VERIFY CONNECTION LOCATION AND REQUIREMENT WITH SUPPLIER.
 - 23 3/4" C WITH 6#14.
 - 24 RUN 3/4" C WITH 6#14 TO FIRE ALARM PANEL.



CERTIFICATE OF COMPLIANCE - Lighting		Part 1 of 3	LTG-1
PROJECT NAME A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING		DATE 08/12/02	
PROJECT ADDRESS EUCLOD AVENUE, SHAFTER, CA		Building Permit # _____	
PRINCIPAL DESIGNER - LIGHTING PETER KIWAN		TELEPHONE (559) 432-1147	
DOCUMENTATION AUTHOR PETER KIWAN		TELEPHONE (559) 432-1147	Checked by/Date Enforcement Agency Use
GENERAL INFORMATION			
DATE OF PLANS 08/12/02	BUILDING CONDITIONED FLOOR AREA 1,0911 SF.		CLIMATE ZONE
BUILDING TYPE ☒ NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL	☐ HOTEL/MOTEL GUEST ROOM		
PHASE OF CONSTRUCTION ☒ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION	☐ UNCONDITIONED		
METHOD OF LIGHTING COMPLIANCE ☒ COMPLETE BUILDING ☐ AREA CATEGORY	☐ PERFORMANCE		
STATEMENT OF COMPLIANCE			

This Certificate of Compliance lists the building features and performance specifications need to comply with Title 24, Part 6 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR PETER KWAN	SIGNATURE 	DATE 08/12/02
------------------------------------	--	------------------

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the envelope

Please check one:

☒ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer or I am a licensed architect.

☐ I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by section 5537.2 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☐ I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537.5538 and 6737.1

PRINCIPAL LIGHTING DESIGNER -- NAME PETER KWAN	SIGNATURE 	LIC. NO. E 10411	DATE 08/12/02
---	--	---------------------	------------------

LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures

INSTRUCTIONS TO APPLICANT
For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the

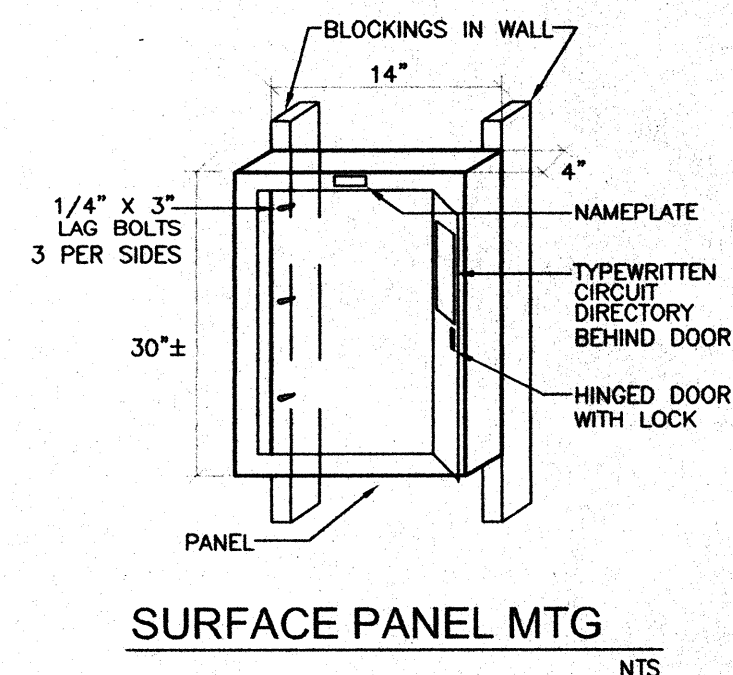
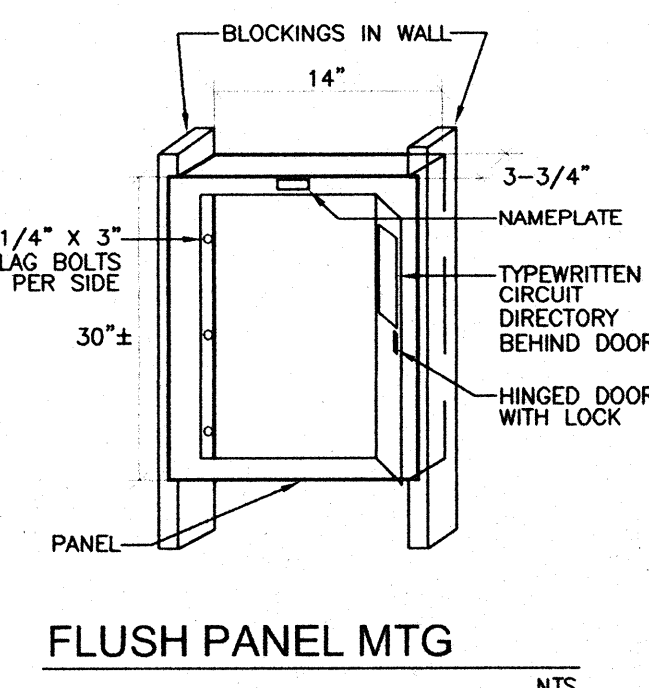
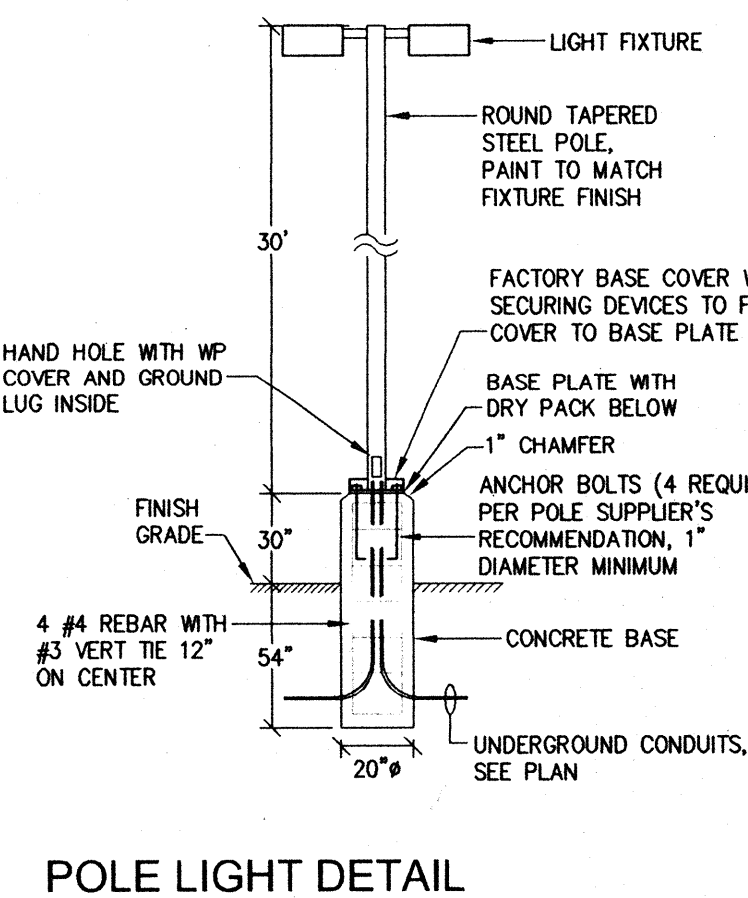
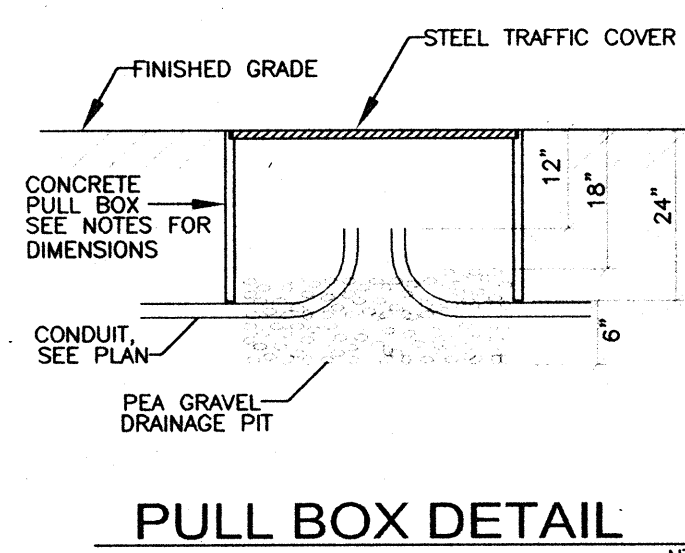
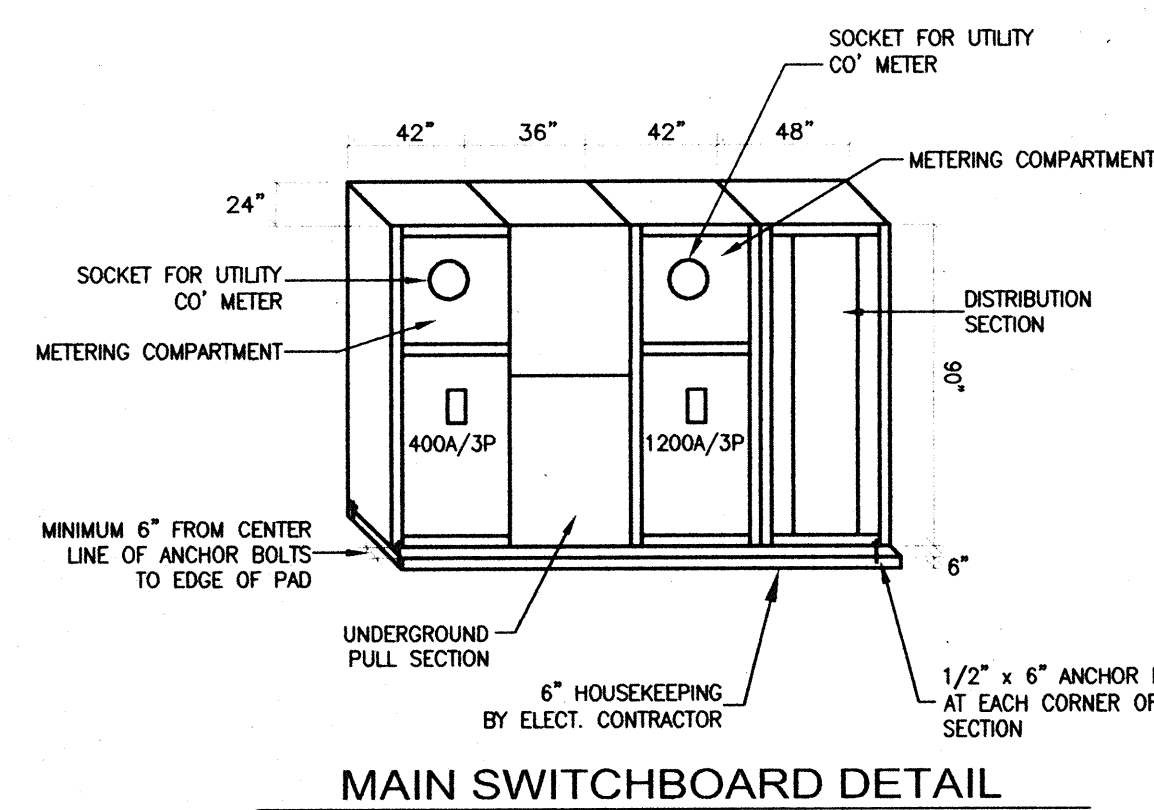
Nonresidential Manual published by the California Energy Commission.
 LTG-1: Required on plans for all submittals. Part 2 and 3 may be incorporated in schedules on plans.
 LTG-2: Required for all submittals.
 LTG-3: Optional. Use only if lighting control credits are taken.
 LTG-4: Optional. Part 2 and 3, and LTG-5 are optional if Tailored Method is used.

[illegible]

Lighting Schedule on Plans Shows Exterior Lighting Meets	BUILDING TOTAL
☐ Efficacy and Control Requirement of 130(c)	PORTABLE LIGHTING (From LTG-1 Part 3 of 3)
☐ Control Requirements of 130(f)	LESS CONTROL CREDIT WATTS (From LTG-3)

[illegible][illegible]

NOTES TO FIELD - For Building Department Use Only



LIGHTING COMPLIANCE SUMMARY					LGT-2	
PROJECT NAME				DATE		
A MULTI-PURPOSE GYMNASIUM AND RECREATION BUILDING				08/12/02		
ACTUAL LIGHTING POWER						
LUMINAIRE NAME	TYPE DESCRIPTION	NUMBER OF LUMINAIRES	WATTS PER LUMINAIRE (Including Ballast)	CEC DEFAULT W	TOTAL WATTS	
A,A1	2x4 2L FLOOR	7	62	☒ ☐	434	
B	2x4 3L FLOOR	1	94	☒ ☐	94	
C	2W0 2x4 3L FLOOR, TANDEM	14	176	☒ ☐	2464	
D	1x4 2L FLOOR	17	62	☒ ☐	1054	
E	4FT 2L FLOOR	4	62	☒ ☐	248	
F	8FT 2L FLOOR	2	114	☒ ☐	228	
G,G1	250MH HIGH BAY	8	295	☒ ☐	2360	
L	2F13 REC FLOOR	2	34	☒ ☐	68	
M,M1	400MH HIGH BAY	16	460	☒ ☐	7360	
				☐ ☐		
				☐ ☐		
				☐ ☐		
				☐ ☐		

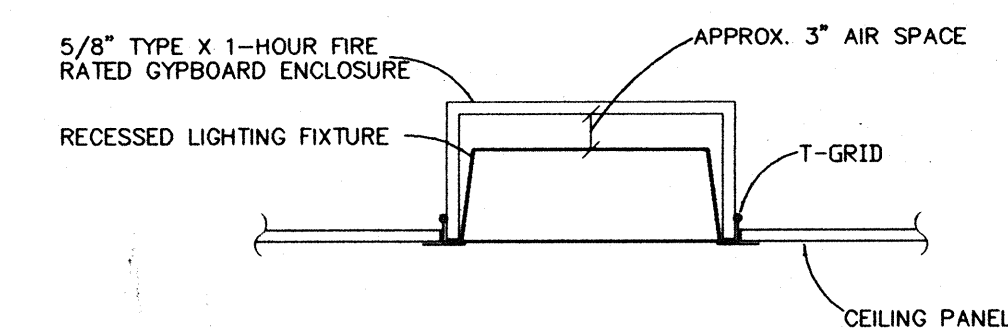
ALLOWED LIGHTING POWER (Choose One Method)			
COMPLETE BUILDING METHOD			
BUILDING CATEGORY (<i>From 146(b) Table 1-M</i>)	WATTS PER SF	COMPLETE BLDG. AREA	ALLOWED WATTS
EDUCATIONAL FACILITY	10911	1.4	15275
AREA CATEGORY METHOD			
AREA CATEGORY (<i>From 146(b) Table 1-N</i>)	WATTS PER SF	COMPLETE BLDG. AREA	ALLOWED WATTS
TOTAL		AREA	WATTS
TAILORED METHOD			
		TOTAL ALLOWED WATTS <i>(Sum 1-10)(A)</i>	

LIGHTING MANDATORY MEASURES NOTES:

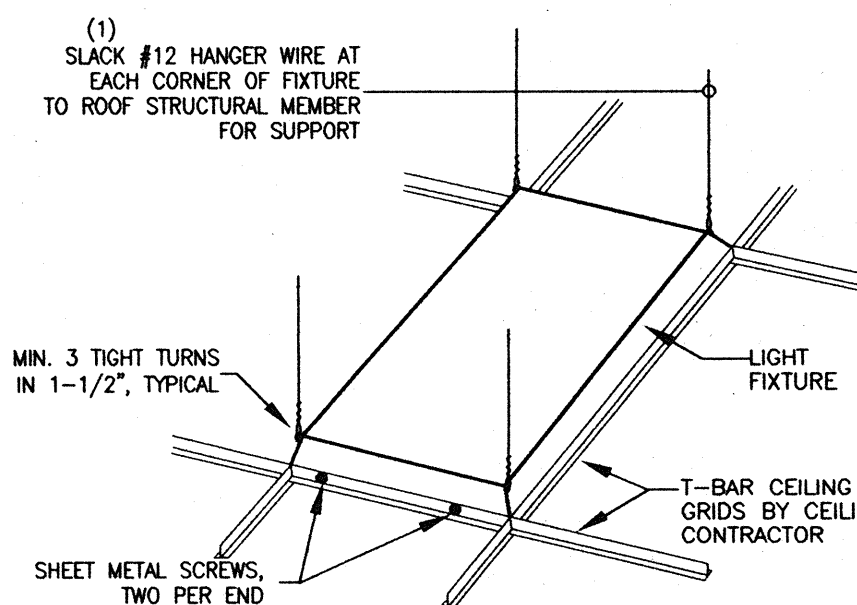
1. BUILDING LIGHTING SHUT-OFF:
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR.
2. OVERRIDE FOR BUILDING LIGHTING SHUT-OFF:
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS.
3. AUTOMATIC CONTROL DEVICES CERTIFIED:
ALL AUTOMATIC CONTROL DEVICES CERTIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
4. FLOURESCENT BALLAST AND LUMINARIES CERTIFIED:
ALL FLOURESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.
5. TANDEM WIRING FOR TWO-LAMP BALLASTS:
ALL ONE AND THREE LAMP FLOURESCENT FIXTURES AND TANDEM WIRED WITH TWO (2) LAMP BALLAST WHERE REQUIRED BY STANDARDS #132.
6. INDIVIDUAL ROOM/AREA CONTROLS:
EACH ROOM AND AREA IN THE BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.
7. UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 1800 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
8. DAY/LT AREA CONTROL:
ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAY/LT AREA CONTROLLED BY A SEPARATE SWITCH.
9. CONTROL OF EXTERIOR LIGHTS:
EXTERIOR MOUNTED FIXTURES AND SERVED FROM THE ELECTRICAL PANEL INSIDE THE BUILDING ARE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF.

FIXTURE SCHEDULE							
ALL FLUORESCENT BALLASTS TO BE ENERGY SAVING TYPES, U.O.N., CERTIFIED PER TITLE 24, SECTION 2-5314(g) ALL FLUORESCENT LAMPS TO BE ENERGY SAVING TYPES, U.O.N., CERTIFIED PER TITLE 24, SECTION 2-5315(g)							
TYPE	WATT	LAMP	VOLT	MANUFACTURER	CATALOG No.	MTG	NOTES
A	62	2F32 TBRK	120	COLUMBIA	J24-2320-FSA12-E8B	REC	
A1					J24-2320-FSA12-E8B-EL		WITH EMERGENCY BATTERY
B	94	3F32 TBRK			J24-3320-FSA12-21EBB		
C	176	6F32 TBRK			J24-3320-FSA12-24EBB-MS9		
D	62	2F32 TBRK			AWM4-232-E8B	SURF	
E				NAUTE	BW-232-OCT 2-LAMP DOWNLIGHT	WALL	
F	114	4F32 TBRK		COLUMBIA	CS8-232-4EBB-CSWG8	SURF	
G	295	250W MH		HUBBELL	BL-250HX-WA-WH	PEND	
G1		250MH T50cd			BL-250HX-WA-WH-QSS		
H	2	INCL		PRESCOUTE	PEX-1-L-R-EN-W	WALL CLG	
J	40				EDS2-SBWG-2P	WALL	PROVIDE WIRE GUARD.
K	42				PDXL-1-R-EC-CB-W-41PWC-W		(1) ↓
L	34	2F13 QT			PBX-T094S	REC	
M	460	400W MH		HUBBELL	BL-400WX-WA-WH	PEND	
M1		400MH T50cd			BL-400WX-WA-WH-QSS		
N	115	100W MH		KIM	W01403-100MH120-AF	WALL	FINISH PER ARCHITECT
P	295	250W MH			W018D3-250MH120-AF		↓
R	56	2F28 TT		HUBBELL	NRG-456	CLG	
S	50	2F18 QT		PRESCOUTE	CFR81BUEB-WTQ2F	SURF	
AA	920	2/400W MH	208	KIM	ZB-AR3-400SMH208-30KTP-AF	POLE	FINISH PER ARCHITECT

(1) EMERGENCY LIGHTING REQUIRES 40-WATTS OF POWER. EMERGENCY EXIT SIGN REQUIRES 2-WATTS OF POWER AND THEREFORE DOES NOT NEED TO BE INCLUDED IN TITLE 24 CALCULATIONS.



FIRE RATED ENCLOSURE DETAIL
FOR RECESSED FIXTURE
(IN LAY-IN CEILINGS) NTS



RECESSED FIXTURE MOUNTING

(1) PROVIDE TWO HANGER WIRES AT OPPOSITE CORNERS FOR HEAVY DUTY RATED CEILING SYSTEM. PROVIDE FOUR HANGER WIRES, ONE AT EACH CORNER, FOR INTERMEDIATE RATED CEILING SYSTEM OR IF THE FIXTURE WEIGHS MORE THAN 56 POUNDS.

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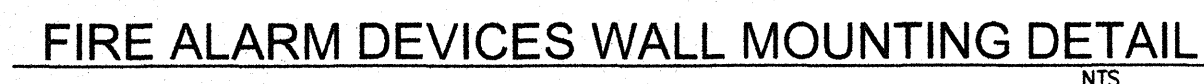
No.	Description	Date
Revisions		

SYMBOLS, DETAILS, TITLE 24,
FIXTURE SCHEDULE

Scale: As Noted

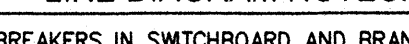
Job No: 2447.01	Sheet No: E5
Date: 8/12/02	of 6 sheets

E5
6 sheets



1. THE FIRE ALARM SYSTEM SHALL CONFORM TO CFC ARTICLE 14, ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE AND NFPA 72.
2. CONTRACTOR AND/OR DRAWINGS SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF SUPPLIES, SPECIFICATION AND CALCULATION AS REQUIRED BY THE LOCAL FIRE MARSHAL AND BUILDING DEPARTMENT FOR THEIR REVIEW AND APPROVAL. PLANS AND SPECIFICATIONS SHALL INCLUDE, BUT NOT LIMITED TO, A FLOOR PLAN WITH LOCATIONS OF INITIATION AND ALARM SIGNALING DEVICES, FIRE ALARM SYSTEM AND TROUBLE SIGNALING EQUIPMENT, ANNUNCIATION POWER CONNECTION; BATTERY CALCULATION; VOLTAGE DROP CALCULATION; MAKE, MODEL AND CALIFORNIA STATE FIRE MARSHAL LISTING SHEETS OF ALL DEVICES AND MATERIALS REQUIRING LISTING, AND WIRING OR CABLE TYPE AND SIZES.
3. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS FOR THE FIRE ALARM SYSTEM HAVE BEEN APPROVED BY THE LOCAL FIRE DEPARTMENT.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

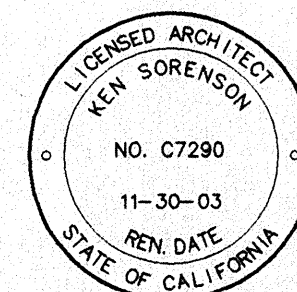
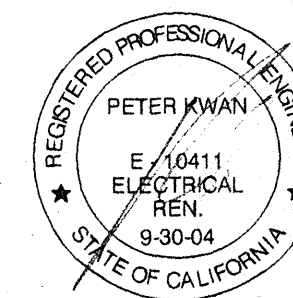
1. NEW FIRE ALARM SYSTEM IS A 24VDC SYSTEM WITH A 12 ZONE CABINET, WITH 12 INITIATION ZONES, EIGHT NAC SIGNAL CIRCUITS, 24VDC POWER SUPPLY, WITH MINIMUM 17.0 AH BATTERY SET WITH CHARGER. WIRING SHALL BE CLASS "B" POWER LIMITED. PANEL SHALL HAVE CITY MODULE FOR ALARM ANNUNCIATING TO REMOTE MONITORING FACILITY. FIRE ALARM PANEL SHALL BE AS MANUFACTURED BY FCI, SIMPLEX, NOTIFIER, PYROTRONICS, EDWARDS, OR APPROVED EQUAL.
2. MANUAL PULL STATION SHALL BE DUAL ACTION TYPE.
3. SMOKE DETECTOR SHALL BE PHOTOELECTRIC TYPE WITH BASE.
4. EXTERIOR HORNS: WHEELOCK #AH-24NP-R WITH #WBB-R WEATHERPROOF BACKBOX (CSFM #7125-0785.131).
5. MINI-HORNS: WHEELOCK #MIZ-TC24-R (CSFM #7135-0785.115)
6. COMBINATION HORN WITH 15CD STROBE: WHEELOCK #WS-24MCW-FR (CSFM #7125-0785.142)
7. COMBINATION HORN WITH 30CD STROBE: WHEELOCK #WS-24MCW-FR (CSFM #7125-0785.142)
8. COMBINATION HORN WITH 110CD STROBE: WHEELOCK #WS-24MCW-FR (CSFM #7125-0785.142)
9. 15CD STROBE: WHEELOCK #RSS-2415W-FR, 15CD TYPE (CSFM #7125-0785.141)



- 1 BREAKERS IN SWITCHBOARD AND BRANCH CIRCUIT PANELS SHALL HAVE SERIES INTEGRATED ARC RATING EXCEEDING MAXIMUM FAULT AVAILABLE AT SWITCHBOARD FROM UTILITY COMPANY'S TRANSFORMER. CONTRACTOR SHALL VERIFY WITH SERVING UTILITY COMPANY PRIOR TO FABRICATION OF SWITCHBOARD. MINIMUM ARC RATING SHALL BE AS INDICATED.
- 2 RUN 3/4" - 1 1/2" O.D. TUBES TO GROUNDING ELECTRODES: UPPER GROUND, AND WHERE AVAILABLE TO BUILDING STEEL AND METAL UNDERGROUND WATER PIPING IN DIRECT CONTACT WITH EARTH FOR 10-FT OR MORE. RUN 3/4" W/ 1 1/2" O.D. TUBES TO BOND INTERIOR METAL WATER PIPING, IF NOT ALREADY ELECTRICALLY CONNECTED TO THE METAL UNDERGROUND WATER PIPING; AND TO INTERIOR METAL GAS PIPING.
- 3 UPPER GROUND IS AN ELECTRODE ENCASED BY AT LEAST 2" OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20-FT OF BARE COPPER CONDUCTOR NOT SMALLER THAN #4.
- 3 MAIN SWITCHBOARD SHALL HAVE FULL HEIGHT BUSSING IN DISTRIBUTION SECTION WITH SPACE FOR MINIMUM TWO 400A/3P AND TWO 225A/3P BREAKERS.
- 4 2" - 3 1/4" O + 1 #6 GND.
- 5 2" - 4 1/2" O + 1 #6 GND.
- 6 STUB OUT ONE 2" TO FUTURE BUILDING ADDITION. REFER TO SHEET E1 FOR LOCATION.
- 7 STUB OUT ONE 3" TO FUTURE BUILDING ADDITION. REFER TO SHEET E1 FOR LOCATION.
- 8 STUB OUT TWO 3" FOR FUTURE DAYCARE CENTER. REFER TO SHEET E1 FOR LOCATION.

(1) LOCK-ON DEVICE

120/208		VOLTS		3 PHASE		4 WIRE		10K BREAKER A.I.C.	
200		A. BUSSING		NO		A. MAIN BREAKER		3-3/4" MAX. ENCL. DEPTH	
42		CIRCUIT						FLUSH MOUNTING	
PANEL				GB					
CIR NO.	BKR NO.	LOAD (VA)	DESCRIPTION	DESCRIPTION	LOAD (VA)	BKR NO.	CIR NO.		
	AMP	PHASE A	PHASE B		PHASE C	PHASE B	PHASE A	AMP	POLE
1	40			AC-3, 24.4FLA	AC-2, 36.2FLA		4344	3	
3		2928					4344		
5			2928				4344		
7	30			EMH	AC-4, 20.1FLA		2412	35	3
9	2	2250					2412	60	
11			2250				2412		
13	20		1000	BACKSTOP			2412	20	1
15		1000			RECEPTACLES-- KITCHEN		1000		
17		1080		RECEPTACLES-- GYM			1000		
19			1080				1000		
21		540		RECEPTACLES-- EXTERIOR			1000		2
23		720		RECEPTACLES-- DANCE			1000		
25			1000	EDF			1000		2
27		1080		RECEPTACLES-- STORAGE, JANITOR			360		
29		500		KITCHEN ISLAND			540		2
31				SPARE			540		3
33					SPARE				3
35									3
37									3
39									3
41									3
PHASE A = 16914		PHASE B = 16774		PHASE C = 15304		VA		VA	
TOTAL CONNECTED (48992		VA) + 25% LCL (		- VA) = 48992		VA (		136 AMP	



Ken Sorenson	AIA	C 7290
Derek Holdsworth	AIA	C 8675

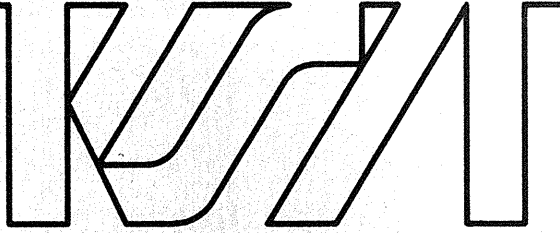
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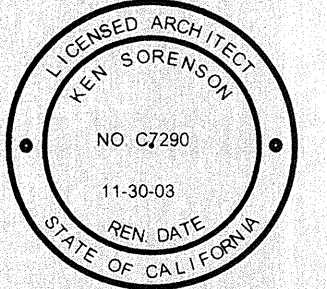
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(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

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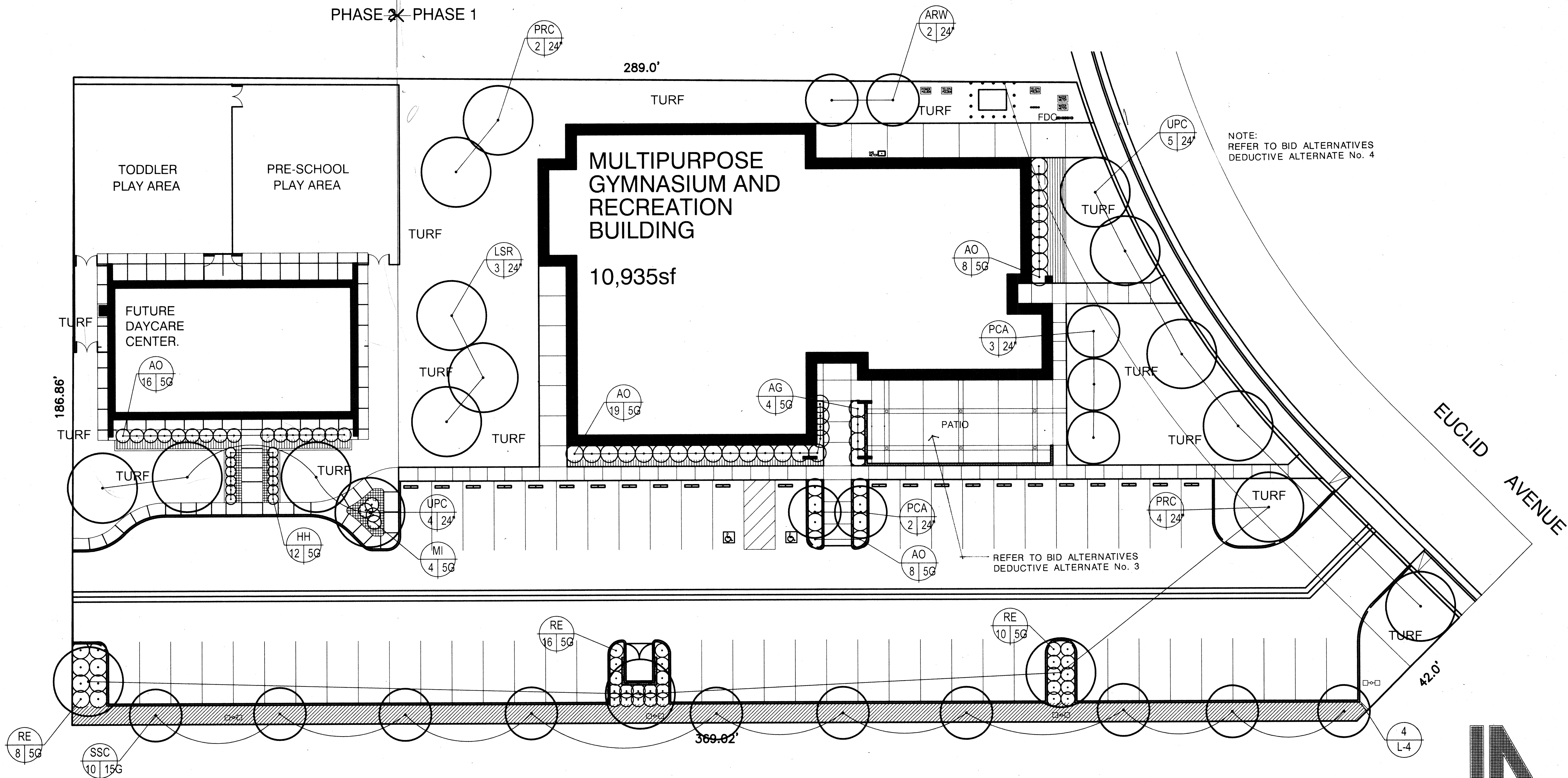
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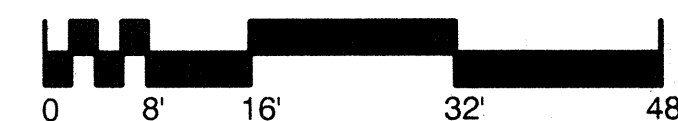
LANDSCAPE SITE PLAN

Scale:
Job No: (LA 2208.042)
Date: 08/15/02
Sheet No: L-1
1 of 4 sheets

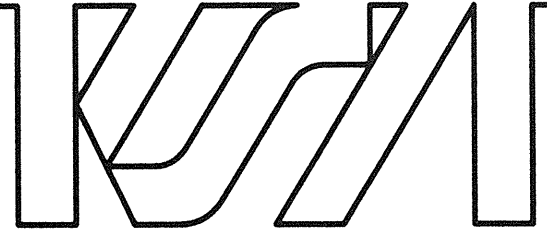


LANDSCAPE SITE PLAN

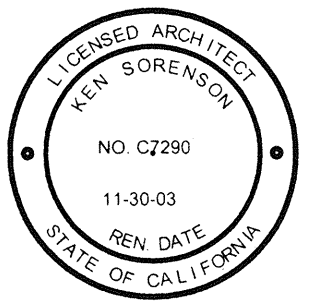
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Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

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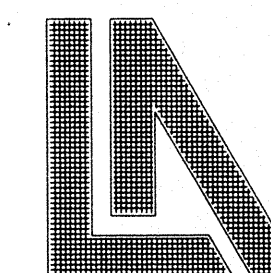
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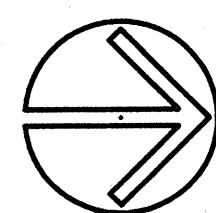
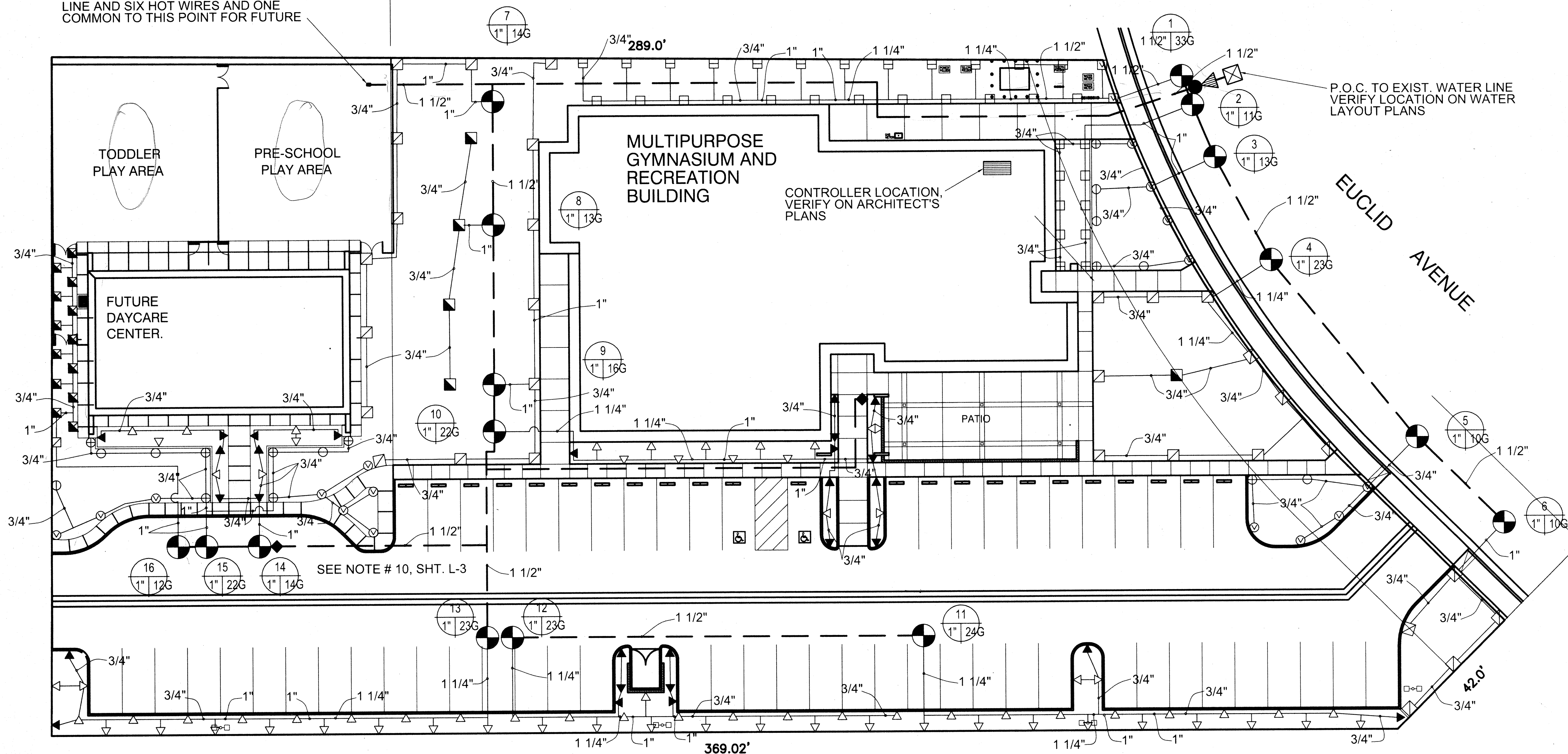
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CONTRACTOR SHALL EXTEND MAIN
LINE AND SIX HOT WIRES AND ONE
COMMON TO THIS POINT FOR FUTURE

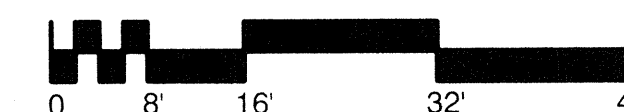
PHASE 2 PHASE 1



NORTH

IRRIGATION SITE PLAN

SCALE: 1/16" = 1'-0"



No.	Description	Date
Revisions		

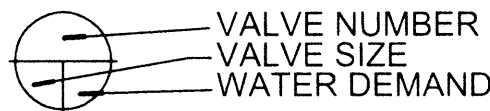
IRRIGATION SITE PLAN

Scale:
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(LA-2208.041)
Date:
08/15/02

Sheet No:

L-2
2 of 4 sheets

IRRIGATION SCHEDULE



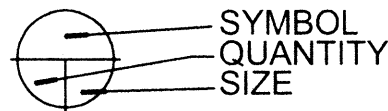
SYM	SIZE	MANUF.	MODEL NO.	PSI	COMMENTS
▼	END	RAINBIRD	1806/12-SAM-15EST	30	POP UP SPRAY SPRINKLERS - SEE NOTE #11, BELOW
▽	SIDE	RAINBIRD	1806/12-SAM-15SST	30	POP UP SPRAY SPRINKLERS - SEE NOTE #11 BELOW
⊞	1/4	RAINBIRD	1812-SAM-12Q	30	POP UP SPRAY SPRINKLERS
⊞	1/2	RAINBIRD	1812-SAM-12H	30	POP UP SPRAY SPRINKLERS
⊞	ADJ	RAINBIRD	1812-SAM-12VAN	30	POP UP SPRAY SPRINKLERS
⊞	1/4	RAINBIRD	1806-SAM-15Q	30	POP UP SPRAY SPRINKLERS
⊞	1/2	RAINBIRD	1806-SAM-15H	30	POP UP SPRAY SPRINKLERS
⊞	ADJ	RAINBIRD	1806-SAM-15VAN	30	POP UP SPRAY SPRINKLERS
⊞	1/2	RAINBIRD	1806-SAM-8H	30	POP UP SPRAY SPRINKLERS
⊞	PC	RAINBIRD	5004-PC-SAM-2.0	35	POP UP TURF ROTORS
⊞	FC	RAINBIRD	5004-PC-SAM-3.0	35	POP UP TURF ROTORS
⊞					
⊞	1", 1 1/2"	RAINBIRD	PEB SERIES	--	VALVES- INSTALL IN LOCKING BOXES, ONE VALVE PER BOX - SEE NOTE #7
⊞	1 1/2"	WILKINS	975 SERIES	--	BACKFLOW PREVENTOR
⊞		POINT OF CONNECTION - SEE PLANS FOR LOCATION			
⊞		RAINBIRD	ESP - 24MC	--	CONTROLLER - SEE PLAN FOR LOCATION
⊞		PACIFIC WESTERN	CL 200 PVC	--	LOW PRESSURE LATERAL LINE
⊞		PACIFIC WESTERN	SCH 40 PVC	--	HIGH PRESSURE MAIN LINE
◆	1"	RAINBIRD	44 LRC	--	QUICK COULPERS - SEE NOTE #7
●	1 1/2"	NIBCO	T-113 (IRRIGATION)	--	GATE VALVE - SEE NOTE #7

IRRIGATION NOTES

1. INSTALL MATERIALS AS CALLED OUT IN DETAILS AND AS PER SPECIFICATIONS.
2. THERE SHALL BE NO DELETIONS OR SUBSTITUTIONS W/O THE APPROVAL OF THE OWNER, THE ARCHITECT OR THE LANDSCAPE ARCHITECT.
3. ALL SPRINKLERS AND VALVES SHALL BE ADJUSTED FOR REQUIRED COVERAGE W/ MINIMUM OR NO OVERSPRAY. LANDSCAPE ARCHITECT SHALL HAVE FINAL APPROVAL.
4. COMPONENTS LOCATIONS ARE APPROXIMATE AND DIAGRAMATIC AS SHOWN.
5. ALL IRRIGATION RUNNING UNDER WALLS OR PAVING SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES. ALL SLEEVES SHALL BE MIN. 1" LARGER THAN IRRIGATION LINE.
6. ALL SYSTEMS DESIGNED FOR PERFORMANCE AT 30 & 35 PSI PRESSURE.
7. ALL IRRIGATION VALVES, QUICK COUPLER & GATE VALVES SHALL BE INSTALLED IN LOCKING PLASTIC VALVE BOXES, AMETEK OR EQUAL, ONE VALVE PER BOX. SEE DETAILS SHEET L-4 FOR INSTALLATION INFORMATION.
8. OWNER SHALL PROVIDE ELECTRICAL POWER TO THE CONTROLLER LOCATION. CONTROLLER LOCATION IS SHOWN DIAGRAMATICALLY. FINAL LOCATION SHALL BE DECIDED AT CONSTRUCTION. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL HOOK UP.
9. POINTS OF CONNECTION SHALL BE TO EXISTING WATER MAIN. SEE WATER LAYOUT PLANS AND PLUMBING PLANS FOR EXACT LOCATIONS.
10. LANDSCAPE CONTRACTOR SHALL PROVIDE ALL HOT WIRE AND COMMON WIRE FROM CONTROLLER TO PHASE LINE FOR VALVES 14, 15 & 16 LOCATION TO BE INSTALLED IN CHILD CARE PHASE. VERIFY WITH LANDSCAPE ARCHITECT FOR CLARIFICATION.
11. LANDSCAPE CONTRACTOR SHALL INSTALL 6" POP-UPS ON VALVES 11, 12 & 13. ALL OTHERS SHALL BE ON 12" POP-UPS. VERIFY WITH LANDSCAPE ARCHITECT FOR CLARIFICATION.

NOTE: REFER TO BID ALTERNATIVES DEDUCTIVE ALTERNATE No. 4

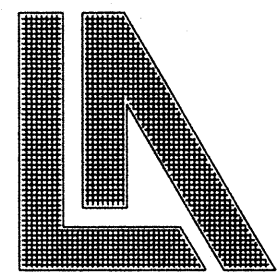
LANDSCAPE SCHEDULE



SYM	SIZE	BOTANICAL NAME	COMMON NAME
TREES			
ARW	24"	ALNUS RHOMBIFOLIA	WHITE ALDER
LSR	24"	LIQUIDAMBER STYRACIFLUA 'ROTUNDILOBA'	SWEET GUM
SSC	15G	SEQUOIA SEMPERVIVENS 'A. BLUE'	COAST REDWOOD
UPC	24"	ULMUS PARVIFOLIA	EVERGREEN CHINESE ELM
PCA	24"	PYRUS CALLERYANA 'ARISTOCRAT'	ORNAMENTAL PEAR
PRC	24"	PLANTANUS RACEMOSA	CALIFORNIA SYCAMORE
SHRUBS			
HH	5G	HEMEROCALLIS FULVA	ORANGE DAYLILY
RE	5G	RAPHIOLEPIS INDICA 'ENCHANTRESS'	INDIA HAWTHORNE
AO	5G	AGAPANTHUS ORIENTALIS	LILY OF THE NILE
MI	5G	MORAEA IRIDIODES	FORTNIGHT LILY
AG	5G	ABELIA GRANDIFLORA	GLOSSY ABELIA
GROUNDCOVERS			
FLTS		HYPERICUM CALY CINUM	ARRON'S BEARD 8" O/C
FLTS		GAZANIA REPTENS 'YELLOW'	TRAILING GAZANIA 8" O/C
FLTS		ANNUAL COLOR	SEASONAL COLOR 6" O/C
TURF			
SOD - FESCUE BLEND OR AS SELECTED BY OWNER			

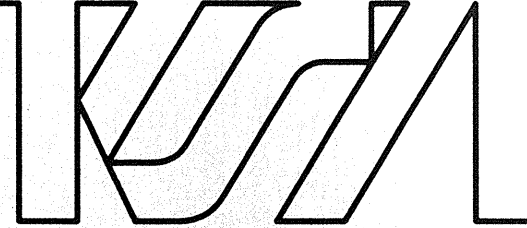
LANDSCAPE NOTES

1. TREES SHALL BE STAKED AS PER DETAILS AND SPECIFICATIONS.
2. ALL TREES IN TURF AREAS SHALL RECIEVE TRUNK GUARDS. GUARDS SHALL BE 'ARBOR GARD' AS MANUFACTURED BY DEEP ROOT CORPORATION OR APPROVED EQUAL.
3. THERE SHALL BE NO SUBSTITUTIONS OR DELETIONS OF PLANT MATERIALS W/O APPROVAL OF THE ARCHITECT, THE OWNER OR THE LANDSCAPE ARCHITECT.
4. CONTRACTOR SHALL CONFORM TO ALL CITY CODES AND REQUIREMENTS INCLUDING ALL INSPECTIONS PERTAINING TO THIS INSTALLATION
5. CONTRACTOR MAY RELOCATE PLANT MATERIALS TO ACCOMODATE EXISTING SITE UTILITIES. SUBMIT CHANGES IN WRITING TO THE ARCHITECT FOR REVIEW BY THE LANDSCAPE ARCHITECT FOR APPROVAL.

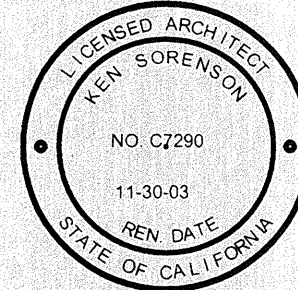


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RALPH ADAME A.S.L.A #2000

KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

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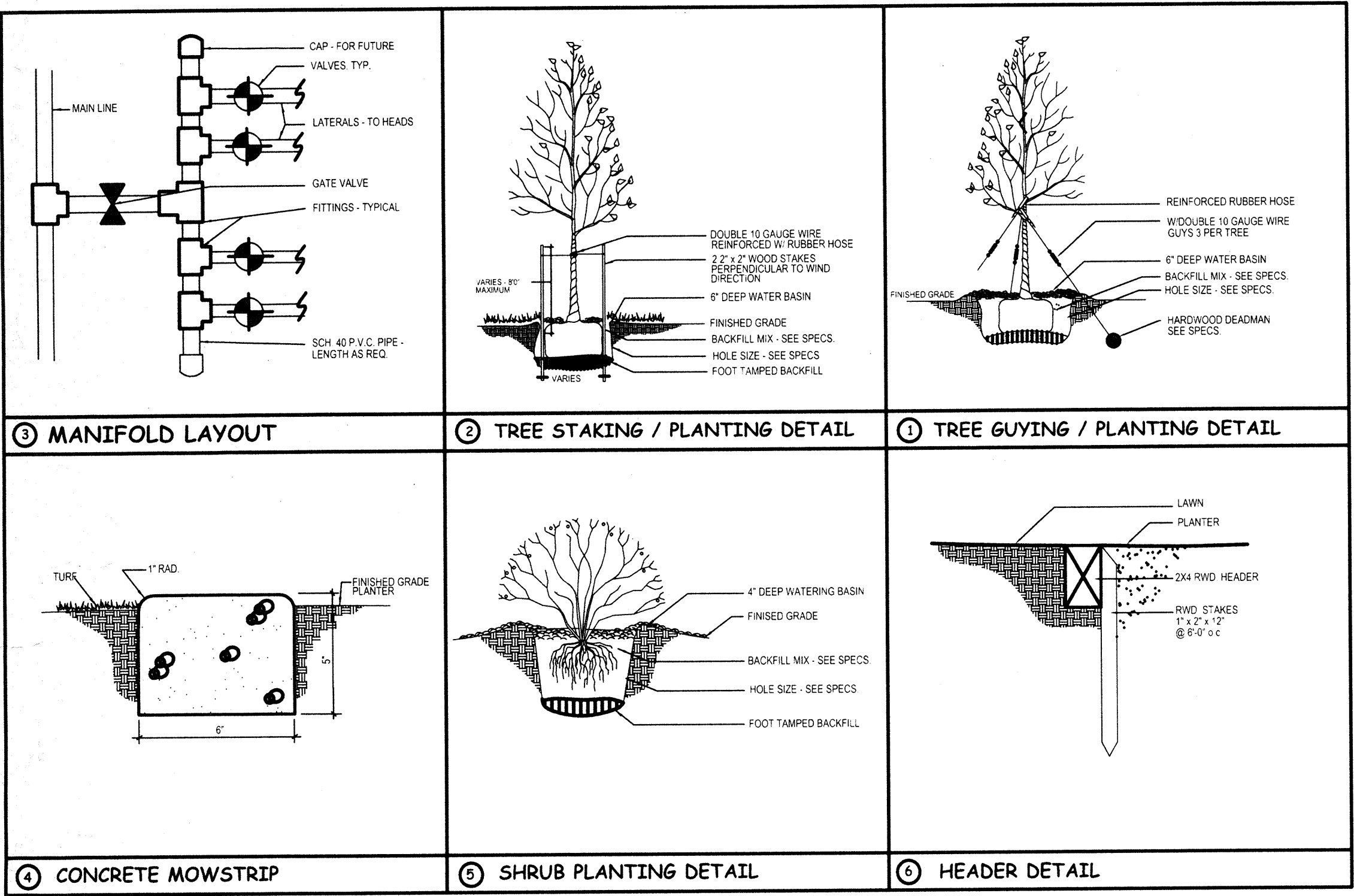
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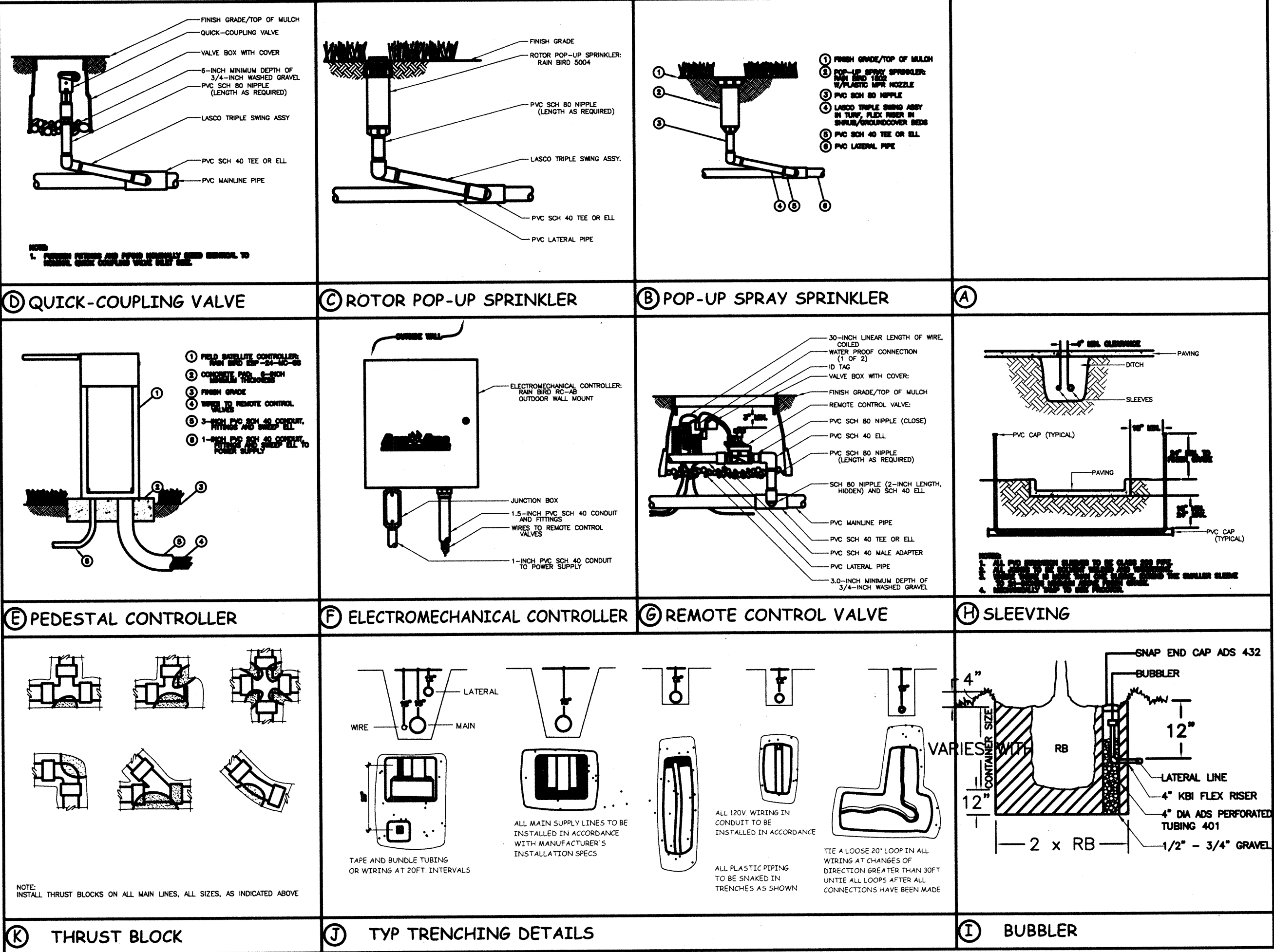
No.	Description	Date
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SCHEDULES & NOTES		
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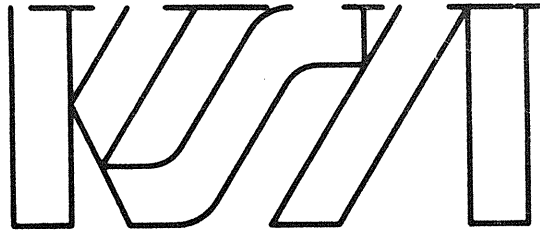
LANDSCAPE DETAILS



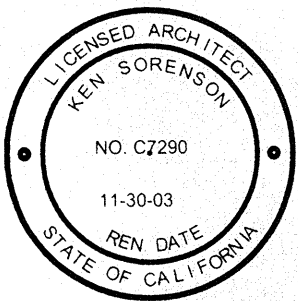
IRRIGATION DETAILS



KSA GROUP ARCHITECTS



4660 American Avenue Suite 200
Bakersfield, California 93309
(661) 834-1331 FAX (661) 834-1376



Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A MULTI-PURPOSE
GYMNASIUM AND
RECREATION
BUILDING

EUCLID AVENUE
SHAFTER, CA.

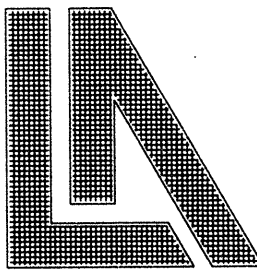
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LANDSCAPE
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RALPH ADAME A.S.L.A #2000

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WALLACE & SMITH SITE SUPER
BOB - BURK

KEY NOTES

- 01 EXISTING PREPARED BUILDING PAD - FINISHED PAD ELEVATION = 343.90' - MODULAR BUILDING MANUFACTURER SHALL EXCAVATE FOR FOUNDATIONS AND PIT AS NECESSARY FOR INSTALLATION OF BUILDING WITH A FINISHED FLOOR ELEVATION OF 344.40'
- 02 UNDER FLOOR ACCESS BY BUILDING MANUFACTURER PROVIDE REMOVEABLE GALVANIZED WALK-ON GRATE SECURLY ANCHORED TO FOUNDATION
- 03 ACCEPTABLE LOCATIONS OF FOUNDATION VENTILLATION GRILLES - GRILLES SHALL BE OF GALVANIZED STEEL WALK-ON GRATE FLUSH WITH ADJACENT CONCRETE WALKS - COORDINATE GRATE ELEVATIONS AND LOCATIONS WITH ARCHITECT - VENTILLATION GRILLES SHALL NOT BE LOCATED WITHIN 2'-0" OF DOOR OPENINGS OR JAMBS - VENT BOXES AND GRILLES BY BUILDING MANUFACTURER
- 04 CONCRETE WALKS AND SITE HARDSCAPING SHALL BE BY OWNER TYPICAL U.O.N.
- 05 6 INCH WIDE CONCRETE LANDSCAPE CURB BY OWNER
- 06 6'-0" HIGH CHAIN LINK FENCE AND GATES WITH 12 INCH WIDE MOW CURB CENTERED ON POSTS BY OWNER TYPICAL
- 07 4'-0" HIGH CHAIN LINK FENCE AND GATES WITH 12 INCH WIDE MOW CURB CENTERED ON POSTS BY OWNER TYPICAL
- 08 LANDSCAPE AND IRRIGATION BY OWNER
- 09 CONCRETE CURB AND ADJACENT PARKING AREA BY PHASE 1 CONTRACTOR
- 10 SITE IMPROVEMENTS SHOWN FOR INFORMATIONAL PURPOSES - SITE WORK TO BE PERFORMED BY OWNER TYPICAL U.O.N.
- 11 EXTENT OF PHASE 2 - WORK RELATED TO DAY CARE CENTER - PHASE 2
- 12 APPROXIMATE LOCATION OF UTILITY SERVICE STUBS - OWNER SHALL PROVIDE TIE IN AND SERVICE CONNECTION FROM UTILITIES TO POINT OF CONNECTION APPROXIMATELY 5'-0" FROM BUILDING - MODULAR BUILDING MANUFACTURER SHALL STUB CONDUITS AND PROVIDE PULL BOXES AND VALVE BOXES TO LOCATION AT NORTH END OF BUILDING - EXACT LOCATIONS SHALL BE COORDINATED WITH OWNER.
- 13 APPROXIMATE LOCATION OF UTILITY CONNECTIONS FOR BUILDING - MODULAR BUILDING MANUFACTURER SHALL STUB UTILITIES TO BOXES IN THIS REGION OWNER SHALL MAKE FINAL CONNECTION - REFER TO KEYNOTE 12

KSA GROUP ARCHITECTS

KSA

4660 American Avenue Suite 200
Bakersfield, California 93309
(861) 834-1331 FAX (861) 834-1376

Ken Sorenson AIA C 7290
Derek Holdsworth AIA C 8675

A NEW MODULAR BUILDING PROJECT:

SHAFTER HEAD START DAY CARE CENTER

UCLID AVENUE
SHAFTER, CALIFORNIA

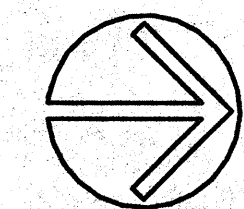
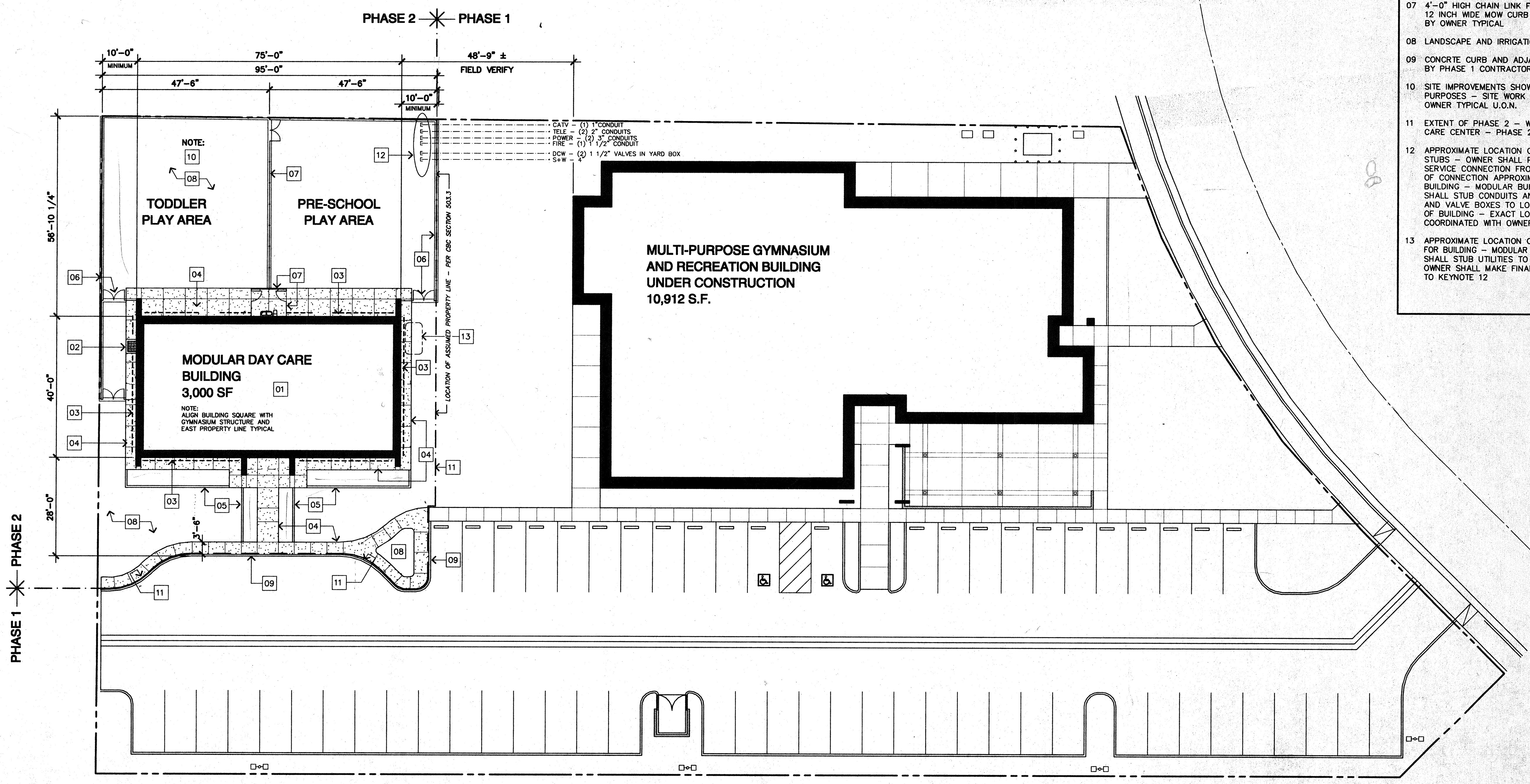
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SITE PLAN

SCALE: 1/16" = 1'-0"

0 8' 16' 32' 48'

No.	Description	Date
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SITE PLAN		
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