9905 Asbuilts

4

Plumbing P-5
Elec. CC-02
FC-02
All other per plan

MODERNIZATION PROJECT
FOR :
JEFFERSON MIDDLE SCHOOL
OCEANSIDE UNIFIED SCHOOL DISTRICT
OCEANSIDE, CALIFORNIA

OLA APPLICATION # 77/73569/00-02
DSA APPLICATION A-61964
MAY 7, 1999

OUSD BID 9899-16
PHASE II

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BUILDING G MODERNIZATION
JEFFERSON M.S. "AS-BUILT"

GROTH ARCHITECTS

MODERNIZATION PROJECT
FOR :

JEFFERSON MIDDLE SCHOOL

OCEANSIDE UNIFIED SCHOOL DISTRICT
OCEANSIDE, CALIFORNIA

OLA APPLICATION # 77/73569/00-02
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NOTES

THE PROJECT MANUAL, INCLUSIVE OF DETAILS, IS A PART OF THE CONSTRUCTION DOCUMENT SET.

GENERAL CODE REQUIREMENTS:

1. ALL WORK SHALL CONFORM TO TITLE 24, CCR (CALIFORNIA CODE OF REGULATIONS)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR BY A CHANGE ORDER APPROVED BY THE DEPT. OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR
3. A PROJECT INSPECTOR EMPLOYED BY THE SCHOOL DISTRICT (OWNER) AND APPROVED BY THE DEPARTMENT OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-432, PART 1, TITLE 24 CCR.
4. A HARDCOPY OF THE 1995 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE, SHALL BE PROVIDED BY THE CONTRACTOR AND BE MADE AVAILABLE ON THE JOBSITE(S) AT ALL TIMES.
5. A HARDCOPY OF THE 1995 EDITION OF TITLE 24, PART 3, CALIFORNIA ELECTRICAL CODE, SHALL BE PROVIDED BY THE CONTRACTOR AND BE MADE AVAILABLE ON THE JOBSITE(S) AT ALL TIMES.
6. A HARDCOPY OF THE 1995 EDITION OF TITLE 24, PART 4, CALIFORNIA MECHANICAL CODE, SHALL BE PROVIDED BY THE CONTRACTOR AND BE MADE AVAILABLE ON THE JOBSITE(S) AT ALL TIMES.
7. A HARDCOPY OF THE 1995 EDITION OF TITLE 24, PART 5, CALIFORNIA PLUMBING CODE, SHALL BE PROVIDED BY THE CONTRACTOR AND BE MADE AVAILABLE ON THE JOBSITE(S) AT ALL TIMES.
8. LOCAL FIRE DEPARTMENT ACCESS, EGRESSS, AND GATE ENTRANCES SHALL CONFORM TO TITLE 19, CCR, PUBLIC SAFETY SECTIONS 3.05 AND 3.16.
9. FIRE FLOW AND FIRE HYDRANTS SHALL COMPLY WITH THE 1995 EDITION OF TITLE 24, PART 9, CALIFORNIA FIR CODE, APPENDICES III-AA AND III-BB.
10. PUBLIC SCHOOL SHALL CONFORM TO SECTION 12081 OF THE EDUCATION CODE.

CODE EDITIONS

WORK SHALL BE PERFORMED PER THE FOLLOWING CODES:

TITLE 19

TITLE 24, PART 1, C.C.R., OFFICE OF STATE ARCHITECT

TITLE 24, PART 2, C.C.R., BUILDING CODE, 1995 EDITION WITH 1997 SUPPLEMENTS

TITLE 24, PART 3, C.C.R., ELECTRICAL CODE, 1995 EDITION AND 1996 AMENDMENT

TITLE 24, PART 4, C.C.R., MECHANICAL CODE, 1995 EDITION

TITLE 24, PART 5, C.C.R., PLUMBING CODE, 1995 EDITION

TITLE 24, PART 9, C.C.R., FIRE CODE, 1995 EDITION

BARRIER FREE PATH OF TRAVEL

PATH OF TRAVEL INDICATED IS A BARRIER-FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES THAT EXCEED 1/2" AT 1 : 2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED.

LICENSED ARCHITECT
GLENN F. GROTH
C-12939
REN 8/31/1999
STATE OF CALIFORNIA

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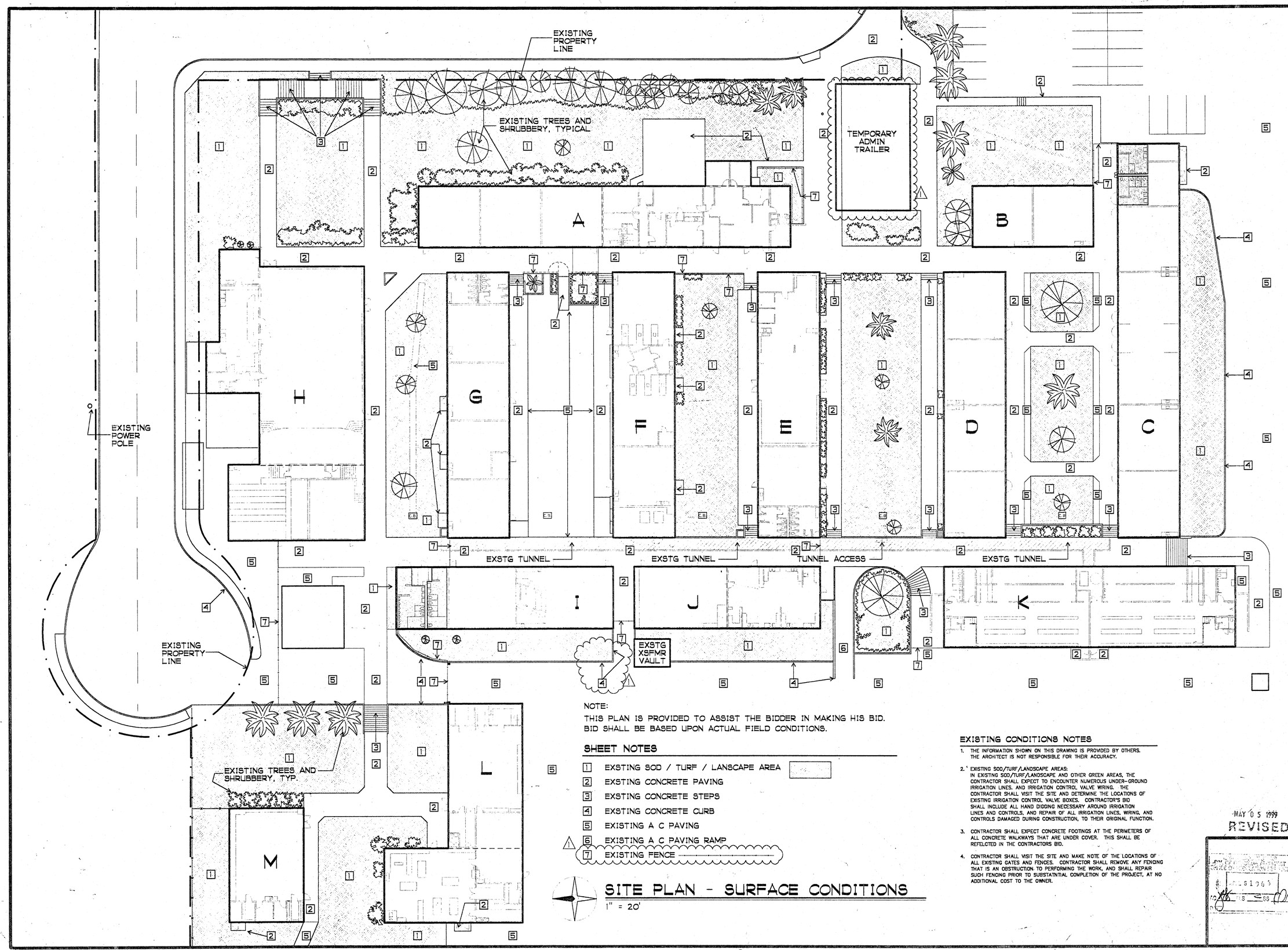
JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS MARCH 15, 1998

SHEET TITLE
TITLE SHEET
INDEX
NOTES

A-00.1



NOTE:
THIS PLAN IS PROVIDED TO ASSIST THE BIDDER IN MAKING HIS BID. BID SHALL BE BASED UPON ACTUAL FIELD CONDITIONS.

SHEET NOTES

1. EXSTING SOD / TURF / LANSCAPE AREA
2. EXSTING CONCRETE PAVING
3. EXSTING CONCRETE STEPS
4. EXSTING CONCRETE CURB
5. EXISTING A C PAVING
6. EXISTING A C PAVING RAMP
7. EXISTING FENCE

SITE PLAN - SURFACE CONDITIONS

1" = 20'

EXISTING CONDITIONS NOTES

1. THE INFORMATION SHOWN ON THIS DRAWING IS PROVIDED BY OTHERS. THE ARCHITECT IS NOT RESPONSIBLE FOR THEIR ACCURACY.
2. EXISTING SOD/TURF/LANDSCAPE AREAS: IN EXISTING SOD/TURF/LANDSCAPE AND OTHER GREEN AREAS, THE CONTRACTOR SHALL EXPECT TO ENCOUNTER NUMEROUS UNDER-GROUND IRRIGATION LINES, AND IRRIGATION CONTROL VALVE WIRING. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE LOCATIONS OF EXISTING IRRIGATION CONTROL VALVE BOXES. CONTRACTOR'S BID SHALL INCLUDE ALL HAND DIGGING NECESSARY AROUND IRRIGATION LINES AND CONTROLS, AND REPAIR OF ALL IRRIGATION LINES, WIRING, AND CONTROLS DAMAGED DURING CONSTRUCTION, TO THEIR ORIGINAL FUNCTION.
3. CONTRACTOR SHALL EXPECT CONCRETE FOOTINGS AT THE PERIMETERS OF ALL CONCRETE WALKWAYS THAT ARE UNDER COVER. THIS SHALL BE REFELCTED IN THE CONTRACTORS BID.
4. CONTRACTOR SHALL VISIT THE SITE AND MAKE NOTE OF THE LOCATIONS OF ALL EXISTING GATES AND FENCES. CONTRACTOR SHALL REMOVE ANY FENCING THAT IS AN OBSTRUCTION TO PERFORMING THE WORK, AND SHALL REPAIR SUCH FENCING PRIOR TO SUBSTATNTIAL COMPLETION OF THE PROJECT, AT NO ADDITIONAL COST TO THE OWNER.

MAY 05 1999
REVISED

LICENSED ARCHITECT
GLENN F. GROTH
C-12939
REN 8/31/1999
STATE OF CALIFORNIA

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JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

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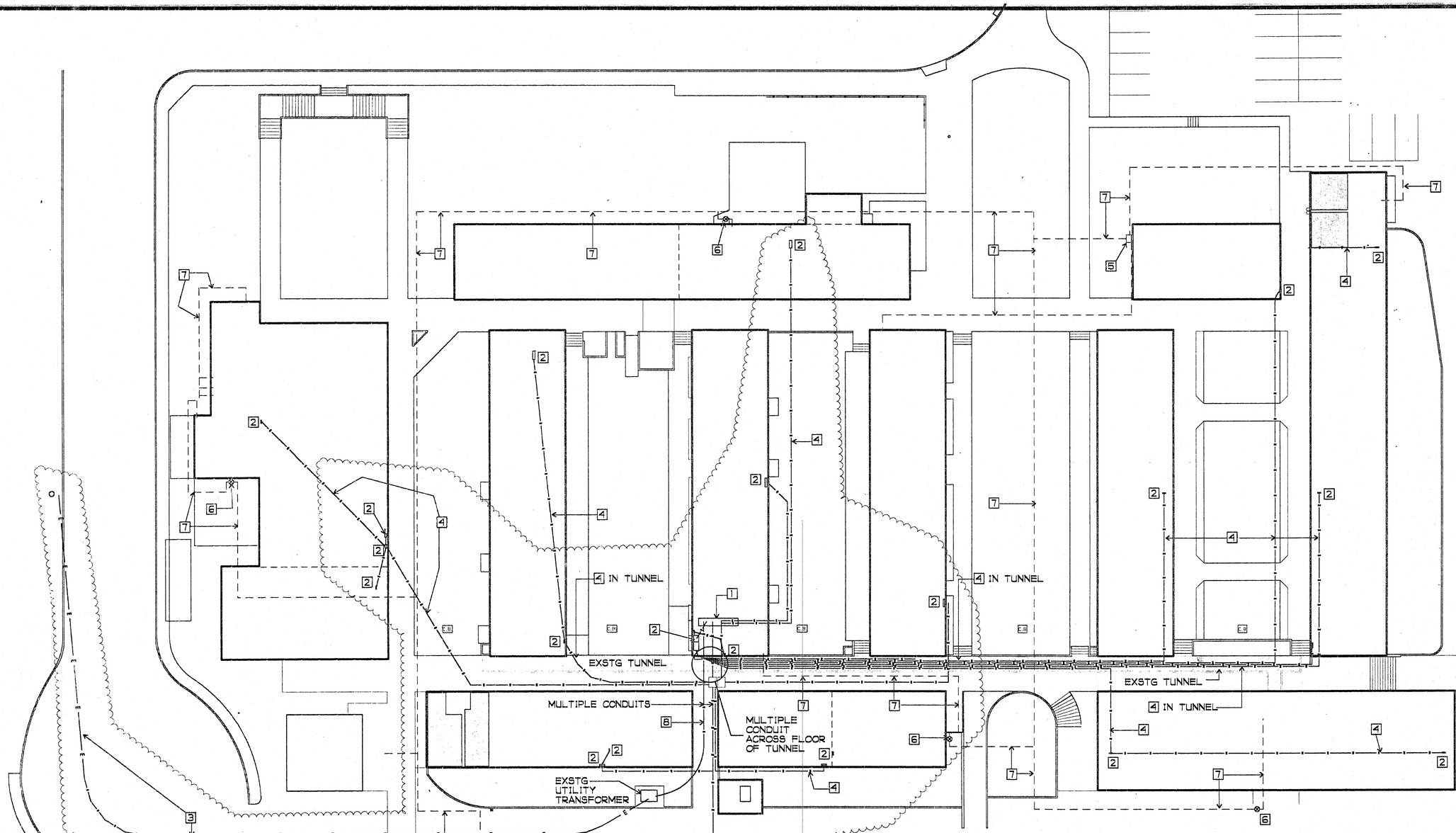
PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
1 AUG 4, 1998

SHEET TITLE
SURFACE CONDITIONS SITE PLAN

A-00.2



NOTE:

THIS PLAN IS PROVIDED TO ASSIST THE BIDDER IN MAKING HIS BID.

SHEET NOTES

1. EXISTING MAIN SWITCHBOARD 2500A 120/208V 3ϕ
2. EXISTING ELECTRICAL PANEL / SUB-PANEL
3. EXISTING HIGH VOLTAGE U/G UTILITY LINE FROM POWER POLE
4. EXISTING ELECTRICAL LINE(S) —·—·—
5. EXISTING GAS METER
6. EXISTING GAS PRESSURE REGULATOR
7. EXISTING GAS LINE(S) — — — —
8. (6) EXISTING UTILITY U/G ELEC LINES FROM TRANSFORMER TO MAIN

NOTE: GAS / ELEC LINES SHOWN IN BUILDING MAY BE ABOVE GROUND

EXISTING UNDERGROUND GAS AND ELECTRICAL LINES

1" = 20'

EXISTING CONDITIONS NOTES

1. THE INFORMATION SHOWN ON THIS DRAWING IS PROVIDED BY OTHERS. THE ARCHITEXT IS NOT RESPONSIBLE FOR THEIR ACCURACY.
2. OTHER OVERHEAD UTILITIES AND FACILITIES MAY EXIST ON SITE. THE BIDDER SHALL BE AWARE THAT THIS IS NOT A COMPLETE SURVEY.
3. VISIT SITE AND EXAMINE THE PREMISES. MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
4. VERIFY WITH THE OWNER REGARDING ANY HISTORICAL DOCUMENTS OR DRAWINGS WHICH MAY SHOW EXISTING FACILITIES WHICH MAY AFFECT THE WORK. REVIEW THE DOCUMENTS AND DRAWINGS IN THE FIELD TO VERIFY THAT THE DRAWINGS ARE ACCURATE. MAKE NOTE OF ANY DISCREPANCIES BETWEEN THE HISTORICAL DOCUMENTS OR DRAWINGS. TROUBLES OR DIFFICULTIES ENCOUNTERED BECAUSE OF CONTRACTOR'S FAILURE TO REVIEW THE DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

   1 OCEANSIDE INTERMEDIATE SCHOOL #A-11251 OCT. 18, 1953 OCEANSIDE – LIBBY UNION SCHOOL DISTRICT

   2A INTERMEDIATE SCHOOL ADDITIONS #A-12377 SEP. 27, 1954
   2B INTERMEDIATE SCHOOL ADDITIONS #A-13151 APRIL 27, 1955
   2C INTERMEDIATE SCHOOL ADDITIONS #A-17926 OCT. 31, 1958
   2D INTERMEDIATE SCHOOL ADDITIONS #A-18745 NOV. 25, 1959 OCEANSIDE – LIBBY UNION SCHOOL DISTRICT
   3 HEATING SYSTEMS REVISIONS JEFFERSON JR HIGH SCHOOL APRIL 10, 1985

5. THE SUBMISSION OF BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE, AND HAS REVIEWED THE AVAILABLE DOCUMENTS AND DRAWINGS, AND HAS AN AWARENESS OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE SUBMISSION OF BID WILL CONSTITUTE CONTRACTOR'S WAIVER OF ANY CLAIMS AGAINST THE OWNER FOR CONDITIONS AND DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN BY EXAMINING THE SITE AND THE EXISTING DOCUMENTS AND DRAWINGS.
6. EXAMINE THE AREA, AND NOTE THE CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED.
7. PROVIDE A LOCATING SERVICE. CONTRACTOR IS RESPONSIBLE FOR THE LOCATING OF ALL SUBSURFACE ELECTRICAL AND/OR COMMUNICATIONS UTILITIES OR BRANCH LINES; ACTIVE WATER, IRRIGATION, SEWER, STORM, GAS, FUEL, OR OTHER PIPING; FIBER DUCT, CORRUGATED STORM DRAIN, OR ANY OTHER FUNCTIONING UNDERGROUND NETWORK OR SYSTEM.
8. IDENTIFY AND MARK UTILITIES BY TYPE WITHIN THE PROJECT AREA. MAINTAIN MARKINGS AS LONG AS THEY ARE REQUIRED FOR THE PERFORMANCE OF THE WORK. PROVIDE NEW MARKINGS IF THE ORIGINAL MARKINGS ARE DELETED.
9. REMOVE MARKINGS AFTER COMPLETION OF THE WORK TO BE PERFORMED.
10. EXISTING OVERHEAD UTILITIES WILL OCCUR IN THE FOLLOWING AREAS:
    A. CONCEALED IN ARCADE (WALKWAY COVER) ATTIC
    B. CONCEALED WITHING BUILDING ATTIC
    C. EXPOSED SUSPENDED FROM CEILINGS OR FROM WALLS
    D. EXPOSED ON THE ARCADE AND BUILDING ROOFTOP
    E. EXPOSED AS OVERHEAD SUSPENDED LINES
    F. CONCELAED IN WALLS
11. CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER FOR THE CONTRACTOR'S FAILURE TO LOCATE AND MARK EXISTING UTILITIES WHICH ARE SUBSEQUENTLY DAMAGED, BROKEN, OR SERVICE OTHERWISE IS INTERRUPTED DURING THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING/RESTORING THE UTILITY TO ITS ORIGINAL FUNCTION/ CONDITION.
12. IF EXISTING UTILITIES ARE FOUND TO INTERFERE WITH PERMANENT FACILITIES BEING CONSTRUCTED, IMMEDIATELY NOTIFY THE ARCHITECT AND SECURE HIS INSTRUCTIONS.

LICENSED ARCHITECT
GLENN F. GROTH
C-12939
REN 8/31/1998
STATE OF CALIFORNIA

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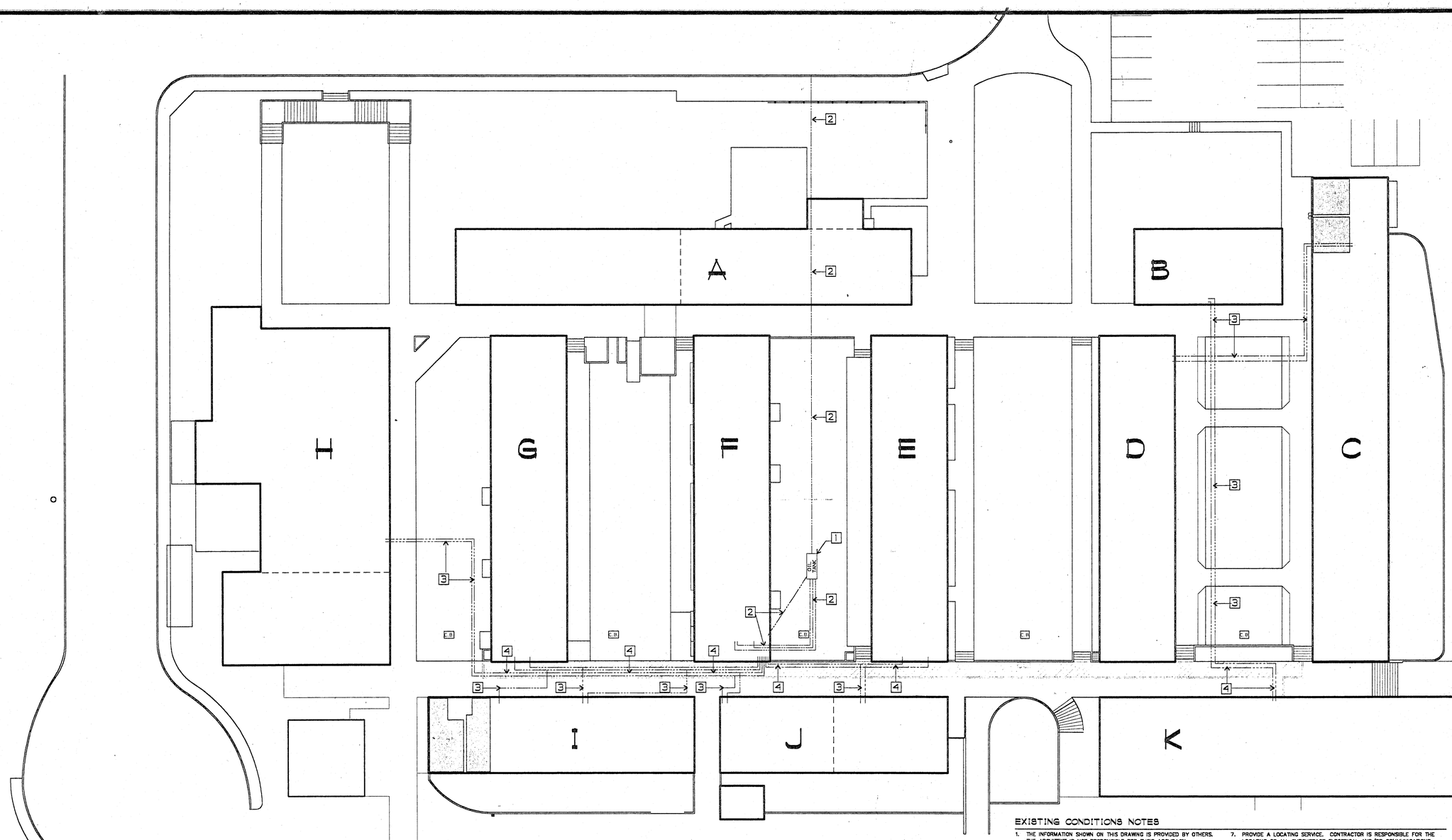
JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
5 MAY 7, 1999

SHEET TITLE
SITE PLAN EXISTING UNDER-GROUND GAS AND ELECTRIC LINES

A-00.3



NOTE:
STEAM PIPING AND FUEL OIL SYSTEMS HAVE BEEN ABANDONED

NOTE:
THIS PLAN IS PROVIDED TO ASSIST THE BIDDER IN MAKING HIS BID.

SHEET NOTES

1. EXISTING U/G FUEL OIL TANK (ABANDONED)
2. EXISTING U/G FUEL OIL LINES (ABANDONED)
3. EXISTING U/G STEAM PIPING (ABANDONED)
4. EXISTING STEAM PIPING IN TUNNEL (ABANDONED)

SITE PLAN
EXISTING FUEL OIL AND STEAM PIPING SYSTEMS

1" = 20'

EXISTING CONDITIONS NOTES

1. THE INFORMATION SHOWN ON THIS DRAWING IS PROVIDED BY OTHERS. THE ARCHITEXT IS NOT RESPONSIBLE FOR THEIR ACCURACY.
2. OTHER OVERHEAD UTILITIES AND FACILITIES MAY EXIST ON SITE. THE BIDDER SHALL BE AWARE THAT THIS IS NOT A COMPLETE SURVEY.
3. VISIT SITE AND EXAMINE THE PREMISES. MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
4. VERIFY WITH THE OWNER REGARDING ANY HISTORICAL DOCUMENTS OR DRAWINGS WHICH MAY SHOW EXISTING FACILITIES WHICH MAY AFFECT THE WORK. REVIEW THE DOCUMENTS AND DRAWINGS IN THE FIELD TO VERIFY THAT THE DRAWINGS ARE ACCURATE. MAKE NOTE OF ANY DISCREPANCIES BETWEEN THE HISTORICAL DOCUMENTS OR DRAWINGS. TROUBLES OR DIFFICULTIES ENCOUNTERED BECAUSE OF CONTRACTOR'S FAILURE TO REVIEW THE DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   1 OCEANSIDE INTERMEDIATE SCHOOL #A-11251 OCT. 18, 1953 OCEANSIDE – LIBBY UNION SCHOOL DISTRICT
   2A INTERMEDIATE SCHOOL ADDITIONS #A-12377 SEP. 27, 1954
   2B INTERMEDIATE SCHOOL ADDITIONS #A-13151 APRIL 27, 1955
   2C INTERMEDIATE SCHOOL ADDITIONS #A-17926 OCT. 31, 1958
   2D INTERMEDIATE SCHOOL ADDITIONS #A-18745 NOV. 25, 1959 OCEANSIDE – LIBBY UNION SCHOOL DISTRICT
   3 HEATING SYSTEMS REVISIONS JEFFERSON JR HIGH SCHOOL APRIL 10, 1985
5. THE SUBMISSION OF BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE, AND HAS REVIEWED THE AVAILABLE DOCUMENTS AND DRAWINGS, AND HAS AN AWARENESS OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE SUBMISSION OF BID WILL CONSTITUTE CONTRACTOR'S WAIVER OF ANY CLAIMS AGAINST THE OWNER FOR CONDITIONS AND DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN BY EXAMINING THE SITE AND THE EXISTING DOCUMENTS AND DRAWINGS.
6. EXAMINE THE AREA, AND NOTE THE CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED.
7. PROVIDE A LOCATING SERVICE. CONTRACTOR IS RESPONSIBLE FOR THE LOCATING OF ALL SUBSURFACE ELECTRICAL AND/OR COMMUNICATIONS UTILITIES OR BRANCH LINES; ACTIVE WATER, IRRIGATION, SEWER, STORM, GAS, FUEL, OR OTHER PIPING; FIBER DUCT, CORRUGATED STORM DRAIN, OR ANY OTHER FUNCTIONING UNDERGROUND NETWORK OR SYSTEM.
8. IDENTIFY AND MARK UTILITIES BY TYPE WITHIN THE PROJECT AREA. MAINTAIN MARKINGS AS LONG AS THEY ARE REQUIRED FOR THE PERFORMANCE OF THE WORK. PROVIDE NEW MARKINGS IF THE ORIGINAL MARKINGS ARE DELETED.
9. REMOVE MARKINGS AFTER COMPLETION OF THE WORK TO BE PERFORMED.
10. EXISTING OVERHEAD UTILITIES WILL OCCUR IN THE FOLLOWING AREAS:
    A. CONCEALED IN ARCADE (WALKWAY COVER) ATTIC
    B. CONCEALED WITHING BUILDING ATTIC
    C. EXPOSED SUSPENDED FROM CEILINGS OR FROM WALLS
    D. EXPOSED ON THE ARCADE AND BUILDING ROOFTOP
    E. EXPOSED AS OVERHEAD SUSPENDED LINES
    F. CONCEALED IN WALLS
11. CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER FOR THE CONTRACTOR'S FAILURE TO LOCATE AND MARK EXISTING UTILITIES WHICH ARE SUBSEQUENTLY DAMAGED, BROKEN, OR SERVICE OTHERWISE IS INTERRUPTED DURING THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING/RESTORING THE UTILITY TO ITS ORIGINAL FUNCTION/ CONDITION.
12. IF EXISTING UTILITIES ARE FOUND TO INTERFERE WITH PERMANENT FACILITIES BEING CONSTRUCTED, IMMEDIATELY NOTIFY THE ARCHITECT AND SECURE HIS INSTRUCTIONS.
13. EXISTING UNDERGROUND PIPING MAY BE BURIED IN INSULATING MATERIAL THAT IS GRANULAR, POWDERY, DARK BROWN TO BLACK IN COLOR, AND MAY HAVE AN OILY SMELL. THE MATERIAL IS NOT CHEMICALLY HAZARDOUS. HOWEVER, BECAUSE OF THE FINE DUST/SOOTLIKE PROPERTIES, IT SHOULD BE CONSIDERED A POTENTIAL RESPIRATORY AND SKIN CONTACT IRRITANT. RECOMMENDED PROTECTIVE MEASURES FOR HANDLING::
    1. WEAR NIOSH-APPROVED DUST MASK AND PROTECTIVE CLOTHING; SUCH AS TYVEK COVERALL AND LATEX GLOVES;
    2. IMPLEMENT DUST CONTROL METHODS – LIGHTLY WET SURFACES DURING EXCAVATION. COVER ADJACENT WALLS WITH VISQUEEN;
    3. IF MATERIAL IS TO BE EXCAVATED, PLACE IT INTO DOUBLE 3 MIL TRASH BAGS WITH TOPS TWISTED TIGHTLY CLOSED;
    4. THE MATERIAL MAY BE DISPOSED OF AS INDUSTRIAL WASTE.
14. BURIED PIPING INSULATION PER NOTE 13 ABOVE MAY REMAIN IN PLACE IF IT DOES NOT INTERFERE WITH THE WORK.

MAY 05 1999
REVISED

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OFFICE OF REGULATION SERVICES
APPROVED
APR 6 1964
FILE COPY
DATE

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GLENN F. GROTH
C-12939
REN 8/31/1998
STATE OF CALIFORNIA

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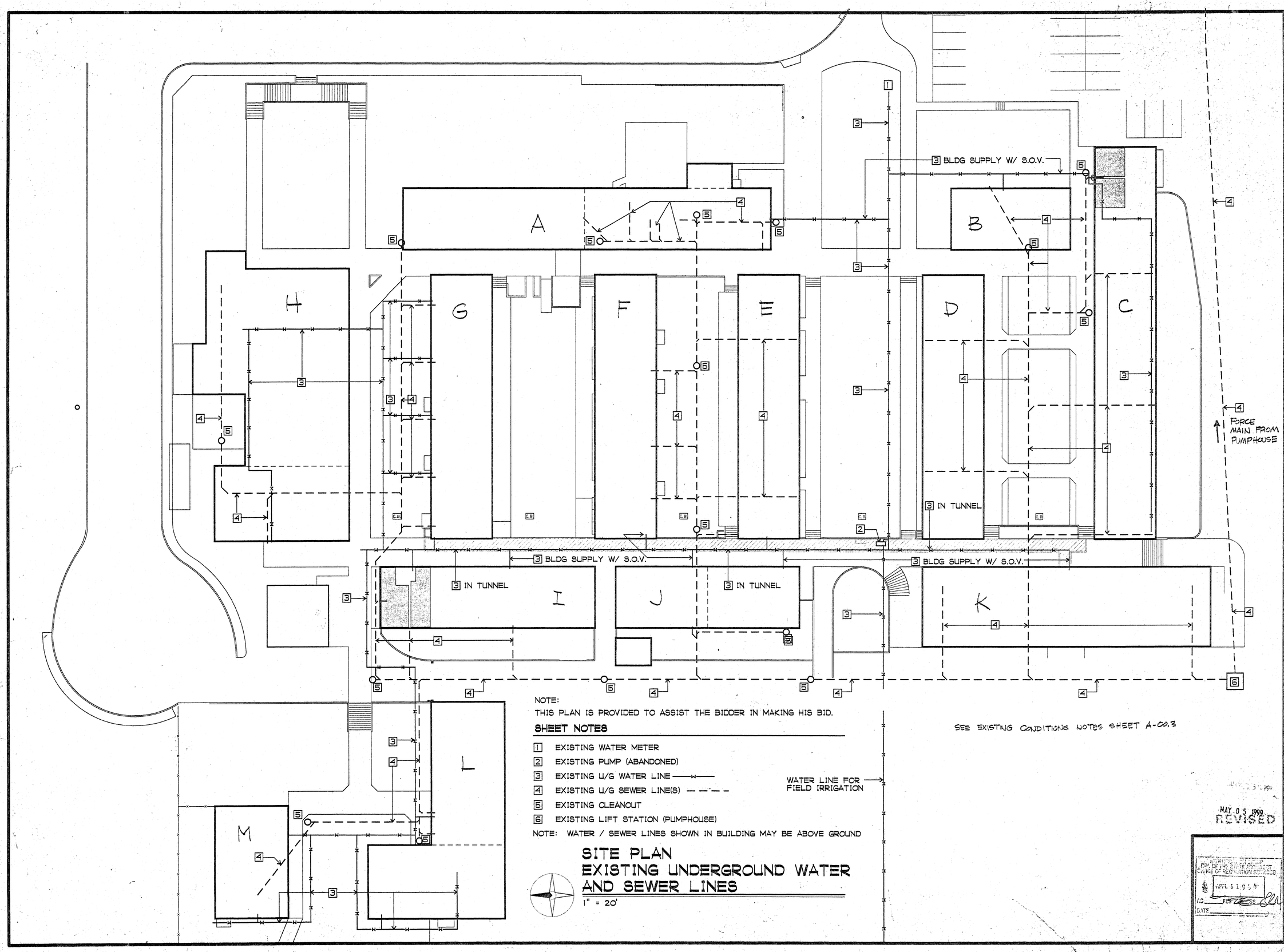
JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
△ AUG. 4, 1998

SHEET TITLE
SITE PLAN
EXISTING FUEL OIL AND STEAM HEAT PIPING SYSTEMS

A-00.4



NOTE:
THIS PLAN IS PROVIDED TO ASSIST THE BIDDER IN MAKING HIS BID.

SHEET NOTES

1. EXISTING WATER METER
2. EXISTING PUMP (ABANDONED)
3. EXISTING U/G WATER LINE ——W——
4. EXISTING U/G SEWER LINE(S) — — — —
5. EXISTING CLEANOUT
6. EXISTING LIFT STATION (PUMPHOUSE)

NOTE: WATER / SEWER LINES SHOWN IN BUILDING MAY BE ABOVE GROUND

WATER LINE FOR FIELD IRRIGATION

SITE PLAN
EXISTING UNDERGROUND WATER AND SEWER LINES

1" = 20'

SEE EXISTING CONDITIONS NOTES SHEET A-00.3

MAY 05 1999
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NO. FLS DSA
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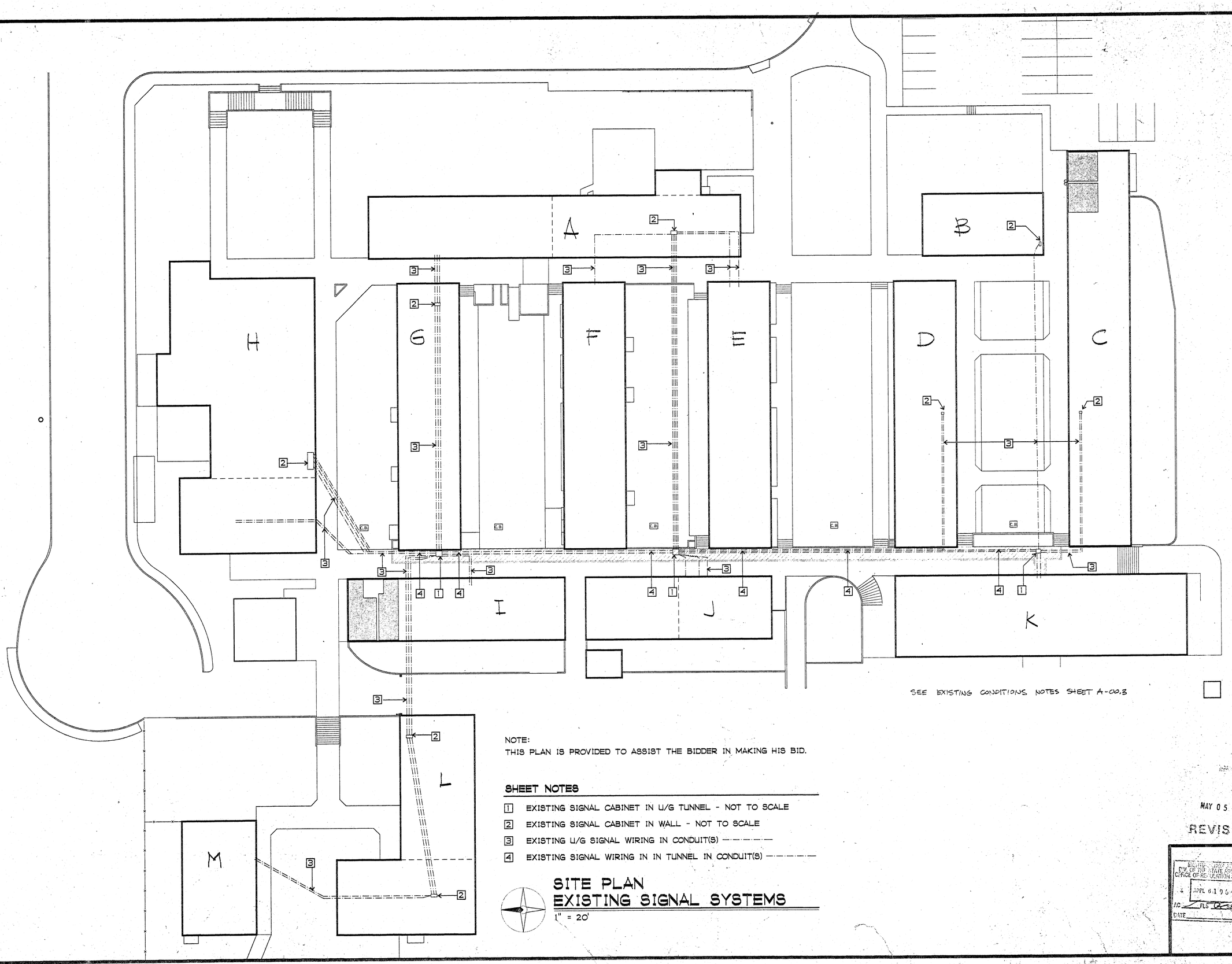
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS MARCH 15, 1998

SHEET TITLE
SITE PLAN EXISTING UNDERGROUND WATER AND SEWER LINES

A-00.5



NOTE:
THIS PLAN IS PROVIDED TO ASSIST THE BIDDER IN MAKING HIS BID.

SHEET NOTES

1. EXISTING SIGNAL CABINET IN U/G TUNNEL - NOT TO SCALE
2. EXISTING SIGNAL CABINET IN WALL - NOT TO SCALE
3. EXISTING U/G SIGNAL WIRING IN CONDUIT(S) —·—·—·—
4. EXISTING SIGNAL WIRING IN IN TUNNEL IN CONDUIT(S) —·—·—·—

SITE PLAN
EXISTING SIGNAL SYSTEMS

1" = 20'

MAY 05 1999

REVISED

DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 61964
AC FLS
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OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

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PROJECT
92043-02

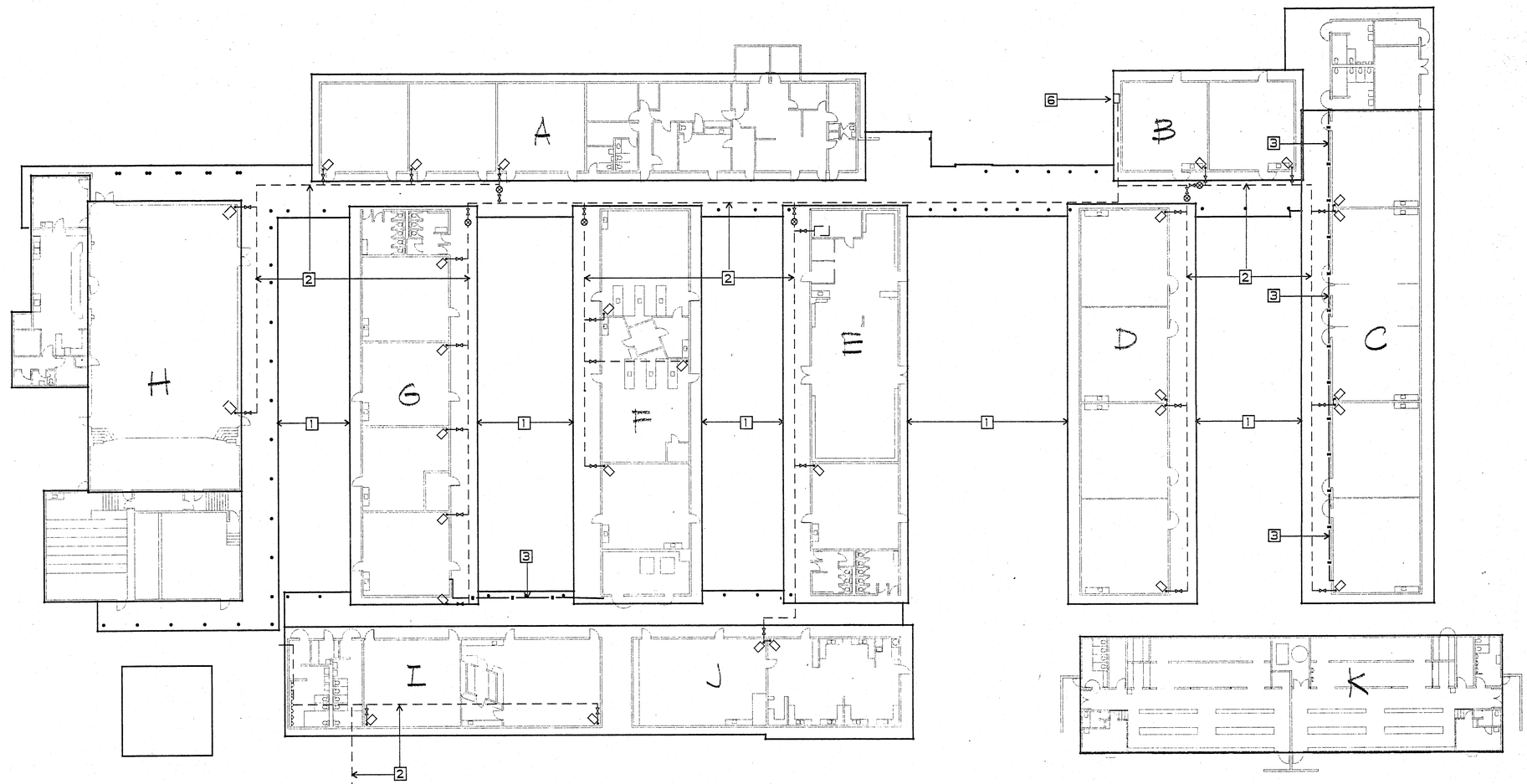
DRAWN
JSG

DATE
5-20-1994

REVISIONS
MARCH 15, 1998

SHEET TITLE
SITE PLAN
EXISTING SIGNAL
SYSTEMS

A-00.6



NOTE:
THIS PLAN IS PROVIDED TO ASSIST THE BIDDER IN MAKING HIS BID.

SHEET NOTES

1. EDGE OF EXISTING ROOF, TYP.
2. EXISTING GAS LINE(S) — — — —
3. EXISTING ELECTRIC LINE(S) RUN UNDER SOFFIT —•——•—
4. EXISTING GAS S.O.V., TYP. ⋈
5. EXISTING GAS PRESSURE REGULATOR, TYP. ⊗
6. EXISTING GAS METER

NOTE: GAS / ELEC LINES SHOWN IN BUILDING MAY BE BELOW ROOFTOP

SITE PLAN
EXISTING ROOFTOP GAS AND ELECTRICAL LINES

1" = 20'

SEE EXISTING CONDITIONS NOTES SHEET A-00.3

MAY 05 1999
REVISED

DIVISION OF THE STATE ARCHITECT
#61964
AC FIS DSA SS
DATE

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C-12939
REN: 8/31/1999
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OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

PROJECT
92043-02

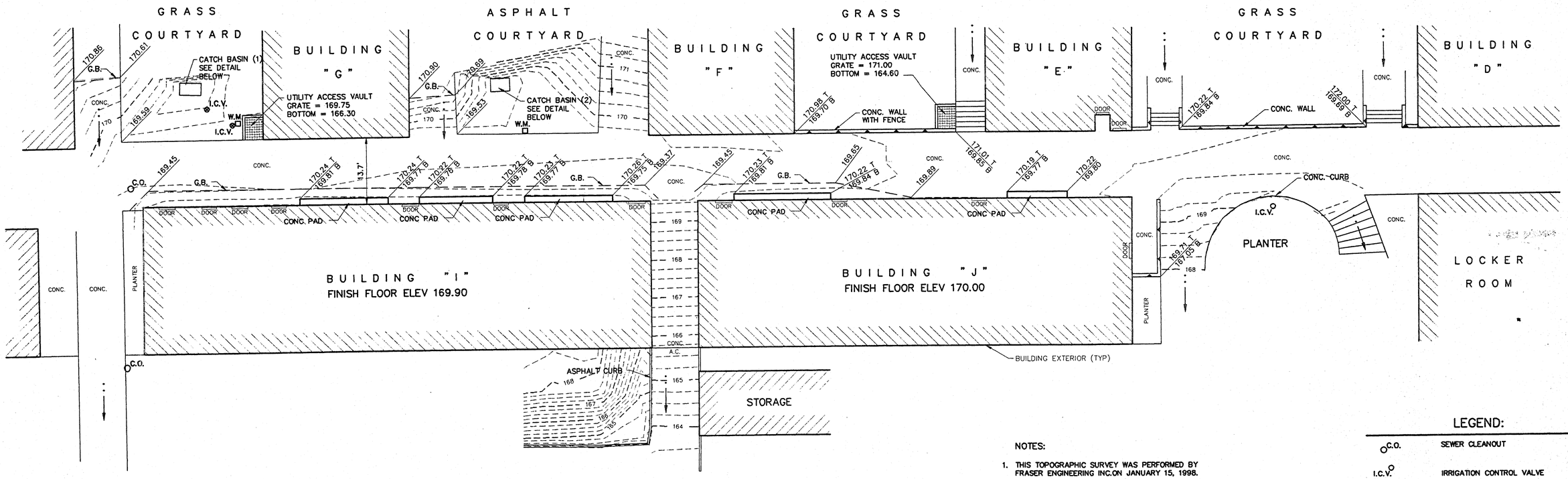
DRAWN
JSG

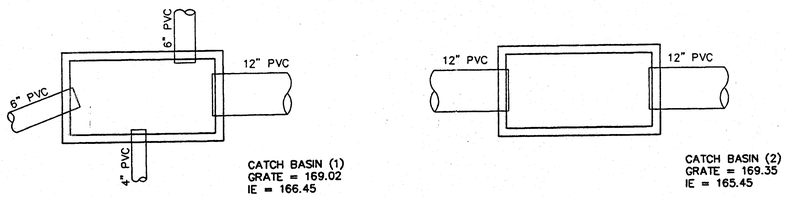
DATE
5-20-1994

REVISIONS
MARCH 15, 1998

SHEET TITLE
SITE PLAN
EXISTING
ROOFTOP GAS
AND ELEC LINES

A-00.7





CATCH BASIN DETAILS

N.T.S.

NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY FRASER ENGINEERING INC.ON JANUARY 15, 1998.
2. NO BASIS OF BEARING WAS USED ON THIS SURVEY.
3. CONTOURS ARE AT 3" INTERVALS WITH HIGHLIGHTED CONTOUR LINES EVERY VERTICAL FOOT.

LEGEND:

C.O.	SEWER CLEANOUT
I.C.V.	IRRIGATION CONTROL VALVE
W.M.	WATER METER
- - - - - - -	INTERIM CONTOUR LINE
— 166 —	INDEXED CONTOUR LINE
G.B.	SIDEWALK GRADE BREAK LINE
170.22 T / 169.84 B	EXISTING GRADE SPOT ELEVATIONS. T = TOP OF CONC PAD B = BOTTOM OF CONC PAD
←- -	DIRECTION OF FLOW

PLAN NORTH

10' 5' 0 10' 20'

SCALE: 1"=10'

MAY 05 1999
REVISED

FRASER ENGINEERING, INC.
2191 EL CAMINO REAL, OCEANSIDE, CA. 92054 (760)722-3495

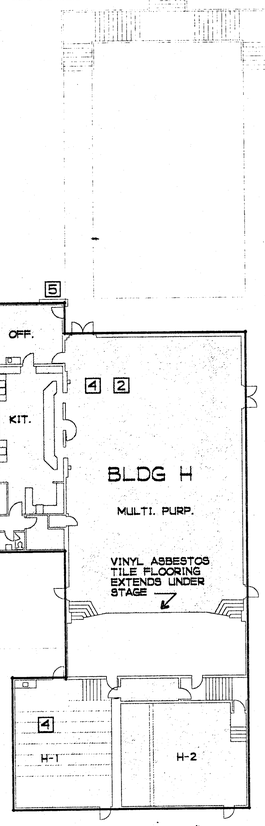
BENCHMARK:
Description: FINISHED FLOOR BUILDING "J"
Location:
Record From:
Elev. 170.00 Datum: ASSUMED

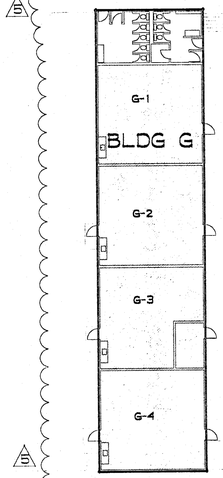
SHEET | OCEANSIDE UNIFIED SCHOOL DISTRICT | SHEETS

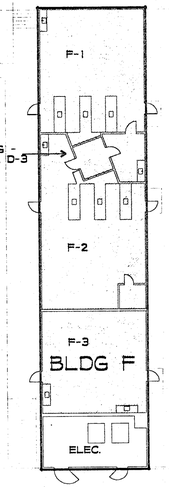
JEFFERSON MIDDLE SCHOOL TOPOGRAPHIC SURVEY

Checked By:
Approval Date:
C-1

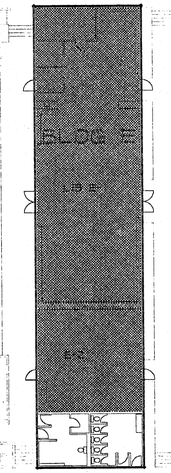
ACACIA AVENUE

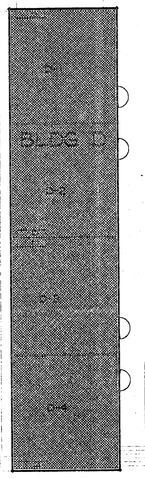


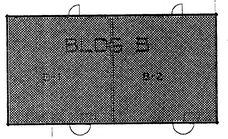


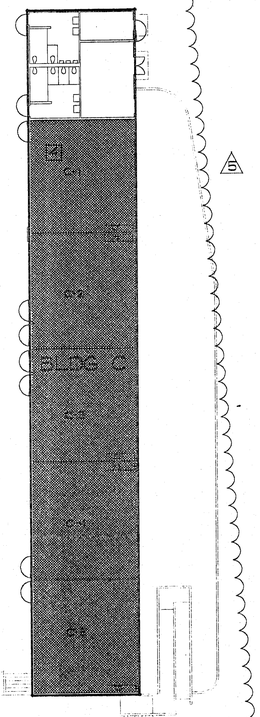


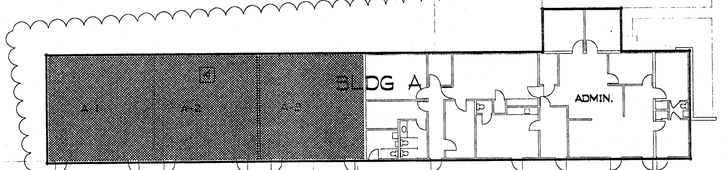
FLOORING - SEE SHT. D-3

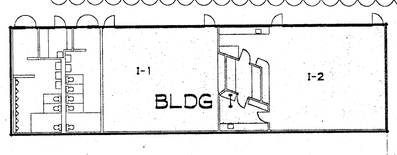


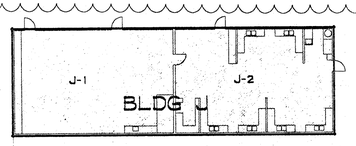




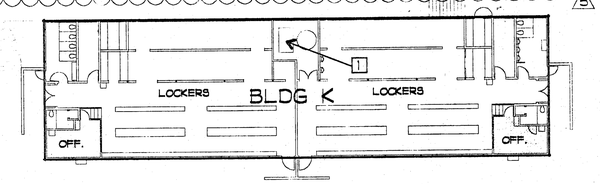


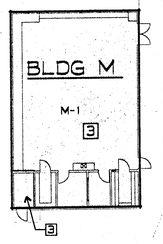


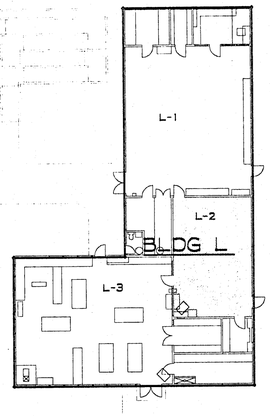




EXISTING TRANSFORMER VAULT







ASBESTOS FLOOR TILE LEGEND 4	
	NO VINYL ASBESTOS TILE
	EXISTING VINYL ASBESTOS TILE FLOORING TO BE REMOVED BY CONTRACTOR
	EXISTING VINYL ASBESTOS TILE FLOORING TO BE REMOVED BY THE OWNER

EXISTING ASBESTOS CONTAINING BUILDING MATERIAL

NOTE	REFERENCE	ITEM	REMOVAL
1	OUSD-JJHS-2421	TRANSITE PIPE	N.I.C.
2	OUSD-JJHS-2415-16	PIPE LAGGING	N.I.C.
3	OUSD-JJHS-2431	EXPANSION CLOTH	N.I.C.
4	OUSD-JJHS-2302	FLOOR TILE	N.I.C.
	OUSD-JJHS-2306	FLOOR TILE	N.I.C.
	OUSD-JJHS-2413	FLOOR TILE	N.I.C.
	OUSD-JJHS-2414	FLOOR TILE	N.I.C.
5	SHEET H2	TRANSITE PIPE	N.I.C.

ALL ASBESTOS REMOVAL WORK SHOWN IS THE RESPONSIBILITY OF THE OWNER, UNLESS NOTED OTHERWISE IN THE CONTRACT. THIS SHEET IS PROVIDED AS INFORMATION FOR THE BIDDER CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK WITH ABATEMENT WORK BY OTHERS

ASBESTOS CONTAINING BUILDING MATERIAL REMOVAL PLAN

1" = 20'

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OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

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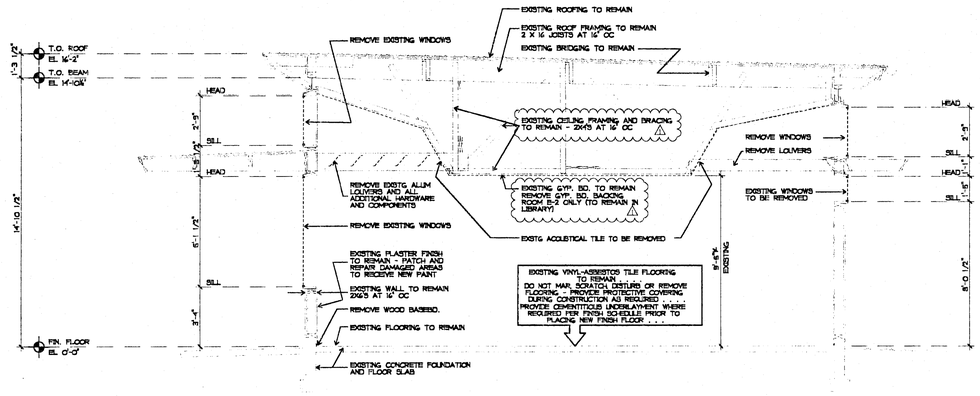
PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
5 MAY 7, 1999

GROTH ARCHITECTS

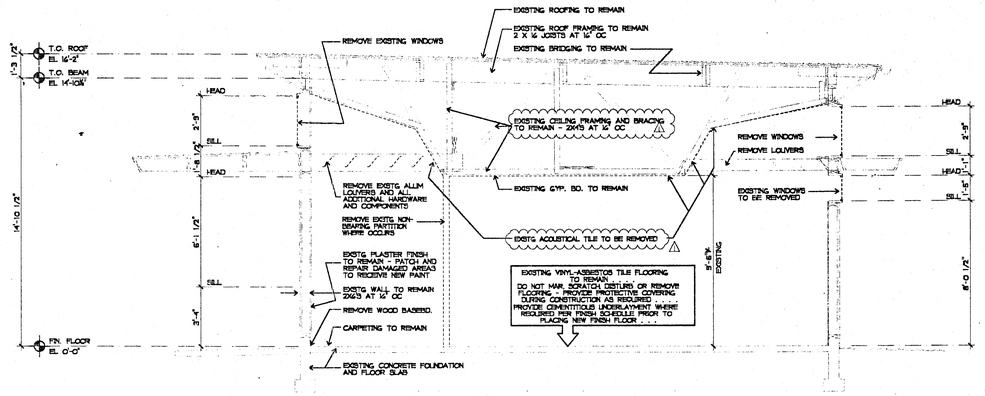
SHEET TITLE
ASBESTOS REMOVAL SITE PLAN

ASB-1



1 ROOM E-2 AND LIBRARY DEMOLITION SECTION

1/4" = 1'-0"



3 LIBRARY DEMOLITION SECTION

1/4" = 1'-0"

3 BUILDING E GIRLS DEMOLITION SECTION

1/4" = 1'-0"

4 LIBRARY DEMOLITION SECTION

1/4" = 1'-0"

5 BUILDING G DEMOLITION SECTION

1/4" = 1'-0"

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APPLICATION # 77/73569-00-02

PROJECT
92043-02

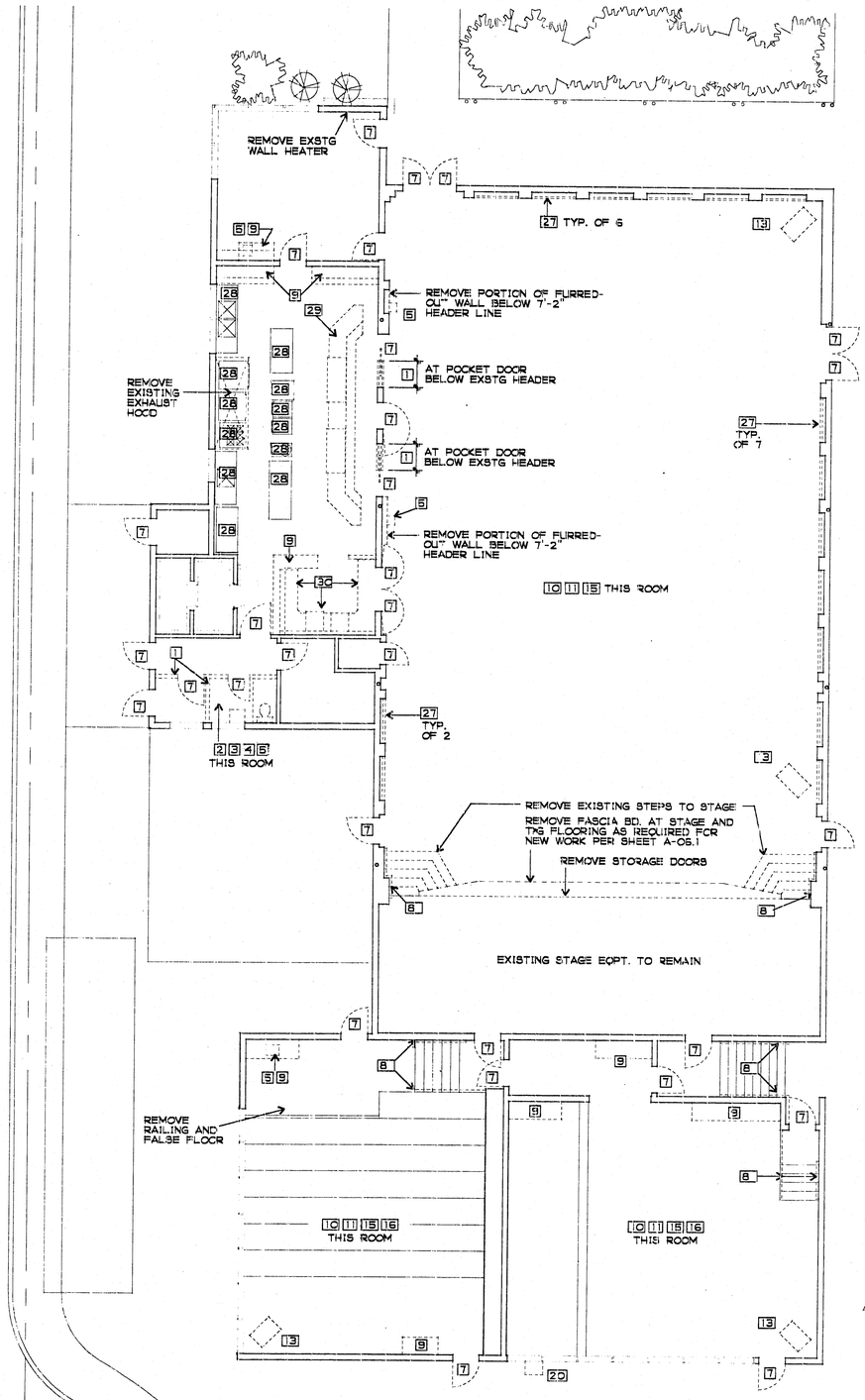
DRAWN
JSG

DATE
5-20-1994

REVISIONS
MARCH 15, 1998
1 AUG. 4, 1998
2 MAY 7, 1999

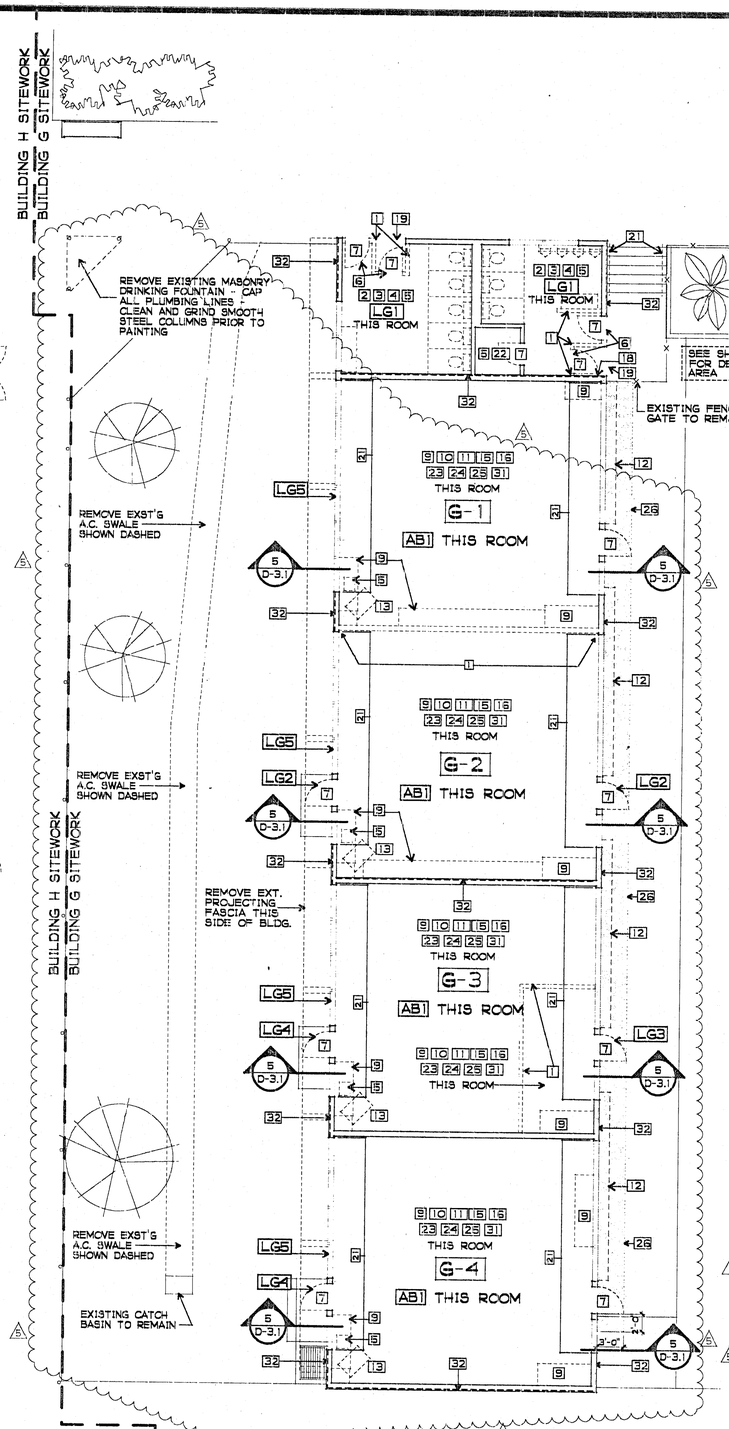
SHEET TITLE
BUILDING E & G DEMOLITION CROSS SECTIONS

D-3.1



BLDG H DEMO PLAN

1/8" = 1'-0"



BLDG G DEMO PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- A WHERE FIXTURES, CASEWORK, WALLS, CEILINGS, TRIM, ETC. ARE REMOVED FROM EXISTING PLASTER FINISH, PLASTER SHALL BE PATCHED AND REPAIRED.
- B WHERE DOORS OR WINDOWS ARE TO BE REMOVED, SEE APPROPRIATE ARCHITECTURAL DETAILS FOR EXTENT OF HEAD/JAMB/SILL DEMOLITION.
- C WHERE CONCRETE BASES/CURBS ARE TO BE REMOVED, REMOVE EXCESS CONCRETE SUFFICIENT FOR MINIMUM 3 INCH THICK CONCRETE PATCH.
- D WHERE PLUMBING FIXTURES ARE TO BE REMOVED AND NOT REPLACED, CAP PLUMBING LINES IN WALL AND/OR BELOW FLOOR, SO THAT NO LINES REMAIN EXPOSED.
- E WHERE VENTS, HOODS, FANS, DUCTWORK, ETC. TO BE REMOVED PENETRATES THE ROOF, FLASH, PATCH AND REPAIR ROOFING TO MATCH EXISTING.
- F WHERE EXTERIOR FIXTURES, WALLS, SOFFITS, FRAMES, ETC. ARE REMOVED FROM EXISTING STUCCO/PLASTER FINISH, EXTERIOR PLASTER SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING.
- G SEE MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS FOR FURTHER DEMOLITION OF THOSE TRADES.

DEMOLITION PLAN NOTES

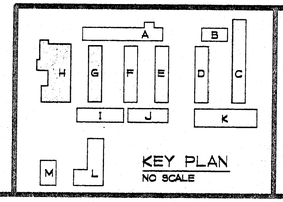
1. REMOVE EXISTING NON-BEARING PARTITION - PLASTER FINISH OVER 2x4'S OR 2x6'S AT 16" OC. REMOVE CONCRETE CURB AT SILL WHERE OCCURS.
2. REMOVE EXISTING TOILET PARTITIONS, ANCHORS, AND HARDWARE.
3. REMOVE EXISTING 6' HIGH CER. TILE WAINSCOT, INCLUDING MORTAR BED, LATH, AND FELT. REMOVE ALL INTERIOR WALL AND CEILING PLASTER. EXISTING WOOD SHEATHING TO REMAIN.
4. REMOVE EXISTING CER. TILE FLOOR AND MORTAR BED. REMOVE EXISTING CONCRETE SLAB BELOW.
5. REMOVE EXISTING PLUMBING FIXTURES - SEE PLUMBING PLAN.
6. REMOVE EXISTING THRESHOLD
7. REMOVE EXISTING DOOR AND FRAME . . SEE TYP. NOTE B.
8. REMOVE EXISTING FOOD SERVICE LINE
9. REMOVE EXISTING CASEWORK/SHELVES.
10. REMOVE EXISTING CHALKBOARDS AND TACKBOARDS
11. REMOVE EXISTING WOOD OR RUBBER BASEBOARD.
12. REMOVE EXISTING CONCRETE LOCKER BASE.
13. REMOVE EXISTING UNIT CONVECTOR. SEE MECHANICAL PLAN.
14. REMOVE EXISTING FAN COIL UNIT AND ALL ASSOCIATED DUCTS, GRILLS, ETC. CONNECTED WITH THIS UNIT.
15. REMOVE EXISTING FINISH CEILING AND BACKING FROM THIS SPACE.
16. REMOVE EXISTING DRAPES, VALENCE, BLINDS, HARDWARE AND COMPONENTS.
17. REMOVE EXSTING DISHWASHER AND DISHWASH LINE EQUIPMENT
18. REMOVE EXISTING EXTERIOR PLASTER AS REQ'D FOR NEW INTERIOR FINISH.
19. REMOVE EXISTING EXTERIOR PLASTER SOFFIT.
20. REMOVE EXISTING DRINKING FOUNTAIN AND EXTERIOR CERAMIC TILE WAINSCOT. SEE EXTERIOR ELEVATIONS FOR EXTENT.
21. REMOVE EXSTG WINDOW(S). EXSTG WOOD HEAD/SILL/JAMB TO REMAIN. (ALT. BID)
22. SAWCUT AND REMOVE EXSTG CONC. SLAB AS REQ'D FOR NEW PLUMBING WORK.
23. DISCONNECT AND REMOVE EXISTING SPACE HEATER. SEE AL3D MECHANICAL PLAN.
24. REMOVE EXISTING TACKABLE AND ACOUSTICAL WALL COVERINGS.
25. REMOVE EXISTING SIGNAL BOX/INTERCOM AND SYSTEM.
26. SAW CUT AND REMOVE STRIP OF EXISTING CONCRETE SIDEWALK AND EXISTING CONCRETE LOCKER BASE WHERE OCCURS.
27. REMOVE EXISTING WALL FOLD TABLE AND ALL HARDWARE AND COMPONENTS
28. EXISTING KITCHEN EQUIPMENT TO BE RELOCATED DURING CONSTRUCTION. REPLACE AFTER COMPLETION OF WORK. PROVIDE ALL FINISH HOOKUPS.
29. REMOVE EXISTING FOOD SERVICE LINE.
30. REMOVE EXISTING DISHWASHER AND DISHWASH LINE.
31. REMOVE ALL INTERIOR PLASTER, LATH, AND SCREEDS. EXISTING WOOD SHEATHING TO REMAIN.
32. EXISTING SHEAR PANEL (DASHED) TO REMAIN

BUILDING MATERIALS CONTAINING LEAD

NOTE	ITEM	REMOVAL		NOTES
LG1	CERAMIC TILE	YES		
LG2	PAINT ON WOOD DOOR JAMBS	YES		REMOVE ENTIRE WOOD FRAME
LG3	PAINT ON WOOD DOOR JAMBS	YES		REMOVE ENTIRE WOOD FRAME
LG4	PAINT ON WOOD DOOR JAMBS	YES		REMOVE ENTIRE WOOD FRAME
LG5	PAINT ON EXTERIOR WOOD SILL		NO	

BUILDING MATERIALS CONTAINING ASBESTOS

NOTE	ITEM	REMOVAL		NOTES
AB1	VINYL ASBESTOS TILE AND MASTIC	YES		REMOVE ALL



KEY PLAN
NO SCALE

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8/31/1999 STATE OF CALIFORNIA

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JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

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PROJECT 92043-02

DRAWN JSG

DATE 5-20-1998

REVISIONS
MARCH 15, 1998
1 AUG. 4, 1998
2 MAY 7, 1999

GROTH ARCHITECTS

SHEET TITLE
BUILDINGS 'G' & 'H' DEMOLITION PLANS

D-4

SOILS

1. A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED FOR THIS PROJECT. A GEOTECHNIAL REPORT IS NOT AVAILABLE.
2. PROVIDE NOT LESS THAN THE FOLLOWING MAXIMUM DENSITY OF SOIL MATERIAL COMPACTEED AT OPTIMUM MOISTURE CONTENT FOR THE ACTUAL DENSITY OF EACH LAYER OF SOIL MATERIAL IN PLACE:

SUBGRADE	COMPACTION
A. UNDER STRUCTURE, UNDER BUILDING SLAB, AND IN TRENCHES UNDER PIPES BENEATH SLAB AND WITHIN FIVE FEET OF STRUCTURES	95%
B. UNDER SIDEWALKS, PAVING, AND MISC. SLABS	90%
C. AREAS WITH VEGETATIVE OR GRAVEL COVER	85%

3. DESIGN BEARING CAPACITY OF NATIVE SOIL IS 1000 LBS./SQUARE FOOT
   SOILS EXPANSION INDEX IS UNKNOWN
   SOILS CLASSIFICATION IS SILTY SAND
4. NO BACKFILLING SHALL OCCUR PRIOR TO INSPECTION.
5. BACKFILL MATERIAL REQUIRES THE APPROVAL OF THE ARCHITECT.
6. SOIL MATERIALS ABOVE OPTIMUM MOISTURE LEVEL SHALL NOT BE USED FOR BACKFILLING.

CONCRETE NOTES

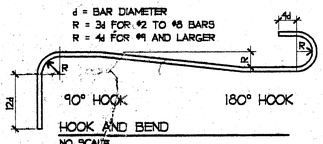
1. CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTHS:

FOOTINGS:	3000 PSI
SLABS ON GRADE	3000 PSI
WALKS AND RAMPS	3000 PSI
DESIGN STRENGTH, ALL	2000 PSI

2. RECOMPACT SOIL A MINIMUM OF 6" DEPTH PRIOR TO PLACING CONCRETE.
3. CLAYEY SOILS SHALL NOT BE ALLOWED TO DRY BEFORE PLACING CONCRETE. THEY SHALL BE KEPT IN A VERY MOIST CONDITION (TWO PERCENT ABOVE OPTIMUM MOISTURE CONTENT) TO A DEPTH OF 12 INCHES BELOW FOOTINGS AND SLABS.
4. INTERIOR CONCRETE SLABS ON GRADE SHALL BE PLACED ATOP A 2" THICK LAYER OF CLEAN SAND AND UNDERLAIN BY A MEMBRANE MOISTURE BARRIER. MEMBRANE SHALL BE INSTALLED AT ALL FOUNDATION WALLS SEPARATING INTERIOR SPACE FROM EARTH.
5. VERIFY AND DOUBLECHECK ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY ERRORS OR INCONSISTANCIES PRIOR TO PLACING FOUNDATION.
6. SEE "STEEL REINFORCING" NOTES.
7. ALL HOLD DOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
8. VERIFY LOCATION OF ALL SLEEVES, OPENINGS, BLOCKOUTS, OR SLAB DEPRESSIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL REQUIREMENTS, AND WITH APPROPRIATE SUBCONTRACTORS PRIOR TO POURING CONCRETE.
9. ALL WOOD FORMS USED FOR PLACING CONCRETE SHALL BE REMOVED. BEFORE THE BUILDING IS OCCUPIED.
10. ALL SLABS SHALL BE POURED LEVEL AND TRUE (UNLESS NOTED WITH SLOPE) AND TROWLED TO A SMOOTH FINISH.

REINFORCING STEEL

1. BAR REINFORCEMENT SHALL BE GRADE 40 FOR #4 BARS AND SMALLER, GRADE 60 FOR #5 BARS AND LARGER, PER ASTM A615.
2. REINFORCING STEEL SHALL BE SECURELY SUPPORTED IN POSITION IN ACCORDANCE WITH "THE RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS", PER CSI, LATEST EDITION.
3. LAP SPLICE REINFORCING BARS A MINIMUM OF 30 DIAMETERS, UNLESS NOTED OTHERWISE.
4. REINFORCING SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER:
   - CONCRETE AGAINST EARTH ____ 3"
   - CONCRETE _____ 2"
   - CMU AGAINST EARTH ____ 1-1/2"
   - CMU _____ 1"
5. TIE WIRES SHALL COMPLY WITH FEDERAL SPECIFICATION QQ-W-461 ANNEALED STEEL, BLACK, 16 GAUGE MINIMUM, COMPLYING WITH ASTM A82.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
7. DEVICES USED FOR SUPPORTING REINFORCEMENT:
   A. USE WIRE BAR TYPE SUPPORTS PER CRSI RECOMMENDATIONS.
   B. FOR SLABS ON GRADE, USE CONCRETE CHAIRS 2" HIGH.
   C. EXPOSED TO VIEW CONCRETE SURFACES WHERE LEGS OF SUPPORTS ARE IN CONTACT WITH FORMS, PROVIDE NON-CORROSIVE, GALVANIZED, OR PLASTIC PROTECTED LEGS OR CHAIRS.
   D. DO NOT USE WOOD, MASONRY, ALUMINUM, OR OTHER NON-COMPLYING MATERIAL.



HOOK AND BEND
NO SCALE

WELDING

1. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS).
2. WELDING SHALL BE PERFORMED BY WELDERS HAVING A CURRENT CERTIFICATE DS WELDING OF REINFORCING STEEL IN ACCORDANCE WITH UBC STANDARDS.
3. WELDER QUALIFICATIONS, BOTH SHOP AND FIELD, SHALL BE SUBMITTED TO THE INSPECTOR AND THE ENGINEER OR ARCHITECT PRIOR TO START OF WORK.

LUMBER

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR (D.F.), GRADE MARKED BY A RECOGNIZED GRADING AGENCY (W.W.P.A.) UNLESS NOTED OTHERWISE.
2. WOOD GRADES SHALL BE MINIMUM (UNLESS NOTED OTHERWISE):
   - JOISTS AND RAFTERS _____ DOUGLAS FIR GRADE 1
   - BEAMS, HEADERS, AND STRINGERS _____ DOUGLAS FIR GRADE 1
   - POSTS AND TIMBERS (BEARING) _____ DOUGLAS FIR GRADE 1
   - VERTICAL STUDS _____ DOUGLAS FIR GRADE 1
   - BLOCKING, SLEEPERS, ETC. _____ DOUGLAS FIR GRADE 2
3. ALL LUMBER, PLYWOOD, PARTICLEBOARD, END-JOINTED LUMBER, FIBERBOARD, PILES AND POLES, SHALL CONFORM TO THE APPLICABLE STANDARDS OR GRADING RULES SPECIFIED BY THE UBC, AND SHALL BE BRANDED AND IDENTIFIED BY THE GRADE MARK, OR A CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.
4. ALL SILL PLATES RESTING ON CONCRETE OR MASONRY IN CONTACT WITH THE EARTH SHALL BE PRESSURE-PRESERVATIVE TREATED.
5. ALL FIELD CUTS OF PRESSURE-PRESERVATIVE TREATED LUMBER SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA STANDARD M4. AVOID FIELD CUTTING WHENEVER POSSIBLE.
6. WOOD EMBEDDED IN THE GROUND OR IN DIRECT CONTACT WITH THE EARTH, AND USED FOR SUPPORT OF PERMANENT STRUCTURES SHALL BE PRESSURE-TREATED WOOD. POSTS, PILES, SAWN TIMBER COLUMNS, OR OTHER LUMBER IN DIRECT CONTACT WITH OR EMBEDDED IN CONCRETE OR MASONRY, OR EXPOSED TO THE WEATHER, SHALL BE PRESSURE-TREATED WOOD.
7. ALL PLYWOOD SHEATHING SHALL CONFORM TO U.S. PRODUCTS STANDARD PS-1-83.

WOOD FASTENERS

1. ANCHOR CARPENTRY WORK TO METAL, MASONRY, OR CONCRETE WHERE REQUIRED.
2. MACHINE BOLTING: PREBORE HOLES IN WOOD 1/16 INCH LARGER IN DIAMETER THAN THE BOLTS SPECIFIED. DRILL STRAIGHT AND TRUE FROM ONE SIDE ONLY. USE ONLY STAINLESS STEEL BOLTS AT EXTERIOR OR WET AREAS.
3. ALL BOLT HEADS AND NUTS SHALL NOT BEAR DIRECTLY ON WOOD. USE METAL SIDE PLATES OR PROVIDE WASHERS UNDER BOLT HEADS. USE WASHERS UNDER ALL NUTS.
4. LAG BOLTING: PREBORE HOLES SAME DIAMETER AS ROOT OF THREADS, ENLARGING HOLES TO SHANK. WHERE HEADS ARE COUNTERSUNK, SINK BOLT NOT MORE THAN 1/16 INCH BELOW PLANE OF FACE, UNLESS NOTED OTHERWISE. TURN (SCREW), DO NOT DRIVE LAG BOLTS. USE ONLY STAINLESS STEEL BOLTS AT EXTERIOR OR WET AREAS.
5. NAILING: USE COMMON NAILS UNLESS NOTED OTHERWISE. COMPLY WITH FED SPEC FF-N-1. USE GALVANIZED FOR EXTERIOR AND WET LOCATIONS. PROVIDE PENETRATION INTO THE PIECE RECEIVNG THE POINT OF NOT LESS THAN 1/2 THE LENGTH OF THE NAIL, HOWEVER, 16D NAILS MAY BE USED TO CONNECT TWO PIECES OF 2" NOMINAL (1-1/2") THICKNESS.
6. MINIMUM NAILING SHALL BE IN ACCORDANCE WITH UBC TABLE 25-Q, UNLESS NOTED OTHERWISE. SEE DRAWINGS FOR MORE STRINGENT NAILING REQUIREMENTS.
7. PREDRILL HOLES FOR SPIKES PER UBC STANDARDS.
8. SCREWS: TURN (SCREW), DO NOT DRIVE SCREWS. REPLACE MEMBERS SPLIT BY SCREW PENETRATION. PREBORE HOLES IF NECESSARY PER UBC STANDARDS.
   USE TYPE W BUGLE HEAD SCREWS FOR ATTACHMENT WOOD TO WOOD;
   USE TYPE S-12, BUGLE HEAD PILOT POINT ATTACHMENT PLYWOOD TO STEEL FRAMING;
   USE TYPE S-12, TRIM HEAD ATTACHMENT WOOD TO STEEL FRAMING;
   USE TYPE S, OVAL HEAD ATTACHMENT CABINETRY TO STEEL FRAMING.
9. ROUGH HARDWARE SHALL BE AS REQUIRED FOR PROPER EXECUTION OF THE WORK. COMPLY WITH ASTM A7 OR ASTM A36 UNLESS NOTED OTHERWISE. USE GALVANIZED AT EXTERIOR AND WET LOCATIONS.
10. METAL WOOD CONNECTORS, INCLUDING STRAPS, HANGERS, CLIPS, TIES, CAPS, BASES, ETC. SHALL BE ICBO APPROVED, AND INSTALLED PER THE ICBO EVALUATION REPORT FINDINGS.

MACHINE APPLIED NAILING

1. MACHINE APPLIED NAILING IS NOT APPROVED FOR THIS PROJECT.

WOOD FRAMING NOTES

1. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED, AND BRACED SO AS TO DEVELOP THE STRENGTH AND RIGIDITY NECESSARY FOR THE PURPOSES FOR WHICH THEY ARE USED.
2. PLYWOOD FLOOR SHEATHING SHALL BE GLUED TO THE FLOOR FRAMING WITH ONE 1/4" DIAMETER CONTINUOUS BEAD OF AN ADHESIVE CONFORMING TO UBC STANDARD 25-19. ⚠1
3. GLUE AND ADHESIVES FOR EXTERIOR WOOD USE SHALL BE WATERPROOF, FOR INTERIOR WOOD USE SHALL BE WATER RESISTANT.
4. SILL PLATES SHALL BE A MIN. OF 6" ABOVE FINISH GRADE.
5. NAILING SHALL COMPLY WITH TABLE 25-Q.
6. WOOD ANCHORS, STRAPS, JOIST HANGERS, AND OTHER FRAMING CONNECTORS SHALL BE HOT-DIPPED GALVANIZED AS MANUFACTURED BY SIMPSON, SILVER, HARLAN, OR EQUAL, AND ICBO APPROVED.
7. ROUGH HARDWARE SHALL BE AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK, COMPLY WITH ASTM A7 OR ASTM A36, UNLESS NOTED OTHERWISE.
8. NAILS SHALL BE COMMON, UNLESS NOTED OTHERWISE, COMPLY WITH FED SPEC FF-N-1. USE GALVANIZED FOR EXTERIOR LOCATIONS EXPOSED TO THE WEATHER.
9. LAG BOLTS SHALL COMPLY WITH FED SPEC FF-B-561. PRE-BORE HOLES SAME DIAMETER AS ROOT OF THREADS. SCREW, DO NOT DRIVE, LAG BOLTS.
10. MACHINE BOLTS SHALL COMPLY WITH ASTM A307. DRILL HOLES 1/16 INCH LARGER IN DIAMETER THAN BOLT NOMINAL DIAMETER. USE WASHERS UNDER ALL BOLT HEADS AND NUTS THAT ARE OTHERWISE IN DIRECT CONTACT WITH WOOD. ⚠1
11. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL NON-BEARING WALLS.
12. PREPARATION, FABRICATION, AND INSTALLATION OF WOOD MEMBERS AND THEIR FASTENINGS SHALL CONFORM TO ACCEPTED ENGINEERING PRACTICES, AND TO THE REQUIREMENTS OF THE

STRUCTURAL STEEL

1. PROVIDE ALL STRUCTURAL STEEL SHAPES, ANGLES, CLIPS, CHANNELS, PLATES, TUBES, DOWELS, BARS, ETC. AS SHOWN ON THE DRAWINGS FOR A COMPLETE INSTALLATION.
2. STORE IN A MANNER TO PREVENT CORROSION OR CONTAMINATION WITH DIRT, GREASE, AND OTHER COATINGS.
3. REFERENCES:
   THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. THE PUBLICATIONS ARE REFERRED TO IN TEXT BY THE BASIC DESIGNATION ONLY:
   1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), SECTIONS AS LISTED;
   2. AMERICAN WELDING SOCIETY (AWS), SECTIONS AS LISTED;
   3. FEDERAL SPECIFICATIONS (FS), SECTIONS AS LISTED.
4. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
5. FABRICATE WITH ACCURATE ANGLES AND SURFACES WHICH ARE TRUE TO THE REQUIRED LINES AND LEVELS, GRINDING WELDS SMOOTH AND FLUSH, FORMING EXPOSED CONNECTIONS WITH HAIRLINE JOINTS, AND USING CONCEALED FASTENERS WHEREVER POSSIBLE.
6. ALL WELDING SHALL COMPLY WITH AWS D1-1 FOR PROCEDURES, APPEARANCE, AND QUALITY OF WELDS. ALL WELDS SHALL BE DONE BY ELECTRIC ARC PROCESS USING APPROVED RODS AND PERFORMED BY CERTIFIED WELDERS. ALLFABRICATION AND WELDING SHALL BE PERFORMED IN THE SHOP OF AN APPROVED FABRICATOR. THE APPROVED FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORD WITH U.B.C. SECTION 1701.7. ALL FIELD WELDING REQUIRES CONTINUOUS SPECIAL INSPECTION AND ALL SHOP WELDING REQUIRES PERIODIC SPECIAL INSPECTION.
7. COMPLY WITH THE FOLLOWING:

STRUCTURAL STEEL	ASTM A36
SHEET STEEL (GALV.)	ASTM A526 AND ASTM A25, COATING G90
STEEL PLATE (SHAPES AND BARS)	ASTM A36
STEEL PLATE (TO BE FORMED)	ASTM A283, GRADE C.
STEEL PIPES	ASTM A53, TYPE E, GRADE B. GALV.
STEEL TUBING	ASTM A500, GRADE B

FASTENERS:
COMPLY WITH THE FOLLOWING, TO BE STAINLESS STEEL OR ZINC-COATED FOR ALL EXTERIOR USES EXCEPT WHERE NOTED BELOW:

BOLTS AND NUTS	ASTM A307, GRADE A
LAG BOLTS	SQUARE-HEADED PER FED SPEC FF-B-561
MACHINE SCREWS	CADMIUM-PLATED STEEL FED SPEC FF-S-111
PLAIN WASHERS	FED SPEC FF-W-92, ROUND, CARBON STEEL
LOCK WASHERS	FED SPEC FF-W-84, HELICAL SPRING TYPE
TOGGLE BOLTS	FED SPEC FF-B-588

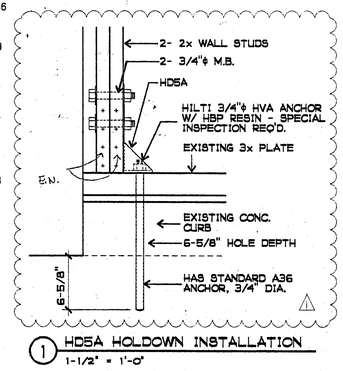
STEEL DIAMOND MESH:
FLATTENED DIAMOND MESH, CARBON STEEL ASTM A525, DIAMOND HEIGHT 1-3/8", DIAMOND LENGTH 3-1/4", OVERALL METAL THICKNESS 10 GA.

ELECTRODES FOR WELDING:
AWS CODE, USING AWS A5.1 E60XX OR E70XX ELECTRODES

CCR TITLE 24 PART 2
TABLE NO. 23A-I-Q - NAILING SCHEDULE

CONNECTION	NAILING[1]
1. Joists or rafters to sides of studs, 8-inch joist or less	3-16d
2. blocking between joists or rafters – to joists or rafters – toenails each side each end	2-10d
3. 1" x 6" subfloor to each joist, face nail	2-10d
4. Wider than 1" x 6" subfloor to each joist, face nail	3-10d
5. 2" subfloor to joist or girder, blind and face nail	2-16d
6. Sole plate to joist or blocking, typical face nail Sole plate to joist or blocking, at braced wall panels	16d at 16" oc 3 16d per 16"
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	3-16d, end nail
9. Double studs, face nail	16d at 16" oc
10. Doubled top plates, face nail Doubled top plates, lap splice	16d at 16" oc 12-16d
11. Blocking between joists or rafters to top plate, toenail	3-10d
12. Rim joist to top plate, toenail	10d at 6" oc
13. Top plates, laps and intersections, face nail	2-16d
14. Continuous header, two pieces	16d at 12" oc along ea. edge
15. Ceiling joists to plate, toenail	3-10d
16. Continuous header to stud, toenail	4-10d
17. Ceiling joists, laps over partitions, face nail	3-16d
18. Ceiling joists to parallel rafters, face nail	3-16d
19. Rafter to bearings, toenail each side	2-10d
20. 1" brace to each stud and plate, face nail	2-10d
21. 1" x 8" sheathing or less to each bearing, face nail	2-10d
22. Wider then 1" x 8" sheathing to each bearing, face nail	3-10d
23. Built-up corner studs	16d at 16" oc
24. Built-up girder and beams	20d at 24" oc at top and bottom and staggered 2-20d at ends and at each splice
25. 2" planks	2-16d at each bearing
26. Plywood and particleboard:[3] Subfloor, roof and wall sheathing (to framing): 1/2" and less 19/32" – 3/4" 7/8" – 1" 1-1/8" – 1-1/4" Combination Subfloor–underlayment (to framing): 3/4" and less 7/8" – 1" 1-1/8" – 1-1/4"	 8d[1] 10d[1] 10d[1] 16d[1] 8d[2] 10d[1] 16d[1]
27. Panel Siding (to framing): 1/2" and less 5/8"	 8d[4] 10d[4]
28. Fiberboard Sheathing:[5] 1/2" 25/32"	 8d[1] 10d[1]
29. Interior paneling 1/4" 3/8"	 5d[6] 8d[7]

1 Common.
2 Deformed shank.
3 Nails spaced at 6" on center at edges, 12" at intermediate supports except 6 inches at all supports where spans are 48 inches or more. For nailing plywood diaphragms and shear walls, refer to Section 2513(c). Nails for wall sheathing mat be common, box, or casing.
4 Corrosion-resistant siding or casing nails conforming to the requirements of Section 2516(j)1.
5 Fasteners spaced 3" on center at exterior edges and 6" on center at intermediate supports
6 Panel supports at 16 inches oc. Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports.
7 Panel supports at 24 inches oc. Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports.



1 HD5A HOLDOWN INSTALLATION
1-1/2" = 1'-0"

CCR TITLE 24 PART 2
TABLE NO. 25A-G - SINGLE PLY GYPSUM WALLBOARD APPLIED PARALLEL (||) OR PERPENDICULAR (⊥) TO FRAMING MEMBERS

THICKNESS OF GYPSUM WALLBOARD	PLANE OF FRAMING SURFACE	MAXIMUM SPACING OF FRAMING MEMBER[1]	LONG DIMENSION OF GYP. BD. SHEETS IN RELATION TO DIRECTION OF FRAMING MEMBERS: PARALLEL	LONG DIMENSION OF GYP. BD. SHEETS IN RELATION TO DIRECTION OF FRAMING MEMBERS: PERPENDICULAR	MAXIMUM SPACING OF FASTENERS[1]: NAILS[3]	MAXIMUM SPACING OF FASTENERS[1]: SCREWS[4]	NAILS[2] TO WOOD
1/2"	HORIZ.	16"	P	P	7"	12"	NO. 13 GA., 1-3/8" LONG, 19/64" HEAD; 0.098" DIAM.; 1-1/4" LONG, ANNULAR RINGED; 5d, COOLER OR WALLBD[5] NAIL (0.086" DIAM., 1-5/8" LONG, 15/64" HEAD).
		16"	NP	P			
	VERT.	24"	P	P	8"	16"	
		24"	P	P		12"	
5/8"	HORIZ.	16"	P	P	7"	12"	NO. 13 GA., 1-5/8" LONG, 19/64" HEAD; 0.098" DIAM.; 1-3/8" LONG ANNULAR RINGED; 6d, COOLER OR WALLBD[5] NAIL (0.086" DIAM., 1-7/8" LONG, 1/4" HEAD).
		16"	NP	P			
	VERT.	24"	P	P	8"	16"	
		24"	P	P		12"	

NAIL OR SCREW FASTENING WITH ADHESIVES

					EDGES	END	FIELD	
1/2" OR 5/8"	HORI.	16"	P	P	16"	16"	24"	AS REQUIRED FOR 1/2" AND 5/8" GYPSUM WALLBOARD SEE ABOVE
		24"	NP	P	16"	24"	24"	
	VERT.	24"	P	P	16"	24"	NR	

P = PERMITTED NP = NOT PERMITTED NR = NOT REQUIRED
1. FOR FIRE RESISTIVE CONSTRUCTION, SEE FLOOR PLAN FOR SPECIFIC DETAILS.
2. WHERE THE METAL FRAMING HAS A CLINCHING DESIGN FORMED TO RECEIVE THE NAILS BY TWO EDGES OF METAL, THE NAILS SHALL BE NOT LESS THA WALLBOARD THICKNESS PLUS 5/8", AND SHALL HAVE RINGED SHANKS. WHERE THE METAL FRAMING HAS A NAILING GROOVE FORMED TO RECEIVE THE NAILS, THE NAILS SHALL HAVE BARBED SHANKS OR BE SO, NO. 13-1/2 GAUGE, 15/64-INCH HEAD FOR 1/2" GYPSUM WALLBOARD; 6D, NO. 13 GAUGE, 1-7/8 INCH LONG, 15/64 INCH HEAD FOR 5/8" GYPSUM WALLBOARD.
3. TWO NAILS SPACED 2 TO 2-1/2 INCHES APART MAY BE USED WHERE THE PAIRS ARE SPACED 12 INCHES ON CENTER EXCEPT AROUND THE PERIMETER OF THE SHEETS
4. SHALL BE LONG ENOUGH TO PENETRATE INTO WOOD FRAMING NOT LESS THAN 5/8" AND THROUGH METAL FRAMING NOT LASS THAN 1/4".
5. FOR PROPERTIES OF COOLER AND WALLBOARD NAILS, SEE SECTION 2340.1.2.

HD HOLDOWN SCHEDULE

NO.	A.B.ϕ	ANCHOR	EMBED	STUD	STUD BOLTS	LOAD 2000 PSI CONC.	NOTES
HD5A	3/4"	3/4"ϕ HVA W/ ~~HBP~~ RESIN ICBO REPORT #4016 ⚠1	6-5/8"	2- 2x6	(2) 3/4"ϕ	3468#	1, 2

1 2000 PSI CONCRETE
2 SPECIAL INSPECTION REQUIRED

SHEAR PANEL SCHEDULE

NO.	MATERIAL	NAILING	PANEL EDGES BLOCKED YES	PANEL EDGES BLOCKED NO	TOP PL SHEAR TRANSFER	SILL PL SHEAR TRANSFER	ANCHOR BOLTS AT FOUNDATION	YIELD
1	1/2" STRUCT II PLYWOOD ONE SIDE ONLY	6d NAILS AT 6" OC EDGES, 12" OC FIELD	X		A35 @ 16" OC	16d AT 4" OC	5/8"ϕ AT 24" OC EMBED 9"	260#/FT.
2	1/2" STRUCT II PLYWOOD ONE SIDE ONLY	10D NAILS AT 6" OC EDGES, 12" OC FIELD	X		A35 @ 12" OC	16d AT 4" OC	5/8"ϕ AT 24" OC EMBED 9"	310#/FT.
3	1/2" STRUCT II PLYWOOD ONE SIDE ONLY	8D NAILS AT 4" OC EDGES, 12" OC FIELD	X		A35 @ 10" OC	16d AT 3" OC	5/8"ϕ AT 24" OC EMBED 9"	360#/FT.
4	1/2" STRUCT II PLYWOOD ONE SIDE ONLY	6d NAILS AT 6" OC EDGES, 12" OC FIELD	X		A35 @ 16" OC	16d AT 5" OC	5/8"ϕ AT 32" OC EMBED 9"	220#/FT.

CONCRETE ANCHOR SCHEDULE

ANCHOR	DIAM.	EMBED.	TENSION	SHEAR	I.C.B.O. #	NOTES
HILTI DS DOME HEAD NAIL	.177"	1-7/16"	120#	200#	2388	2
HILTI W10 3/8-16 THREADED STUD	.205"	1-1/4"	176#	312#	2388	2
HILTI KWIK-BOLT II	3/8"	1-5/8"	400#	688#	4627	*1, 3
HILTI KWIK-BOLT II	3/8"	2-1/2"	900#	688#	4627	*1, 3
HILTI KWIK-BOLT	5/8"	3-1/2"	576#	2056#	2156	3
HILTI HDI	1/4"	1"	128#	232#	2895	3, 4.
HILTI HDI	1/4"	1"	192#	348#	2895	3, 5, 6
HILTI HDI	3/8"	1-9/16"	176#	433#	2895	3, 4, 6.
HILTI HDI	3/8"	1-9/16"	316#	780#	2895	3, 5, 6.
HILTI HDI	3/8"	1-9/16"	316#	780#	2895	3, 5, 6.
RAMSET TRUBOLT T14138	1/4"	1-1/8"	156#	192#	2391	7
RAMSET TRUBOLT T38300	3/8"	1-1/2"	316#	492#	2391	8

*1. SPECIAL INSPECTION REQUIRED
2. MIN. EDGE DISTANCE = 3", MIN. SPACING 4", U.N.O.
3. MIN. EDGE DISTANCE = 6 DIAMETERS, MIN. SPACING = 12 DIAMETERS, U.N.O.
4. 2" OC. MIN. SPACING.
5. 2-1/2" OC MIN. SPACING.
6. USE ASTM A307 OR ASTM A325 BOLTS
7. MIN. EDGE DISTANCE 1-1/2", MIN. SPACING 4" OC., U.N.O.
8. MIN. EDGE DISTANCE 2-1/4", MIN. SPACING 5-1/4" OC., U.N.O.

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TESTING

1. TEST 50 PERCENT OF THE INSTALLED ANCHORS PER CCR PART 2, SECTION 1925A.3.5. THE TEST LOAD SHALL BE TWICE THE ESTABLISHED TENSION VALUE.
2. IF ANY ANCHOR SHOULD FIAL TESTING, TEST ALL OF THE ANCHORS OF THE SAME CATAGORY NOT PREVIOUSLY TESTED, UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME NORMAL TESTING FREQUENCY

PLANS CHECKED
PLBldg
AO FLS SS
DATE

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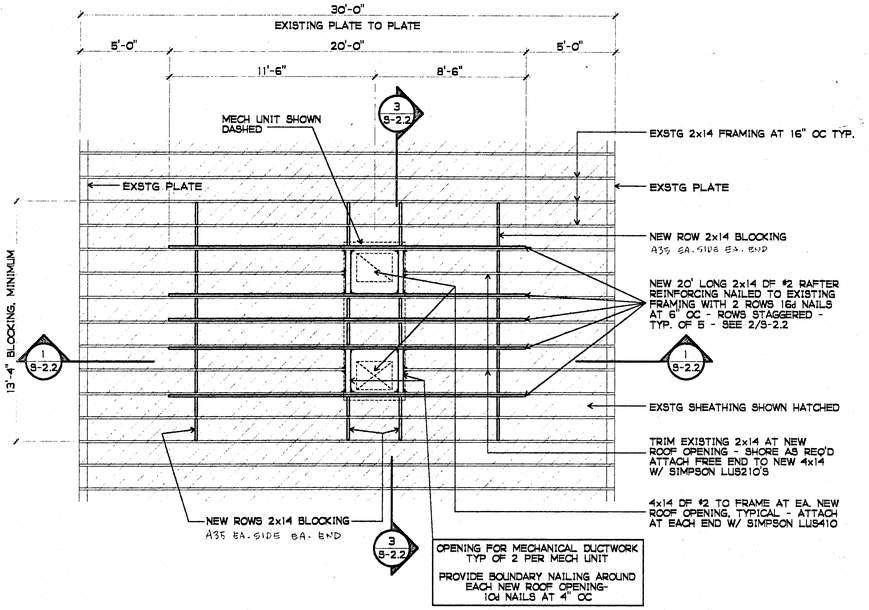
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS MARCH 15, 1998

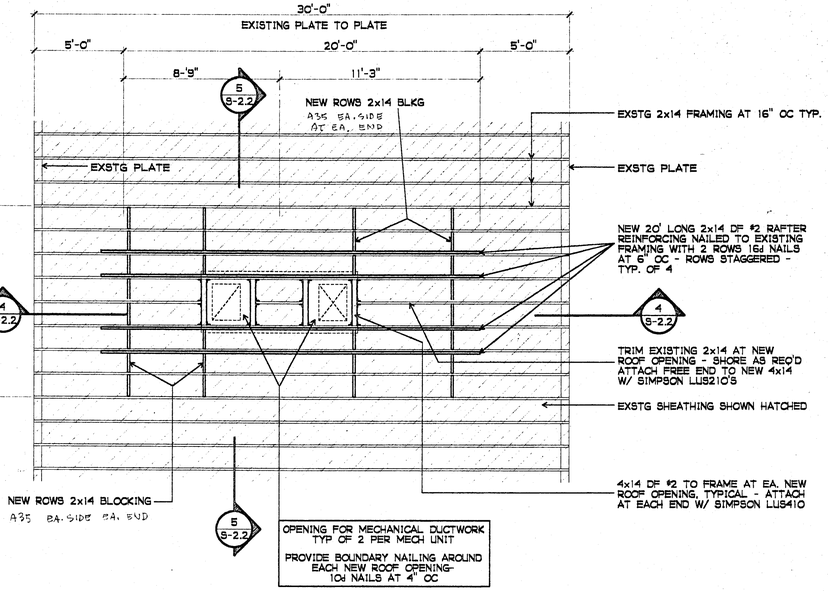
SHEET TITLE
STRUCTURAL NOTES AND SCHEDULES

S-1



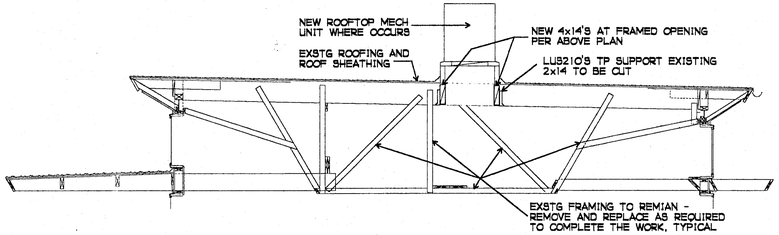
ROOF FRAMING REINFORCEMENT PLAN MECHANICAL UNITS HV-2, 3, 6, 7, 8, 9, AND 10

1/4" = 1'-0"



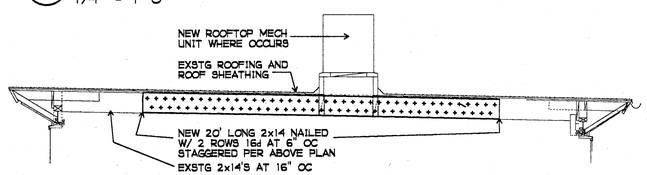
FRAM'G REINFORCEMENT PLAN ROOFTOP MECH. UNIT HV-4

1/4" = 1'-0"



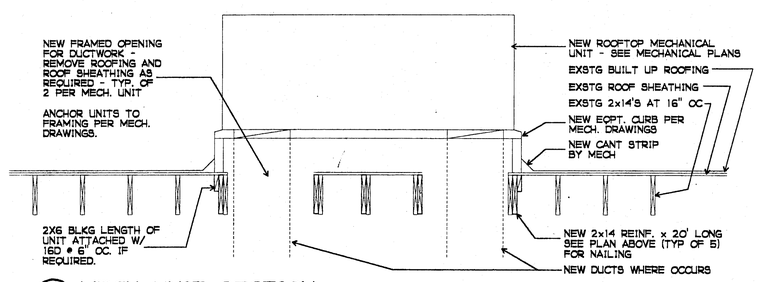
1 MECH UNIT SECTION

1/4" = 1'-0"



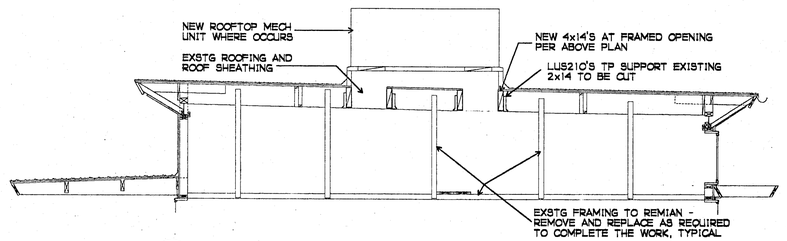
2 MECH UNIT SECTION

1/4" = 1'-0"



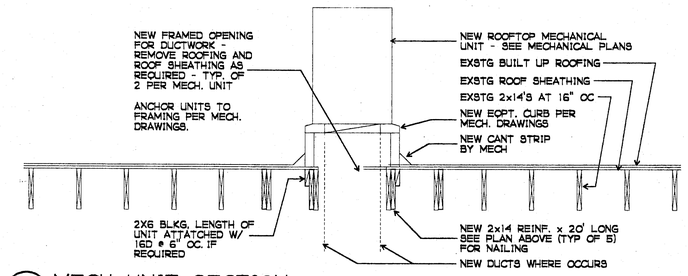
3 MECH UNIT SECTION

1/2" = 1'-0"



4 MECH UNIT SECTION

1/4" = 1'-0"



5 MECH UNIT SECTION

1/2" = 1'-0"

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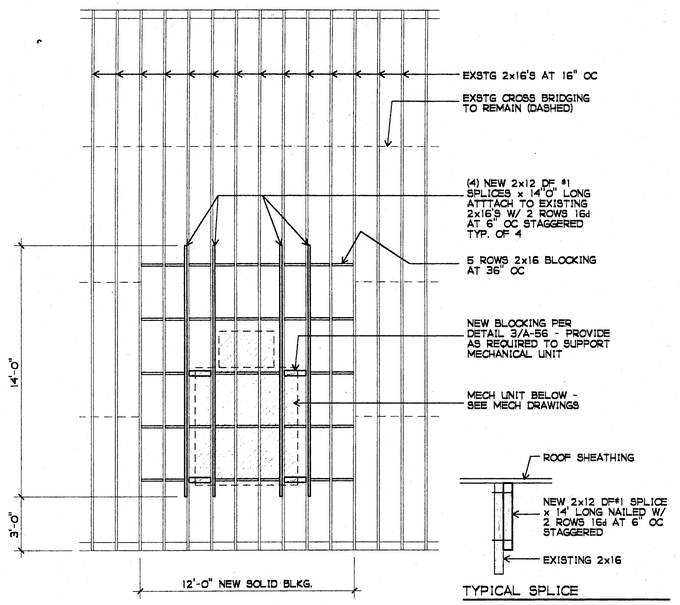
DRAWN JSG
DATE 5-20-1994
REVISIONS MARCH 15, 1998

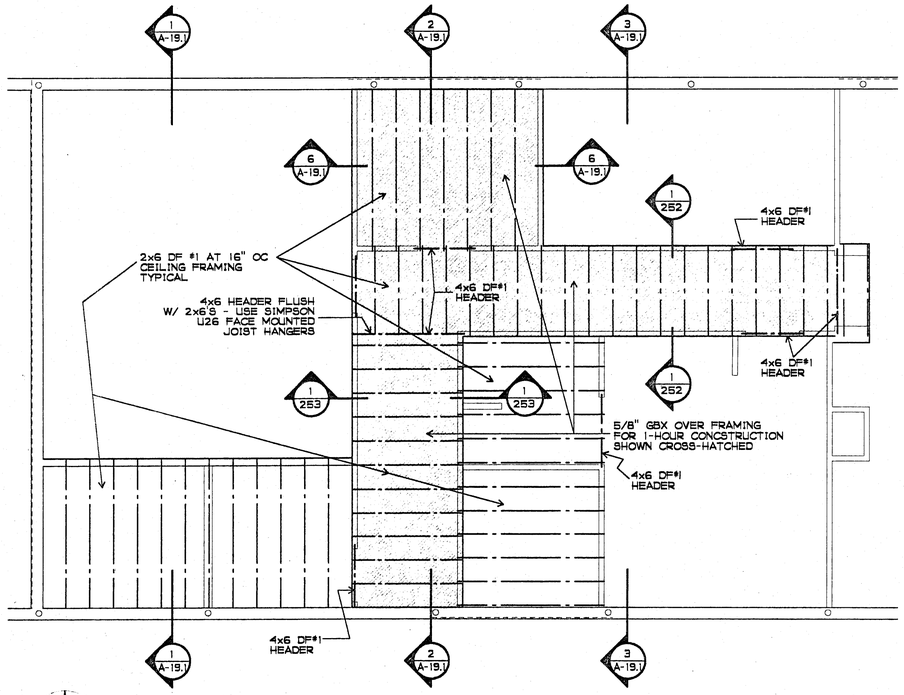
STATE OF REGISTRATION OF ARCHITECTS
APPROVED APR 01 1999
AC FLS SS
DATE

SHEET TITLE
REINFORCEMENT FRAMING FOR ROOFTOP MECH. UNITS

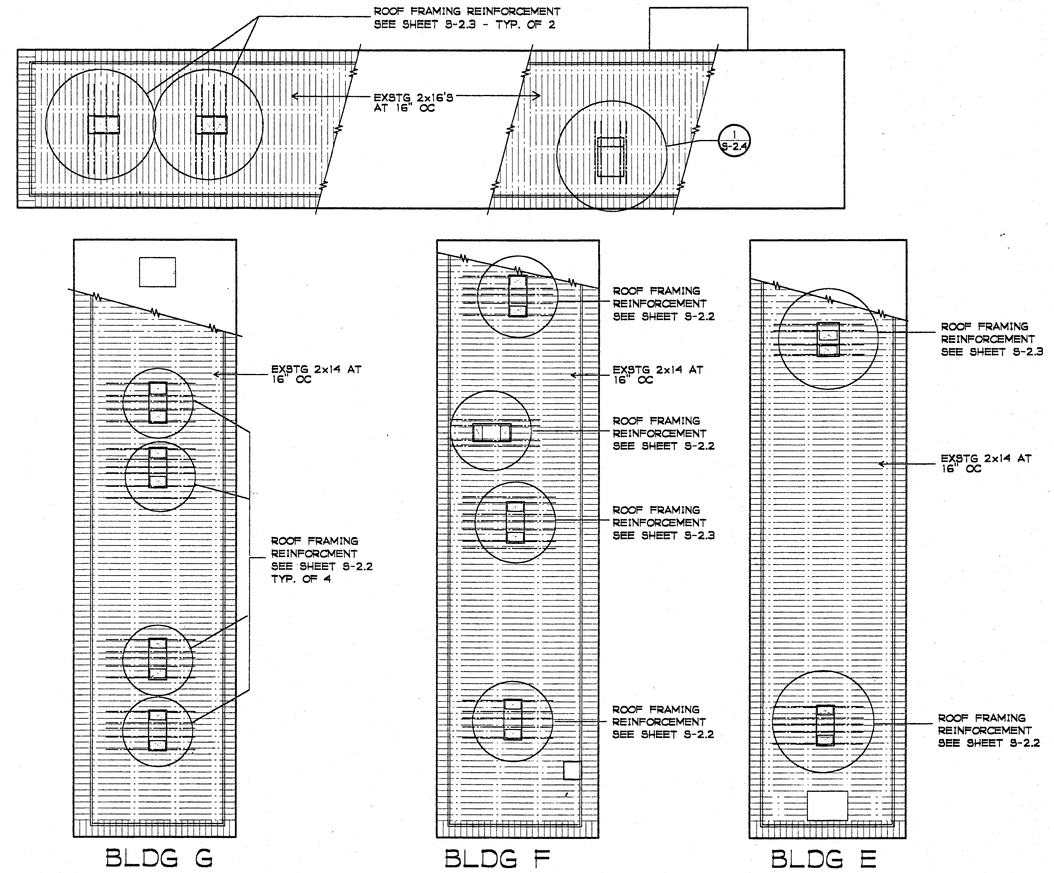
S-2.2



1 ROOF FRAMING REINFORCEMENT PLAN - MECH UNIT AH-1
1/4" = 1'-0"



BUILDNG A ADMINISTRATION CEILING FRAMING PLAN
1/4" = 1'-0"



ROOF FRAMING PLAN FOR MECHANICAL SYSTEMS
SCALE 1/16" = 1'-0"

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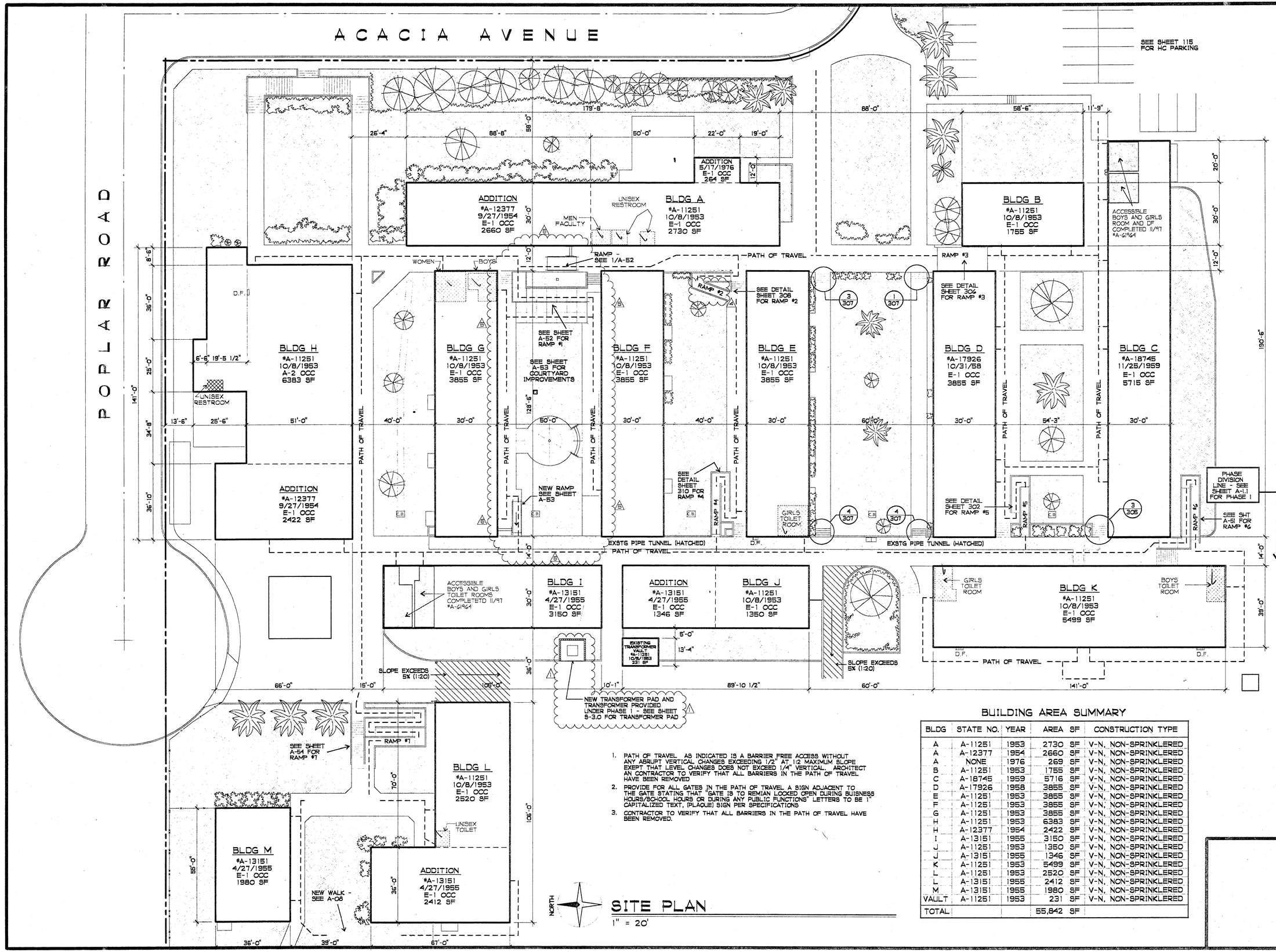
SHEET TITLE
ROOF AND CEILING FRAMING PLANS

S-2.4



1. PATH OF TRAVEL AS INDICATED IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE EXEPT THAT LEVEL CHANGES DOES NOT EXCEED 1/4" VERTICAL. ARCHITECT AN CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED
2. PROVIDE FOR ALL GATES IN THE PATH OF TRAVEL A SIGN ADJACENT TO THE GATE STATING THAT "GATE IS TO REMIAN LOCKED OPEN DURING BUISNESS HOURS/SCHOOL HOURS OR DURING ANY PUBLIC FUNCTIONS" LETTERS TO BE 1" CAPITALIZED TEXT, (PLAQUE) SIGN PER SPECIFICATIONS
3. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED.

SITE PLAN

1" = 20'

BUILDING AREA SUMMARY

BLDG	STATE NO.	YEAR	AREA SF	CONSTRUCTION TYPE
A	A-11251	1953	2730 SF	V-N, NON-SPRINKLERED
A	A-12377	1954	2660 SF	V-N, NON-SPRINKLERED
A	NONE	1976	269 SF	V-N, NON-SPRINKLERED
B	A-11251	1953	1755 SF	V-N, NON-SPRINKLERED
C	A-18745	1959	5716 SF	V-N, NON-SPRINKLERED
D	A-17926	1958	3855 SF	V-N, NON-SPRINKLERED
E	A-11251	1953	3855 SF	V-N, NON-SPRINKLERED
F	A-11251	1953	3855 SF	V-N, NON-SPRINKLERED
G	A-11251	1953	3855 SF	V-N, NON-SPRINKLERED
H	A-11251	1953	6383 SF	V-N, NON-SPRINKLERED
H	A-12377	1954	2422 SF	V-N, NON-SPRINKLERED
I	A-13151	1955	3150 SF	V-N, NON-SPRINKLERED
J	A-11251	1953	1350 SF	V-N, NON-SPRINKLERED
J	A-13151	1955	1346 SF	V-N, NON-SPRINKLERED
K	A-11251	1953	5499 SF	V-N, NON-SPRINKLERED
L	A-11251	1953	2520 SF	V-N, NON-SPRINKLERED
L	A-13151	1955	2412 SF	V-N, NON-SPRINKLERED
M	A-13151	1955	1980 SF	V-N, NON-SPRINKLERED
VAULT	A-11251	1953	231 SF	V-N, NON-SPRINKLERED
TOTAL			55,842 SF	

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DRAWN JSG

DATE 5-20-1998

REVISIONS
MARCH 15, 1998
1 AUG. 4, 1998
2 MAY 7, 1999

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SHEET TITLE
SITE PLAN

A-01

POPLAR ROAD

BUILDING H FLOOR PLAN

1/8" = 1'-0"

BUILDING G FLOOR PLAN

1/8" = 1'-0"

NORTH

BUILDING H SITEWORK
BUILDING G SITEWORK

BARRIER FREE PATH OF TRAVEL

OFFICE

KITCHEN

W.H.

HALL

JAN.

DRY STOR.

CAN WASH

MULTI-PURPOSE ROOM

STAGE

SEE SHEET A-06.1 FOR STAGE WORK

SEE SHEET A-44 THIS AREA

CLASSRM H-2

CLASSRM H-3

UTILITY

CLASSRM H-2 PERFORMING ARTS

1-HR RATED EXIT CORRIDOR

SEE LEFT FOR SPACE UNDER UTILITY . . .

CLASSRM G-1

CLASSRM G-3

CLASSRM G-4

BOYS

WOMEN

JAN

PATCH CONC. WALK AT REMOVED DRINKING FOUNTAIN

NEW CONCRETE SPLASH APRON. MATCH ELEVATION OF EXISTING AC - 3-1/2 THICK CONCRETE REINF. W/ #3 AT 18" OC EA. WAY

WHERE EXISTING AC SWALE IS REMOVED PROVIDE SCD. JOIN ADJACENT TURF ELEVATION. MAINTAIN EXISTING FLOW LINE

EXSTG CATCH BASIN

SEE SHEET A-44 FOR BLDG G TOILET ROOMS

NEW STEP HANDRAILS - SEE DETAIL SHEET A-52

TO RAMP - SEE 1/A-52

FOR COURTYARD SEE SHEET A-53

ENTIRE NORTH EXTERIOR WALL (84)

ENTIRE SOUTH EXTERIOR WALL (84)

ENTIRE WEST EXTERIOR WALL (84)

NEW 36" WIDE CONCRETE STRIP - SLOPE UP AT DOORS PER DETAIL 2/316 FOR ACCESSIBLE THRESHOLD (HATCHED) CONCRETE TO MATCH EXISTING PAVING

BARRIER FREE PATH OF TRAVEL SHOWN DASHED, TYP.

ALD ASSISTED LISTENING DEVICE:
OWNER SHALL PROVIDE RADIO FREQUENCY OPERATED ASSISTED LISTENING SYSTEM TO WORK WITH EXISTING AMPLIFIED SOUND SYSTEM. THE ASSISTED LISTENING SYSTEM SHALL PROVIDE FOUR PORTABLE DEVICES MADE AVAILABLE FOR PERSONS WHO ARE HEARING IMPAIRED. SYSTEM SHALL COMPLY WITH CBC TITLE 24, PART 2, SECTION 11048.

ALS SIGNAGE
PROVIDE TWO SIGNS IN COMPLIANCE WITH SECTION 10426 WITH TEXT: ASSISTED LISTENING SYSTEM AVAILABLE. SIGN SHALL BE MOUNTED 60" A.F.P. AND SHALL INCLUDE SYMBOL OF ACCESS FOR HEARING LOSS IN CONFORMANCE WITH CBC TITLE 24, PART 2, FIGURE 11B-24.

PLAN NOTES

(3) NEW DOOR AND FRAME. SEE DOOR SCHEDULE IN PROJECT MANUAL.
(7) PROVIDE NEW CASEWORK. SEE INTERIOR ELEVATIONS
(10) PROVIDE NEW WINDOW BLINDS FOR ALL WINDOWS FULL HEIGHT OF WINDOWS
(14) NEW LANDING AND STEPS.
(15) PROVIDE NEW HANDRAILS PER DTL SHT 300, SEE ALSO SHEET 217
(15) EXISTING ELEC PANEL TO REMAIN.
(17) NEW ELEC PANEL
(28) PROVIDE NEW 5/8" TYPE "X" GYP. BD. ALL WALLS. TAPE JOINTS AND PRIME ONLY BELOW NEW TACKBOARD FINISH. TAPE, TEXTURE, AND PAINT ALL EXPOSED AREAS.
(23) RECHARGE EXISTING FIRE EXTINGUISHER (WHERE OCCURS), OR PROVIDE NEW FIRE EXTINGUISHER "TYPE 1" AND MOUNTING BRACKET.
(24) NEW FIRE EXTINGUISHER TYPE 1 IN NEW RECESSED CABINET
(32) REPLACE EXISTING ACOUSTICAL TILE WITH NEW ACOUSTICAL TILE AT HIGH LEVEL, THIS WALL
(33) NEW ACOUSTICAL TILE AT HIGH LEVEL, THIS WALL
(34) EXISTING IN-WALL TABLE AND BENCH UNITS TO REMAIN, TYPICAL
(35) NEW SHELF AND CLOTHES ROD
(36) EXISTING STAGE CURTAIN TO REMAIN
(38) PATCH, REPAIR AND REFINISH CEILING WHERE EXISTING WALLS ARE REMOVED
(48) NEW DRINKING FOUNTAIN AND TILE WAINSCOT. SEE DETAIL SHEET 1550
(49) NEW LOCKERS, SEE DETAIL SHEETS 223 > 516
(72) REMOVE LOWER AREA OF EXISTING CASEWORK (SEE INT. ELEV.) NEW STEEL STUD PARTITION WITH GYP. BD. FLUSH WITH EXISTING PLASTER ABOVE.
(74) EXISTING CONCRETE CURB TO BE REMOVED (DASHED)
(78) NEW VERTICAL PLATFORM LIFT SEE SPECIFICATIONS
(80) NEW INTERIOR ONE HOUR PARTITION PER 1/196, PARTITION ATTACHMENT PER DTL. SHT. 206
(81) EXISTING INTERIOR ONE HOUR PARTITION PER DTL. 2/196.
(82) EXSTING EXTERIOR ONE HOUR PARTITION PER DT. 2/195
(83) EXISTING ONE HOUR ROOF/CEILING CONSTRUCTION PER 1/195, VERIFY IN FIELD. IF NOT CORRECT REMOVE CEILING FINISH, APPLY 1/2" GBX PER 1/195, TEXTURE AND PAINT
(84) PROVIDE R-13 BATT INSUL IN WALL TO HEIGHT OF CEILING INSULATION

FILE: A-06R.DC5
PLOT SCALE: 1/8"
DATE: 07/15/1998

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DATE 5-20-1998
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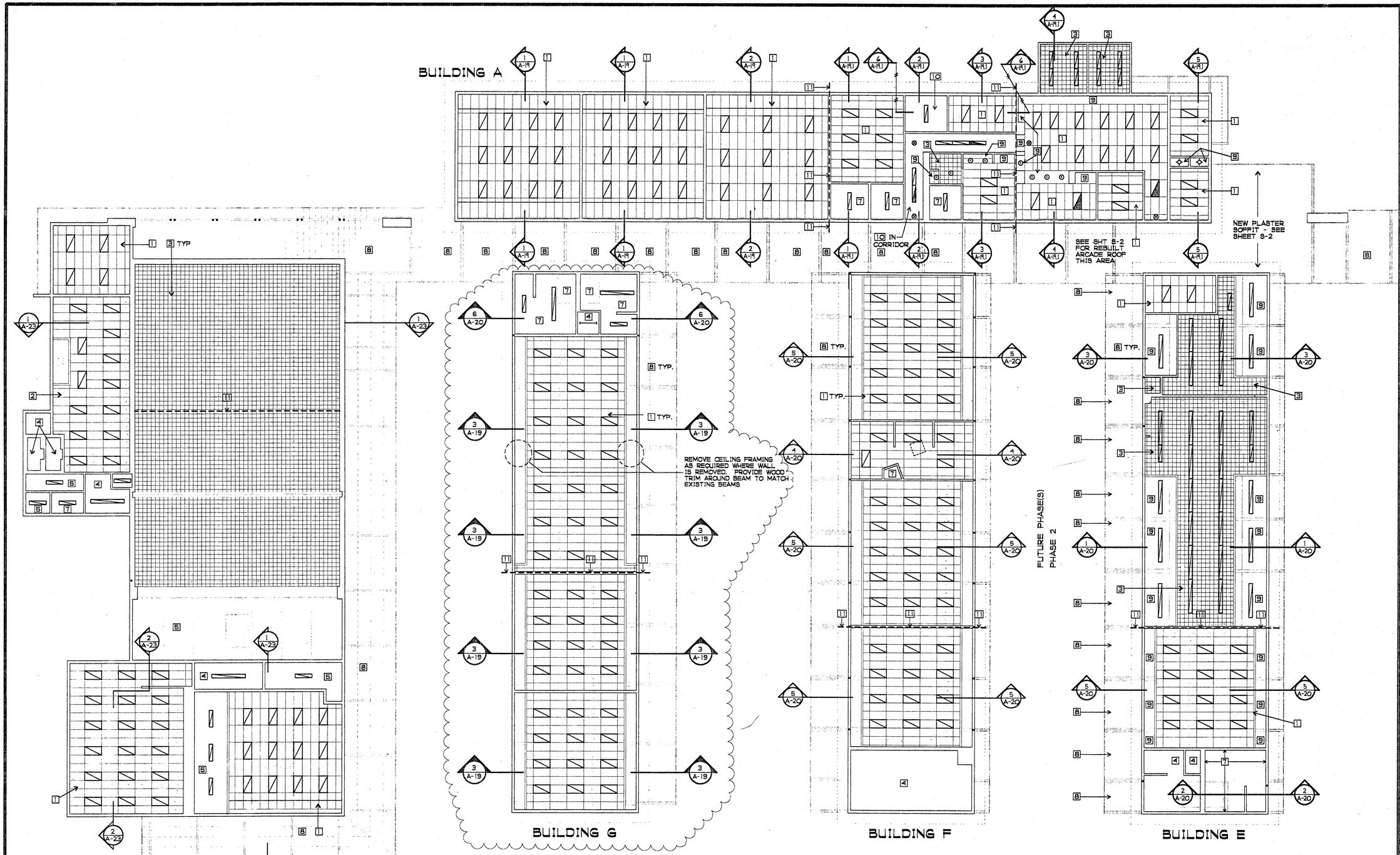
2 MAY 7, 1999

SHEET TITLE
BUILDINGS G AND H FLOOR PLANS

A-06

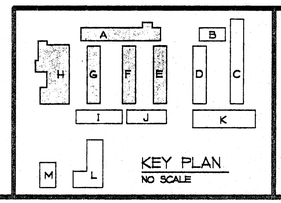
KEY PLAN
NO SCALE



BUILDINGS A, E, F, G, AND H REFLECTED CEILING PLANS

1/4" = 1'-0"

1. NEW SUSPENDED CEILING, A.T. TYPE 1 - SEE SHEET 208
2. NEW SUSPENDED CEILING, A.T. TYPE 2 - SEE SHEET 208
3. NEW CEILING, A.T. TYPE 3 OVER 1/2" OR 5/8" TYPE "X" GB
4. EXISTING CEILING TO REMAIN - NO WORK
5. EXISTING PLASTER CEILING TO REMAIN - REPAINT
6. NEW 1/2" GBX PER DETAIL 1/195 - PAINT AND TEXTURE
7. NEW 1/2" MR GBX CEILING - PAINT. AND TEXTURE
8. EXISTING WD. SOFFIT (ARCADE CEILING) - REPAINT
9. NEW 1/2" GBX CEILING/SOFFIT - PAINT AND TEXTURE
10. NEW 5/8" GBX CEILING - PAINT AND TEXTURE
11. NEW DRAFT STOP. 5/8" TYPE "X" GYP. BD. OVER 2x4 FRAMING AT 24" OC. GYP. BD. TO BE TAPED. EXTEND DRAFT STOP TO OVERHANGS OF CONCEALED SPACES PER CBC SECTION 708. STOP GAPS AND CRACKS PER SPEC SECTION 07270. (DASHED)



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GLENN F. GROTH
C-12939
REN. 8/31/1998
STATE OF CALIFORNIA

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JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

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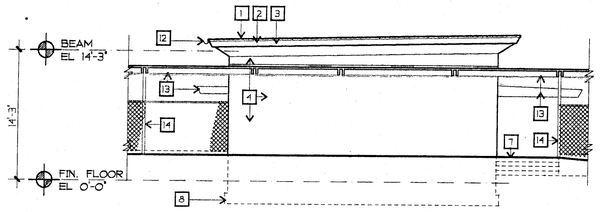
PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
5 MAY 7, 1999

GROTH ARCHITECTS

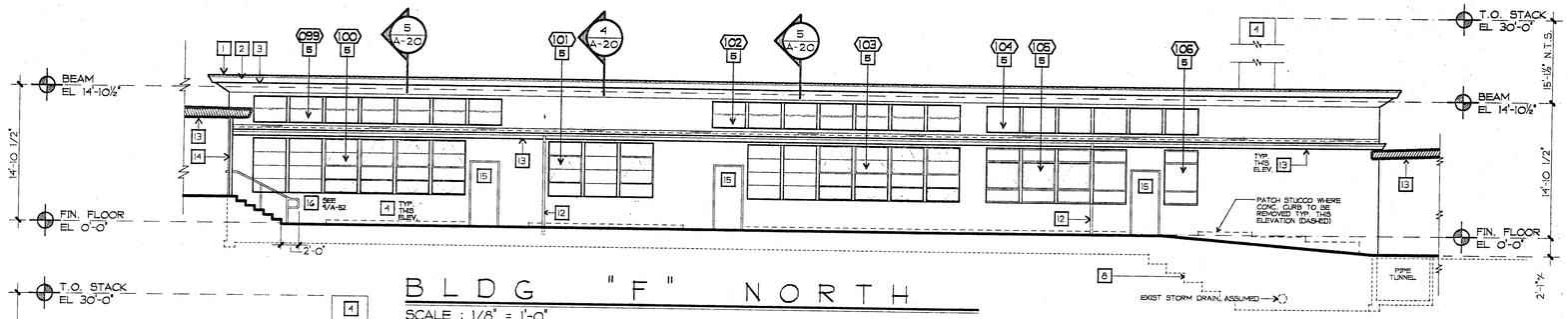
SHEET TITLE
BUILDINGS A, E, F, G, H REFLECTED CEILING PLAN

A-09



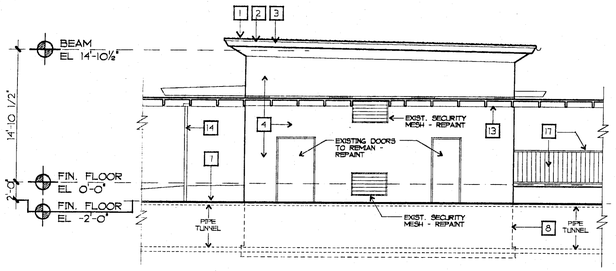
BLDG "F" EAST

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



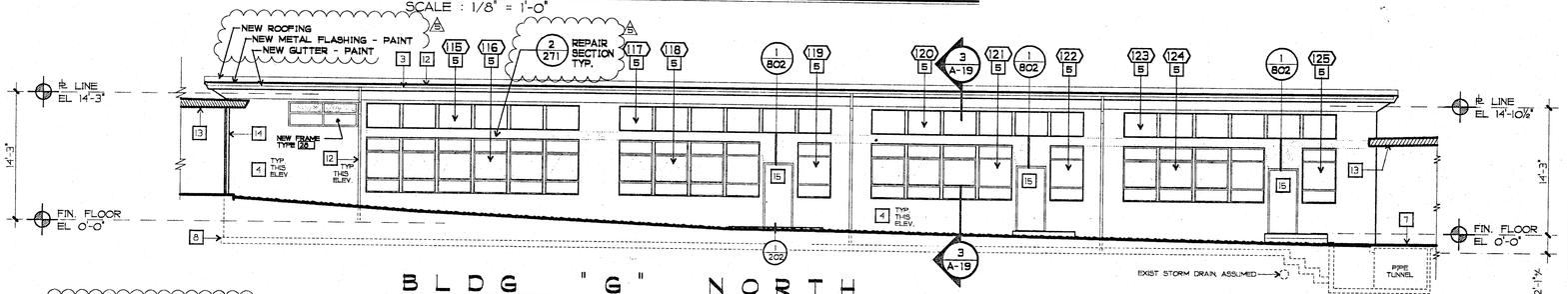
BLDG "F" NORTH

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



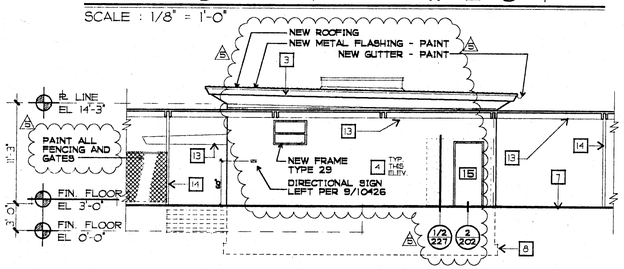
BLDG "F" WEST

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



BLGD "F" SOUTH

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

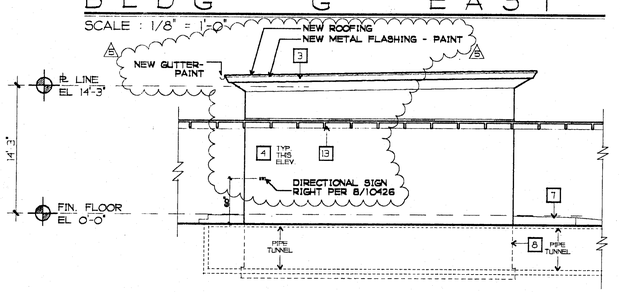


BLDG "G" EAST

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

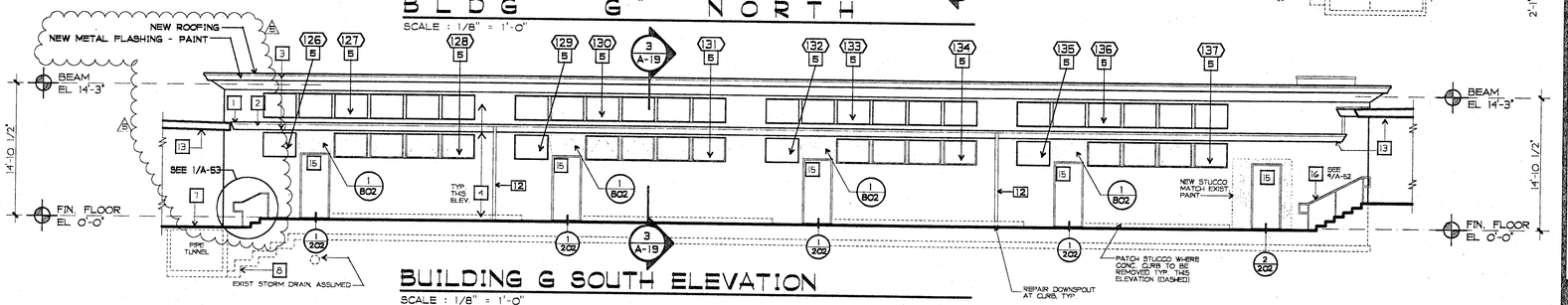
BLDG "G" NORTH

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



BLDG "G" WEST

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



BUILDING G SOUTH ELEVATION

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

EXTERIOR ELEVATION GENERAL NOTES

A. EXAMINE ALL EXISTING STUCCO. PATCH AT NEW DOORS AND FRAMES TO MATCH EXISTING. PATCH, AND REPAIR CRACKS, HOLES, AND DAMAGED AREAS, AND CLEAN ALL STUCCO AND PAINT / REPAINT ALL STUCCO

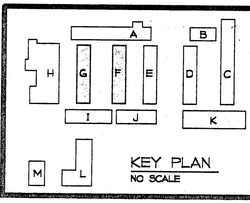
B. REPAINT ALL WOOD FASCIA BOARDS, FRAMES, AND TRIM

C. CLEAN AND REPAINT ALL EXTERIOR ALUMINUM LOUVERS. REMOVE LOUVERS FROM THEIR MOUNTING BRACKETS PRIOR TO REPAINTING, AND REINSTALL AFTER REPAINTING. PROVIDE NEW MOUNTING HARDWARE IF REQUIRED.

D. EXAMINE ALL EXISTING EXTERIOR BRICK MASONRY. SCRAPE CLEAN AND REPOINT BAD OR DAMAGED GROUT JOINTS TO MATCH EXISTING, LEAVING ALL IN NEW LOOKING CONDITION. CLEAN BRICK UNITS.

EXTERIOR ELEVATION SHEET NOTES

1. EXISTING ROOFING TO REMAIN.
2. EXISTING METAL FLASHING - REPAINT.
3. EXISTING WOOD FASCIA & TRIM - SEE GENERAL NOTES
4. EXISTING STUCCO - SEE GENERAL NOTES
5. NEW STEEL FRAME WINDOW(S)
6. EXISTING BRICK MASONRY - SEE GENERAL NOTES
7. EXISTING FINISH GRADE.
8. EXISTING FOOTING U/G SHOWN DASHED.
9. EXISTING WOOD DECORATIVE LOUVERS - REPAINT
10. EXISTING ALUM LOUVERS - REPAINT. SEE GENERAL NOTES
11. REMOVE EXISTING METAL FRAME WINDOWS. REPLACE W/ TRANSLUCENT PANELS AS SHOWN.
12. METAL DOWNSPOUTS AND GUTTERS - PAINT.
13. EXISTING COVERED WALKWAY - PAINT ALL EXPOSED WOOD FASCIA, FRAMING, DECKING, ETC.
14. EXISTING STEEL COLUMN(S) - REPAINT.
15. NEW DOOR(S) & FRAME(S) TO BE PAINTED. SEE DETAILS OF INSTALLATION. PROVIDE NEW STUCCO PATCH AROUND DEMO'D PORTION OF OPENING.
16. NEW METAL RAILINGS - PAINT.
17. EXISTING METAL RAILINGS, FENCING - REPAINT.
18. NEW STUCCO THIS AREA - PAINT



KEY PLAN
NO SCALE

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DRAWN JSG

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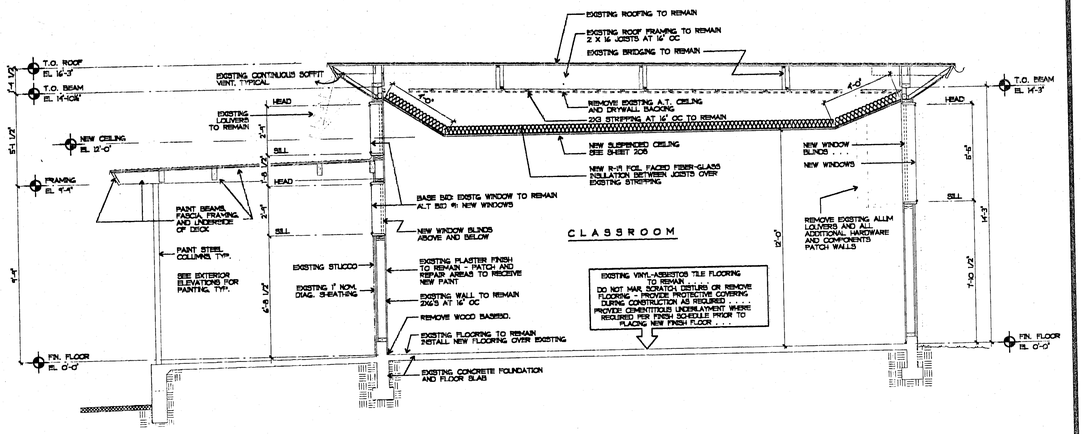
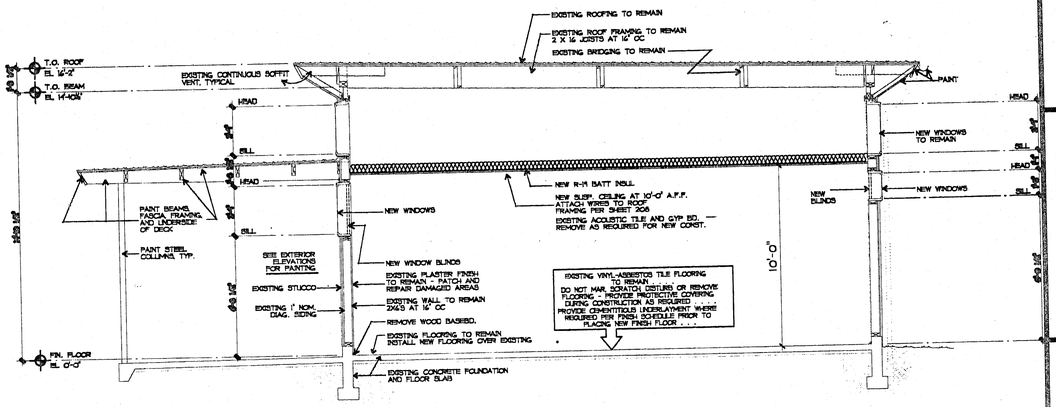
△ MAY 7, 1999

SHEET TITLE
BUILDINGS "F" & "G" ELEVATIONS

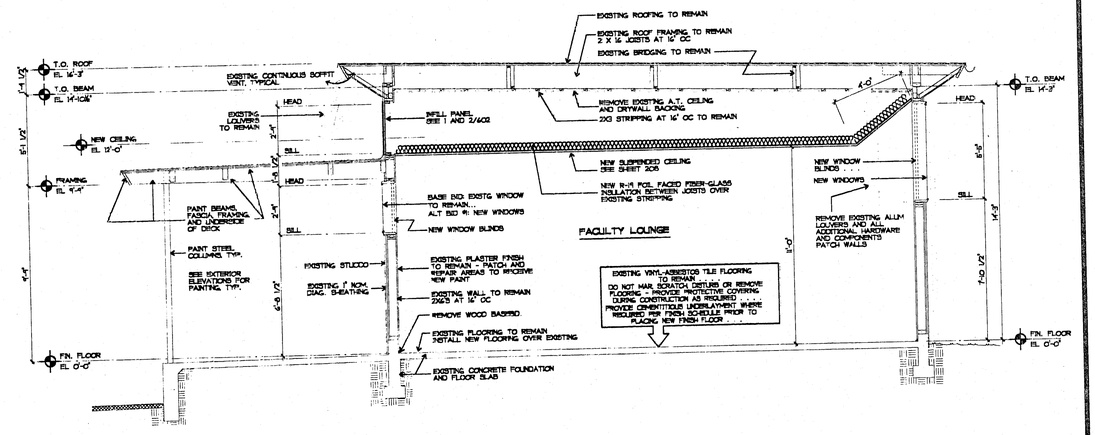
A-15



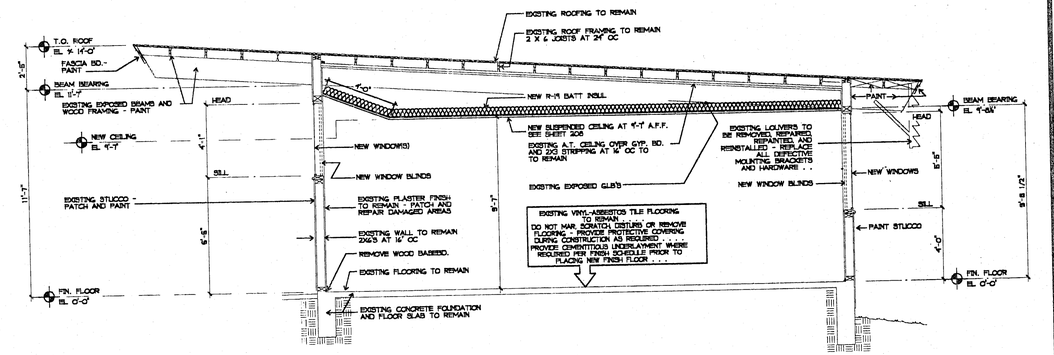
BUILDING A CLASSROOM CROSS SECTION 1/4" = 1'-0" (1)



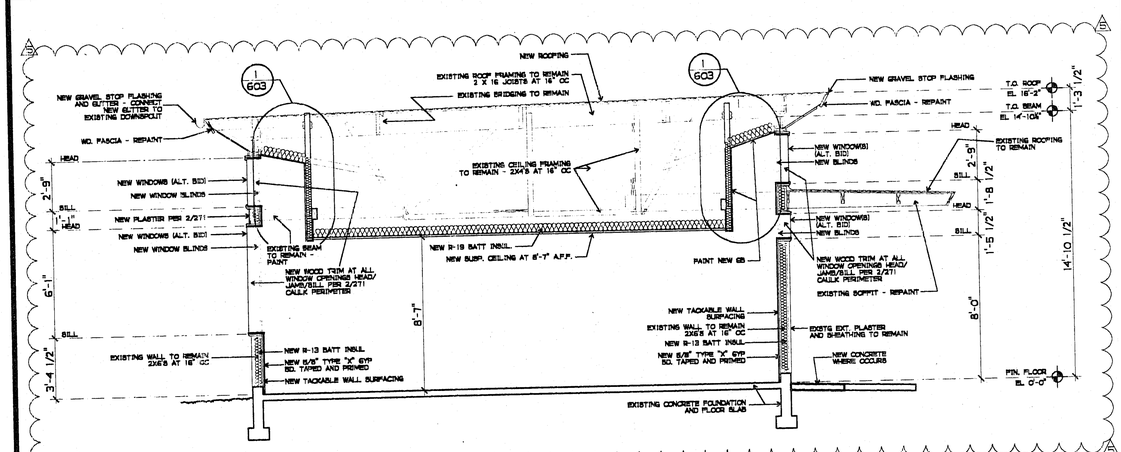
BUILDING B CLASSROOM CROSS SECTION 1/4" = 1'-0" (4)



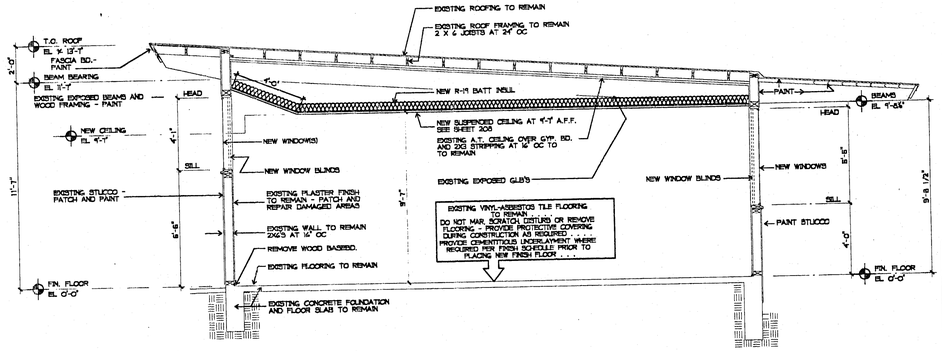
BUILDING A LOUNGE CROSS SECTION 1/4" = 1'-0" (2)



BUILDING C CLASSROOM CROSS SECTION 1/4" = 1'-0" (5)



BUILDING G CROSS SECTION 1/4" = 1'-0" (3)



BUILDING D CLASSROOM CROSS SECTION 1/4" = 1'-0" (6)

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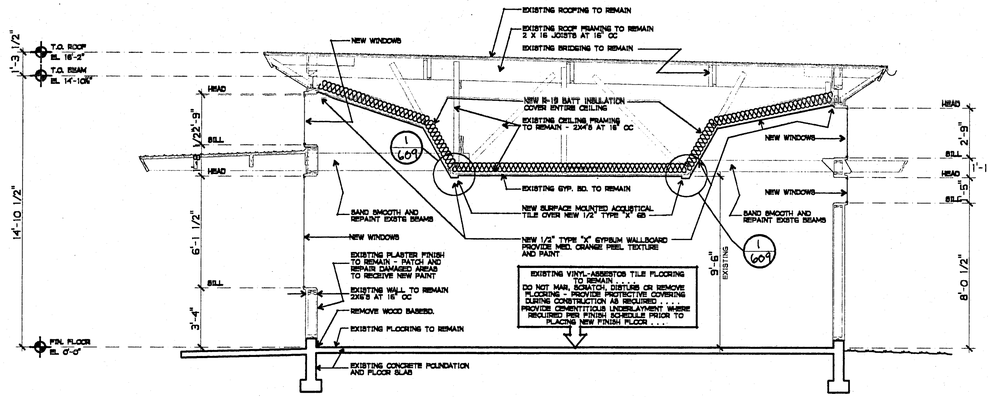
5 MAY 7, 1999

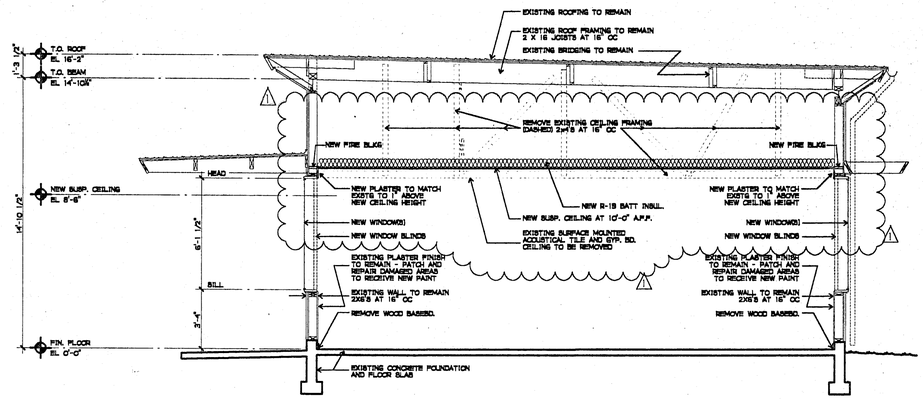
SHEET TITLE
BUILDING A & G CROSS SECTIONS

A-19



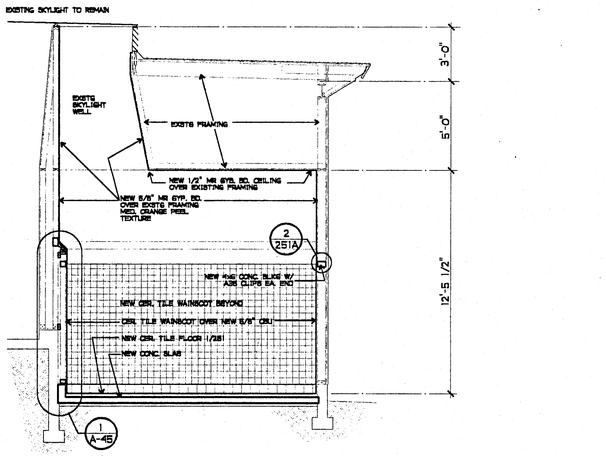
BUILDING E LIBRARY SECTION

1/4" = 1'-0" (1)



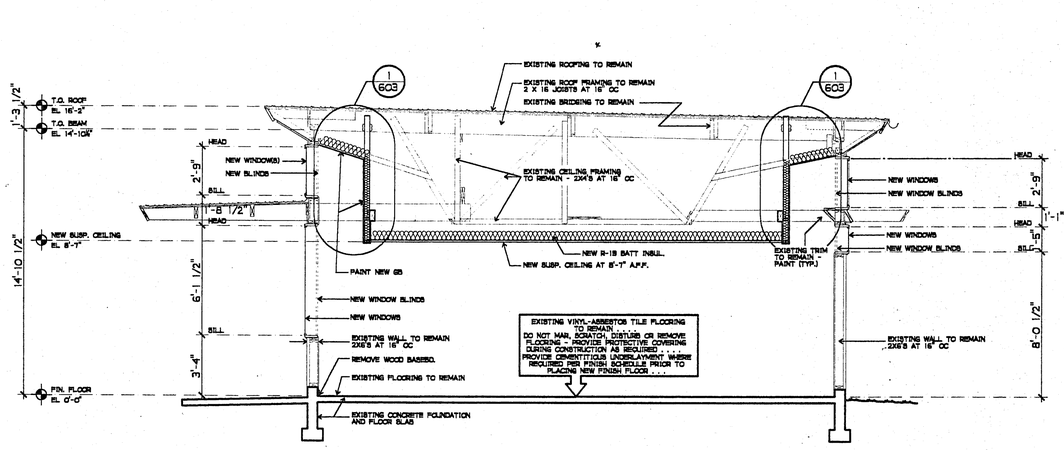
BUILDING F CROSS SECTION

1/4" = 1'-0" (4)



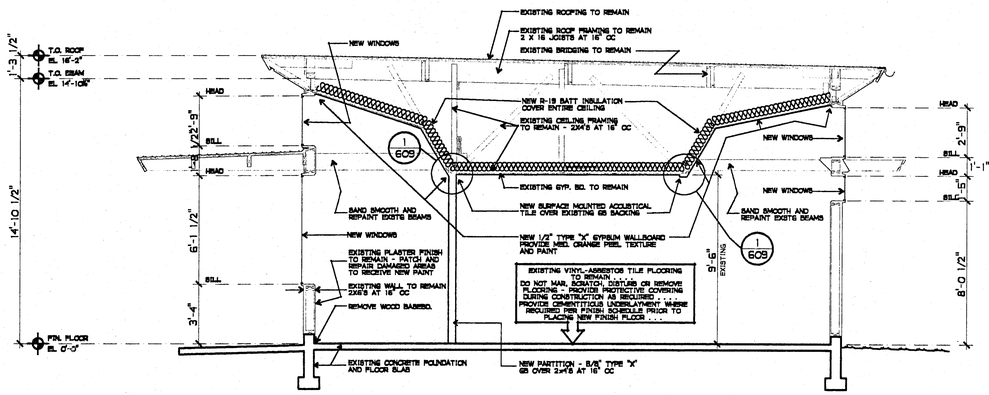
BUILDING E GIRLS TOILET SECTION

1/4" = 1'-0" (2)



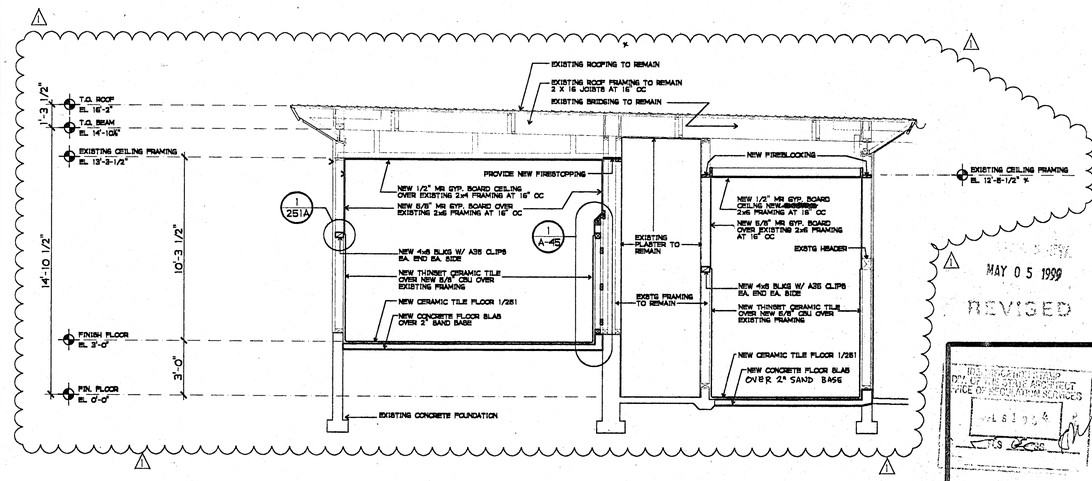
BUILDINGS E. F. & G CROSS SECTION

1/4" = 1'-0" (5)



BUILDING E CROSS SECTION

1/4" = 1'-0" (3)



MAY 05 1999
REVISED

BUILDING G TOILETS CROSS SECTION

6

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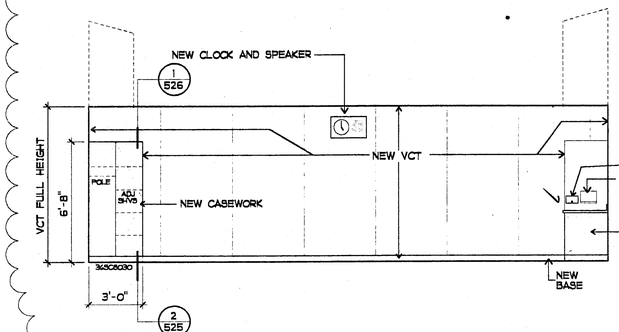
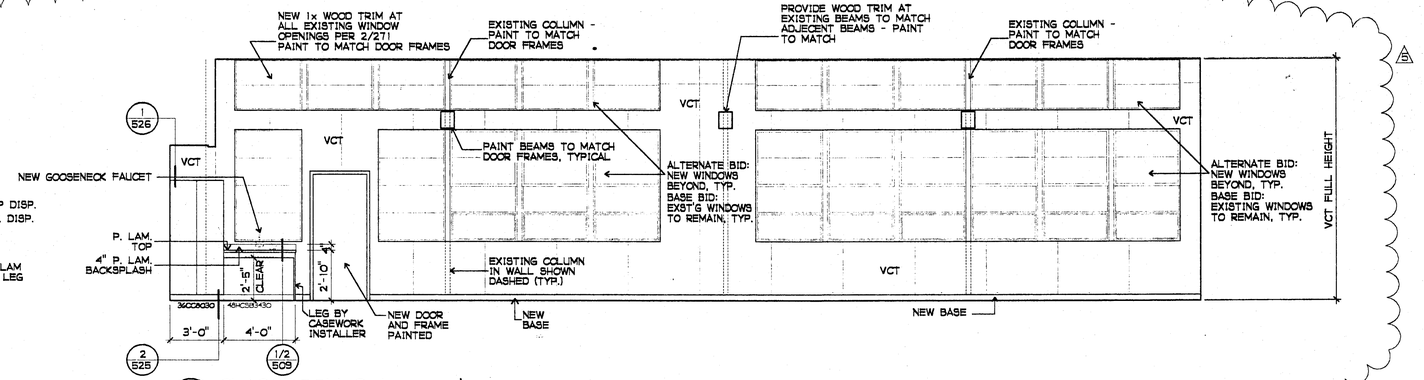
REVISIONS MARCH 15, 1998
△AUG 4, 1998

SHEET TITLE
BUILDING CROSS SECTIONS

A-20



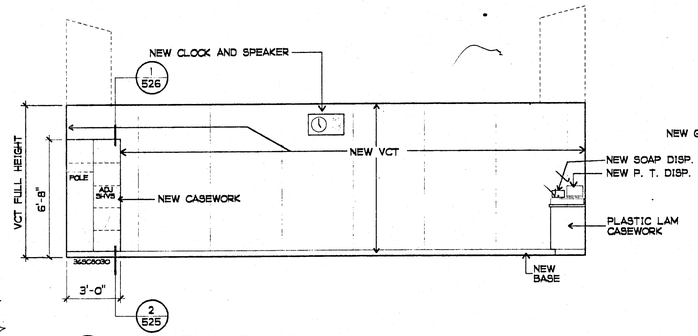
1 CLASSROOM G-1
1/4" = 1'-0"



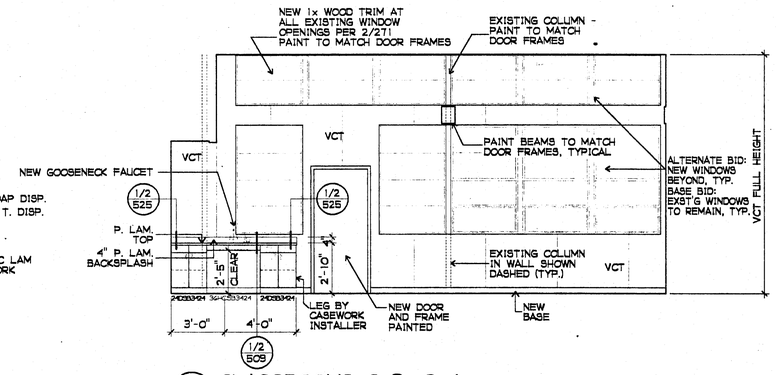
2 CLASSROOM G-1
1/4" = 1'-0"

3 CLASSROOMS G-1, G-3, G-4
1/4" = 1'-0"

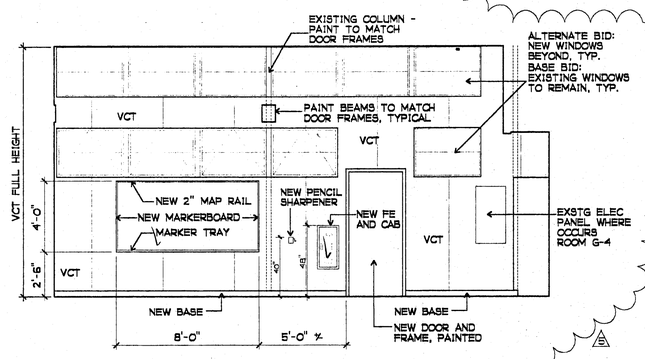
4 CLASSROOM G-1
1/4" = 1'-0"



5 CLASSROOMS G-3, G-4
1/4" = 1'-0"



6 CLASSROOMS G-3, G-4
1/4" = 1'-0"



7 CLASSROOMS G-3, G-4
1/4" = 1'-0"

NOTE:
FOR CABINET ANCHORAGE, SEE DETAIL SHEETS 525 AND 526

D8A

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JSG

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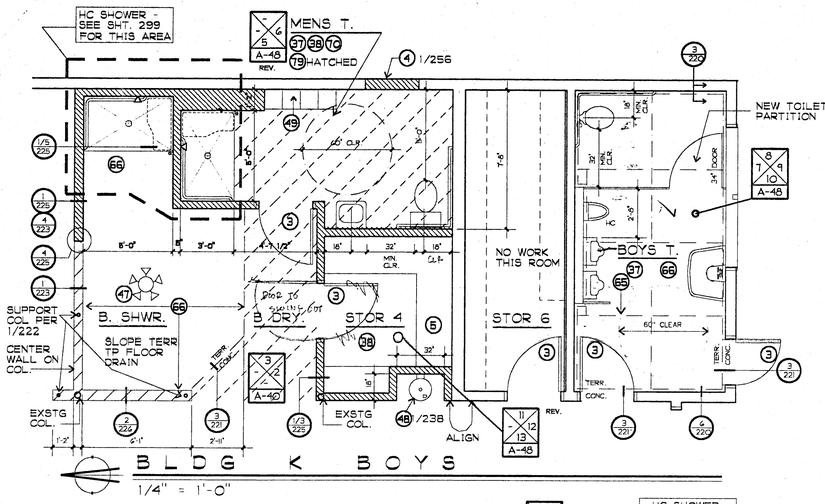
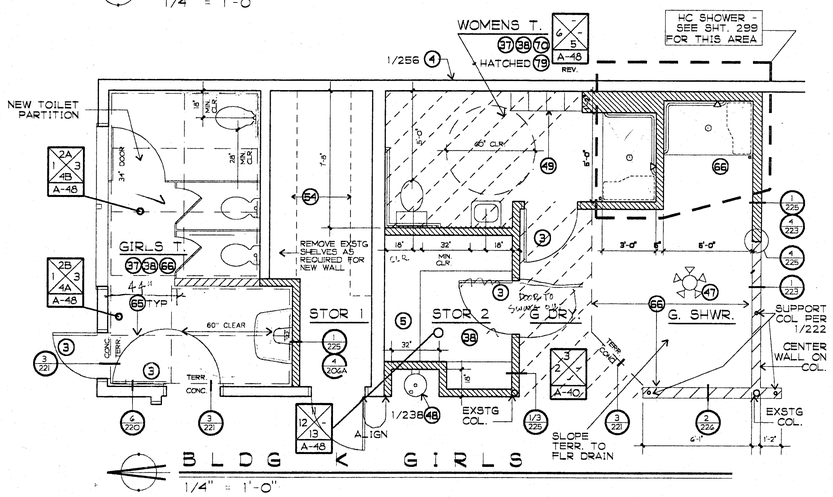
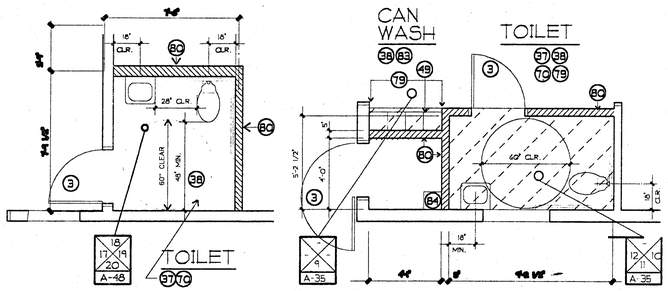
1 AUG 4, 1998
2 MAY 7, 1999

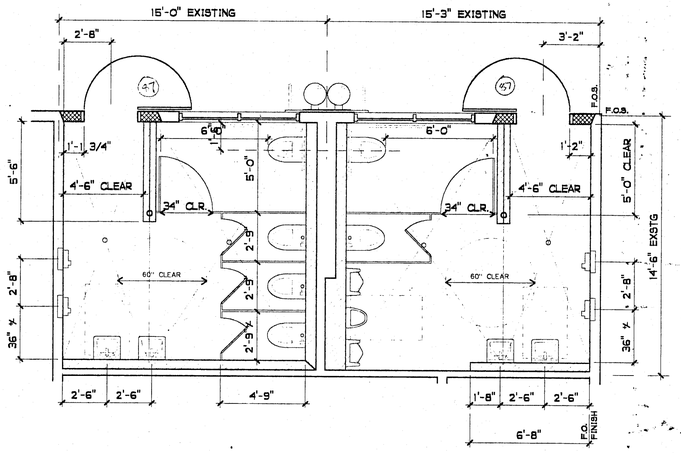
SHEET TITLE
BUILDING G
INTERIOR
ELEVATIONS

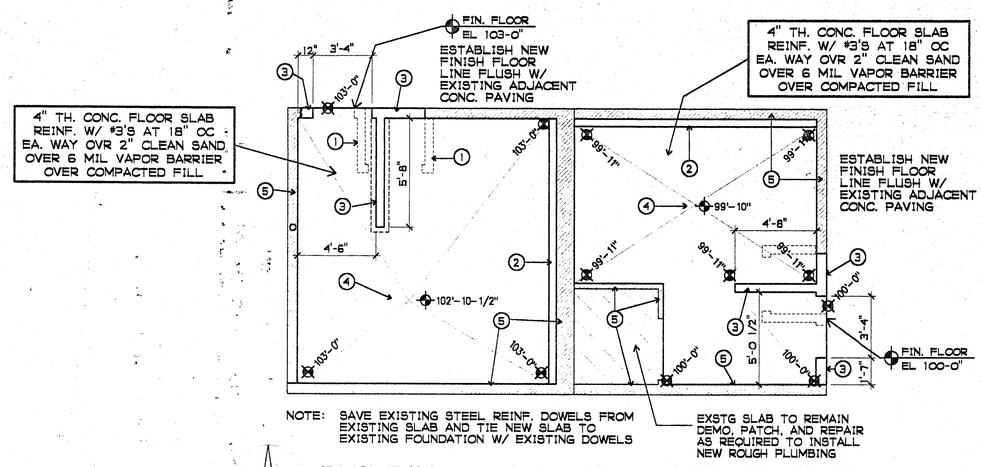
A-33





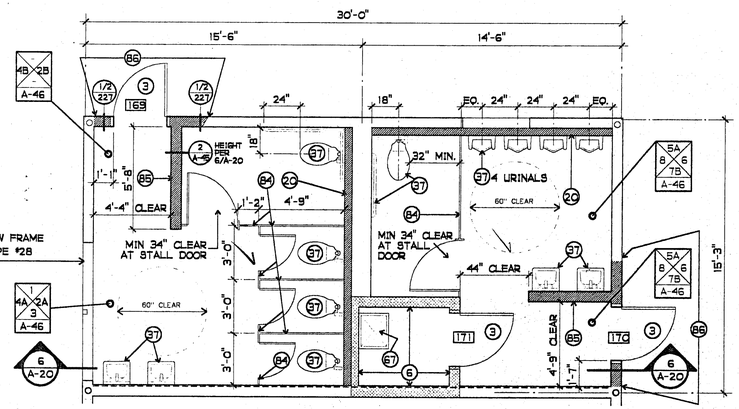






TOILET FLOOR SLAB PLAN NOTES

1. EXSTG CURB TO BE DEMOLISHED (DASHED)
2. NEW CONC. CURB - SEE 1/A-45
3. NEW CONC. CURB - SEE 2/227 AND 2/A-45
4. SLOPE FLOOR TO FLOOR DRAIN LOCATE FLOOR DRAIN AT LOW POINT
5. EXISTING CURB SHOWN CROSS HATCHED



TOILET ROOM PLAN NOTES

3. PROVIDE NEW DOOR AND FRAME PER DOOR SCHEDULE SHEETS 101-105 AND TOILET SIGNAGE PER SPECIFICATIONS
4. REMOVE EXISTING DOOR AND FRAME. FILL VOID IN WALL FLUSH BOTH SIDES PER DETAIL. MATCH EXISTING FINISH OR AS DIRECTED BY THE ARCHITECT
5. NEW SHELVES.
6. EXISTING 1-HOUR CONSTRUCTION SHOWN HATCHED. PLASTER ON INTERIOR SIDE OF JANITOR'S ROOM TO REMAIN - PATCH AS REQUIRED. TOILET ROOM SIDE TO BE NEW 5/8" TYPE "X" G.B. AND CERAMIC TILE WAINSCOT. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING 1-HR RATING OF WALL. TYPE "X" G.B. TO BE CONTINUOUS TO ROOF SHEATHING ABOVE.
8. PROVIDE NEW CASEWORK.
19. FURR OUT WALL - SEE DETAIL 1/206A.
20. FURR OUT WALL - SEE DETAIL 1/A-46 (SHADED)
37. NEW PLUMBING FIXTURES AND ACCESSORIES AS INDICATED, SEE INTERIOR ELEVATIONS AND PLUMBING DRAWINGS
38. PATCH, REPAIR AND REFINISH CEILING WHERE EXISTING WALLS ARE REMOVED
40. NEW NON-BEARING HALF WALL. SHOWN SHADED. SEE NOTED DETAIL.
47. NEW SHOWER COLUMN
48. NEW DRINKING FOUNTAIN, SEE NOTED DETAIL.
49. NEW LOCKERS, SEE DETAIL SHEETS 223 & 516
54. EXISTING SHELVES TO REMAIN, REPAIR AND REPAINT
55. REMOVE FURRING AT CEILING AND FINISH FLUSH WITH EXISTING CEILING. SEE INTERIOR ELEVATIONS.
65. LINE OF TERRAZZO FLOOR DIVIDER STRIP, TYP. - SEE DETAIL 1/220 & 3/221
66. NEW TERRAZZO FLOOR FINISH AS SHOWN AND TERRAZZO WALL FINISH (SEE INTERIOR ELEVATIONS). SLOPE FLOOR TO EXISTING DRAINS.
67. NEW UTILITY FLOOR SINK
70. NEW CERAMIC TILE FLOOR FINISH AS SHOWN & CERAMIC TILE WALL FINISH (SEE INTERIOR ELEVATIONS). SLOPE FLOOR TO EXISTING DRAINS.
79. NEW FIBER REINFORCED CONC. FILL (HATCHED)
80. NEW INTERIOR ONE HOUR PARTITION PER 1/196, PARTITION ATTACHMENT PER DTL. SHT. 206
83. EXISTING ONE HOUR ROOF/CEILING CONSTRUCTION PER 1/195, VERIFY IN FIELD. IF NOT CORRECT REMOVE CEILING FINISH, APPLY 1/2" GBX PER 1/195, TEXTURE AND PAINT
84. NEW TOILET PARTITIONS
85. NEW INTERIOR PARTITION PER DETAIL 2/A-46 (SHADED)
86. NEW EXTERIOR WALL PER DETAILS 1 AND 2/227. FRAME DOOR PER DETAIL 3/A-46 (SHADED)
87. VERIFY SELF CLOSING DOORS

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LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8/31/1998 STATE OF CALIFORNIA

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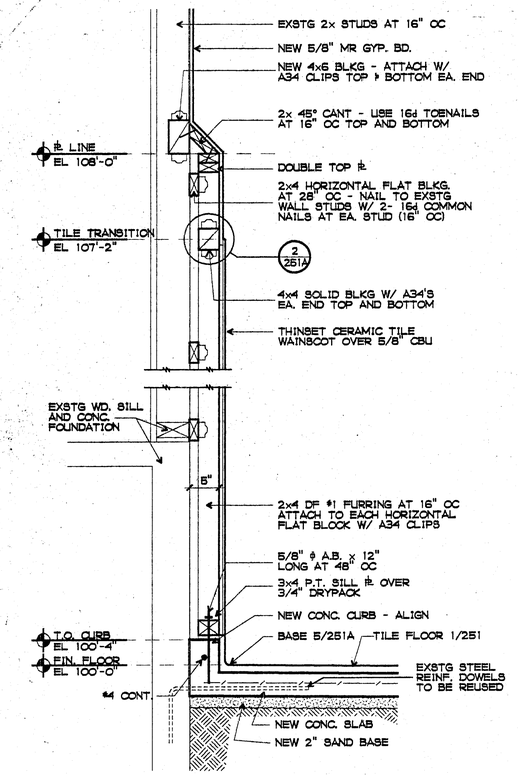
JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

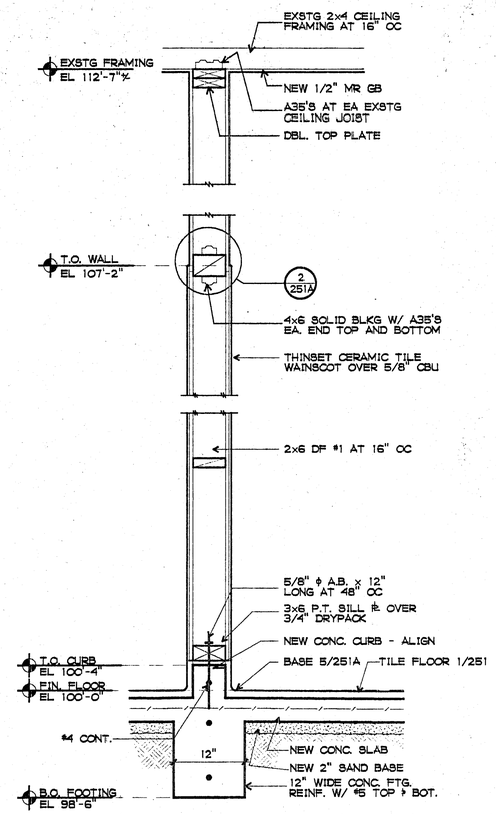
PROJECT 92043-02
DRAWN JBG
DATE 5-20-1994
REVISIONS MARCH 15, 1998

SHEET TITLE
TOILET ROOM PLANS BUILDINGS G, H, L, & K

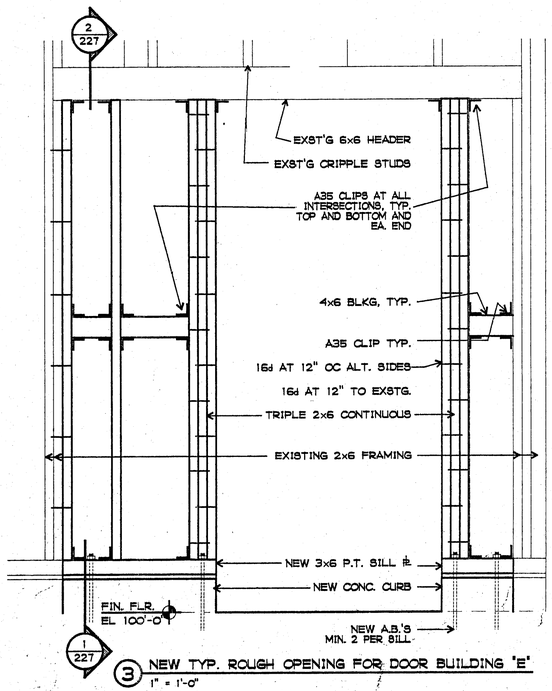
A-44



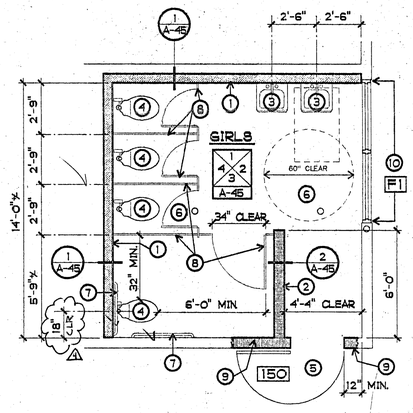
1 FURRED WALL DETAIL - SINGLE WALL
1" = 1'-0"



2 WING WALL PARTITION
1" = 1'-0"



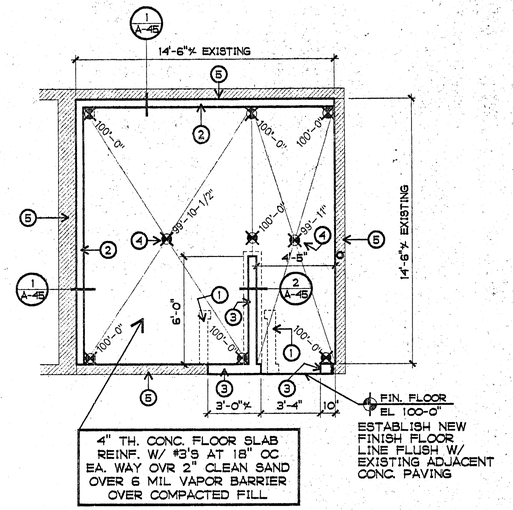
3 NEW TYP. ROUGH OPENING FOR DOOR BUILDING 'E'
1" = 1'-0"



TOILET PLAN NOTES

1. FURR OUT EXISTING WALL PER DETAIL 1/A-45
2. NEW NON-BEARING PARTITION PER 2/A-45
3. NEW LAVATORY
4. NEW WATER CLOSET
5. NEW DOOR AND FRAME
6. NEW FLOOR DRAIN
7. NEW GRAB BARS
8. NEW TOILET PARTITIONS
9. NEW EXTERIOR WALL CONSTRUCTION PER SHEET 227 AND DETAIL 3/A-45
10. NEW FRAME TYPE

BLDG. E GIRLS TOILET PLAN
1/4" = 1'-0"

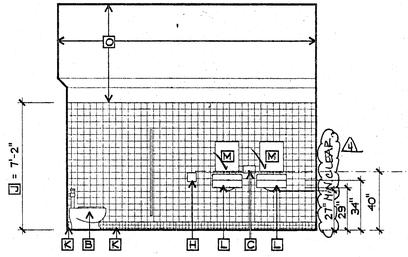


SAVE EXISTING STEEL REINF. DOWELS FROM EXISTING SLAB AND TIE NEW SLAB TO EXISTING FOUNDATION W/ EXISTING DOWELS

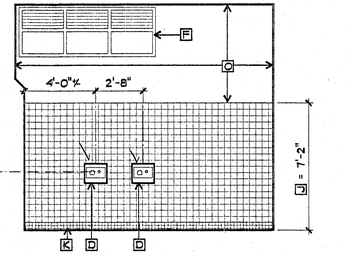
TOILET FLOOR SLAB PLAN NOTES

1. EXSTG CURB TO BE DEMOLISHED (DASHED)
2. NEW CONC. CURB - TOP OF CURB EL 100'-4"
3. NEW CONC. CURB - TOP OF CURB 100'-5-1/2"
4. SLOPE FLOOR TO FLOOR DRAIN
5. EXISTING CURB SHOWN CROSS HATCHED

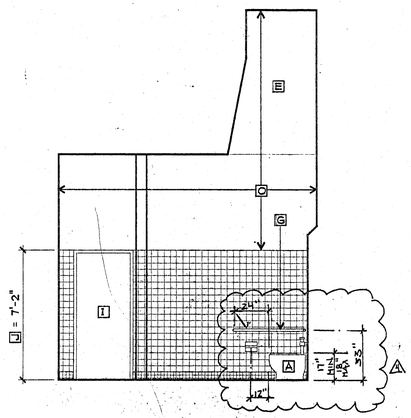
BLDG. E GIRLS TOILET FLOOR SLAB PLAN
1/4" = 1'-0"



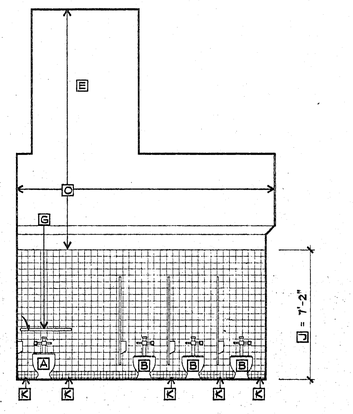
5 BLDG E GIRLS EAST
1/4" = 1'-0"



6 BLDG E GIRLS SOUTH
1/4" = 1'-0"



7 BLDG E GIRLS WEST
1/4" = 1'-0"



8 BLDG E GIRLS NORTH
1/4" = 1'-0"

INTERIOR ELEVATION NOTES

- A NEW ACCESSIBLE WATER CLOSET
- B NEW WATER CLOSET
- C NEW SOAP DISPENSER(S)
- D NEW HAND DRYER(S)
- E EXISTING SKYLIGHT WELL
- F NEW FRAME - SEE FRAME TYPES
- G NEW GRAB BARS
- H NEW HOSE BIBB (COVER)
- I NEW DOOR AND FRAME
- J NEW CERAMIC TILE WAINSCOT
- K NEW CERAMIC TILE BASE
- L NEW ACCESSIBLE LAVATORY
- M NEW LAVATORY MIRROR
- N NEW SECURITY MIRROR
- O NEW MR GYP. BD. - PAINTED
- P NEW TOILET PARTITION(S)

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C-12939
REN 8/31/1998
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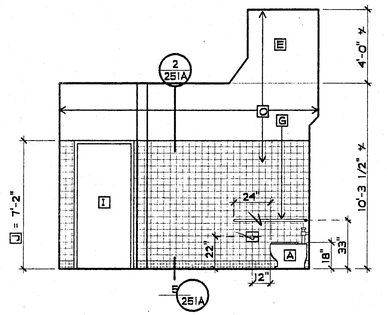
APPLICATION # 77/73569-00-02

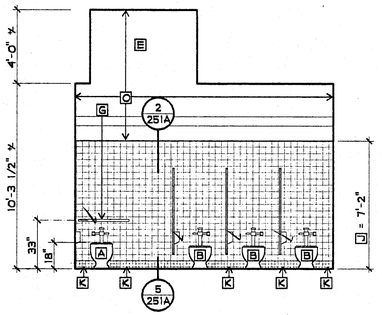
PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
Δ OCT. 1, 1998

SHEET TITLE
BUILDING E GIRLS TOILET ROOM PLANS, ELEVATIONS

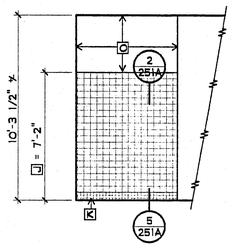
A-45



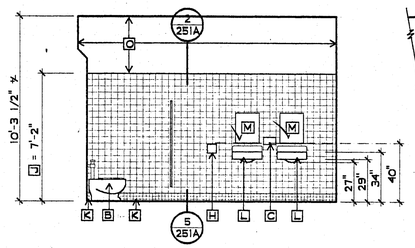
1 WOMEN TOILET ROOM
1/4" = 1'-0"



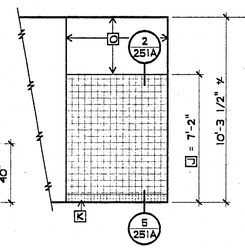
2A WOMEN TOILET ROOM
1/4" = 1'-0"



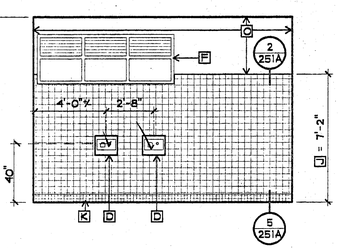
2B WOMEN TOILET ROOM
1/4" = 1'-0"



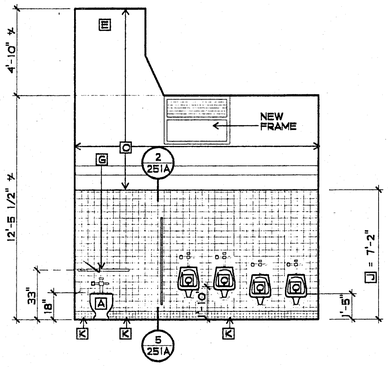
3 WOMEN TOILET ROOM
1/4" = 1'-0"



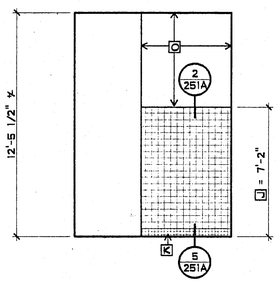
4A WOMEN TOILET ROOM
1/4" = 1'-0"



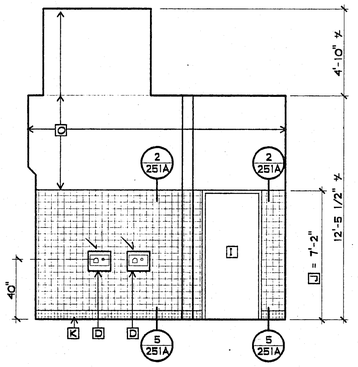
4B WOMEN TOILET ROOM
1/4" = 1'-0"



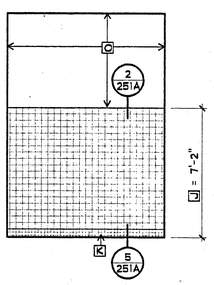
5A BOYS TOILET ROOM
1/4" = 1'-0"



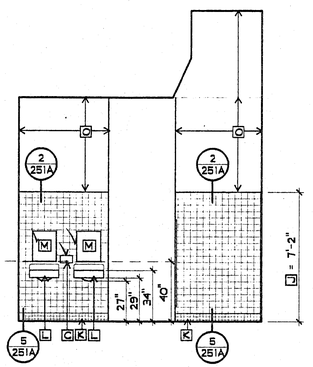
5B BOYS TOILET ROOM
1/4" = 1'-0"



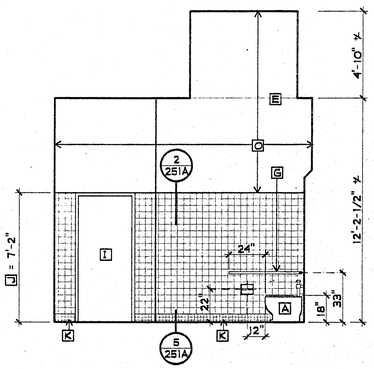
6 BOYS TOILET ROOM
1/4" = 1'-0"



7A BOYS TOILET ROOM
1/4" = 1'-0"



7B BOYS TOILET ROOM
1/4" = 1'-0"



8 BOYS TOILET ROOM
1/4" = 1'-0"

INTERIOR ELEVATION NOTES

- A NEW ACCESSIBLE WATER CLOSET FLUSH VALVES SHALL BE POSITIONED ON THE WIDE SIDE OF THE STALL, TYPICAL
- B NEW WATER CLOSET
- C NEW SOAP DISPENSER(S)
- D NEW HAND DRYER(S)
- E EXISTING SKYLIGHT WELL
- F NEW FRAME - SEE FRAME TYPES
- G NEW GRAB BARS - ANCHOR PER 1/209
- H NEW HOSE BIBB (COVER)
- I NEW DOOR AND FRAME
- J NEW CERAMIC TILE WAINSCOT
- K NEW CERAMIC TILE BASE
- L NEW ACCESSIBLE LAVATORY
- M NEW LAVATORY MIRROR
- N NEW SECURITY MIRROR
- O NEW MR GYP. BD. - PAINTED
- P NEW TOILET PARTITION(S)

NEW URINAL

1 MAY 05 1999
REVISED

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APPL 61964
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C-12939
REN 8-31-99
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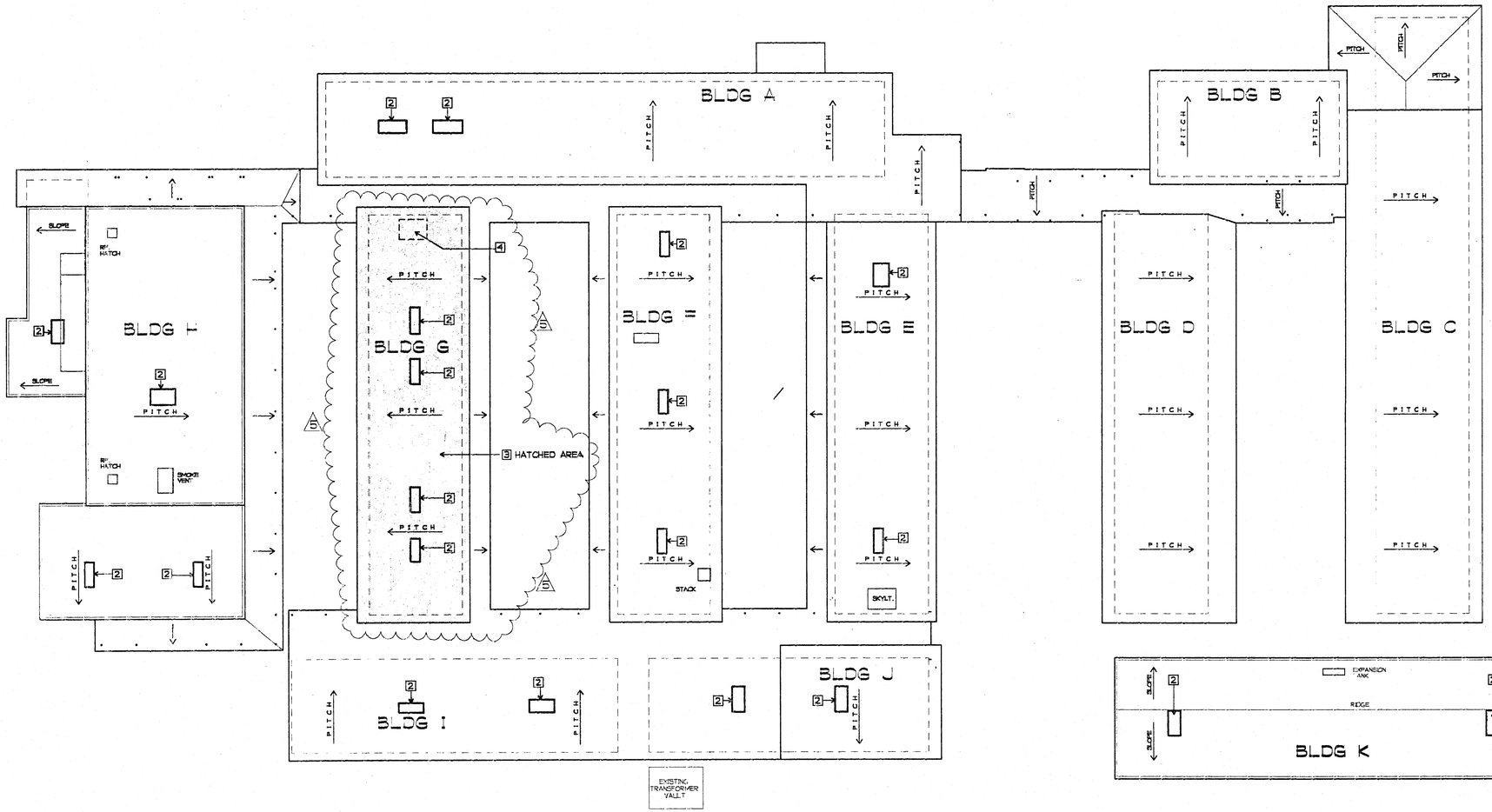
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
1 AUG 4, 1998

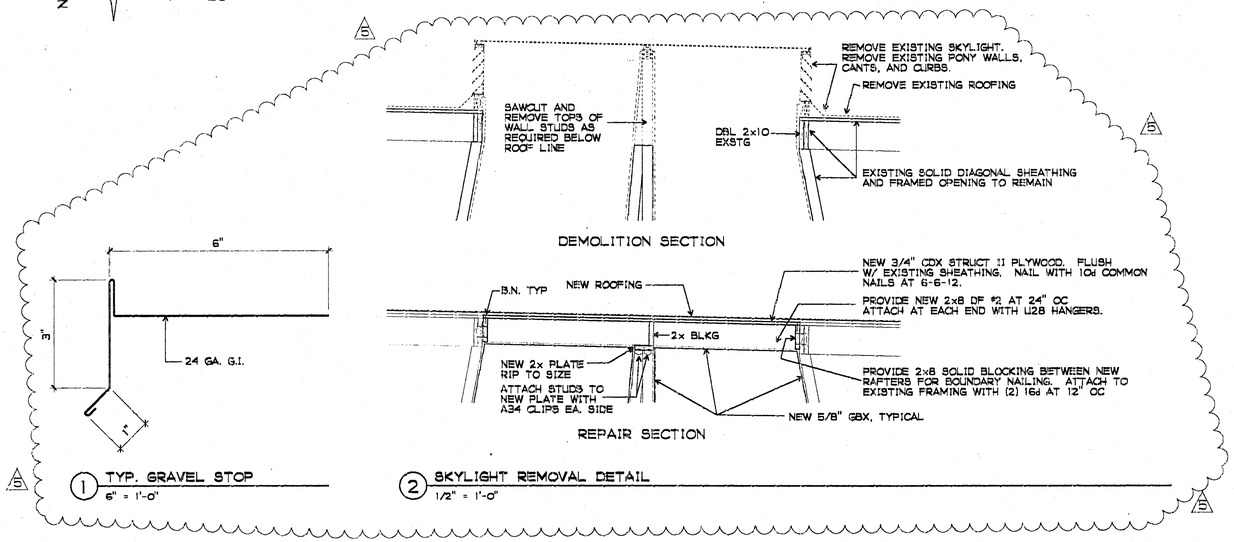
SHEET TITLE
BUILDING G
TOILET
INTERIOR
ELEVATIONS

A-46



ROOF PLAN

1" = 20'



1 TYP. GRAVEL STOP
6" = 1'-0"

2 SKYLIGHT REMOVAL DETAIL
1/2" = 1'-0"

SHEET NOTES

1. EXSTG. SKYLIGHT TO REMAIN
2. NEW MECH. UNIT - SEE "M" SHEETS FOR UNIT TYPE. REINFORCE ROOF FRAMING PER SHEET S-2.4
3. REMOVE EXISTING ROOFING MATERIAL. REMOVE EXISTING GRAVEL STOP AND EXISTING GUTTER(S). PROVIDE NEW BUILT UP ROOFING, GRAVEL STOP, AND GUTTERS. ROOFING SHALL BE PER SPEC SECTION 07600. GRAVEL STOP SHALL BE PER DETAIL 1/A-49 AND PER SPEC SECTION 07600. GUTTERS SHALL BE DOUBLE BEAD HALF ROUND, SIZE 6". NEW GUTTERS SHALL BE MOUNTED LEVEL USING BRACKETS. BRACKETS TO BE MOUNTED TO THE EXISTING FASCIA BOARD, AND SHALL BE PAINTED TO MATCH THE FASCIA. CONNECT NEW GUTTERS TO EXISTING DOWNSPOUTS, AND PROVIDE NEW DOWNSPOUT MATERIAL TO EXTEND EXISTING DOWNSPOUTS IF REQUIRED. GUTTER MATERIAL TO BE 24 GA. GALV. IRON PER 07600.2.1.A. (HATCHED AREA)
4. REMOVE EXISTING SKYLIGHT AND FILL VOID IN ROOF PER DETAIL 2/A-49.

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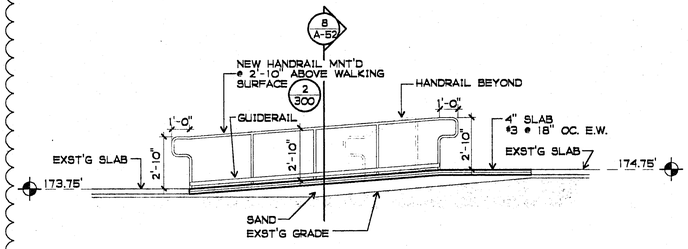
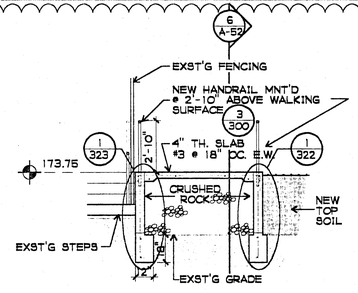
DRAWN JSG
DATE 5-20-1994
REVISIONS
MARCH 15, 1998
5 MAY 7, 1999

SHEET TITLE
ROOF PLAN

A-49



2 ACCESSIBLE RAMP SECTION
1/4" = 1'-0"



3 ACCESSIBLE RAMP SECTION
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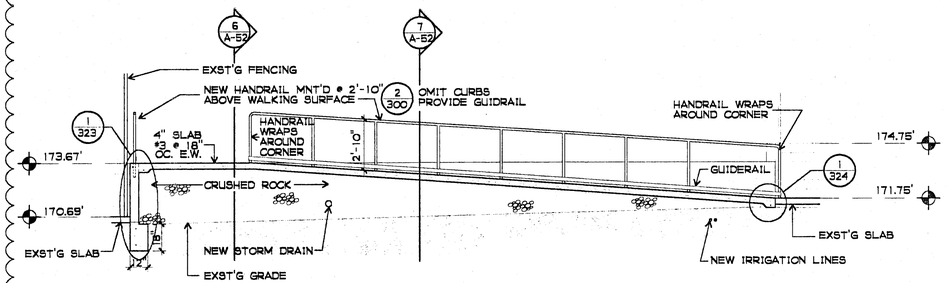
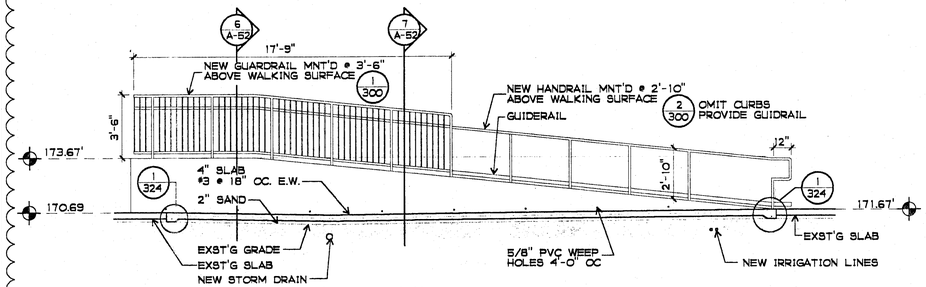
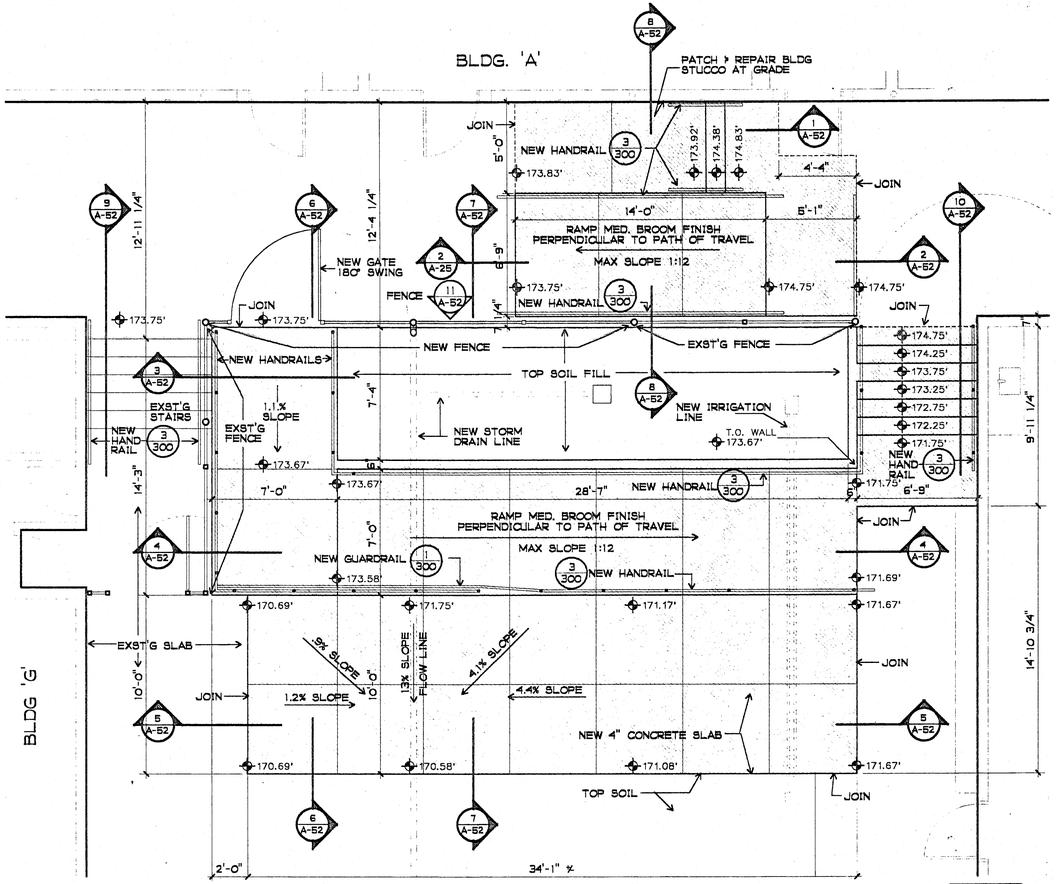


4 ACCESSIBLE RAMP SECTION
1/4" = 1'-0"

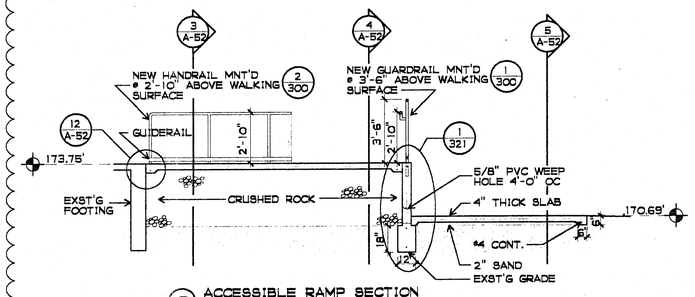


5 ACCESSIBLE RAMP SECTION
1/4" = 1'-0"

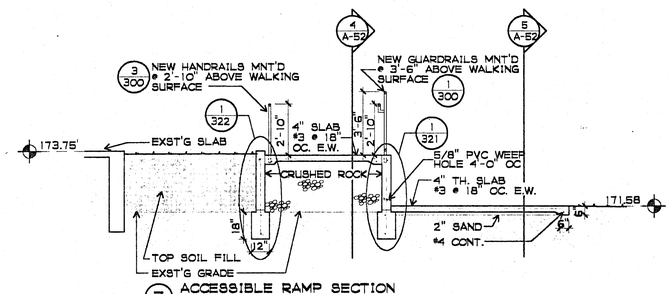


1 ACCESSIBLE RAMP #1 & BLDG'S 'F' & 'G' STEPS PLAN (ALSO SEE SHEET A-53)
1/4" = 1'-0"

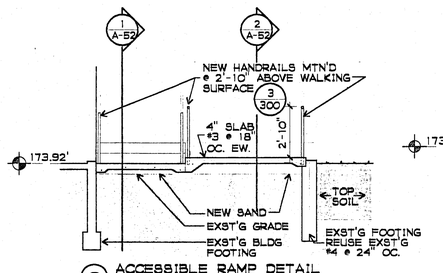
4" THICK NEW CONCRETE REINF. W/ #3'S @ 18" OC. EA. WAY.



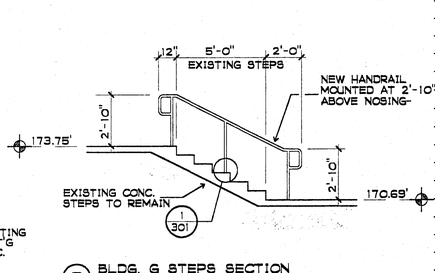
6 ACCESSIBLE RAMP SECTION
1/4" = 1'-0"



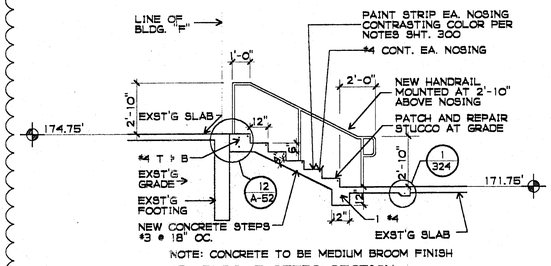
7 ACCESSIBLE RAMP SECTION
1/4" = 1'-0"



8 ACCESSIBLE RAMP DETAIL
1/4" = 1'-0"

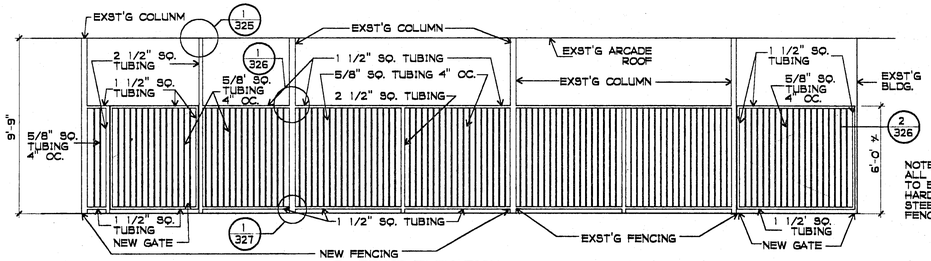


9 BLDG. G STEPS SECTION
1/4" = 1'-0"



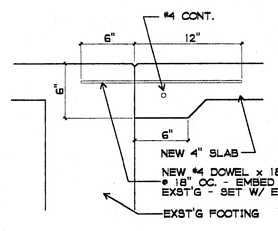
NOTE: CONCRETE TO BE MEDIUM BROOM FINISH

10 BLDG. F STEPS SECTION
1/4" = 1'-0"



NOTE:
ALL NEW FENCING MATERIALS TO BE GALVANIZED, ALL HARDWARE TO BE STAINLESS STEEL. PAINT ALL NEW FENCES, GATES, AND COLUMNS

11 FENCE ELEVATION
1/4" = 1'-0"



12 DETAIL
1 1/2" = 1'-0"

LICENSED ARCHITECT
JOHN SCOTT GROTH
C-26609
4/30/2001
RENEWAL
STATE OF CALIFORNIA

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JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

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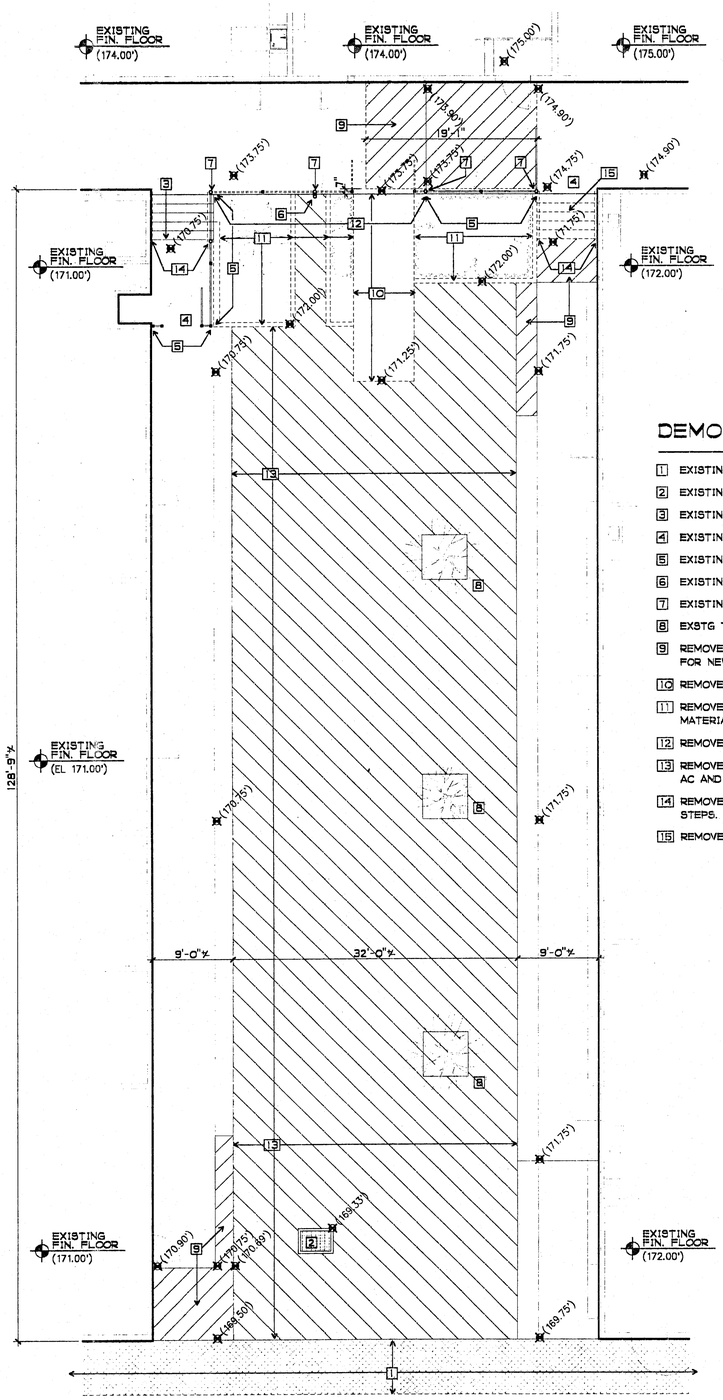
PROJECT 92043-02
DRAWN JSG
DATE 5-20-1999
REVISIONS
3 MAY 7, 1999

SHEET TITLE
ACCESSIBLE RAMP #1 PLAN AND SECTIONS

A-52

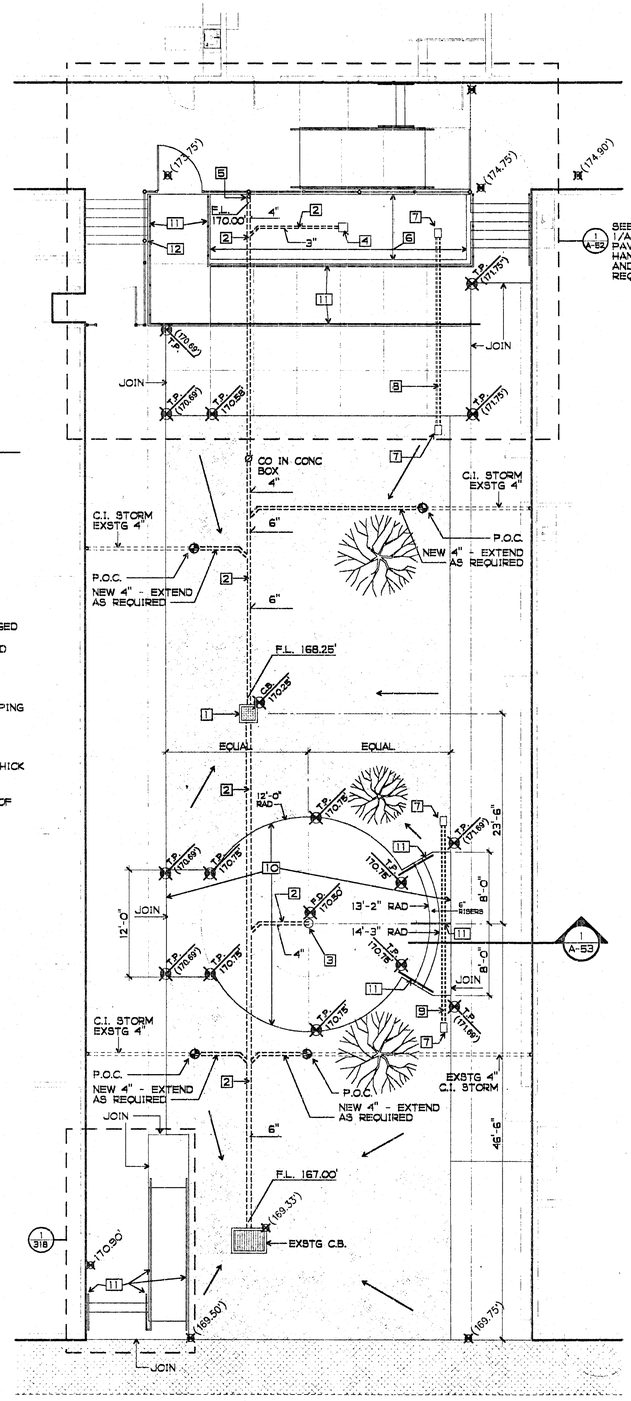


F-G COURTYARD DEMOLITION PLAN

1/8" = 1'-0"

DEMO PLAN NOTES

1. EXISTING TUNNEL BELOW
2. EXISTING CATCH BASIN TO REMAIN
3. EXISTING STEPS TO REMAIN
4. EXISTING GATE TO REMAIN
5. EXISTING FENCING TO REMAIN.
6. EXISTING DOWNSPOUT TO REMAIN.
7. EXISTING COLUMN TO REMAIN
8. EXSTG TREE TO REMAIN. LEAVE ROOTS UNDAMAGED
9. REMOVE EXISTING CONCRETE PAVING AS REQUIRED FOR NEW RAMPS AND STEPS. (HATCHED)
10. REMOVE EXISTING CONC. RAMP AND RAILINGS
11. REMOVE EXISTING PLANTER WALLS AND LANDSCAPING MATERIAL
12. REMOVE EXISTING FENCING / GATE(S)
13. REMOVE EXISTING ASPHALT AND BASE. 2-1/2" THICK AC AND 2" BASE ASSUMED. (HATCHED AREA)
14. REMOVE EXISTING METAL RAILINGS BOTH SIDES OF STEPS.
15. REMOVE EXISTING STEPS



F-G COURTYARD PLAN

1/8" = 1'-0"

LEGEND

WHERE EXISTING A.C PAVING IS REMOVED THE TOP 6" OF THE EXISTING SOIL SHALL BE SCARIFIED AND CULTIVATED TO A FINELY DIVIDED CONDITION WITH 25% SOIL AMENDMENT MIXED IN. COVER WITH 3" MINIMUM TOPSOIL AND GRADE PER GREENBOOK SECTION 308.

(0.00') EXISTING ELEVATION

T.P. 180.00 NEW ELEVATION

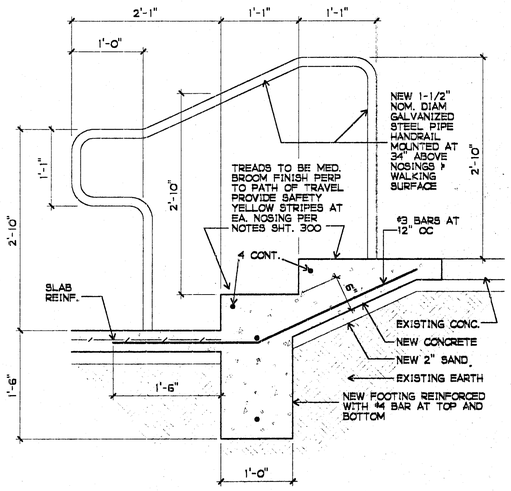
NEW U/G STORM DRAIN LINE

GENERAL NOTES

1. WORK SHOWN ON THIS SHEET SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF THE AMERICAN PUBLIC WORKS ASSOCIATION ("GREEN BOOK"), 1997 EDITION.
2. UNDERGROUND STORM DRAIN PIPE SHALL CONFORM TO SECTION 207-16 OF THE "GREENBOOK" AND SHALL BE ABS PIPE.
3. ALL NEW CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE WITH HEAVY METAL TRAFFIC BEARING GRATES. DIMENSIONS SHOWN ON PLANS ARE MINIMUM INSIDE DIMENSIONS. "BROOKS" OR EQUAL. KNOCK OUT OR CUT OPENING IN BOX FOR PIPE. SOLID GROUT PIPE INTO POSITION.
4. PROVIDE MINIMUM 12" COVER OVER STORM DRAIN LINES.
5. MINIMUM DRAIN LINE SLOPE SHALL BE 2%. VERIFY ELEVATIONS IN FIELD.
6. SOIL AMENDMENTS SHALL BE ORGANIC TYPE 1 PER SECTION 212-1.2.4.
6. TOPSOIL SHALL BE CLASS "A" IMPORTED PER SECTION 212-1.1.2.

PLAN NOTES

1. PROVIDE NEW 18" x 18" x 30" DEEP CATCH BASIN.
2. NEW STORM DRAIN LINE
3. NEW JAY R. SMITH # 2235Y04- (G-L) 12" DIAM. FLOOR DRAIN MEDIUM DUTY WITH SEDIMENT BUCKET.
4. NEW JAY R. SMITH # 2673T03- (2646Y-G-U) PLANTING AREA DRAIN.
5. CONNECT EXISTING DOWNSPOUT TO NEW 4" DRAIN LINE. EXTEND DRAIN LINE UP TO DOWNSPOUT AS REQUIRED. MAKE CONNECTION AT GRADE.
6. FILL PLANTER BASIN WITH NEW TOPSOIL TO WITHIN 2" OF TOP OF NEW RETAINING WALL AT PERIMETER. SLOPE SURFACE TO AREA DRAIN AT 2% SLOPE.
7. PROVIDE NEW 9" x 12" x 18" DEEP PLASTIC VALVE BOX WITH THE WORD "IRRIGATION" EMBOSSED ON THE COVER. FILL BOTTOM 6" OF BOX WITH PEA GRAVEL.
8. TWO (2) 3/4" PVC SCHEDULE 40. PROVIDE PULL STRING IN ONE CONDUIT. TERMINATE ENDS IN VALVE BOXES.
9. ONE (1) 1" AND ONE (1) 1-1/2" PVC SCHEDULE 40. PROVIDE PULL STRING IN 1" CONDUIT. TERMINATE ENDS IN VALVE BOXES.
10. NEW 3-1/2" THICK CONCRETE PAVING OVER 2" SAND. REINFORCE CONCRETE WITH #3 BARS AT 18" OC EACH WAY. MINIMUM COMPRESSIVE STRENGTH TO BE 2500 PSI.
11. NEW HANDRAILS
12. PROVIDE NEW HOSE BIBB AT EXISTING WATER LINE MOUNTED AT 15" ABOVE WALKING SURFACE.



1 EXTERIOR STEP DETAIL

1" = 1'-0"

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8/31/1999 STATE OF CALIFORNIA

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PROJECT 92043-02

DRAWN JSG

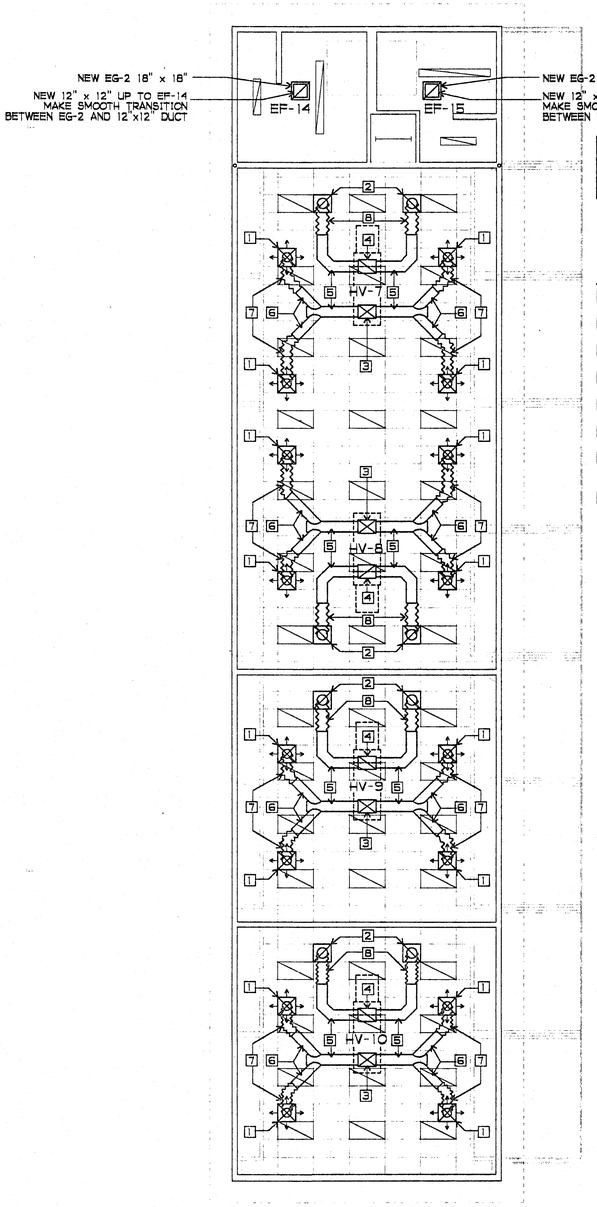
DATE MAY 7, 1999

REVISIONS

SHEET TITLE

BUILDG. F/G COURTYARD PLAN

A-53



NOTE:
FANS EF-14 AND EF-15 ARE THE THE SAME AS EF-9, EXCEPT THAT EF-14 AND EF-15 ARE INTERLOCKED WITH ROOM LIGHT CONTROLS

BUILDING G
MECHANICAL PLAN NOTES

1. CD-1, 15" x 15" 450 CFM 4-WAY
2. RR-1 22" x 22" 900 CFM
3. 24" x 18" SUPPLY UP TO HV UNIT
4. 24" x 18" RETURN UP TO HV UNIT
5. 14"ϕ
6. 12"ϕ
7. 12"ϕ FLEXIBLE DUCT CONNECTION NOT TO EXCEED 7' IN LENGTH
8. 14"ϕ FLEXIBLE DUCT CONNECTION NOT TO EXCEED 7' IN LENGTH

BUILIDNG G MECHANICAL PLAN

1/8" = 1'-0"

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DRAWN
JSG

DATE
MAY 7, 1999

REVISIONS

SHEET TITLE
BUILIDNG G MECHANICAL PLAN

M4.1

RELIEF HOOD SCHEDULE

MARK	BUILDING	SPACE OR ROOM	CFM	THROAT AREA (S.F.)	THROAT SIZE	THROAT VELOCITY (FPM)	HOODSIZE W x L x H INCHES	DAMPER	MAKE	MODEL	OPERATING WEIGHT LBS.	REMARKS
RH-1	E	E-1	4800	5.25	14"X54"	914	32X72X16	BACK DRAFT	GREENHECK	FABRA HOOD	192	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-2	G	COMPUTERS G-1	1800	2.0	12"X24"	900	24X36X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-3	G	COMPUTERS G-2	1800	2.0	12"X24"	900	24X36X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-4	G	COMPUTERS G-3	1800	2.0	12"X24"	900	24X36X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-5	G	CL. ROOM G-4	1800	2.0	12"X24"	900	24X36X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-6	H	OFFICE	600	1.0	12"X12"	600	22X24X14	BACK DRAFT	GREENHECK	FABRA HOOD	59	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-7 RH-8	H	MULTI-PURPOSE	6000	8.33	20"X60"	720	43X84X16	BACK DRAFT	GREENHECK	FABRA HOOD	251	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-9	H	GREEN ROOM	500	1.0	12"X12"	500	22X24X14	BACK DRAFT	GREENHECK	FABRA HOOD	59	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-10	H	CL. ROOM H-3	1800	2.0	12"X24"	900	24X36X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-11	H	CL. ROOM H-2	1700	2.0	12"X24"	850	24X36X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-12	I	ART I-1	2000	2.25	18"X18"	888	28X36X16	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-13	I	ART I-2	2500	4.17	20"X30"	600	30X48X16	BACK DRAFT	GREENHECK	FABRA HOOD	176	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-14	J	HOME EC. J-1	2600	4.17	20"X30"	600	30X48X16	BACK DRAFT	GREENHECK	FABRA HOOD	176	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-15	J	HOME EC. J-2	2700	4.08	14"X42"	662	24X60X16	BACK DRAFT	GREENHECK	FABRA HOOD	176	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-16 RH-17	K	LOCKERS	3700	4.5	36"X18"	822	28X48X16	BACK DRAFT	GREENHECK	FABRA HOOD	142	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-18	L	CL. ROOM L-1	3400	3.75	30"X18"	906	23X48X16	BACK DRAFT	GREENHECK	FABRA HOOD	130	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-19	L	CL. ROOM L-2	1800	2.25	18"X18"	800	28X36X16	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-20	L	CL. ROOM L-3	3200	3.75	30"X18"	853	28X48X16	BACK DRAFT	GREENHECK	FABRA HOOD	130	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-21	M	BAND ROOM M-1	3400	3.75	30"X18"	906	28X48X16	BACK DRAFT	GREENHECK	FABRA HOOD	130	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER
RH-22 RH-23	A	A-1 A-2	1800	2.0	12"x24"	900	24X26X14	BACK DRAFT	GREENHECK	FABRA HOOD	101	WITH 7" HIGH CURB AND PRESSURE RELIEF DAMPER

TEMPERATURE CONTROL BOX SCHEDULE

MARK	VOLUME CONTROL	C.F.M. RANGE	MIN. INLET S.P.	MAX. FACE SIZE	HEATING COIL AIR TEMP. ENT.	HEATING COIL AIR TEMP. LVG.	HEATING COIL WATER TEMP. ENT.	HEATING COIL WATER TEMP. LVG.	G.P.M.	HEATING CONTROL VALVE TYPE	HEATING CONTROL VALVE MAX. PSI DROP	REMARKS
VAV	SHUT-OFF	100-250	0.50	6"	–	–	–	–	–	–	–	REFER TO SPECS.
VAV	SHUT-OFF	251-500	0.50	8"	–	–	–	–	–	–	–	REFER TO SPECS.
VAV	SHUT-OFF	501-1000	0.50	10"	–	–	–	–	–	–	–	REFER TO SPECS.
CV	CONSTANT VOLUME	250	0.50	6"	55	85	180	160	.81	MODULATING	4	REFER TO SPECS.

FIN TUBE RADIATION SCHEDULE

UNIT NO.	AREA SERVED	BTU/HR. PER LIN. FT.	ELEMENT DATA FIN SIZE	FIN CONST.	FIN SPACING/FT.	TIERS	TUBE SIZE	TUBE CONST.	WATER DATA AVE. WATER TEMP.	WATER DATA TEMP DROP	REMARKS
FT-1	A-1, A-2 C-1 THRU C-5 D-1 THRU D-4	1390	4"X4"	ALUM-INUM	40	1	3/4"	COPPER	180	20	14 GA. STEEL ENLOSURE, 20" HIGH, WALL MOUNTED, SLOPE-TOP DUNHAM-BUSH TYPE SG420
FT-2	B-1, B-2	1670	4"X4"	ALUM-INUM	40	2	3/4"	COPPER	180	20	14 GA. STEEL ENLOSURE, 20" HIGH, WALL MOUNTED, SLOPE-TOP DUNHAM-BUSH TYPE SG420

ZONE DAMPER SCHEDULE

MARK	SERVING BLDG "A"	CFM	SIZE, INCHES DIAMETER	SIZE, INCHES LENGTH	MAKE, MODEL OR SERIES	REMARKS
ZD-1	FACULTY LOUNGE	1600	16	20	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-2	WORK ROOM	750	14	20	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-3	HEALTH OFF. AND WARD	450	12	16	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-4	RECEPTION	400	12	16	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-5	ADMIN. OFFICE	1250	16	20	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-6	OFF. #5	230	10	16	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-7	OFF. #4	210	8	12	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-8	OFF. #3	250	10	16	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS
ZD-9	AH-1 BY-PASS DAMPER	2400	16	20	TRANE VADA, CARRIER 35 PSA OR 2D	MAKE SMOOTH TRANSITIONS TO DUCTWORK. PROVIDE TRANSFER SWITCH (120-24 VOLT), DAMPER AND CONTROLS

HEATING & VENTILATING UNIT SCHEDULE

MARK	SUPPLY FAN CFM	EXT. S.P.	RPM	BHP	HP	ARRANGEMENT	LOCATION	SERVING	ELECTRICAL VOLTS	PHASE	HZ	GAS HEATING INPUT BTUH	GAS HEATING OUTPUT BTUH	MANUF.	MODEL	OPERATING WT.LBS.	REMARKS
HV-1	5000	0.9	860	1.8	2	C	ROOF	E-1	208	3	60	350,000	280,000	TRANE	GRA A35	1313	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-2	1800	0.6	935	.62	3/4	C	ROOF	E-2	208	3	60	150,000	118,000	TRANE	GRC A15	896	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-3	2200	0.6	780	.6	3/4	C	ROOF	F-1	208	3	60	200,000	158,000	TRANE	GRC A20	1062	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-4	800	0.5	820	.2	1/4	SIMILAR TO C 100% O.A.	ROOF	BLDG 'F' PREP RM	120	1	60	100,000	79,000	TRANE	GRC A10	864	W/ 12" HIGH CURB AND FIXED O.A. INTAKE, NO RETURN
HV-5	2200	0.6	780	.6	3/4	C	ROOF	F-2	208	3	60	200,000	158,000	TRANE	GRC A20	1062	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-6	1800	0.6	935	.62	3/4	C	ROOF	F-3	208	3	60	150,000	118,500	TRANE	GRC A15	896	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-7,8,9, 10	1800	0.6	935	.62	3/4	C	ROOF	BLDG 'G'	208	3	60	150,000	118,500	TRANE	GRC A15	896	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-11	4600	0.6	915	1.8	2	SIMILAR TO C 100% O.A.	ROOF	BLDG "H" FOOD SER.	208	3	60	300,000	240,000	TRANE	GRA A30	1268	W/ 12" HIGH CURB AND FIXED O.A. INTAKE, NO RETURN
HV-12,13	6000	0.7	845	2.2	3	C	ROOF	BLDG. "H" MULTI-PUR	208	3	60	350,000	280,000	TRANE	GRA A35	1325	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-14	2200	0.6	780	.6	3/4	C	ROOF	H-3	208	3	60	200,000	158,000	TRANE	GRC A20	1073	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-15	1800	0.6	935	.62	3/4	C	ROOF	H-2	208	3	60	150,000	118,000	TRANE	GRC A15	1062	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-16	2000	0.6	880	.63	3/4	C	ROOF	I-1	208	3	60	150,000	120,000	TRANE	GRA A15	896	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-17	2500	0.7	760	.72	1	C	ROOF	I-2	208	3	60	200,000	160,000	TRANE	GRA A20	1069	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-18	2640	0.65	750	.75	1	C	ROOF	J-1	208	3	60	200,000	160,000	TRANE	GRA A20	1069	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-19	2700	0.6	770	.8	1	C	ROOF	J-2	208	3	60	200,000	160,000	TRANE	GRA A20	1069	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-20,21	4500	0.7	980	2.5	3	C	ROOF	BLDG. "K"	208	3	60	250,000	200,000	TRANE	GRA A25	1110	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-22	3400	0.7	915	1.35	1-1/2	C	ROOF	L-1	208	3	60	250,000	200,000	TRANE	GRA A25	1092	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-23	1800	0.6	935	.62	3/4	C	ROOF	L-2	208	3	60	150,000	118,000	TRANE	GRC A15	896	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-24	3200	0.65	815	1.35	1-1/2	C	ROOF	L-3	208	3	60	200,000	160,000	TRANE	GRA A20	1067	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-25	3800	0.7	930	1.85	2	C	ROOF	M-1	208	3	60	250,000	200,000	TRANE	GRA A25	1098	W/ FULL ECONOMIZER SYSTEM AND 12" HIGH CURB
HV-26	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	DELETED
HV-27	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	DELETED

1 NOTE: INCREASE CURB HEIGHT IF NEEDED FOR TRANSITION TO DUCT THRU ROOF.

EXHAUST FAN SCHEDULE

MARK	BUILDING	SPACE OR ROOM	TYPE	C.F.M.	S.P.	R.P.M.	MAX. TIP SPEED	DRIVE	MOTOR BHP	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	MFR.	MODEL	WEIGHT (LBS)	DAMPER	CONTROL	REMARKS
EF-1	A	TOILETS	UP-BLAST	350	1/2"	1370	3900	BELT	.09	1/4	120	1	GREEN-HECK	CUBE 95	52	BACK DRAFT	INTERLOCK W/AH-1	WITH 7" HIGH CURB
EF-2 EF-2A	E	SCIENCE F-2	UP-BLAST	900	3/8"	1040	3500	BELT	.01	1/4	120	1	GREEN-HECK	CUBE 120	56	BACK DRAFT	INTERLOCK W/ HV-2	WITH 7" HIGH CURB
EF-3 EF-3A	F	SCIENCE F-1	UP-BLAST	1100	3/8"	1060	3600	BELT	.15	1/4	120	1	GREEN-HECK	CUBE 130	58	BACK DRAFT	INTERLOCK W/HV-3	WITH 7" HIGH CURB
EF-4	F	STORAGE	UP-BLAST	800	1/4"	1180	3400	BELT	.09	1/4	120	1	GREEN-HECK	CUBE 100	52	BACK DRAFT	INTERLOCK W/HV-4	WITH 7" HIGH CURB
EF-5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	NOT USED
EF-6 EF-6A	F	SCIENCE F-2	UP-BLAST	1100	3/8"	1060	3600	BELT	.15	1/4	120	1	GREEN-HECK	CUBE 130	58	BACK DRAFT	INTERLOCK W/HV-5	WITH 7" HIGH CURB
EF-7 EF-7A	F	SCIENCE F-3	UP-BLAST	900	3/8"	1040	3500	BELT	.1	1/4	120	1	GREEN-HECK	CUBE 120	56	BACK DRAFT	INTERLOCK W/HV-6	WITH 7" HIGH CURB
EF-8	H	FOOD SERVICE	UTILITY	4000	1.5	780	1800 OUTLET VELOCITY	BELT	1.8	2	208	3	GREEN-HECK	SBF-18	265	---	INTERLOCK W/HV-11	SEE DETAIL
EF-9 EF-10	K	LOCKERS	UP-BLAST	500	3/8"	1415	4000	BELT	.09	1/4	120	1	GREEN-HECK	CUBE 95	52	BACK DRAFT	INTERLOCK W/HV-20,21	WITH 7" HIGH CURB
EF-11	M	PRACTICE	UP-BLAST	400	1/2"	1415	4000	BELT	.09	1/4	120	1	GREEN-HECK	CUBE 95	52	BACK DRAFT	INTERLOCK W/HV-25	WITH 7" HIGH CURB
EF-12	A	UNIT AH-1	UP-BLAST	4600 MAX. 2-SPEED	1/2"	980	5484	BELT	1.11	1 1/2	208	3	GREEN-HECK	CUBE 200	104	BACK DRAFT	INTERLOCK W/AH-1 CONTROLS	2 SPEED, W/ 7" HIGH CURB

GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	DESCRIPTION	OBD	CONSTRUCTION	MFR.	MODEL NO.	REMARKS
CD-1	CEILING DIFUSER	YES	ALUMINUM	KRUEGER	1100, FRAME 23	LAY-IN, 24"x24" PANEL
CD-2	CEILING DIFFUSER	YES	ALUMINUM	KRUEGER	C 1100, FRAME 22	SURFACE MOUNT
SR-1	SUPPLY REGISTER	YES	ALUMINUM	KRUEGER	5815	HOR. FRONT VANES, VERT. ADJ. REAR VANES
RR-1	RETURN REGISTER	YES	ALUMINUM	KRUEGER	1190, FRAME 23	LAY-IN, 24"x24" PANEL
RR-2	RETURN REGISTER	YES	ALUMINUM	KRUEGER	C 1190, FRAME 22	SURFACE MOUNT
RR-3	RETURN REGISTER	YES	ALUMINUM	KRUEGER	EGC-5	SURFACE MOUNT
RR-4	RETURN REGISTER	YES	ALUMINUM	KRUEGER	EGC-5	LAY-IN, 24"x24" PANEL
RR-5	RETURN REGISTER	YES	ALUMINUM	KRUEGER	5810	HORIZ. FRONT VANES
ER-1	EXHAUST REGISTER	YES	ALUMINUM	KRUEGER	5810	HORIZ. FRONT VANES
ER-2	EXHAUST REGISTER	YES	ALUMINUM	KRUEGER	C 1190, FRAME 22	SURFACE MOUNT
ER-3	EXHAUST REGISTER	YES	ALUMINUM	KRUEGER	EGC-5	SURFACE MOUNT
ER-4	EXHAUST REGISTER	YES	ALUMINUM	KRUEGER	EGC-5	LAY-IN, 24"x24" PANEL
ER-5	EXHAUST REGISTER	YES	ALUMINUM	KRUEGER	1190, FRAME 23	LAY-IN, 24"x24" PANEL
EG-1	EXHAUST GRILLE	NO	ALUMINUM	KRUEGER	1190, FRAME 23	LAY-IN, 24"x24" PANEL
EG-2	EXHAUST GRILLE	NO	ALUMINUM	KRUEGER	EGC-5	SURFACE MOUNT
EG-3	EXHAUST GRILLE	NO	ALUMINUM	KRUEGER	EGC-5	LAY-IN, 24"x24" PANEL
RG-1	RETURN GRILLE	NO	ALUMINUM	KRUEGER	EGC-5	LAY-IN, 24"x24" PANEL

A.C. UNIT SCHEDULE

MARK	SPACE SERVED	LOCATION	TEMPERATURES O.A.	TEMPERATURES ENT DB	TEMPERATURES ENT WB	TOTAL COOLING BTU/HR	SENS. BLE BTU/HR	ELECTRICAL	APPROX. DIMENSIONS	WEIGHT	EER SEER	MAKE & MODEL	REMARK
AC-1	BLDG 'A' COMM.	THRU WALL	95	80	67	12,000	8060	6.4 AMPS 15 AMPS MIN. CIRCUT 208 VOLTS	42"Lx16-1/16"H 20-3/4"TOTAL DEPTH 7" IN ROOM	130 LBS	10.6	TRANE PTEC-12	W/WALL SLEEVE AND CONTROLS

NOTES:

1. FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.
2. EACH SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CFM IN GROUP A1.2. AND 2.1; GROUP B2, AND E OCCUPANCIES SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. SHUTOFFS SHALL STOP THE AIR-MOVING EQUIPMENT WHEN SMOKE IS DETECTED IN SUPPLY OR RETURN AIR DUCTS OR WHEN SMOKE IS DETECTED IN ROOMS SERVED BY THE SYSTEM. WHEN THE SYSTEM SERVES MORE THAN ONE OCCUPANCY, SHUTOFFS SHALL BE PROVIDED. EXCEPTIONS: DETECTORS NEED NOT BE INSTALLED WHEN ROOMS HAVE A DIRECT EXIT TO THE EXTERIOR OR WHEN SYSTEMS ARE DESIGNED FOR SMOKE CONTROL. (SEC. 1009, CMC)
3. AIR FILTERS SHALL BE A STATE FIRE MARSHAL APPROVED AND LISTED TYPE. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN IN THE STATE FIRE MARSHAL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
4. FIRE DAMPERS SHALL BE PROVIDED AS REQUIRED BY SECTION 713 (), CALIFORNIA BUILDING CODE. SHOW REQUIRED LOCATION ON THE DRAWINGS AND PROVIDE TYPICAL DETAILS FOR BOTH VERTICAL AND HORIZONTAL INSTALLATION.
5. DUCT PENETRATIONS THROUGH THE PROTECTIVE ELEMENTS OF FIRE-RATED CORRIDOR WALLS SHALL BE PROTECTED BY COMBINATION FIRE/SMOKE DAMPERS. THE DAMPERS SHALL CONFORM TO U.B.C. STANDARD 43-7 AND 43-12 WITH A MINIMUM LEAKAGE CLASSIFICATION OF III., EXCEPTION: A MINIMUM OF 26 GAUGE STEEL DUCTS DO NOT REQUIRE COMBINATION FIRE/SMOKE DAMPERS WHEN THE DUCTS HAVE NO OPENINGS INTO THE CORRIDOR. (SEC. 4306(j) 5. CBC)

MAY 05 1999
REVISED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL 61964
AC FLS
DATE

LICENSED ARCHITECT GLENN F GROTH C-12939 REN 8-31-99

REGISTERED PROFESSIONAL ENGINEER RALPH H. BLAZ 19171 MECHANICAL STATE OF CALIFORNIA

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PROJECT TITLE: JEFFERSON JR HIGH MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569/00-02

GROTH ARCHITECTS

PROJECT

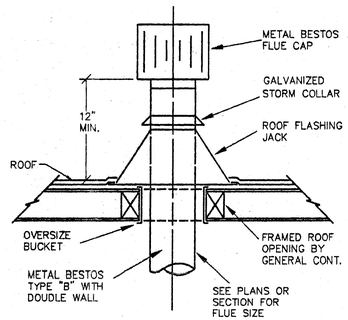
DRAWN CSE

DATE 8/4/98

REVISIONS 1- 8/4/98

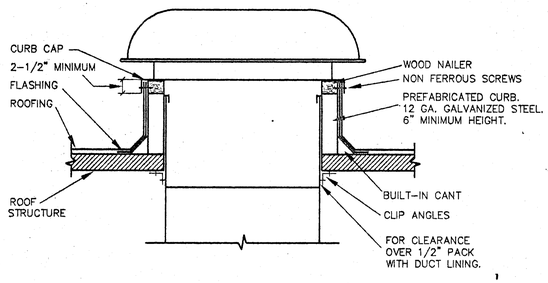
SHEET TITLE: MECHANICAL SCHEDULES

M7



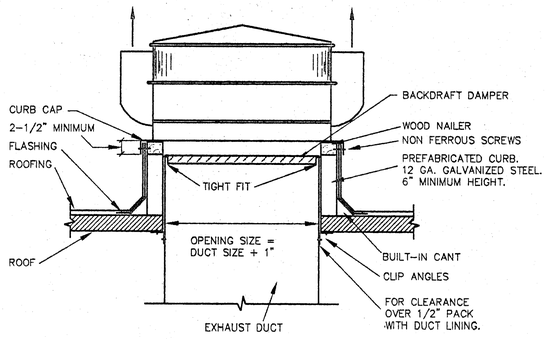
1 FLUE TERMINATION THRU ROOF

NO SCALE



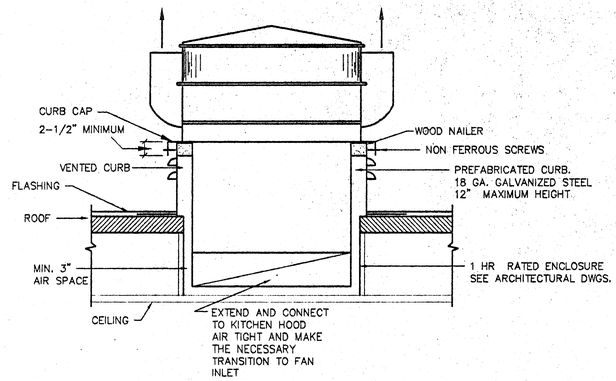
2 INTAKE HOOD DETAIL

NO SCALE



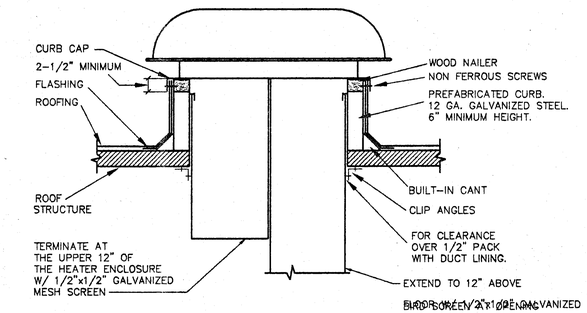
3 ROOF EXHAUST FAN DETAIL

NO SCALE



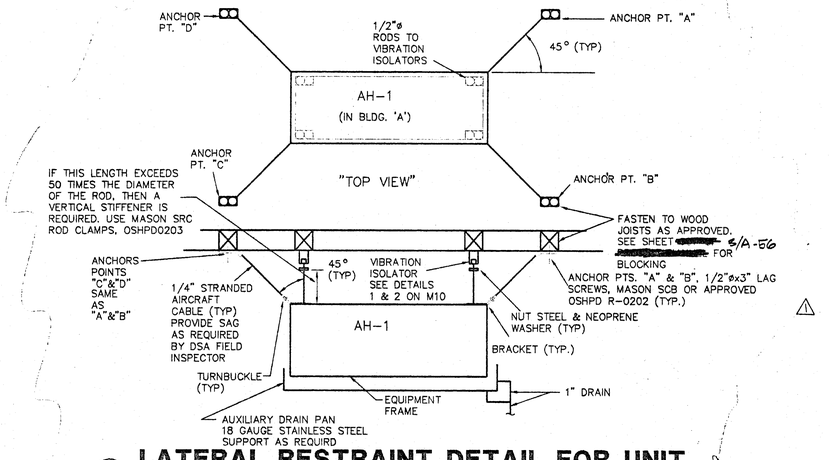
4 ROOF EXHAUST FAN DETAIL

NO SCALE (EF-8)



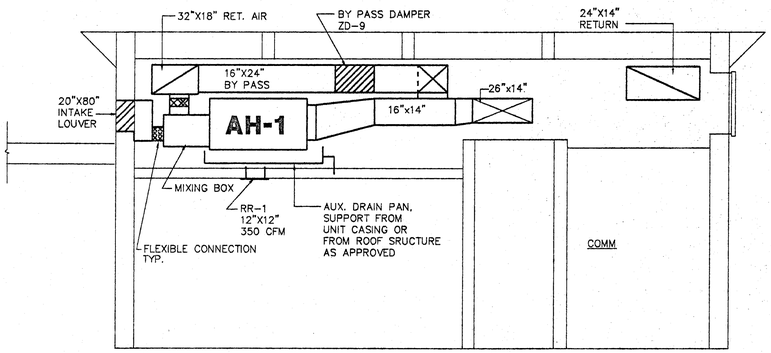
5 INTAKE VENTILATOR DETAIL

NO SCALE



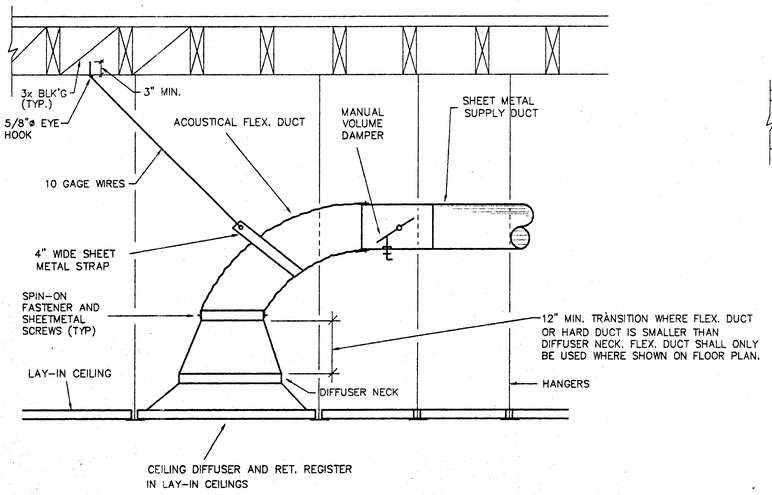
6 LATERAL RESTRAINT DETAIL FOR UNIT

NO SCALE



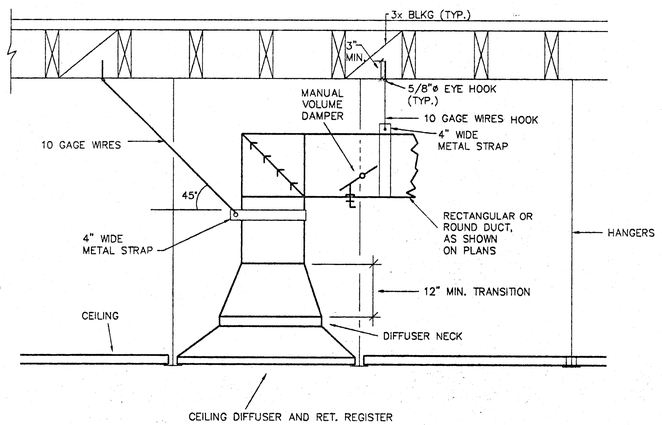
7 SECTION

NO SCALE (A / M-1)



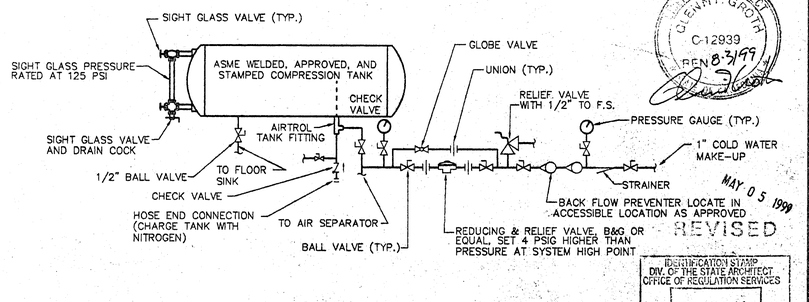
8 CEILING DIFFUSER AND REGISTER DETAIL

NO SCALE



9 CEILING DIFFUSER AND REGISTER DETAIL

NO SCALE



10 COMPRESSION TANK PIPING DETAIL

NO SCALE

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JEFFERSON JR HIGH MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569/00-02

PROJECT

DRAWN CSE

DATE 8/4/98

REVISIONS
1- 8/4/98

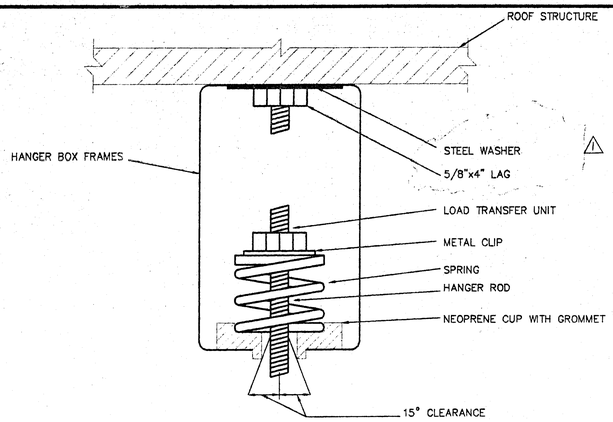
REGISTERED ARCHITECT GLENN F. GROTH C-12939 REN 8-31-99

MAY 05 1999 REVISED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 61964 AC FLS SS DATE

SHEET TITLE
MECHANICAL DETAILS

M9



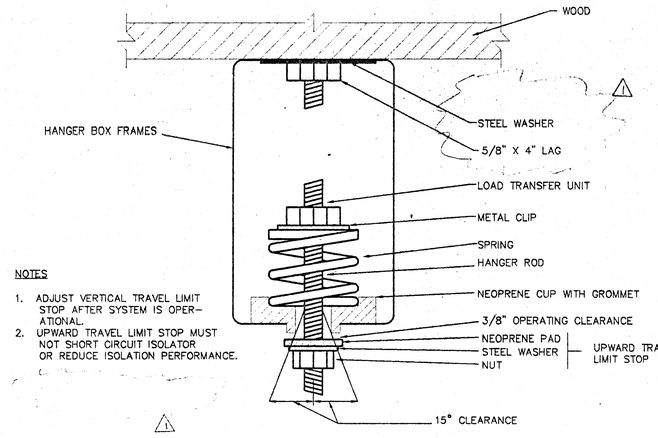
NOTES

1. WHEN MOUNTING EQUIPMENT, ALIGN HANGER ROD TO CLEAR HANGER BOX.
2. MOUNT HANGER BOX DIRECTLY AGAINST STRUCTURAL ELEMT. DO NOT SUPPORT HANGER FROM SLAB DIAPHRAMS.
3. POWDER-DRIVEN FASTENERS (SHOTS) NOT ALLOWED.

1 ISOLATOR TYPE H.S. - SPRING HANGER

NO SCALE

MASON TYPE 30, FOR SEISMIC RESTRAINT REFER TO SCB, DETAIL 6 ON M9 ⚠1



NOTES

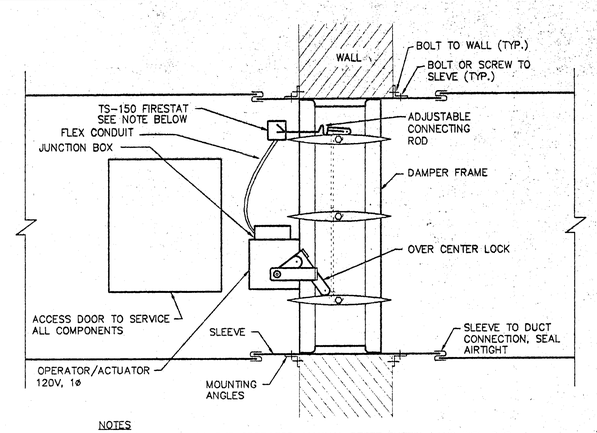
1. ADJUST VERTICAL TRAVEL LIMIT STOP AFTER SYSTEM IS OPERATIONAL.
2. UPWARD TRAVEL LIMIT STOP MUST NOT SHORT CIRCUIT ISOLATOR OR REDUCE ISOLATION PERFORMANCE.

⚠1

2 VIBRATION ISOLATOR DETAIL

NO SCALE

MASON TYPE 30, FOR SEISMIC RESTRAINT REFER TO SCB, DETAIL 6 ON M9 ⚠1

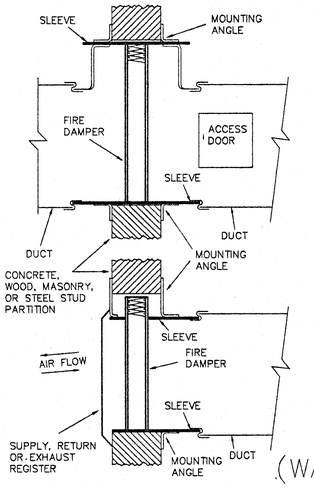


NOTES

1. FIRESTAT WITH DAMPER OPERATOR, MANUAL RESET BUTTON, AND WITH TWO AUXILIARY DRY CONTRACT SWITCHES, 120V, 1ø.
2. THE UNIT SHALL BE EQUAL TO RUSKIN FSD60, UL555S, STATE FIRE MARSHALL LISTING NO.3225-245:102.

3 FIRE AND SMOKE DAMPER DETAIL

NO SCALE



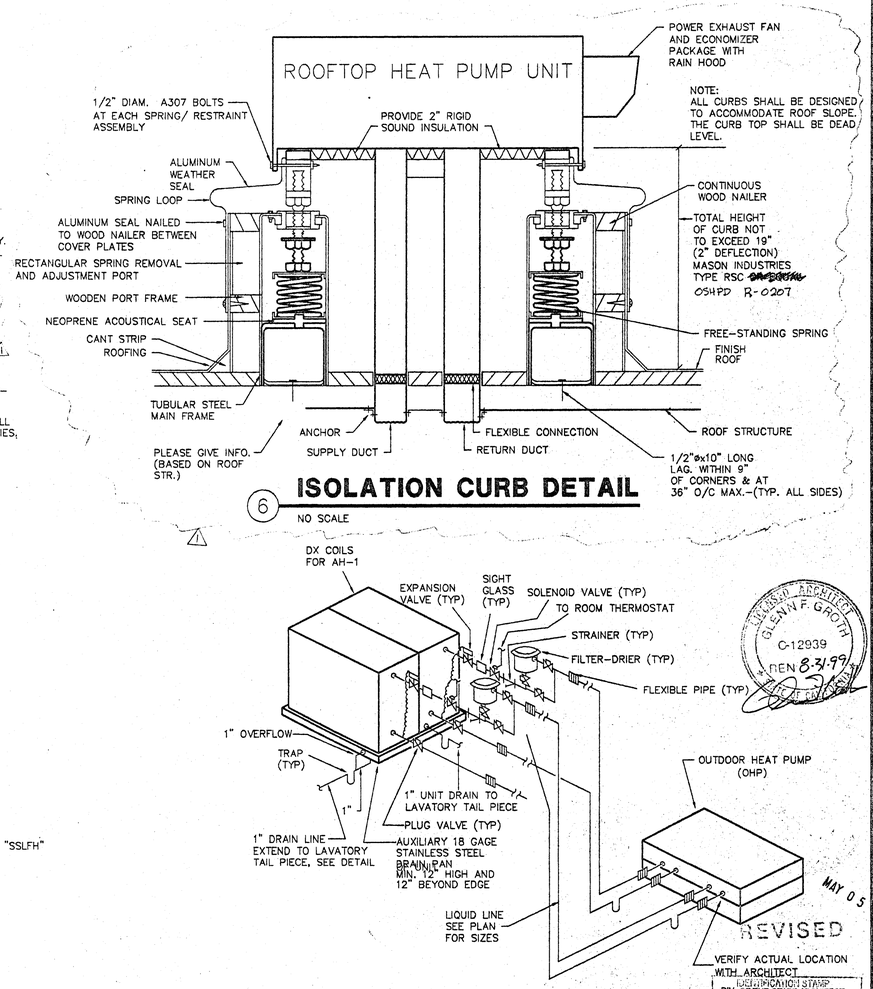
NOTES

1. 16 GAUGE ANGLE FRAME WELDED, BOLTED OR SCREWED TO ALL FOUR SIDES OF SLEEVE. ANGLE FRAME SHALL BE DESIGNED TO LAP WALL OPENING NOT LESS THAN ONE (1") INCH. ROUGH OPENING IN MASONRY WALLS AND NET OPENING IN FRAME WALLS SHALL EXCEED NET O.D. OF THE DAMPER ASSEMBLY BY 1/8" FOR EACH FOOT OF WIDTH AND HEIGHT OF DAMPER ASSEMBLY. DO NOT FASTEN SIDES OR TOP OF ANGLE TO WALL OR PARTITION.
2. ALL FIRE DAMPERS SHALL BE U.L. LABELED AND LISTED. ALL FIRE DAMPERS SHALL BE INSTALLED PER U.L. LISTING NO. 555 AND FILE NO. R5531, OR CALIFORNIA STATE FIRE MARSHAL MATERIAL LISTING NO. 3225-245:005 WHICHEVER PREVAILS. TERRI AIR BALANCE RUSKIN OR APPROVED EQUAL. ⚠1
3. FIRE DAMPER DETAIL FOR REFERENCE ONLY.
4. FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
5. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.

(WALL TYPE)

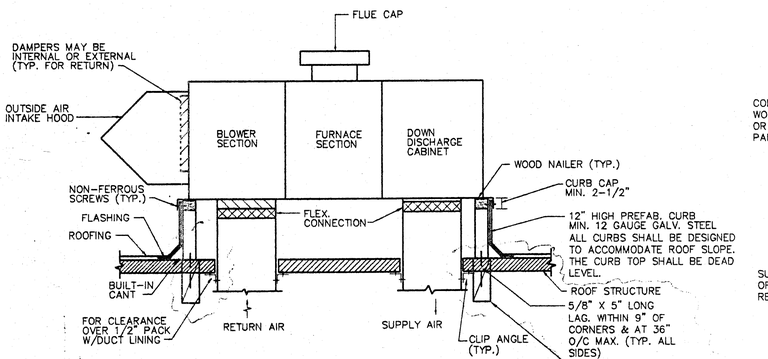
5 FIRE DAMPER DETAIL

NO SCALE



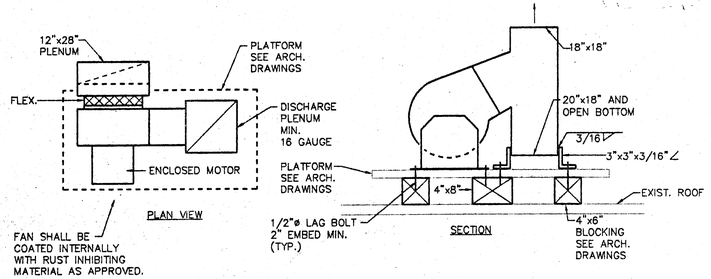
6 ISOLATION CURB DETAIL

NO SCALE



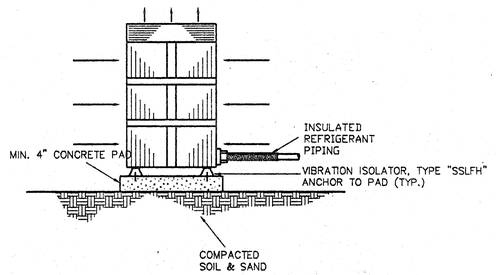
4 HEATING AND VENTILATING UNIT

NO SCALE



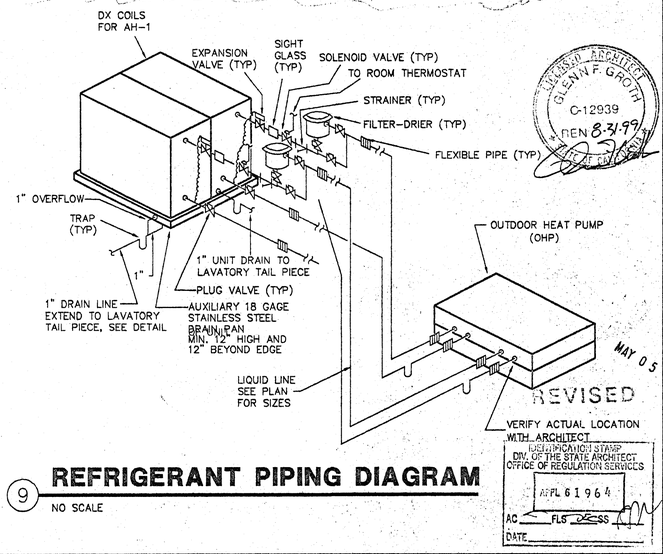
7 EF-8 DETAIL

NO SCALE



8 OUTDOOR HEAT PUMP DETAIL

NO SCALE



9 REFRIGERANT PIPING DIAGRAM

NO SCALE

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APPLICATION # 77/73569/00-02

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GROTH ARCHITECTS

PROJECT TITLE

PROJECT

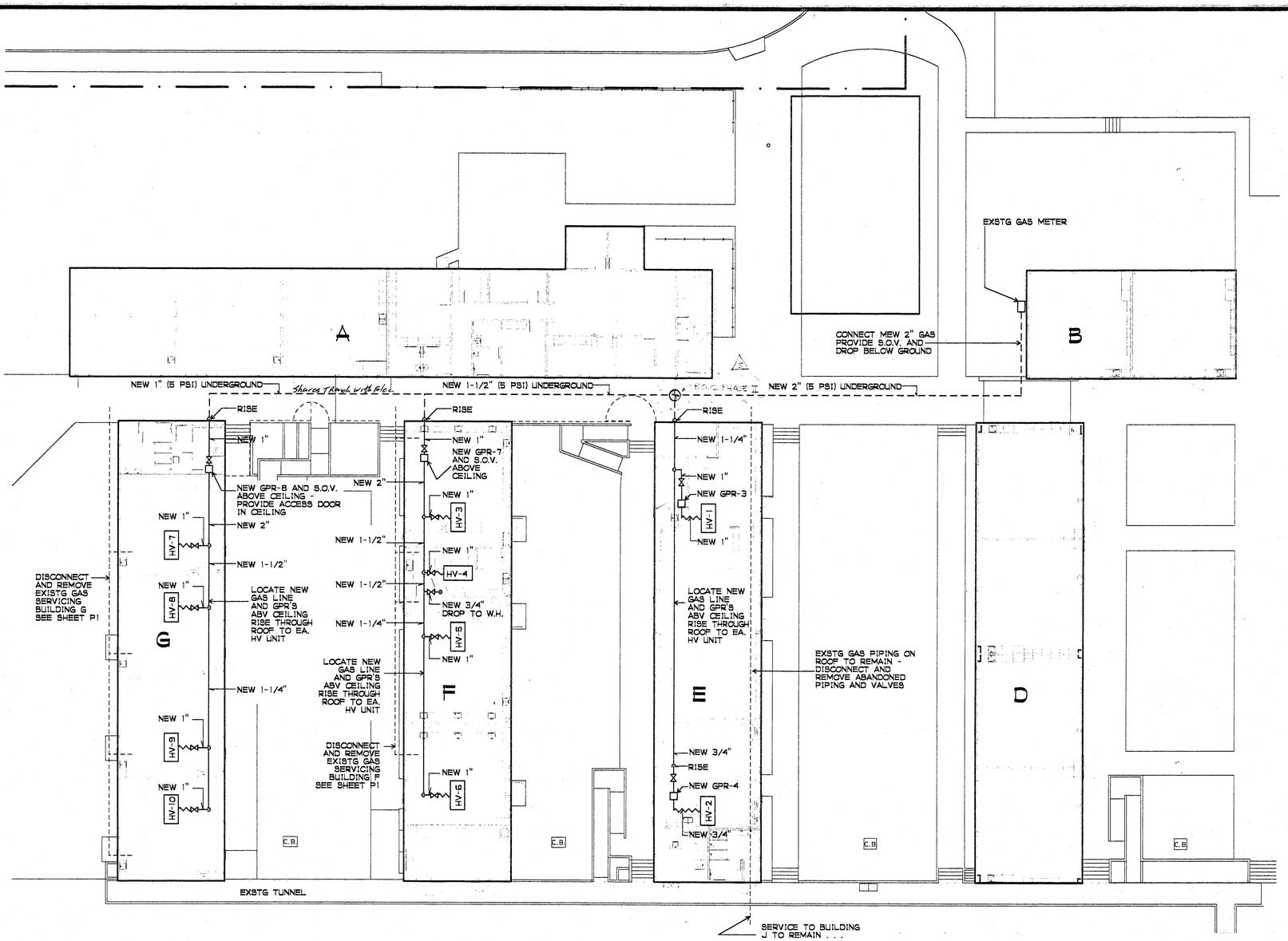
DRAWN
CSE

DATE
8/4/98

REVISIONS
1 - 8/4/98

SHEET TITLE
MECHANICAL DETAILS

M10



GAS DISTRIBUTION - BUILDINGS E, F, AND G

1/16" = 1'-0"

NOTE SEE SHEET P1 FOR GAS SERVICE TO OTHER BUILDINGS

MAY 0 5 1999

DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE # 01964
ACCESS
DATE

LICENSED ARCHITECT
GLENN F. GROTH
C-12939
REN 8/31/1999
STATE OF CALIFORNIA

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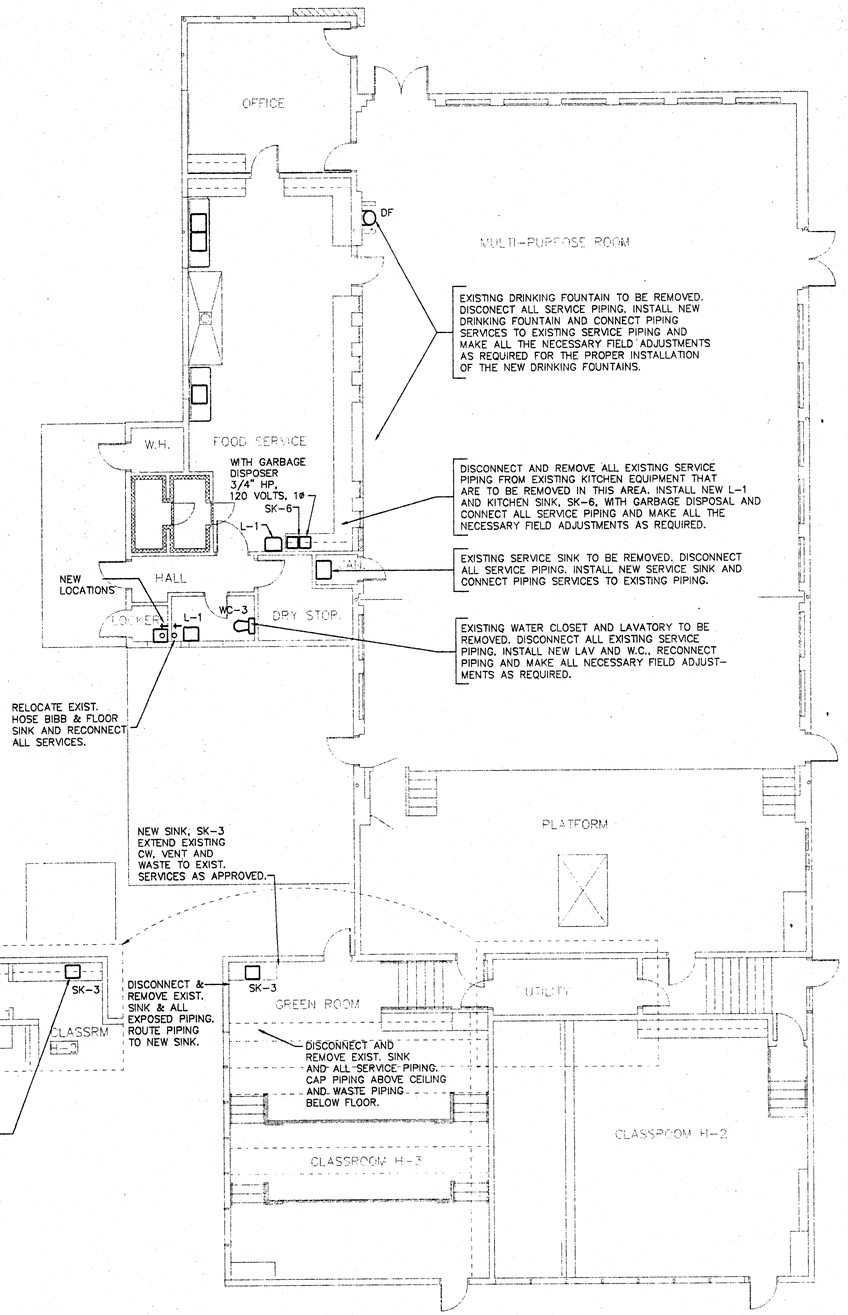
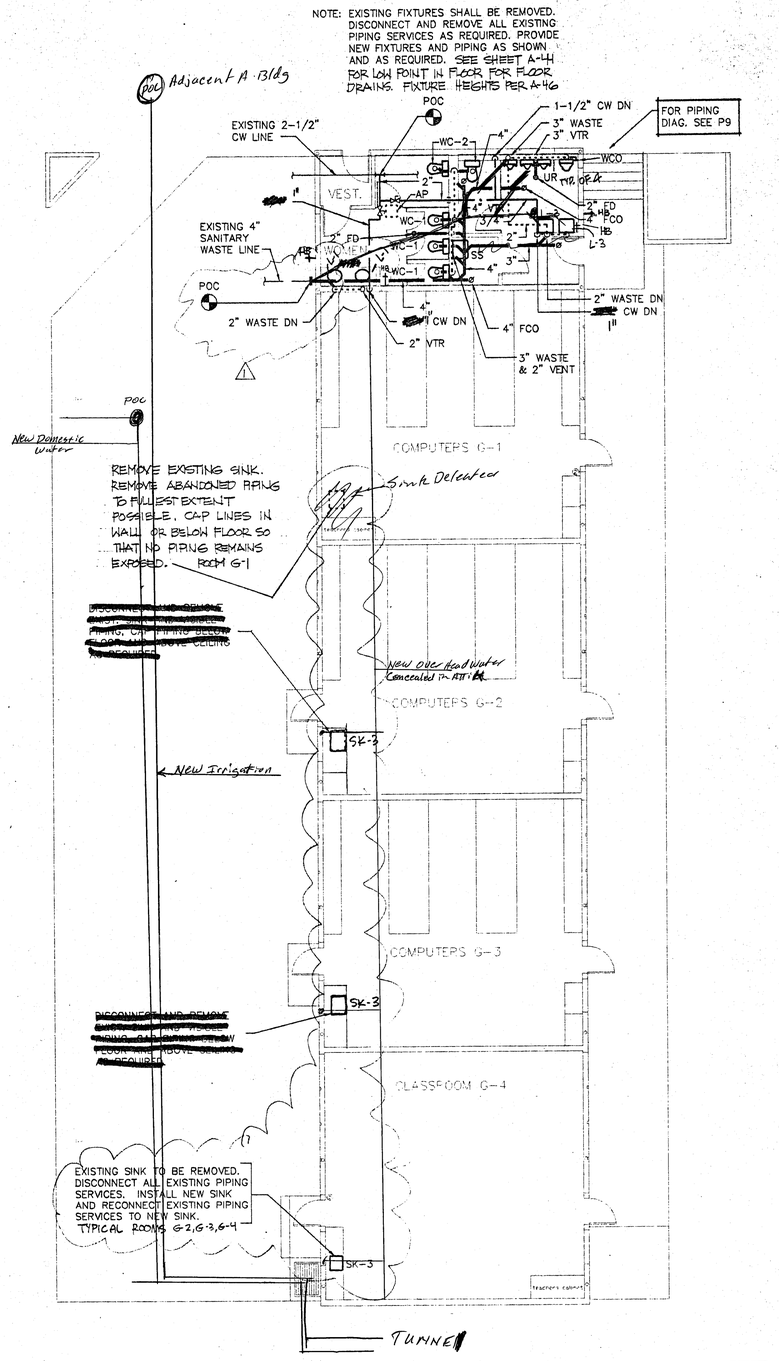
JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

PROJECT 92043-02
DRAWN JSG
DATE 8/21/1998
REVISIONS
MAY 7, 1999

SHEET TITLE
SITE PLAN
GAS DISTRIBUTION
BLDGS E, F, G

P1-A





BUILDINGS "G" AND "H" PLUMBING FLOOR PLAN

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

REGISTERED PROFESSIONAL ENGINEER — RALPH H. BILAL — 19171 — MECHANICAL — STATE OF CALIFORNIA

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OCEANSIDE UNIFIED SCHOOL DISTRICT
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PROJECT

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CSE

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1- 8/4/98

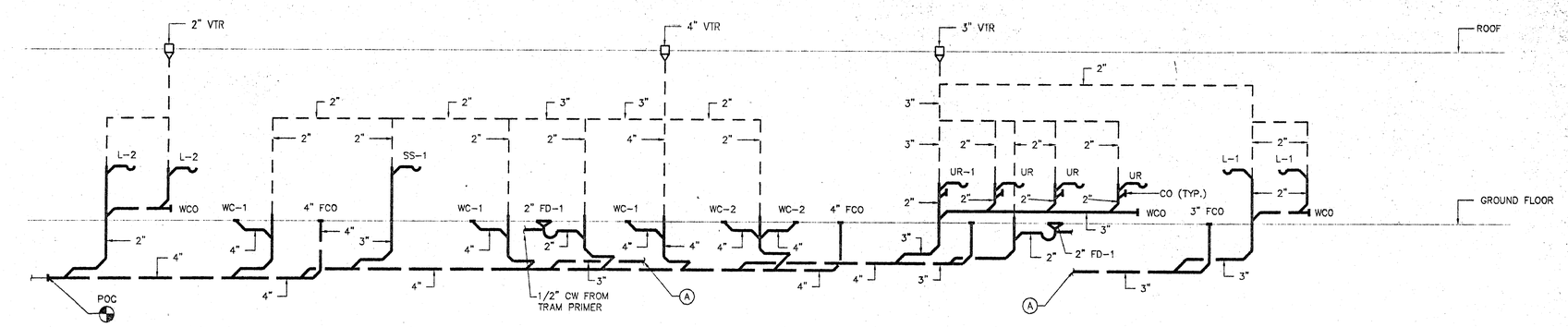
REGISTERED ARCHITECT — GLENN F. GROTH — C-12939 — REN 8-31-99

MAY 05 1999 REVISED

IDENTIFICATION STAMP — DIV. OF THE STATE ARCHITECT — OFFICE OF REGULATION SERVICES — FL 61964 — AC — FLS — DATE

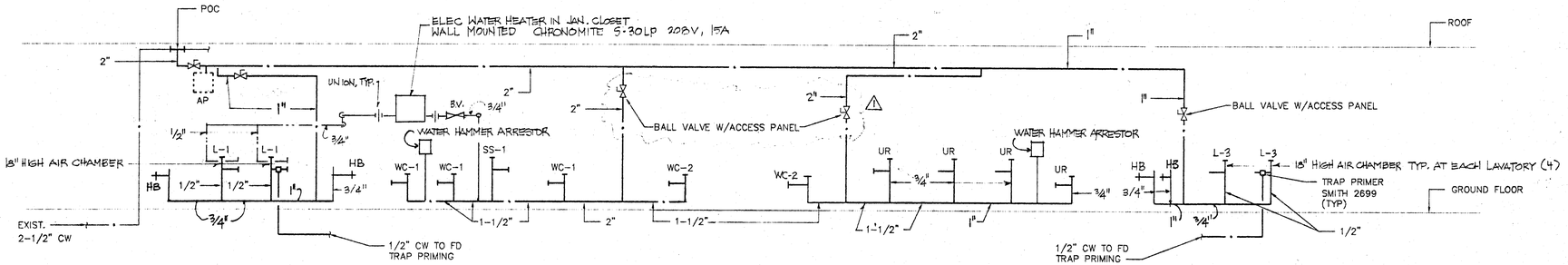
SHEET TITLE
BUILDINGS "G" & "H" FLOOR PLANS

P5



SANITARY WASTE AND VENT PIPING DIAGRAMS BUILDING "G"

NOT TO SCALE



DOMESTIC COLD WATER PIPING DIAGRAMS BUILDING "G"

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER RALPH H. BILAL 19171 MECHANICAL STATE OF CALIFORNIA

CONSULTANTS: MECHANICAL ELECTRICAL
CSE CREATIVE SYSTEMS ENGINEERS, INC.
7750 El Camino Real
Carlsbad, CA 92009
(760) 633-4600

PROJECT TITLE
JEFFERSON JR HIGH MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569/00-02

708 CIVIC CENTER DRIVE
OCEANSIDE, CA 92054
PHONE (760) 754-8191
FAX (760) 754-8291

GROTH ARCHITECTS

PROJECT

DRAWN CSE

DATE 8/4/98

REVISIONS 1- 8/4/98

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8-31-99

MAY 05 1999 REVISED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 61964
AC FLS CE SS
DATE

SHEET TITLE
PLUMBING DIAGRAMS

P9

PLUMBING FIXTURES SCHEDULE AND REQUIREMENT

TYPE	DESCRIPTION	FIXTURE MANUFACTURER	FIXTURE CATALOG NUMBER	FAUCET MANUFACTURER	FAUCET CATALOG NUMBER	PLUMBING REQUIREMENT WASTE	TRAP	VENT	H.W.	C.W.	REMARKS
WC-1	WATER CLOSET	AMERICAN STANDARD	MADERA 2305.100	SLOAN	ROYAL 111	4"	W/UNIT	2"	–	1 1/2"	FLOOR MOUNTED, FLUSH VALVE, 1.5 GPF, OLSONITE 95CC-SS SEAT
WC-2	WATER CLOSET	AMERICAN STANDARD	CADET 3043.102	SLOAN	ROYAL 111	4"	W/UNIT	2"	–	1 1/2"	FLOOR MOUNTED, FLUSH VALVE, ~~HANDICAPPED~~ HEIGHT, 1.6 GPF, OLSONITE 95CC-SS SEAT — WHEELCHAIR ACCESSIBLE
WC-3	WATER CLOSET	AMERICAN STANDARD	CADET 2168.100	–	–	4"	W/UNIT	2"	–	3/4"	FLOOR MOUNTED, TANK TYPE, ~~HANDICAPPED~~ HEIGHT, 1.6 GPF, PRESSURE ASSISTED, OLSONITE 95 CC-SS SEAT. — WHEELCHAIR ACCESSIBLE
UR	URINAL	AMERICAN STANDARD	ALLBROOK 6541.132	SLOAN	ROYAL 186-1	2"	2"	1 1/2"	–	3/4"	WALL HUNG, MOUNT ~~HANDICAPPED~~ URINALS AT HEIGHT AS REQUIRED BY GOVERNING AGENCIES — WHEELCHAIR ACCESSIBLE
L-1	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	SYMMONS	SCOT S-60-G-H	1 1/2"	1 1/2"	1 1/2"	SEE NOTE	1/2"	WALL HUNG LAV, METERING FAUCET W/ TEMP. SELECTION, GRID DRAIN, LOOSE KEY STOPS, RIGID SUPPLY, MOUNT ~~HANDICAPPED~~ LAV'S AS REQUIRED BY GOVERNING AGENCIES — WHEELCHAIR ACCESSIBLE
L-2	LAVATORY	AMERICAN STANDARD	AFFINITY 3420.403	SYMMONS	SCOT S-60-G-H	1 1/2"	1 1/2"	1 1/2"	SEE NOTE	1/2"	COUNTERTOP, METERING FAUCET W/ TEMP. SELECTION, GRID DRAIN, LOOSE KEY STOPS, RIGID SUPPLY
L-3	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	SYMMONS	S-61-G	1 1/2"	1 1/2"	1 1/2"	1/2"	–	WALL HUNG, ~~HANDICAPPED~~ HEIGHT, SAME AS L-1 EXCEPT SINGLE TEMPERATURE METERING FAUCET. — WHEELCHAIR ACCESSIBLE
L-4	LAVATORY	AMERICAN STANDARD	AFFINITY 3420.403	SYMMONS	S-61-G	1 1/2"	1 1/2"	1 1/2"	1/2"	–	COUNTERTOP SAME AS L-2 EXCEPT SINGLE TEMPERATURE METERING FAUCET
SS	SERVICE SINK	STANDARD ELSMERE	70-W	AMERICAN STANDARD	PRESIGE 2362.221	2"	2"	1 1/2"	SEE NOTE	1/2"	WALL MOUNTED, 23" W x 23 1/2" D x 35" H, PRECAST TERRAZO, SUPPORT FROM WALL FRAMING BOTTOM AND SIDES WITH STEEL BRACKETS AS APPROVED, LEVER HANDLES, METAL POP-UP DRAIN, SWIVEL SPOUT
SK-1	SINK	JUST	COUNTERTOP SL-2125-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 8" DEEP, SWIVEL GOOSENECK
SK-2	SINK	JUST	COUNTERTOP SL-2019-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 7 1/2" DEEP, SWIVEL GOOSENECK
SK-3	SINK	JUST	HCRB-2225-A-GR	CHICAGO FAUCET [redacted]	796-E3-665-CW [redacted]	2"	2"	1 1/2"	SEE NOTE	1/2"	18 GAUGE STAINLESS STEEL, 4-1/2" DEEP, SWIVEL GOOSENECK, W/ BUBBLER ON RIGHT SIDE
SK-4	SINK	JUST	DL-2137-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	DOUBLE COMPARTMENT, 18 GAUGE STAINLESS STEEL, 7 1/2" DEEP, SWIVEL GOOSENECK
SK-5	SINK	JUST	DLXD-2233-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	DOUBLE COMPARTMENT, 18 GAUGE STAINLESS STEEL, 12" DEEP, SWIVEL GOOSENECK
SK-6	SINK	JUST	DLXD-2249-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	DOUBLE COMPARTMENT, 18 GAUGE STAINLESS STEEL, 12" DEEP, SWIVEL GOOSENECK
SK-7	SINK	JUST	DLX-2233-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	DOUBLE COMPARTMENT, 18 GAUGE STAINLESS STEEL, 10 1/2" DEEP, SWIVEL GOOSENECK
SK-8	SINK	JUST	SL-2233-A-GR	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 7 1/2" DEEP, SWIVEL GOOSENECK
SK-9	SINK	AMFLEX	181250-C 18x12x5	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	SINGLE BOWL, ACID RESISTANT, GLASS REINFORCED POLYESTER RESIN, SWIVEL GOOSE NECK
SK-10	SINK	AMFLEX	241880-C 24x18x8	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	SINGLE BOWL, ACID RESISTANT, GLASS REINFORCED POLYESTER RESIN, SWIVEL GOOSE NECK
SK-11	SINK	AMFLEX CUSTOM MADE	18x14x4-1/2 HC ACCESSIBLE	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	SINGLE BOWL, ACID RESISTANT, GLASS REINFORCED POLYESTER RESIN, SWIVEL GOOSE NECK
SK-12	SINK	AMFLEX	241810-C 24x18x10	JUST	J-1174KS	2"	2"	1 1/2"	SEE NOTE	1/2"	DOUBLE BOWL, ACID RESISTANT, GLASS-REINFORCED POLYESTER-RESIN, SWIVEL GOOSENECK
WF-1	WASH FOUNTAIN	BRADLEY	2903	–	–	2"	2"	2"	–	3/4"	36" TRI-FOUNTAIN, PRECAST TERRAZZO, EACH SPRAY NOZZLE TO BE AT 0.5 GPM, CONTROLLED BY INDEPENDENT PUSH BUTTON, UNIT SHALL BE COMPLETE WITH VALVES, STRAINER, VANDAL RESISTANT ACCESS PANEL
WF-2	WASH FOUNTAIN	BRADLEY	2904	–	–	2"	2"	2"	–	3/4"	46" QUADRA-FOUNTAIN, PRECAST TERRAZZO, EACH SPRAY NOZZLE TO BE AT 0.5 GPM, CONTROLLED BY INDEPENDENT PUSH BUTTON, UNIT SHALL BE COMPLETE WITH VALVES, STRAINER, VANDAL RESISTANT ACCESS PANEL
DF	DRINKING FOUNTAIN	HAWS	1005	–	–	1 1/2"	1 1/2"	1 1/2"	–	1/2"	NO.4 SATIN FINISH, STAINLESS STEEL, COMPLETE WITH PRESSURE REGULATOR, ADJUSTABLE FLOW, PUSH BUTTON BUBBLER, ACCESS PANEL AND ALL ACCESSORIES, SUPPORT FROM WALL STRUCTURE AS APPROVED, HANDICAPPED HEIGHT
DF-2	DRINKING FOUNTAIN	HAWS	1011	–	–	1 1/2"	1 1/2"	1 1/2"	–	3/4"	NO.4 SATIN FINISH, STAINLESS STEEL, COMPLETE WITH PRESSURE REGULATOR, ADJUSTABLE FLOW, PUSH BUTTON BUBBLER, ACCESS PANEL AND ALL ACCESSORIES, SUPPORT FROM WALL STRUCTURE AS APPROVED, HANDICAPPED HEIGHT
SH-1	COLUMN SHOWER	BRADLEY	5CB	–	–	3"	3"	2"	3/4"	–	2.5 GPM FLOW, 6'-0" HEAD HEIGHT, PRESSURE BALANCED TOUCH AND FLOW METERING VALVES, COLUMN EXTENSION TO CEILING AND CEILING FLANGE, AND ALL THE NECESSARY ACCESSARIES
SH-2	SHOWER	–	–	CHICAGO FAUCET	770 VALVE 151-WV SHOWER ASSEMBLY	2" DRAIN SAME AS FD INFO.	1-1/2"	1-1/2"	1/2"	–	MAX. 2.5 GPM FLOW CONTROL, SHOWER HEAD W/ WHITE REINFORCED VINYL HOSE, 24" SLIDE BAR W/ SLIDE BRACKET, FASTEN AS APPROVED
FD	FLOOR DRAIN	J.R. SMITH	2005-A-P	–	–	2"	2"	1 1/2"	–	–	CAST IRON, ROUND NICKEL BRONZE TOP, CLAMPING COLLAR, TRAP PRIMER, P-TRAP
FS	FLOOR SINK	J.R. SMITH	3100	–	–	3"	3"	–	–	–	CAST IRON, DOME BOTTOM STRAINER, NICKLE-BRONZE HALF GRATE

NOTE: PROVIDE 1/2" H.W. TO LAVATORIES AND SINKS WHERE H.W. AND C.W SERVICES ARE SHOWN ON THE DRAWINGS.

SEE SHEET P11A OF THIS PROJECT MANUAL

PLUMBING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
	AP	ACCESS PANEL
	BV	BALL VALVE
CD	CD	CONDENSATE DRAIN
CW	CW	COLD WATER
	DN	PIPE DOWN
	FCO	FLOOR CLEAN OUT
G	G	GAS LINE
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
	POC	POINT OF CONNECTION
	PRV	PRESSURE REDUCING VALVE
	SOV	SHUT-OFF VALVE
	SRV	SAFETY RELIEF VALVE
	STR	STRAINER
TW	TW	TEMPERED WATER
TWR	TWR	TEMPERED WATER RETURN
	UP	PIPE UP
V	V	VENT LINE
W	W	UNDERGROUND WASTE LINE
W	W	ABOVEGROUND WASTE LINE
	–	UNION
	C.O.	CLEAN OUT
	DF	DRINKING FOUNTAIN
	EWC	ELECTRIC WATER COOLER
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	FU	FIXTURE UNIT
	HB	HOSE BIBB
	L, LAV	LAVATORY
	LPG	LOW PRESSURE GAS
	MPG	MEDUM PRESSURE GAS
	SK	SINK
	SS	SERVICE SINK
	UR	URINAL
	VTR	VENT THRU ROOF
	WC	WATER CLOSET
	WCO	WALL CLEAN OUT
	WF	WASH FOUNTAIN
	WH	WATER HEATER

GAS PRESSURE REGULATOR SCHEDULE

MARK	BUILDING SERVED	CFH	OUTLET PRESSURE RANGE	INLET SIZE	MAKE	MODEL	OFFICE SIZE	APPROX. METER TO REG. INLET (FT)
GPR-1	B, C & D	540	8-15	3/4"	FISHER	S100	1/2"	180
GPR-2	K	640	8-15	1"	FISHER	S100	5/16"	220
GPR-3	E	318	8-15	3/4"	FISHER	S100	1/4"	150
GPR-4	E	137	8-15	3/4"	FISHER	S100	1/8"	240
GPR-5	J	794	8-15	1"	FISHER	S100	1/2"	290
GPR-6	DELETED	–	–	–	–	–	–	–
GPR-7	F	637	8-15	1"	FISHER	S100	1/2"	230
GPR-8	G	545	8-15	1"	FISHER	S100	5/16"	300
GPR-9	H	1230	8-15	1-1/4"	FISHER	S301	3/4"	450
GPR-10	I	318	8-15	3/4"	FISHER	S100	1/4"	550

WATER HEATER SCHEDULE

MARK	BUILDING	GAS INPUT BTU/HR	GALLONS STORAGE	GPH RECOVERY PER AGA	FLUE SIZE	MAKE & MODEL	WEIGHT (lbs.)	REMARKS
WH-1	F	50,000	50	51.2 AT 90° RISE	4"	A.O. SMITH FSGH-50	170 PLUS WATER	SEE PLAN AND DIAGRAM
WH-2	K	200,000	400	250 AT 80° RISE	4"	PVI 250P400A-TP	1720 PLUS WATER	SEE PLAN AND DIAGRAM

SUMP PUMP SCHEDULE

LOCATION	GPM	FT. HD.	HP	RPM	VOLTS	PHASE	MAKE AND MODEL	REMARKS
BUILDING 'C'	15	18	1/3	1550	120	1	WEIL STA-RITE 300 HT	SUBMERSIBLE, CAST IRON, HIGH TEMP., FLOAT SWITCH, 20'-0" POWER CORD

REVISED
MAY 05 1999

IDENTIFICATION APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 61964
AC FES OC SS
DATE

REGISTERED PROFESSIONAL ENGINEER
RALPH H. BLAL
1971
STATE OF CALIFORNIA

LICENSED ARCHITECT
GLENN F. GROTH
C-12939
REN 8/31/99
STATE OF CALIFORNIA

CONSULTANT'S
MECHANICAL
ELECTRICAL
CSE
CREATIVE SYSTEMS ENGINEERS, INC.
7750 El Camino Real
Carlsbad, CA 92009
(760) 633-4600
PHONE (760) 754-8191
FAX (760) 754-8291

PROJECT TITLE
JEFFERSON JR HIGH MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569/00-02
708 CIVIC CENTER DRIVE
OCEANSIDE, CA 92054

PROJECT

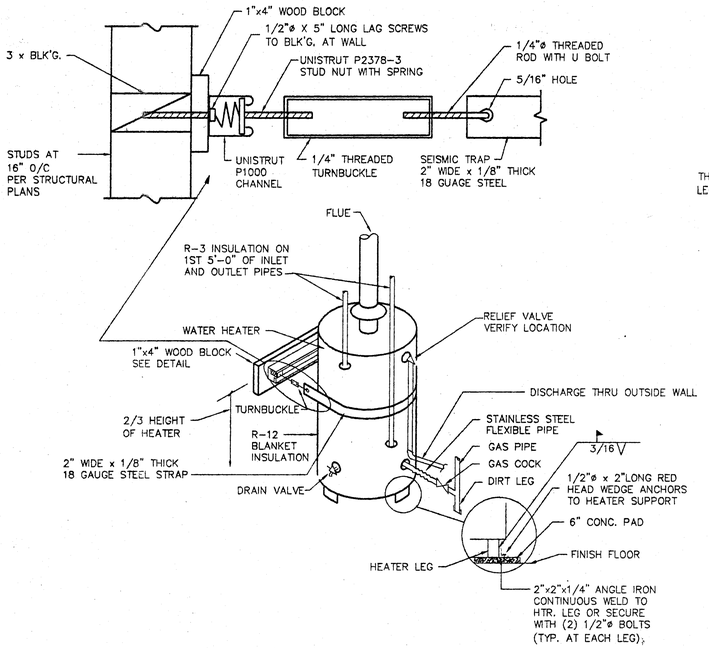
DRAWN
CSE

DATE
8/4/98

REVISIONS
1-8/4/98
⚠ OCT. 1, 1998

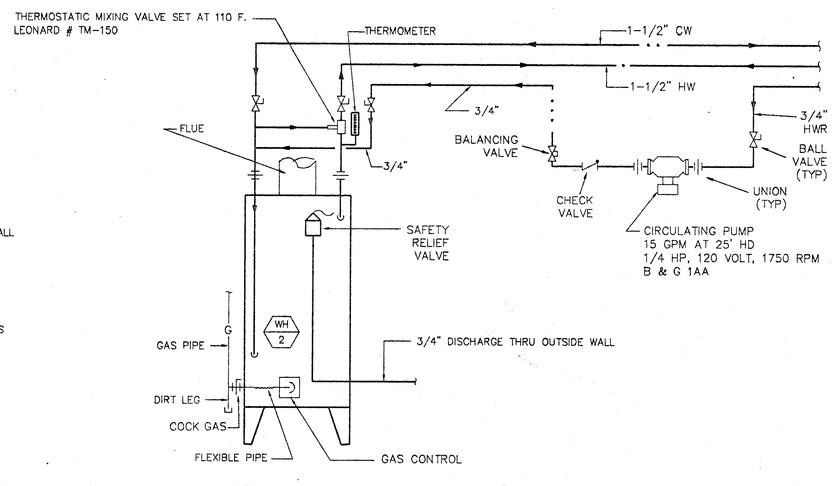
GROTH ARCHITECTS

SHEET TITLE
PLUMBING SCHEDULES



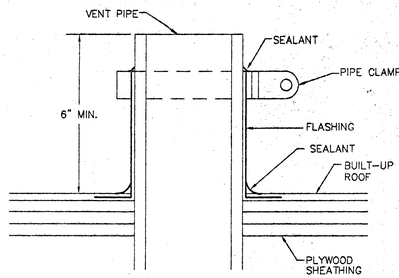
1 HOT WATER HEATER DETAIL

NO SCALE



2 WATER HEATER PIPING DIAGRAM

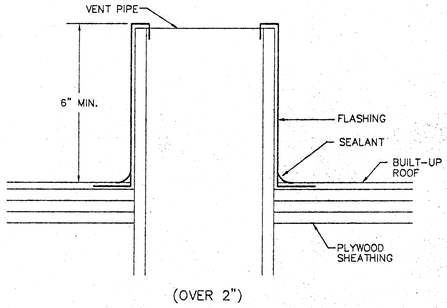
NO SCALE



(2" VENT AND SMALLER)

VENT THRU ROOF DETAIL

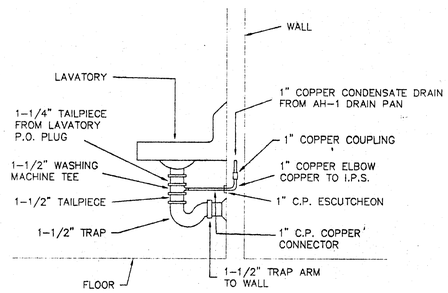
NO SCALE



(OVER 2")

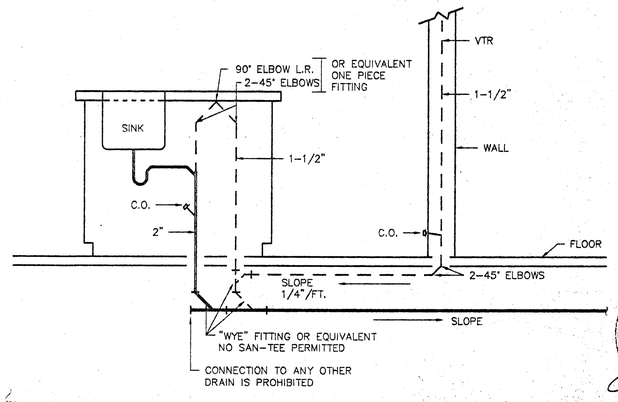
3 VENT THRU ROOF DETAIL

NO SCALE



CONDENSATE CONNECTION FROM AH-1 UNIT

4 NO SCALE (SIMILAR FOR AUX. DRAIN PAN)



SPECIAL VENTING FOR ISLAND FIXTURES REVISED

5 NO SCALE

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8-31-99 MAY 05 1999

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 6 1 9 6 4 AC FLS DATE

LICENSED MECHANICAL ENGINEER RALPH H. BILAS 19177 STATE OF CALIFORNIA

CONSULTANTS: MECHANICAL ELECTRICAL
CSE CREATIVE SYSTEMS ENGINEERS, INC.
7750 El Camino Road Carlsbad, CA 92009 (760) 931-8602

JEFFERSON JR HIGH MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569/00-02

PROJECT TITLE

708 CIVIC CENTER DRIVE PHONE (760) 754-8181
OCEANSIDE, CA 92054 FAX (760) 754-8291

GROTH ARCHITECTS

PROJECT

DRAWN CSE

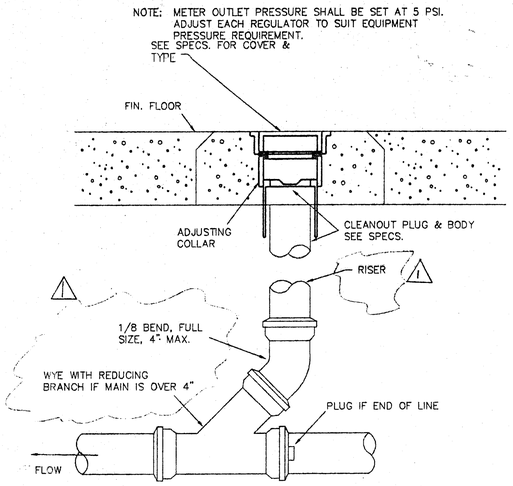
DATE 8/4/98

REVISIONS 1- 8/4/98

SHEET TITLE

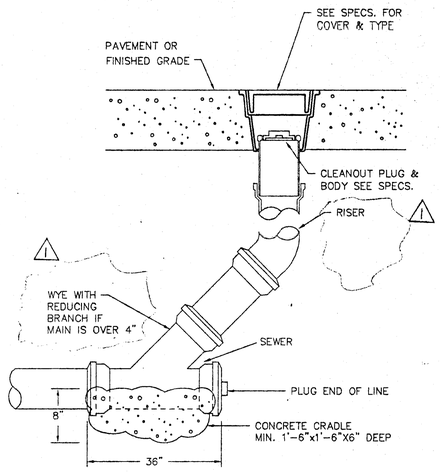
PLUMBING DETAILS & DIAGRAMS

P12



INTERIOR CLEANOUT DETAIL

NO SCALE



EXTERIOR CLEANOUT DETAIL

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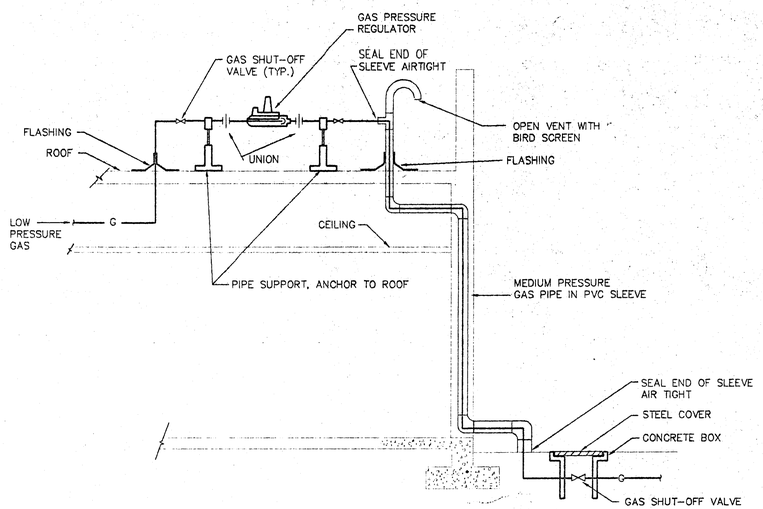
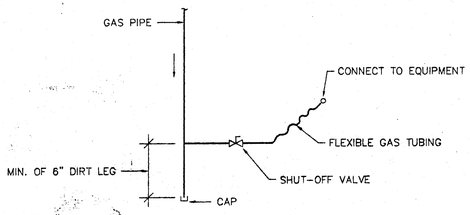


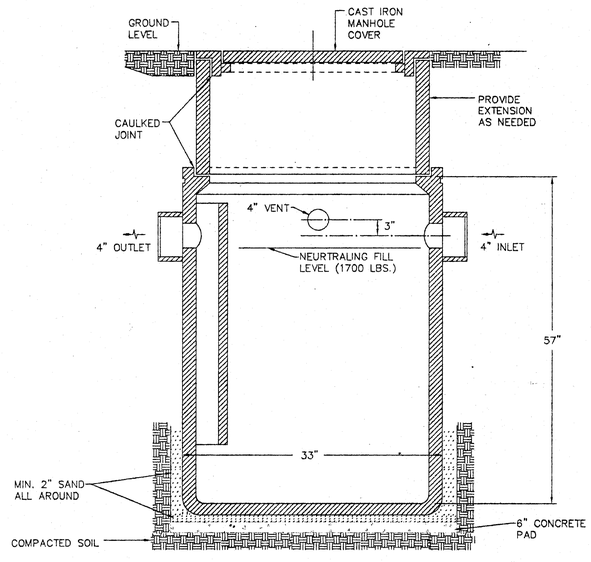
GAS REGULATOR ON ROOF DETAIL

NO SCALE



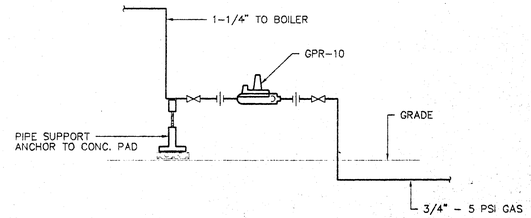
TYPICAL GAS CONNECTION

NO SCALE



ACID NEUTRALIZING BASIN DETAIL

NO SCALE (KNIGHT-WARE MODEL 400 WITH NEUTRALIZING CHARGE)



GPR-10 DETAIL

NO SCALE

REGISTERED PROFESSIONAL ENGINEER RALPH H. BILAL 19171 MECHANICAL STATE OF CALIFORNIA

CONSULTANTS: MECHANICAL ELECTRICAL
CSE CREATIVE SYSTEMS ENGINEERS, INC.
7750 El Camino Real Carlsbad, CA 92009 (760) 633-4600
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708 CIVIC CENTER DRIVE OCEANSIDE, CA 92054

PROJECT TITLE
JEFFERSON JR HIGH MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569/00-02

PROJECT

DRAWN C.S.E.

DATE 8/4/98

REVISIONS 1- 8/4/98

GROTH ARCHITECTS

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8-31-99

MAY 05 1999

REVISED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 61964 AC FLS DSA DATE

SHEET TITLE
PLUMBING DETAILS

P13

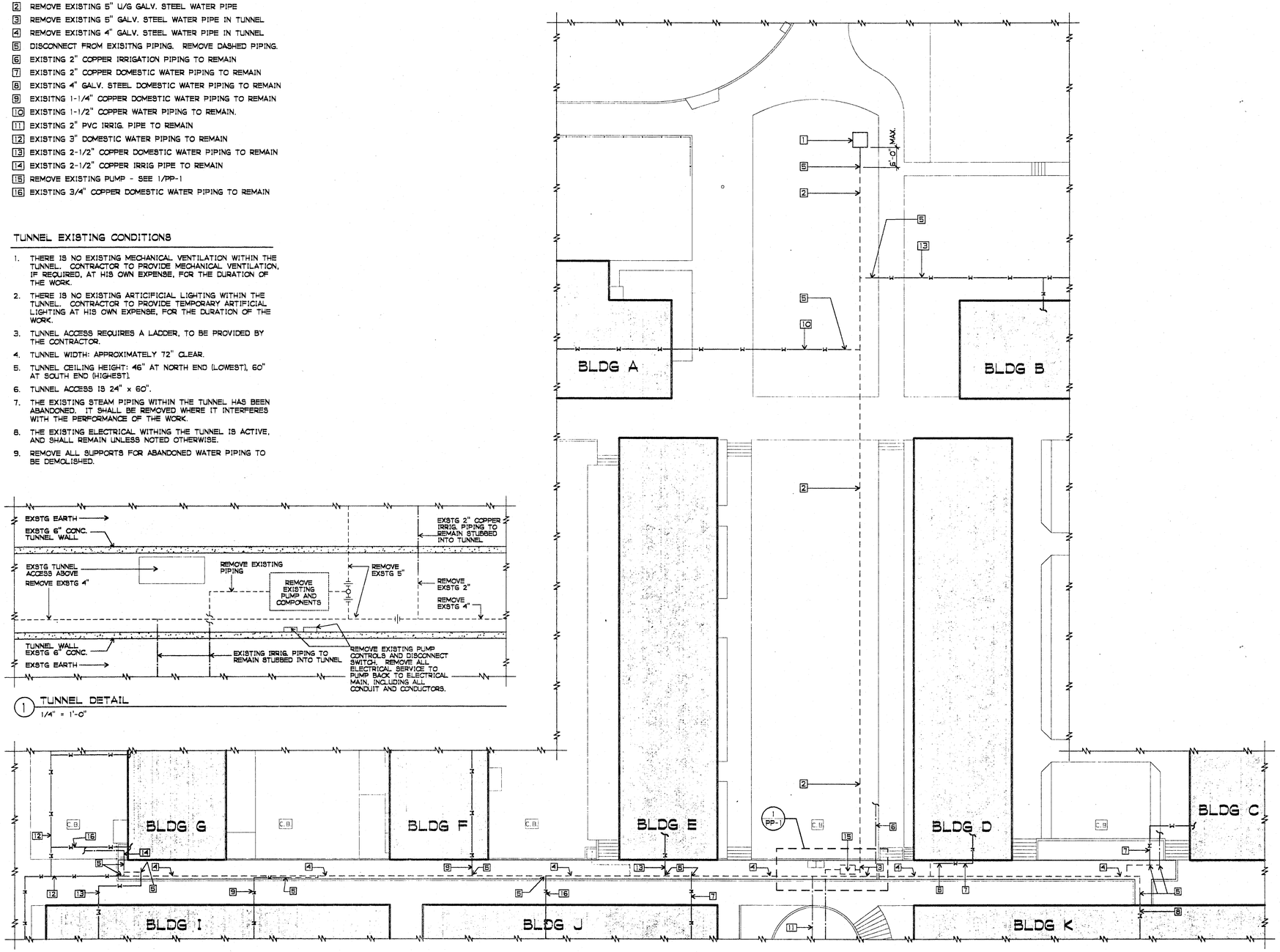
SHEET NOTES

1. EXISTING 4" WATER METER IN GROUND BOX.
2. REMOVE EXISTING 5" U/G GALV. STEEL WATER PIPE
3. REMOVE EXISTING 5" GALV. STEEL WATER PIPE IN TUNNEL
4. REMOVE EXISTING 4" GALV. STEEL WATER PIPE IN TUNNEL
5. DISCONNECT FROM EXISITNG PIPING. REMOVE DASHED PIPING.
6. EXISTING 2" COPPER IRRIGATION PIPING TO REMAIN
7. EXISTING 2" COPPER DOMESTIC WATER PIPING TO REMAIN
8. EXISTING 4" GALV. STEEL DOMESTIC WATER PIPING TO REMAIN
9. EXISITNG 1-1/4" COPPER DOMESTIC WATER PIPING TO REMAIN
10. EXISTING 1-1/2" COPPER WATER PIPING TO REMAIN.
11. EXISTING 2" PVC IRRIG. PIPE TO REMAIN
12. EXISTING 3" DOMESTIC WATER PIPING TO REMAIN
13. EXISTING 2-1/2" COPPER DOMESTIC WATER PIPING TO REMAIN
14. EXISTING 2-1/2" COPPER IRRIG PIPE TO REMAIN
15. REMOVE EXISTING PUMP - SEE 1/PP-1
16. EXISTING 3/4" COPPER DOMESTIC WATER PIPING TO REMAIN

TUNNEL EXISTING CONDITIONS

1. THERE IS NO EXISTING MECHANICAL VENTILATION WITHIN THE TUNNEL. CONTRACTOR TO PROVIDE MECHANICAL VENTILATION, IF REQUIRED, AT HIS OWN EXPENSE, FOR THE DURATION OF THE WORK.
2. THERE IS NO EXISTING ARTICIFICIAL LIGHTING WITHIN THE TUNNEL. CONTRACTOR TO PROVIDE TEMPORARY ARTIFICIAL LIGHTING AT HIS OWN EXPENSE, FOR THE DURATION OF THE WORK.
3. TUNNEL ACCESS REQUIRES A LADDER, TO BE PROVIDED BY THE CONTRACTOR.
4. TUNNEL WIDTH: APPROXIMATELY 72" CLEAR.
5. TUNNEL CEILING HEIGHT: 46" AT NORTH END (LOWEST), 60" AT SOUTH END (HIGHEST).
6. TUNNEL ACCESS IS 24" x 60".
7. THE EXISTING STEAM PIPING WITHIN THE TUNNEL HAS BEEN ABANDONED. IT SHALL BE REMOVED WHERE IT INTERFERES WITH THE PERFORMANCE OF THE WORK.
8. THE EXISTING ELECTRICAL WITHING THE TUNNEL IS ACTIVE, AND SHALL REMAIN UNLESS NOTED OTHERWISE.
9. REMOVE ALL SUPPORTS FOR ABANDONED WATER PIPING TO BE DEMOLISHED.

1 TUNNEL DETAIL
1/4" = 1'-0"



WATER PIPING DEMOLITION PLAN

1/16" = 1'-0"

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8/31/1999 STATE OF CALIFORNIA

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JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02

GROTH ARCHITECTS
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PROJECT 92043-02
DRAWN JSG
DATE MAY 7, 1999
REVISIONS

SHEET TITLE
WATER PIPING DEMOLITION PLAN

PP-1

SHEET NOTES

- [B] EXISTING WATER LINE SERVES BOTH IRRIGATION AND DOMESTIC WATER. CONNECT TO NEW DOMESTIC WATER SERVCIE.
- [C] NEW 9" x 12" CONCRETE GROUND BOX WITH TRAFFIC RATED SOLID METAL COVER WITH THE WORD "WATER" EMBOSSED ON THE TOP. COMPLY WITH SECTION 02606.
- [E] EXISTING IRRIGATION - DO NOT CONNECT TO NEW DOMESTIC WATER PIPING. TO BE CONNECTED TO NEW IRRIGATION (BY OTHERS).
- [F] 3" CAPPED TEE FOR FUTURE.
- [M] EXISTING WATER METER IN GROUND BOX.
- [P] POINT OF CONNECTION NEW TO EXISTING
- [T] 3" CAPPED TEE FOR NEW IRRIGATION (IRRIGATION BY OTHERS).
- [V] NEW BALL VALVE
- [W] NEW WATER HAMMER ARRESTOR
- [.75] NEW 3/4"
- [1] NEW 1"
- [1.25] NEW 1-1/4"
- [1.5] NEW 1-1/2"
- [2] NEW 2"
- [2.5] NEW 2-1/2"
- [3] NEW 3"
- [4] NEW 4"

LEGEND

- - - - - NEW UNDERGROUND WATER PIPE. BASE BID TO USE TYPE "K" COPPER. ALTERNATE BID TO USE SCHEDULE 40 PVC.
- —w— EXISTING WATER LINE - SEE PP-1 FOR TYPE.
- NEW BALL VALVE. ALL VALVES TO BE BRONZE, RATED FOR 150 PSI
- POINT OF CONNECTION
- —.— NEW WATER PIPE IN TUNNEL. USE ONLY TYPE "L" COPPER IN TUNNEL.
- W WATER HAMMER ARRESTOR

CONDITIONS OF THE WORK

1. THERE IS NO EXISTING MECHANICAL VENTILATION WITHIN THE TUNNEL. CONTRACTOR TO PROVIDE MECHANICAL VENTILATION, IF REQUIRED, AT HIS OWN EXPENSE, FOR THE DURATION OF THE WORK.
2. THERE IS NO EXISTING ARTICIFICIAL LIGHTING WITHIN THE TUNNEL. CONTRACTOR TO PROVIDE TEMPORARY ARTIFICIAL LIGHTING AT HIS OWN EXPENSE, FOR THE DURATION OF THE WORK.
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6. TUNNEL ACCESS IS 24" x 60".
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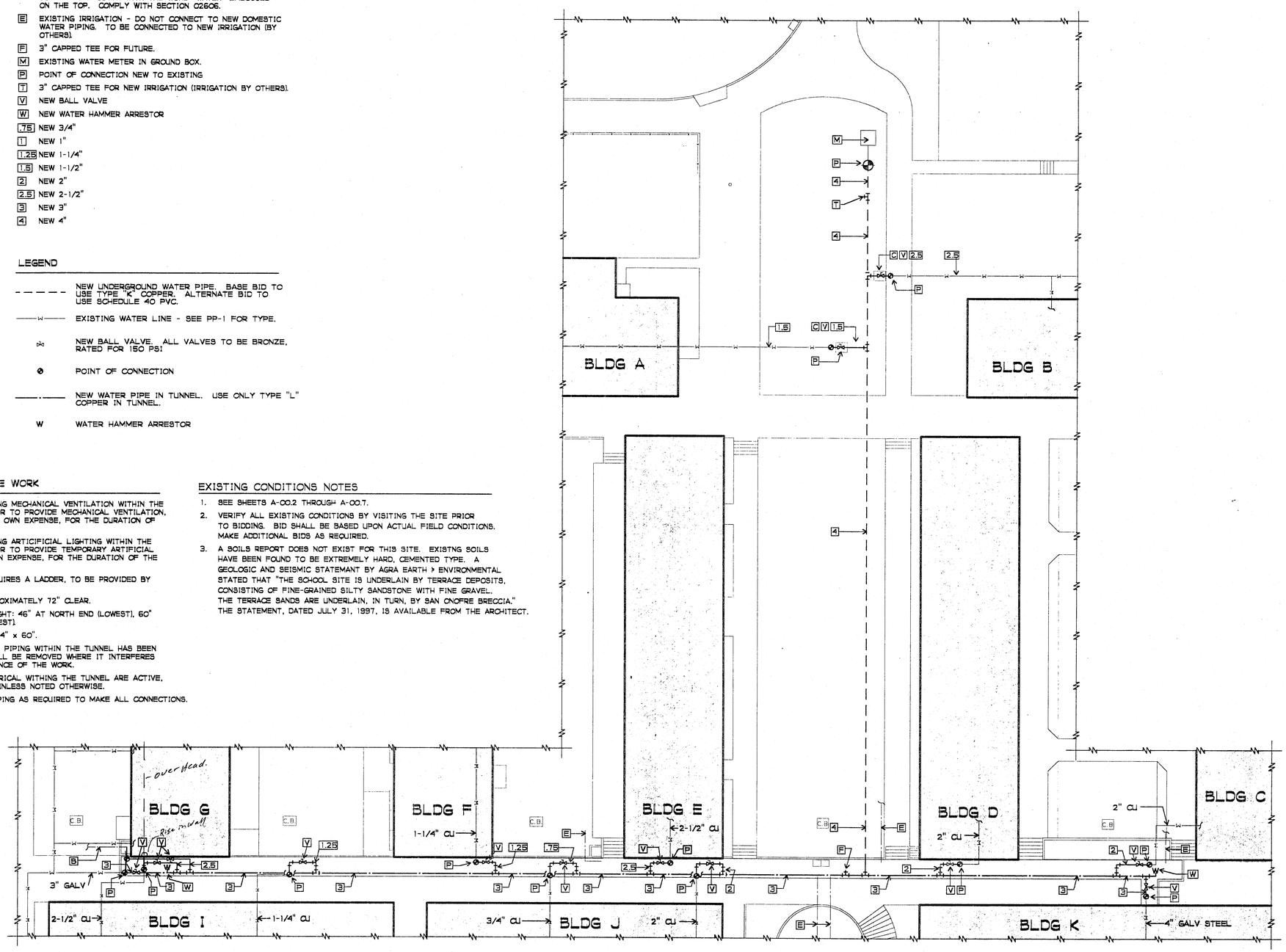
8. THE EXISTING ELECTRICAL WITHING THE TUNNEL ARE ACTIVE, AND SHALL REMAIN UNLESS NOTED OTHERWISE.
9. EXTEND EXISTING PIPING AS REQUIRED TO MAKE ALL CONNECTIONS.

EXISTING CONDITIONS NOTES

1. SEE SHEETS A-00.2 THROUGH A-00.7.
2. VERIFY ALL EXISTING CONDITIONS BY VISITING THE SITE PRIOR TO BIDDING. BID SHALL BE BASED UPON ACTUAL FIELD CONDITIONS. MAKE ADDITIONAL BIDS AS REQUIRED.
3. A SOILS REPORT DOES NOT EXIST FOR THIS SITE. EXISTNG SOILS HAVE BEEN FOUND TO BE EXTREMELY HARD, CEMENTED TYPE. A GEOLOGIC AND SEISMIC STATEMANT BY AGRA EARTH > ENVIRONMENTAL STATED THAT "THE SCHOOL SITE IS UNDERLAIN BY TERRACE DEPOSITS, CONSISTING OF FINE-GRAINED SILTY SANDSTONE WITH FINE GRAVEL. THE TERRACE SANDS ARE UNDERLAIN, IN TURN, BY SAN ONOFRE BRECCIA." THE STATEMENT, DATED JULY 31, 1997, IS AVAILABLE FROM THE ARCHITECT.



DOMESTIC WATER PIPING SITE PLAN

1/16" = 1'-0"

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PROJECT 92043-02
DRAWN JSG
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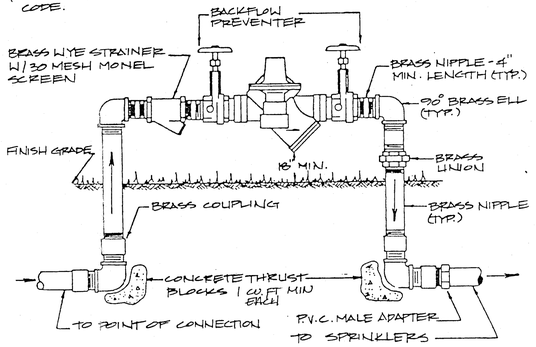
REVISIONS

SHEET TITLE
WATER PIPING SITE PLAN

PP-2

NOTE:
INSTALL PER LOCAL CODE.



1 BACKFLOW PREVENTER
NO SCALE

SHEET NOTES

- B NEW 2" BACKFLOW PREVENTER. SEE DETAIL 1/PP-3.
- D DOMESTIC WATER PIPING - SEE SHEET PP-2
- F CAPPED TEE FOR FUTURE
- W NEW WILKINS BALL VALVE
- M EXISTING WATER METER IN GROUND BOX.
- P POINT OF CONNECTION NEW TO EXISTING
- T 3" CAPPED TEE - SEE SHEET PP-2
- V NEW BALL VALVE IN PLASTIC GROUND BOX WITH THE WORD "IRRIGATION" EMBOSSED IN THE COVER. COVER TO BE MEDIUM DUTY TRAFFIC BEARING.
- 1 NEW 1"
- 1.5 NEW 1-1/2"
- 2 NEW 2"
- 2.5 NEW 2-1/2"
- 3 NEW 3"

LEGEND

- NEW UNDERGROUND IRRIGATION MAIN LINE. USE CLASS 315 PVC "ALERT LINE" PURPLE PIPE FOR ALL BURIED PIPE.
- EXISTING IRRIGATION LINE - SEE PP-1 FOR TYPE.
- WILKINS 850 BRASS BALL VALVE RATED FOR 150 PSI
- POINT OF CONNECTION
- NEW WATER PIPE IN TUNNEL. USE ONLY TYPE "L" COPPER IN TUNNEL.
- NEW BACKFLOW PREVENTER. FEBCO 825Y 2" REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE W/ FEBCO 650 2" BRONZE WYE STRAINER.

CONDITIONS OF THE WORK

1. THERE IS NO EXISTING MECHANICAL VENTILATION WITHIN THE TUNNEL. CONTRACTOR TO PROVIDE MECHANICAL VENTILATION, IF REQUIRED, AT HIS OWN EXPENSE, FOR THE DURATION OF THE WORK.
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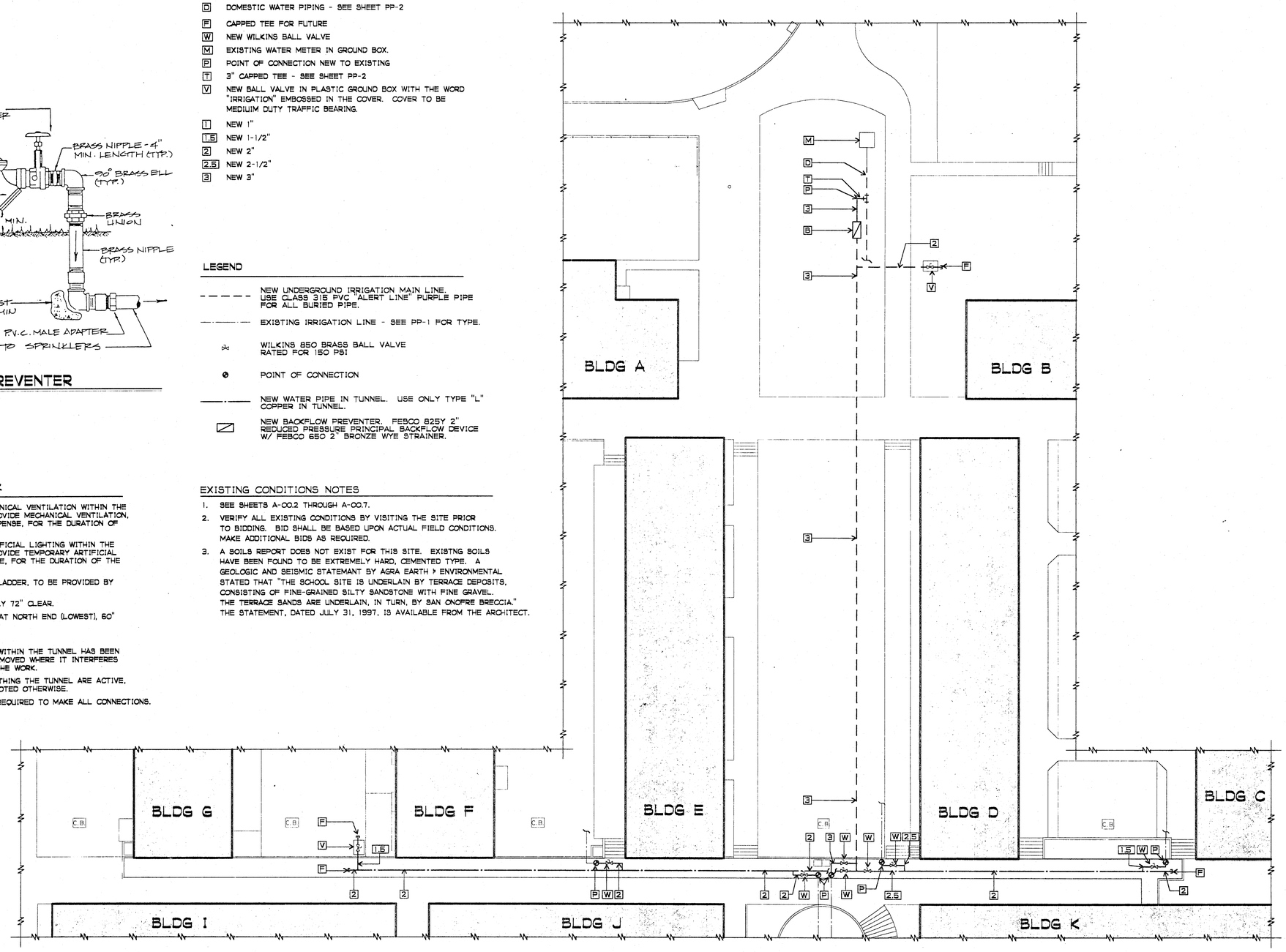
9. EXTEND EXISTING PIPING AS REQUIRED TO MAKE ALL CONNECTIONS.

EXISTING CONDITIONS NOTES

1. SEE SHEETS A-00.2 THROUGH A-00.7.
2. VERIFY ALL EXISTING CONDITIONS BY VISITING THE SITE PRIOR TO BIDDING. BID SHALL BE BASED UPON ACTUAL FIELD CONDITIONS. MAKE ADDITIONAL BIDS AS REQUIRED.
3. A SOILS REPORT DOES NOT EXIST FOR THIS SITE. EXISTNG SOILS HAVE BEEN FOUND TO BE EXTREMELY HARD, CEMENTED TYPE. A GEOLOGIC AND SEISMIC STATEMANT BY AGRA EARTH & ENVIRONMENTAL STATED THAT "THE SCHOOL SITE IS UNDERLAIN BY TERRACE DEPOSITS, CONSISTING OF FINE-GRAINED SILTY SANDSTONE WITH FINE GRAVEL. THE TERRACE SANDS ARE UNDERLAIN, IN TURN, BY SAN ONOFRE BRECCIA." THE STATEMENT, DATED JULY 31, 1997, IS AVAILABLE FROM THE ARCHITECT.



IRRIGATION WATER PIPING SITE PLAN
1/16" = 1'-0"

LICENSED ARCHITECT GLENN F. GROTH C-12939 REN 8/31/1999 STATE OF CALIFORNIA

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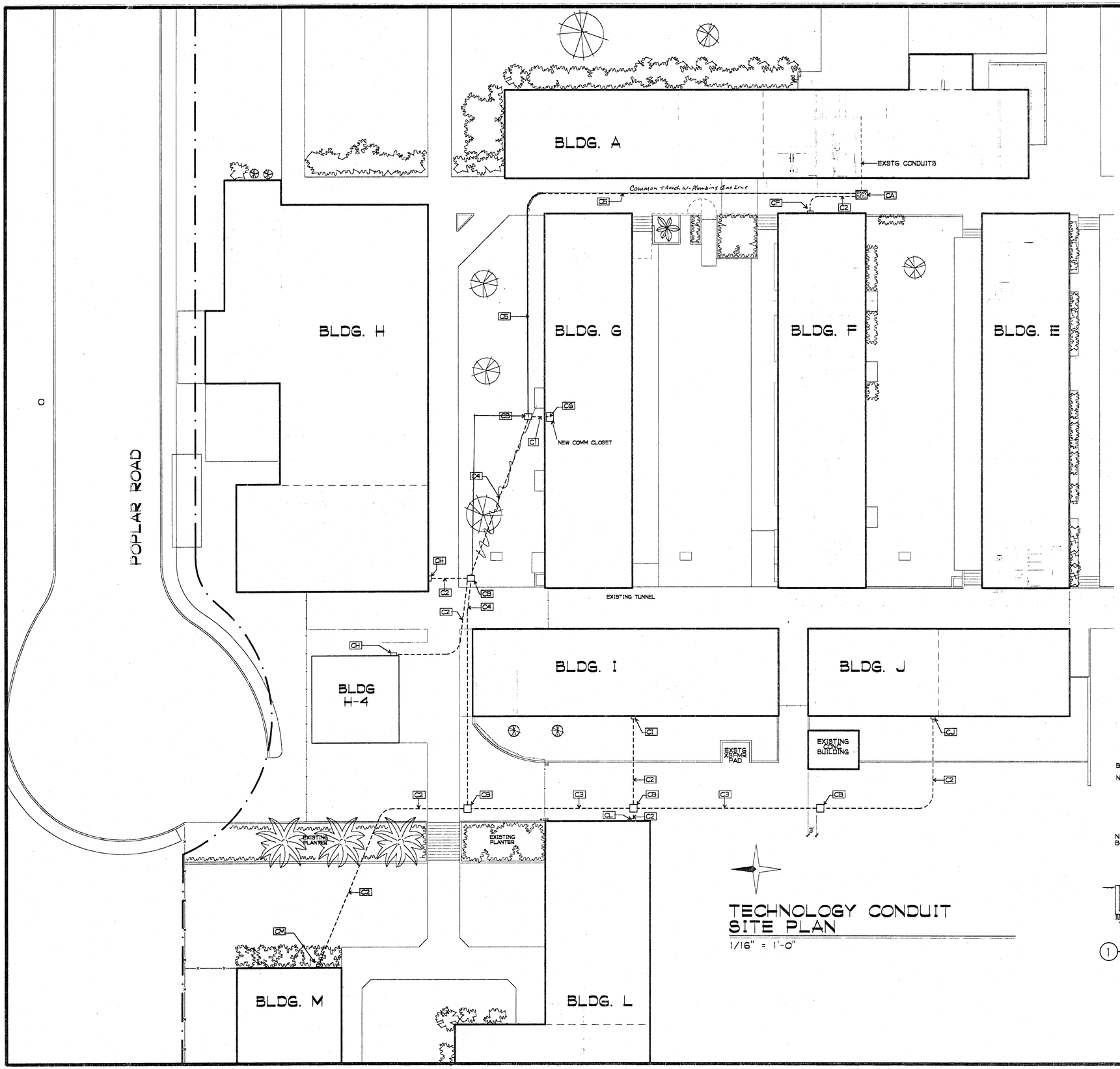
SHEET TITLE
IRRIGATION WATER PIPING

PP-3



SHEET NOTES

CA EXISTING 30" x 48" PULL BOX "COMMUNICATION".

CB NEW 24" x 36" x 36" DEEP PRECAST CONCRETE PULL BOX "ACP" SERIES 1000-3, H-20 GRADE METAL TRAFFIC COVER WITH THE WORD "COMMUNICATION" WELDED ON. SET OVER 6" OF CRUSHED ROCK. KNOCKOUT SUMP. FLUSH W/-GRADE

C1 (4) 2" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.

C2 (2) 3" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.

C3 (3) 4" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.

C4 (4) 4" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.

C5 (4) 4" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.

CF RISE (2) 3" CONDUIT PER DETAIL 2/CC-02

CG RISE (4) 2" CONDUIT IN COMM CLOSET PER DETAIL 1/CC-02

CH RISE (2) 3" CONDUIT PER DETAIL 2/CC-02

CJ RISE (2) 3" CONDUIT PER DETAIL 2/CC-02

CL RISE (2) 3" CONDUIT PER DETAIL 2/CC-02

CM RISE (2) 3" CONDUIT PER DETAIL 2/CC-02

GENERAL NOTES

1. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC
2. ALL EXPOSED CONDUIT SHALL BE SCHEDULE 40 RIGID STEEL GALVANIZED
3. PROVIDE 250# NYLON PULL ROPE IN EACH CONDUIT.
4. MAINTAIN 18" SEPARATION OF ALL NEW CONDUIT FROM ANY EXISTING OR PROPOSED ELECTRICAL LINES.
5. SEAL ALL EXPOSED ENDS OF CONDUIT WITH DUCT TAPE.
6. PATCH AND REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION.
7. REPAIR ALL SUBSURFACE UTILITIES TO THEIR ORIGINAL CONDITION AND FUNCTION THAT ARE DAMAGED DURING CONSTRUCTION.
8. MINIMUM 60" RADIUS FOR ALL HORIZONTAL BENDS IN CONDUIT
9. SUPPORT RIGID CONDUITS SECURELY IN POSITION USING UNISTRUT
10. AVOID LOCATING GROUND BOXES IN LOW SPOTS SO THEY DO NOT FILL WITH WATER
11. RUN IN COMMON TRENCH WITH FIRE ALARM CONDUIT PER SHEET FC-02. RUN RISERS ADJACENT TO FIRE ALARM CONDUIT AS PER SHEET FC-02.
12. SEE SHEET FC-02 FOR FIRE ALARM CONDUIT
13. SEE ELECTRICAL PLANS FOR WIRING REQUIREMENTS

EXISTING CONDITIONS NOTES

1. SEE SHEETS A-00.2 THROUGH A-00.7.
2. VERIFY ALL EXISTING CONDITIONS BY VISITING THE SITE PRIOR TO BIDDING. BID SHALL BE BASED UPON ACTUAL FIELD CONDITIONS. MAKE ADDITIONAL BIDS AS REQUIRED.
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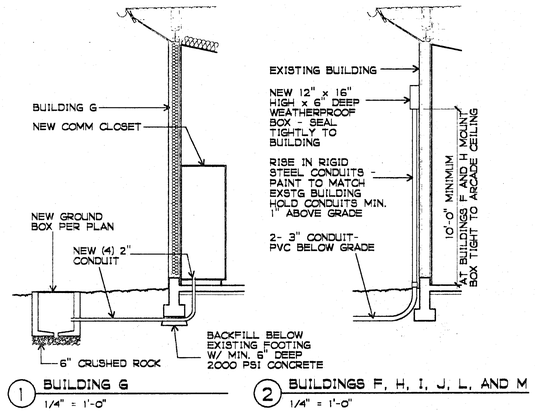
TECHNOLOGY CONDUIT SITE PLAN

1/16" = 1'-0"



1 BUILDING G
1/4" = 1'-0"

2 BUILDINGS F, H, I, J, L, AND M
1/4" = 1'-0"

LICENSED ARCHITECT
GLENN F. GROTH
C-12939
REN 8/31/1998
STATE OF CALIFORNIA

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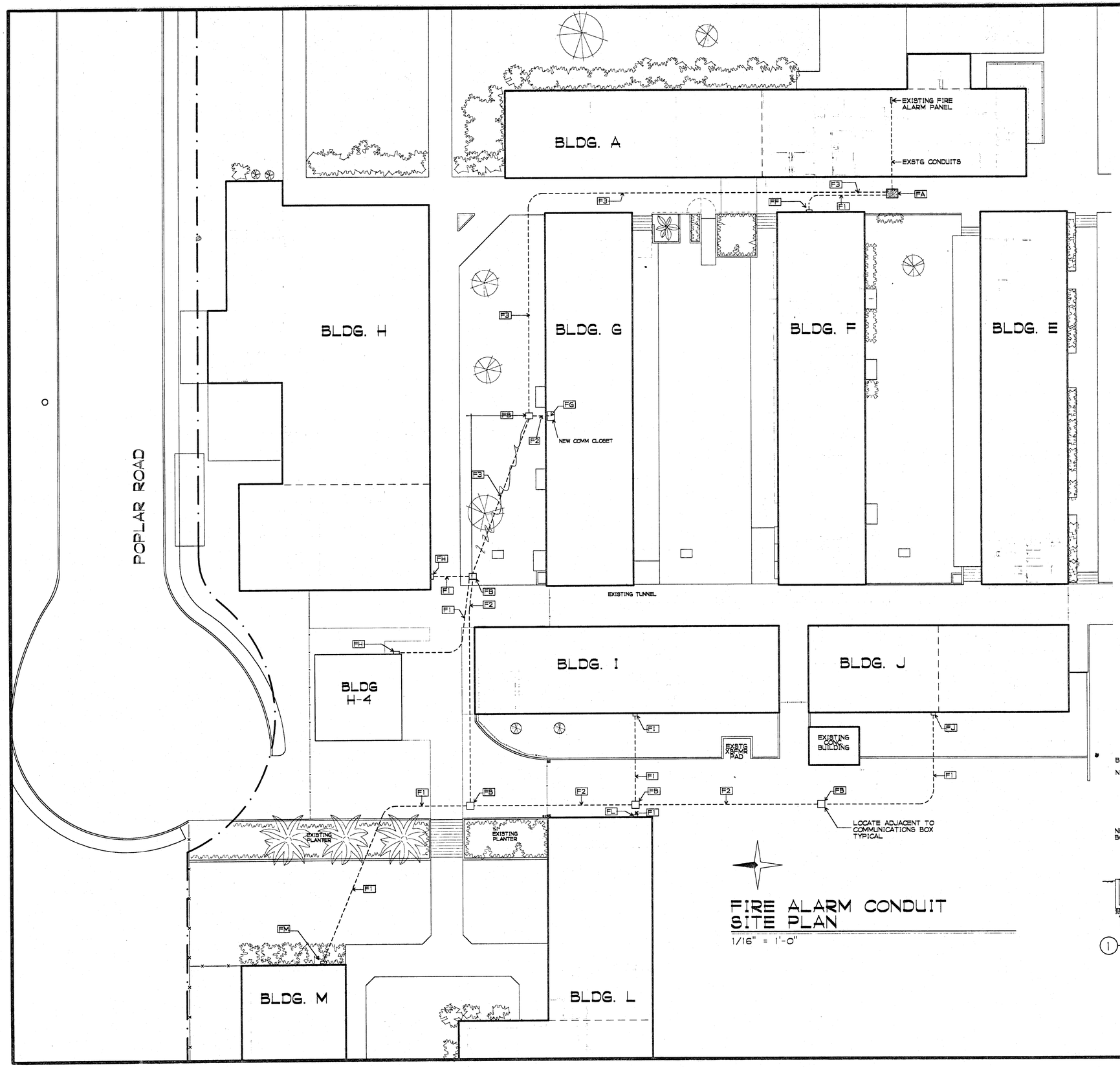
SHEET TITLE
TECHNOLOGY CONDUIT SITE PLAN

CC-02



FIRE ALARM CONDUIT SITE PLAN

1/16" = 1'-0"

SHEET NOTES

- FA EXISTING PULL BOX "FIRE ALARM".
- FB NEW 13" x 24" x 24" DEEP PRECAST CONCRETE PULL BOX "ACP" SERIES 1000. H-20 GRADE METAL TRAFFIC COVER WITH THE WORDS "FIRE ALARM" WELDED ON. SET OVER 6" OF CRUSHED ROCK. KNOCKOUT SUMP. FLUSH W/ GRADE
- F1 (1) 2" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.
- F2 (2) 2" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.
- F3 (3) 2" ϕ PVC CONDUIT AND PULL STRING 18" BELOW GRADE.
- FF RISE (1) 2" CONDUIT PER DETAIL 2/CC-02
- FG RISE (2) 2" CONDUIT IN COMM CLOSET PER DETAIL 1/CC-02
- FH RISE (1) 2" CONDUIT PER DETAIL 2/CC-02
- FJ RISE (1) 2" CONDUIT PER DETAIL 2/CC-02
- FL RISE (1) 2" CONDUIT PER DETAIL 2/CC-02
- FM RISE (1) 2" CONDUIT PER DETAIL 2/CC-02

GENERAL NOTES

1. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC
2. ALL EXPOSED CONDUIT SHALL BE SCHEDULE 40 RIGID STEEL GALVANIZED
3. PROVIDE 250# NYLON PULL ROPE IN EACH CONDUIT.
4. MAINTAIN 18" SEPARATION OF ALL NEW CONDUIT FROM ANY EXISTING OR PROPOSED ELECTRICAL LINES.
5. SEAL ALL EXPOSED ENDS OF CONDUIT WITH DUCT TAPE.
6. PATCH AND REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION.
7. REPAIR ALL SUBSURFACE UTILITIES TO THEIR ORIGINAL CONDITION AND FUNCTION THAT ARE DAMAGED DURING CONSTRUCTION.
8. MINIMUM 60" RADIUS FOR ALL HORIZONTAL BENDS IN CONDUIT
9. SUPPORT RIGID CONDUITS SECURELY IN POSITION USING UNISTRUT
10. AVOID LOCATING GROUND BOXES IN LOW SPOTS SO THEY DO NOT FILL WITH WATER
11. RUN IN COMMON TRENCH WITH TECHNOLOGY CONDUIT PER SHEET CC-02. RUN RISERS ADJACENT TO TECHNOLOGY CONDUIT AS PER SHEET CC-02.
12. SEE SHEET CC-02 FOR TECHNOLOGY CONDUIT
13. SEE ELECTRICAL PLANS FOR WIRING REQUIREMENTS

EXISTING CONDITIONS NOTES

1. SEE SHEETS A-00.2 THROUGH A-00.7.
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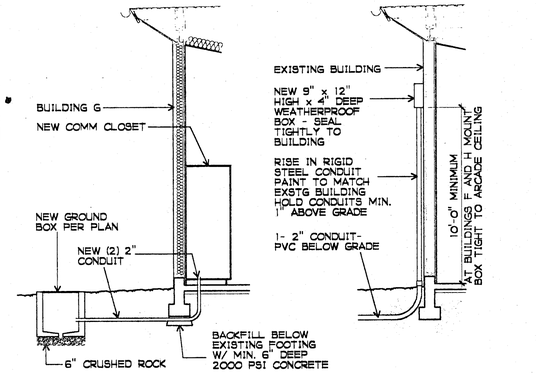

1 BUILDING G
1/4" = 1'-0"

2 BUILDINGS F, H, I, J, L, AND M
1/4" = 1'-0"

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DRAWN JSG
DATE MAY 7, 1999
REVISIONS

SHEET TITLE
FIRE ALARM CONDUIT SITE PLAN

FC-02

SYMBOLS

- LUMINAIRE; 2'X4', RECESSED.
- LUMINAIRE; POINT SOURCE, SURFACE MOUNTED ROUND.
- LUMINAIRE; POINT SOURCE, WALL MOUNTED AT HEIGHT NOTED.
- LUMINAIRE; 1'X4', SURFACE MOUNTED.
- EXIT SIGN; MOUNTING, # OF FACES AND ARROWS AS SHOWN.
- LUMINAIRE; PROVIDING EMERGENCY ILLUMINATION (FILLED IN AS INDICATED)
- $* TOGGLE SWITCH, SPST AT +46" U.O.N.
  * SUBSCRIPT INDICATES:
  A LOWER CASE a,b,c ETC. = FIXTURE OR LAMPS CONTROLLED AND NUMBER OF SWITCHES IN COMMON BOX.
  K = KEY OPERATED
- MD MOTION DETECTOR
- I INTERCOM STAFF STATION.
- ICM INTERCOM MASTER STATION.
- DUPLEX RECEPTACLE OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- CWS SURGE SUPPRESION RATED DUPLEX OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- 2 DUPLEX RECEPTACLE OUTLETS (4 PLEX) IN 4" SQ. BOX, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- COMBINATION SPEAKER CLOCK OUTLET (WITH INDICATING CLOCK), AT +84" ABOVE FINISHED FLOOR.
- ∇^2 DATA OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N., SUBSCRIPT INDICATES NUMBER OF OUTLETS.
- TELEPHONE TERMINAL OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- CONDUIT AND WIRE RUN CONCEALED.
- FLEXIBLE CONDUIT.
- "A"-2 HOMERUN TO PANELBOARD "A", "2" INDICATES CIRCUIT NUMBER.
- SLASH MARKS INDICATE NUMBER OF #12 AWG WIRES, NO SLASH MARKS INDICATES 2 #12 AWG WIRES, U.O.N. CHEVRON MARKS INDICATES NUMBER OF #10 AWG WIRES, U.O.N.
- J JUNCTION BOX WITH COVER
- $T FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER.
- TV TELEVISION OUTLET WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N., 4-11/16" SQUARE BY 2-1/8" DEEP BOX WITH TWO GANG RING. U.O.N.
- 30/3 F DISCONNECT (SAFETY) SWITCH, "F" INDICATES FUSED, "BLANK" INDICATES NON-FUSED.
- TC TIME CLOCK
- C UNDERGROUND COMMUNICATIONS PULL BOX

SHEET NOTES

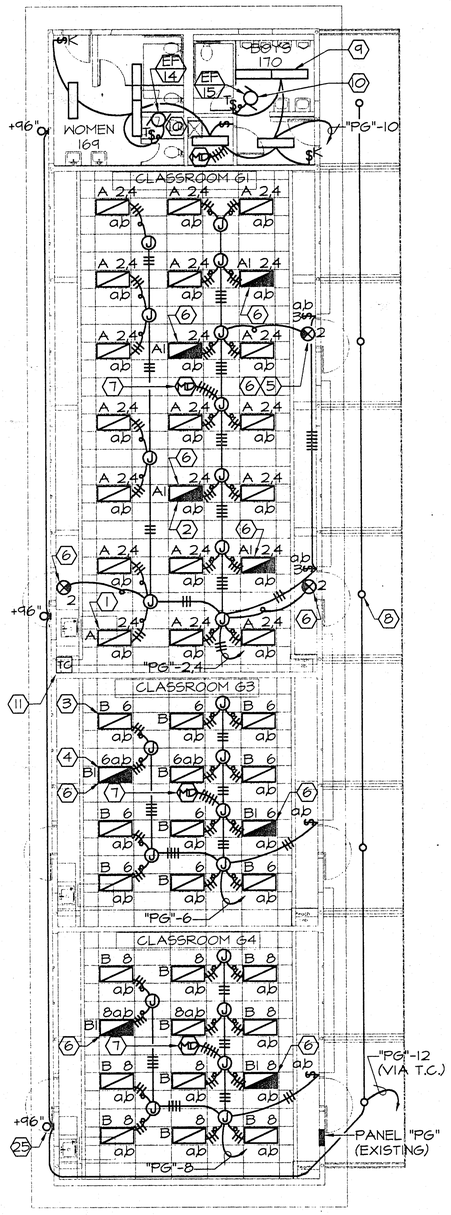
1. PROVIDE LIGHTING FIXTURE TYPE "A" (TYPICAL).
2. PROVIDE LIGHTING FIXTURE TYPE "AI" (TYPICAL).
3. PROVIDE LIGHTING FIXTURE TYPE "B" (TYPICAL).
4. PROVIDE LIGHTING FIXTURE TYPE "BI" (TYPICAL).
5. PROVIDE EXIT LIGHT (TYPICAL).
6. PROVIDE ELECTRICAL CONNECTION TO LIGHT FIXTURE EMERGENCY BATTERY PACK AHEAD OF LOCAL SWITCHING.
7. PROVIDE MOTION SENSOR AND SWITCH PACK(S) FOR AUTOMATIC OVERRIDE OF LOCAL SWITCHING.
8. PROVIDE LIGHTING FIXTURE TYPE "C" (TYPICAL).
9. PROVIDE LIGHTING FIXTURE TYPE "D" (TYPICAL).
10. PROVIDE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT.
11. PROVIDE SPST TIMECLOCK FOR EXTERIOR LIGHTING CONTROL.
12. PROVIDE ELECTRICAL CONNECTION TO ELECTRICAL HAND DRYES.
13. PROVIDE ELECTRICAL CONNECTION TO ELECTRICAL WATER HEATER.
14. PROVIDE DUAL DATA OUTLET COMPLETE WITH 1" CONDUIT, EXTEND CONDUIT TO COMMUNICATIONS CABLE TRAY ABOVE SUSPENDED CEILING (TYPICAL).
15. PROVIDE TELEPHONE OUTLET COMPLETE WITH 3/4" CONDUIT, EXTEND CONDUIT TO COMMUNICATIONS CABLE TRAY ABOVE SUSPENDED CEILING (TYPICAL).
16. PROVIDE TELEVISION OUTLET COMPLETE WITH 1" CONDUIT, EXTEND CONDUIT TO COMMUNICATIONS CABLE TRAY ABOVE SUSPENDED CEILING (TYPICAL).
17. PROVIDE JUNCTION BOX FOR FUTURE VIDEO TECHNOLOGY COMPLETE WITH 1" CONDUIT, EXTEND CONDUIT TO COMMUNICATIONS CABLE TRAY ABOVE SUSPENDED CEILING (TYPICAL).
18. PROVIDE CONBINATION CLOCK/SPEAKER OUTLET (TYPICAL).
19. PROVIDE MECHANICAL EQUIPMENT MAINTENANCE RECEPTACLE LOCATED AT ROOF (TYPICAL).
20. PROVIDE SURFACE MOUNTED RACEWAY COMPLETE WITH DEVICES SHOWN.
21. PROVIDE 1-1/4" CONDUIT, EXTEND CONDUIT TO COMMUNICATIONS RACEWAY ABOVE SUSPENDED CEILING.
22. PROVIDE 4" DEEP BY 18" WIDE CABLE TRAY WITH CENTER DIVIDER SUSPENDED ABOVE SUSPENDED CEILING GRID ON SINGLE HANGER, FOR DETAILS SEE (A / E22|E22)
23. PROVIDE TERMINATION OF TELEPHONE, DATA, CATV, INTERCOM AND CLOCK AT COMMUNICATIONS CLOSET, FOR DETAILS SEE SHEET E22.
24. PROVIDE SIX (6) 2" CONDUIT, TWO (2) 1" CONDUIT, EXTEND CONDUIT TO COMMUNICATIONS CABLE TRAY ABOVE SUSPENDED CEILING.
25. PROVIDE LIGHTING FIXTURE TYPE "F" (TYPICAL).
26. PROVIDE EXTERIOR INTERCOMMUNICATIONS SPEAKER.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MTG	MOUNTING
BKR	BREAKER	N	NEUTRAL
CB	CIRCUIT BREAKER	PNL	PANEL
C	CONDUIT	PWR	POWER
C.O.	CONDUIT ONLY	RGS	RIGID GALVANIZED STEEL
COND	CONDUCTOR	TYP	TYPICAL
CU	COPPER	UG	UNDERGROUND
ELEC	ELECTRIC, ELECTRICAL	UON	UNLESS OTHERWISE NOTED
EMER	EMERGENCY	WP	WEATHERPROOF
EXIST	EXISTING	X	EXISTING TO REMAIN
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FATC	FIRE ALARM TERMINAL CABINET		
LTG	LIGHTING		
MECH	MECHANICAL		
MTD	MOUNTED		

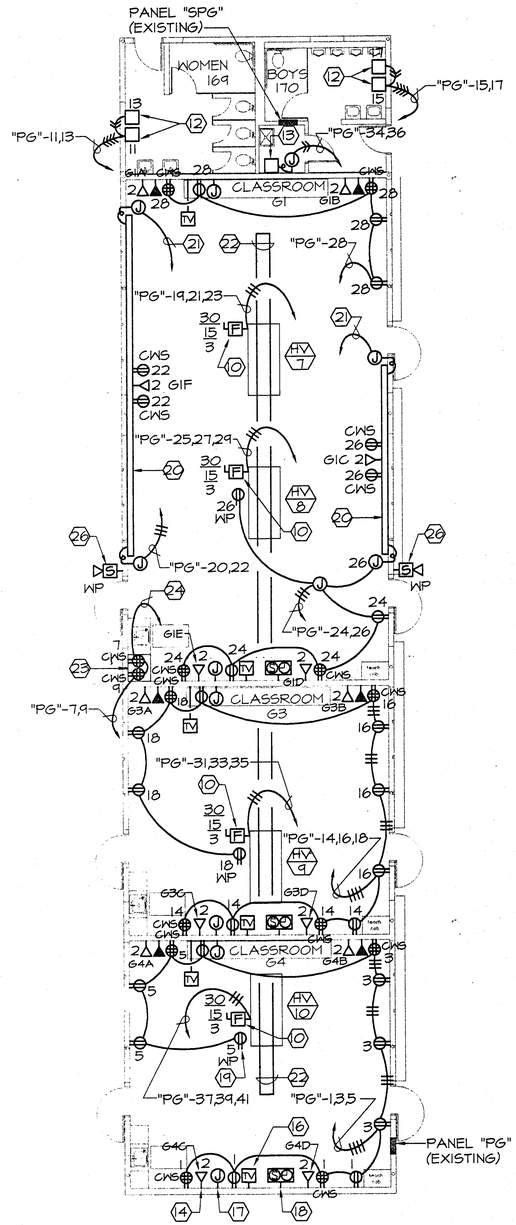
GENERAL NOTES

1. VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
2. COORDINATE TELEVISION RECEPTACLE WITH TELEVISION OUTLET.
3. COORDINATE FUTURE VIDEO TECHNOLOGY JUNCTION BOX WITH TELEVISION OUTLET.
4. COORDINATE C.W.S. RECEPTACLE WITH DATA OUTLET.
5. ATTACH ALL CONDUIT AT CABLE TRAY WITH TWO HOLE CONDUIT STRAPS.



BUILDING "G" LIGHTING PLAN

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



BUILDING "G" POWER PLAN

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

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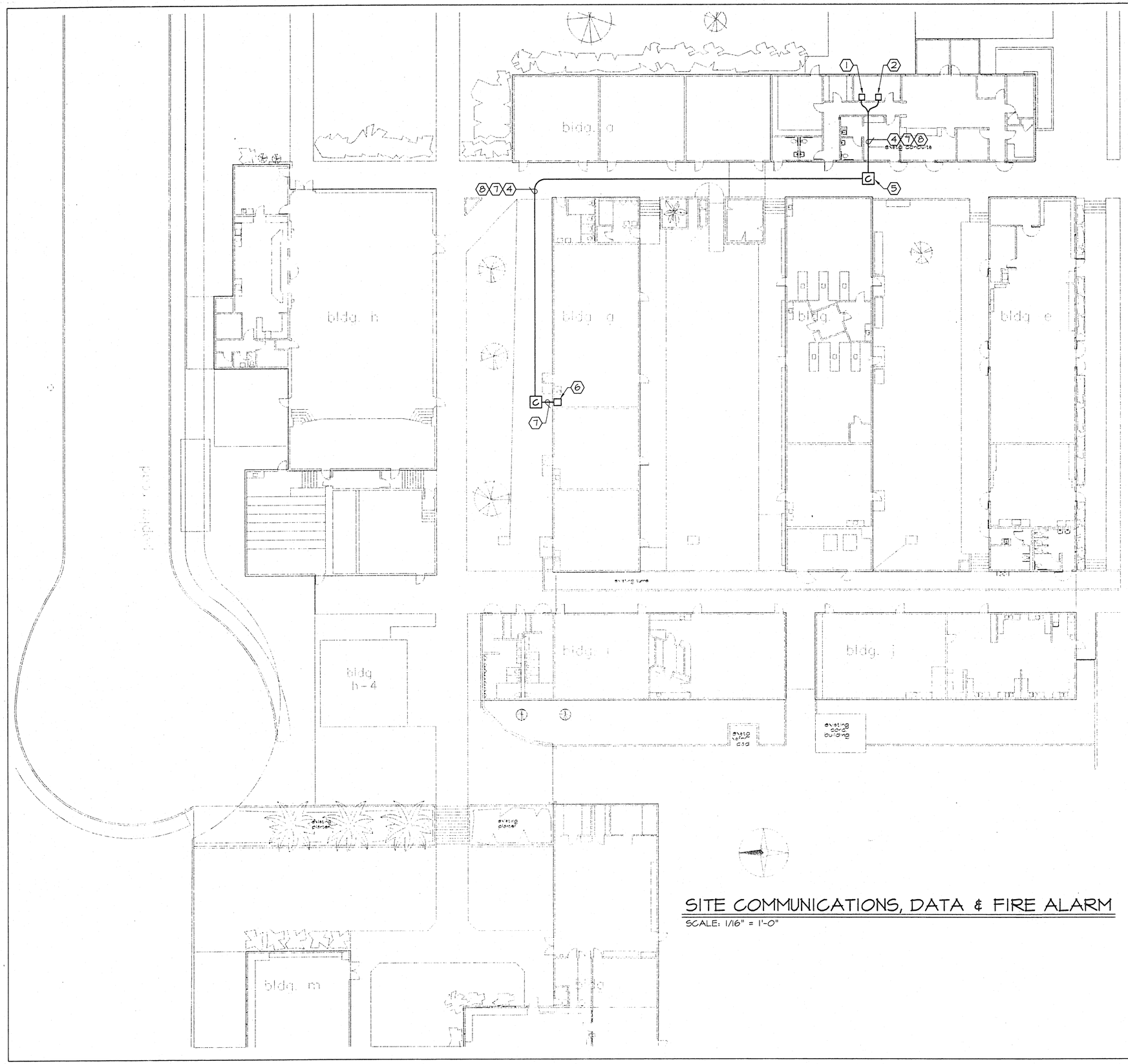
oceanside unified school district
application # 77/73569-00-02

PROJECT 02043-02
DRAWN TB / CAD
DATE 4-30-02
REVISIONS

G-1

SHEET TITLE
BUILDING "G" LIGHTING AND POWER PLAN, SYMBOLS AND ABBREVIATIONS

E20



SITE COMMUNICATIONS, DATA & FIRE ALARM

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

SHEET NOTES

1. EXISTING DATA HEAD END EQUIPMENT.
2. EXISTING COMMUNICATIONS AND CATV HEAD END EQUIPMENT.
3. EXISTING FIRE ALARM CONTROL PANEL.
4. EXISTING COMMUNICATIONS, DATA AND FIRE ALARM CONDUITS.
5. EXISTING UNDERGROUND DUCT BANK PULL BOX.
6. PROVIDE COMMUNICATIONS, DATA AND FIRE ALARM CONNECTION AT NEW COMMUNICATIONS CABINET, FOR DETAILS SEE SHEET E3.
7. PROVIDE COMMUNICATIONS, DATA AND FIRE ALARM CONDUCTORS IN NEW UNDERGROUND ELECTRICAL DUCT BANK, FOR DETAILS SEE SHEET CO-02.
8. PROVIDE PULL STRING IN ADDITION TO SYSTEMS CONDUCTORS.

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TB / CAD

DATE
4-30-99

REVISIONS

SHEET TITLE
SITE COMMUNICATIONS, DATA & FIRE ALARM

E21

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EXISTING

PANEL: "PG"	VOLTAGE: 120/208 V, 3Φ 4W	BUS SIZE: 225A	
	FED FROM: "MSB"	MAIN: 225/3 CB	MTG: FLUSH
LOC.: CLASSROOM G3	MIN. A.I.C.: 10,000	NEUTRAL: 100%	NEMA: 1

ITEM/LOCATION	*	BKR/P	#	ΦA	ΦB	ΦC	#	BKR/P	*	ITEM/LOCATION
CLASSROOM G4 RECEPTACLES	R	20/1	1	900/935			2	20/1	L	CLASSROOM G1 LIGHTING
CLASSROOM G4 RECEPTACLES	R		3		900/935		4		L	CLASSROOM G1 LIGHTING
CLASSROOM G4 RECEPTACLES	R		5			900/1068	6		L	CLASSROOM G3 LIGHTING
CLASSROOM G1 DATA CLOSET RECEPTS.	R		7	360/1068			8		L	CLASSROOM G4 LIGHTING
CLASSROOM G1 DATA CLOSET RECEPTS.	R		9		360/434		10		L	WOMEN 169, BOYS 170 LIGHTING
1. WOMEN 169 ELECT. HAND DRYER		30/1	11			2300/360	12		L	EXTERIOR LIGHTING 2.
1. WOMEN 169 ELECT. HAND DRYER			13	2300/900			14		R	CLASSROOM G3 RECEPTACLES
1. BOYS 170 ELECT. HAND DRYER			15		2300/900		16		R	CLASSROOM G3 RECEPTACLES
1. BOYS 170 ELECT. HAND DRYER			17			2300/900	18		R	CLASSROOM G3 RECEPTACLES
HV-7		20	19	468/180			20		R	CLASSROOM G1 RECEPTACLES
			21		468/180		22		R	CLASSROOM G1 RECEPTACLES
		3	23			468/1080	24		R	CLASSROOM G1 RECEPTACLES
HV-8		20	25	468/360			26		R	CLASSROOM G1 RECEPTACLES
			27		468/1260		28		R	CLASSROOM G1 RECEPTACLES
		3	29			468	30			SPARE
HV-9		20	31	468			32			
			33		468/3000		34	30		ELECTRIC WATER HEATER JANITORS CLOSET 3.
		3	35			468/3000	36	2		3.
HV-10		20	37	468			38	100		PANEL "SPG"
			39		468		40			
		3	41			468	42	3		

LOAD TYPE			Φ	CONN. VA.	LCL VA.	CONN. AMPS		
	(L)ONG-CONTINUOUS VA	4800					PANEL CONNECTED KVA	34.8 KVA
	(N)ON-CONTINUOUS VA	20816	A	8875	9376	74.0	PANEL DEMAND AMPS	99.9 A
*	DEMANDABLE (R)ECEPTACLE	9180	B	12141	12483	101.2	PANEL CONNECTED AMPS	96.6 A
	(K)ITCHEN (/EQUIP. 0)	0	C	13780	14137	114.8	HIGH Φ AMPS W/LCL	117.8 A

NOTES: DATE: 05/06/99

1. PROVIDE 30 AMP 1 POLE CIRCUIT BREAKER TO MATCH EXISTING.
2. PROVIDE TIME CLOCK CONTROL.
3. PROVIDE 30 AMP 2 POLE CIRCUIT BREAKER TO MATCH EXISTING.

LUMINAIRE SCHEDULE

TYPE	MTG / MH	LUMINAIRE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMP #/TYPE WATTS CT/CRI CODE	BALLAST #/TYPE PF BF CIRCUIT	INPUT WATTS VOLTS VA	REC DEPTH / REF NOTES
A	REC	2'x4' 3-LAMP RECESSED FLUORESCENT, STEEL BODY, 90% REFLECTIVE PAINT FINISH 2'x2' LOW IRIDESCENT SEMI-SPECULAR LOUVER TWO (2) ELECTRONIC BALLAST, T8 FLUORESCENT LAMPS	LIGHTOLIER #MPS2G78L3-S340-EL-120-03 OR APPROVED EQUAL BY LITHONIA OR METALUX	3/FL F32T8/SPX 3500°K/85 RS	2/EL .95PF .92BF	89W 120V 112VA	
A1	REC	IDENTICAL TO TYPE "A", EXCEPT PROVIDE EMERGENCY BATTERY PACK	LIGHTOLIER #MPS2G78L3-S340-EL-120-03 OR APPROVED EQUAL BY LITHONIA OR METALUX	3/FL F32T8/SPX 3500°K/85 RS	2/EL .95PF .92BF	89W 120V 112VA	
B	REC	2'x4' 3-LAMP RECESSED FLUORESCENT, STEEL BODY, 90% REFLECTIVE PAINT FINISH .125 EXTRUDED ACRYLIC LENSE, TWO (2) ELECTRONIC BALLAST, T8 FLUORESCENT LAMPS	LIGHTOLIER #XT2GVA340-120-03 OR APPROVED EQUAL BY LITHONIA OR METALUX	3/FL F32T8/SPX 3500°K/85 RS	2/EL .95PF .92BF	89W 120V 112VA	
B1	REC	IDENTICAL TO TYPE "B", EXCEPT PROVIDE EMERGENCY BATTERY PACK	LIGHTOLIER #XT2GVA340-EL-120-03 OR APPROVED EQUAL BY LITHONIA OR METALUX	3/FL F32T8/SPX 3500°K/85 RS	2/EL .95PF .92BF	89W 120V 112VA	
C	SURF	14" ROUND VANDAL RESISTANT, SURFACE MOUNT, EXTERIOR, COMPACT FLUORESCENT, WHITE PAINT FINISH OPAL WHITE ACRYLIC LENSE TWO (2) FLUORESCENT LAMPS	W.F. HARRIS #50-M-2-9PL-120-PY NO KNOWN EQUAL	2/FL F9PBX/SPX 3500°K/48	1/MAG .95PF .92BF	26W 120V 33VA	
D	SURF	1'x4' 2-LAMP SURFACE FLUORESCENT, STEEL BODY 90% REFLECTIVE PAINT FINISH FIVE SIDED .187 MOLDED REFRACTOR, ONE (1) ELECTRONIC BALLAST, T8 FLUORESCENT LAMPS	LIGHTOLIER #CBS240DW-120-SO OR APPROVED EQUAL BY LITHONIA OR LIGHTOLIER	2/FL F32T8/SPX 3500°K/85 RS	1/EL .95PF .92BF	62W 120V 78VA	
F	WALL	14" ROUND VANDAL RESISTANT SURFACE MOUNT, EXTERIOR COMPACT FLUORESCENT, WHITE PAINT FINISH TWO (2) FLUORESCENT LAMPS	LITHONIA #WGR1-213TT-120-DWHG OR APPROVED EQUAL BY KENAL OR PRESCOLITE	2/FL F13PBX/SPX 3500°K/48	1/MAG .95PF .92BF	36W 120V 45VA	
⊗	SURF	LED QUICK MOUNT EXIT LIGHT MOLDED POLYCARBONATE HOUSING EMERGENCY BATTERY PACK RED LETTERS	LITHONIA #LQW-S-W-R-120-ELN OR APPROVED EQUAL BY PRESCOLITE OR COLUMBIA	LED PROVIDED WITH FIXTURE	– – –	.68W 120V 1VA	

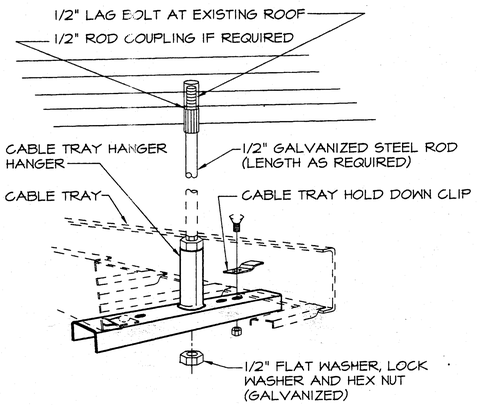
MTG: COVE, FLooR, GrounD, PENDant, POLE, RECessed, SURFace, WALL
MH: MOUNTING HEIGHT ABOVE FINISHED FLOOR TO J-BOX CENTER IF WALL, TO BOTTOM IF PENDANT OR IF POLE, HEIGHT ABOVE GRADE TO TOP.

LAMP: #:NUMBER OF LAMPS/LUMINAIRE; TYPE:FLuoRescent, HPS, INCandescent, INDuction, LPS, Metal Halide; WATTS: LAMPS WATTS; CT: COLOR TEMP. IN DEGREES KELVIN; CRI: MINIMUM COLOR RENDERING INDEX; CODE: ORDERING CODE OR OTHER INFO.

BALLAST: #:NUMBER OF BALLASTS PER LUMINAIRE TYPE: ELectronic, HYBrid, MAGnetic; PF: MINIMUM POWER FACTOR; BF: MINIMUM BALLAST FACTOR; CIRCUIT: CWA, INStant, PARallel, RAPid, SERies, TRIGger.

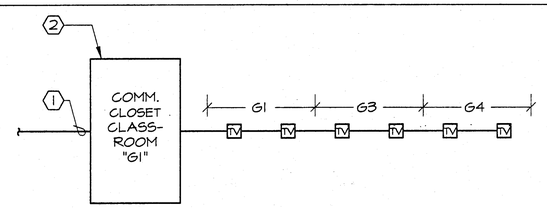
SHEET NOTES

1. PROVIDE CABLE TELEVISION COAXIAL CABLE IN UNDERGROUND DUCT BANK, EXTEND CABLE TO CABLE TELEVISION HEAD END EQUIPMENT AT BUILDING "A", FOR DETAILS SEE SHEET E21.
2. PROVIDE CABLE TELEVISION CONNECTION AT COMMUNICATIONS CLOSET.
3. PROVIDE INTERCOMMUNICATIONS CONDUCTORS IN UNDERGROUND DUCT BANK, EXTEND CONDUCTORS TO INTERCOMMUNICATIONS HEAD END EQUIPMENT AT BUILDING "A", FOR DETAILS SEE SHEET E21.
4. PROVIDE INTERCOMMUNICATIONS CONNECTION AT COMMUNICATIONS CLOSET.
5. PROVIDE CLOCK SYSTEM CONDUCTORS IN UNDERGROUND DUCT BANK, EXTEND CONDUCTORS TO CLOCK SYSTEM HEAD END EQUIPMENT AT BUILDING "A", FOR DETAILS SEE SHEET E21.
6. PROVIDE CLOCK SYSTEM CONNECTION AT COMMUNICATIONS CLOSET.
7. PROVIDE TWO (2) FIFTY (50) PAIR "66" TYPE SPLIT M CONNECTING BLOCKS.
8. PROVIDE TERMINATION AND LABELING OF ALL TELEPHONE CONDUCTORS.
9. PROVIDE ONE (1) CATEGORY THREE FOUR-TWO PAIR TELEPHONE CABLE.
10. PROVIDE ONE (1) CATEGORY THREE TELEPHONE JACK AND FACE PLATE.
11. PROVIDE CABLE LABELS.
12. PROVIDE ONE (1) SIX STRAND FIBER OPTIC CABLE IN INNER BUT IN UNDERGROUND DUCT BANK, EXTEND CABLE TO DATA HEAD END EQUIPMENT AT BUILDING "A", FOR DETAILS SEE SHEET E21.
13. PROVIDE SIX (6) CATEGORY FIVE FOUR-TWO PAIR DATA SYSTEM CABLES IN UNDERGROUND DUCT BANK, EXTEND CABLES TO DATA SYSTEM HEAD END EQUIPMENT AT BUILDING "A", FOR DETAILS SEE SHEET E21.
14. PROVIDE DATA NETWORK HUB.
15. PROVIDE 48 PORT CATEGORY FIVE "110" PATCH PANEL.
16. PROVIDE TWO (2) CATEGORY FIVE FOUR-TWO PAIR DATA CABLES.
17. PROVIDE TWO (2) CATEGORY FIVE DATA OUTLETS WITH FACE PLATE.
18. PROVIDE FOUR (4) 25 PAIR CATEGORY THREE TELEPHONE CABLES, EXTEND CABLES TO TELEPHONE HEAD END EQUIPMENT AT BUILDING "A", FOR DETAILS SEE SHEET E21.



SINGLE ROD CABLE TRAY SUPPORT DETAIL (A) E20 | E22

NO SCALE



CABLE TELEVISION RISER DIAGRAM

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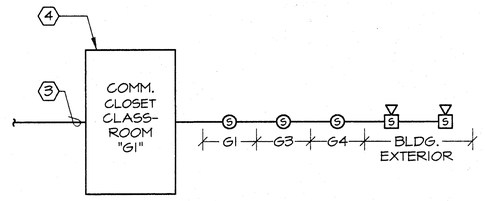
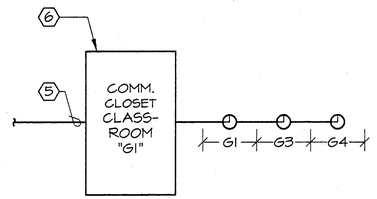


INTERCOMMUNICATIONS RISER DIAGRAM

NO SCALE



CLOCK SYSTEM RISER DIAGRAM

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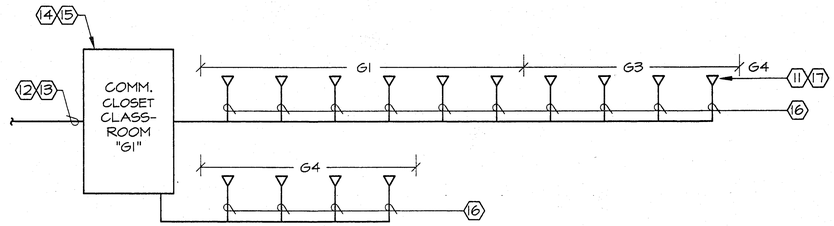

DATA NETWORK SYSTEM RISER DIAGRAM

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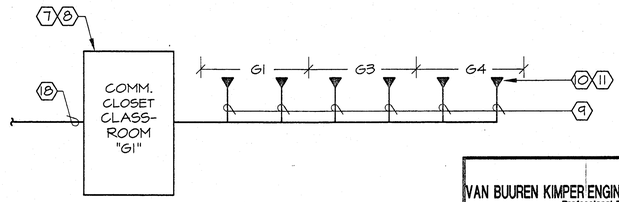

TELEPHONE RISER DIAGRAM

NO SCALE

GENERAL NOTES

1. PROVIDE TERMINATION OF A LL SYSTEMS CONDUCTORS AT POINT OF ORIGEN AND OUTLET DEVICE.
2. PROVIDE CABLE LABELS AT ALL SYSTEMS CONDUCTORS AT POINT OF ORIGEN AND OUTLET DEVICE.

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SHEET TITLE
PANEL SCHEDULES, LUMINAIRE SCHEDULE COMMUNICATIONS, DATA RISER DIAGRAMS ELECTRICAL DETAILS

E22

DEVICE LEGEND

	FIRE ALARM CONTROL PANEL MODEL: 7200A BSU/C SFM: 7165-0694:174	SPECIAL BACKBOX SUPPLIED BY STANDARD ELECTRONICS
	FIRE ALARM TERMINAL CABINET FIELD VERIFY SIZE	SUPPLIED BY ELECTRICAL
ANN	FIRE ALARM ANNUNCIATOR MODEL: KDU SFM: 7165-694:174	SPECIAL BACKBOX SUPPLIED BY STANDARD ELECTRONICS
	FIRE ALARM AUXILLARY PANEL MODEL: SNAC SFM: 7300-694:191	SPECIAL BACKBOX SUPPLIED BY STANDARD ELECTRONICS
D	DUCT DETECTOR MODEL: ASD-P SFM: 7271-694:161 MODEL: DH500	SUPPLIED BY STANDARD ELECTRONICS, POWERED OFF OF FIRE ALARM CONTROL PANEL
F	MANUAL PULL STATION MODEL: MS-2 SFM: 7150-694:107	4 SQUARE DEEP BOX WITH SINGLE GANG RING
F WP	EXTERIOR HORN MODEL: NH-12/24-R SFM: 7135-0785:118	4 SQUARE DEEP BOX
F	STROBE ONLY MODEL: RSS-2415W-FR SFM: 7125-0785:141	4 SQUARE DEEP BOX WITH SINGLE GANG RING
F	HORNSTROBE MODEL: NS-24"CD"W-FR SFM: 7125-0785:133	4 SQUARE DEEP BOX WITH SINGLE GANG RING
FS	FLOW SWITCH	SUPPLIED BY OTHERS
PS	PRESSURE SWITCH	SUPPLIED BY OTHERS
J	J-BOX	SUPPLIED BY OTHERS
L1	INDICATES INITIATING LOOP NUMBER	
C2	INDICATES SIGNAL CIRCUIT NUMBER	

WIRE LEGEND

- (A) 1#990 1 PAIR 16AWG 1 RED / 1 BLK – ANALOG LOOP 1
- (B) 2 #14 AWG 1 RED / 1 BLK – HORN CIRCUIT
- (C) 2 #14 AWG 1 PNK / 1 PRP – STROBE CIRCUIT
- (D) 3 #12 AWG 1 BLK / 1 WHT / 1 GRN –120 VAC POWER
- (E) 1 #990 1 PAIR 16AWG 1 RED / 1 BLK AND 2 #14 AWG 1 PNK / 1 PURP – REMOTE KDU ANNUNCIATOR
- (G) 2 #14 AWG 1 PNK / 1 PRP – POWER FOR DUCT DETECTORS

ALL CONDUIT 3/4" UNLESS OTHERWISE NOTED

SYSTEM NOTE

1 FURNISH AND INSTALL A COMPLETE 24 VDC, CLOSED CIRCUIT, MICROPROCESSOR BASED, ELECTRICALLY SUPERVISED, ZONE ANNUNCIATED FIRE ALARM SYSTEM AS SPECIFIED HERE ON THESE PLANS. THE SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO ALL CONTROL PANELS, POWER SUPPLIES, SIGNAL INITIATING DEVICES, AUDIO AND VISUAL ALARM DEVICES, CONDUIT, WIRE, FITTINGS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE OPERATION SYSTEM. THE SYSTEM SHALL BE WIRED AS A (CLASS B) SYSTEM FOR ALL CIRCUITS.

2 THE FIRE ALARM AND DETECTION SYSTEM SHALL BE CONFIGURED AND DESIGNED SUCH THAT EACH INITIATING LOOP SHALL BE TREATED AS INDIVIDUAL ZONES EXCEPT WHERE OTHERWISE INDICATED. WHEN A FIRE OCCURENCE IS DETECTED, THE ACTIVATED INITIATED DEVICE WILL BE INDIVIDUALLY ANNUNCIATED AT THE CONTROL PANEL, AND WILL ACTIVATE AND EVACUATION SIGNAL FOR THE ENTIRE SCHOOL.

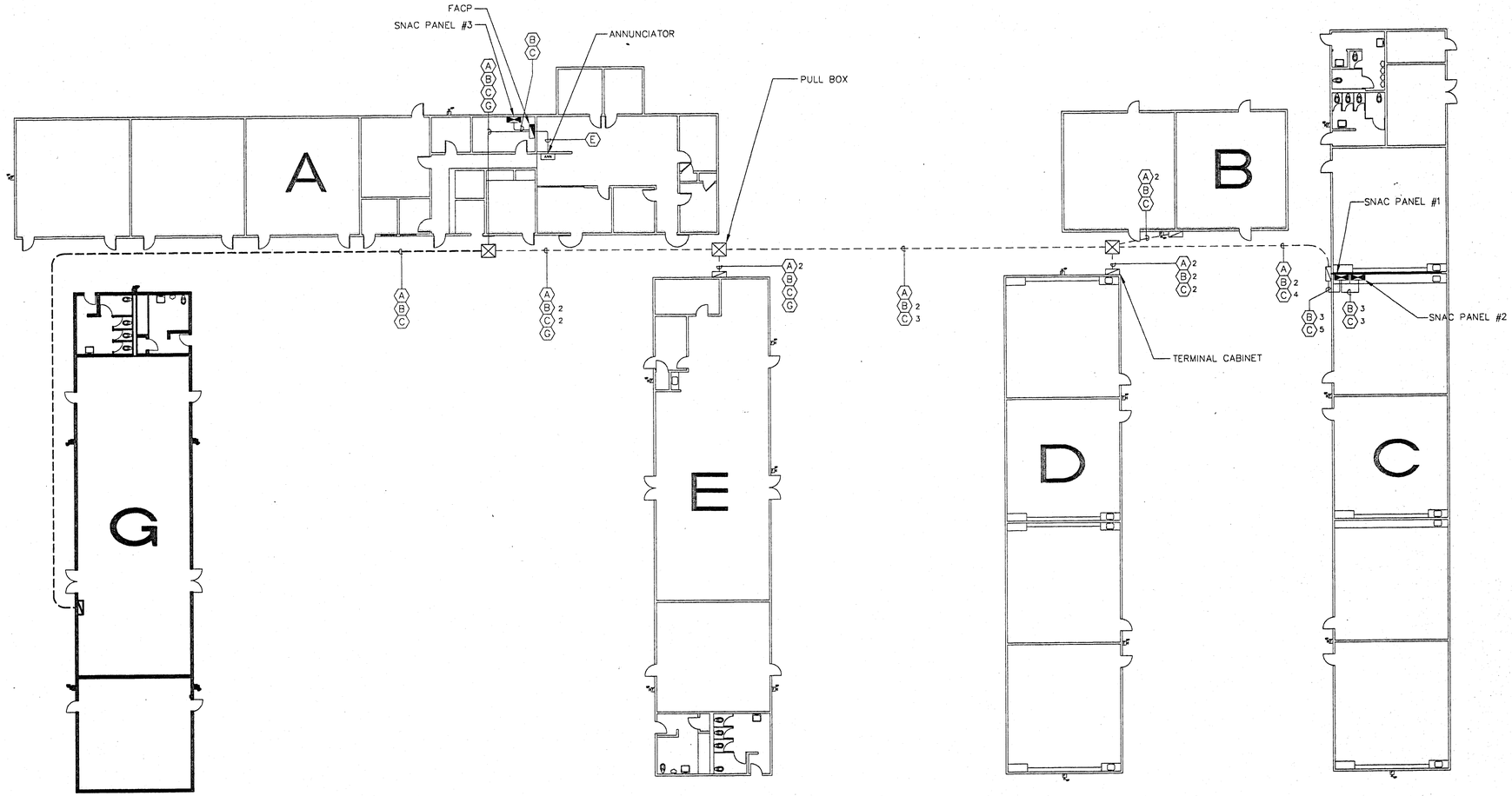
LOOP AND SIGNAL CIRCUIT SCHEDULE

ANALOG LOOP 1	BUILDINGS A, B, C, D, AND E
SIGNAL CIRCUIT 1	HORNS FOR BUILDINGS A AND B
SIGNAL CIRCUIT 2	HORNS FOR BUILDING E
SIGNAL CIRCUIT 3	HORNS FOR BUILDING D AND C
SIGNAL CIRCUIT 4	STROBES FOR BUILDING A
SIGNAL CIRCUIT 5	STROBES FOR BUILDING E
SIGNAL CIRCUIT 6	STROBES FOR BUILDING B AND D
SIGNAL CIRCUIT 7	STROBES FOR BUILDING C
SIGNAL CIRCUIT 8	SPARE
SIGNAL CIRCUIT 9	SPARE
SIGNAL CIRCUIT 10	HORNS FOR BUILDING G
SIGNAL CIRCUIT 11	SPARE
SIGNAL CIRCUIT 12	STROBES FOR BUILDING G
SIGNAL CIRCUIT 13	SPARE

SEQUENCE OF OPERATIONS – UPON ALARM AND TROUBLE CONDITION

ALARM LED	TROUBLE LED	REMOTE ANNUNCIATOR LED	ALARM HORNS	ALARM STROBES	ALARM HORN/ STROBES	TROUBLE PIEZO HORN	PANEL INTO ALARM CONDITION	HVAC TO SHUT DOWN
X	•	X	X	X	X	•	X	X

X – UPON ALARM CONDITION • – UPON TROUBLE CONDITION



SYSTEM DISTRIBUTION SITE PLAN

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

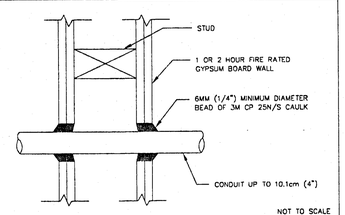
NORTH

DEVICE COUNT FOR BLDG 'G' ONLY

DEVICE	TOTAL
PULL STATION	7
EXTERIOR HORN	5
HORN/STROBE	4
STROBE ONLY	2
TAMPER SWITCH	0
FLOW SWITCH	0
DUCT DETECTORS	0

NOTE:
FIELD VERIFY LOCATION OF FLOW AND TAMPER SWITCHES

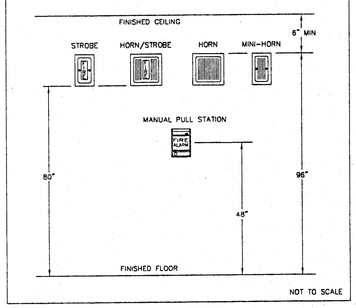
CONDUIT FIRE WALL PENETRATION DETAIL



NOT TO SCALE

NOTES:
1. REFERENCE – WL1001
2. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
3. FINISH CAULKING WITH A 6mm (1/4") MINIMUM BEAD OF 3M CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT AT ITS EGRESS FROM THE WALL.
4. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 4mm (3/16").
5. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
6. THESE RECOMMENDATIONS ARE BASED ON THE PRODUCT PERFORMANCE PER ASTM E-814 (UL 1475) FIRE TEST AND UL THROUGH PENETRATION FIRESTOP SYSTEM #WL1001 RATED UP TO 2 HOURS.

FIRE ALARM DEVICE ELEVATIONS



NOT TO SCALE

JEFFERSON

REVISIONS	BY

JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION #77/73569-00-02
BUILDING 'G'

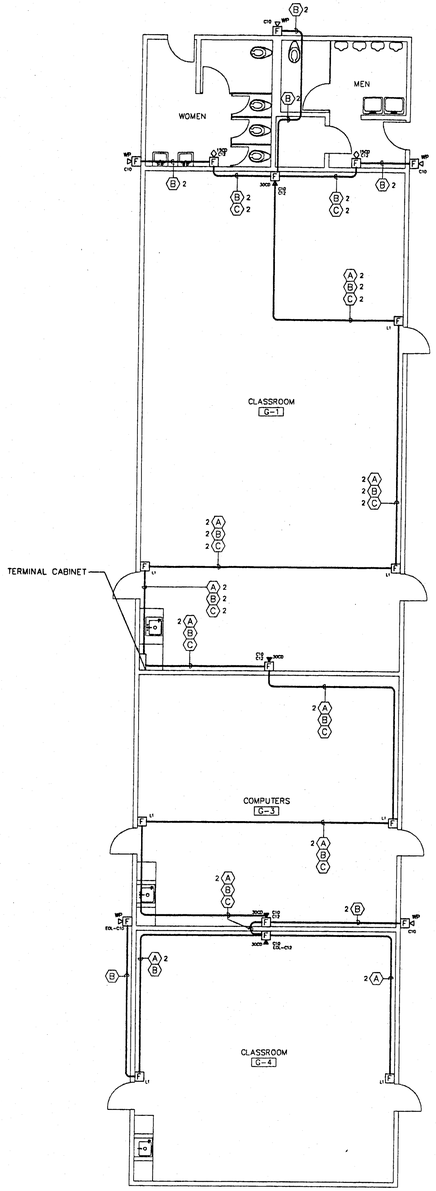
Standard Electronics
2830 Via Orange Way, Suite A
Spring Valley, CA 91978
(619) 670-2532

SITEPLAN LAYOUT FIRE ALARM SYSTEM

DATE:	1-23-99
SCALE:	1/16"=1'-0"
DRAWN:	MICHAEL GULINO
CHKD BY:	
DWG NO.	SE99-0502
JOB ID:	

SHEET NO. FA-1

OF SHEETS



NORTH

BUILDING 'G'
Scale: 1/8" = 1'-0"

WIRE LEGEND

- (A) 1#990 1 PAIR 16AWG 1 RED / 1 BLK – ANALOG LOOP 1
- (B) 2 #14 AWG 1 RED / 1 BLK – HORN CIRCUIT
- (C) 2 #14 AWG 1 PNK / 1 PRP – STROBE CIRCUIT
- (D) 3 #12 AWG 1 BLK / 1 WHT / 1 GRN –120 VAC POWER
- (E) 1 #990 1 PAIR 16AWG 1 RED / 1 BLK AND 2 #14 AWG 1 PNK / 1 PURP – REMOTE KDU ANNUNCIATOR
- (G) 2 #14 AWG 1 PNK / 1 PRP – POWER FOR DUCT DETECTORS

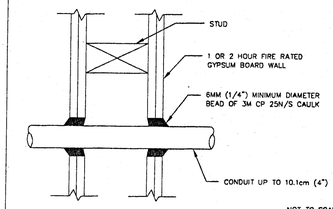
ALL CONDUIT 3/4" UNLESS OTHERWISE NOTED

DEVICE LEGEND

	FIRE ALARM CONTROL PANEL MODEL: 7200A BSU/C SFM: 7165-0694:174	SPECIAL BACKBOX SUPPLIED BY STANDARD ELECTRONICS
	FIRE ALARM TERMINAL CABINET FIELD VERIFY SIZE	SUPPLIED BY ELECTRICAL
ANN	FIRE ALARM ANNUNCIATOR MODEL: KDU SFM: 7165-694:174	SPECIAL BACKBOX SUPPLIED BY STANDARD ELECTRONICS
	FIRE ALARM AUXILLARY PANEL MODEL: SNAC SFM: 7300-694:191	SPECIAL BACKBOX SUPPLIED BY STANDARD ELECTRONICS
(D)	DUCT DETECTOR MODEL: ASD-P SFM: 7271-694:161 MODEL: DH500	SUPPLIED BY STANDARD ELECTRONICS, POWERED OFF OF FIRE ALARM CONTROL PANEL
F	MANUAL PULL STATION MODEL: MS-2 SFM: 7150-694:107	4 SQUARE DEEP BOX WITH SINGLE GANG RING
F WP	EXTERIOR HORN MODEL: NH-12/24-R SFM: 7135-0785:118	4 SQUARE DEEP BOX
F	STROBE ONLY MODEL: RSS-2415W-FR SFM: 7125-0785:141	4 SQUARE DEEP BOX WITH SINGLE GANG RING
F	HORNSTROBE MODEL: NS-24"CD"W-FR SFM: 7125-0785:133	4 SQUARE DEEP BOX WITH SINGLE GANG RING
(FS)	FLOW SWITCH	SUPPLIED BY OTHERS
(TS)	PRESSURE SWITCH	SUPPLIED BY OTHERS
J	J-BOX	SUPPLIED BY OTHERS

L1 INDICATES INITIATING LOOP NUMBER
C2 INDICATES SIGNAL CIRCUIT NUMBER

CONDUIT FIRE WALL PENETRATION DETAIL



NOT TO SCALE

NOTES:
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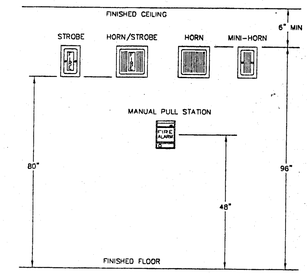
FIRE ALARM DEVICE ELEVATIONS



NOT TO SCALE

JEFFERSON

REVISIONS	BY

JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02
BUILDING 'G'

Standard Electronics
2830 Via Orange Way, Suite A
Spring Valley, CA 91978
(619) 670-2332

LOCATION LAYOUT FIRE ALARM SYSTEM

DATE:	5-4-99
SCALE:	1/8"=1'-0"
DRAWN:	MICHAEL GULINO
DWG NO.	SE99-0502
JOB ID:	

SHEET NO. FA-2

OF SHEETS

JEFFERSON

REVISIONS	BY

JEFFERSON MIDDLE SCHOOL MODERNIZATION

OCEANSIDE UNIFIED SCHOOL DISTRICT

APPLICATION # 77/73569-00-02

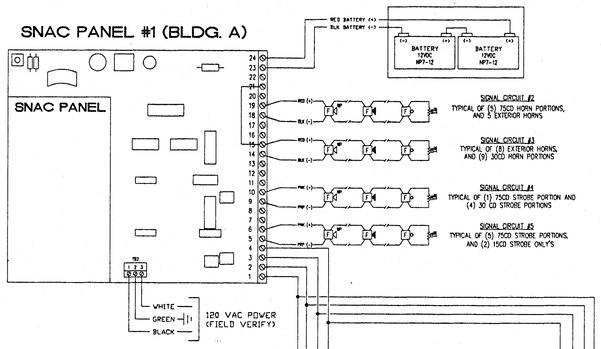
BUILDING 'G'

Standard Electronics

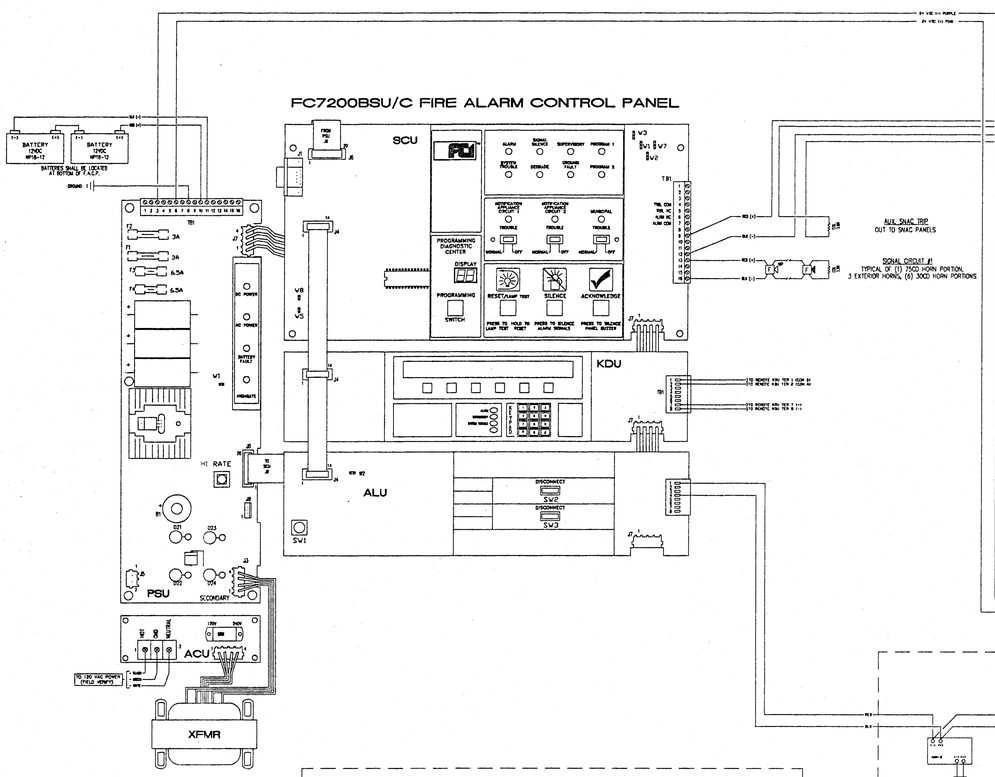
28300 Via Orange Way, Suite A
Valley Ctr, CA 91978
(619) 670-2332

POINT TO POINT FIRE ALARM SYSTEM

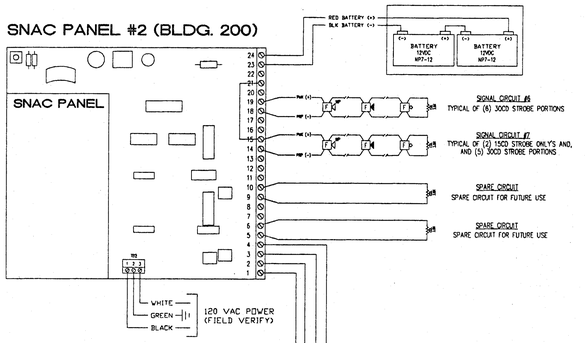
SNAC PANEL #1 (BLDG. A)



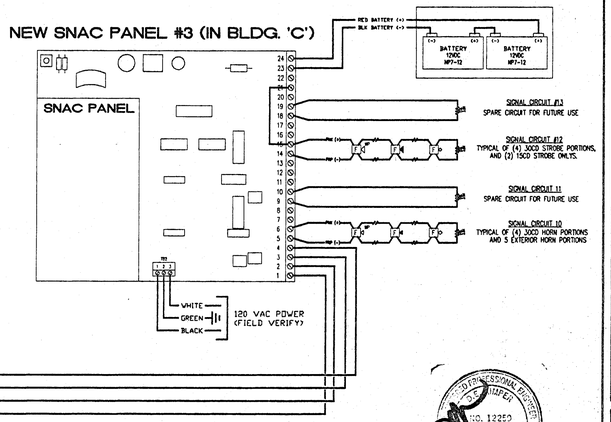
FC7200BSU/C FIRE ALARM CONTROL PANEL

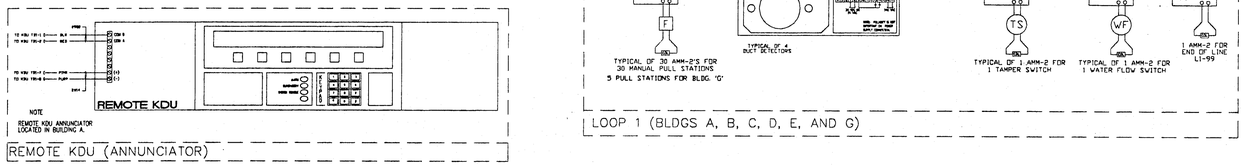


SNAC PANEL #2 (BLDG. 200)



NEW SNAC PANEL #3 (IN BLDG. 'C')





DATE:	5-4-99
SCALE:	1/8"=1'-0"
DRAWN:	MICHAEL GULINO
DWG NO.	SE99-0502
JOB ID:	

SHEET NO. FA-3

OF SHEETS

BATTERY CAPACITY CALCULATION SHEET
FC7200A 'C'

JOB: JEFFERSON MIDDLE SCHOOL
DATE: JANUARY 19, 1999

QUANT	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMPS)	STANDBY TOTAL CURRENT (AMPS)	ALARM UNIT CURRENT (AMPS)	ALARM TOTAL CURRENT (AMPS)
1	FC7200A 'C'	ANALOG CONTROL PANEL WHICH INCLUDES ALU, PSU, AND SOU	0.072	0.072	0.287	0.287
1	KDU	KEYBOARD DISPLAY UNIT	0.050	0.050	0.057	0.057
2	AOM-2	ADDRESSABLE MONITOR MODULE	0.001	0.002	0.001	0.002
32	AIM-2	ADDRESSABLE MONITOR MODULE	0.001	0.032	0.013	0.418
4	ASD-P	SMOKE DETECTORS (PHOTOELECTRIC)	0.000	0.001	0.005	0.020
1	NS4-2475W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.027
9	NS4-2475W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.133	0.000
6	NS4-2430W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.162
0	NS4-2430W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.081	0.000
0	RSS-2415W-FR	15CD STROBE ONLY	0.000	0.000	0.050	0.000
4	NH-12/24-R	EXTERIOR HORN	0.000	0.000	0.027	0.108
	TOTAL			0.157		1.079

BATTERY CALCULATIONS

ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 60 HRS
B) REQ'D BATTERY BACKUP - ALARM 15 MIN (0.25000 HOURS)
C) ALLOWABLE ERROR 25%

D) TOTAL STANDBY BACKUP (AMP/HOURS) 9.41
E) TOTAL ALARM BACKUP 0.27
F) ALLOWABLE ERROR (C X (D+E)) 2.42
TOTAL AMP/HR REQ'D (D+E+F) 12.10 AMP/HRS

BATTERIES SUBMITTED: NP18-12 AMP HOUR: 18 AH

7200A 'C' BATTERY CALCULATION

BATTERY CAPACITY CALCULATION SHEET
SNAC 1

JOB: JEFFERSON MIDDLE SCHOOL
DATE: JANUARY 19, 1999

QUANT	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMPS)	STANDBY TOTAL CURRENT (AMPS)	ALARM UNIT CURRENT (AMPS)	ALARM TOTAL CURRENT (AMPS)
1	SNAC	SNAC PANEL	0.060	0.060	0.120	0.120
5	NS4-2475W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.135
6	NS4-2475W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.133	0.798
9	NS4-2430W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.243
4	NS4-2430W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.081	0.324
2	RSS-2415W-FR	15CD STROBE ONLY	0.000	0.000	0.050	0.100
13	NH-12/24-R	EXTERIOR HORN	0.000	0.000	0.027	0.351
	TOTAL			0.060		2.071

BATTERY CALCULATIONS

ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 60 HRS
B) REQ'D BATTERY BACKUP - ALARM 15 MIN (0.25000 HOURS)
C) ALLOWABLE ERROR 25%

D) TOTAL STANDBY BACKUP (AMP/HOURS) 3.60
E) TOTAL ALARM BACKUP 0.52
F) ALLOWABLE ERROR (C X (D+E)) 1.03
TOTAL AMP/HR REQ'D (D+E+F) 5.15 AMP/HRS

BATTERIES SUBMITTED: NP7-12 AMP HOUR: 7 AH

SNAC PANEL 1 BATTERY CALCULATION

BATTERY CAPACITY CALCULATION SHEET
SNAC 2

JOB: JEFFERSON MIDDLE SCHOOL
DATE: JANUARY 19, 1999

QUANT	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMPS)	STANDBY TOTAL CURRENT (AMPS)	ALARM UNIT CURRENT (AMPS)	ALARM TOTAL CURRENT (AMPS)
1	SNAC	SNAC PANEL	0.060	0.060	0.120	0.120
0	NS4-2475W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.000
0	NS4-2475W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.133	0.000
0	NS4-2430W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.000
11	NS4-2430W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.081	0.891
2	RSS-2415W-FR	15CD STROBE ONLY	0.000	0.000	0.050	0.100
0	NH-12/24-R	EXTERIOR HORN	0.000	0.000	0.027	0.000
	TOTAL			0.060		1.111

BATTERY CALCULATIONS

ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 60 HRS
B) REQ'D BATTERY BACKUP - ALARM 15 MIN (0.25000 HOURS)
C) ALLOWABLE ERROR 25%

D) TOTAL STANDBY BACKUP (AMP/HOURS) 3.60
E) TOTAL ALARM BACKUP 0.28
F) ALLOWABLE ERROR (C X (D+E)) 0.97
TOTAL AMP/HR REQ'D (D+E+F) 4.85 AMP/HRS

BATTERIES SUBMITTED: 1 NP7-12 AMP HOUR: 7 AH

SNAC PANEL 2 BATTERY CALCULATION

BATTERY CAPACITY CALCULATION SHEET
SNAC 3

JOB: JEFFERSON MIDDLE SCHOOL
DATE: MAY 4, 1999

QUANT	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMPS)	STANDBY TOTAL CURRENT (AMPS)	ALARM UNIT CURRENT (AMPS)	ALARM TOTAL CURRENT (AMPS)
1	SNAC	SNAC PANEL	0.060	0.060	0.120	0.120
0	NS4-2475W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.000
0	NS4-2475W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.133	0.000
4	NS4-2430W-FR	HORN/STROBE (HORN PORTION ONLY)	0.000	0.000	0.027	0.108
4	NS4-2430W-FR	HORN/STROBE (STROBE PORTION ONLY)	0.000	0.000	0.081	0.324
2	RSS-2415W-FR	15CD STROBE ONLY	0.000	0.000	0.050	0.100
5	NH-12/24-R	EXTERIOR HORN	0.000	0.000	0.027	0.135
	TOTAL			0.060		0.787

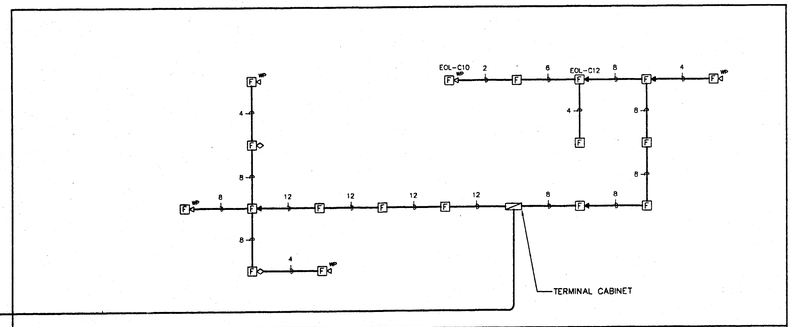
BATTERY CALCULATIONS

ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 60 HRS
B) REQ'D BATTERY BACKUP - ALARM 15 MIN (0.25000 HOURS)
C) ALLOWABLE ERROR 25%

D) TOTAL STANDBY BACKUP (AMP/HOURS) 3.60
E) TOTAL ALARM BACKUP 0.20
F) ALLOWABLE ERROR (C X (D+E)) 0.95
TOTAL AMP/HR REQ'D (D+E+F) 4.75 AMP/HRS

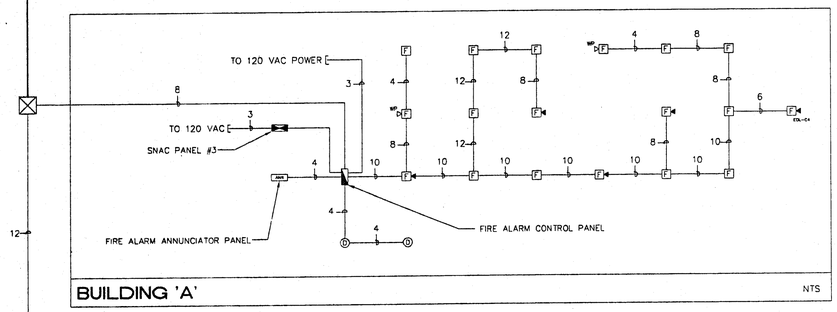
BATTERIES SUBMITTED: NP7-12 AMP HOUR: 7 AH

SNAC PANEL 3 BATTERY CALCULATION



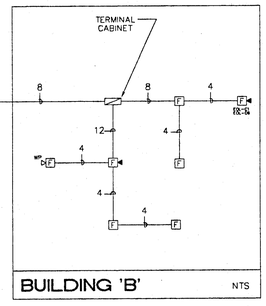
BUILDING 'G'

NTS



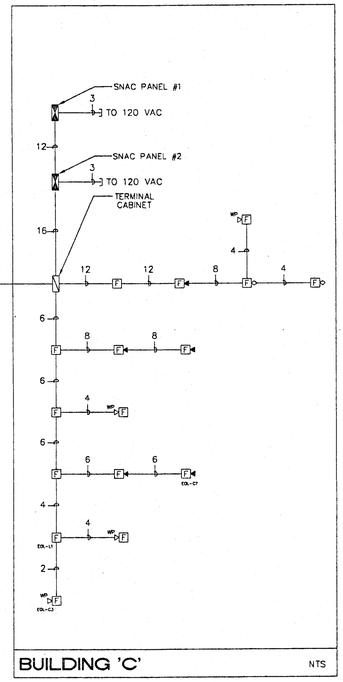
BUILDING 'A'

NTS



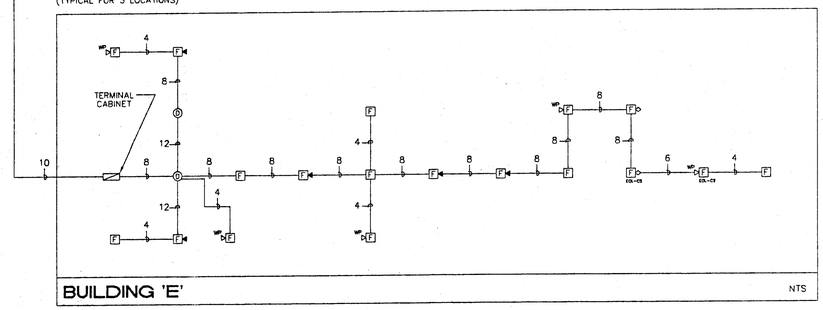
BUILDING 'B'

NTS



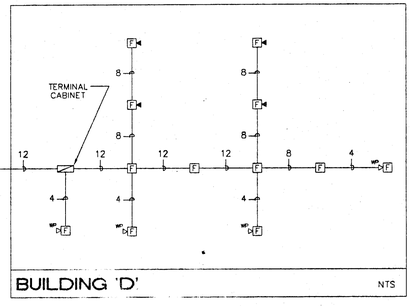
BUILDING 'C'

NTS



BUILDING 'E'

NTS



BUILDING 'D'

NTS

VOLTAGE LOSS CALCULATIONS

JANUARY 19, 1999
JEFFERSON MIDDLE SCHOOL

VOLTAGE LINE LOSS FORMULA A:
(A) X (F) X (C) / (D)/ (E) = % LINE LOSS

(A)AMPS	
NS4-2475W-FR(HORNSTROBE-H.P.)	0.027
NS4-2475W-FR(HORNSTROBE-S.P.)	0.133
NH-12/24-R (EXTERIOR HORN)	0.027
RSS-2415W-FR (15CD STROBE ONLY)	0.050
NS4-2430W-FR(HORNSTROBE-H.P.)	0.027
NS4-2430W-FR(HORNSTROBE-S.P.)	0.081

OTHER DATA

(B) WIRE GAUGE	14
(C) WIRE RESISTANCE	21.6
(D) CIRCULAR MILS	4110
(E) VOLTS (DC)	24
(F) LINE WIRE FOOTAGE	

LOOP	(H.P.) 75CD HORN STROBE	(S.P.) 75CD HORN STROBE	EXT HORN	15CD STROBE ONLY	(H.P) 30CD HORN STROBE	(S.P) 30CD HORN STROBE	TOTAL AMPS	LINE WIRE FOOTAGE	VOLTAGE LOSS	% LINE LOSS
FC-7200A 'C'										
AUX. CIRCUIT (SNAC PANEL TRIP)	0	0	0	0	0	0	0.016	1000	0.08	0.35%
CIRCUIT 1 (HORNS BLDG.'S A AND B)	1	0	4	0	6	0	0.297	1000	1.56	6.50%
TOTAL	1	0	4	0	6	0	0.313			
SNAC PANEL 1										
CIRCUIT 2 (HORNS BLDG.E)	5	0	5	0	0	0	0.270	500	0.71	2.96%
CIRCUIT 3 (HORNS BLDG. D AND C)	0	0	8	0	9	0	0.459	800	1.93	8.04%
CIRCUIT 4 (STROBES BLDG. A)	0	1	0	0	0	4	0.457	615	1.48	6.15%
CIRCUIT 5 (STROBES BLDG. E)	0	5	0	2	0	0	0.765	500	2.01	8.38%
TOTAL	5	6	13	2	9	4	1.951			
SNAC PANEL 2										
CIRCUIT 6 (STROBES BLDG.B AND D)	0	0	0	0	0	6	0.486	495	1.26	5.27%
CIRCUIT 7 (STROBES BLDG. C)	0	0	0	2	0	5	0.505	330	0.88	3.65%
CIRCUIT 8 (HORNS BLDG. G)	0	0	2	0	4	0	0.162	530	0.45	1.88%
CIRCUIT 9 (STROBES BLDG. G)	0	4	0	2	0	0	0.632	575	1.91	7.96%
TOTAL	0	4	2	4	4	11	1.785			
SNAC PANEL 3										
CIRCUIT 10 (HORNS BLDG. G)	0	0	5	0	4	0	0.243	550	0.70	2.93%
CIRCUIT 11 (SPARE)	0	0	0	0	0	0	0.000	0	0.00	0.00%
CIRCUIT 12 (STROBES BLDG. G)	0	0	0	2	0	4	0.424	600	1.34	5.57%
CIRCUIT 13 (SPARE)	0	0	0	0	0	0	0.000	0	0.00	0.00%
TOTAL	0	0	5	2	4	4	0.667			

JEFFERSON

REVISIONS	BY

JEFFERSON MIDDLE SCHOOL MODERNIZATION
OCEANSIDE UNIFIED SCHOOL DISTRICT
APPLICATION # 77/73569-00-02
BUILDING 'G'

Standard Electronics
2830 Via Orange Way, Suite A
Spring Valley, CA 91978
(619) 670-2332

FIRE ALARM RISER DIAGRAM

DATE: 5-4-99
SCALE: 1/8"=1'-0"
DRAWN: MICHAEL GULINO
DWG NO. SE99-0502
JOB ID:

SHEET NO. FA-4
OF SHEETS