

SPECIAL NOTES:

1) ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT, FOLLOWING LISTED CODES: THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH SUPPLEMENTS (GREENBOOK); AND THE "SAN DIEGO AREA REGIONAL STANDARD DRAWINGS", AS AMENDED BY THE SUPPLEMENTS; AND EARTHWORK SPECIFICATIONS ATTACHED TO THE "UPDATED SOILS REPORT".

2) ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER.

3) CUT AND FILL SLOPES SHALL BE TRIMMED TO FINISH GRADES TO PRODUCE A SMOOTH AND UNIFORM SURFACE OF CROSS SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ARCHITECT. FINISHED SLOPES SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS OR OTHER WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE.

4) COMPACTION TESTS SHALL BE SUPPLIED FOR ALL TRENCH BACKFILL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REQUIREMENTS AND PROJECT SPECIFICATIONS.

5) ALL PIPELINES TO BE ABANDONED SHALL BE REMOVED AND REPLACED WITH PROPERLY COMPACTED SOILS UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.

6) THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES.

7) NEITHER THE OWNER, ARCHITECT NOR ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

8) THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PERFORMING DEMOLITION OPERATIONS. EXISTING UTILITY LOCATIONS ARE SHOWN PER RECORD DRAWINGS. ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF EXISTING UTILITIES. CONTRACTOR SHALL VERIFY LOCATION, SIZE, ETC., OF EXISTING UTILITIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO SCHEDULING WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED CONSTRUCTION.

9) THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS AND IF THOSE CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS, HE SHALL NOTIFY THE ARCHITECT PRIOR TO COMMENCING WORK ON THE PROJECT.

10) CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROL REQUIREMENTS AS DETAILED ON THESE PLANS AND IN THE STORM WATER POLLUTION PREVENTION PLAN TO BE PROVIDED BY THE CONTRACTOR FOR THE OWNERS APPROVAL.

11) MAXIMUM CUT OR FILL SLOPE RATIO SHALL BE 2:1.

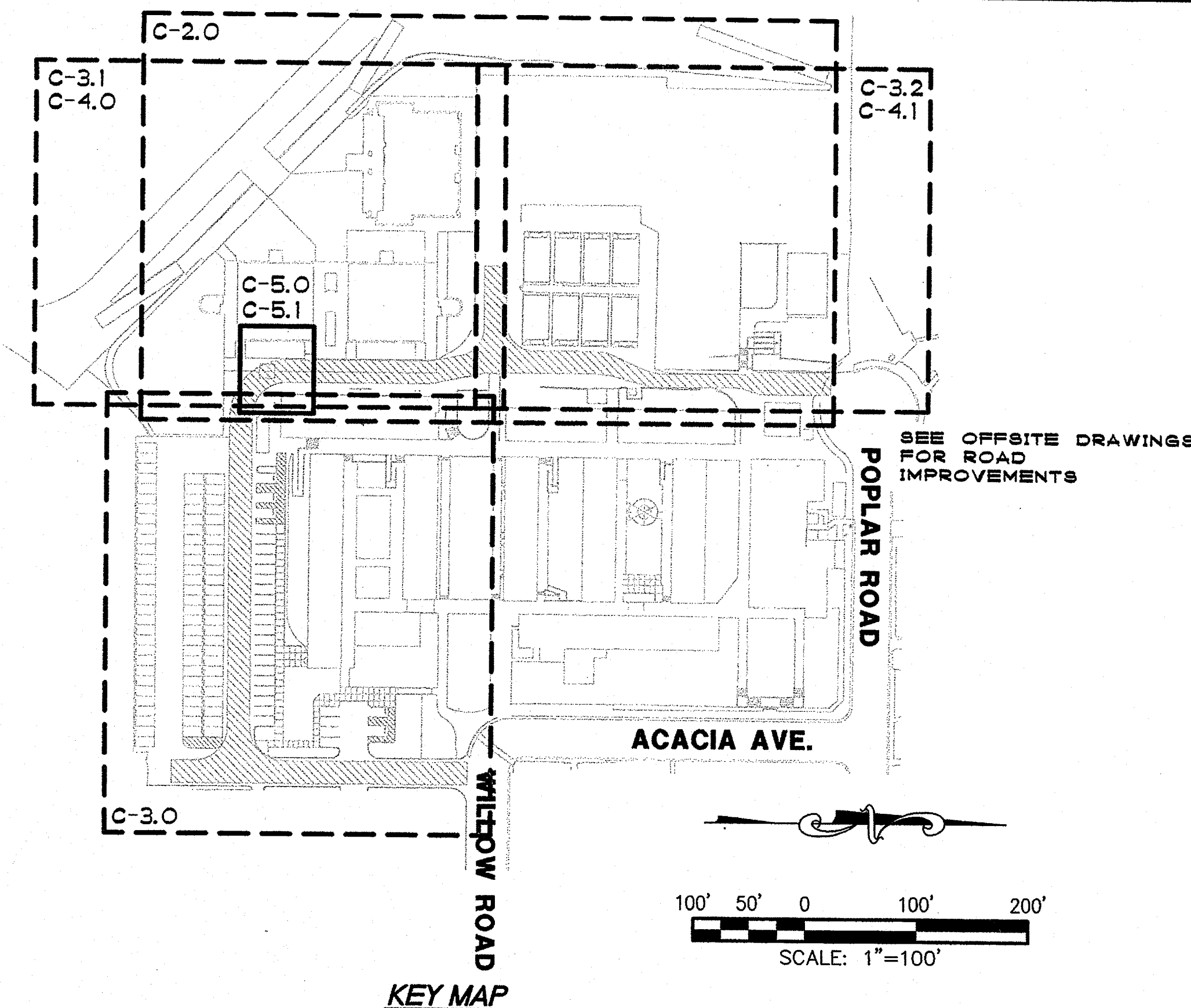
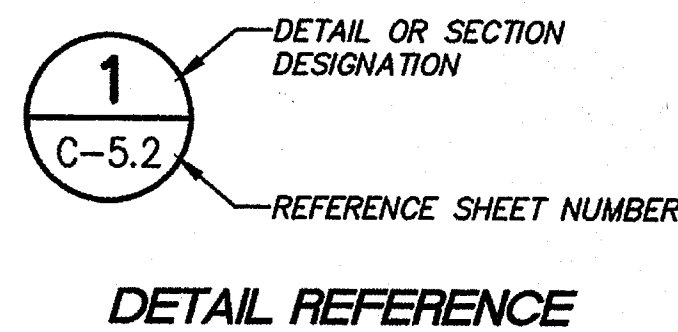
12) A TWELVE INCH HIGH BY TWO FOOT WIDE BERM (90% COMPACTED) SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SLOPES GREATER THAN SIX VERTICAL FEET IN HEIGHT. NO RUNOFF SHALL FLOW OVER THE TOP OF SLOPE.

13) ALL DISTURBED AREAS MUST BE REVEGETATED, SUBSTANTIALLY GERMINATED AND ESTABLISHED WITHIN 45 DAYS OF COMPLETION OF GRADING AND PRIOR TO REQUESTING FINAL INSPECTION.

14) IMPORT MATERIAL SHALL BE OBTAINED FROM, AND WASTE MATERIAL SHALL BE DEPOSITED AT A SITE APPROVED BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTES OR ADJACENT STREETS AS DIRECT RESULT OF THE OPERATION. CONTRACTOR SHALL OBTAIN HAUL ROUTE PERMIT FROM THE CITY OF OCEANSIDE FOR HAULING ON A PUBLIC STREET.

15) ALL RECOMMENDATIONS OF THE UPDATED GEOTECHNICAL REPORT SHALL BE IMPLEMENTED AS A PART OF THE GRADING, EARTH MOVING OPERATION, UTILITY INSTALLATION AND SURFACE IMPROVEMENTS.

16) THE ARCHITECT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OF GRADING OPERATIONS.



KEY MAP

PAVING NOTES:

1) UTILITY TRENCH BACKFILL SHALL BE COMPACTION TESTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL INFORM THE INSPECTOR OF UTILITY TRENCH BACKFILL COMPACTION TEST RESULTS, IN WRITING, PRIOR TO THE PLACEMENT OF BASE MATERIAL.

2) SUBBASE GRADE SHALL BE COMPACTION TESTED TO 95% TO A DEPTH OF 12" TESTED AND APPROVED FOR LINE AND GRADE BY SOILS ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIAL.

3) BASE MATERIAL SHALL BE CRUSHED AGGREGATE BASE MATERIAL ACCORDING TO SECTION 203-6.3.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION (CLASS C2).

4) AGGREGATE BASE SHALL BE COMPACTION TESTED AS SPECIFIED ABOVE, TESTED, AND APPROVED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF ASPHALTIC CONCRETE.

5) PRIOR TO THE PLACEMENT OF ASPHALTIC CONCRETE A PRIME COAT MUST BE APPLIED TO ALL VERTICAL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH ASPHALT. THE SURFACE OF THE CRUSHED AGGREGATE BASE SHALL BE COATED WITH 0.25 GAL./SQ.YD. OF MC-70, SC-70 OR MC-250 LIQUID ASPHALT PRIOR TO ASPHALT PLACEMENT.

6) ASPHALTIC CONCRETE SHALL CONFORM TO PART 4 SECTION 400-4.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, (TYPE III, CLASS C2, GRADE AR 4000).

7) PLACEMENT OF ASPHALTIC CONCRETE FOR ALL IMPROVEMENTS SHALL BE DONE IN ACCORDANCE TO SECTION 302-5.6.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. TESTING SHALL BE DONE BY A PERSON TRAINED TO PERFORM ASPHALTIC CONCRETE COMPACTION TESTING.

8) A "SEAL COAT" SHALL BE APPLIED TO THE FINISHED SURFACE OF ALL ASPHALT PAVING AT A RATE OF 0.1 GAL./SQ.YD. THE SEAL COAT SHALL BE TYPE SS-1 OR TYPE SS-1H ASPHALTIC EMULSION WITH A 60-70 GRADE LIQUID ASPHALT.

SOILS ENGINEER CERTIFICATION

THIS GRADING PLAN HAS BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AS OUTLINED IN OUR SOILS REPORT FOR THIS PROJECT.

SOILS ENGINEER OF RECORD: NAME SEAL

ENGINEERING GEOLOGIST OF RECORD: NAME SEAL

CONSTRUCTION TESTING & ENGINEERING, INC
2414 VINEYARD AVENUE, SUITE G
ESCONDIDO, CA 92029

DECLARATION OF ENGINEER OF WORK

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE AGENCY IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH AGENCY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

STEVEN J. BARGER R.C.E. 34318 EXPIRES 09-30-05

DATE: 3/21/2005

POROUS PAVING NOTES:

1. POROUS PAVING SHALL CONFORM TO ALL OF THE REQUIREMENTS OF THE PAVING NOTES EXCEPT AS MODIFIED BY THESE POROUS PAVING NOTES.

2. ALL AGGREGATE FOR POROUS PAVING INCLUDING BASE MATERIAL SHALL CONSIST OF CLEAN WASHED ROCK. NO FINE MATERIALS SUCH AS DIRT, FILLER, SAND, CEMENT ARE ALLOWED. ALL SUCH MATERIALS MUST BE SCREENED OUT PRIOR TO THOROUGHLY WASHING THE ROCK.

3. POROUS PAVING SHALL CONFORM TO THE FOLLOWING POROSITY REQUIREMENTS: ASPHALT LAYER 20% BASE LAYER 40%.

4. CONTRACTOR SHALL PROVIDE A TEST STRIP THE SIZE OF A SINGLE PARKING SPACE. THE ARCHITECT SHALL PERFORM WATER TESTING TO VERIFY THE SPECIFIED POROSITY. IF THE TEST PASSES, THE TEST STRIP MAY BE INCORPORATED INTO THE FINISHED PRODUCT.

5. THE SEAL COAT SHALL NOT BE APPLIED.

6. THE CONTRACTOR SHALL PROTECT THE POROUS PAVING FROM CONTAMINATION DURING THE WARRANTY PERIOD. MINIMUM WEEKLY STREET SWEEPING SHALL BE REQUIRED. THE ARCHITECT OR CONSTRUCTION MANAGER MAY MODIFY THE SWEEPING SCHEDULE OR ORDER POWER WASHING TO ENFORCE THESE PROVISIONS.

7. STANDARD POROUS ASPHALT MIX:

US STANDARD SIEVE SIZE	PERCENT PASSING
1/2 IN.	100%
3/8 IN.	95%
#4	35%
#8	15%
#16	10%
#30	2%

8. THE UNDERLYING STONE RECHARGE BED SHALL CONSIST OF A UNIFORMLY GRADED (IE SCREENED) 1.5 - 2.5 IN. CLEANED WASHED STONE MIX. DUSTY OR DIRTY STONES SHALL BE REJECTED. NATIVE MATERIALS PLACED BELOW THE STONE BED SHALL HAVE A SAND EQUIVALENT INDEX OF 25. COMPACTION SHALL BE 95% RC FOR THE UPPER 12 INCHES.

WORK TO BE DONE

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS: THE CURRENT SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR IMPROVEMENT OF SUBDIVISION STREETS AND STANDARD REFERENCE DRAWINGS.

STANDARD SPECIFICATIONS:

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2003 EDITION) INCLUDING REGIONAL SUPPLEMENT AMENDMENTS.
- CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF TRAFFIC CONTROLS, FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, 1996 EDITION.
- CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, JULY 2002 EDITION.

STANDARD DRAWINGS:

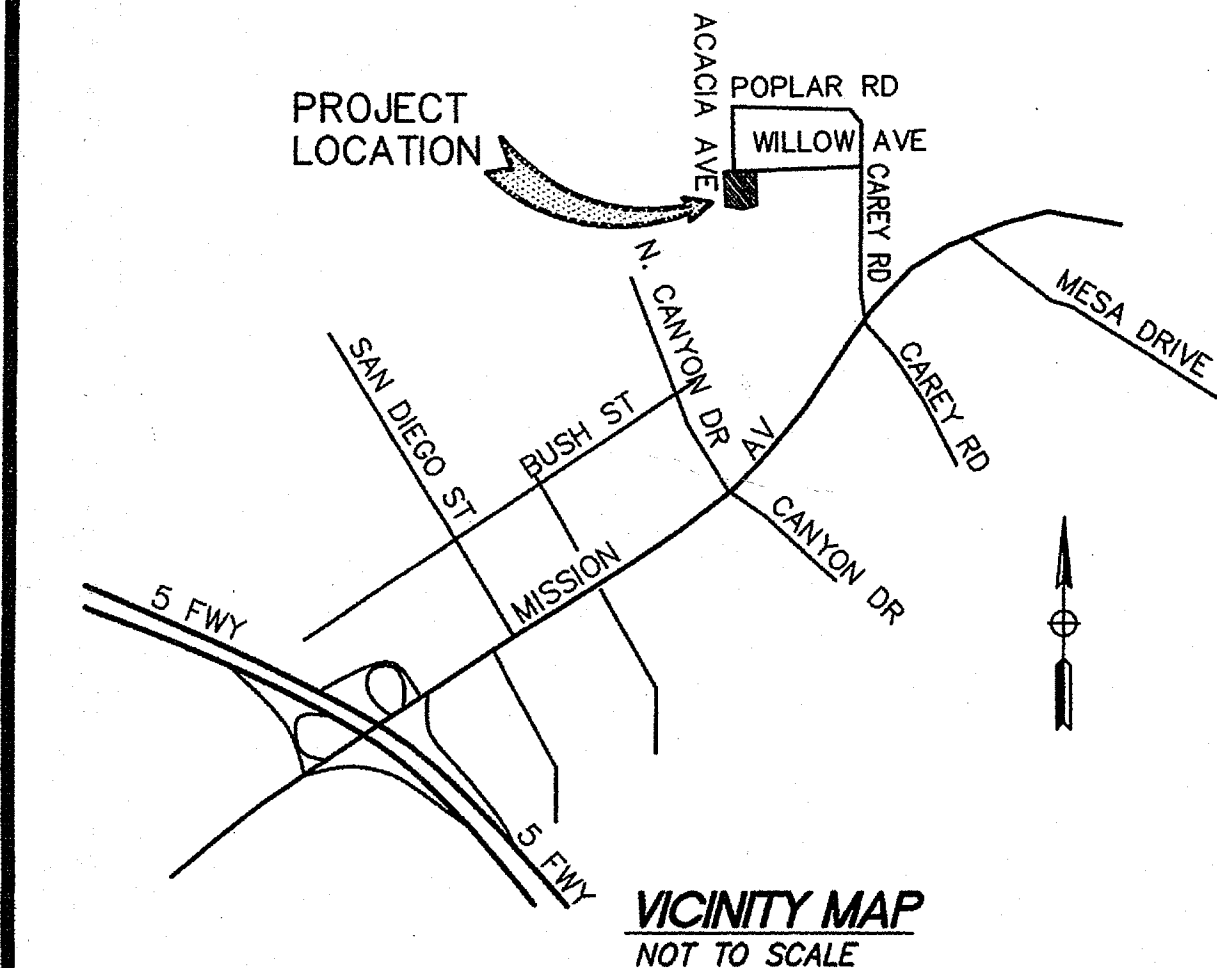
- SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD), MARCH 2000 EDITION.
- STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, 2002 EDITION.
- CITY OF OCEANSIDE STANDARD DRAWINGS CURRENT EDITION (OSD)

LEGEND:

DESCRIPTION	STD. DWGS	SYMBOL
CONSTRUCT 3" AC OVER 4" BASE (HARDCOURT)	PER SOILS ENGINEER	
CONSTRUCT 3" GRIND AND OVERLAY (PARKING)	PER SOILS ENGINEER	
CONSTRUCT 6" POROUS AC ON 12" BASE (PARKING)	PER SOILS ENGINEER	
CONSTRUCT PCC CONCRETE CURB AND CUTTER	SDRSD G-2 PER SOILS ENGINEER	
CONSTRUCT PCC CONCRETE CURB	SDRSD G-1 PER SOILS ENGINEER	
CONSTRUCT 4" PCC SIDEWALK	SDRSD G-7 PER SOILS ENGINEER	
CONCRETE WHEEL STOPS	PER ARCHITECTURAL DRAWINGS	
STRIPING AND SIGNING	PER ARCHITECTURAL DRAWINGS	
CONSTRUCT 3" PCC CROSS GUTTER	SDRSD G-12 PER SOILS ENGINEER	
CONSTRUCT PEDESTRIAN RAMP	SDRSD G-27 AND DETAIL SHEET C-5.2	
CONSTRUCT PCC DRIVEWAYS	G-14A PER SOILS ENGINEER	
2" X 10" REDWOOD HEADER		
BROOKS CATCH BASIN	DETAIL 2 SHEET C5.2	
STORM DRAIN PIPE SDR-35	SDRSD S-4C	
CUT SLOPE (2:1)		
FILL SLOPE (2:1)		
2" COPPER WATER LINE	OSD W-9	
4" PVC C-900 FIRE SERVICE	SDRSD W-17, W-21	
8" PVC C-900 FIRE LINE	SDRSD W-17, W-21	
4" GATE VALVE	OSD W-6	
THRUST BLOCK	OSD W-4	
FIRE HYDRANT ASSEMBLY	OSD W-2	
POST INDICATOR VALVE AND FIRE DEPT. CONNECTION	OSD W-16	
BLIND FLANGE		
SEWER LATERAL SDR35	SDRSD S-13, S-14	
SEWER CLEANOUT	SDRSD S-3, S-16	
SEWER MANHOLE	SDRSD S-17	
CONNECT TO EXIST. SEWER		
4" FORCE MAIN SCH 40 PVC	SDRSD S-4C	
REMOVE/REPLACE SEWER PUMP STATION	SHEET C5.0, C5.1	

CIVIL ENGINEERING DRAWING INDEX

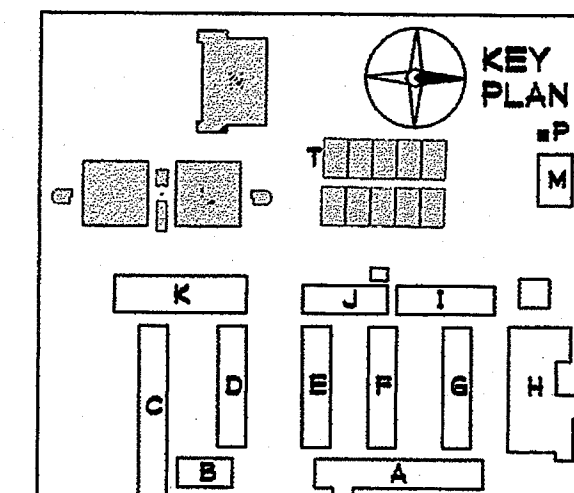
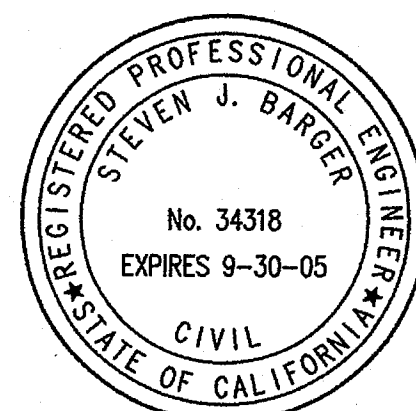
01 GENERAL NOTES	C-1.0
02 DEMOLITION PLAN	C-2.0
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04 GRADING AND DRAINAGE PLAN	C-3.1
05 GRADING AND DRAINAGE PLAN	C-3.2
06 SEWER AND WATER PLAN	C-4.0
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08 LIFT STATION DETAILS	C-5.0
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12 STANDARD DRAWINGS	C-6.1
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14 STANDARD DRAWINGS	C-6.3



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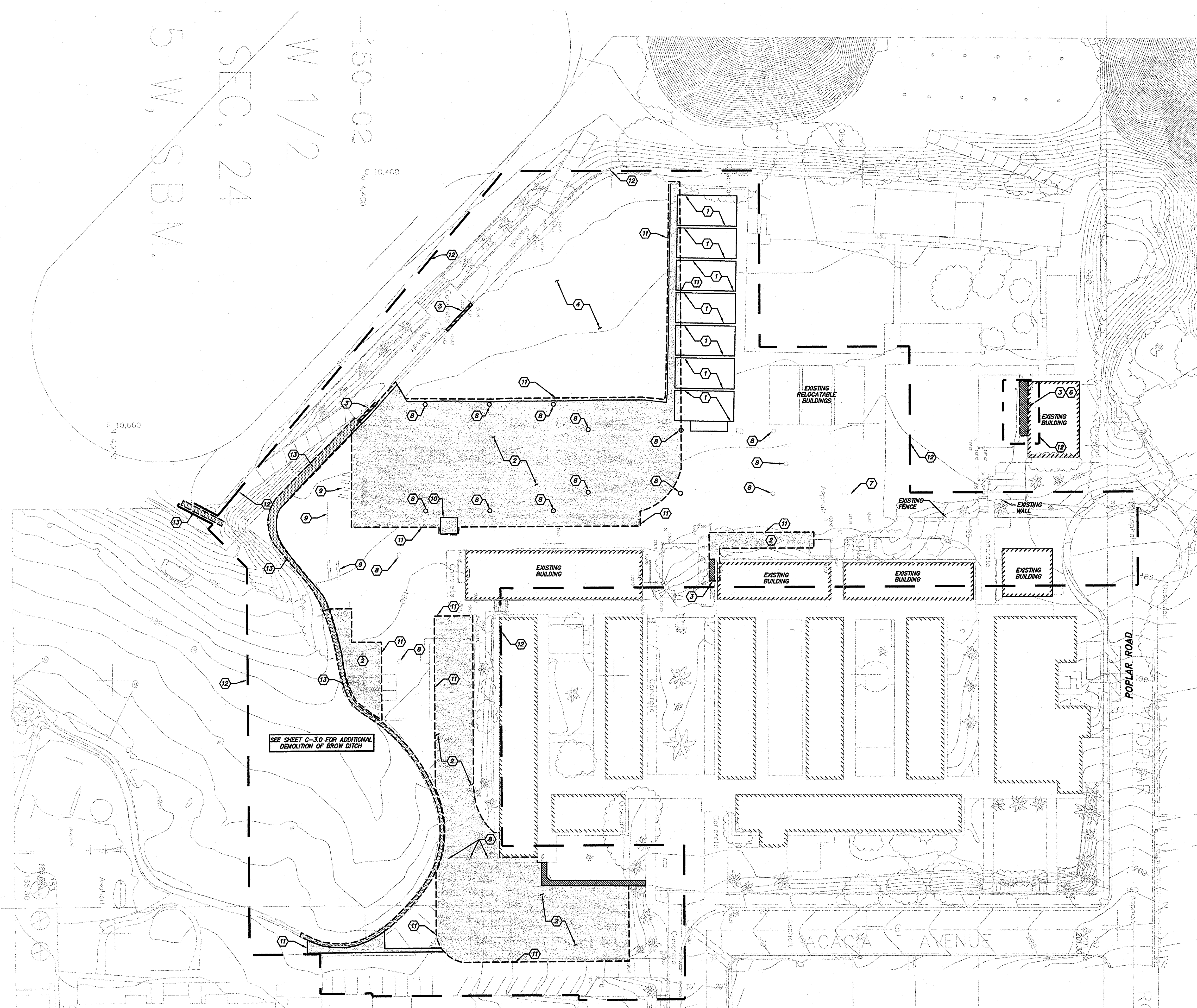
GROTH ARCHITECTS, INC.
3355 MISSION AVE.
OCEANSIDE, CALIFORNIA 92054

PROJECT NO. 025
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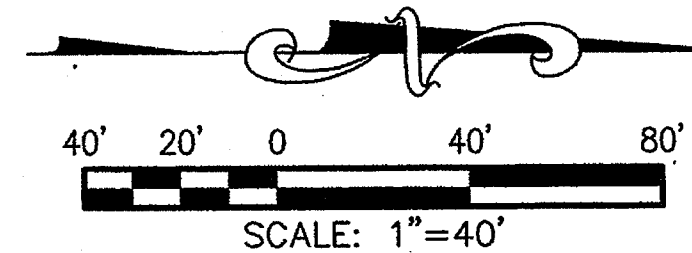
REGISTERED PROFESSIONAL ARCHITECT
JOHN SCOTT BLOCH
C-26609
4/30/2007
FORNERS

KEY PLAN
GENERAL NOTES
C-1.0



- NOTE:**
1. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. NOTIFY ARCHITECT OF ANY DISCREPANCY.
 2. CONTRACTOR TO ADJUST ALL EXISTING GATE VALVES, CLEANOUTS, MANHOLES AND OTHER APPURTENANCES TO GRADE.
 3. ALL UTILITIES NOT SPECIFICALLY DESIGNATED TO BE ABANDONED SHALL BE "PROTECTED IN PLACE" AND PROVIDE UNINTERRUPTED SERVICE THROUGHOUT CONSTRUCTION.

- BROW DITCH REMOVAL
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- SAWCUT

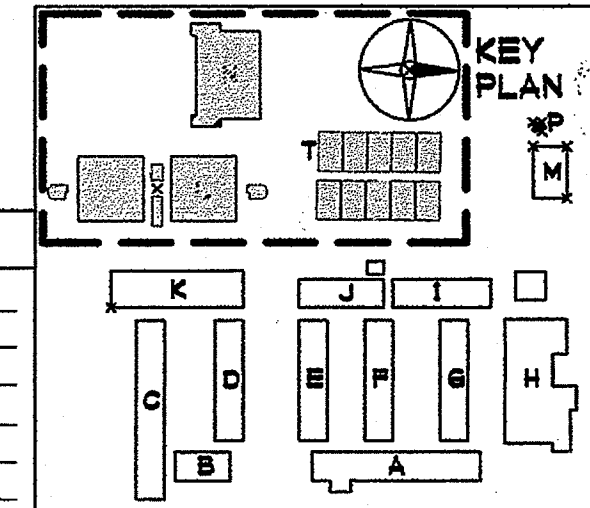


DEMOLITION NOTES:

- 1 REMOVE AND RELOCATE EXISTING RELOCATABLE BUILDINGS (DISCONNECT ALL UTILITIES) APPROXIMATELY 7 STRUCTURES SEE ARCHITECTURAL DRAWINGS. RECONNECT UTILITIES AS REQUIRED SEE ELECTRICAL DRAWINGS.
- 2 REMOVE EXISTING ASPHALT CONCRETE
- 3 SAWCUT CONCRETE
- 4 CLEAR AND GRUB
- 5 NOT USED
- 6 REMOVE CONCRETE
- 7 REMOVE WALL INCLUDING FOOTINGS
- 8 REMOVE STEEL POLES (APPROX 18) INCLUDING FOOTINGS
- 9 REMOVE PLAYGROUND EQUIPMENT INCLUDING FOOTINGS
- 10 REMOVE PUMP HOUSE WOOD STRUCTURE INCLUDING FOOTINGS SEE SHEET C-5.0 AND C-5.1 FOR LIFT STATION RELOCATION
- 11 SAWCUT ASPHALT CONCRETE
- 12 LIMIT OF WORK
- 13 REMOVE ASPHALT BROW DITCH

BENCHMARK:

Description: CITY OF OCEANSIDE BENCHMARK A2
BRASS DISK STAMPED "CITY OF OCEANSIDE"
Location: N'LY SIDE MISSION AVE. @ I-5 OVERPASS
150' +/- E'LY OF CENTERLINE OF I-5 @ BACK SIDEWALK
Record From: CITY OF OCEANSIDE
Elev: 144.71 Datum: M.S.L.



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CUSD NO. 758-000
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P. T. N. 73569-9
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REVISIONS

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

GROTH ARCHITECTS, INC.
3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291
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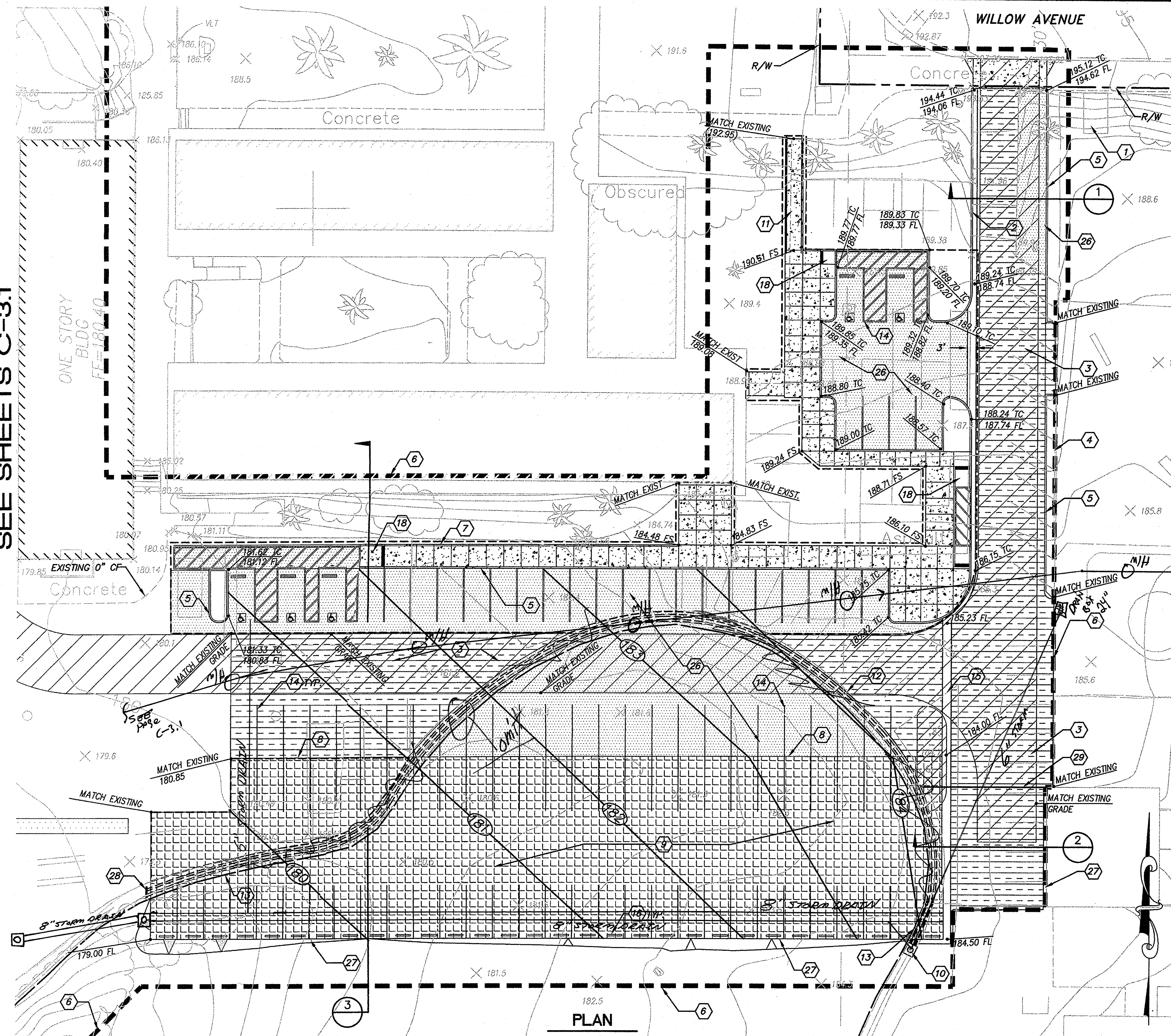
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SCOTT GROTH
C-28609
4/30/2007
STATE OF CALIFORNIA

DEMOLITION PLAN

C-2.0

SEE SHEETS C-3.1



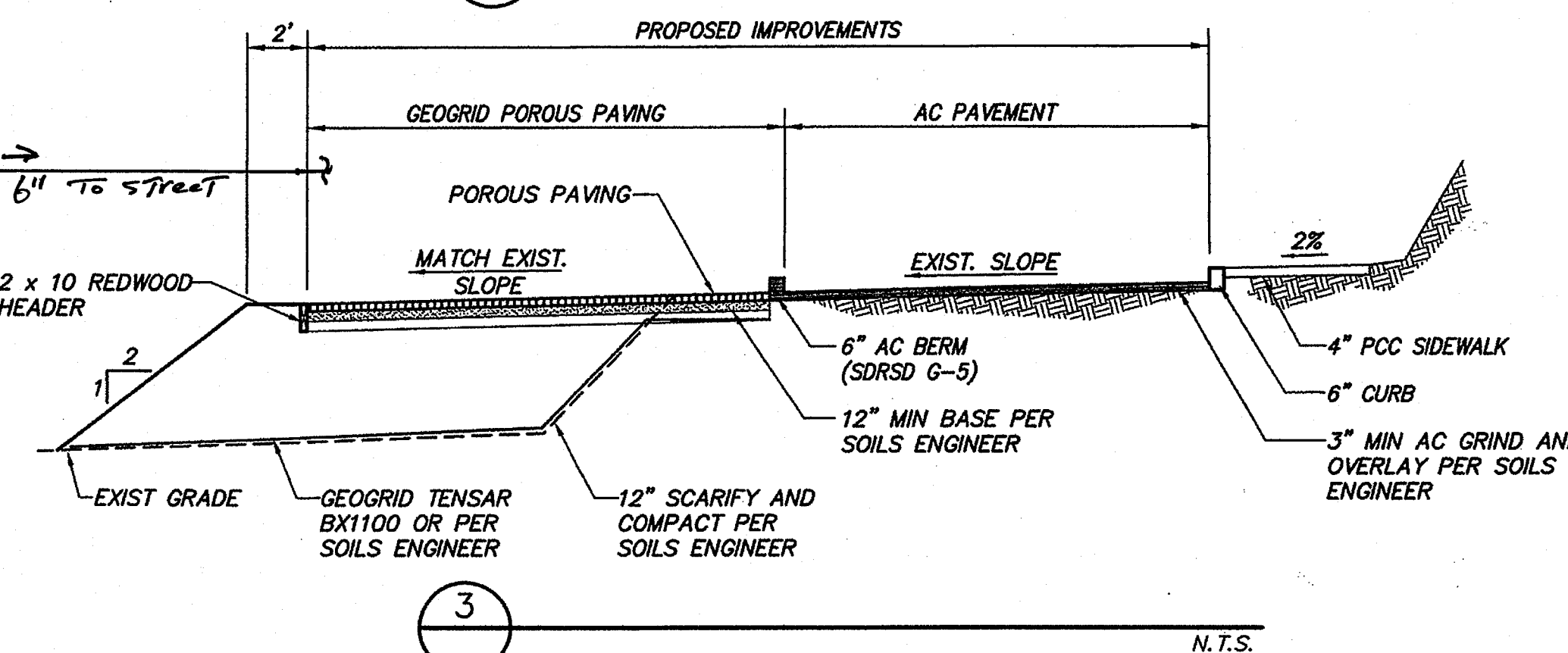
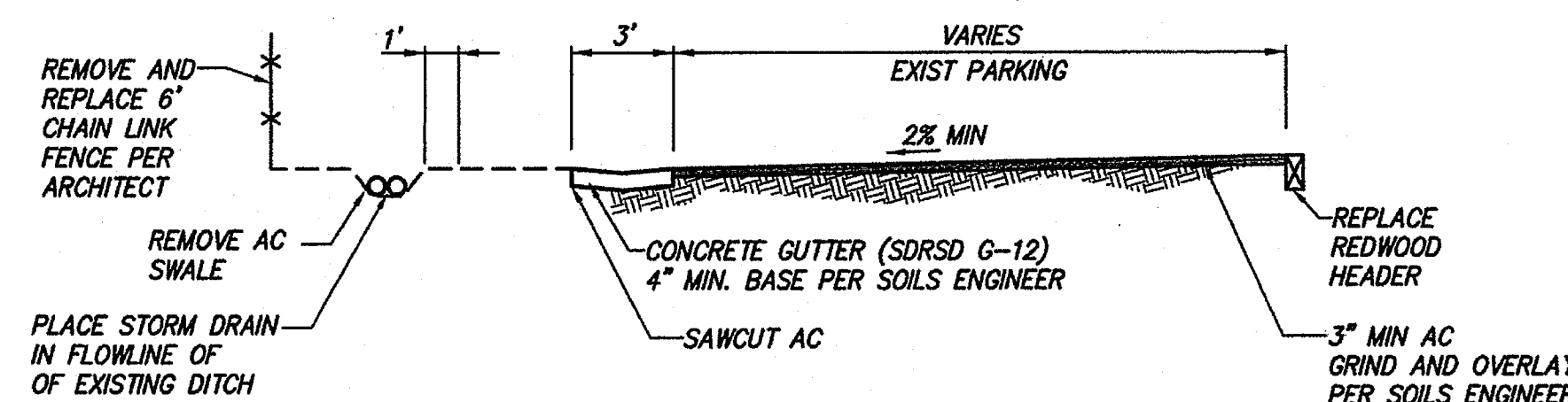
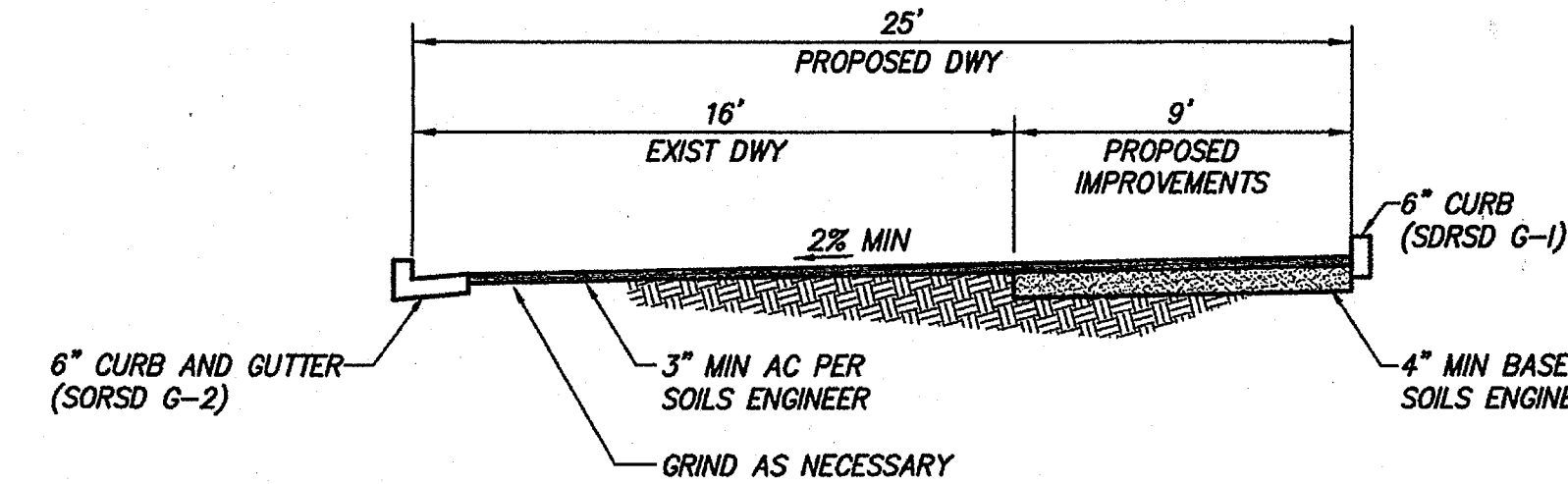
LEGEND

- FINISH FLOOR ELEVATION
- SIDEWALK ENTRY ELEVATIONS @ ALL EXTERIOR DOORWAY ENTRANCE/EXIT MATCH BUILDING FINISH FLOOR ELEVATION MINUS 0.02 FOOT (1/4-INCH)
- FIRE LANE
- ASPHALT PAVING
- NEW BUILDING
- GRIND AND OVERLAY
- POROUS AC

NOTE:

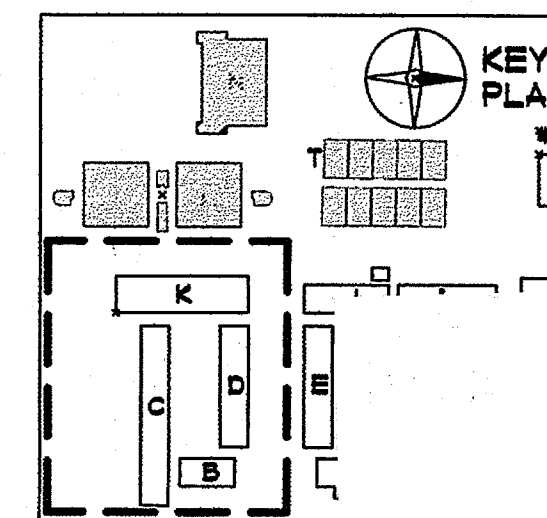
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- CONTRACTOR TO ADJUST ALL EXISTING GATE VALVES, CLEANOUTS, MANHOLES AND OTHER APPURTENANCES TO GRADE.
- ALL UTILITIES NOT SPECIFICALLY DESIGNATED TO BE ABANDONED SHALL BE 'PROTECTED IN PLACE' AND PROVIDE UNINTERRUPTED SERVICE THROUGHOUT CONSTRUCTION.

NOTE:
REFER TO ARCHITECTURAL PLANS FOR MORE DETAILED CONSTRUCTION INFORMATION OF SURFACE IMPROVEMENTS:
(HARDCOURT, STAIRS, RAMPS, HANDRAILING, ETC.)
SEE LANDSCAPE DRAWINGS



CONSTRUCTION NOTES:

- PROTECT CONCRETE STAIRS
- 6" CURB & GUTTER (SDRSD G-2)
- 3" MIN AC GRIND AND OVERLAY PER SOILS ENGINEER
- PROTECT EXISTING FENCE
- 6" CURB (SDRSD G-1)
- LIMIT OF WORK
- 4" PCC SIDEWALK (SDRSD G-7) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS
- 6" AC BERM (SDRSD G-5)
- CONSTRUCT 6" POROUS AC ON 12" BASE (PARKING)
- TYPE F CATCH BASIN (SDRSD D-7)
- FOR HANDRAILING AND RAMP SEE ARCHITECTURAL DRAWINGS
- 11-8" PVC PIPES (SCH 40) TYPE C ROCK (SDRSD S-4)
- LANDFILL LIMIT
- FOR STRIPING AND SIGNING, SEE ARCHITECTURAL DRAWINGS
- 3" CONCRETE CROSS GUTTER (SDRSD G-12)
- CONCRETE WHEEL STOPS, SEE ARCHITECTURAL DRAWINGS
- CONSTRUCT PEDESTRIAN RAMP PER ARCHITECTURAL DRAWINGS
- CONSTRUCT PCC DRIVEWAYS
- CONSTRUCT 3" AC OVER 4" BASE
- 2" X 10" REDWOOD HEADER
- CONSTRUCT STRAIGHT HEADWALL (SDRSD D-30)
- REMOVE AND REPLACE ROOF DRAIN AS NECESSARY



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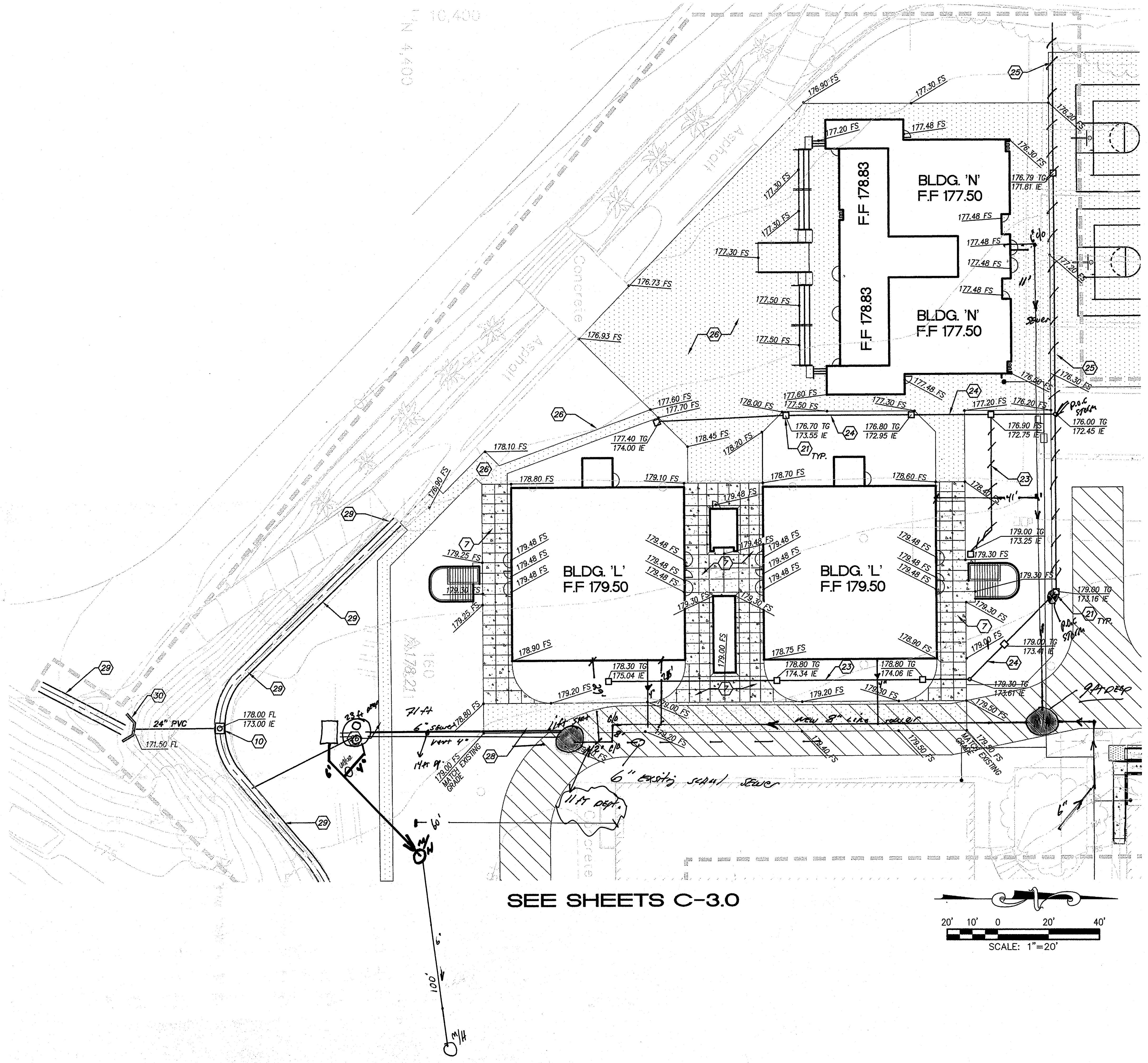
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C-28609
4/30/2007
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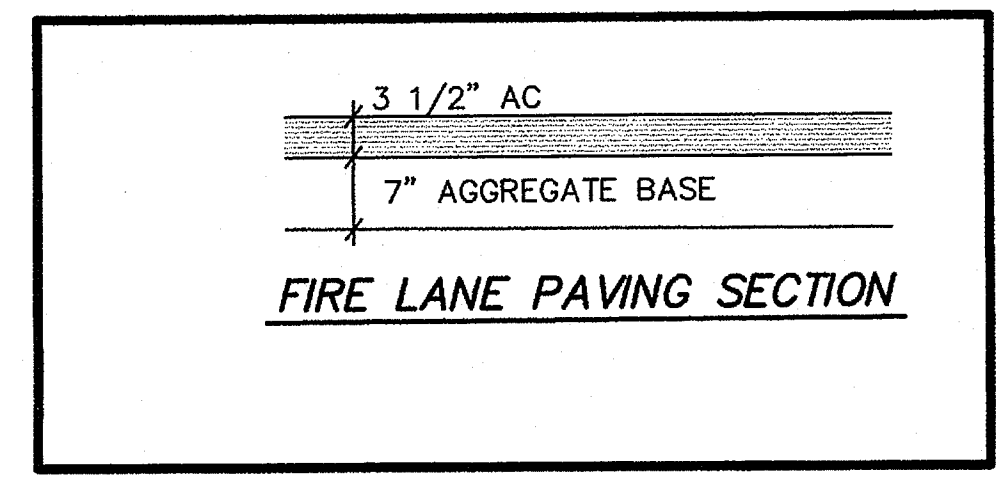
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GRADING AND DRAINAGE PLAN



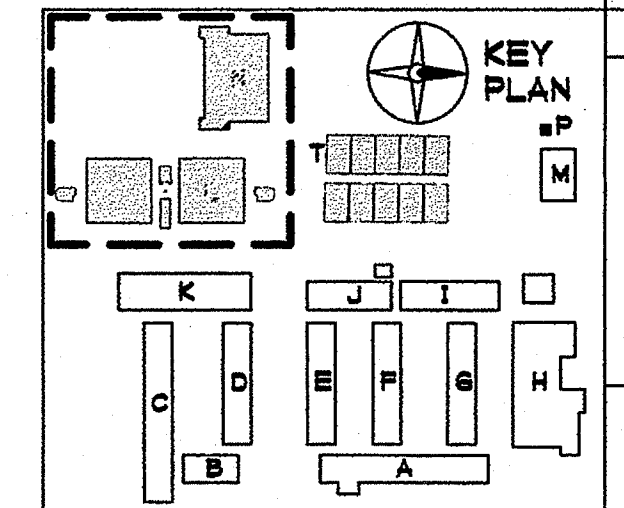
- CONSTRUCTION NOTES:**
- 7 4" PCC SIDEWALK (SDRSD 8-7) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS
 - 10 TYPE F CATCH BASIN (SDRSD D-7)
 - 21 BROOKS MODEL 1212 CATCH BASIN SEE DETAIL 2 ON SHEET C-5.2
 - 23 6" PVC (SDR 35) PIPE W/ROCK ENCASEMENT TYPE C
 - 24 8" PVC (SDR 35) PIPE W/ROCK ENCASEMENT TYPE C
 - 25 12" PVC (SDR 35) PIPE W/ROCK ENCASEMENT TYPE C
 - 26 CONSTRUCT 3" AC OVER 4" BASE (HARDCOURT)
 - 28 CONSTRUCT 3 1/2" AC OVER 7" BASE (FIRE LANE)
 - 29 CONCRETE BROWDITCH (SDRSD D-75)
 - 30 WING TYPE HEADWALL (SDRSD D-34, AND D-35)

- LEGEND**
- FINISH FLOOR ELEVATION
 - SIDEWALK ENTRY ELEVATIONS @ ALL EXTERIOR DOORWAY ENTRANCE/EXIT MATCH BUILDING FINISH FLOOR ELEVATION MINUS 0.02 FOOT (1/4" - INCH)
 - FIRE LANE
 - ASPHALT PAVING
 - NEW BUILDING

NOTES:
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ALL UTILITIES NOT SPECIFICALLY DESIGNATED TO BE ABANDONED SHALL BE "PROTECTED IN PLACE" AND PROVIDE UNINTERRUPTED SERVICE THROUGHOUT CONSTRUCTION.



- NOTE:**
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 - CONTRACTOR TO ADJUST ALL EXISTING GATE VALVES, CLEANOUTS, MANHOLES AND OTHER APPURTENANCES TO GRADE.
 - ALL UTILITIES NOT SPECIFICALLY DESIGNATED TO BE ABANDONED SHALL BE "PROTECTED IN PLACE" AND PROVIDE UNINTERRUPTED SERVICE THROUGHOUT CONSTRUCTION.
 - CONTRACTOR TO PROVIDE GRADE BEAM WITH MINIMUM 12-INCH EMBEDMENT BELOW FINISH GRADE SURFACE AS SHOWN ON CIVIL DRAWINGS. SEE STRUCTURAL DRAWINGS.



JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054

GROTH ARCHITECTS, INC.
3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291

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AC PB FS SS

MAR 28 2005

JOHN SCOTT GROTH

C-26609

4/30/2007

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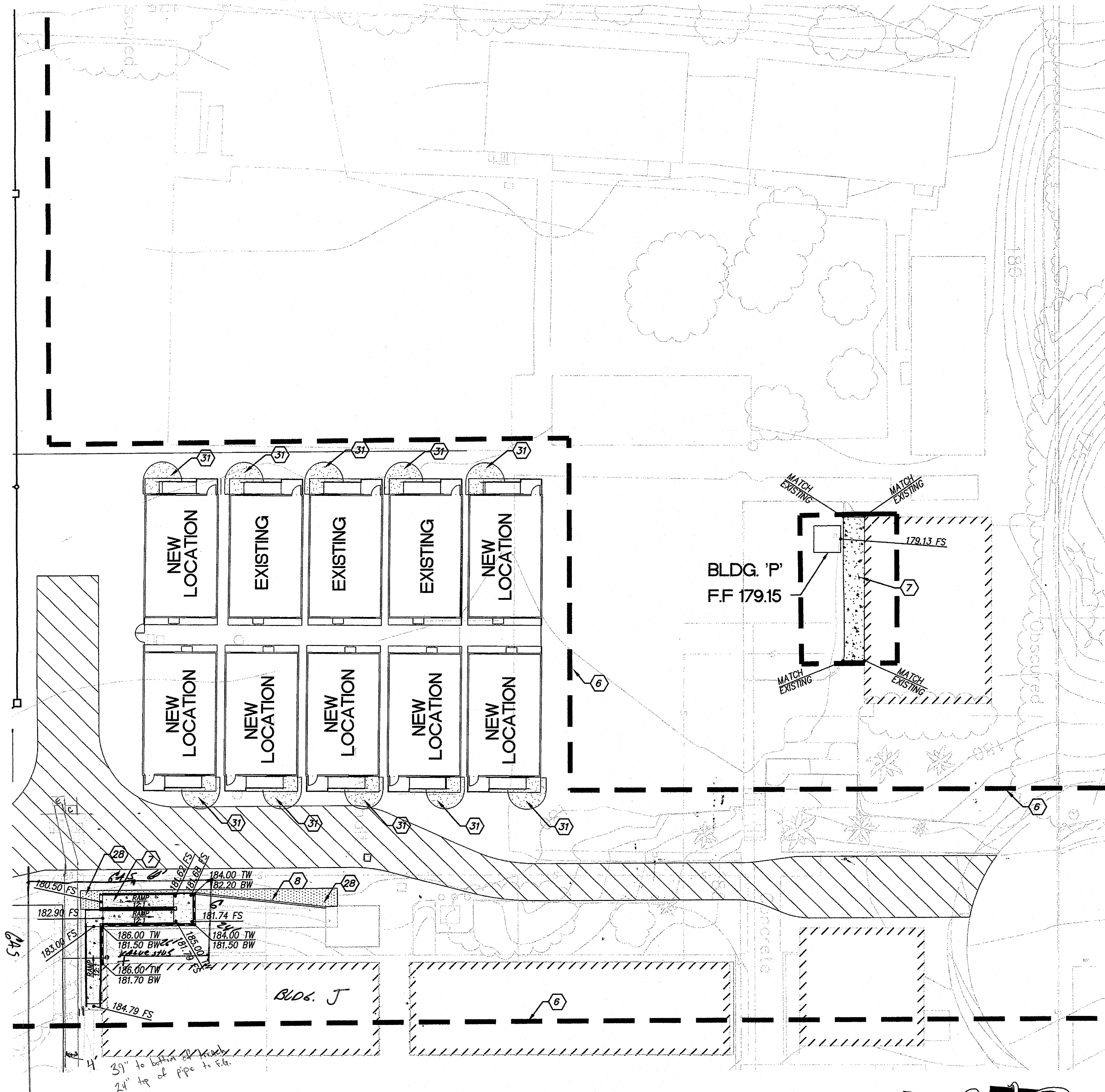
STATE OF CALIFORNIA

GRADING AND DRAINAGE PLAN

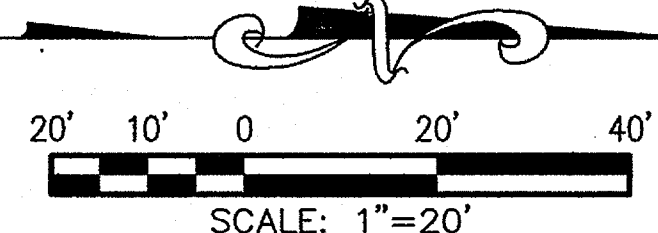
Revised sewer 6/1/06

C-3.1

SEE SHEETS C-3.1



NOTE:
SEE STRUCTURAL DRAWING FOR RETAINING WALLS



CONSTRUCTION NOTES:

- 6 LIMIT OF WORK
- 7 4" PCC SIDEWALK (SDRSD G-7) SEE ARCHITECTURAL DRAWING FOR ADDITIONAL NOTES AND DETAIL
- 8 6" AC BERM (SDRSD G-5)
- 28 CONSTRUCT 3 1/2" OVER 7" BASE (FIRE LANE)
- 31 ASPHALT RAMP SEE ARCHITECTURAL DRAWINGS

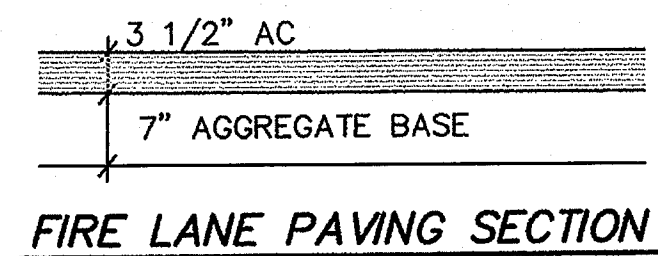
LEGEND

177.50 FINISH FLOOR ELEVATION

FIRE LANE

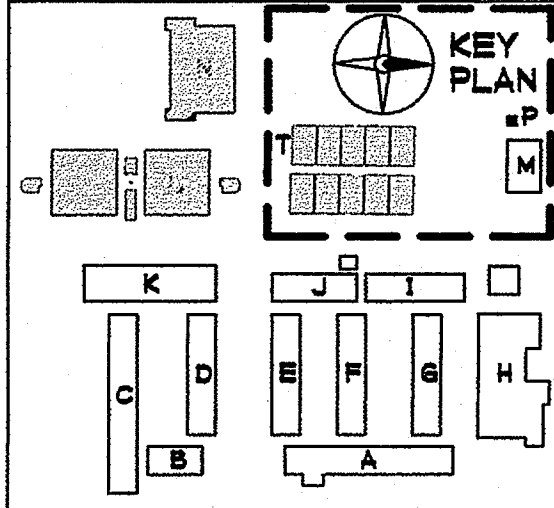
NEW BUILDING

NOTES:
REFER TO ARCHITECTURAL PLANS FOR MORE DETAILED CONSTRUCTION INFORMATION OF SURFACE IMPROVEMENTS: (STAIRS, RAMPS, ETC.)
ALL UTILITIES NOT SPECIFICALLY DESIGNATED TO BE ABANDONED SHALL BE "PROTECTED IN PLACE" AND PROVIDE UNINTERRUPTED SERVICE THROUGHOUT CONSTRUCTION.



NOTE:

- CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. NOTIFY ARCHITECT OF ANY DISCREPANCY.
- CONTRACTOR TO ADJUST ALL EXISTING GATE VALVES, CLEANOUTS, MANHOLES AND OTHER APPURTENANCES TO GRADE.
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- CONTRACTOR TO PROVIDE GRADE BEAM WITH MINIMUM 12-INCH EMBEDMENT BELOW FINISH GRADE SURFACE AS SHOWN ON CIVIL DRAWINGS. SEE STRUCTURAL DRAWINGS.



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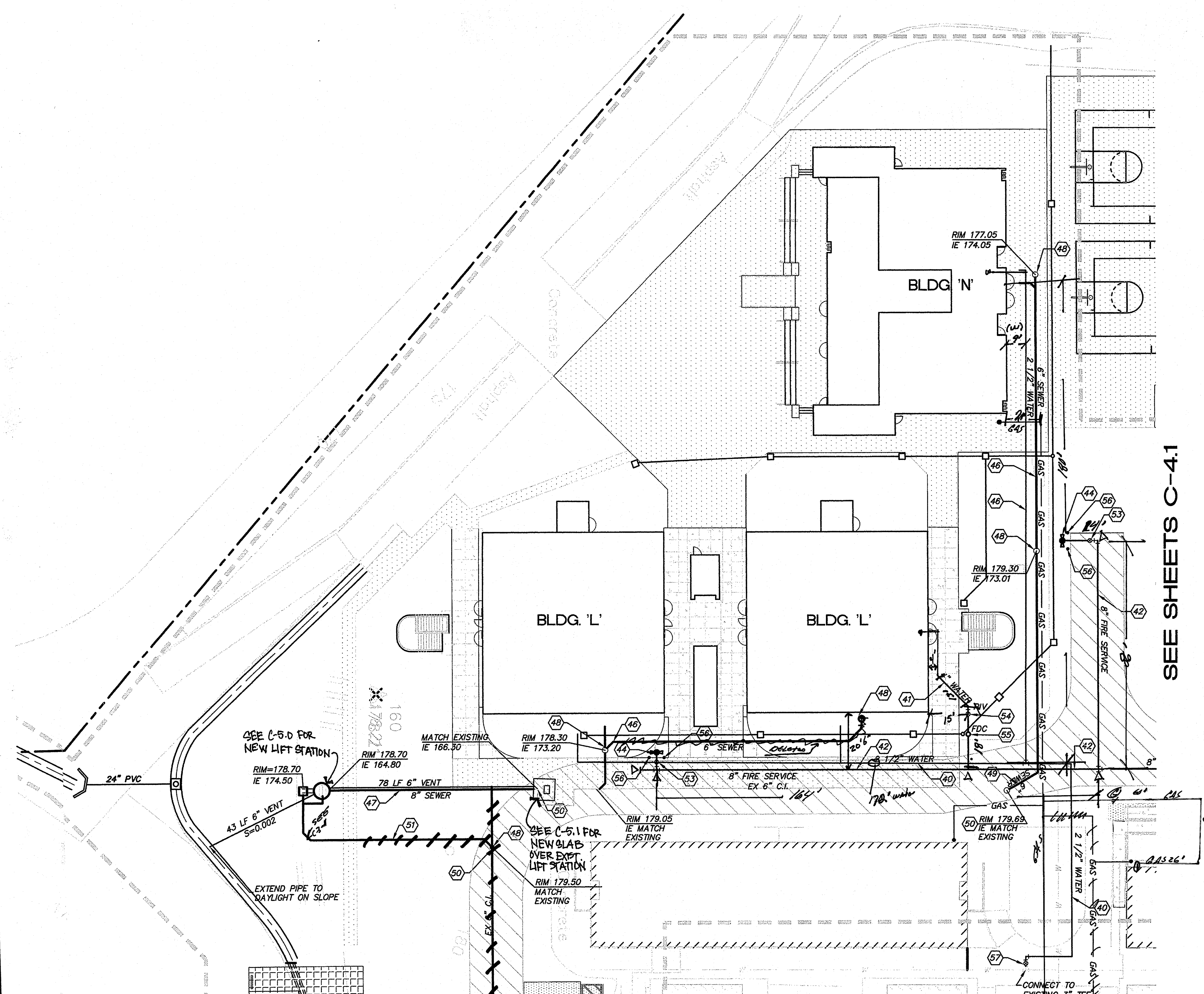
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C-28609
4/30/2007
TERMINAL
OCEANSIDE, CALIFORNIA

SHEET TITLE
GRADING &
DRAINAGE PLAN

C-3.2

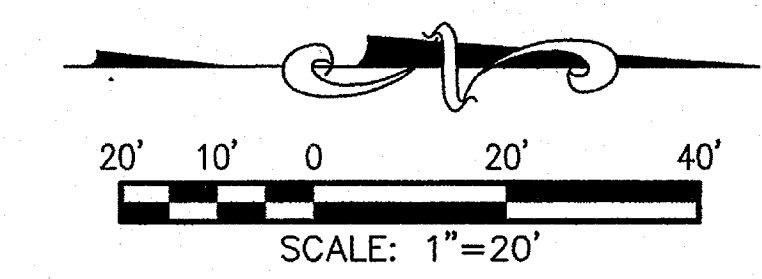
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OCEANSIDE, CALIFORNIA 92054



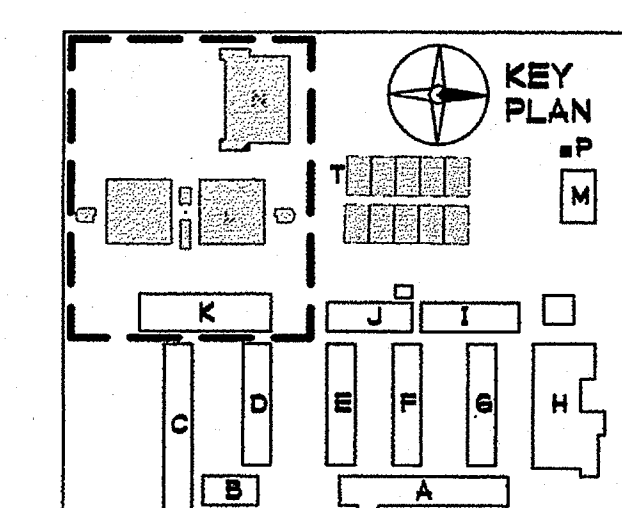
- CONSTRUCTION NOTES:**
- 40 2 1/2" COPPER WATER LINE
 - 41 4" PVC C-900 WATER
 - 42 8" PVC C-900 FIRE LINE
 - 44 FIRE HYDRANT ASSEMBLY
 - 46 6" PVC SEWER LINE
 - 47 8" PVC SEWER LINE
 - 48 CLEANOUT
 - 49 48" DIAMETER MANHOLE
 - 50 CONNECT TO EXISTING
 - 51 4" FORCE MAIN
 - 53 6" GATE VALVE
 - 54 PIV VALVE
 - 55 FDC
 - 56 PROTECTION POST (SDRS W-16)
 - 57 3" GATE VALVE
 - △ THRUST BLOCKS OSD W-4

SEE SHEETS C-4.1

NOTE:
CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES TO BE JOINED. SEE SHEET C5.0 AND C5.1 FOR LIFT STATION RELOCATION

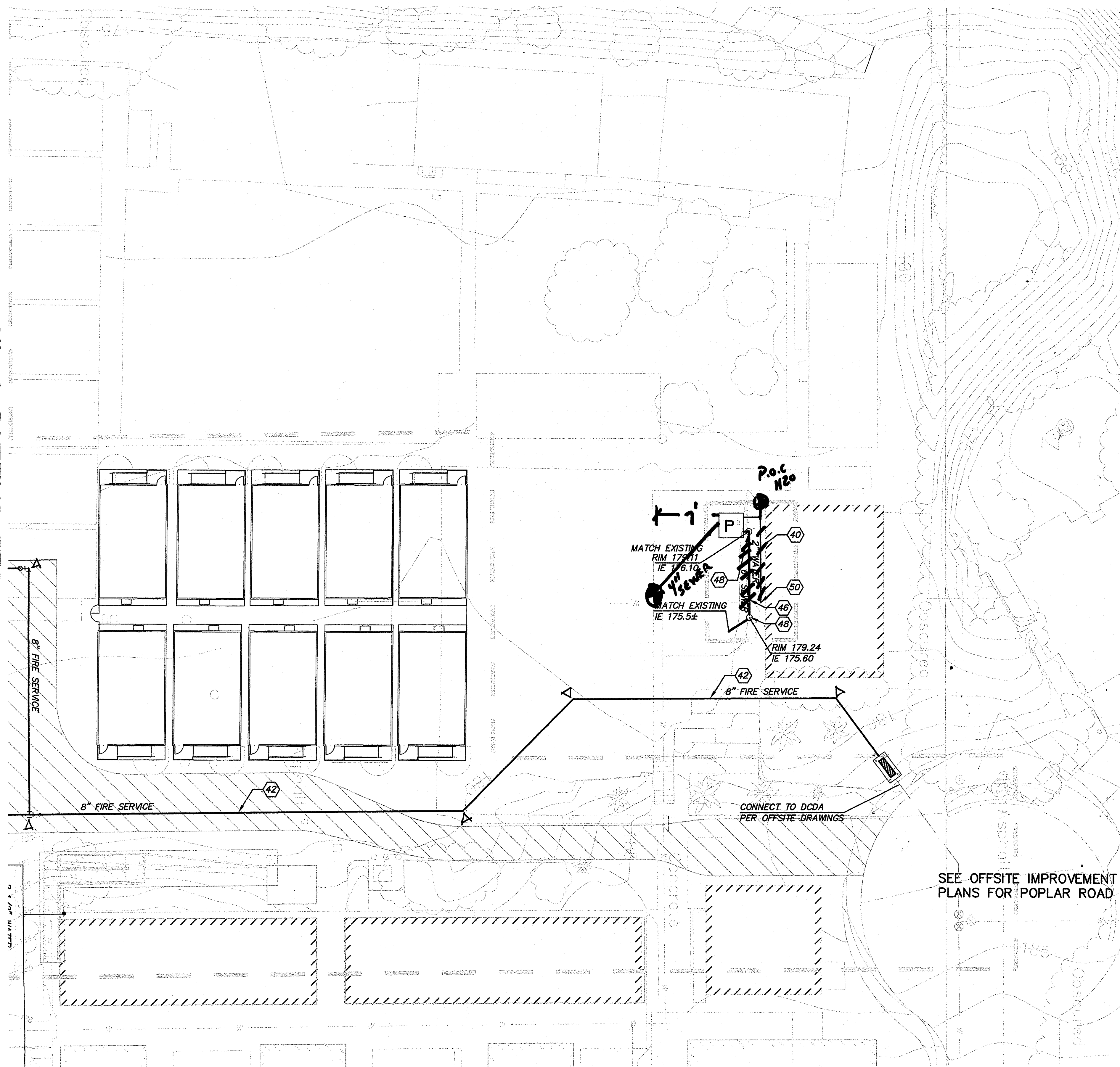


- NOTE:**
- CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. NOTIFY ARCHITECT OF ANY DISCREPANCY.
 - CONTRACTOR TO ADJUST ALL EXISTING GATE VALVES, CLEANOUTS, MANHOLES AND OTHER APPURTENANCES TO GRADE.
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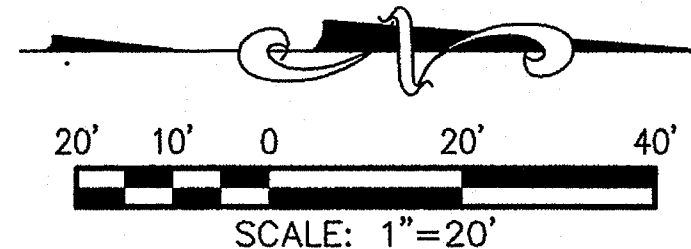


GROTH ARCHITECTS, INC. 823 ACACIA STREET OCEANSIDE, CA 92054 OCEANSIDE UNIFIED S.D.		JEFFERSON MS NEW CONSTRUCTION 823 ACACIA STREET OCEANSIDE, CA 92054 OCEANSIDE UNIFIED S.D.	3355 MISSION AVE. OCEANSIDE, CALIFORNIA 92054 PHONE 760-754-8191 FAX 760-754-8291
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SHEET TITLE SEWER AND WATER PLAN		C-4.0	

SEE SHEETS C-4.0



SEE OFFSITE IMPROVEMENT
PLANS FOR POPLAR ROAD

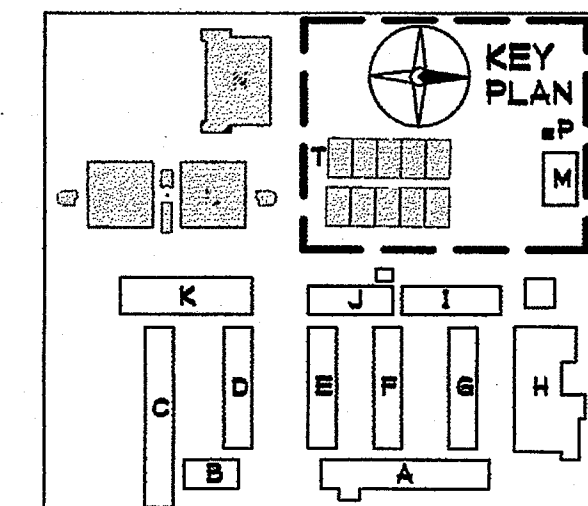


CONSTRUCTION NOTES:

- 40 2" COPPER WATER LINE
- 42 8" PVC C-900
- 48 4" PVC SEWER LINE
- 48 CLEANOUT
- 50 CONNECT TO EXIST
- △ THRUST BLOCKS OSD W-4

- NOTE:
CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL
AND VERTICAL LOCATIONS OF EXISTING FACILITIES
TO BE JOINED
- NOTE:
CONTRACTOR TO OBTAIN ENCROACHMENT PERMIT
FROM THE CITY OF OCEANSIDE FOR ALL WORK WITHIN
THE PUBLIC STREET AND PAY ALL CITY FEES.
- NOTE:
ALL UTILITIES NOT SPECIFICALLY DESIGNATED TO BE
ABANDONED SHALL BE 'PROTECTED IN PLACE' AND
PROVIDE UNINTERRUPTED SERVICE THROUGHOUT
CONSTRUCTION.

- NOTE:
- CONTRACTOR TO POTHOLE AND VERIFY EXISTING
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REGISTERED ARCHITECT
JOHN SCOTT GROTH
C-28609
4/30/2007
RENEWED
STATE OF CALIFORNIA

KEY PLAN
SEWER AND
WATER PLAN

C-4.1

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758-000

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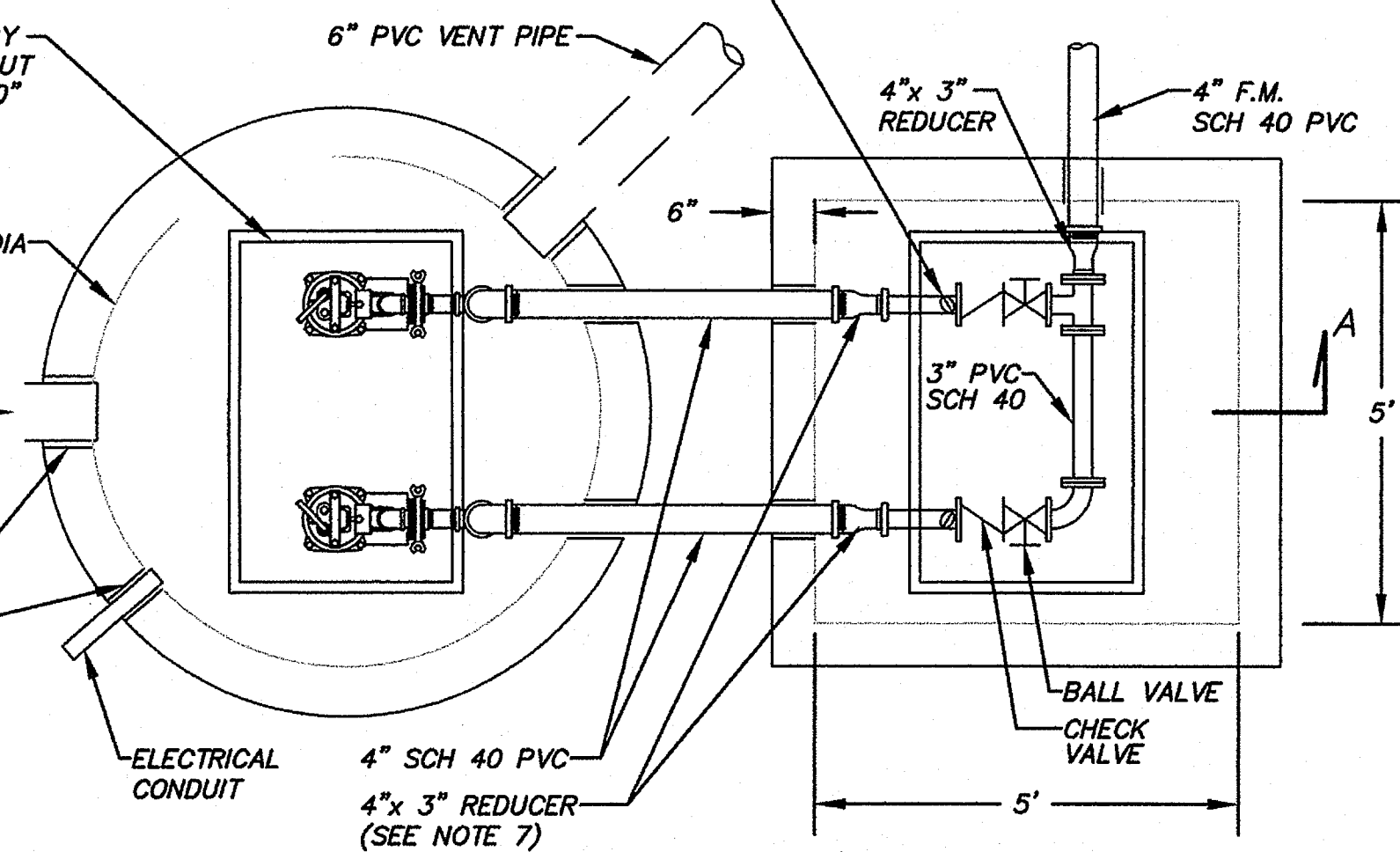
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OCEANSIDE, CALIFORNIA 92054

FLANGE INSERT PRESSURE SENSOR FITTED WITH A PRESSURE GAUGE/PRESSURE SWITCH WHICH SHUTS OFF THE PUMP WHEN ZERO PRESSURE IS SENSED. PRESSURE SENSORS SHALL BE RED VALVE SERIES 40 OR APPROVED EQUAL AND SHALL BE ISOLATED AND PROTECTED FROM THE WASTEWATER. GAUGES SHALL BE ASHROFT STAINLESS STEEL CASES WITH RANGE FROM 0-25 PSI. GAUGES SHALL BE MOUNTED TO BE VISIBLE FROM THE TOP. PRESSURE GAUGES SHALL BE ISOLATED WITH A NON-CORROSIVE COCK.

8" PVC SDR-35 PER SECTION 207-17 OF THE COUNTY STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION WITH LOCAL AMENDMENTS WITH ELASTOMERIC GASKET OF POLYURETHANE OR SYNTHETIC RUBBER WITH EQUAL OR GREATER RESISTANCE TO SOLVENCY, CHEMICAL OR BIOLOGICAL ATTACHMENT.

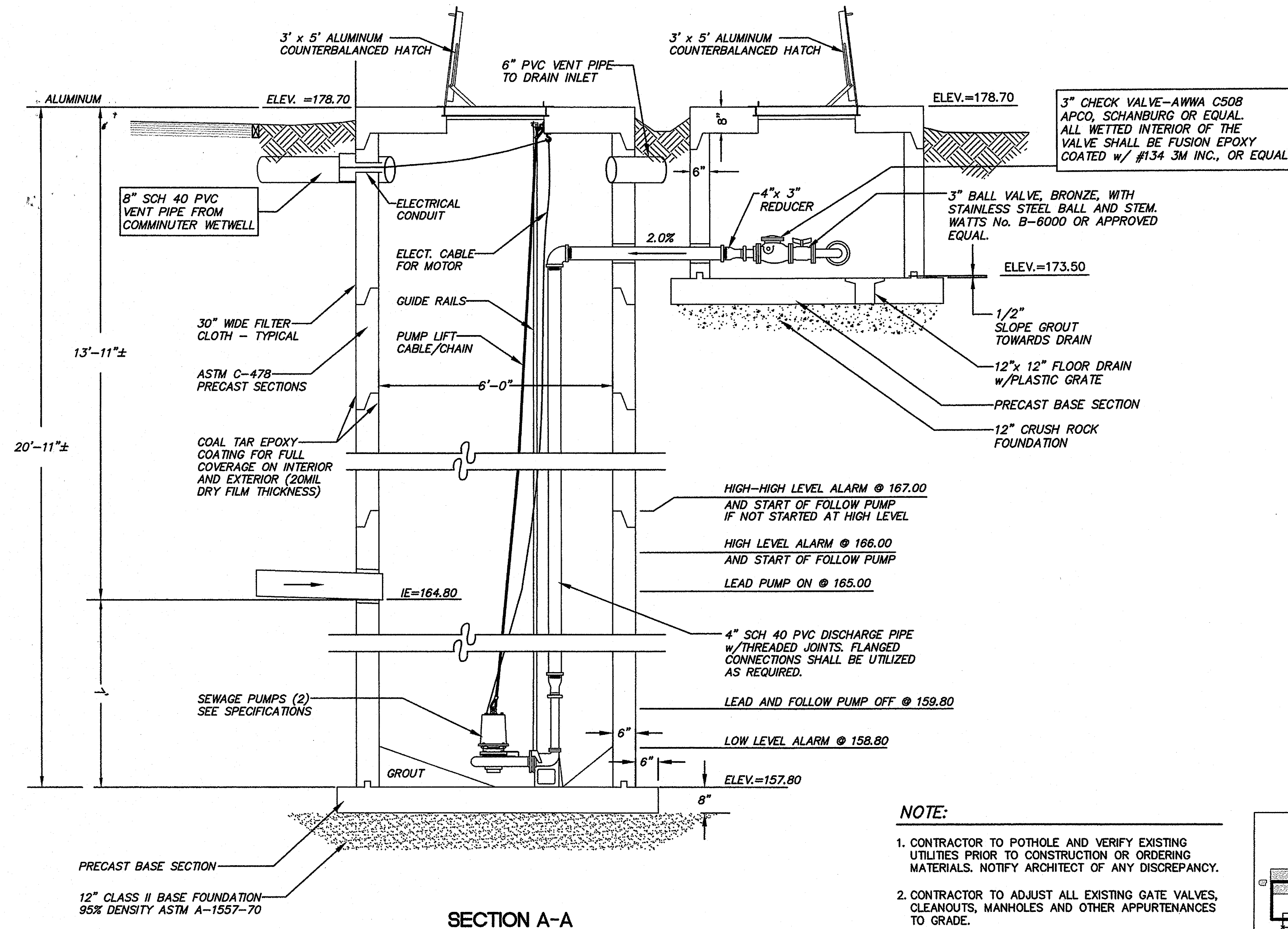
ALL WALL PENETRATIONS SHALL BE MADE UTILIZING A LINK RUBBER SEAL "LINK SEAL" AS MANUFACTURED BY THUNDERLINE CORPORATION WAYNE, MICHIGAN, 48184, OR EQUAL. ALL BOLTS AND WASHERS TO BE TYPE 316 STAINLESS STEEL (TYP.)

OPENING TO BE SIZED BY PUMP MANUFACTURER BUT NOT LESS THAN 48"x 30"



PLAN

N.T.S.



SECTION A-A

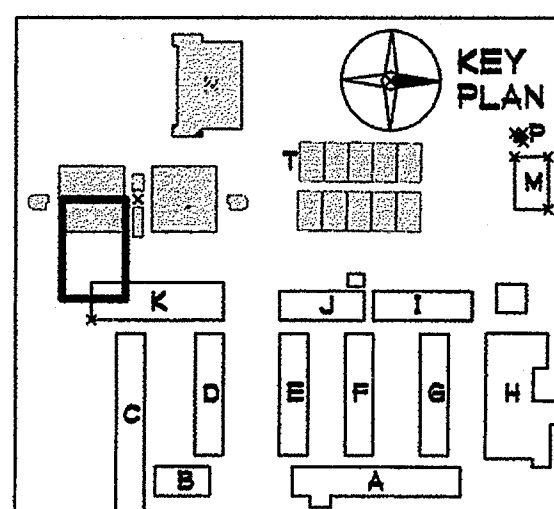
N.T.S.

NOTES:

1. CONCRETE PERIMETER SHALL BE COATED WITH 14 MILS OF ASPHALTIC BASE COATING PRIOR TO ALUMINUM HATCH INSTALLATION.
2. UNDERGROUND PRESSURE PIPING SHALL HAVE THRUST BLOCKS AT BENDS OR APPROVED STAINLESS STEEL RETAINER GLANDS AT ALL M.J. CONNECTIONS.
3. SEE SPECIFICATIONS FOR SEWAGE PUMP AND CONTROL DETAILS.
4. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR ALL ELECTRICAL WORK INCLUDING THE LOCATION AND MOUNTING OF REMOTE PANELS INSIDE NEW BUILDING.
5. ACCESS HATCHES FOR THE GRINDER VAULT, THE NEW PUMP STATION VAULT AND THE VALVE VAULT SHALL BE 1/4" ALUMINUM, H-20 WHEEL LOADING REINFORCED, WITH MAXIMUM DEFLECTION OF 1/150TH OF SPAN. SAFETY CHAIN SHALL BE PROVIDED. DOORS TO BE FITTED WITH HEAVY DUTY STAINLESS STEEL HINGES AND PINS AND PIVOT SO THE COVER DOES NOT PROTRUDE INTO CHANNEL FRAME. DOOR SHALL AUTOMATICALLY LOCK IN OPEN POSITION. DOOR SHALL BE EQUIPPED WITH A RECESSED, LOCKABLE STAINLESS STEEL HASP.
6. ALL PRESSURE PIPING VALVES, ETC. SHALL BE TESTED TO 150 PSI AND HOLD THIS PRESSURE FOR 4 HOURS. ALL LEAKS SHALL BE REPAIRED AND PIPING ETC SHALL BE RETESTED UNTIL 150 PSI IS MAINTAINED FOR 4 HOURS.
7. PVC PRESSURE PIPE MATERIALS AND INSTALLATION PER COUNTY STANDARDS FOR PUBLIC WORKS CONSTRUCTION SECTION 207-25.

NOTE:

1. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. NOTIFY ARCHITECT OF ANY DISCREPANCY.
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823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

GROTH ARCHITECTS, INC.
3355 MISSION AVE.
OCEANSIDE, CALIFORNIA 92054
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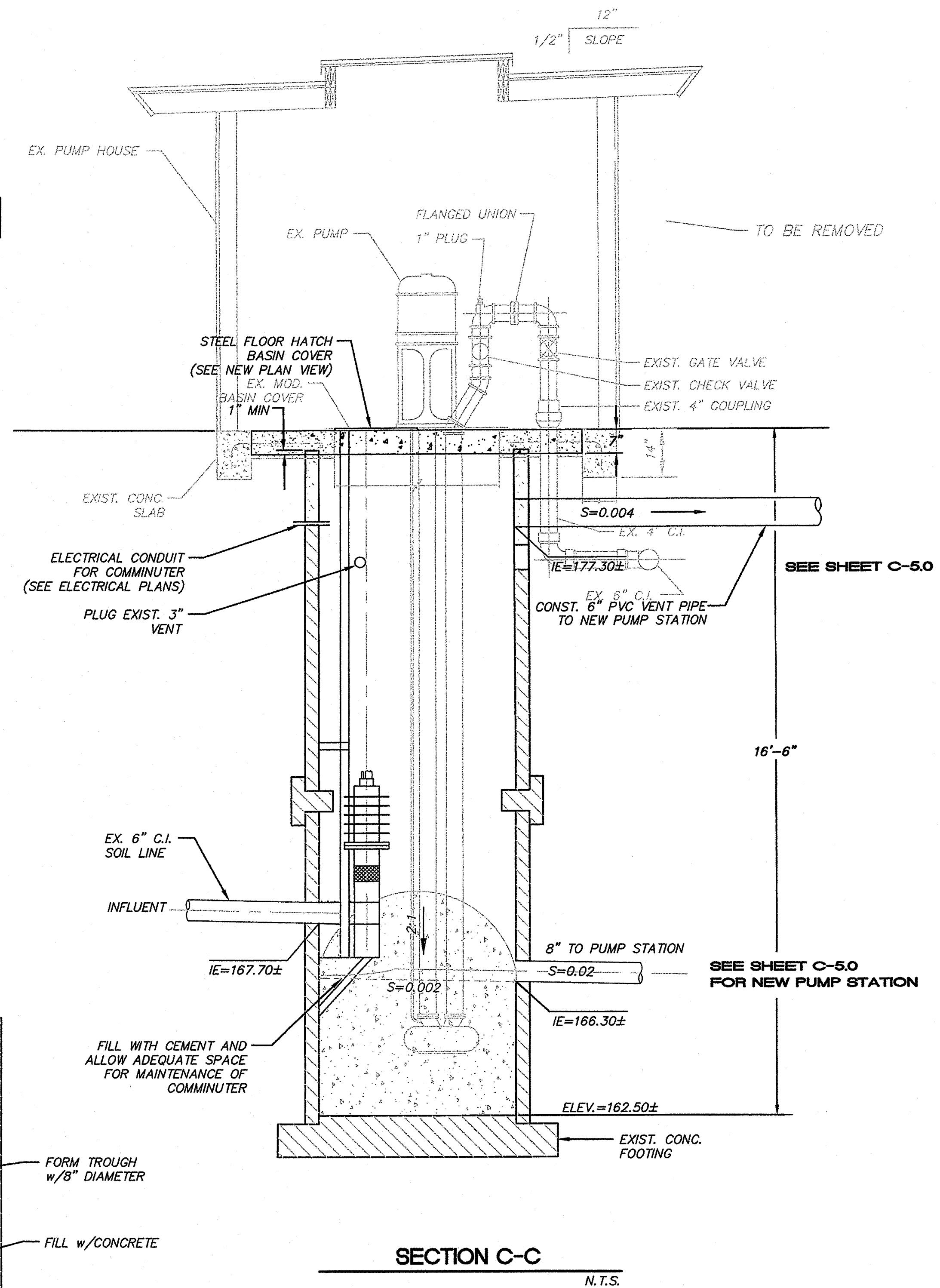
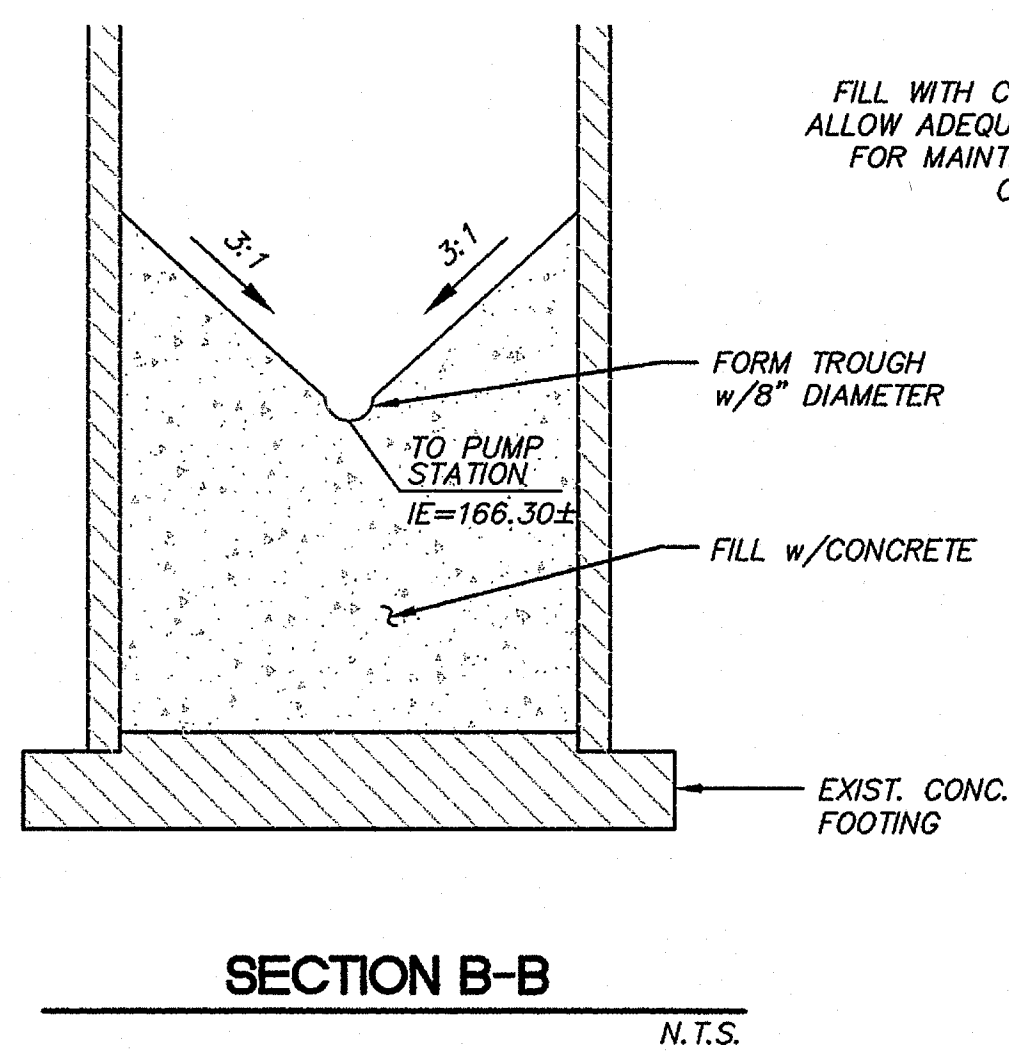
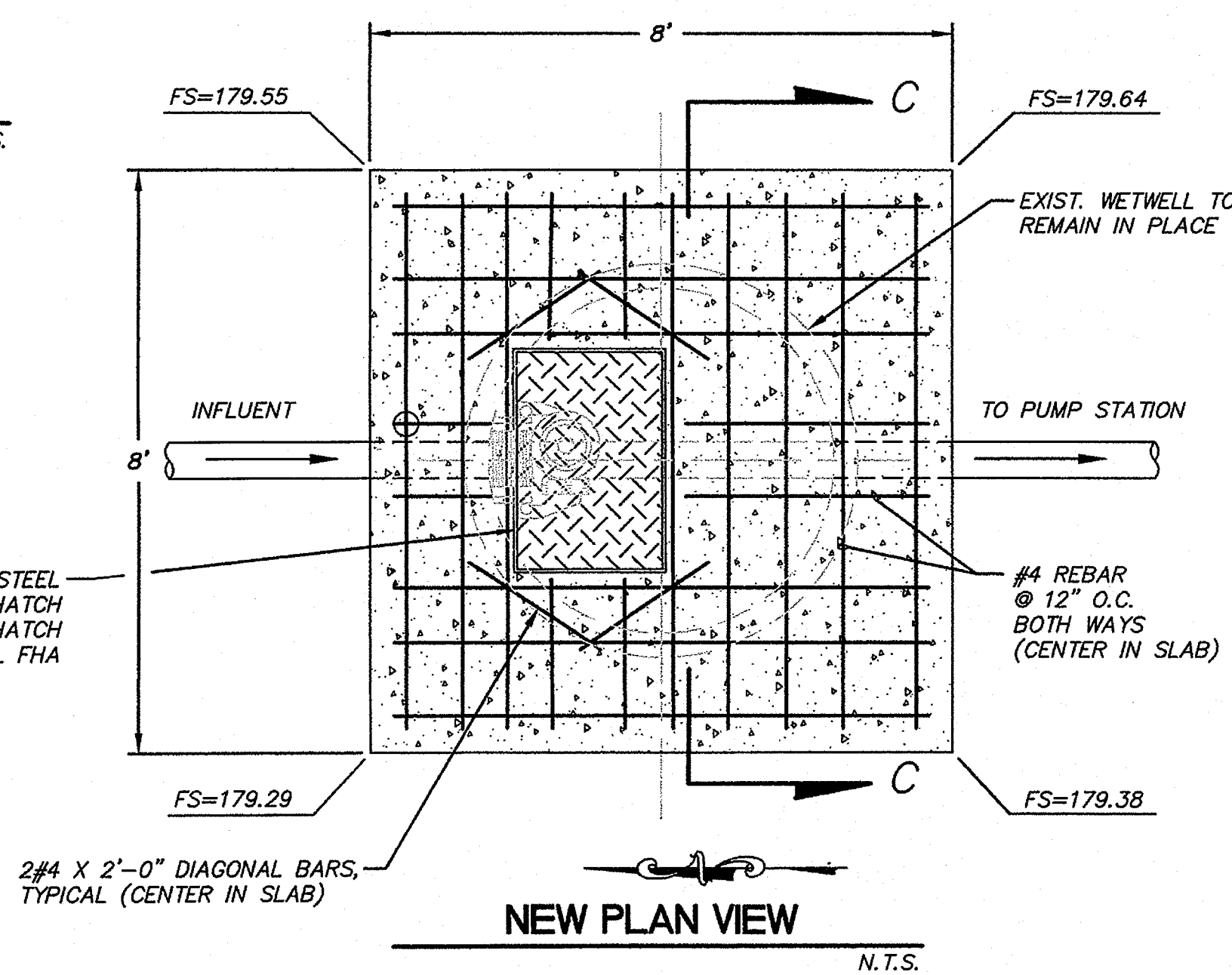
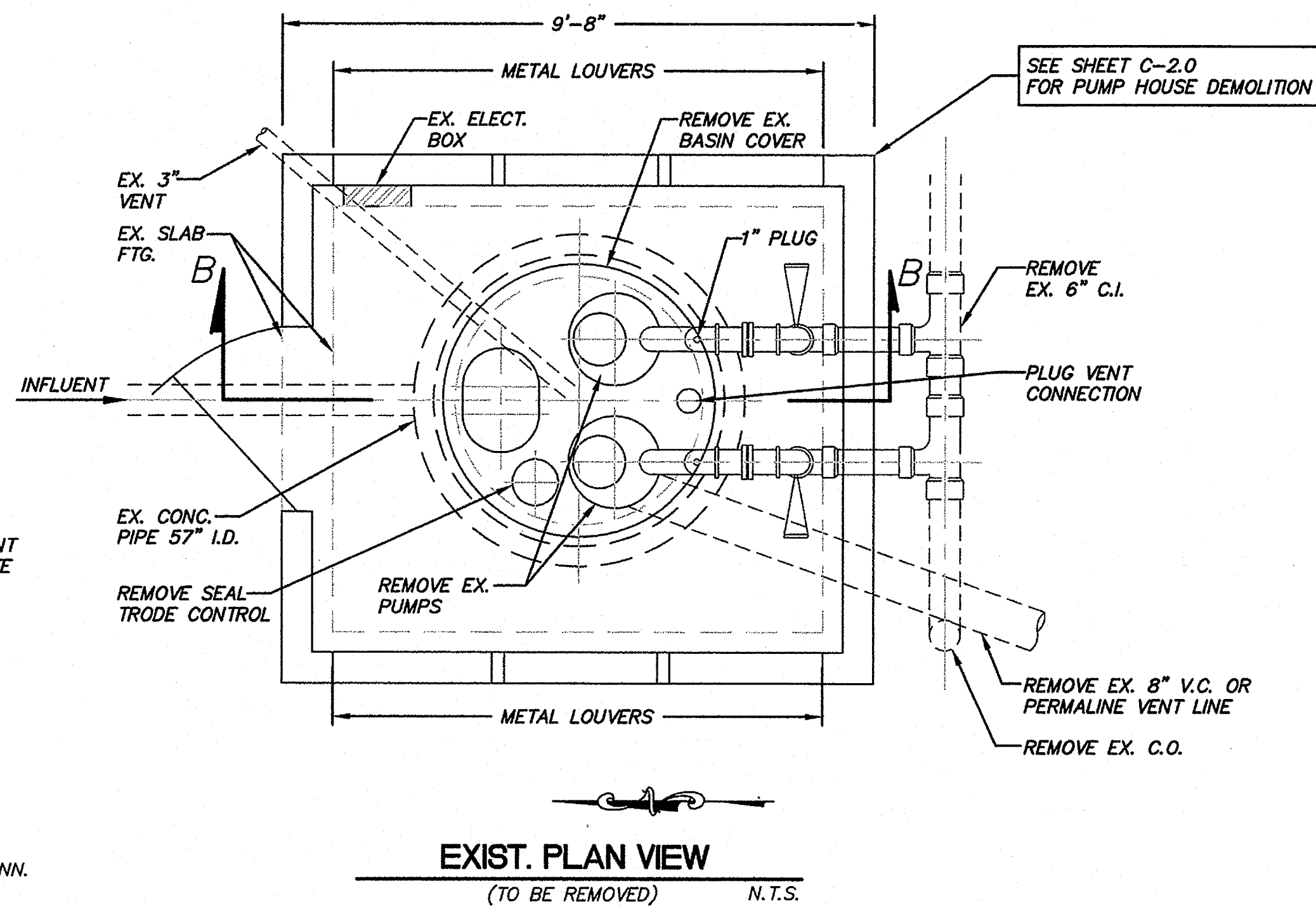
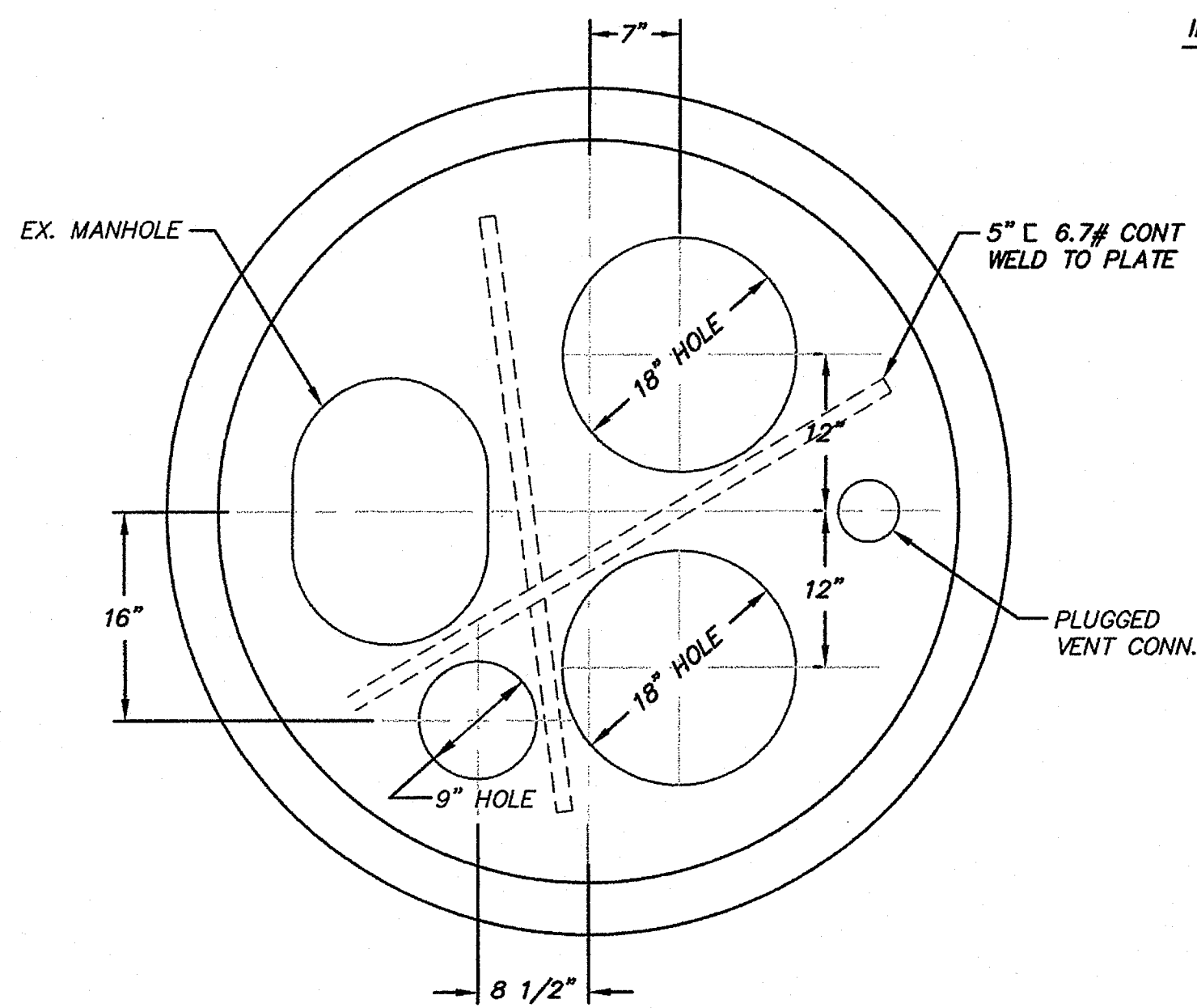
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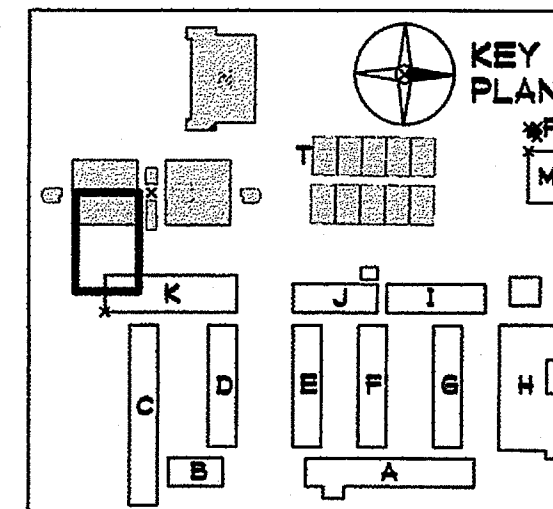
SHEET TITLE
LIFT STATION
DETAILS

C-5.0

NOTE:
SEE ELECTRICAL PLANS FOR RELOCATION AND/OR INSTALLATION
OF EXISTING/NEW ELECTRICAL EQUIPMENT AND WORK.



- NOTE:
1. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. NOTIFY ARCHITECT OF ANY DISCREPANCY.
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CMD

760-754-8191

760-754-8291

PHONE

FAX

SUITE 234

3355 MISSION AVE.

OCEANSIDE, CALIFORNIA 92054

GROTH ARCHITECTS, INC.

JEFFERSON MS NEW CONSTRUCTION

823 ACACIA STREET

OCEANSIDE, CA 92054

OCEANSIDE UNIFIED S.D.

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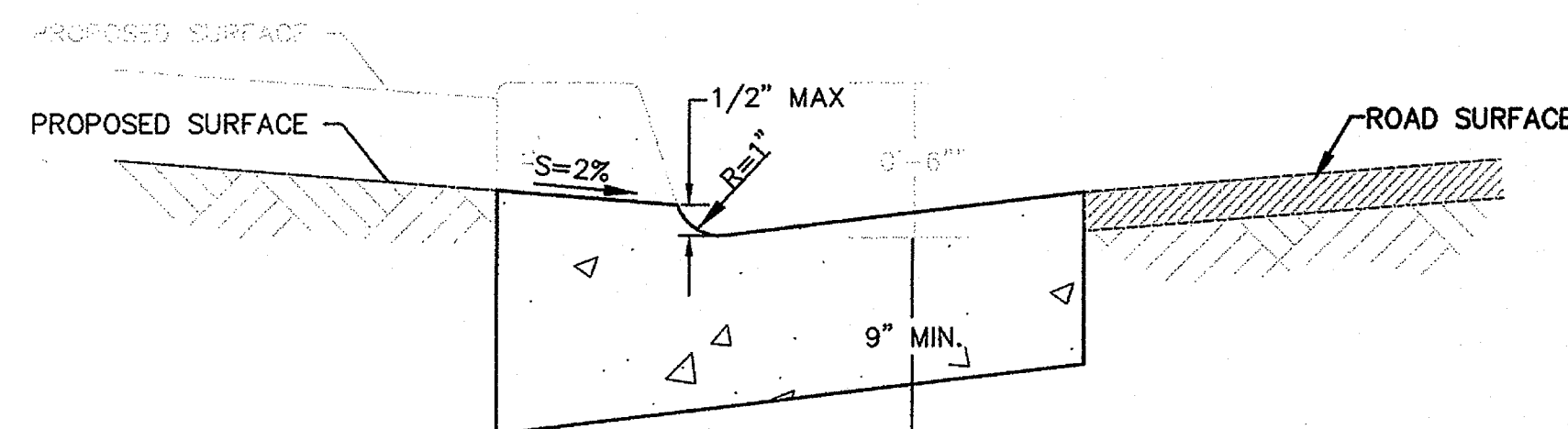
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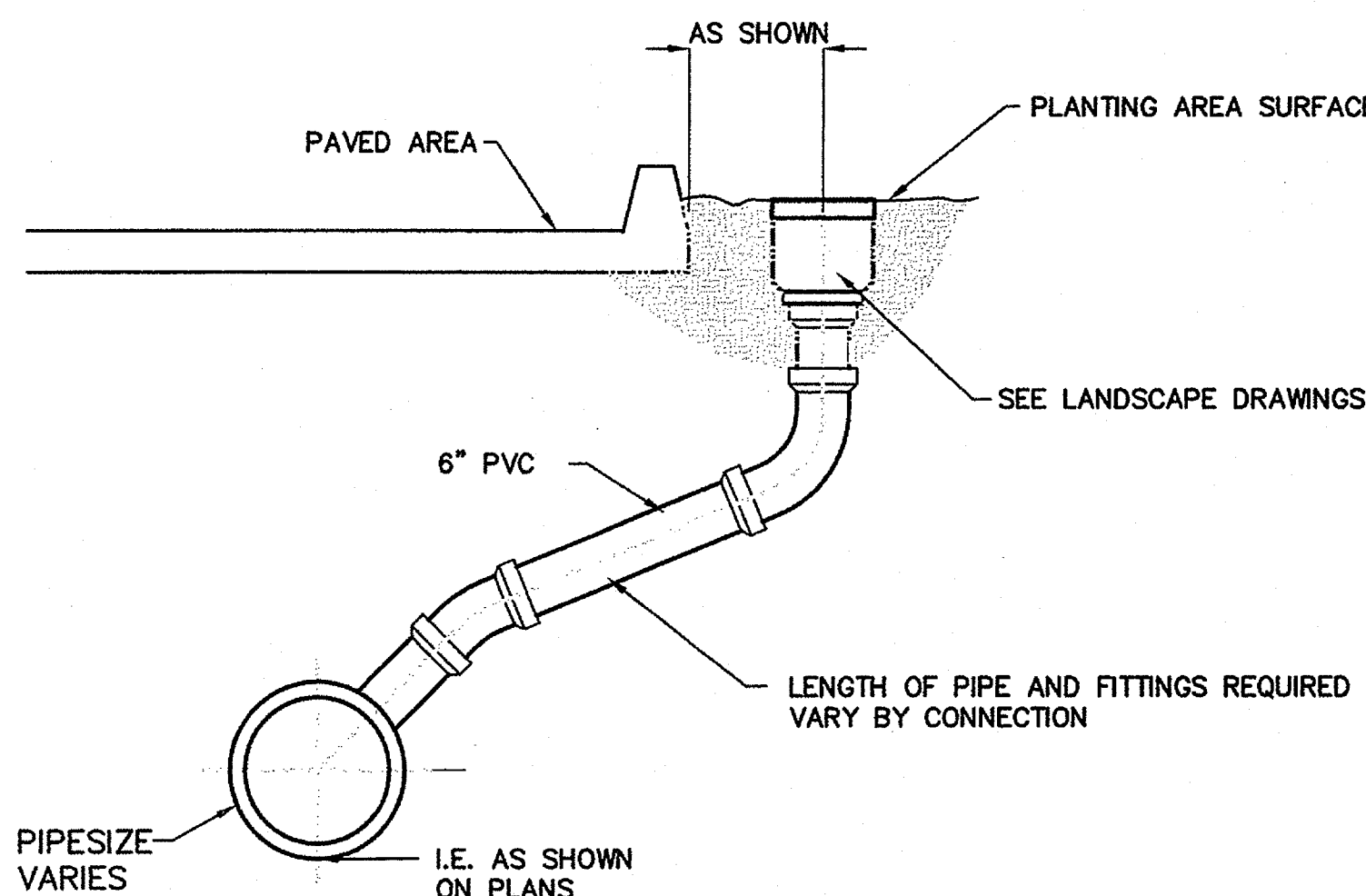
LIFT STATION

DETAILS

C-5.1



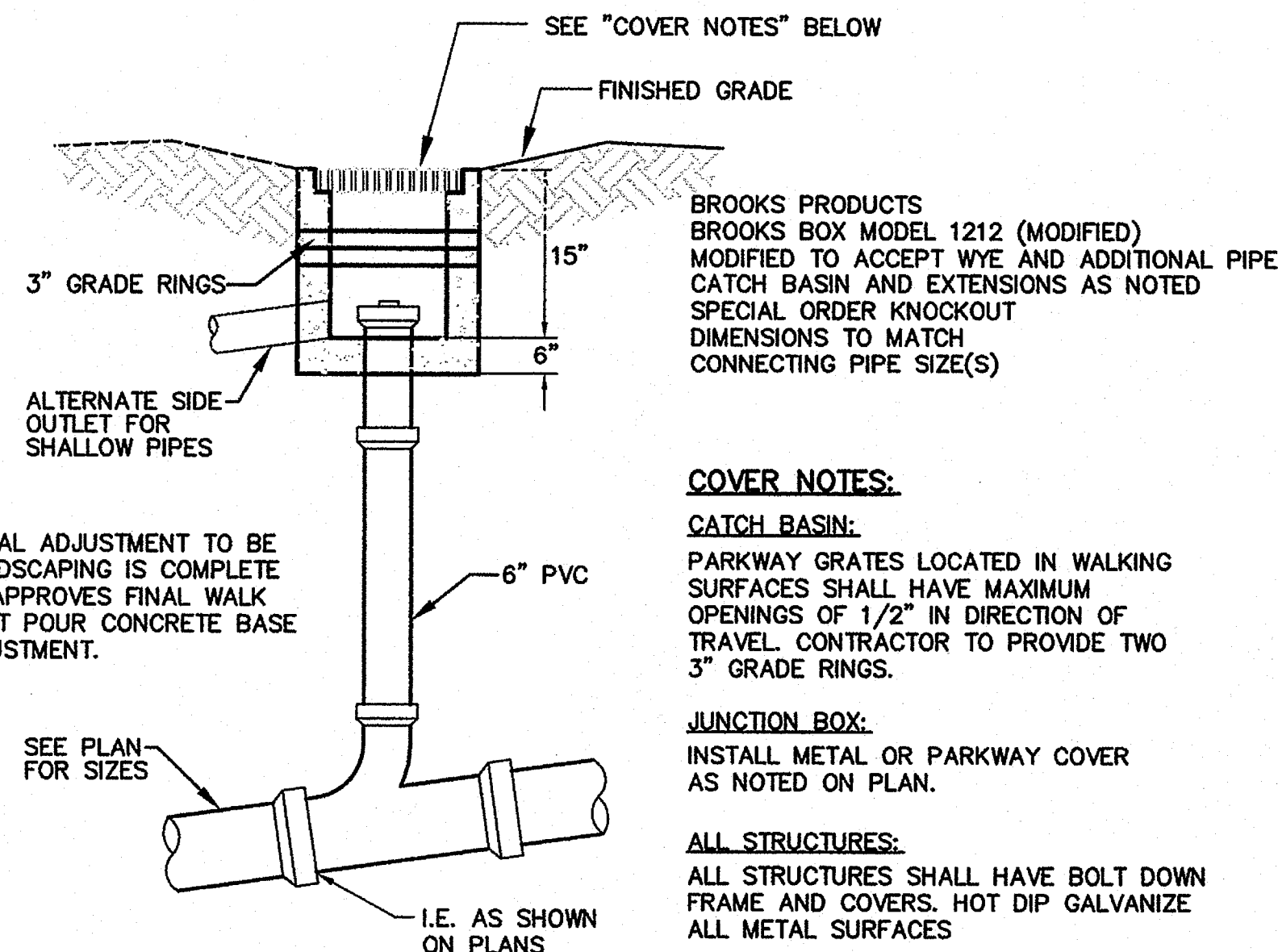
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TYPE G MODIFIED N.T.S.



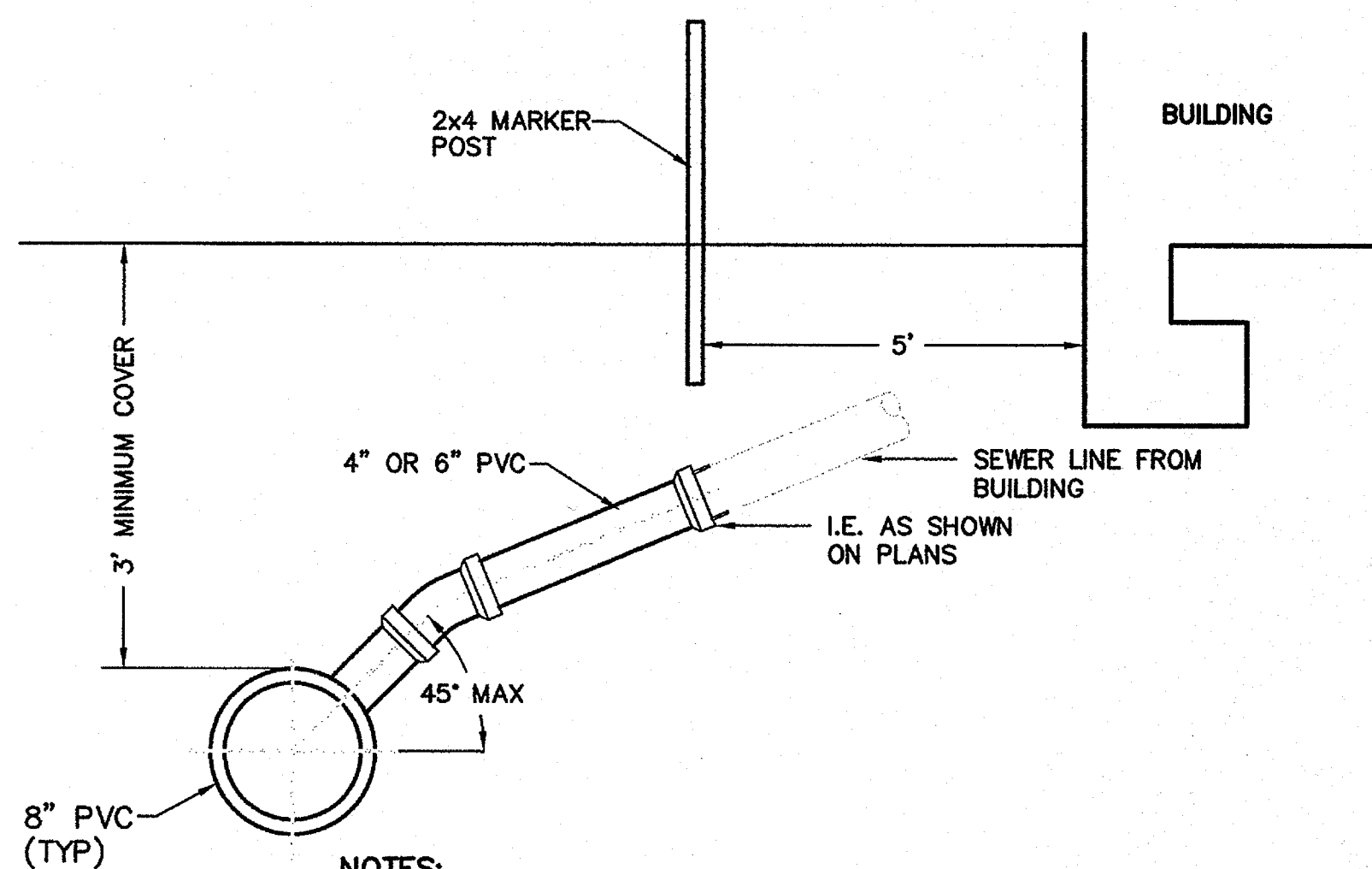
4 AREA DRAIN
LANDSCAPE AREAS N.T.S.

NOTE:

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2 CATCH BASIN DETAIL
HARDSCAPE AREAS N.T.S.



5 SANITARY SEWER CONNECTION
N.T.S.

- NOTES:**
1. LENGTH OF PIPE AND FITTINGS REQUIRED VARY BY CONNECTION
 2. SERVICE CONNECTION SHALL BE MARKED BY STAKING A 2" x 4" STUD 4' ABOVE GROUND. TOP 12" SHALL BE PAINTED GREEN.
 3. CONTRACTOR TO CONNECT TO BUILDING SERVICE. REMOVE UNUSED RISER AND CAP AS NECESSARY.
 4. CONTRACTOR TO COORDINATE SERVICE LOCATIONS WITH BUILDING PLUMBER SEE PLUMBING DRAWINGS.

BROOKS PRODUCTS
BROOKS BOX MODEL 1212 (MODIFIED)
MODIFIED TO ACCEPT WYE AND ADDITIONAL PIPE
CATCH BASIN AND EXTENSIONS AS NOTED
SPECIAL ORDER KNOCKOUT
DIMENSIONS TO MATCH
CONNECTING PIPE SIZE(S)

COVER NOTES:

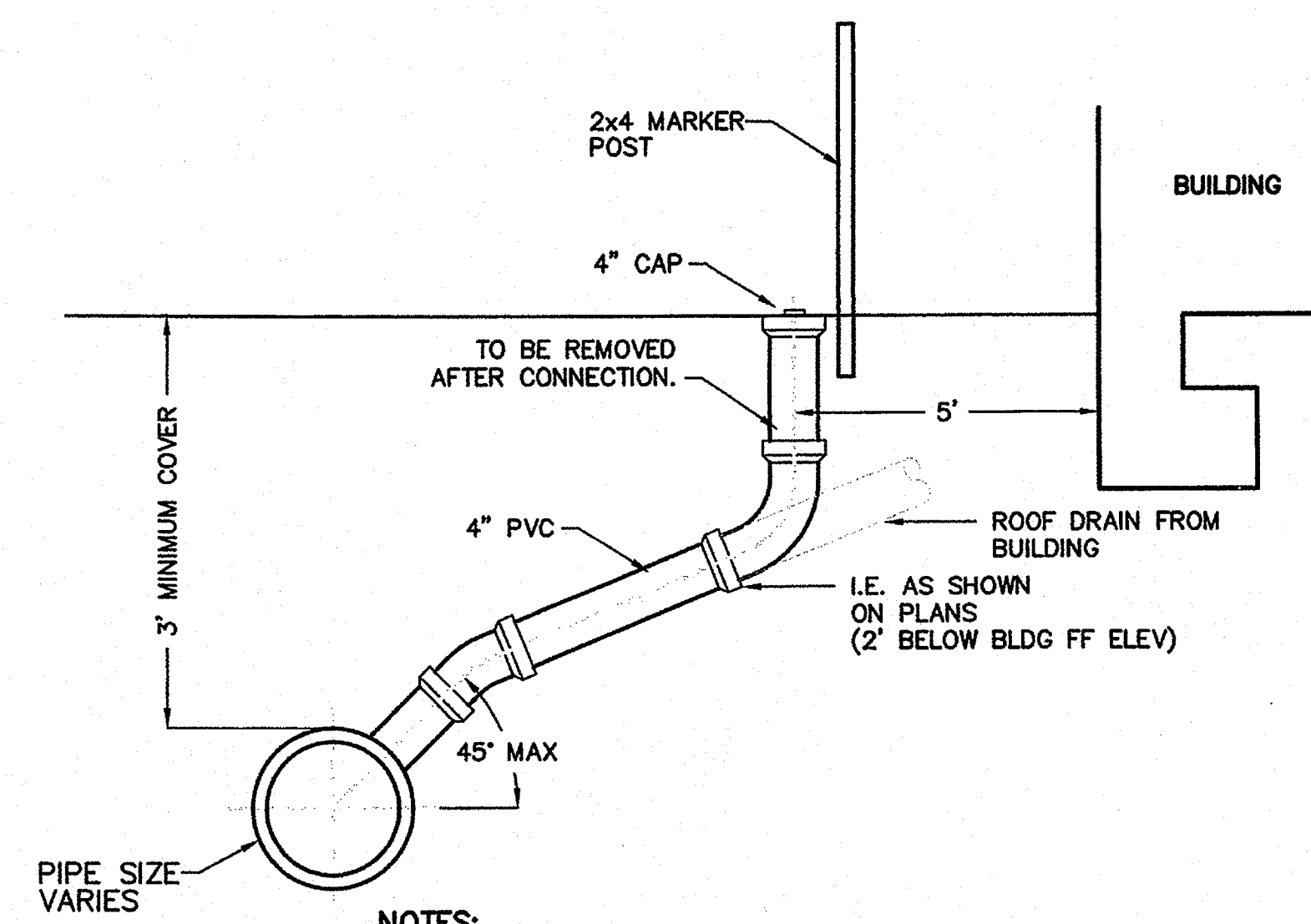
CATCH BASIN:
PARKWAY GRATES LOCATED IN WALKING
SURFACES SHALL HAVE MAXIMUM
OPENINGS OF 1/2" IN DIRECTION OF
TRAVEL. CONTRACTOR TO PROVIDE TWO
3" GRADE RINGS.

JUNCTION BOX:

INSTALL METAL OR PARKWAY COVER
AS NOTED ON PLAN.

ALL STRUCTURES:

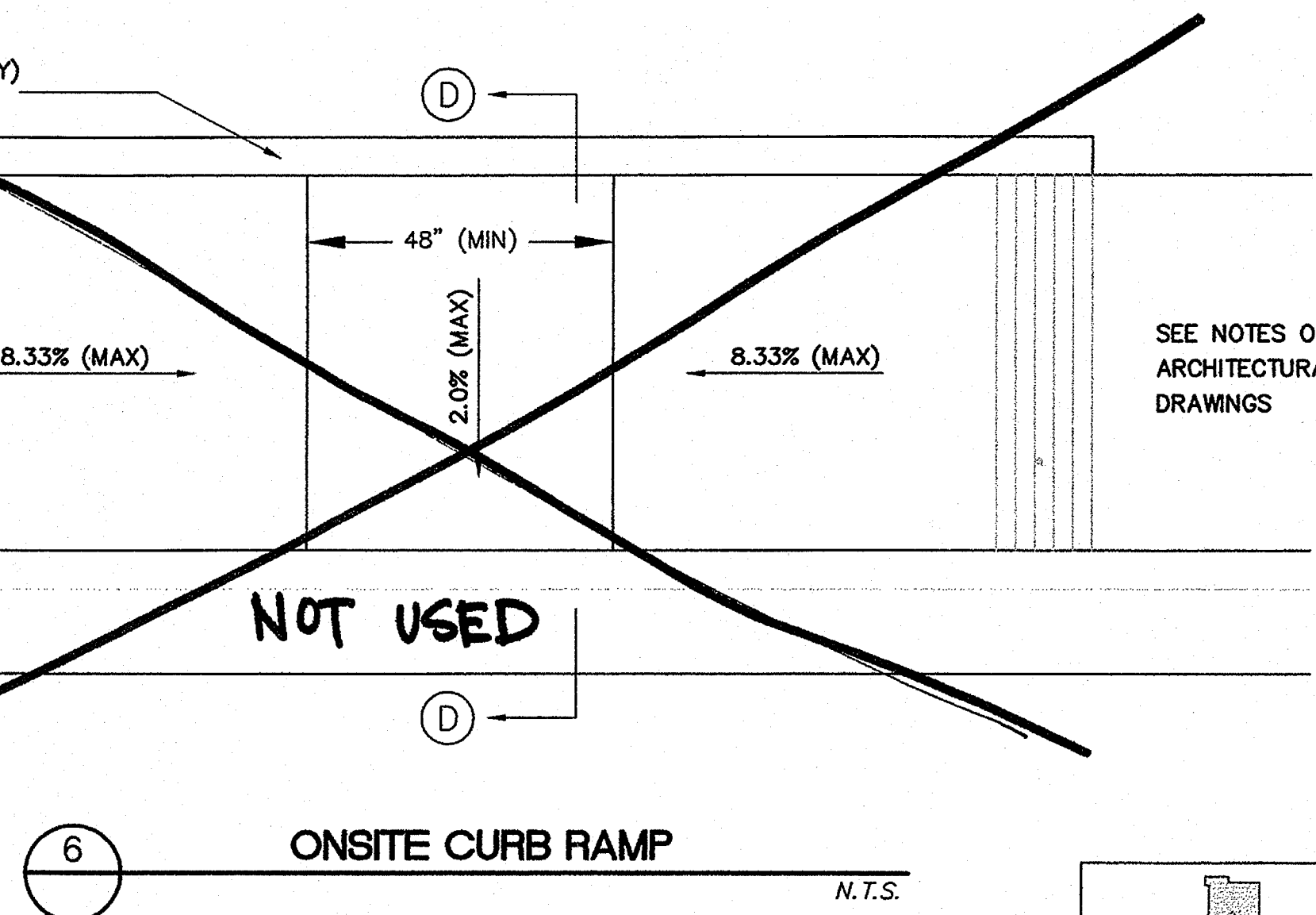
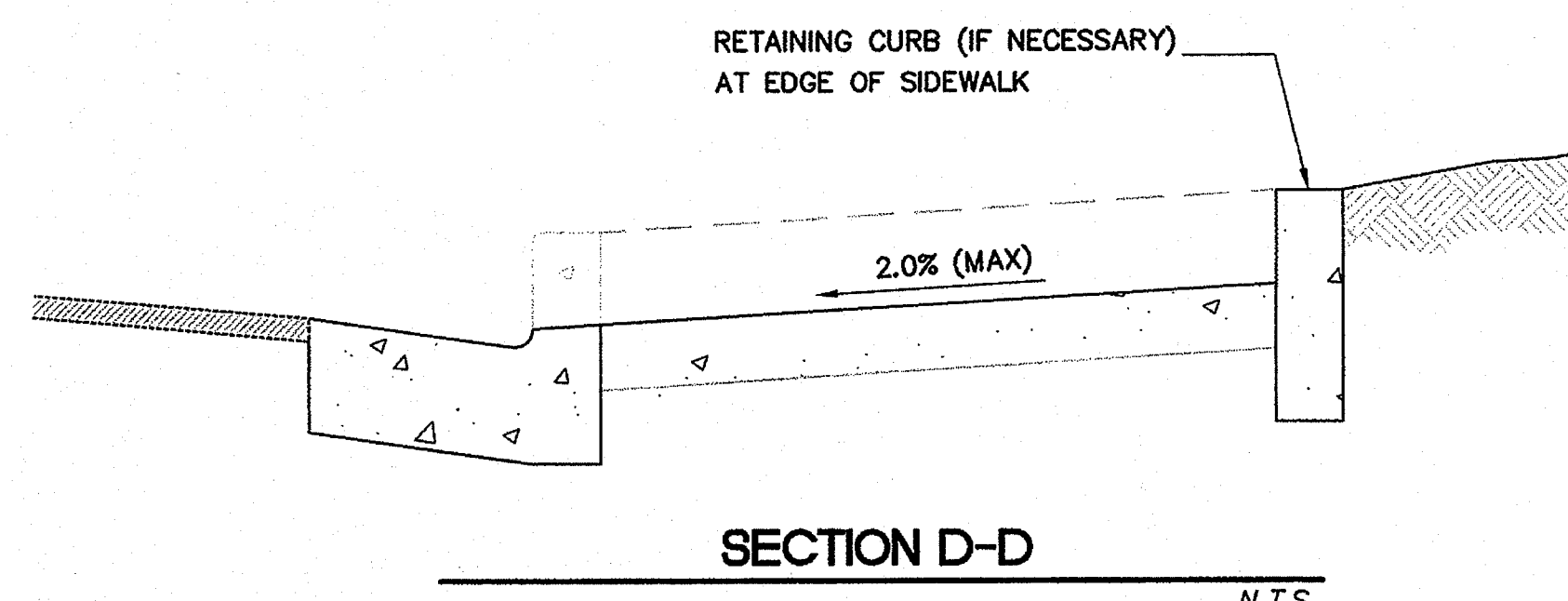
ALL STRUCTURES SHALL HAVE BOLT DOWN
FRAME AND COVERS. HOT DIP GALVANIZE
ALL METAL SURFACES



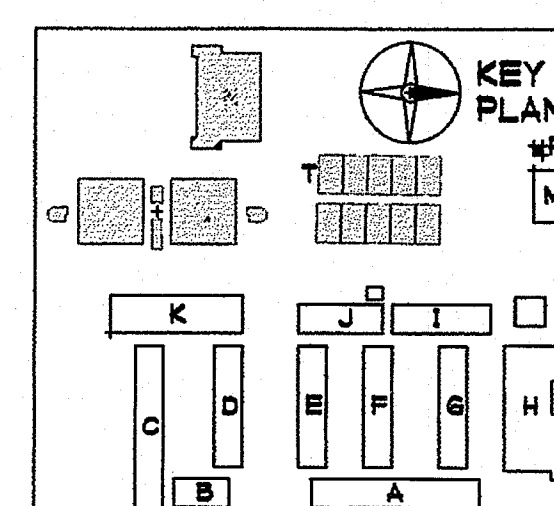
3 ROOF DRAIN CONNECTION
N.T.S.

NOTES:

1. LENGTH OF PIPE AND FITTINGS REQUIRED VARY BY CONNECTION
2. ROOF DRAIN CONNECTION SHALL BE MARKED BY STAKING A 2" x 4" STUD 4' ABOVE GROUND. TOP 12" SHALL BE PAINTED RED.
3. CONTRACTOR TO CONNECT TO BUILDING SERVICE. REMOVE UNUSED RISER AND CAP AS NECESSARY.
3. CONTRACTOR TO COORDINATE SERVICE LOCATIONS WITH BUILDING PLUMBER, SEE PLUMBING DRAWINGS.



6 ONSITE CURB RAMP
N.T.S.



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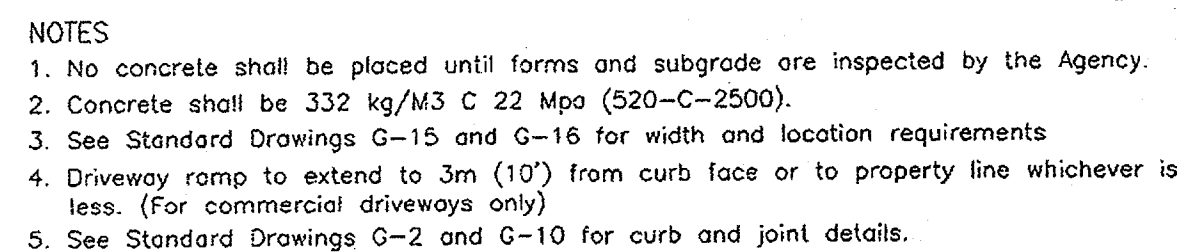
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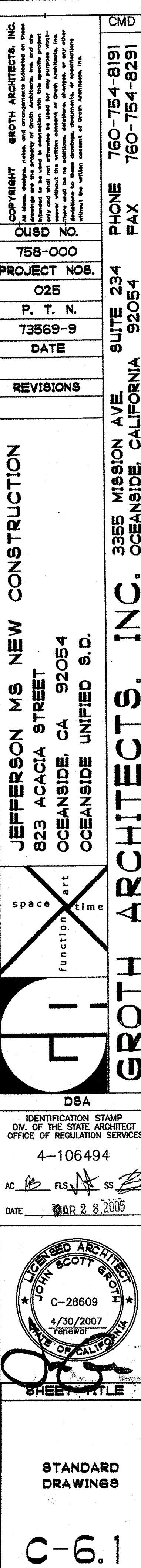
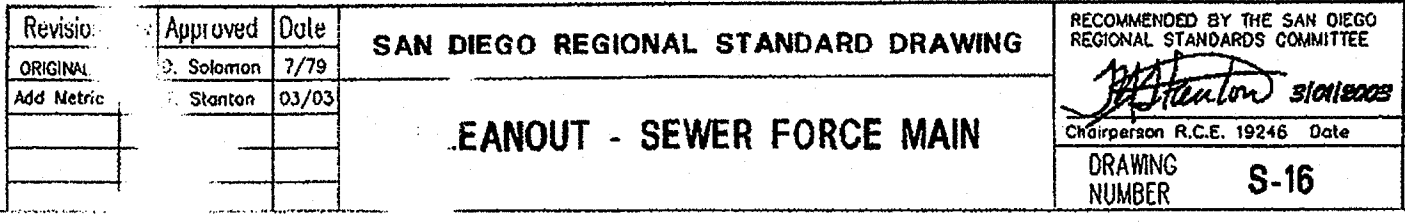
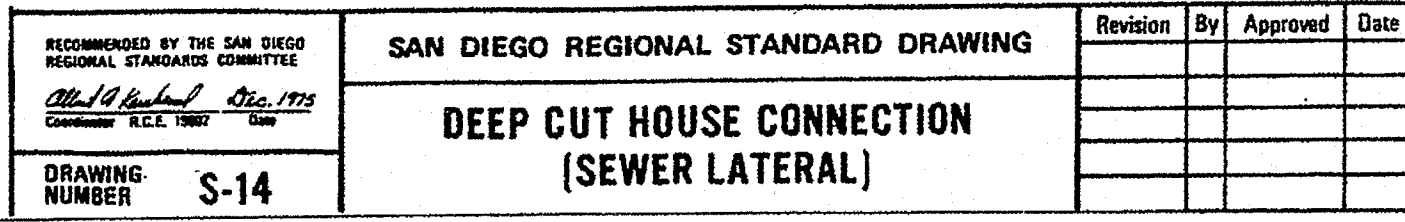
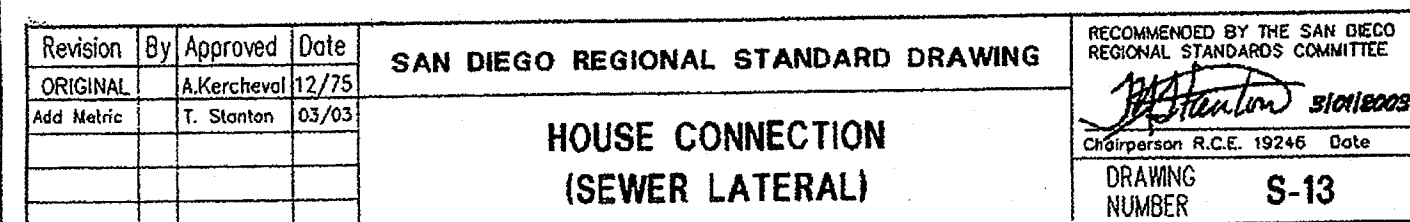
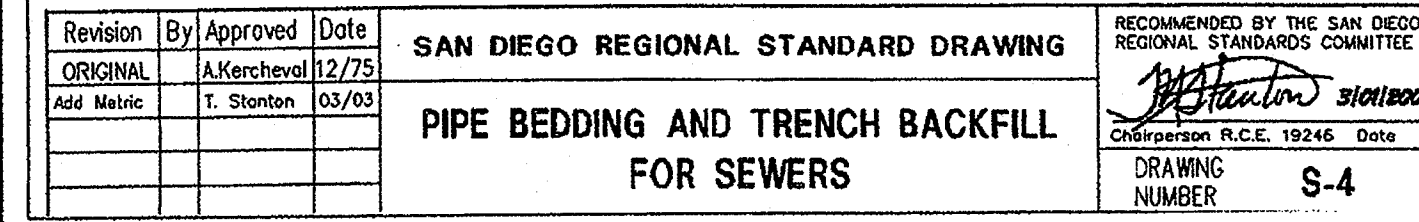
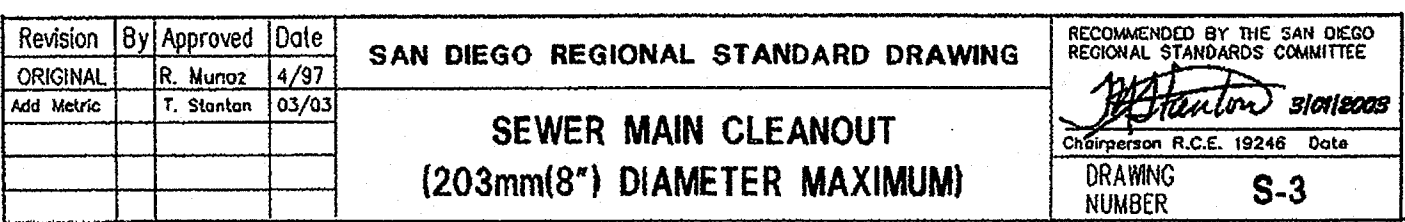
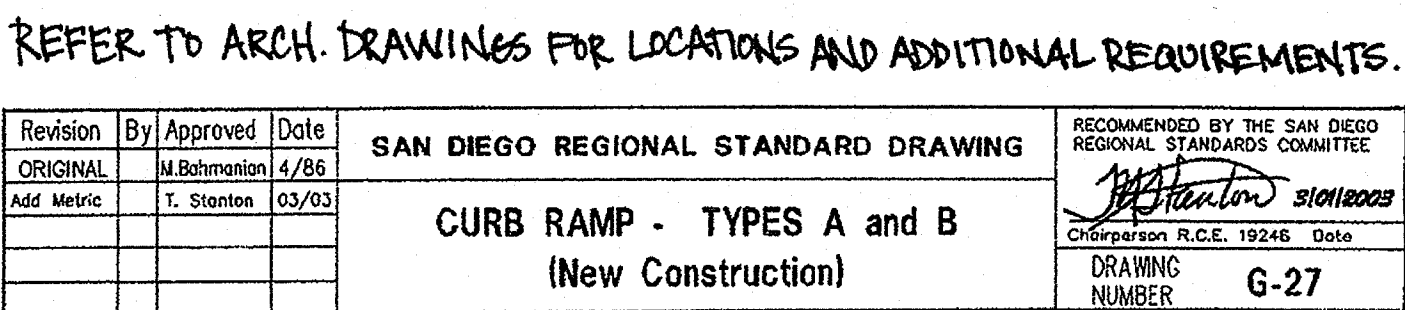
STATE OF CALIFORNIA
JAMES SCOTT GROTH
C-28609
4/30/2007
RENEWED

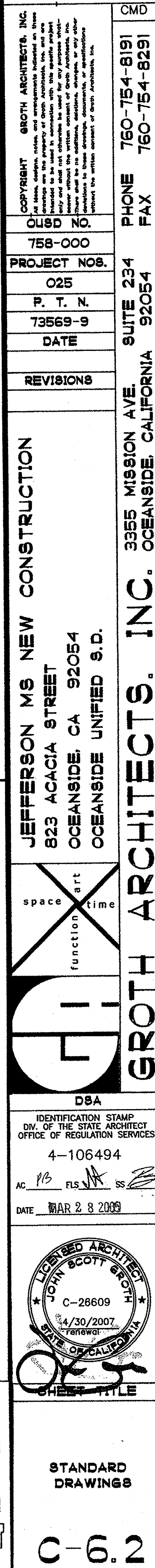
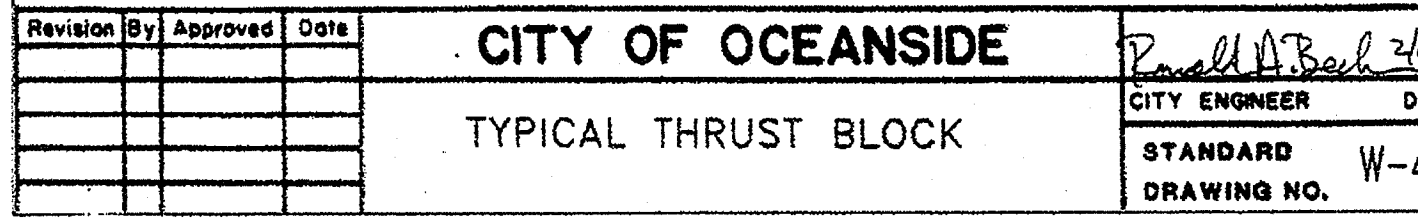
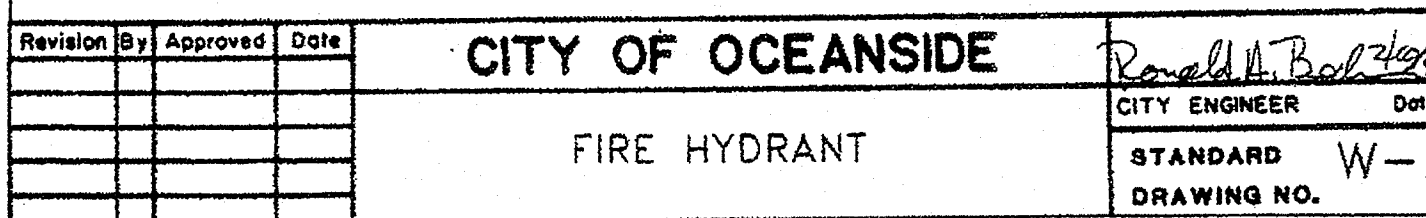
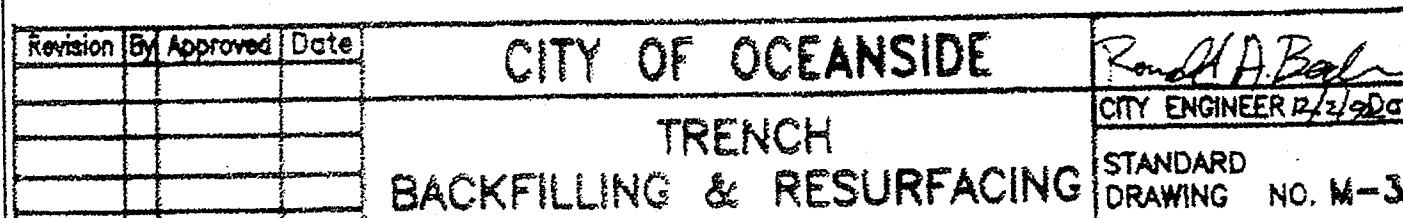
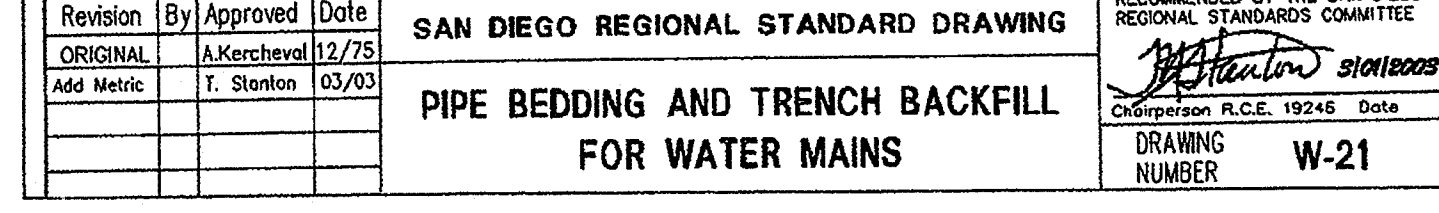
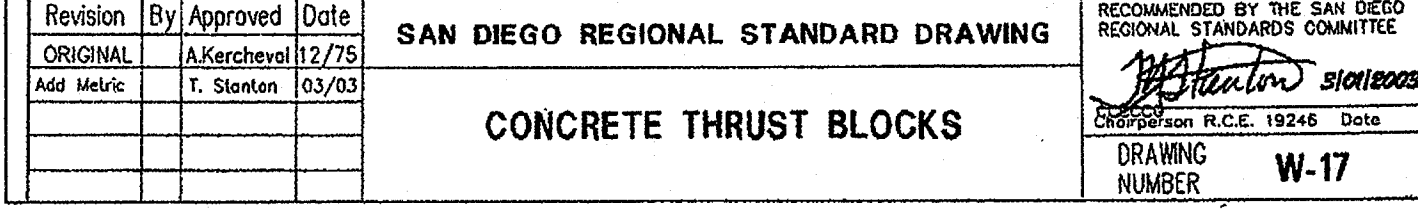
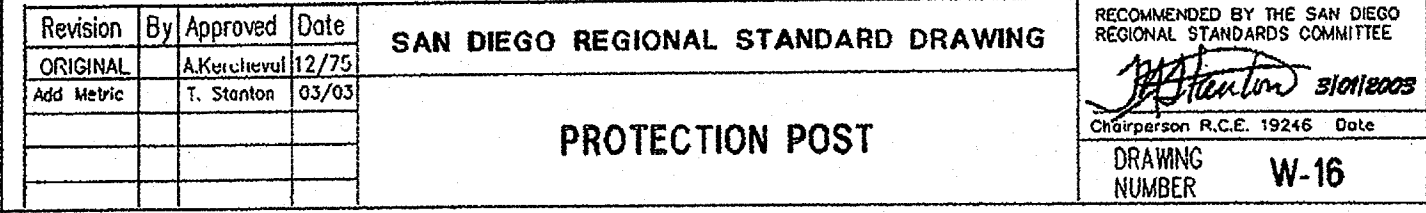
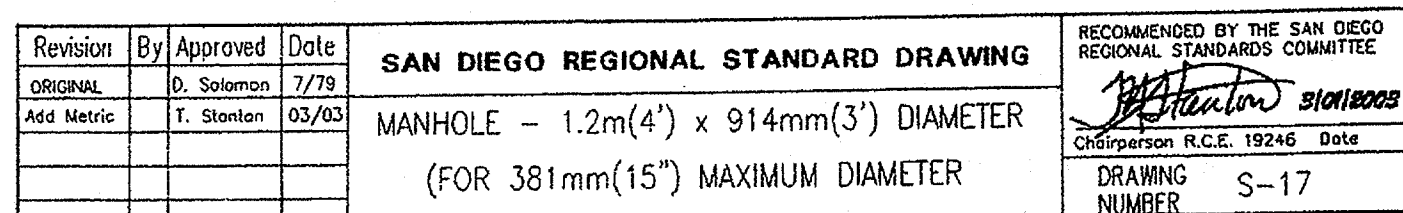
SHEET TYPE
CONSTRUCTION
DETAILS

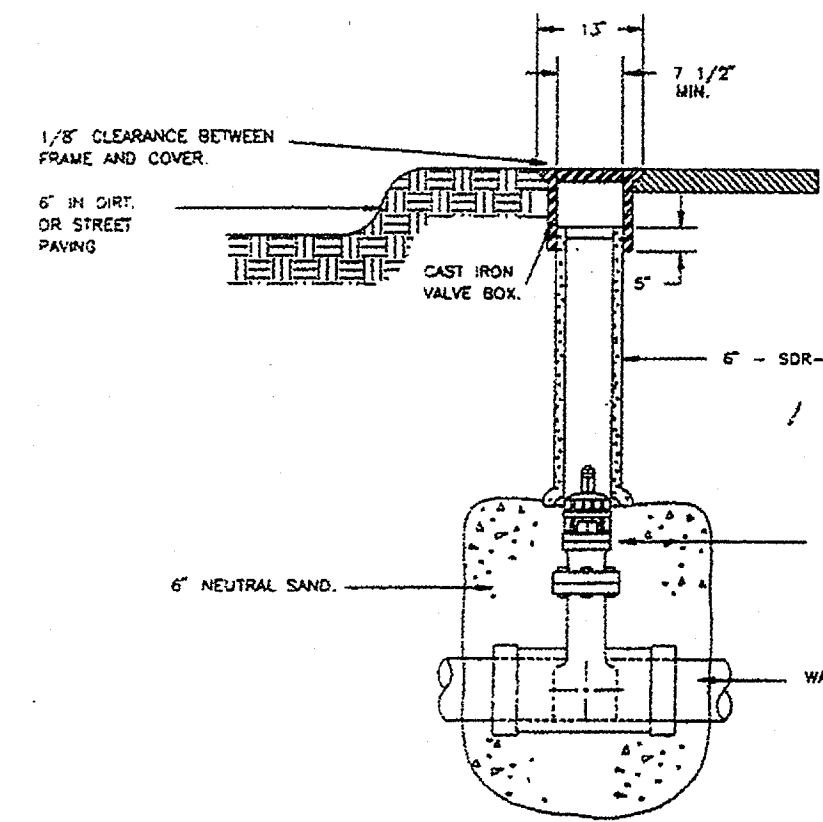
C-5.2



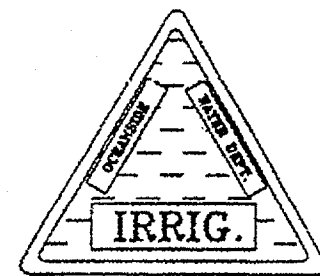
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING HOUSE CONNECTION (SEWER LATERAL)	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE  J. H. Stanton 3/10/1900
ORIGINAL		A. Kerschel	12/75		Ordination R.C.E. 19246 Date
Add Metric		T. Stanton	03/03		DRAWING NUMBER S-13







TYPICAL CROSS SECTION



TRIANGLE C.I. TRAFFIC COVERS FOR RECLAIMED WATER LINES



COVER WITH CITY OF OCEANSIDE WATER DEPT. CASTED ON TOP BY SOUTH BAY FOUNDARY C-18 FRAME AND COVER

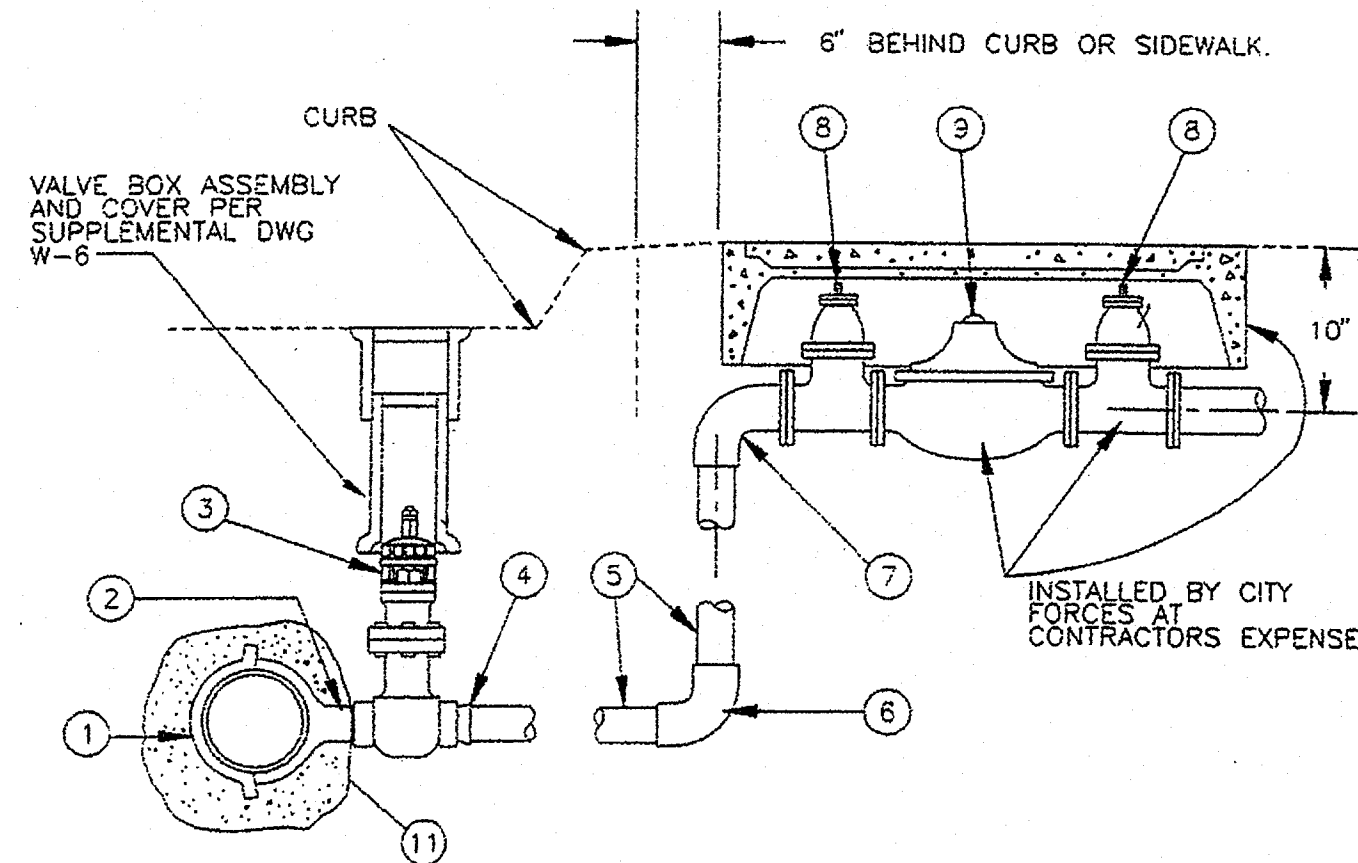
PLAN

Revision	By	Approved	Date

CITY OF OCEANSIDE

VALVE BOX AND COVERS

Ronald A. Bach
 CITY ENGINEER Date
 STANDARD
 DRAWING NO. W-6



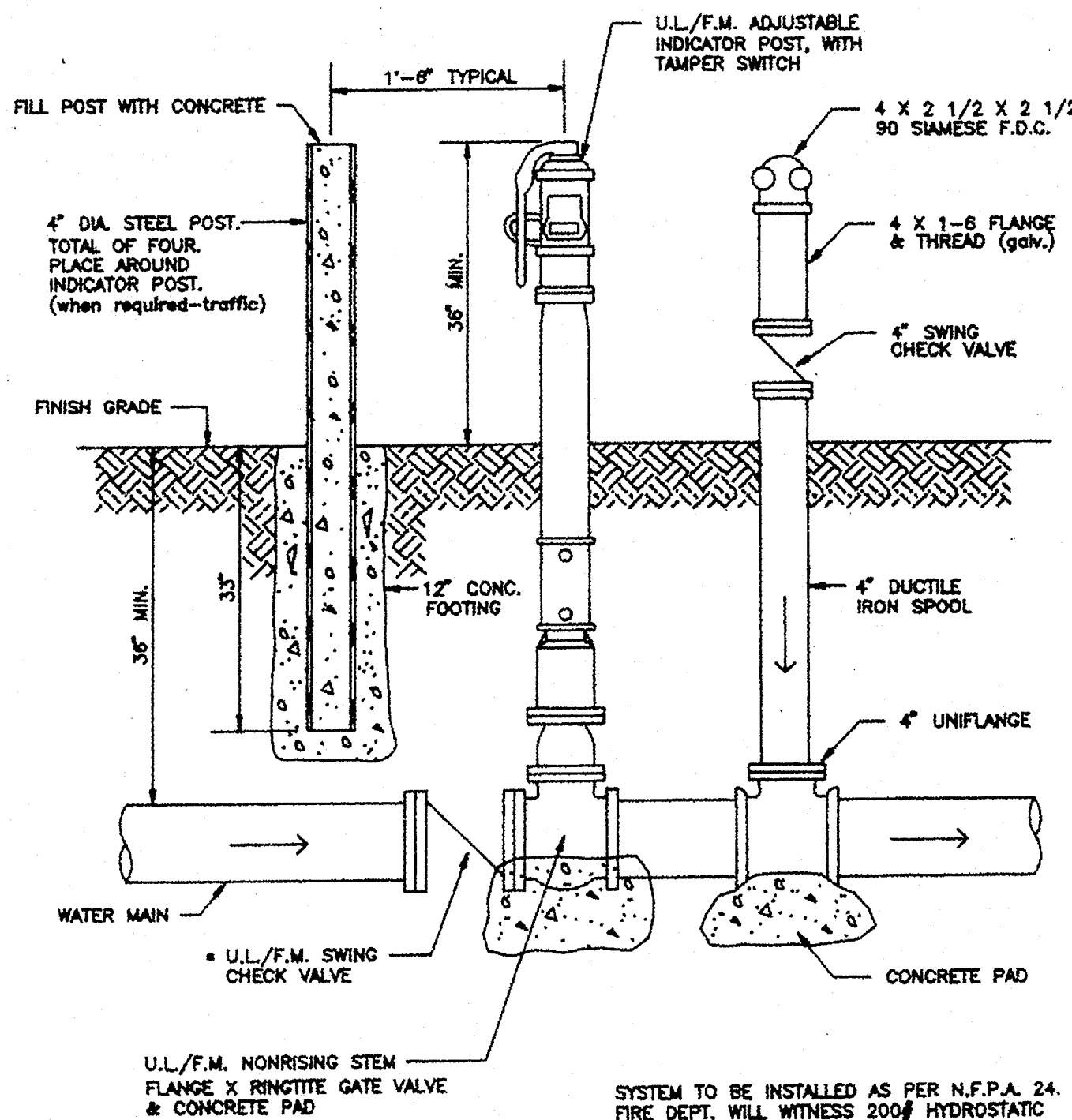
- BRONZE SERVICE CLAMP JAMES JONES J-979 PROVIDED WITH TWO FLATTED "U" BOLTS MADE OF DURENZE (SILICON BRONZE) OR SIMILAR WITH NEOPRENE SELF SEALING TAMPED GASKET OR "O" RING
- 2" x 3" BRASS NIPPLE
- 2" MUELLER NO. 2380-8 GATE VALVE, 1/2" SQ. OPERATING NUT.
- 2" COPPER TO M.I.P. ADAPTER
- 1 1/2" OR 2" TYPE "K" COPPER TUBING (RIGID)
- 1 1/2" OR 2" COPPER TO COPPER 90° ELBOW.
- 1 1/2" OR 2" COPPER TO M.I.P. 90° ELBOW.
- 1 1/2" OR 2" FLANGED x SCREW BALL VALVE, JAMES JONES NO. J-1912
- 1 1/2" OR 2" WATER METER.
- ALL JOINTS SILVER SOLDER.
- SERVICES TO BE ENCASED IN 6" NEUTRAL SAND

Revision	By	Approved	Date

CITY OF OCEANSIDE

STANDARD 1 1/2" & 2" METER SERVICE

Ronald A. Bach
 CITY ENGINEER Date
 STANDARD
 DRAWING NO. W-9



SYSTEM TO BE INSTALLED AS PER N.F.P.A. 24, FIRE DEPT. WILL WITNESS 200 PSI HYDROSTATIC PRESSURE TEST FROM BASE OF RISER TO SWING CHECK VALVE PRIOR TO CITY MAIN CONNECTION.

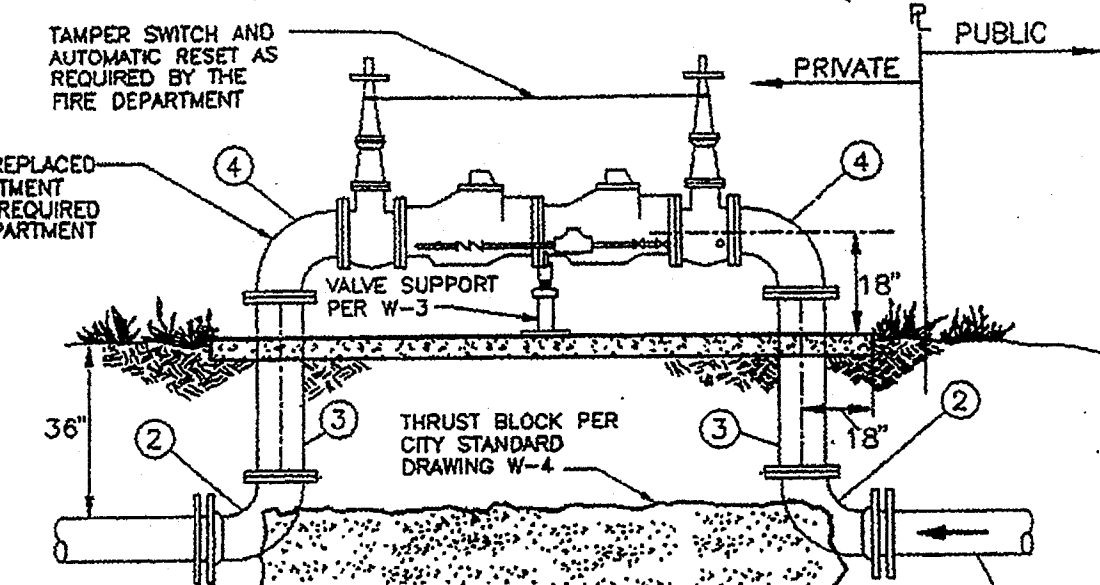
REQUIRED WITH ON-SITE HYDRANT(S) ONLY

Revision	By	Approved	Date

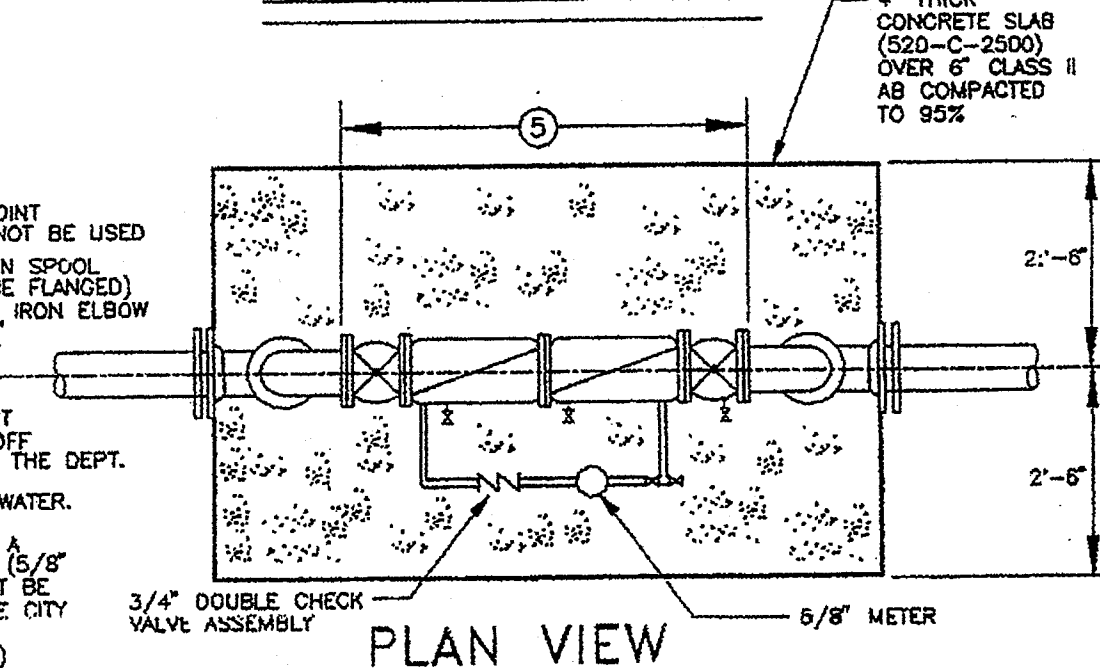
CITY OF OCEANSIDE

STANDARD POST INDICATOR VALVE
INSTALLATION WITH
FIRE DEPARTMENT CONNECTION

Ronald A. Bach
 CITY ENGINEER Date
 STANDARD
 DRAWING NO. W-16



ELEVATION VIEW



PLAN VIEW

NOTES:

- PUBLIC WATER MAIN
- 90° DUCTILE IRON ELBOW FLG X FLG.
- FLG X RT. MECHANICAL JOINT (UNI-FLANGE SHALL NOT BE USED)
- FLANGED DUCTILE IRON SPOOL (BOTH ENDS SHALL BE FLANGED)
- 90° FLANGED DUCTILE IRON ELBOW
- FACTORY ASSEMBLED

DOUBLE CHECK DETECTOR CHECK ASSEMBLY W/ RESILIENT SEATED O-RING SHUT OFF VALVES APPROVED BY THE DEPT. OF HEALTH SERVICES, OFFICE OF DRINKING WATER. WITH A 5/8" SENSUS BY-PASS METER AND 5/4" DOUBLE CHECK (5/8" 54-PASS METER MUST BE PURCHASED FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT)

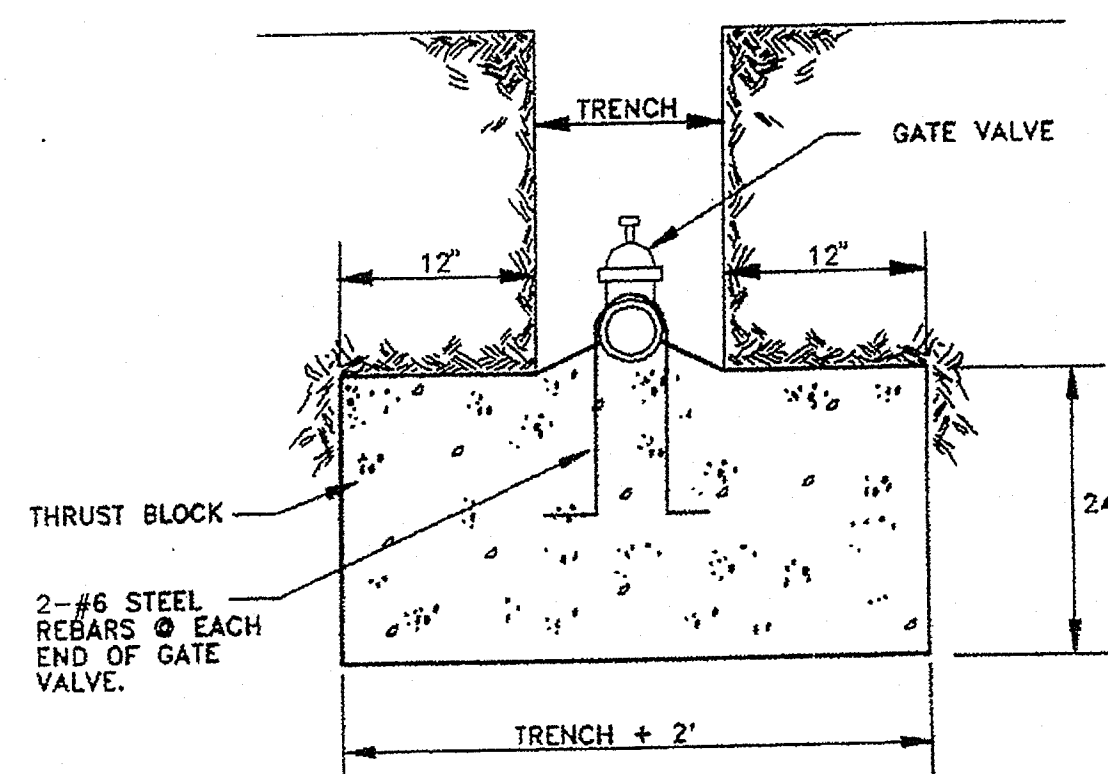
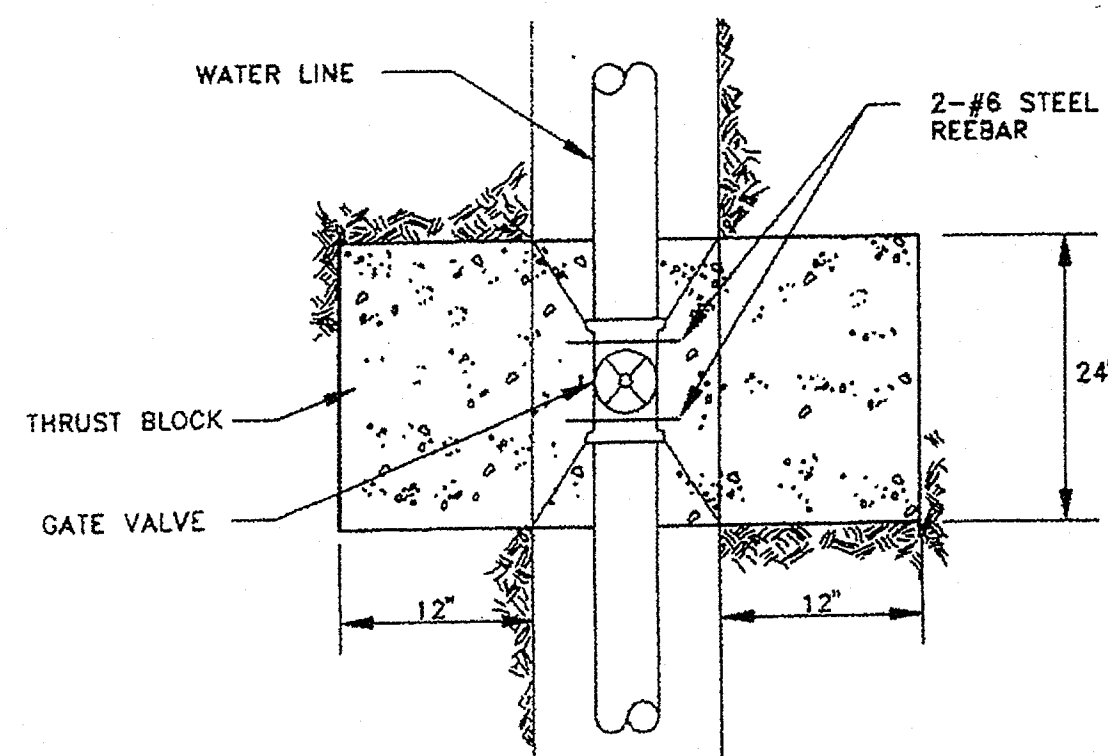
THIS ASSEMBLY SHALL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT. AFTER WATER UTILITIES DEPARTMENT'S APPROVAL ASSEMBLY SHALL BE TESTED BY A CITY APPROVED TESTER. THE DEVELOPER/OWNER IS RESPONSIBLE FOR THE COST OF TESTING THE ASSEMBLY. THERE AFTER, THE ASSEMBLY SHALL BE TESTED ANNUALLY AT THE OWNER'S EXPENSE. THE TEST REPORT IS TO BE SUBMITTED TO THE CITY WATER UTILITIES DEPARTMENT. PHONE NUMBER 966-8785

Revision	By	Approved	Date

CITY OF OCEANSIDE

DOUBLE CHECK-DETECTOR CHECK
ASSEMBLY

Ronald A. Bach
 CITY ENGINEER Date
 STANDARD
 DRAWING NO. W-17

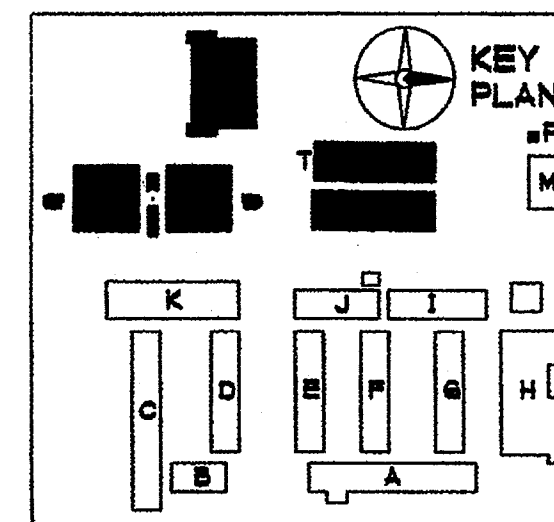


Revision	By	Approved	Date

CITY OF OCEANSIDE

LINE VALVE
INSTALLATION

Ronald A. Bach
 CITY ENGINEER Date
 STANDARD
 DRAWING NO. W-24

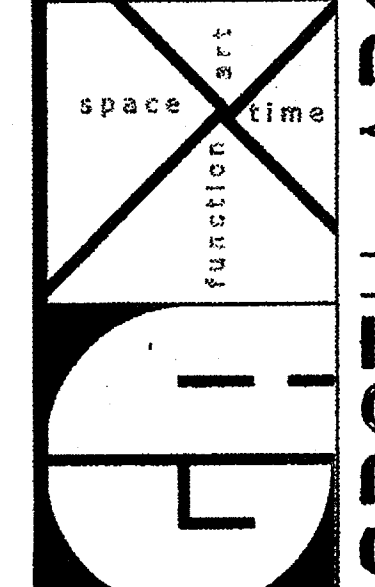


KEY PLAN

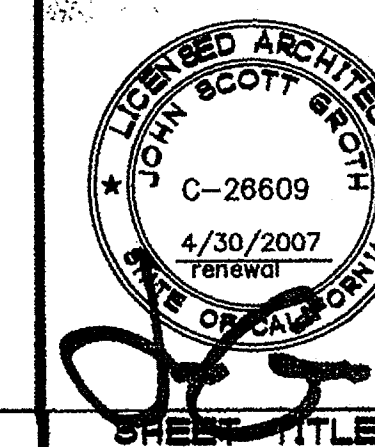
STANDARD
DRAWINGS

C-6.3

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.



DSA
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 4-106494
 AC PB FLSJ SS
 DATE MAR 28 2005

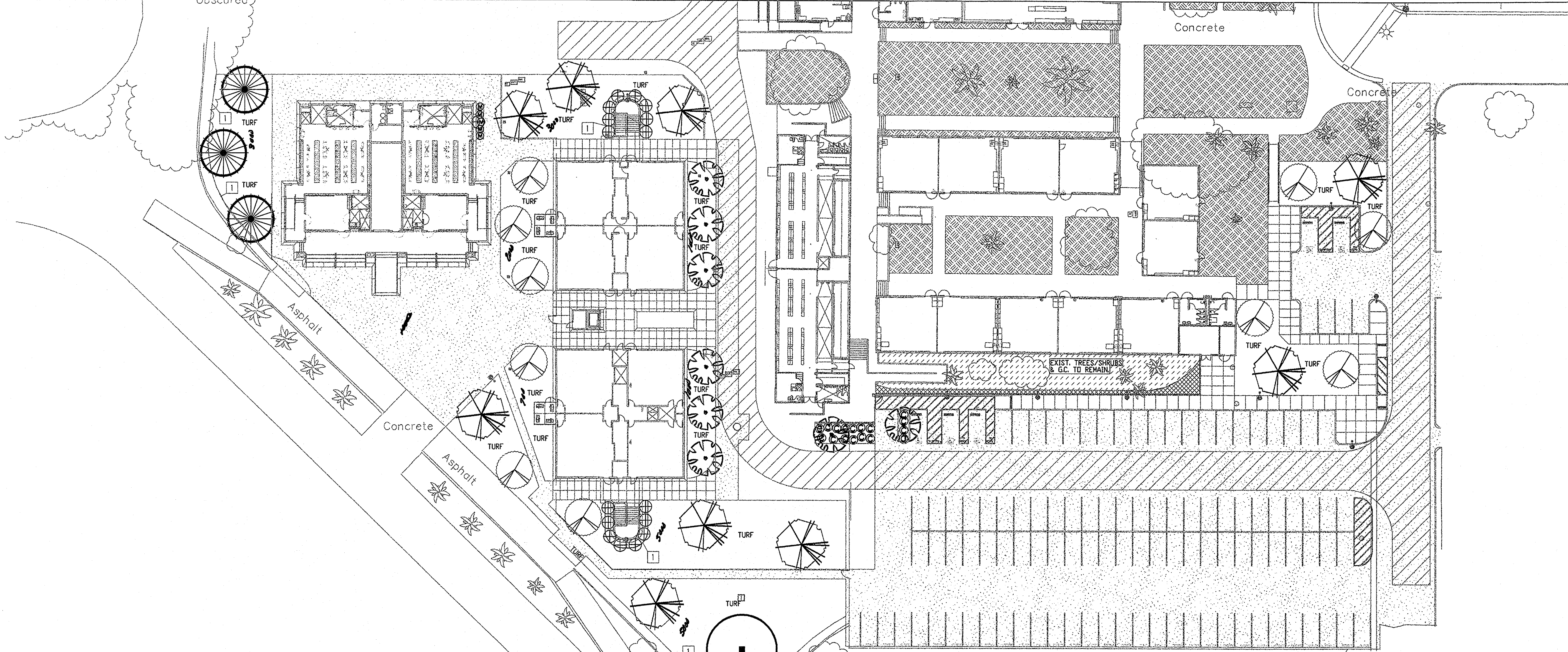


SHEET TITLE

STANDARD
DRAWINGS

C-6.3

GROTH ARCHITECTS, INC.
 3355 MISSION AVE.
 OCEANSIDE, CALIFORNIA 92054
 PHONE 760-754-8191
 FAX 760-754-8291



PLANT LEGEND

ALL QUANTITIES PER SYMBOLS ON PLAN
REFER TO SHEET L-3 FOR DETAILS
SEE SPECIFICATIONS SECTION 02480 LANDSCAPE WORK

IT IS THE RESPONSIBILITY OF THE OWNER & CONTRACTOR TO IDENTIFY THE LOCATIONS OF ALL UNDERGROUND CABLES, CONDUITS, WIRES ETC. (UTILITIES), STRUCTURES, & SERVICES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROTECT ALL MENTIONED UTILITIES, STRUCTURES, AND SERVICES DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ALL DAMAGE RESULTING FROM HIS OPERATIONS OR NEGLIGENCE.

MULCH ALL PLANTING AREAS WITH 1" LAYER OF FOREST FINES 1/2 - 1" SIZE MULCH
AGRI-SERVICE 760-643-4041

ROOT BARRIERS REQUIRED FOR ALL TREES WITHIN 5' OF PAVEMENT
USE DEEPROOT BARRIER UB 24-2 PER MANUFAC. SPECS.
FOR INFO CALL 1-800-766-8835

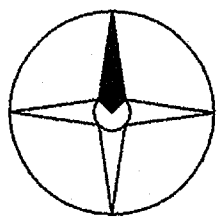
TURF AREAS: HydroSeed 12 LBS. PER 1000 SQFT.
Ballfield Mix- 3A by Agrono-Tec Seed Co.
call 1-800-543-4109

1 MOW STRIP LAWN EDGING: 2X4 BEND-A-BOARD
MADE BY EPIC PLASTICS EPICPLASTICS.COM 510-235-9339
INSTALL PER MANUFAC. SPECIFICATIONS

- EXISTING TREES/SHRUBS/GC TO REMAIN
- GROUND COVER:
ADD GAZANIA GROUNDCOVER TO MATCH EXISTING

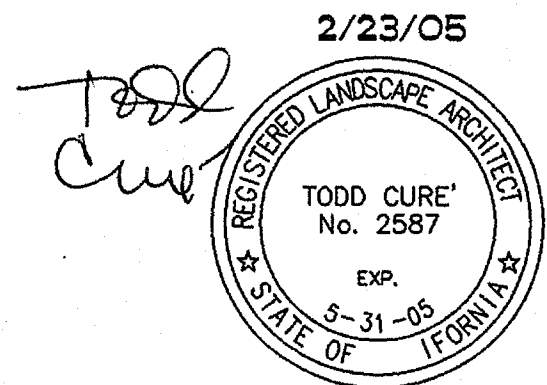
- 24" BOX
SEQUOIA SEMPERVIRENS
COAST REDWOOD
- 24" BOX
PINUS CANARIENSIS
CANARY ISLAND PINE
- 24" BOX STANDARD
LAGERSTROEMIA INDICA 'TUSCARORA'
CRAPE MYRTLE
- 24" BOX
QUERCUS PALUSTRIS
PIN OAK
- 2 GALLON PINK FLOWER CARPET
ROSA X FLOWER CARPET PINK
MONROVIA NURSERY
- 5 GALLON
CALLIANDRA INEQUILATERA
PINK POWDER PUFF
- 5 GALLON
MYRTUS COMMUNIS COMPACTA
DWARF MYRTLE

- 48" BOX
CEDRUS DEODORA
DEODOR CEDAR



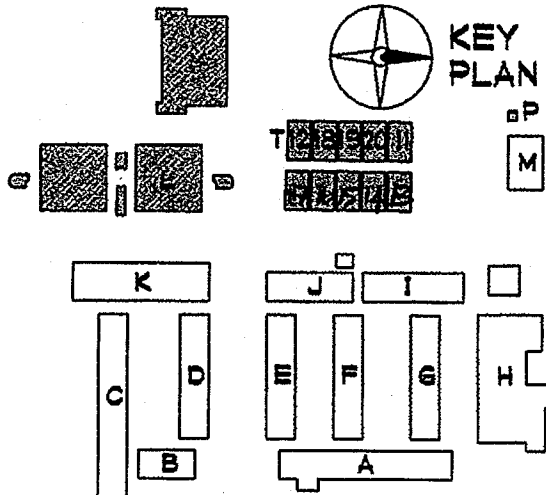
LANDSCAPE PLANTING PLAN

1" = 30'



Earth Sculpture Design
Landscape Architects Site Planning
Construction Management

1756 Kings Rd. Vista, CA 92084 (760) 941-7800



plotted 2/23/05

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written consent of Groth Architects, Inc.
GROTH ARCHITECTS, INC.
3355 MISSION AVE. SUITE 234 OCEANSIDE, CA 92054
PHONE 760-754-8191 FAX 760-754-8291

OLSD NO.
758-000

PROJECT NOS.
025

P. T. N.
73569-9

DATE
2/23/05

REVISIONS

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

space

function

time

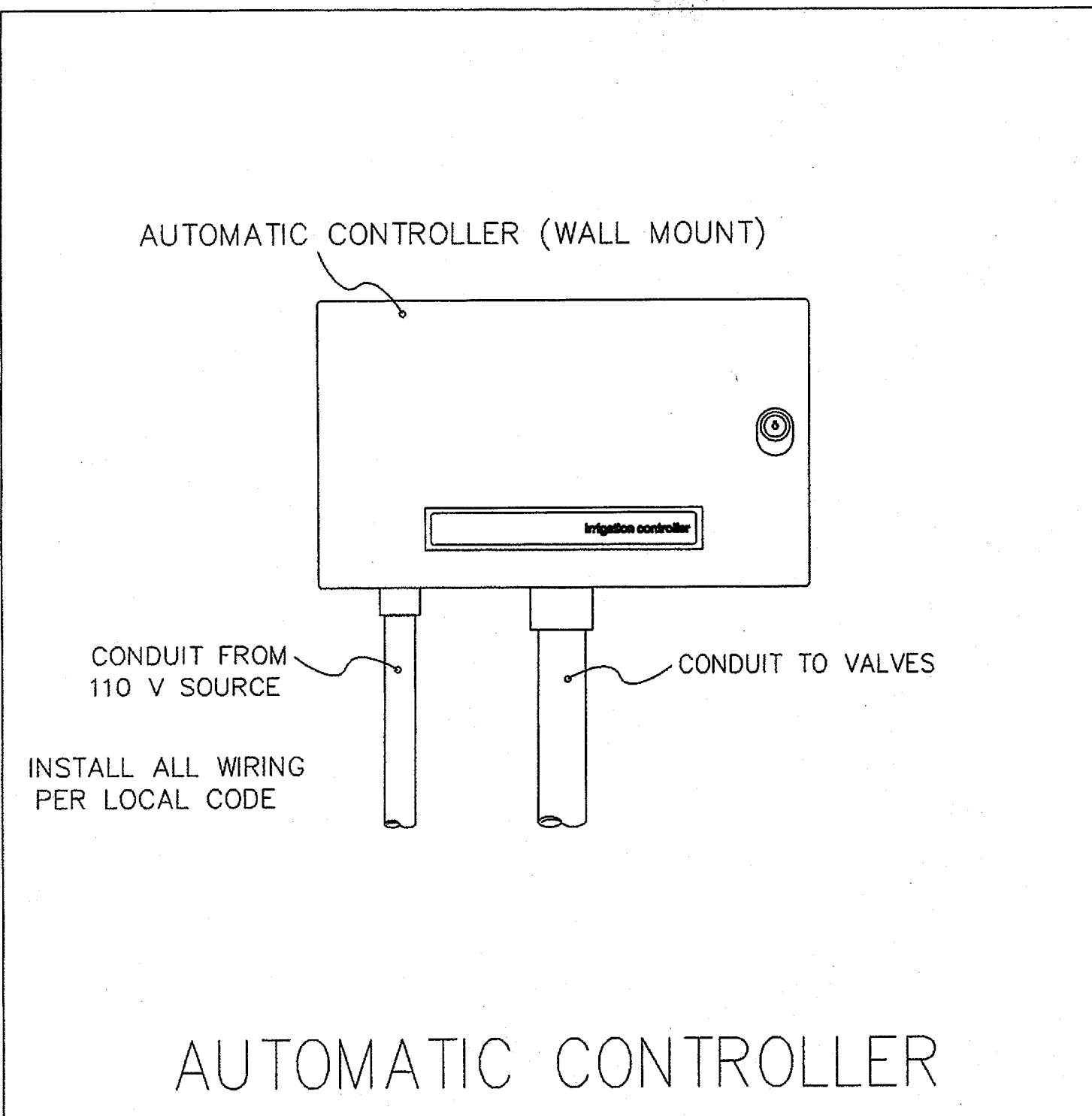
DSA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-106494
AC FLS VA SS
DATE MAR 28 2005

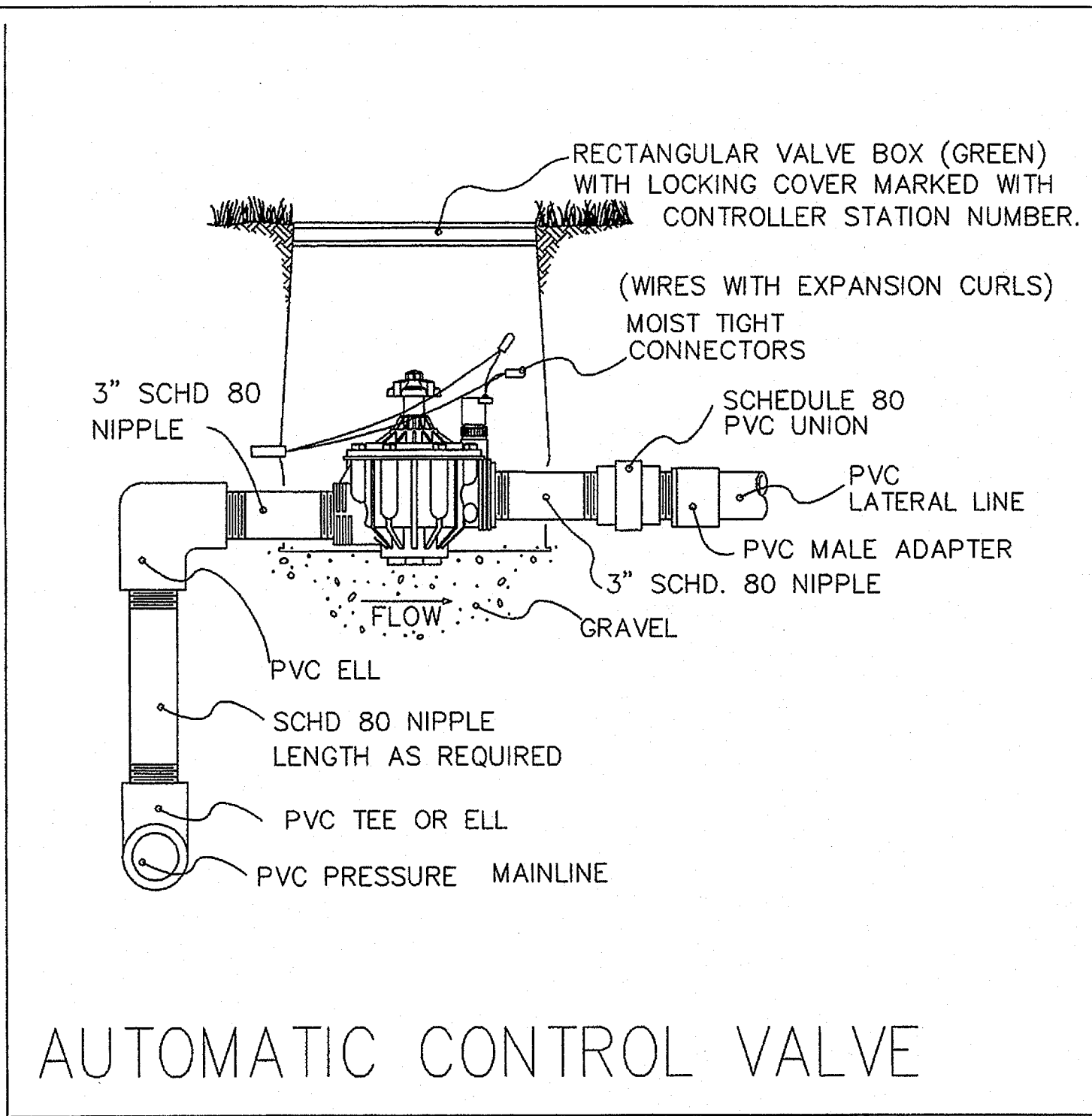
LICENSED ARCHITECT
JOHN SCOTT GROTH
C-26609
4/30/2007
RENEWAL
STATE OF CALIFORNIA

landscape
planting
plan

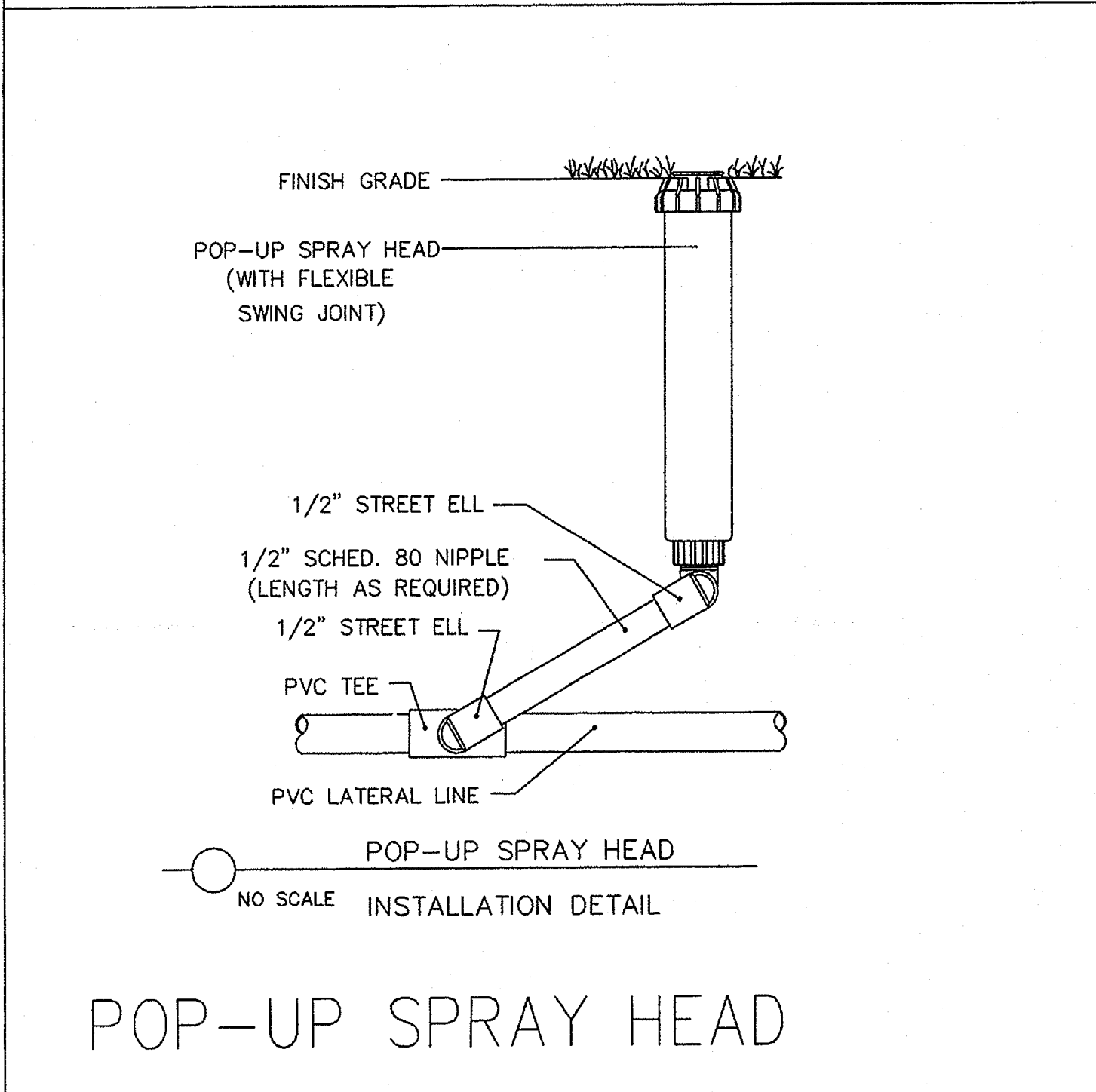
L-1



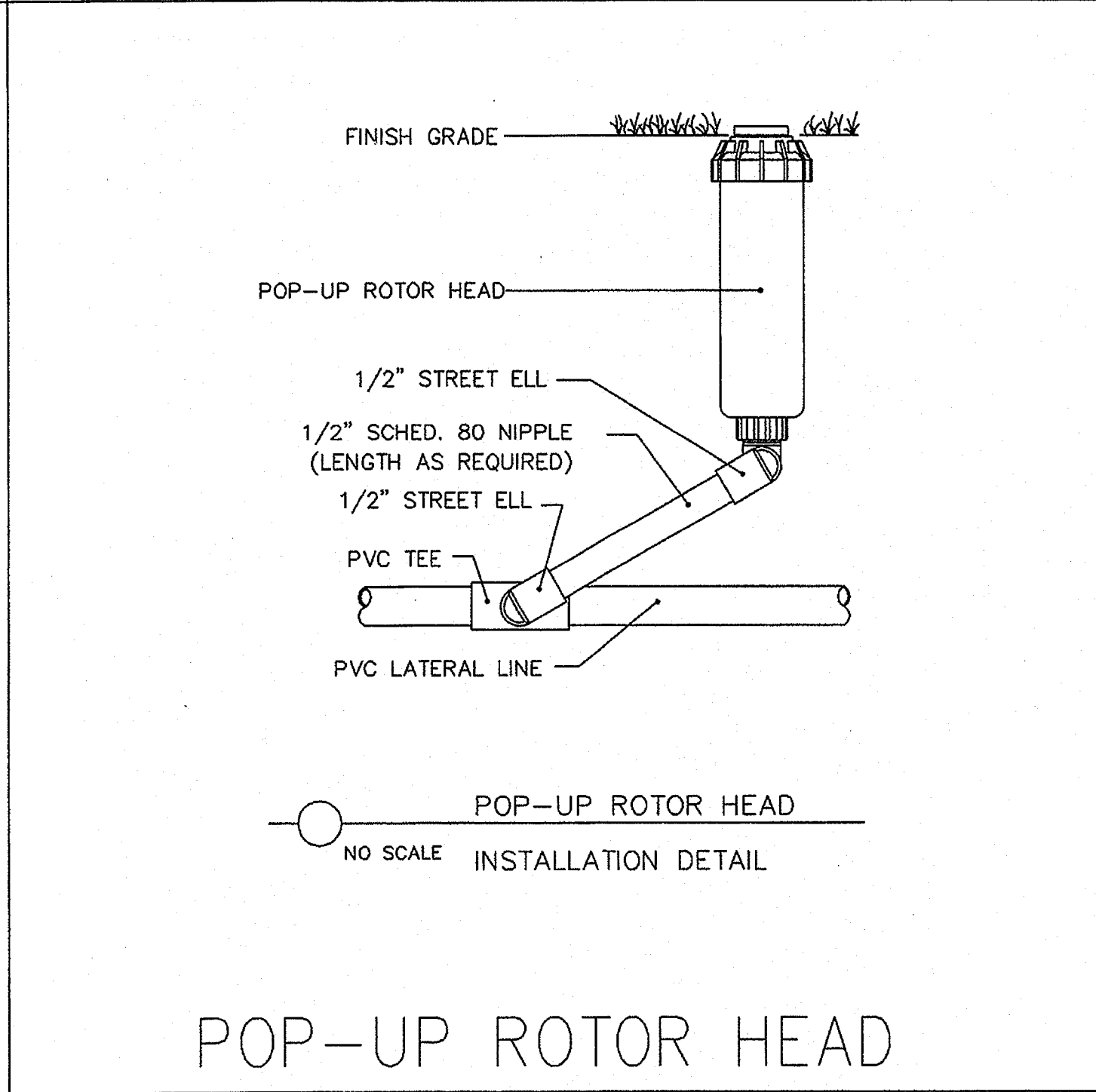
AUTOMATIC CONTROLLER



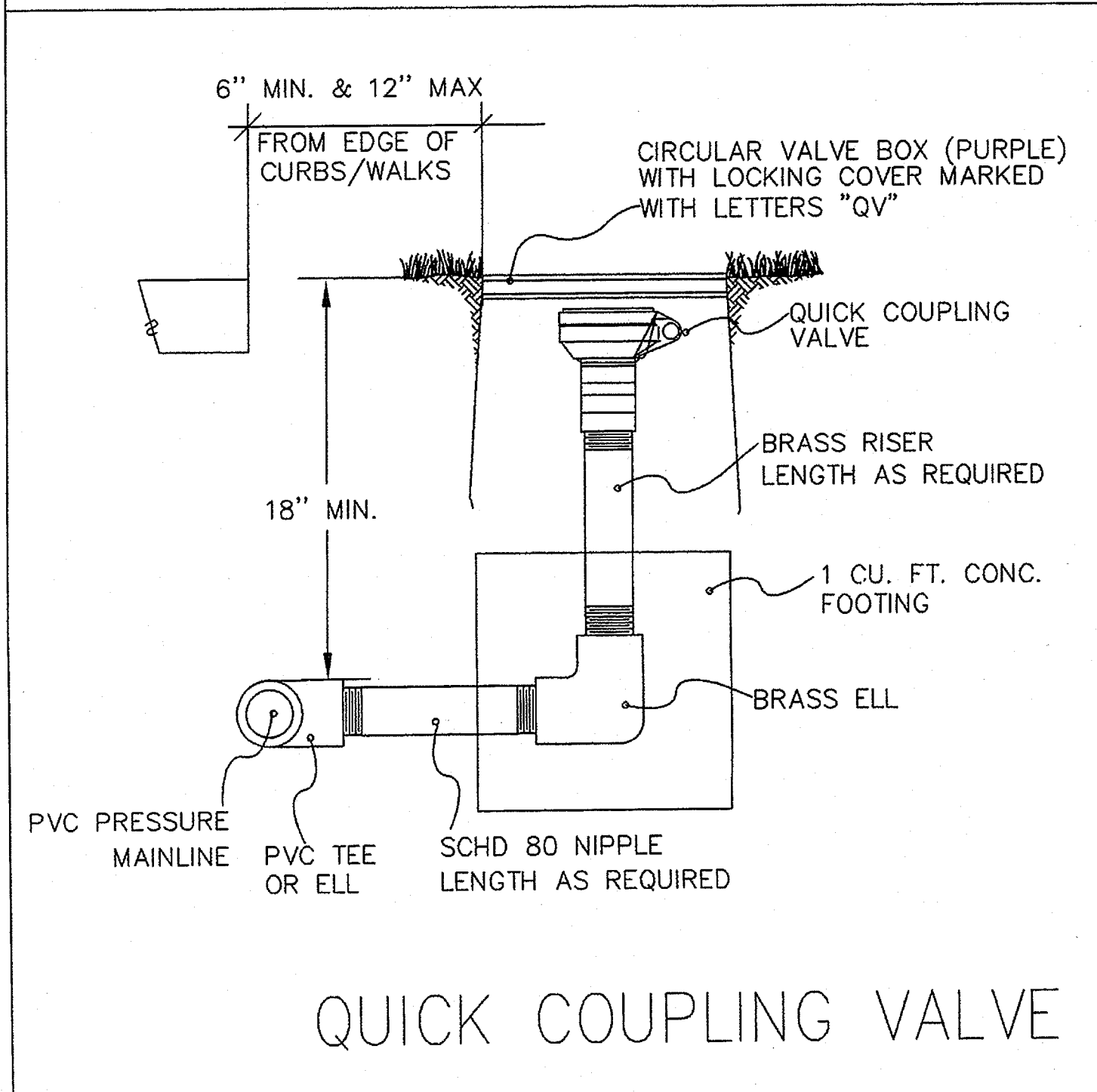
AUTOMATIC CONTROL VALVE



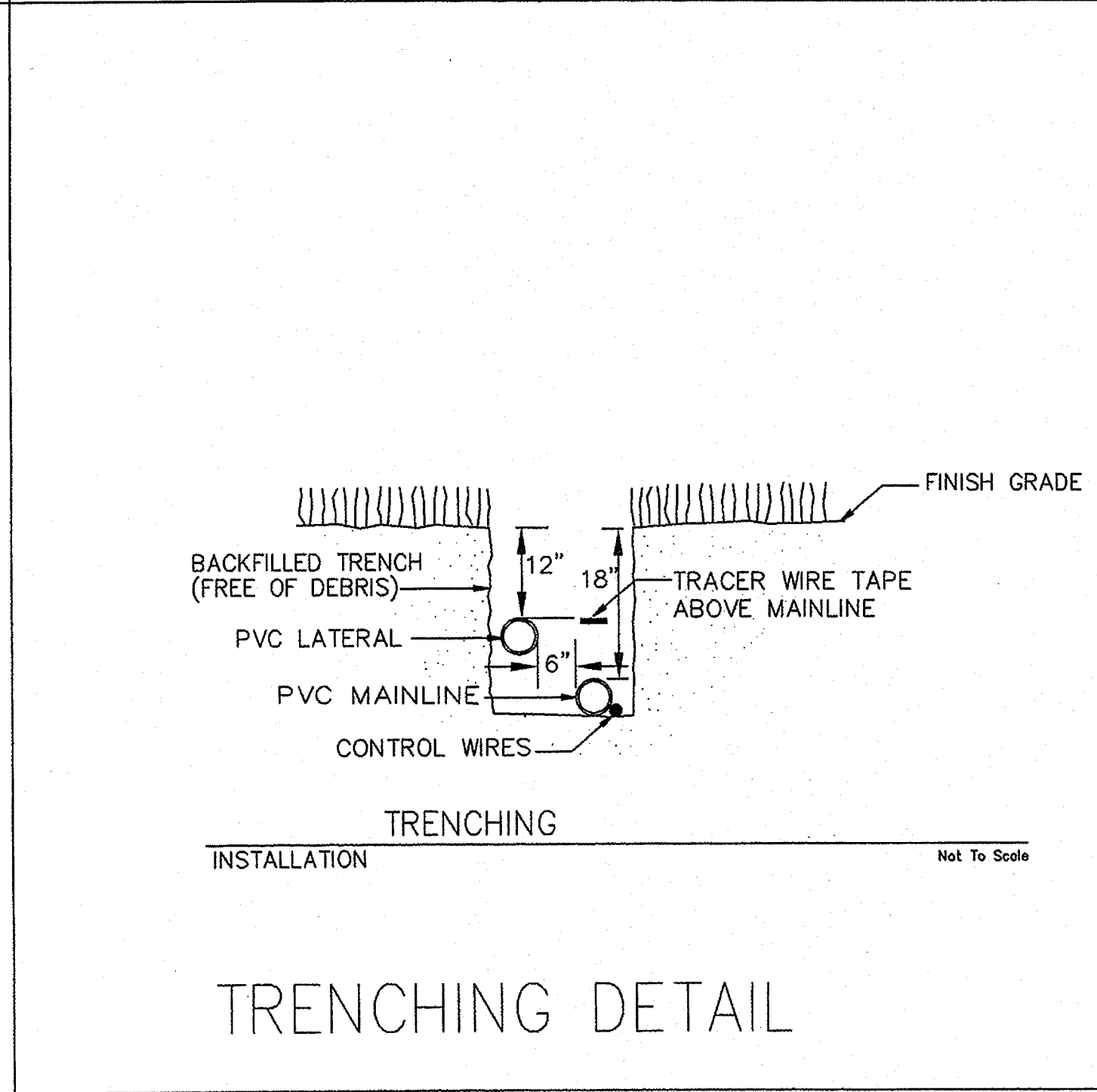
POP-UP SPRAY HEAD



POP-UP ROTOR HEAD



QUICK COUPLING VALVE



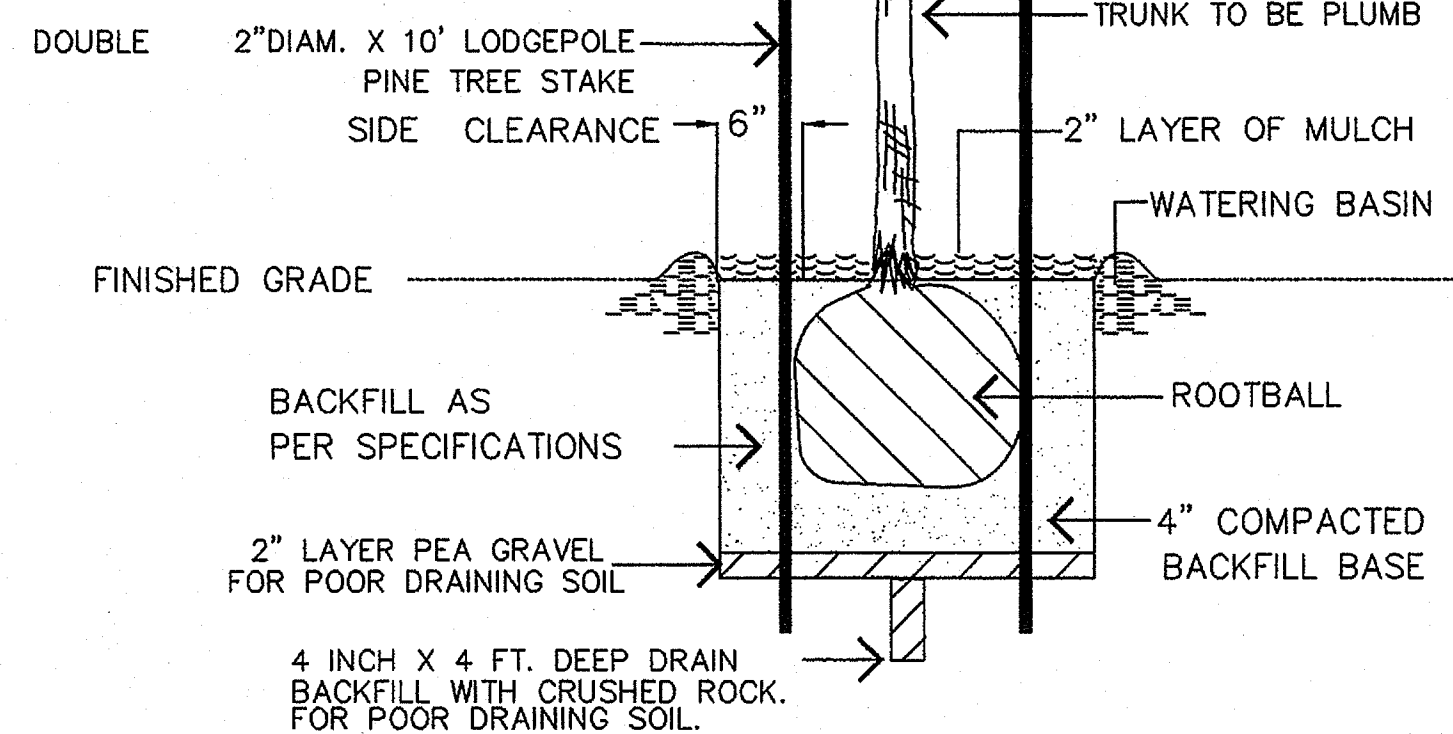
TRENCHING DETAIL

TREE PLANTING

NO SCALE

NOTE: ALL BACKFILL TO BE WATER JETTED DURING PLANTING FOR MAXIMUM STABILITY.

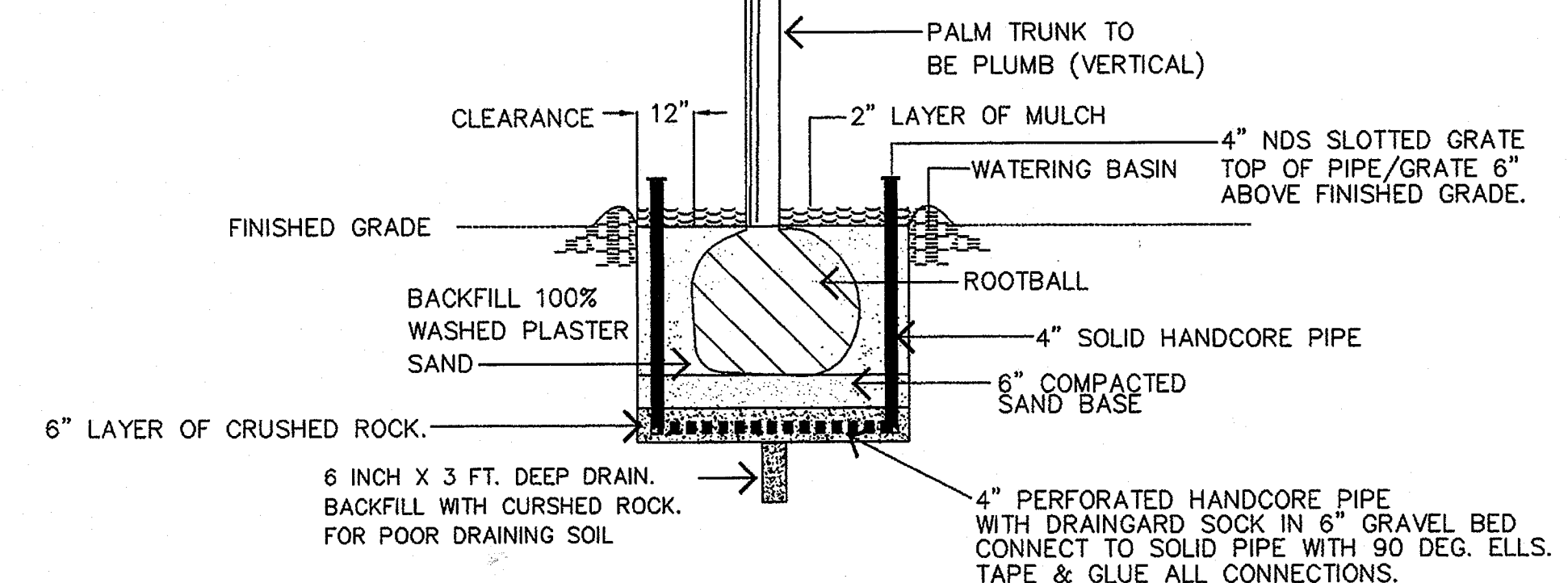
DOUBLE STAKE ALL 15-GAL, 24" BOX, 36" BOX TREES. USE MIN. 3 GUY WIRES FOR 48" BOX & LARGER TREES.



PALM TREE PLANTING

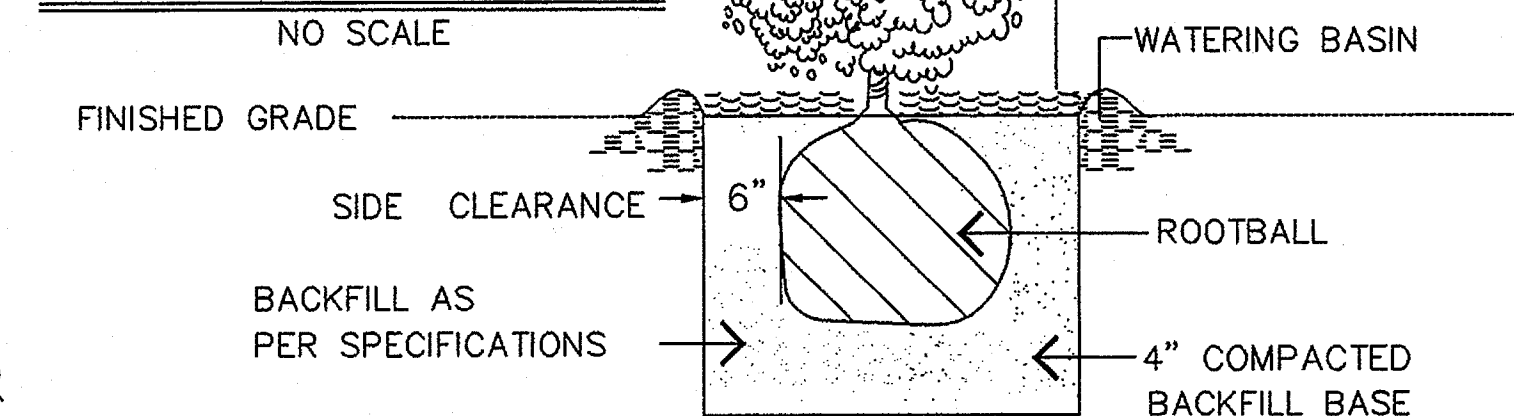
NO SCALE

NOTE: ALL BACKFILL TO BE WATER JETTED DURING PLANTING FOR MAXIMUM STABILITY.



SHRUB PLANTING

NO SCALE



Earth Sculpture Design
Landscape Architects Site Planning
Construction Management

1756 Kings Rd. Vista, CA 92084 (760) 941-7800

plotted 2/23/05

GROTH ARCHITECTS, INC.
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

JEFFERSON MS NEW CONSTRUCTION

PROJECT NOS. 758-000
P. T. N. 025
DATE 2/23/05
REVISIONS

PHONE 760-754-8191
FAX 760-754-8291

SUITE 234
3355 MISSION AVE.
OCEANSIDE, CALIFORNIA 92054

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-106494
AC FLS SS
DATE MAR 28 2005

LICENSED ARCHITECT
JOHN SCOTT GROTH
C-26609
4/30/2007 RENEWAL
STATE OF CALIFORNIA

TODD CURE
REGISTERED LANDSCAPE ARCHITECT
No. 2587
EXP. 5-31-05
STATE OF CALIFORNIA

SHEET TITLE
LANDSCAPE PLANTING IRRIGATION DETAILS

L-3



Request for Information 105

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222 Soltek Pacific
Oceanside, CA 92054

RFI #	105	Importance	Normal	Date Created	10/17/2005
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Fire walls	Mechanical	

Specification Section	Reference	Reference Drawings
Cost Impact	Amount	Sched Impact
Not Sure	Not Sure	Dwg Impact
Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments

Sketch Numbers			
Author Company		Author By	Author RFI Number
Soltek Pacific		Gary Minch	
Cc: Company Name	Contact Name	Copies	Notes

Question
There are a lot of penetrations going thru rated exterior fire walls. Is there going to be fire dampers? The drawing do not show any and the electrical does not have power to any.

Suggestion		
Answer Company	Answered By	Co-Respondent
Groth Architects Inc.	Tim Irish	

Answer
Per note #14, sheet M1.1, and also per cbc 2001 the version under which this approval was granted, fire/smoke dampers shall be installed on all ductwork passing thru fire separating walls. I think this specifically covers the entire project. Electrical dwgs do not show the ckt's for wiring these, and therefore do the following to wire these devices:

Run your wires for fire/smoke dampers off of the fire alarm system wiring. The same is true if additional detectors are needed due to this issue.

Code mandates this response. As Contractor is aware, we tried to get another solution approved, but to no avail at DSA. The drawings will stand as approved.

Prolog Manager Printed on: 5/4/2006 SPMASTER



Request for Information 105
Detailed, Grouped by each number, with routing info

10-26-2005: This response will supercede previous response.

Exterior walls shall be of 1-hour construction per table 6-A.

Openings in exterior walls are not required to be protected per Table 5-A of the CBC. The distance to the property line from the exterior wall exceeds 10 feet. Fire dampers are not required. This exemption is applicable to exterior walls on gridlines 1, 6, 7, 12, A, and B.

MANDATORY HVAC SYSTEM MEASURES

1. ALL WORK INDICATED ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE COORDINATED WITH WORKS OF OTHER TRADES PRIOR TO START OF WORK.
2. ALL HVAC EQUIPMENT LISTED IN SECTION 2-5314(A) MUST BE CEC CERTIFIED.
3. ALL DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTION 118, 123, AND 124 E.E.S. AND TABLE 6D AND SECTION 604 OF CMC.
4. ALL HVAC EQUIPMENT AND APPLIANCE SHALL MEET THE REQUIREMENTS PER SECTIONS 111-113, 115 AND 120-129 E.E.S.
5. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 112 AND 122 E.E.S.
6. ALL VENTILATION SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH USC (CALIFORNIA EDITION).
7. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND THE ORIGINAL OCCUPANTS A LIST OF THE HEATING, VENTILATION, AND AIR CONDITIONING FEATURES, MATERIALS, AND COMPONENTS INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO USE THEM.
8. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 E.E.S.
9. ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS, OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS. TESTING AND BALANCING SHALL BE DONE BY AN INDEPENDENT QUALIFIED AGENCY.
10. ALL SYSTEMS SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INDEPENDENT QUALIFIED TESTING AGENCY.

SEISMIC CRITERIA

DESIGN CRITERIA

1. THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2001 CBC SECTION 1832A AND TABLE 18A-O. ANCHORAGE DETAILS NOT SHOWN ON THE APPROVED PLANS OR OTHERWISE APPROVED BY DSA ARE SUBJECT TO FIELD APPROVAL BY DSA.
2. ALL DUCTWORK AND PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH SMACNA GUIDELINES AND AS APPROVED BY DSA.



Request for Information 003

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222 Soltek Pacific
Oceanside, CA 92054

RFI #: 003		Importance: High		Date Created: 5/11/2005	
From	Company	Sent	For	Via	
To	Company	Received	Comments		
Matt Caronna	Soltek Pacific	5/11/2005			
Ben Caronna	Diaseco/Geo/Bombard Inc	5/11/2005			

Subject	Discipline	Category
Fire Smoke Dampers	Mechanical	

Specification Section	Reference	Reference Drawings
Cost Impact	Amount	Sched Impact
Not Sure	Not Sure	Dwg Impact
Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments

Sketch Numbers				
Author Company		Authored By		Author RFI Number
Soltek Pacific		Matt Caronna		
Cc:	Company Name	Contact Name	Copies	Notes

Question
Per General notes on sheet M-1.1 Item # 14 is call out for fire smoke dampers penetrating fire rated walls. Mechanical plans MCL 2.1, 2.2, 2.3 & 2.4 Shows duct work penetrating from Mechanical room into classrooms, as well as the outside air louvers with no fire smoke dampers. Are fire smoke dampers needed?

Suggestion		
Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Steve Shires	

Answer
We have issued an ASI #002 related to this issue. See this ASI, as an augment to this response.

Fire/Smoke dampers ARE required for penetrations through fire rated walls. Per our drawing sheets wall resume, all exterior walls are fire rated.

Fire/Smoke dampers will be required at these rated walls.

Thank you.

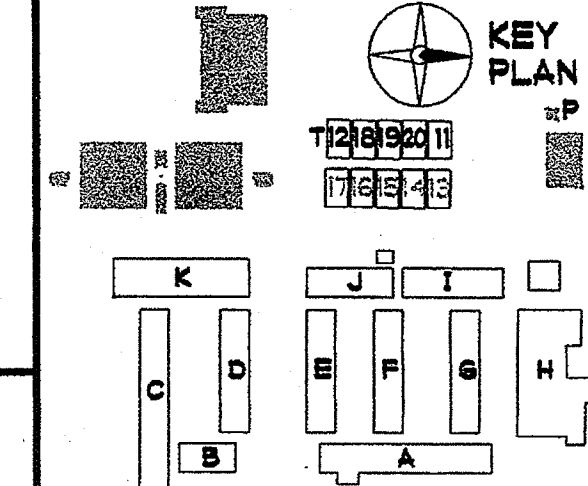
Prolog Manager Printed on: 5/4/2006 SPMASTER

LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		FLEXIBLE CONNECTION, DUCTWORK
	10X6	DUCT SIZE (1ST NUMBER INDICATES SIDE SHOWN)
	UL	INTERNALLY LINED DUCTWORK
	TV	SQUARE ELBOW WITH TURNING VANES
		ROUND ELBOW
	MVD	MANUAL VOLUME DAMPER
	R.A.	RETURN AIR
	S.A.	SUPPLY AIR
	E.A.	EXHAUST AIR
	UC	UNDERCUT DOOR
	OA	OUTSIDE AIR
		FLEXIBLE DUCTWORK
		ROUND DUCT UP
		CEILING SUPPLY AIR DIFFUSER (4-WAY THROW UNLESS NOTED OTHERWISE)
	RR/RG	RETURN AIR REGISTER/GRILLE
	ER/EG	EXHAUST AIR REGISTER/GRILLE
	TSTAT	THERMOSTAT
	BT	BYPASS TIMER
	CFM	CUBIC FEET PER MINUTE
	EF	EXHAUST FAN
	EXH.	EXHAUST AIR
	ESP	EXTERNAL STATIC PRESSURE (INCHES OF WATER)
	FPM	FEET PER MINUTE
	SA	SUPPLY AIR
	RA	RETURN AIR
	SD	DUCT MOUNTED SMOKE DETECTOR INTERLOCK WITH FIRE ALARM SEE ELEC. DWGS.
	BDD	BACKDRAFT DAMPER
	OBD	OPPOSED BLADE DAMPER
	MFR	MANUFACTURER
	TC	TIMECLOCK (ELECTRONIC PROGRAMMABLE)
	HP	HORSEPOWER
	FLA	FULL LOAD AMPS
	APF	POINT OF CONNECTION ABOVE FINISHED FLOOR

GENERAL NOTES

1. ALL BRANCH DUCTS SHALL HAVE BALANCE DAMPERS WITH QUADRANT LOCKS.
2. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
3. DUCTWORK SHALL BE GALVANIZED SHEET METAL IN COMPLETE CONFORMANCE WITH C.M.C. AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. FLEXIBLE DUCTS MAY BE USED TO CONNECT INTO AIR OUTLETS AND INLETS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 7'-0". ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA/ORS.
- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND DSA FIELD ENGINEER.
- A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
4. ALL FLEXIBLE DUCTS SHALL BE INSULATED. MINIMUM BEND RADIUS SHALL BE TWICE THE DUCT DIAMETER.
5. SUPPLY AND RETURN DROPS SHALL BE SHEET METAL PLENUM.
6. DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ENERGY COMMISSION (C.E.C.) LATEST EDITION TABLE 2-53B, THE STATE MECHANICAL CODE PART 4, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE, AND THE LATEST EDITION OF THE UNIFORM MECHANICAL CODE (C.M.C.) SECTION 1005.
7. ALL SHEET METAL DUCTS SHALL BE INSULATED BY MEANS OF FOIL WRAP, 3/4 LB. DENSITY FIBERGLASS INSULATION. INSULATION SHALL BE UL LISTED.
8. THERMOSTATS SHALL BE LOCATED AT 4' - 0" ABOVE FINISHED FLOOR (46" MAX. IF MOUNTED OVER CASEWORK OR OTHER OBSTRUCTION) IN ACCORDANCE WITH A.D.A. REQUIREMENTS, UNLESS NOTED OTHERWISE.
9. CONDENSATE DRAIN PIPING SHALL BE COPPER TYPE "L", AND SHALL BE ROUTED TO AN APPROVED RECEPTOR.
10. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.
11. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, I.E. LIGHTS, SPEAKERS, TILES AND SPRINKLER HEADS.
12. ALL SUPPLY DIFFUSERS SHALL HAVE 4-WAY AIR FLOW DISTRIBUTION PATTERNS, UNLESS INDICATED OTHERWISE.
13. COORDINATE FINAL LOCATIONS OF THERMOSTATS WITH TENANT. FIELD COORDINATE LOCATIONS WITH OTHER TRADES INCLUDING ELECTRICAL, TELEPHONE, ETC.
14. FIRE/SMOKE DAMPERS SHALL BE INSTALLED ON ALL DUCTWORK PASSING THROUGH FIRE SEPARATING WALLS, AND SHALL BE INSTALLED AS PER UL LOCAL STATE, AND N.F.P.A. FIRE CODES.
15. ALL ROOF PENETRATIONS, CUTTING, PATCHING, BLOCKOUTS, STRUCTURAL SUPPORT, ROOF OPENINGS, LEVELING OF PRE-FAB CURBS SHALL BE BY GENERAL CONTRACTOR. CONTRACTOR SHALL VERIFY EXACT ROOF OPENING SIZES WITH UNIT MANUFACTURER PRIOR TO START OF WORK AND SHALL MAKE ALL NECESSARY ADJUSTMENTS AT NO EXTRA COST TO OWNER.
16. LOCATION OF ALL MECHANICAL EQUIPMENT SHOWN ARE SCHEMATIC. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATIONS AND REQUIRED SERVICE/MAINTENANCE CLEARANCES PRIOR TO START OF WORK.
17. CONTRACTOR SHALL VERIFY WEIGHTS OF ALL MECHANICAL EQUIPMENT WITH THEIR MANUFACTURER PRIOR TO START OF WORK. IF DIFFERENT THAN THE WEIGHTS INDICATED ON DRAWINGS, CONTRACTOR SHALL INFORM THE STRUCTURAL PORTION OF THE CONTRACT PRIOR TO START OF WORK.
18. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS W/MFR. AND COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE MANUFACTURER PRIOR TO START OF WORK. NOTIFY THE ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCIES, PRIOR TO START OF WORK.
19. ALL HVAC EQUIPMENT, APPLIANCES, AND DUCTWORK SHALL CONFORM TO THE LATEST GUIDELINES OF A.S.A., U.L., N.F.P.A., C.M.C., C.P.C., AND ALL OTHER LOCAL CODES HAVING JURISDICTION.
20. TEST AND BALANCE THE HVAC SYSTEM AS PER REQUIREMENTS OF THE MANDATORY HVAC MEASURES INDICATED ON THIS SHEET.
21. CONTRACTOR SHALL FIELD VERIFY EXACT CEILING SPACE AVAILABLE FOR ROUTING OF DUCT. PRIOR TO START OF WORK, INFORM ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCY OR POTENTIAL CONFLICTS PRIOR TO FABRICATING AND/OR PURCHASE OF ANY DUCTWORK.
22. SEISMIC RESTRAINT OF MECHANICAL DUCTING SHALL MEET THE PROVISIONS OF SMACNA PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS" 1991 OR LATEST EDITION. OSHPO R# 0010.



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GROTH ARCHITECTS, INC.
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

JEFFERSON MS NEW CONSTRUCTION

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P. T. N.
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MAR 28 2005
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4/30/2007
RENEWAL
STATE OF CALIFORNIA

SHEET TITLE
MECHANICAL
SCHEDULES
M-1.1

SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG		LOCATION	CONDENSING UNIT										AIR HANDLING UNIT														REMARKS		
			COOLING SENSIBLE	CAPACITY (BTU/HR)		ELECTRICAL				SEER (EER)	COP	BASIS OF DESIGN	OPER. WT (LBS)	ANCHORAGE DETAIL	TAG	LOCATION	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. S.P. (IN W.G.)	ELECTRICAL				SYSTEM DESIGN ON	OPER. WT. (LBS)	ANCHORAGE DETAIL		FILTERS QUANTITY/ SIZE	
				HEATING	AMB. TEMP	MCA	VOLTS	PH	MAX. FUSE (AMP.)											MCA	MAX. FUSE (AMP.)	VOLTS	PH.						
HP L1	HP L9	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.6	FC L1	FC L9	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L2	HP L10	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.6	FC L2	FC L10	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L3	HP L11	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.5	FC L3	FC L11	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L4	HP L12	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.5	FC L4	FC L12	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L5	HP L13	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.6	FC L5	FC L13	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L6	HP L14	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.5	FC L6	FC L14	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L7	HP L15	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.6	FC L7	FC L15	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011
HP L8	HP L16	ON GRADE	46000 32,000	45500	90°F	20.6	208	3	35	10.2	4.3	CARRIER 389RC048	255	3/MQL-2.5	FC L8	FC L16	MECH. CLOSET	1600	600	0.5	5.4	15	208	1	CARRIER FB4ANFO48	175	2/MQL2.5	1 @ 21-1/2"X19-7/8"	1234567891011

- PROVIDE CARRIER DEBONAIR 250 FLATSTAT THERMOSTAT, CONTROL WIRING, CONDUITS, AND ALL OTHER ACCESSORIES REQUIRED AS PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER FUNCTION OF THE SYSTEM
- PROVIDE REFRIGERANT PIPING & INSULATION, SIZE SHALL BE AS PER MFR'S REQUIREMENT, BASED UPON FINAL DEVELOPED LENGTH. PROVIDE FULL REFRIGERANT CHARGE FOR THE ENTIRE SYSTEM. SEE MANUFACTURER'S INSTALLATION MANUAL FOR PROPER CHARGE QUANTITY, PRESSURE, ETC.
- FOR CONDENSATE DRAIN PIPING, SEE PLUMBING DRAWINGS.
- FOR CONTROL DIAGRAM SEE 7/M3-2.
- PROVIDE ADJUSTABLE FAN SPEED.
- PROVIDE ALL ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS INCLUDING: LIQUID SOLENOID VALVE, LIQUID LINE FILTER/DRYER, SIGHT GLASS, MOISTURE INDICATOR, AND OUTDOOR UNIT CYCLE PROTECTOR.
- PROVIDE COPPER FIN AND COPPER TUBES FOR CONDENSING UNIT COILS.
- STACKED CONDENSING UNITS USING FACTORY SUPPLIED STACKING KIT. SEE DETAIL 3/MQL-2.5.
- PROVIDE UVC-1. SEE SCHEDULE ON M-1.2.
- PROVIDE ALL ACCESSORIES REQUIRED FOR LONG LINE APPLICATION.
- PROVIDE UL900 CLASS 1 OR CLASS 2 PLATEAU MEDIA FILTER 30 PERCENT EFFICIENCY.
- PROVIDE ALL ACCESSORIES REQUIRED FOR LONG LINE APPLICATION.

PACKAGED HEAT PUMP UNIT SCHEDULE

TAG	LOCATION	NOMINAL CAP. @ ARI COND. (TONS)	SUPPLY FAN				COMP'R(S) COND'R FAN(S)				(SEER) EER	UNITS POWER SUPPLY				COOLING (MBH)		AIR TEMPS(°F)			HEATING		FILTERS		UNIT DISCHARGE		CURB MOUNT (YES/NO)	SYSTEM DESIGNED ON		REMARKS	OPER. WT. (LBS.)	
			CFM @ FT. ALT.	O.A. CFM	EXT. S.P. (IN. W.C.)	FLA	NO.	LRA	NO.	FLA (TOTAL)		NO.	LRA	NO.	FLA (TOTAL)	NO.	ORC. AMPS	MAX. RISE SIZE	V	PH.	SENSIBLE	TOTAL	E.D.B.	E.W.B.	A.M.B.	G.O.P. (HSPF)		CAP. (MBH)	NO./SIZE			TYPE
HP N1	ROOF	1-1/2	600	100	0.5	--	1	48	1	--	10		14	20	208	1	14.9	19	80	67	95	(2.9)	16	1 @ 20"X20"X1"	①	YES	NO	YES	CARRIER	50J8018	①②③④⑤⑥⑦	400
HP N2	ROOF	1-1/2	600	100	0.5	--	1	48	1	--	10		14	20	208	1	14.9	19	80	67	95	(2.9)	16	1 @ 20"X20"X1"	①	YES	NO	YES	CARRIER	50J8018	①②③④⑤⑥⑦	400

- 1-INCH THROWAWAY
- PROVIDE 8" ROOF CURB.
- PROVIDE PROGRAMMABLE THERMOSTAT (CARRIER MODEL # 33C8250), CONTROL WIRING AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR PROPER FUNCTION OF SYSTEM
- PROVIDE FILTER KIT & OUTSIDE AIR HOOD.
- FIELD VERIFY EXACT ELECTRICAL LOADS, VOLTAGE AND PHASE WITH MANUFACTURER AND COORDINATE WITH ELEC. CONTRACTOR PRIOR TO START OF WORK.
- FOR MOUNTING SEE DETAIL 1/M3.1
- PROVIDE COPPER FIN & TUBES FOR CONDENSING COILS.

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	MAKE	DESC	TYPE	FRAMING	MODEL	OBD (Y/N)	REMARK
A	TITUS	SUPPLY	PLENUM SLOT DIFFUSER	T-BAR	TBD-10	N	1 3 4
B	TITUS	RETURN	PLENUM SLOT DIFFUSER	T-BAR	MLR-39	N	1 3 5
C	TITUS	SUPPLY	PLENUM SLOT DIFFUSER	SURFACE	TBD-10	Y	1 2 3 9
D	TITUS	SUPPLY	DIFFUSER	SURFACE	PMC 300RL	N	7 9
E	TITUS	RELIEF	EGGCRATE CEILING	T-BAR	50F	N	
F	TITUS	SUPPLY	PERFORATED DIFFUSER	T-BAR	PMC	N	
G	TITUS	RETURN	PERFORATED GRILLE	T-BAR	PAR	N	7
H	TITUS	RETURN/RELIEF	CEILING	SURFACE	350RL	N	8 9
J	SHOEMAKER	EXHAUST	WALL LOUVER/ BACKDRAFT DAMPER	SURFACE	3550	N	6 8
K	TITUS	SUPPLY	CEILING	SURFACE	MCD	N	9

- PROVIDE FACTORY FABRICATED SHEET METAL PLENUM
- PROVIDE 2-SLOT, 1 1/2" SLOT, OVAL-TO-ROUND ADAPTER, FACTORY INSTALLED BLADES FOR TWO-WAY THROW
- PROVIDE OVAL-TO-ROUND NECK ADAPTOR, SEE 3/M-3.2.
- PROVIDE 2-SLOT, 1 1/2" SLOT, 48" LENGTH FACTORY INSTALLED BLADES FOR 2-WAY THROW (UNLESS NOTED OTHERWISE ON FLOORPLAN), T-BAR FRAME, AND T-BAR CENTER STRIP.
- 4-SLOT, 48" LENGTH, T-BAR FRAME
- INTERNAL ADJUSTABLE COUNTER BALANCE DAMPER.
- STEEL GRILLE
- PROVIDE FINISH W/ PROTECTION FOR COASTAL CONDITIONS
- PROVIDE "YOUNG REGULATOR" WITH RECESSED SLEEVE AND ESCHUTCHON COVER TO MATCH ADJACENT ARCHITECTURAL FINISHES.

EXHAUST FAN SCHEDULE

TAG	CONTROL	MFR. MODEL	CFM	E.S.P. (IN. W.G.)	HP (WATTS)	SONES	POWER	OPER. WEIGHT (LBS.)	ANCHORAGE DETAIL	REMARKS
EF L1	LIGHT SWITCH	COOK GC-140	130	0.2	(62)	2.9	120	15	4/M3.2	1
EF L2	T-STAT	COOK GC-620	400	0.25	(233)	3.3	120	35	4/M3.2	1 5
EF L3	T-STAT	COOK 135 ACES	1150	0.25	1/4	6.5	120	60	7/M3.1	5 6
EF L4	LIGHT SWITCH	COOK GC-620	400	0.30	(233)	3.3	120	35	4/M3.2	1 7
EF L5	LIGHT SWITCH	COOK GC-720	400	0.75	(233)	3.3	120	36	4/M3.2	2 7
EF L6	LIGHT SWITCH	COOK GC-180	200	0.5	(155)	2.9	120	16	4/M3.2	2
EF N1	TIME CLOCK	COOK 210-ACW-B	4200	0.375	3/4	11.3	208	210	5/M3.2	3
EF N2	TIME CLOCK	COOK 210-ACW-B	4200	0.375	3/4	11.3	208	210	5/M3.2	3
EF N3	TIME CLOCK	COOK 120-ACRU-B	840	0.375	1/6	6.5	120	55	7/M3.1	4
EF N4	TIME CLOCK	COOK 100-ACRU-B	400	0.2	1/4	4.3	120	30	7/M3.1	3 4
EF P1	LIGHT SWITCH	COOK GC-140	130	0.2	(62)	2.9	120	15	4/M3.2	2 7

- PROVIDE WITH DISCONNECT, WHITE ALUMINUM GRILLE, BACKDRAFT DAMPER AND SPRING TYPE VIBRATION ISOLATORS.
- PROVIDE WITH STANDARD DISCONNECT, ROOF CAP W/BIRDSCREEN AND SPRING TYPE VIBRATION ISOLATORS.
- PROVIDE PROGRAMMABLE TIMER, BACKDRAFT DAMPER AND BIRDSCREEN, PROVIDE CONDUIT, WIRING AND ALL ACCESSORIES REQUIRED.
- PROVIDE PREFABRICATED FACTORY ROOF CURB, PROGRAMMABLE TIMER, BACKDRAFT DAMPER AND BIRDSCREEN. FOR CONTROL DIAGRAM SEE DETAIL 5/M3.1.
- PROVIDE LINE VOLTAGE TSTAT, CONDUIT, WIRING, & ALL ACCESSORIES, SEE 5/M3.1.
- PROVIDE FACTORY ROOF CURB, BACKDRAFT DAMPER, & DISCONNECT.
- SEE ELECTRICAL DRAWINGS FOR LIGHT SWITCH INTERLOCK AND LOCATION.

UVC EMITTER SCHEDULE

TAG	SERVICE	MANUFACTURER	POWER	V	PH	REMARKS
UVC 1	SPLIT SYSTEM UNITS	CARRIER	80W	115	1	1 2 3 4 5 6
UVC 2	PACKAGED ROOFTOP UNITS	CARRIER	80W	115	1	1 2 3 4 5 6

- INCLUDE LIGHTS, POWER SUPPLY, MOUNTING PACKAGE, CLEANING KIT
- PROVIDE DOOR SWITCH
- 24 HR OPERATION OF LAMP
- INSTALL IN HEAT PUMP FAN COIL UNIT AS PER MANUFACTURER'S RECOMMENDATION.
- PROVIDE 3-PRONG ELECTRICAL CONNECTOR FOR PLUG-IN AT WALL SOCKET MECHANICAL CLOSET.
- PROVIDE (1) UVC EMITTER FOR EACH FAN COIL UNIT. SEE SCHEDULES ON SHEET M-1.2.

BOOSTER FAN SCHEDULE

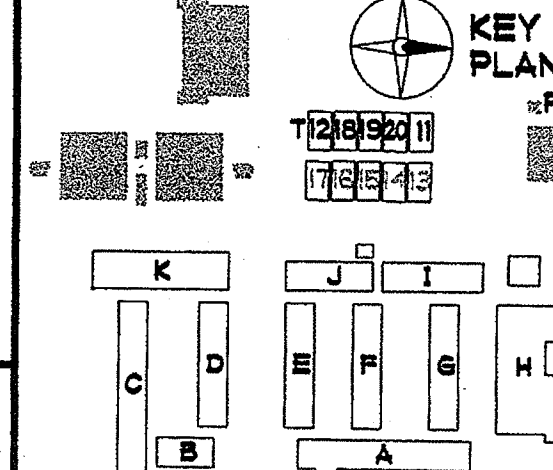
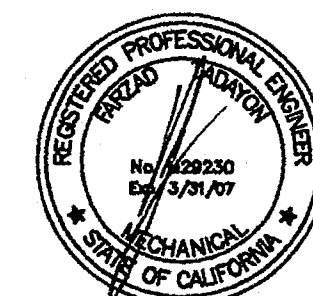
TAG	CTRL	MANUFACTURER	CFM	ESP	WATTS	POWER	WEIGHT
BF L1	1	FANTECH DBF-110	50	0.2	60	120-1PH	15

- INTERLOCK WITH ELECTRIC DRYER.

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com

T-SQUARED
PROFESSIONAL ENGINEERS, INC.

#04036
03/18/2005



JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054

PHONE 760-754-8191
FAX 760-754-8291

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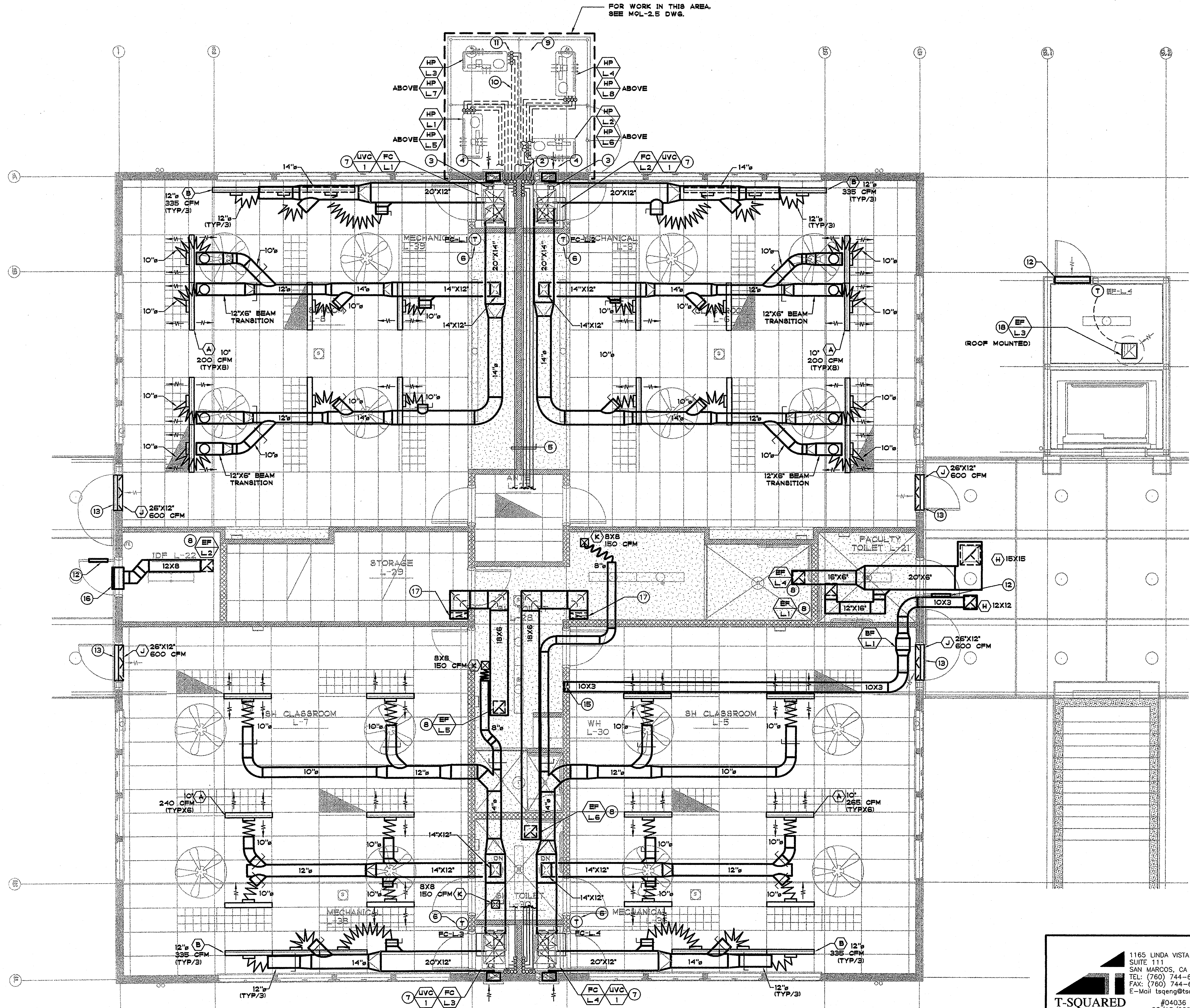
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REGISTERED ARCHITECT
JOHN SCOTT GROTH
C-26609
4/30/2007 RENEWAL

SHEET TITLE

MECHANICAL SCHEDULES

M-1.2



KEY NOTES

- FOR TYPICAL DUCT TAKEOFF DETAIL, SEE 2/M-3.1.
- REFRIGERANT LINE SET PIPING (WITH INSULATION AND STAINLESS STEEL JACKET) DOWN AND RUN ABOVE GRADE TO CORRESPONDING CONDENSING UNIT. SEE DETAIL 9/M-3.1 (TYPICAL OF 8).
- FOR PRIMARY & SECONDARY CONDENSATE DRAINS, SEE PLUMBING DRAWINGS.
- 24"X18" OUTDOOR AIR INTAKE LOUVER WITH BIRDSCREEN (BY OTHERS) SEE ELEVATION ON 5/MOL-2.5.
- REFRIGERANT LINE SET PIPING ABOVE CEILING. SUPPORT AS PER SMACNA. ROUTE TO CORRESPONDING FAN COIL UNIT.
- PROPOSED THERMOSTAT LOCATION. VERIFY EXACT LOCATION WITH ARCH. & OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SEE MOUNTING DETAIL 2/M-3.2.
- FOR TYPICAL FAN COIL UNIT CONTROL DIAGRAM DETAIL, SEE 7/M-3.2.
- FOR TYPICAL EXHAUST FAN CONTROL DIAGRAM DETAIL, SEE 5/M-3.1. FOR TYPICAL EXHAUST FAN MOUNTING DETAIL, SEE 4/M-3.2.
- TYPICAL MANUFACTURER'S CLEARANCE REQUIREMENTS.
- REFRIGERANT LINE SET PIPING THRU WALL TO ABOVE GRADE. SEE DETAIL 8/M-3.1 (TYPICAL/8).
- REFRIGERANT PIPING ABOVE GRADE. CONNECT PIPING TO CORRESPONDING HEAT PUMP UNIT. SEAL OPENING WEATHERTIGHT.
- 18"X14" LOW DOOR LOUVER. SEE DOOR SCHEDULE ON ARCH'L PLANS.
- 26"X12" RELIEF AIR LOUVER WITH BIRDSCREEN, MOUNTED ABOVE DOOR (BY OTHERS), WITH INTERNAL ADJUSTABLE COUNTER BALANCE BACKDRAFT DAMPER.
- EXHAUST FAN CONTROL BY LINE VOLTAGE THERMOSTAT SET AT 83°F. SEE DIAGRAM 5/M-3.1.
- 3' X 10' DRYER DUCT WITH ACCESSIBLE CLEANOUT DOOR. ROUTE TO ABOVE CEILING.
- 22' X 8' WALL EXHAUST LOUVER W/ BIRDSCREEN. SEE ARCH DRAWINGS FOR SCHEDULE AND DETAILS.
- 18' X 6' EXHAUST DUCT UP THRU FLOOR IN SHAFT TO ROOF CAP. SEE MOL-2.3 FOR CONTINUATION.
- PROVIDE 18"X18" EXHAUST PLENUM WITH GRILLE AT BOTTOM INTO ELEV. EQUIP. ROOM, SEE DETAIL 7/M-3.1.

BUILDING L FIRST FLOOR PLAN SOUTH - MECHANICAL

1/4" = 1'-0"

T-SQUARED
PROFESSIONAL ENGINEERS, INC.

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com

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03/18/2005

KEY PLAN

MECHANICAL
BLDG L SOUTH
1ST FLOOR PLAN

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GROTH ARCHITECTS, INC.
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

JEFFERSON MS NEW CONSTRUCTION

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P. T. N. 73569-9
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REVISIONS

CLUSD NO. 758-000

PHONE 760-754-8191
FAX 760-754-8291

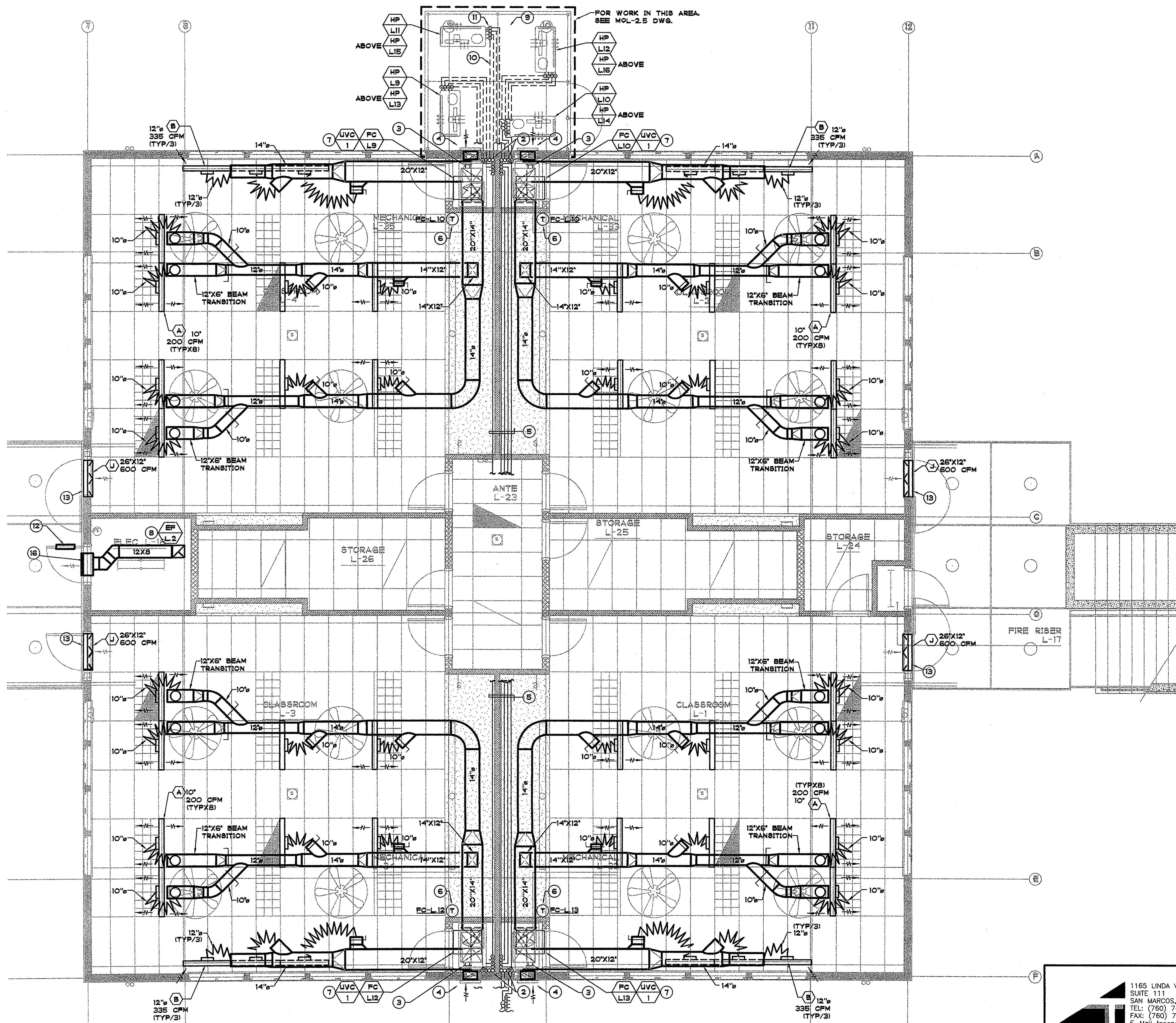
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JOHN SCOTT GROTH
C-26609
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RENEWAL
STATE OF CALIFORNIA

SHEET TITLE

MOL-2.1



KEY NOTES

- 1 FOR TYPICAL DUCT TAKEOFF DETAIL, SEE 2/M-3.1.
- 2 REFRIGERANT LINE SET PIPING (WITH INSULATION AND STAINLESS STEEL JACKET) DOWN AND RUN ABOVE GRADE TO CORRESPONDING CONDENSING UNIT. SEE DETAIL 9/M-3.1 (TYPICAL OF 8).
- 3 FOR PRIMARY & SECONDARY CONDENSATE DRAINS, SEE PLUMBING DRAWINGS.
- 4 24"X18" OUTDOOR AIR INTAKE LOUVER WITH BIRDSCREEN (BY OTHERS SEE ELEVATION ON 5/MOL-2.5).
- 5 REFRIGERANT LINE SET PIPING ABOVE CEILING. SUPPORT AS PER SMACNA. ROUTE TO CORRESPONDING FAN COIL UNIT.
- 6 PROPOSED THERMOSTAT LOCATION. VERIFY EXACT LOCATION WITH ARCH. & OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SEE MOUNTING DETAIL 2/M-3.2.
- 7 FOR TYPICAL FAN COIL UNIT CONTROL DIAGRAM DETAIL, SEE 7/M-3.2.
- 8 FOR TYPICAL EXHAUST FAN CONTROL DIAGRAM DETAIL, SEE 5/M-3.1. FOR TYPICAL EXHAUST FAN MOUNTING DETAIL, SEE 4/M-3.2.
- 9 TYPICAL MANUFACTURER'S CLEARANCE REQUIREMENTS.
- 10 REFRIGERANT LINE SET PIPING THRU WALL TO ABOVE GRADE. SEE DETAIL 8/M3.1 (TYPICAL/8).
- 11 REFRIGERANT PIPING ABOVE GRADE. CONNECT PIPING TO CORRESPONDING HEAT PUMP UNIT. SEAL OPENING WEATHERTIGHT.
- 12 18"X14" LOW DOOR LOUVER. SEE DOOR SCHEDULE ON ARCH'L PLANS.
- 13 26"X12" RELIEF AIR LOUVER WITH BIRDSCREEN, MOUNTED ABOVE DOOR (BY OTHERS), WITH INTERNAL ADJUSTABLE COUNTER BALANCE BACKDRAFT DAMPER.
- 14 EXHAUST FAN CONTROL BY LINE VOLTAGE THERMOSTAT SET AT 83°F. SEE DIAGRAM 5/M3.1.
- 15 3' X 10' DRYER DUCT WITH ACCESSIBLE CLEANOUT DOOR. ROUTE TO ABOVE CEILING.
- 16 22" X 8" WALL EXHAUST LOUVER W/ BIRDSCREEN. SEE ARCH DRAWINGS FOR SCHEDULE AND DETAILS.

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DATE 7/3/05
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OCEANSIDE, CA 92054
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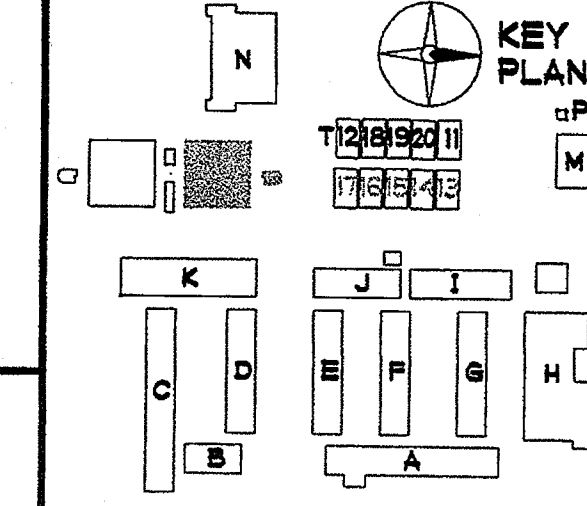
GROTH ARCHITECTS, INC.
3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291

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OFFICE OF REGULATION SERVICES
4-106494
DATE 3/3/2005

LICENSED ARCHITECT
JOHN SCOTT GROTH
C-26609
4/30/2007
RENEWAL
STATE OF CALIFORNIA

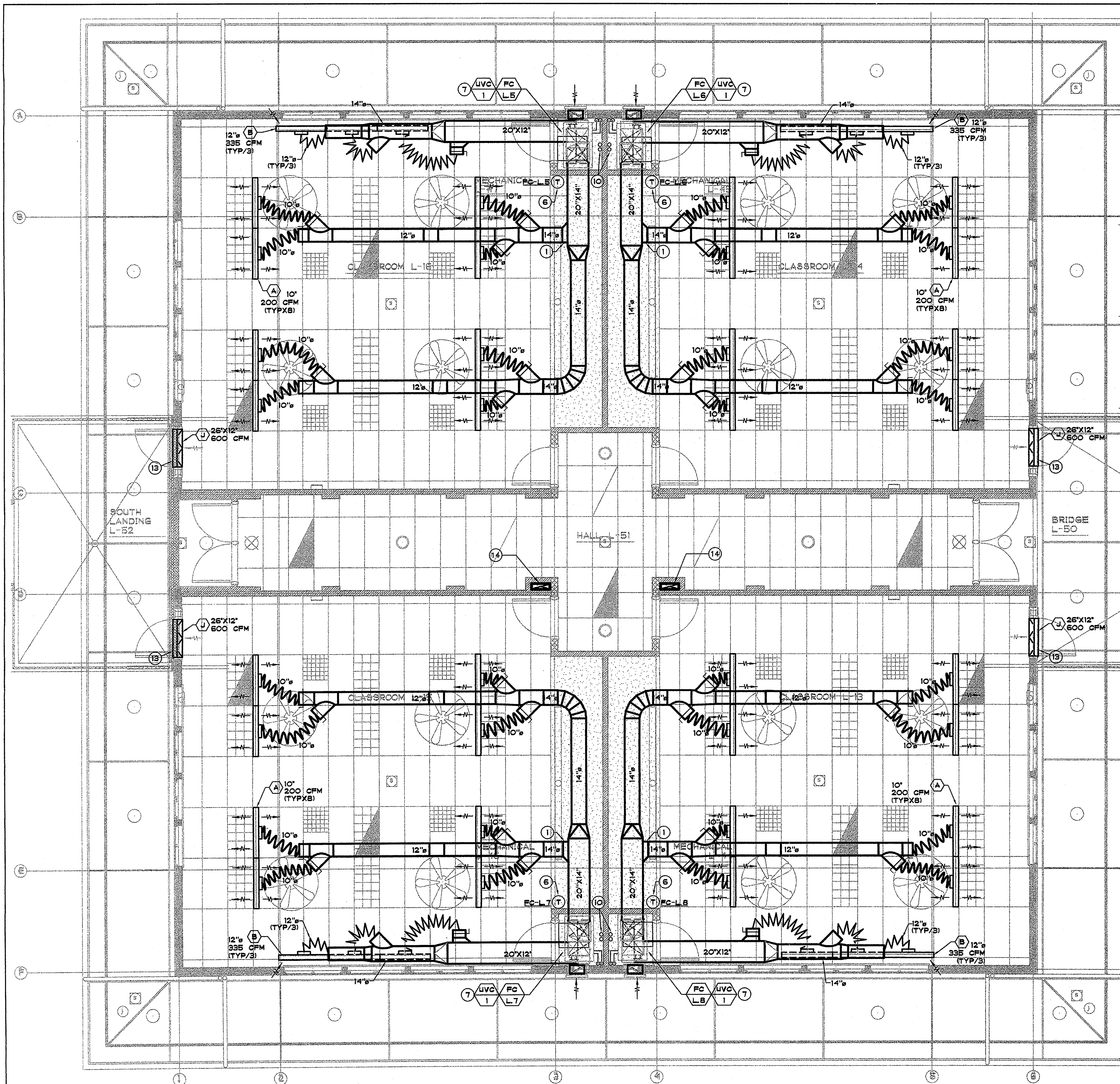
MECHANICAL
BLDG 'L' NORTH
1ST FLOOR PLAN
MOL-2.2

T-SQUARED
PROFESSIONAL ENGINEERS, INC.
1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
#04036
03/18/2005



BUILDING L FIRST FLOOR PLAN NORTH - MECHANICAL

1/4" = 1'-0"



BUILDING L SECOND FLOOR PLAN SOUTH - MECHANICAL
1/4" = 1'-0"

KEY NOTES

- 1 FOR TYPICAL DUCT TAKEOFF DETAIL, SEE 2/M-3.1.
- 2 REFRIGERANT LINE SET PIPING (WITH INSULATION AND STAINLESS STEEL JACKET) DOWN TO 1ST FLOOR.
- 3 FOR PRIMARY & SECONDARY CONDENSATE DRAINS, SEE PLUMBING DRAWINGS.
- 4 24"X18" OUTDOOR AIR INTAKE LOUVER WITH BIRDSCREEN (BY GENERAL CONTRACTOR), PROVIDE 24"X18" MOTORIZED DAMPER OPEN TO MECHANICAL ROOM (BY MECHANICAL CONTRACTOR).
- 5 NOT USED
- 6 PROPOSED THERMOSTAT LOCATION. VERIFY EXACT LOCATION WITH ARCH. & OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SEE MOUNTING DETAIL 2/M-3.2.
- 7 FOR TYPICAL FAN COIL UNIT CONTROL DIAGRAM DETAIL, SEE 7/M-3.2.
- 8 FOR TYPICAL EXHAUST FAN CONTROL DIAGRAM DETAIL, SEE 5/M-3.1. FOR TYPICAL EXHAUST FAN MOUNTING DETAIL, SEE 4/M-3.2.
- 9 TYPICAL MANUFACTURER'S CLEARANCE REQUIREMENTS.
- 10 6" PVC WITH REFRIGERANT LINE SET PIPING BELOW GRADE FROM BELOW (TYP. OF 4 LOCATIONS).
- 11 NOT USED
- 12 18"X14" LOW DOOR LOUVER, SEE DOOR SCHEDULE ON ARCH'L PLANS.
- 13 26"X12" RELIEF AIR LOUVER WITH BIRDSCREEN, MOUNTED ABOVE DOOR (BY GENERAL CONTRACTOR), WITH INTERNAL ADJUSTABLE COUNTER BALANCE BACKDRAFT DAMPER.
- 14 18" X 6" EXHAUST DUCT RISER FROM BELOW, SEE MOL-2.1 RISE TO ROOF CAP, SEE DETAIL 4/M3.1.

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2000 S. MAIN STREET, SUITE 100
OCEANSIDE, CA 92054
PHONE 760-754-8191
FAX 760-754-8291

PROJECT NOS.
025
P. T. N.
73569-9
DATE
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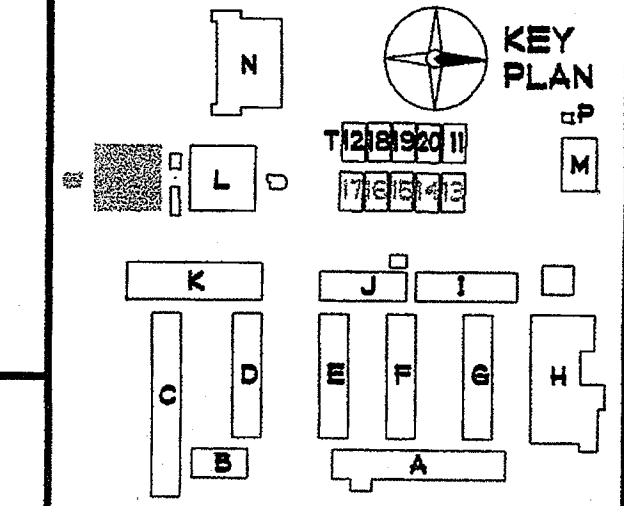
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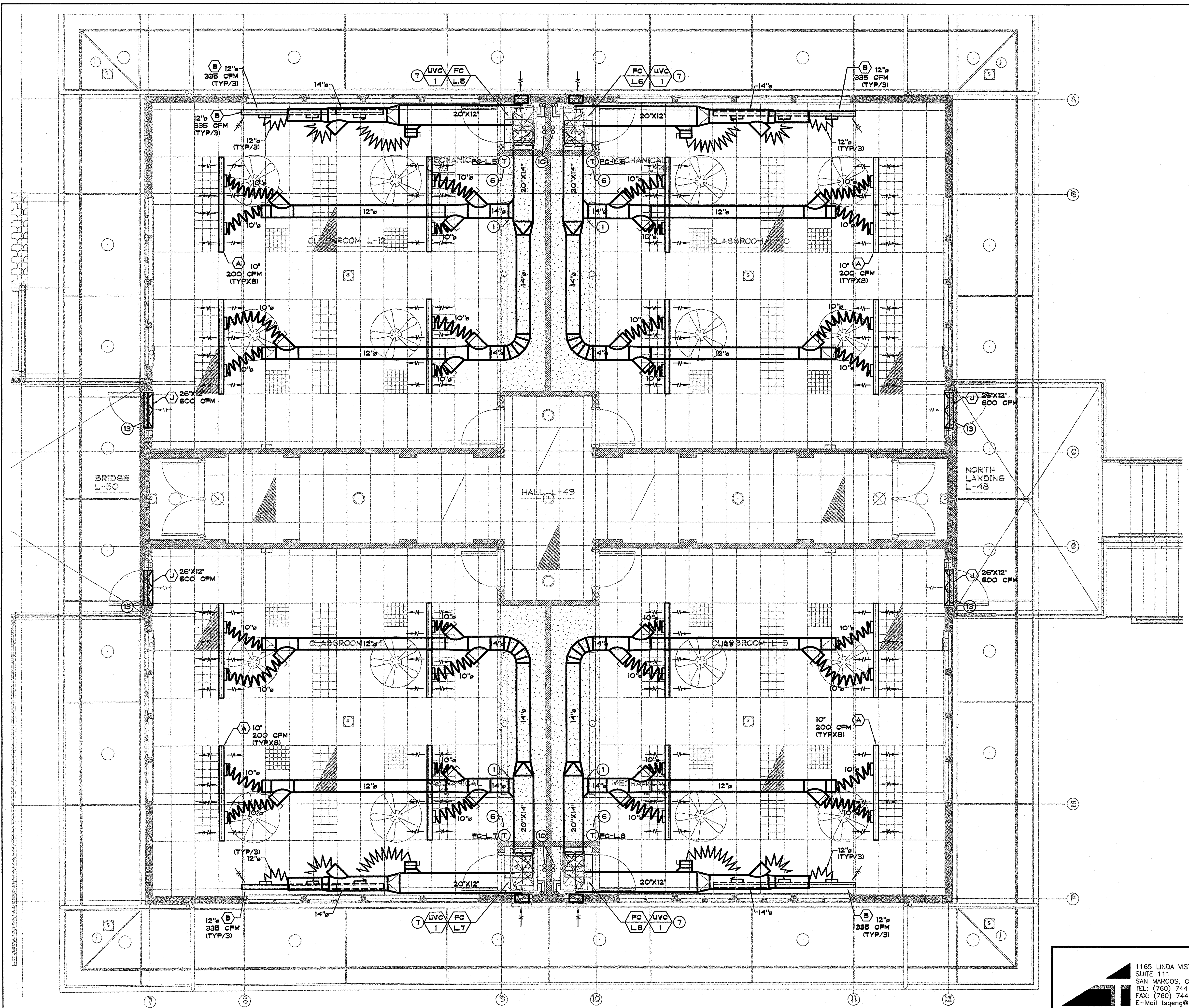
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C-26609
4/30/2007
RENEWAL
STATE OF CALIFORNIA

SHEET TITLE
MECHANICAL
BLDG "L" SOUTH
2ND FLOOR PLAN
MOL-2.3

T-SQUARED
PROFESSIONAL ENGINEERS, INC.
1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
#04036
03/18/2005





BUILDING L SECOND FLOOR PLAN NORTH - MECHANICAL
 1/4" = 1'-0"

KEYNOTES

- FOR TYPICAL DUCT TAKEOFF DETAIL, SEE 2/M-3.1.
- REFRIGERANT LINE SET PIPING (WITH INSULATION AND STAINLESS STEEL JACKET) DOWN TO 1ST FLOOR.
- FOR PRIMARY & SECONDARY CONDENSATE DRAINS, SEE PLUMBING DRAWINGS.
- 24"x12" OUTDOOR AIR INTAKE LOUVER WITH BIRDSCREEN (BY GENERAL CONTRACTOR). PROVIDE 24"x12" MOTORIZED DAMPER OPEN TO MECHANICAL ROOM (BY MECHANICAL CONTRACTOR).
- NOT USED
- PROPOSED THERMOSTAT LOCATION. VERIFY EXACT LOCATION WITH ARCH. & OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SEE MOUNTING DETAIL 2/M-3.2.
- FOR TYPICAL FAN COIL UNIT CONTROL DIAGRAM DETAIL, SEE 7/M-3.2.
- FOR TYPICAL EXHAUST FAN CONTROL DIAGRAM DETAIL, SEE 5/M-3.1. FOR TYPICAL EXHAUST FAN MOUNTING DETAIL, SEE 4/M-3.2.
- TYPICAL MANUFACTURER'S CLEARANCE REQUIREMENTS.
- 6" PVC WITH REFRIGERANT LINE SET PIPING BELOW GRADE (TYPICAL/S).
- 6" PVC UP FROM BELOW GRADE. CONNECT PIPING TO CORRESPONDING HEAT PUMP UNIT. SEAL OPENING WEATHERTIGHT.
- 18"x14" LOW DOOR LOUVER. SEE DOOR SCHEDULE ON ARCH'L PLANS.
- 26"x12" RELIEF AIR LOUVER WITH BIRDSCREEN. MOUNTED ABOVE DOOR (BY GENERAL CONTRACTOR), WITH INTERNAL ADJUSTABLE COUNTER BALANCE BACKDRAFT DAMPER.

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GROTH ARCHITECTS, INC.
 3355 MISSION AVE. SUITE 234
 OCEANSIDE, CALIFORNIA 92054
 PHONE 760-754-8191
 FAX 760-754-8291

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JOHN SCOTT GROTH
 C-26609
 4/30/2007 RENEWAL
STATE OF CALIFORNIA

SHEET TYPE
 MECHANICAL
 BLDG "L" NORTH
 2ND FLOOR PLAN

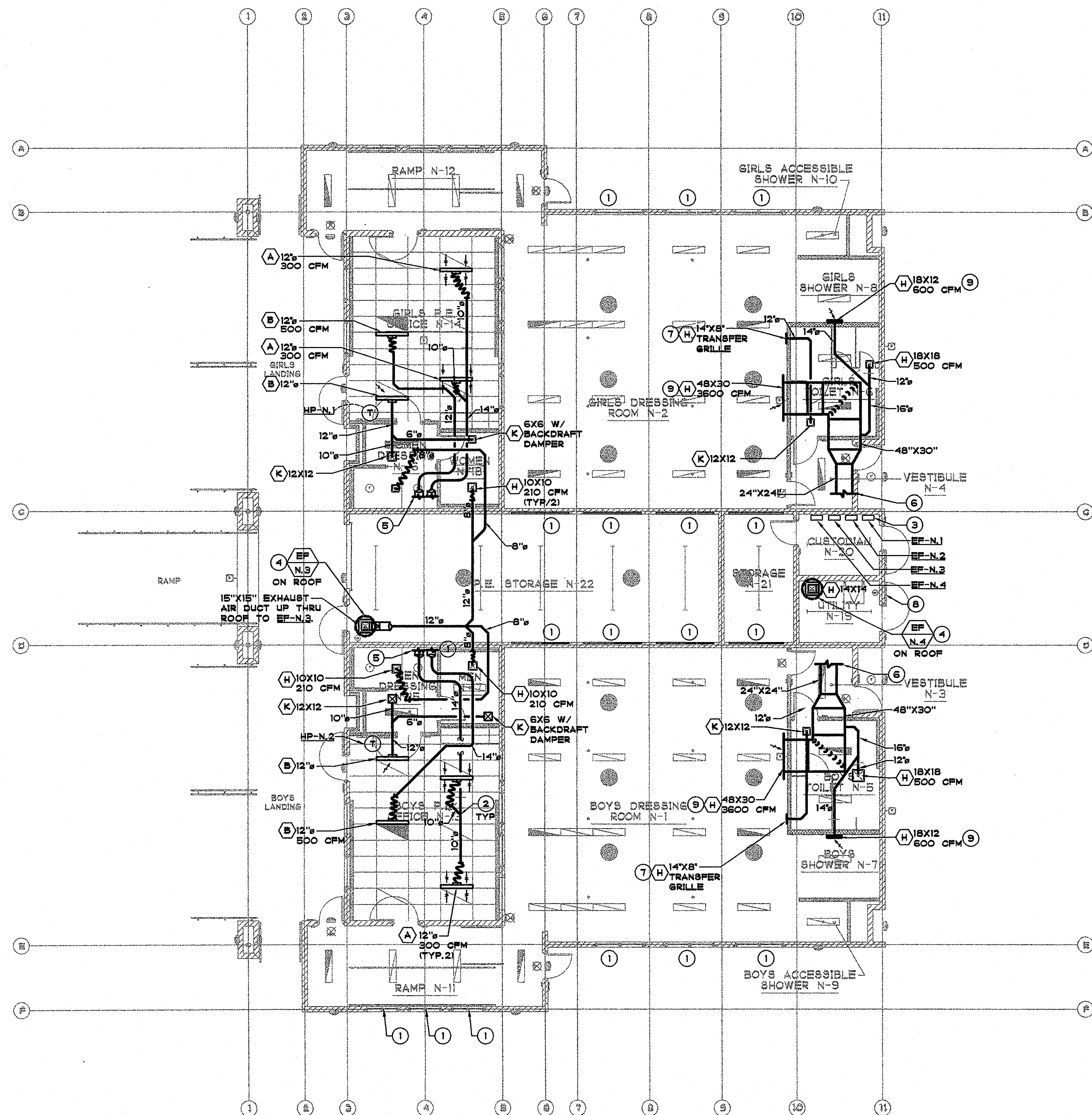
MOL-2.4

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 SUITE 111
 SAN MARCOS, CA 92069
 TEL: (760) 744-6718
 FAX: (760) 744-6738
 E-Mail: tsqeng@tsqeng.com

#04036
 03/18/2005

REGISTERED PROFESSIONAL ENGINEER
NO. 002230
EXP. 3/31/07
MECHANICAL
STATE OF CALIFORNIA

KEY PLAN



BUILDING N FLOOR PLAN - MECHANICAL

1/4" = 1'-0"

KEYNOTES

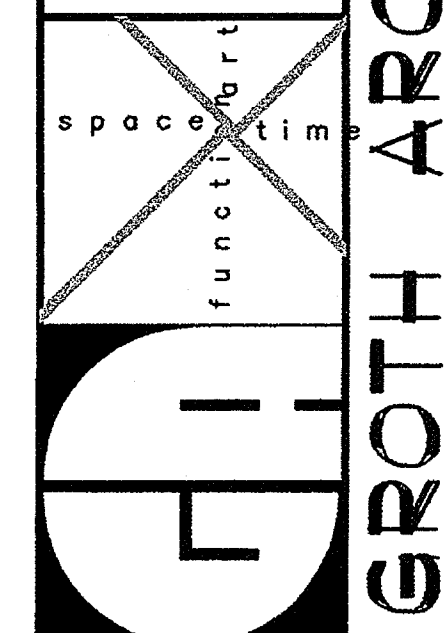
- MAKE-UP AIR LOUVER FOR DIMENSION AND LOCATION SEE ARCHITECTURAL DRAWINGS.
- FOR DUCT TAKE OFF SEE DETAIL M3.1
- LOCATION OF PROG. TIMERS FOR EXHAUST FANS.
- FOR EXHAUST FAN SCHEDULE SEE DRAWING SHEET M-1.2. PROVIDE 14" X 14" EXHAUST GRILLE TO DUCT THRU ROOF.
- SA & RA DUCTS THRU PARAPET WALL ABOVE TO HP UNITS. TRANSITION TO ROUND DUCT AT ABOVE CEILING LOCATIONS. FOR CONTINUATION, SEE MN-2.2.
- EXHAUST DUCTS THRU PARAPET WALL ABOVE TO WALL MOUNTED FAN, SEE MN-2.2 FOR CONTINUATION.
- MOUNT TRANSFER GRILLE TO 12'-0" ABOVE ADJACENT TOILET ROOM CEILING. ROUTE TRANSFER DUCT TO DIFFUSER.
- 18"X14" DOOR LOUVER, SEE ARCH. DWG'S FOR TYPE AND LOCATION.
- MOUNT GRILLE TO 12'-0" ABOVE FINISHED FLOOR.

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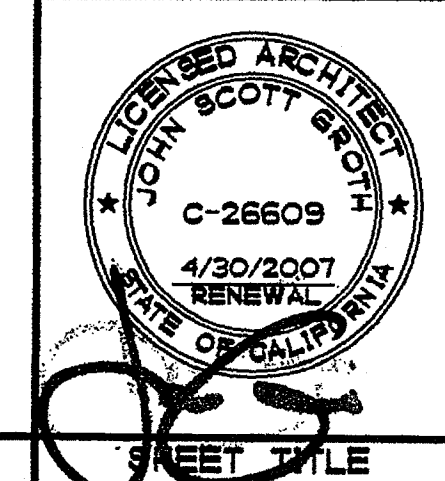
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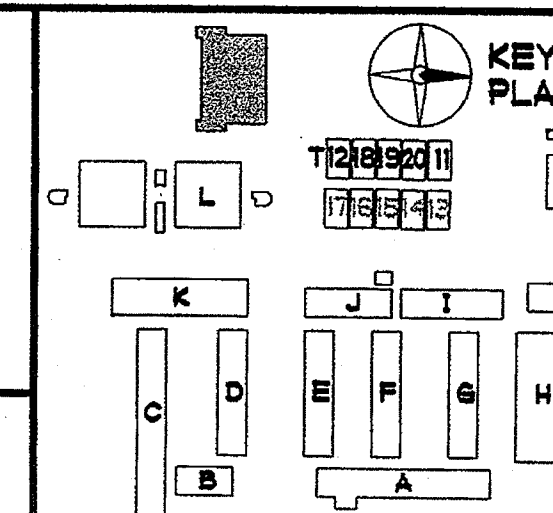
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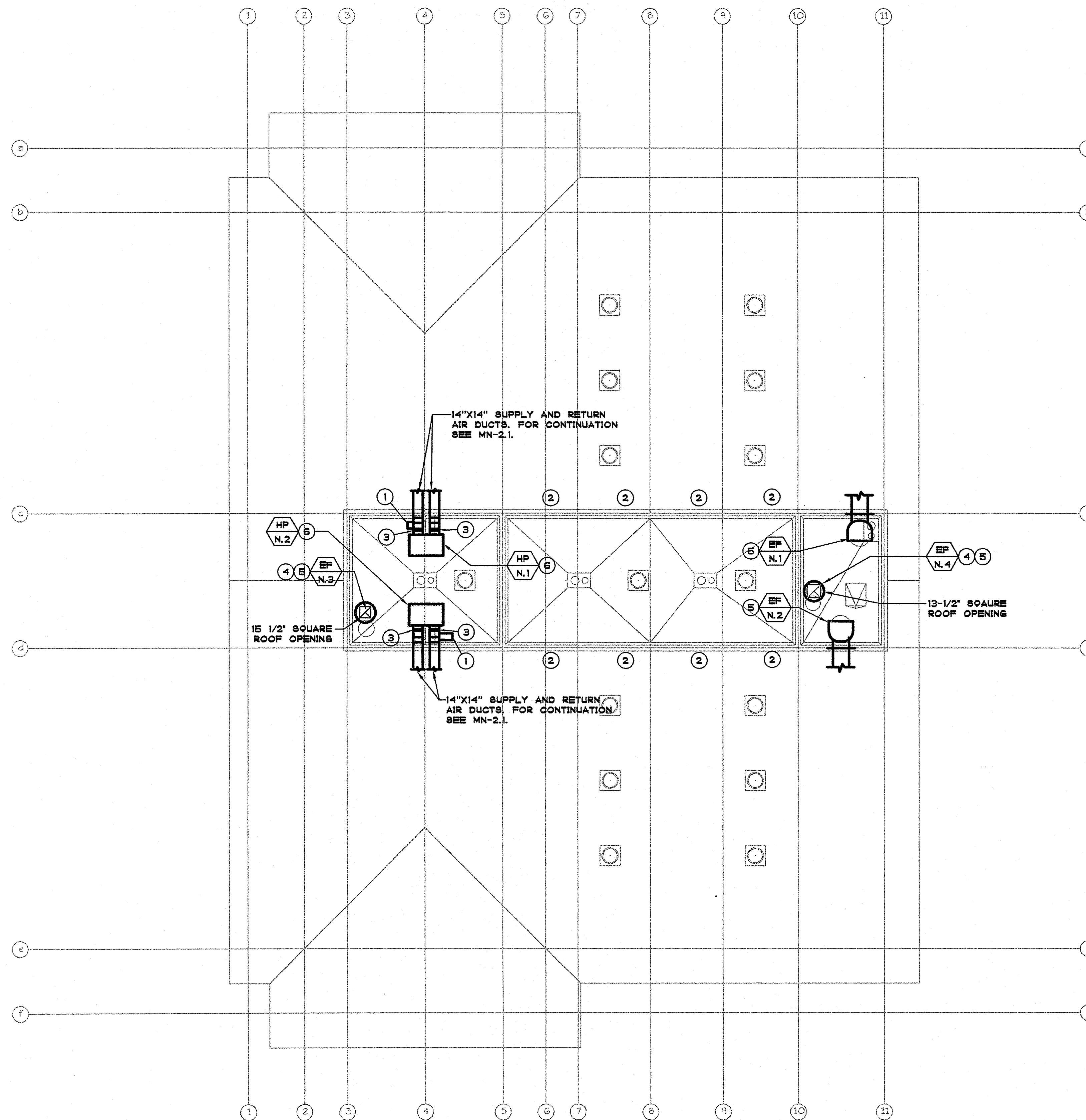


SHEET TITLE
BUILDING N
FLOOR PLAN -
MECHANICAL

MN-2.1

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
#04036
03/18/2005





BUILDING N ROOF PLAN - MECHANICAL
1/8" = 1'-0"

KEYNOTES

- ① OUTSIDE AIR HOOD, LOCATE 10'-0" FROM ALL VENTS/EXHAUST.
- ② MAKE-UP AIR LOUVER FOR DIMENSION AND LOCATION SEE ARCHITECTURAL DRAWINGS.
- ③ OUTDOOR TYPE FLEXIBLE CONNECTION.
- ④ UPBLAST FAN MOUNTED ON FACTORY CURB. FAN OUTLET SHALL BE LOCATED MIN. 10'-0" FROM OUTDOOR AIR INTAKE OF HEAT PUMP UNIT. FOR DETAILS SEE 7/M3.1. VERIFY ROOF OPENING SIZE WITH MANUFACTURER PRIOR TO START OF WORK.
- ⑤ FOR EXHAUST FAN SCHEDULE. SEE DRAWING SHEET M-1.3.
- ⑥ FOR PACKAGED HEAT PUMP UNIT SCHEDULE. SEE DRAWING SHEET M-1.2.

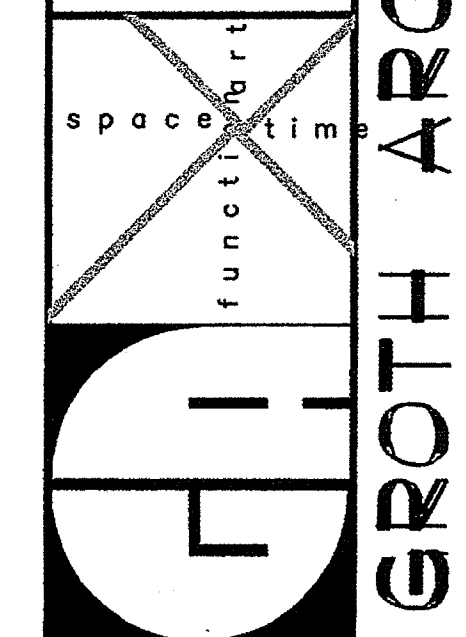
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OCEANSIDE, CALIFORNIA 92054
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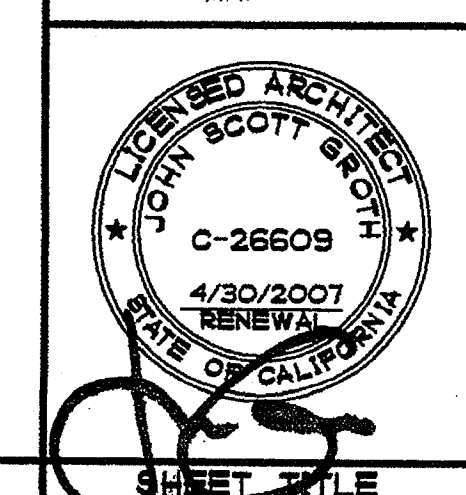
QUAD NO.
758-000
PROJECT NOS.
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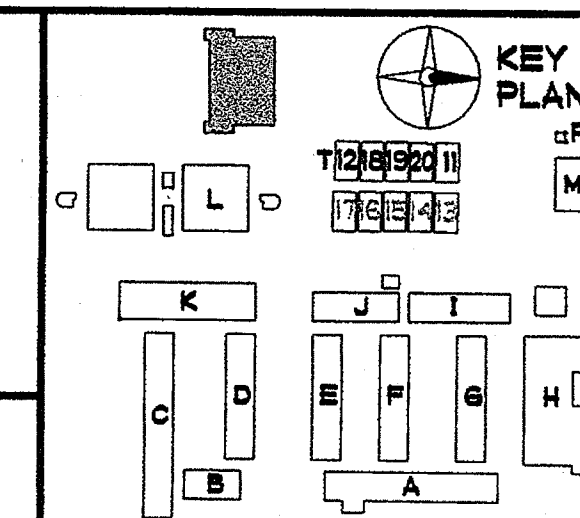


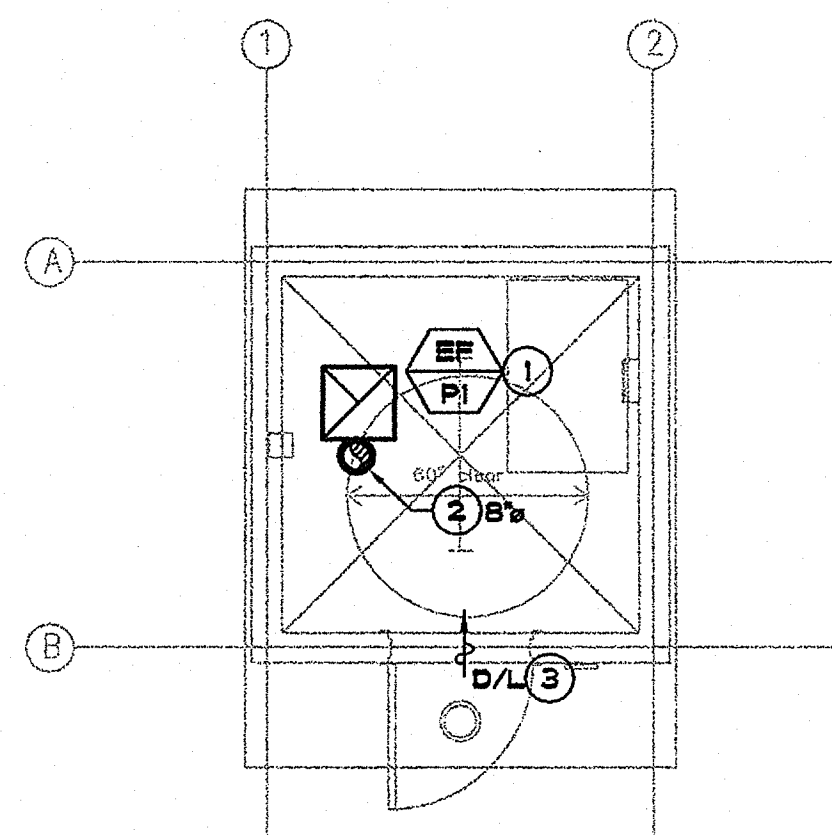
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DATE MAR 28 2005



**BUILDING N
FLOOR PLAN -
MECHANICAL**
MN-2.2

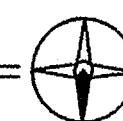
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1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
#04036
03/18/2005





BUILDING P FLOOR PLAN - MECHANICAL

1/4" = 1'-0"



KEYNOTES

- CEILING MOUNTED EXHAUST FAN. PROVIDE FLEX CONNECTOR AT OUTLET OF FAN. FOR CONTROL DIAGRAM, SEE DETAIL 5/M3.1.
- EXHAUST DUCT FROM EXHAUST FAN UP THROUGH ROOF TO ROOF CAP. FOR ROOF CAP DETAIL, SEE 4/M3.1.
- DOOR LOUVER. FOR EXACT SIZE AND LOCATION, SEE ARCHITECTURAL DRAWINGS.

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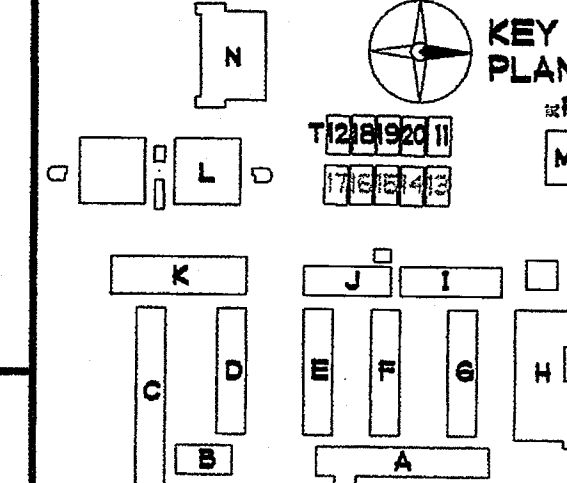
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JOHN SCOTT GROTH
C-26609
4/30/2007
RENEWAL
STATE OF CALIFORNIA

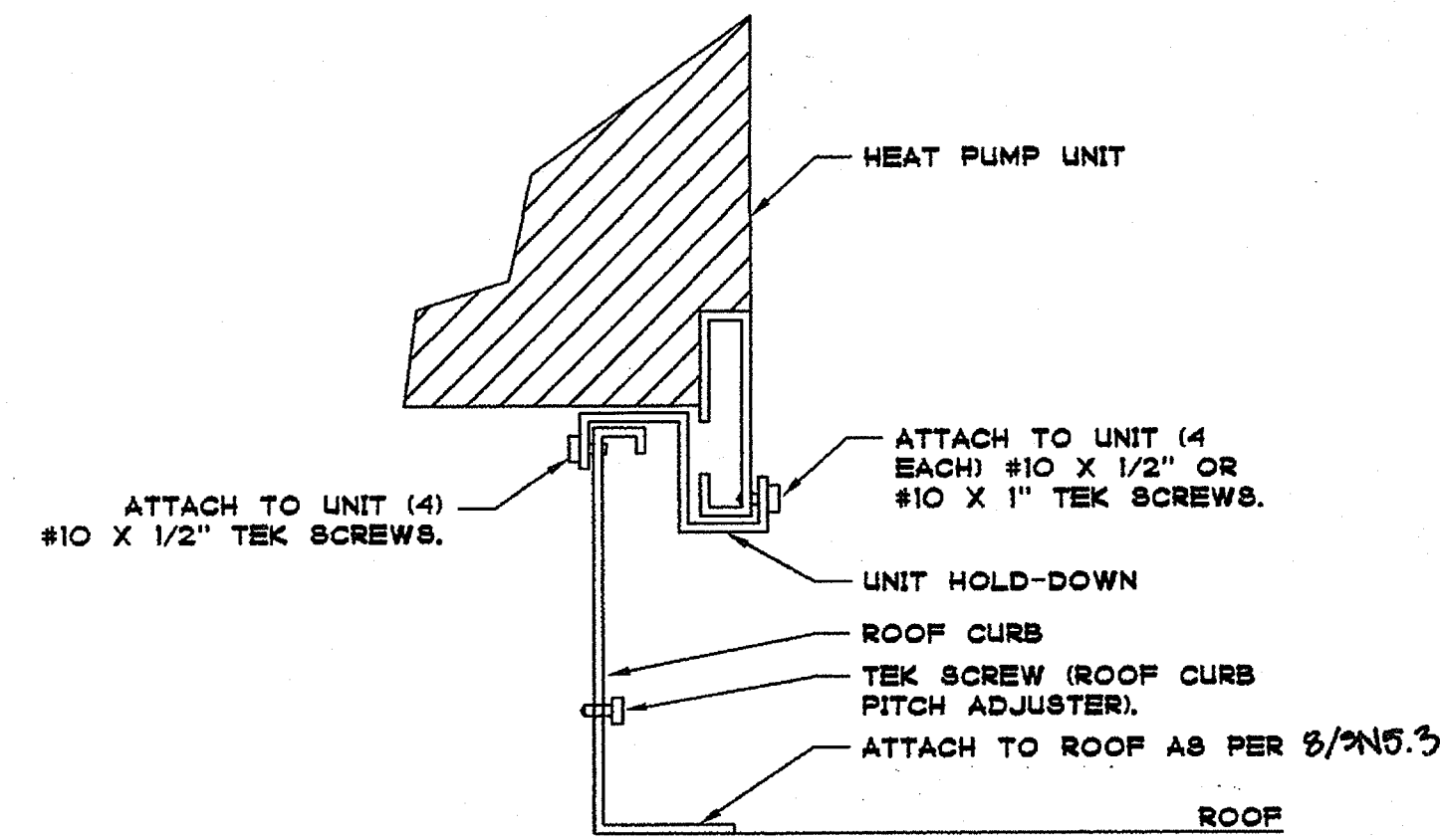
SHEET TITLE

BUILDING P
FLOOR PLAN -
MECHANICAL

MP-2.1

1165 LINDA VISTA DRIVE
SUITE 1111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
T-SQUARED
PROFESSIONAL ENGINEERS, INC.
#04036
03/18/2005



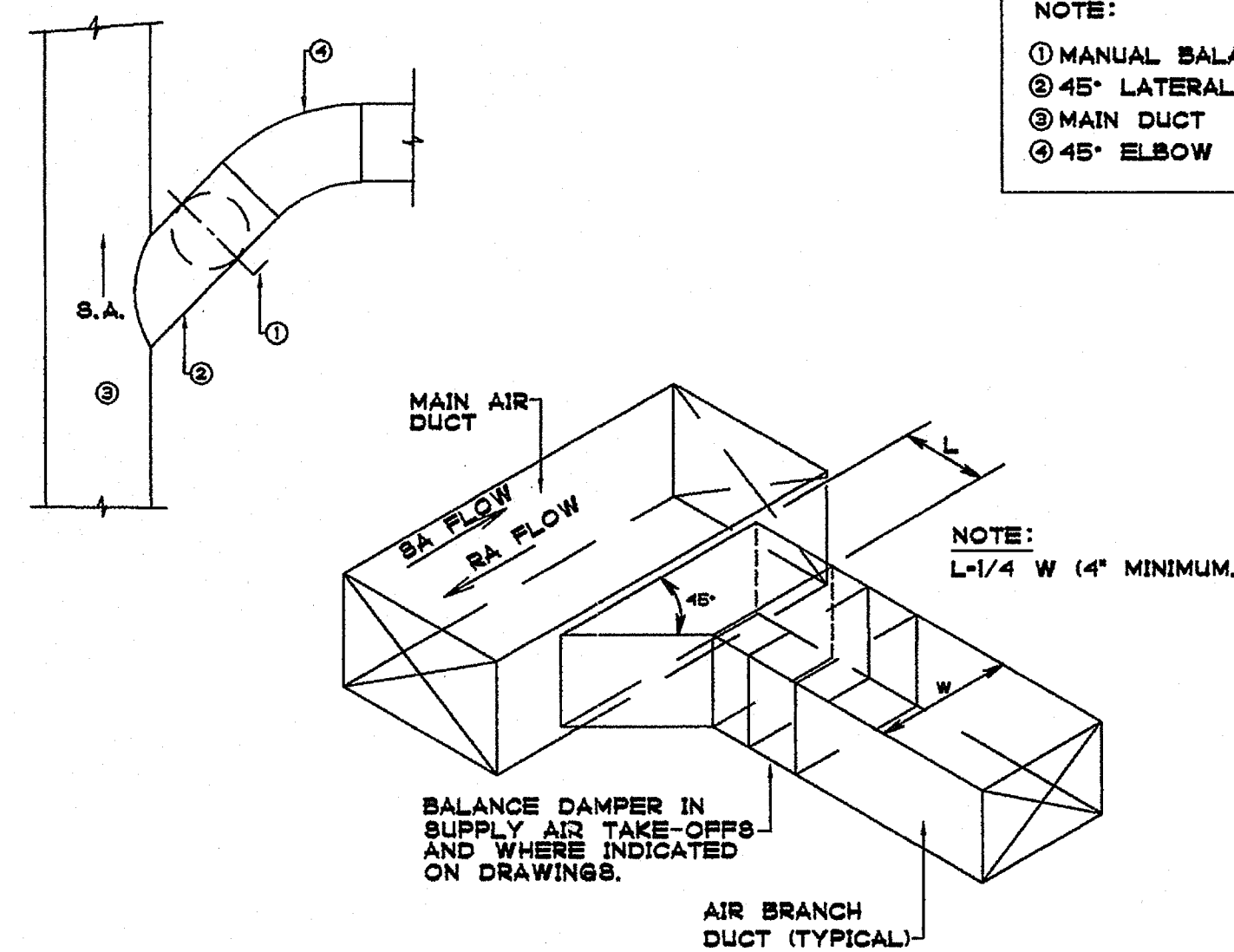


NOTES:
1. FOR FLASHING, WATER PROOFING AND ATTACHMENT TO ROOF REQUIREMENTS SEE ARCHITECTURAL AND STRUCTURAL PLANS.

ROOFTOP UNIT MOUNTING DETAIL

NO SCALE

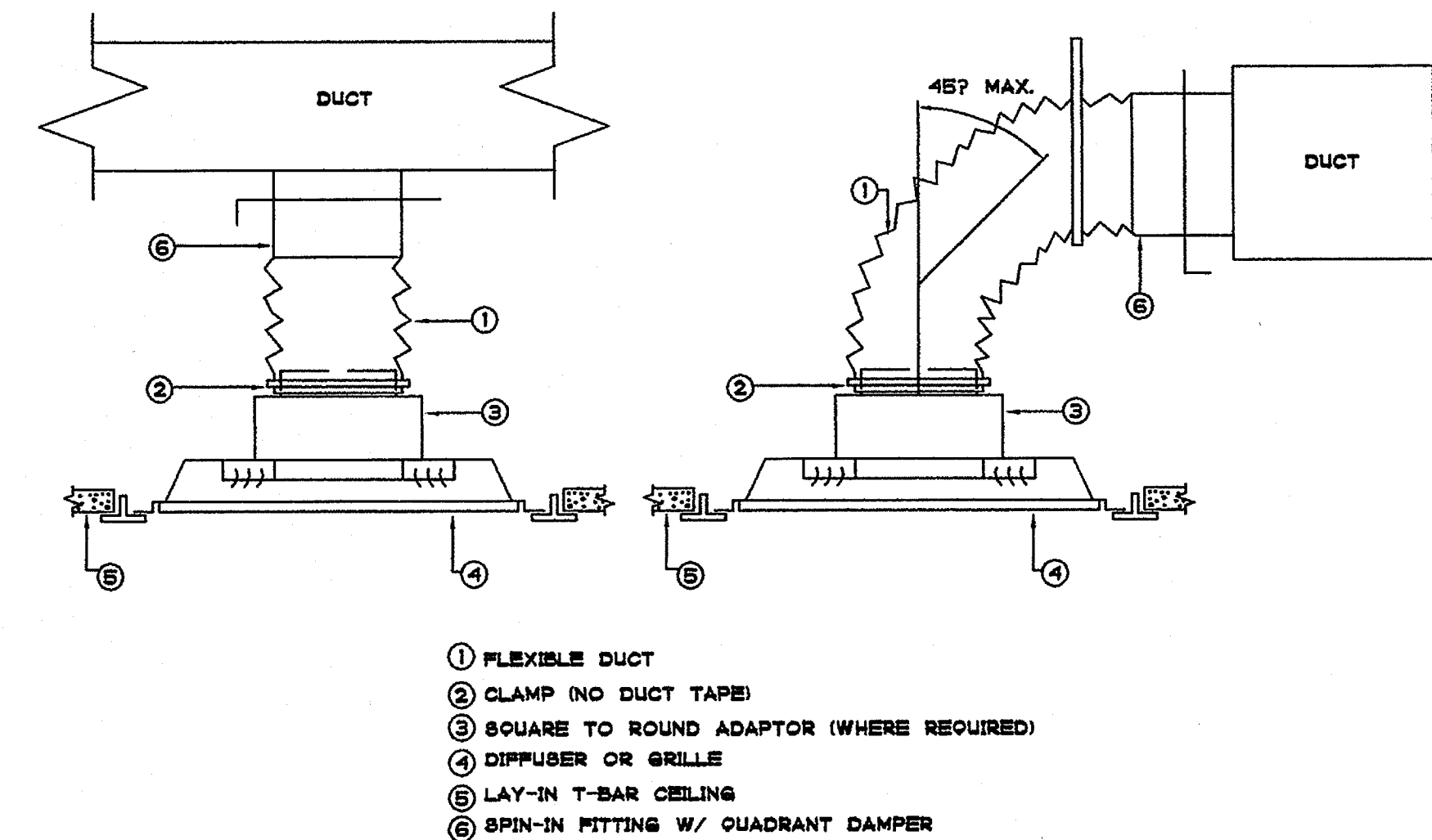
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DUCT TAKE-OFF DETAIL

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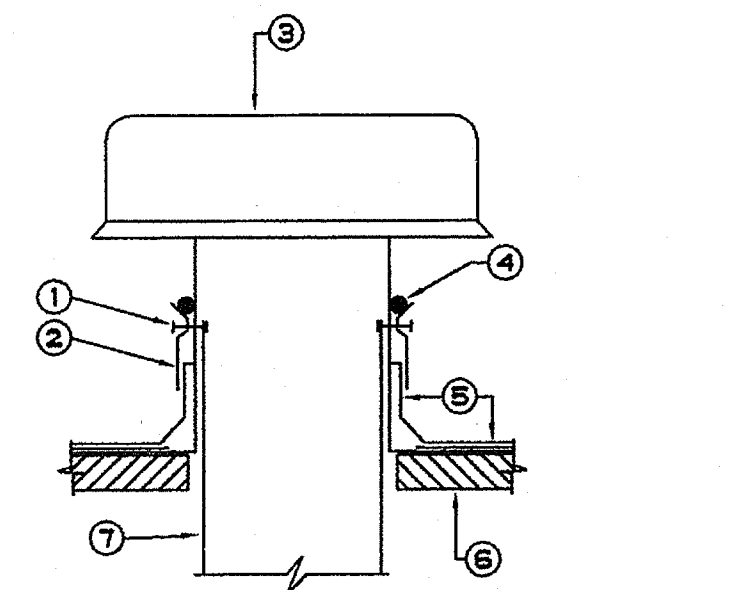
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CEILING DIFFUSER/REGISTER DETAIL

NO SCALE

3

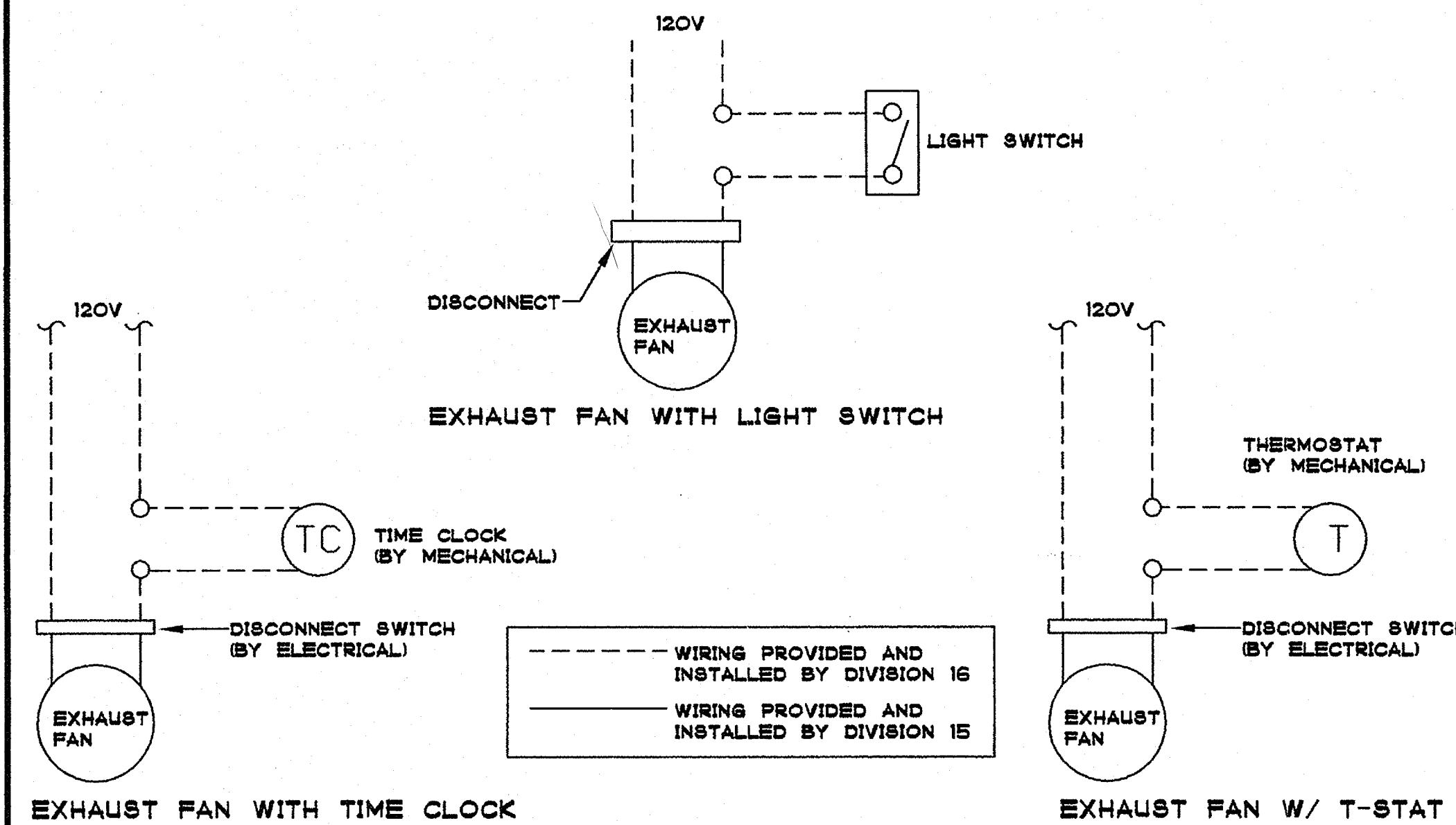


1 SECURE W/ 1/2" GALVANIZED BOLTS (TYP. OF 4)
2 COUNTER FLASHING
3 ROOF CAP
4 WATER PROOF SEALANT ALL AROUND
5 ROOFING AS PER ARCH. & STRUCT. DWGS.
6 ROOF STRUCTURE
7 EXHAUST DUCT THROUGH ROOF

ROOF CAP DETAIL

NO SCALE

4



EXHAUST FAN CONTROL DIAGRAM

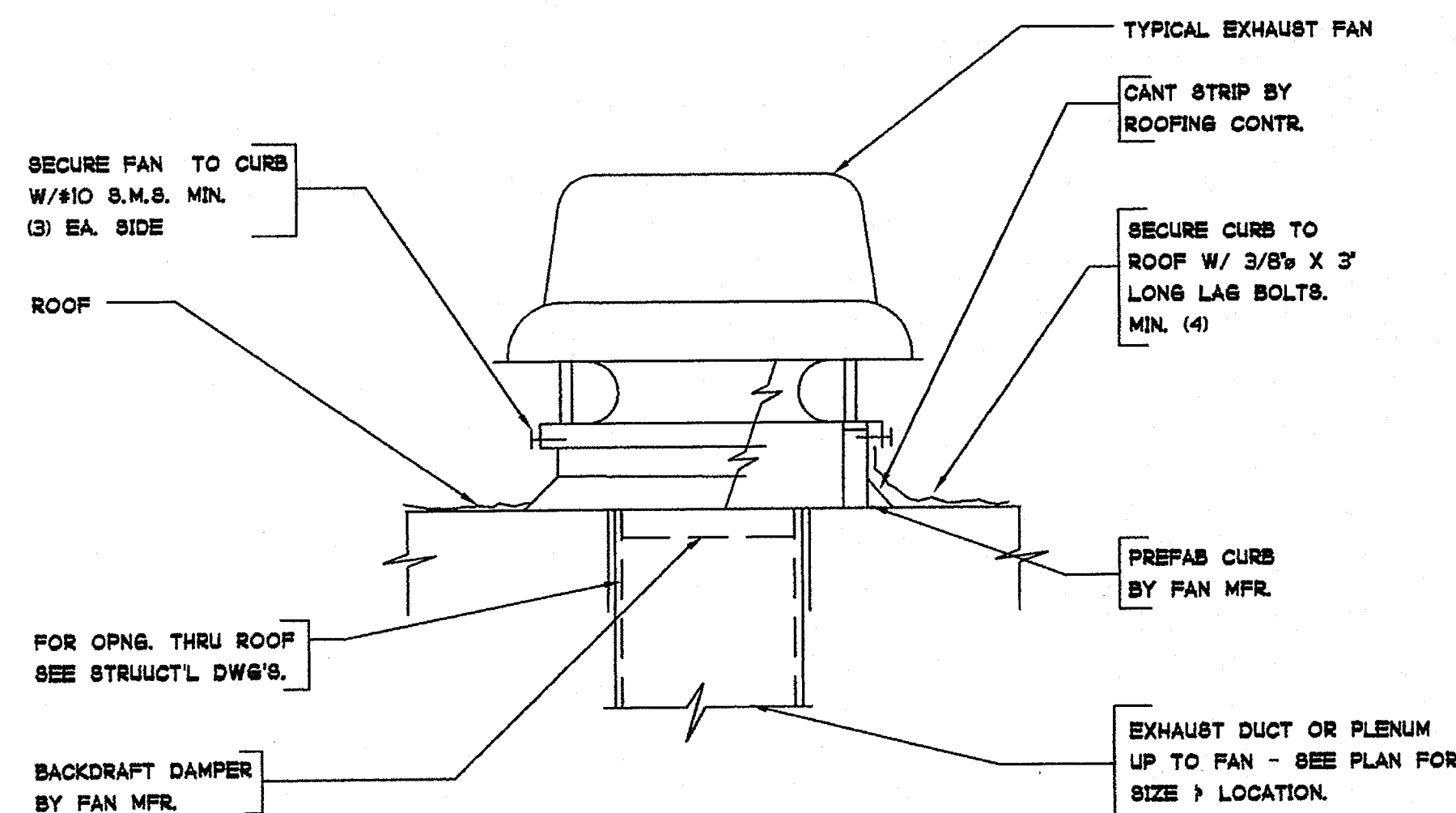
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5

NOT USED

NO SCALE

6

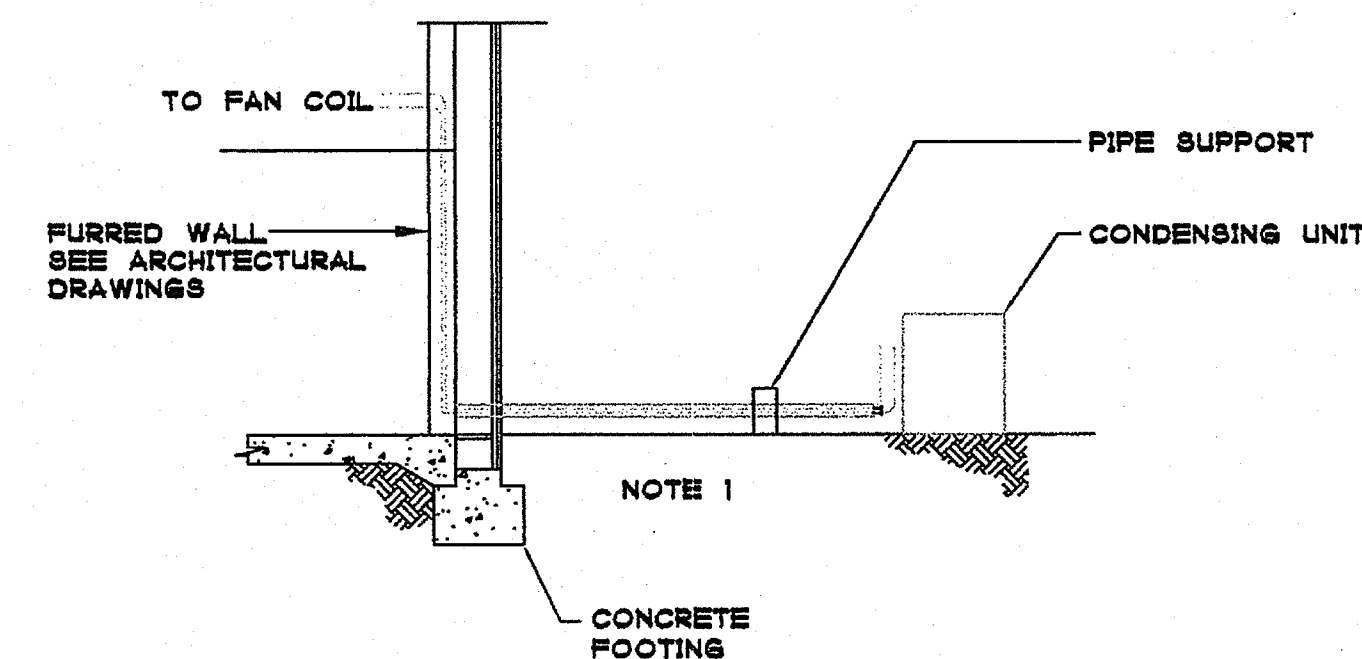


NOTE: SEE ADDITIONAL DETAILS ON SNI.2 & SOLI.2

DOWNBLAST EXHAUST FAN DETAIL

NO SCALE

7



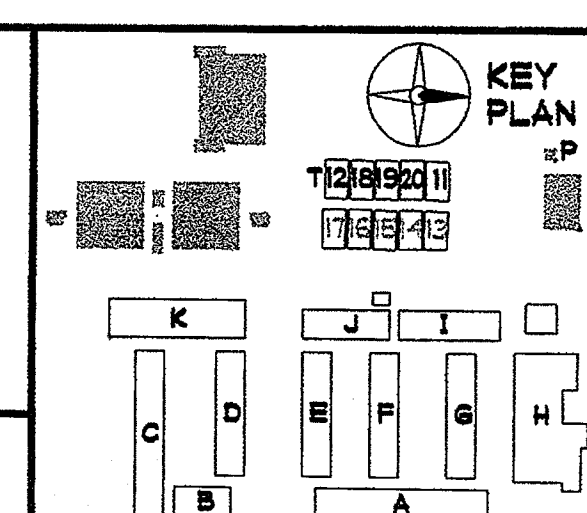
NOTE 1:
ROUTE REFRIGERANT PIPES ALONG MECHANICAL CLOSET WALL. PENETRATE WALL AND ROUTE TO ABOVE GROUND W/ SUPPORTS. PROVIDE STAINLESS STEEL JACKET AND INSULATION. COORDINATE PIPING IN WALL WITH ELECTRICAL & PLUMBING CONTRACTOR'S PRIOR TO START OF WORK.

REFRIGERANT PIPE TO CU DETAIL

NO SCALE

8

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
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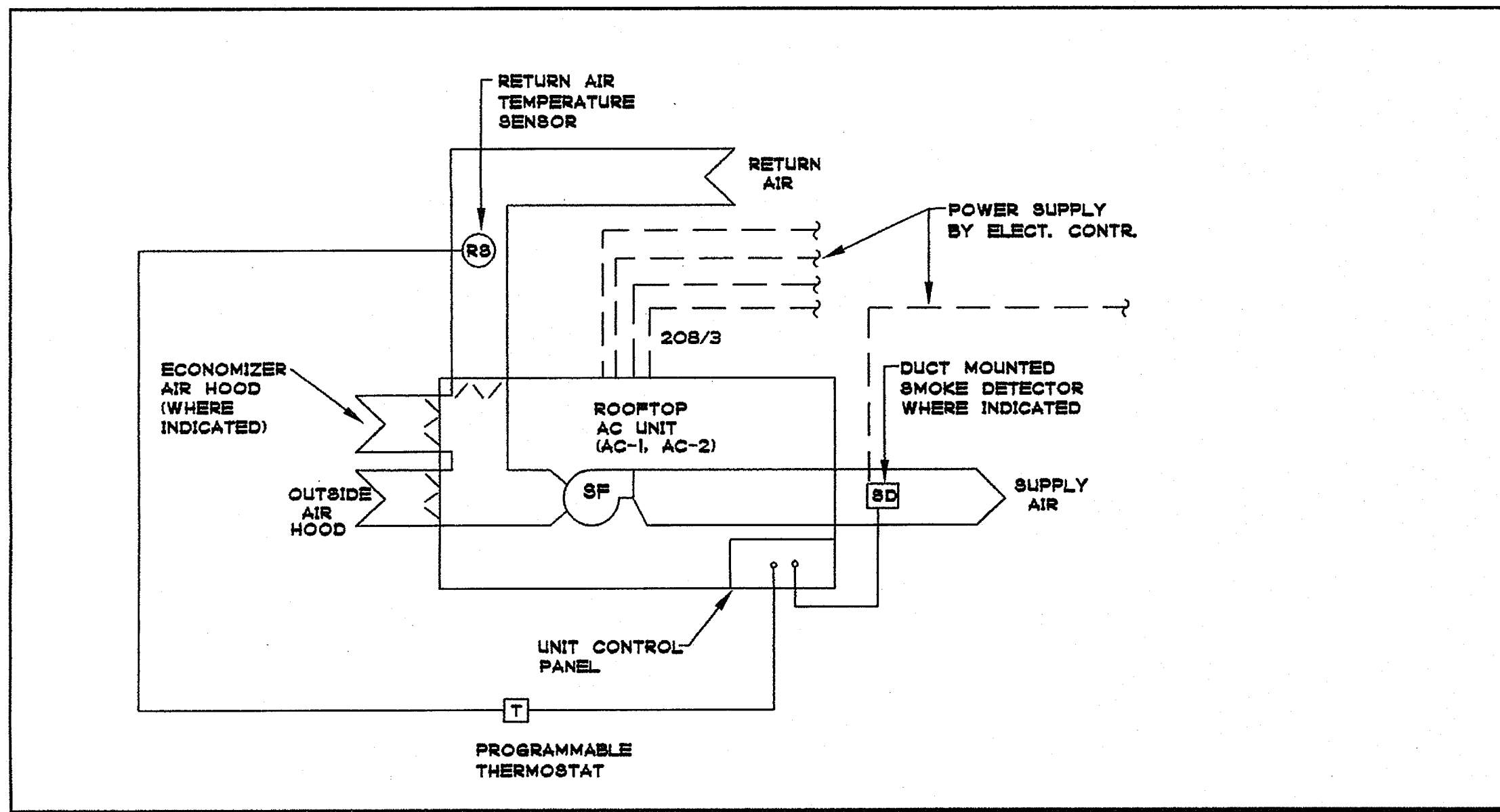
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C-26609
4/30/2007
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STATE OF CALIFORNIA

SHEET TITLE
MECHANICAL
DETAILS

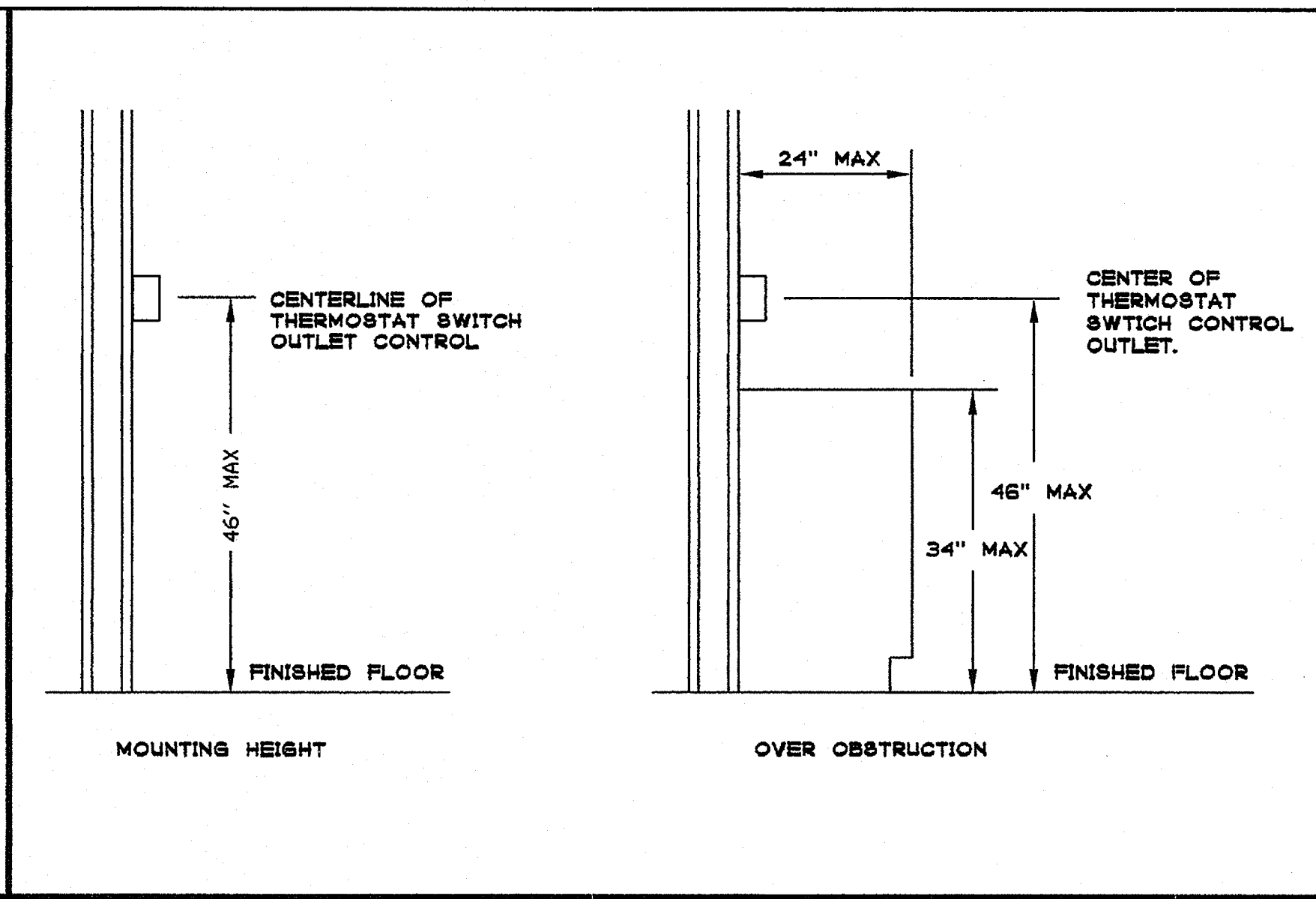
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ROOFTOP A/C UNIT CONTROL DIAGRAM

NO SCALE

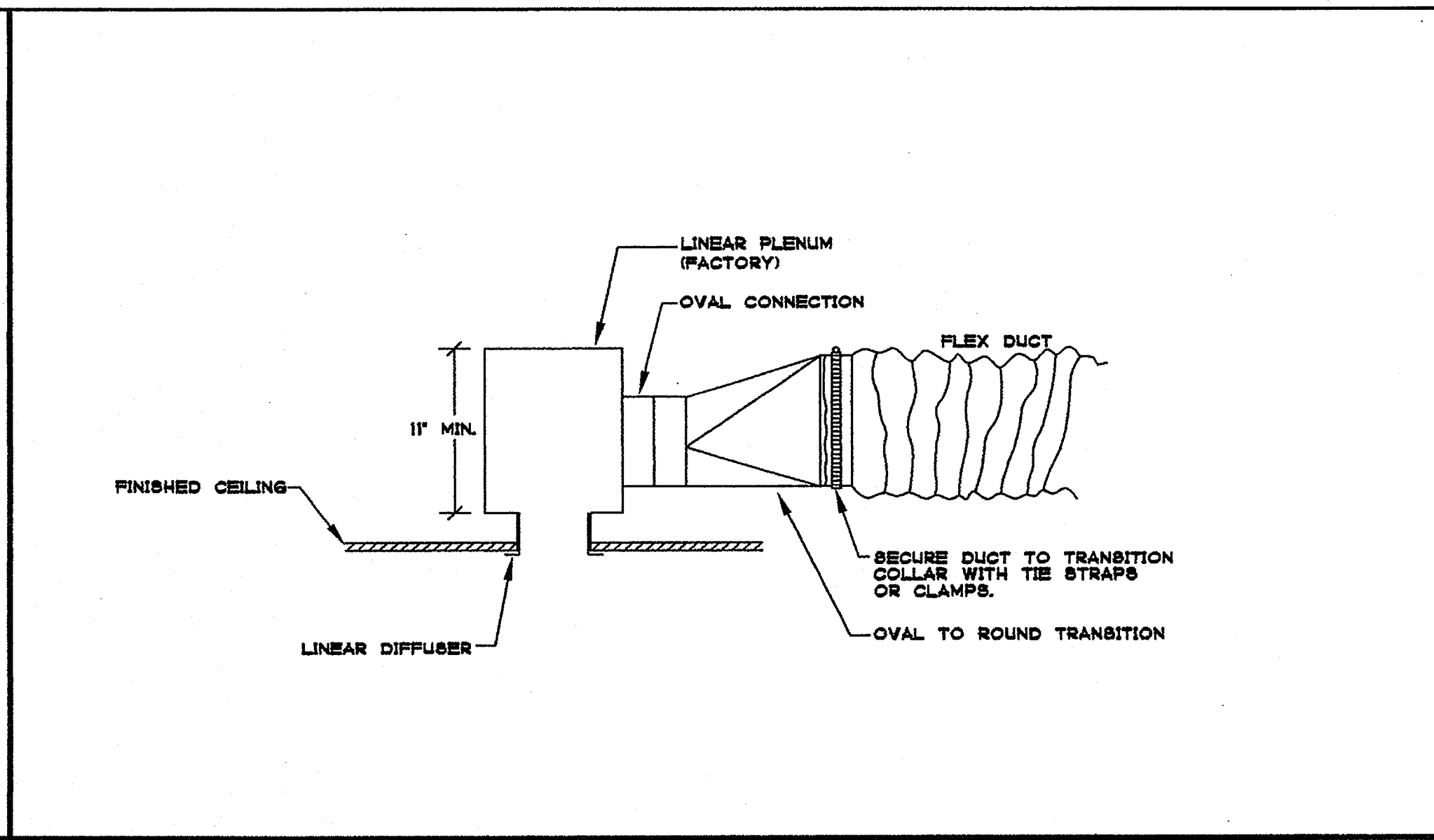
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THERMOSTAT MOUNTING DETAIL

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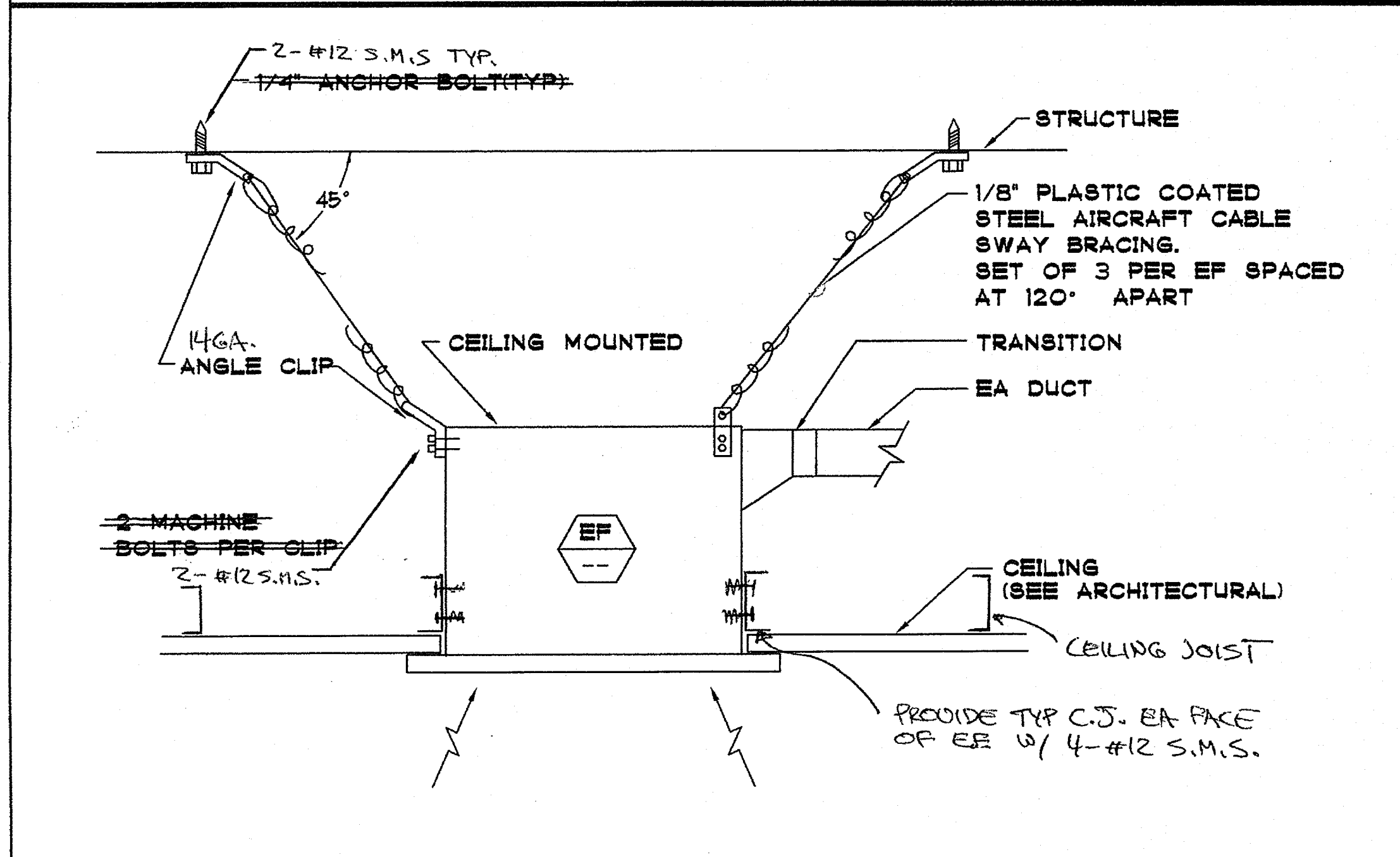
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LINEAR DIFFUSER PLENUM DETAIL

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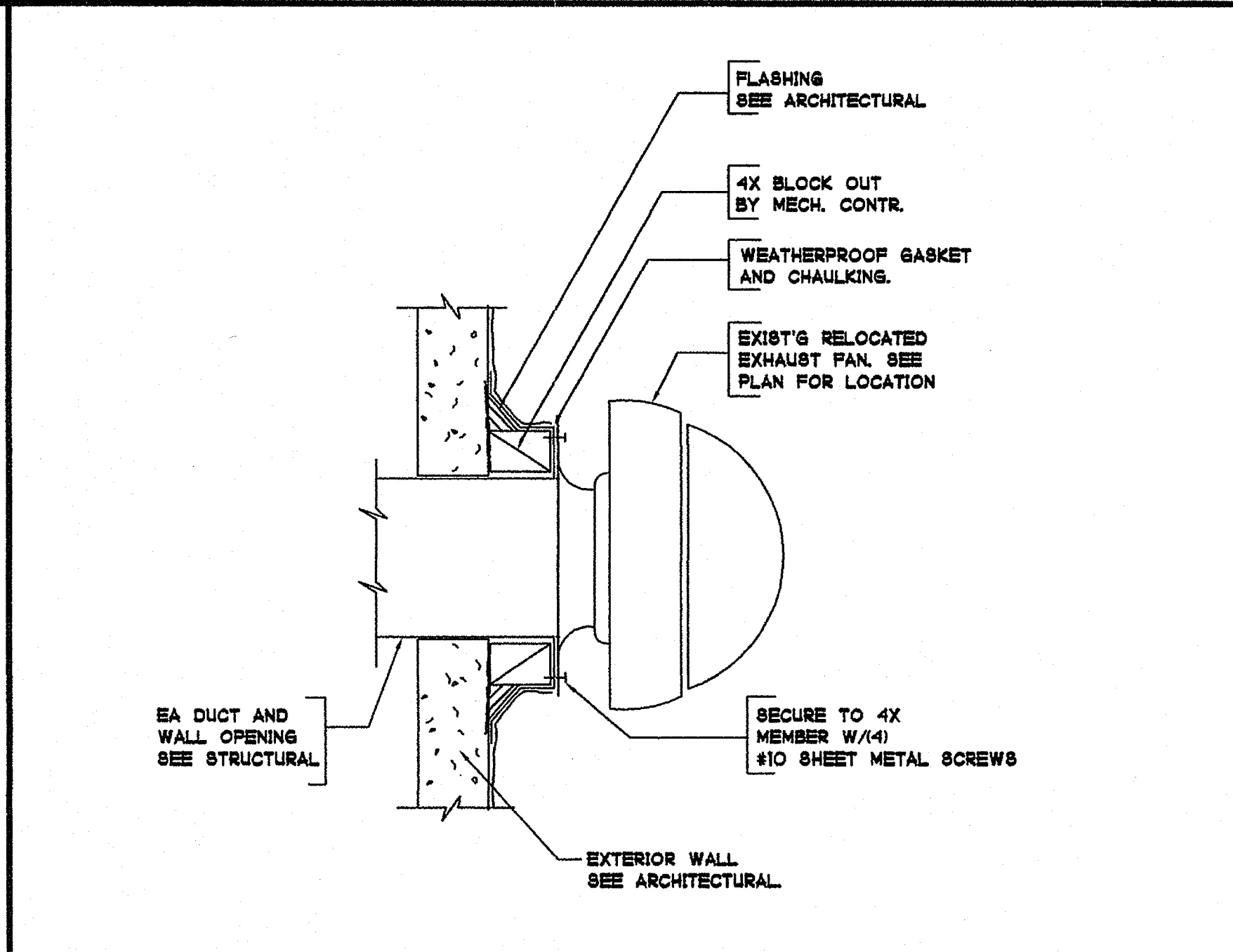
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CEILING EXHAUST FAN MOUNTING DETAIL

NO SCALE

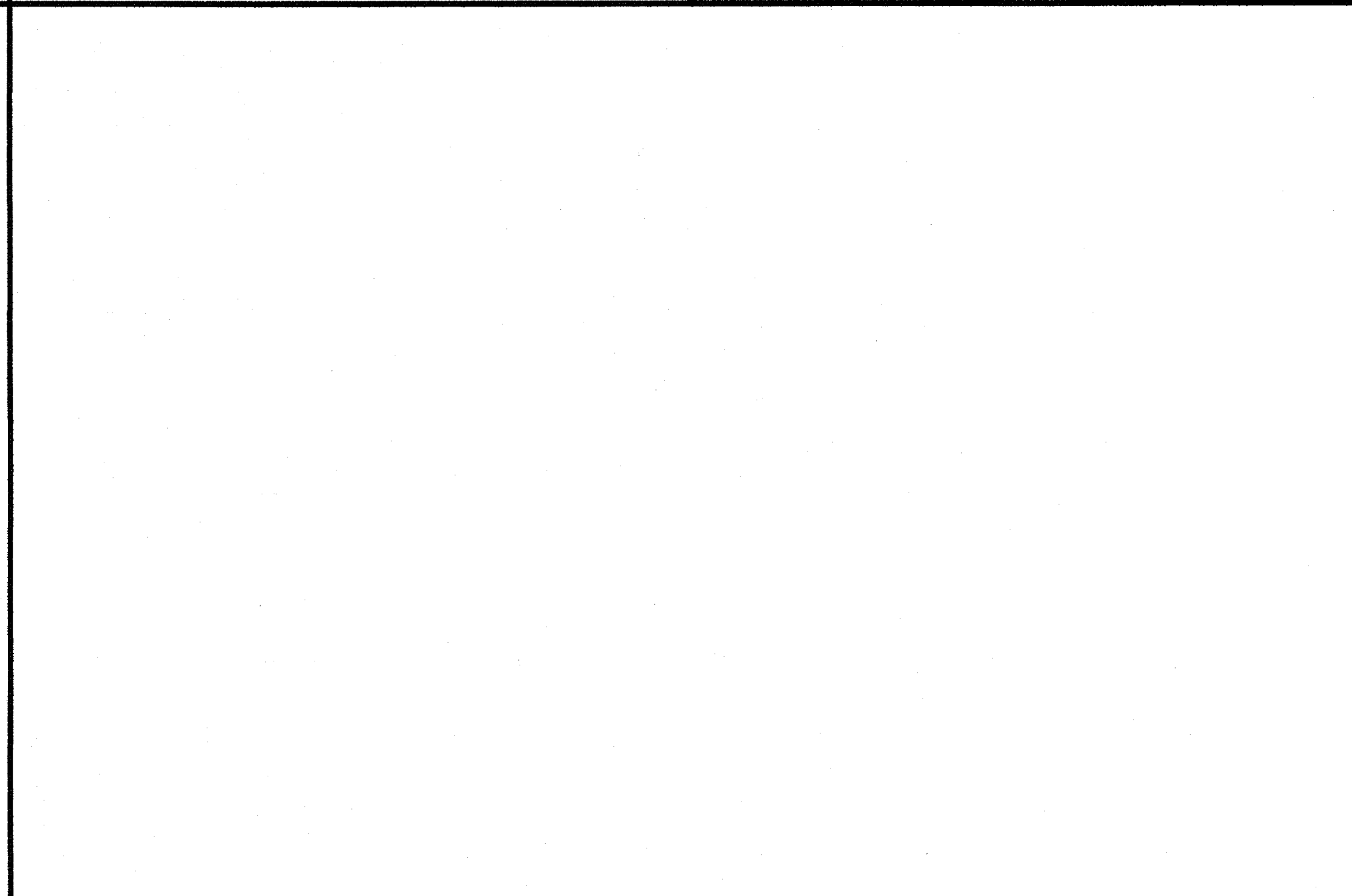
4



WALL MOUNTED EXHAUST FAN DETAIL

NO SCALE

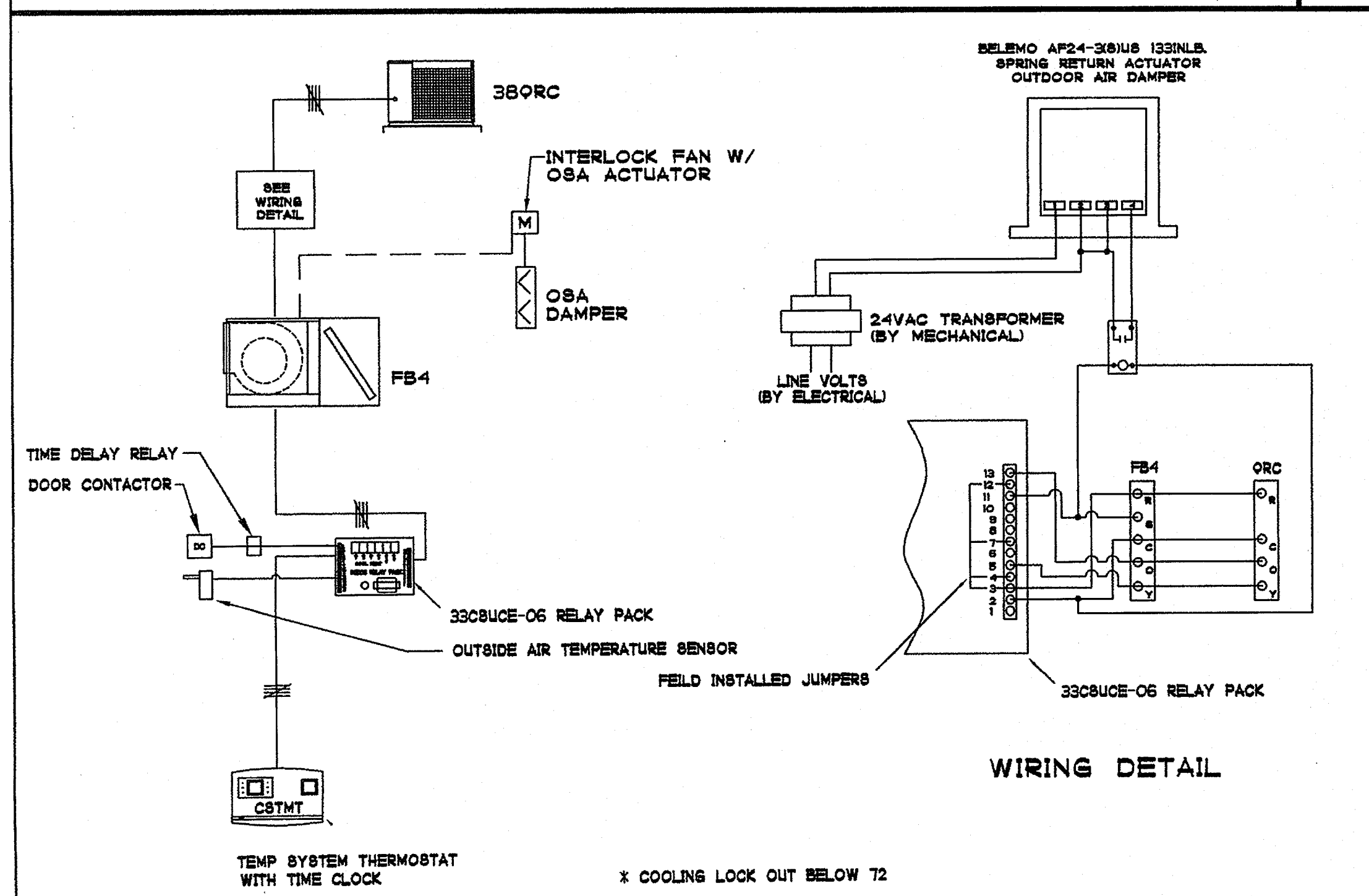
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NOT USED

NO SCALE

6



FAN COIL/CU UNIT CONTROL DIAGRAM

NO SCALE

7

SEQUENCE OF OPERATIONS:

1. SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. CONTRACTOR SHALL VERIFY TIME SCHEDULES WITH SCHOOL DISTRICT PRIOR TO COMMISSIONING OF SYSTEM.
2. THERMOSTAT PROGRAMMING SHALL INCLUDE SCHOOL HOLIDAY SCHEDULES.
3. COMPRESSOR COOLING FUNCTION SHALL BE LOCKED OUT WHEN OUTDOOR TEMPERATURE IS BELOW 72 DEG. F (AS DETERMINED BY OUTDOOR AIR TEMPERATURE SENSOR LOCATED IN SHADE OF SOFFIT).
4. ACCESS TO PROGRAMMING FUNCTION (AFTER SYSTEM IS FULLY COMMISSIONED) SHALL BE LIMITED TO THE SCHOOL MAINTENANCE STAFF AND SHALL REQUIRE CODE ACCESS. ALL THERMOSTATS SHALL BE PROGRAMMED WITH THE SAME ACCESS CODE. CONTRACTOR SHALL PROVIDE THE CODE (IN WRITING) AND DETAILED THERMOSTAT PROGRAMMING INSTRUCTIONS TO THE MAINTENANCE STAFF.
5. THE OCCUPANT SHALL HAVE THE ABILITY TO ADJUST THE HEATING SETPOINT FROM 60 DEG F TO 70 DEG F AND THE COOLING SETPOINT FROM 72 DEG F TO 80 DEG F. THE OCCUPANT SHALL HAVE THE ABILITY TO MANUALLY OVERRIDE THE UNOCCUPIED SCHEDULE FOR 1 TO 4 HOURS.
6. OSA DAMPER SHALL OPEN TO REQUIRED POSITION WHEN FAN IS IN OPERATION. CLOSE WHEN FAN SHUTS DOWN.
7. WHEN DOOR IS OPEN FOR TIME DETERMINED BY SCHOOL AUTHORITY, FAN COIL & HEAT PUMP UNIT TO SHUT DOWN.

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com

T-SQUARED
PROFESSIONAL ENGINEERS, INC.

#04036
03/18/2005

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
EXPIRATION DATE 3/31/07

KEY PLAN

MECHANICAL DETAILS

M-3.2

PLOTTED 03-18-05 8:10 AM

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PROJECT NO. 758-000
PROJECT NOS. 025
P. T. N. 73569-9
DATE
REVISIONS

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

GROTH ARCHITECTS, INC.
3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291

DSA
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-106494
AC FLG 88
DATE MAR 28 2005

REGISTERED ARCHITECT
JOHN SCOTT GROTH
C-26609
4/30/2007
RENEWAL
STATE OF CALIFORNIA

SHEET TITLE

PLUMBING GENERAL NOTES

- ALL PLUMBING WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE, UNIFORM BUILDING CODE, CALIFORNIA MECHANICAL CODE, C.A.C. TITLE 24, AMERICANS WITH DISABILITIES ACT (A.D.A.), NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.), THE LOCAL CITY AND COUNTY CODES, AND ALL OTHER CODES HAVING JURISDICTION. IN CASE OF CONFLICT, THE MORE STRICT REGULATIONS SHALL GOVERN.
- CONTRACTOR SHALL NOTIFY ALL LOCAL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE GAS COMPANY, ELECTRIC COMPANY, TELEPHONE COMPANY, AND THE WATER DEPARTMENT, ABOUT THE EXTENT OF PLUMBING WORK. ALL EXCAVATION WORK SHALL BE APPROVED BY ALL UTILITY COMPANIES TO AVOID PREVENTION OF INTERRUPTION OF EXISTING SERVICES PRIOR TO START OF WORK.
- ALL PLUMBING WORK SHALL BE COORDINATED WITH THE WORKS OF OTHER TRADES PRIOR TO START OF WORK. NECESSARY ADJUSTMENTS SHALL BE MADE AT NO EXTRA COST.
- FOR MINIMUM PIPE SIZE CONNECTIONS TO EACH PLUMBING FIXTURE SEE PLUMBING FIXTURE SCHEDULE. THESE VALUES ARE MINIMUM. LARGER CONNECTIONS MAY RESULT BASED ON THE DIFFERENT MANUFACTURER'S RECOMMENDATIONS.
- SEWER AND VENT PIPE SHALL BE ABS SCHEDULE 40 AND SHALL CONFORM TO ASTM D 2321-89.
- HOT AND COLD WATER PIPES, AND CONDENSATE DRAIN PIPES ABOVE GROUND SHALL BE ASTM B88 TYPE "L" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS.
- COLD WATER PIPES BELOW GROUND SHALL BE ASTM B88 TYPE "K" HARD DRAWN COPPER TUBING FACTORY INSULATED WITH WROUGHT COPPER FITTINGS.
- PROVIDE DIELECTRIC FITTINGS FOR DISSIMILAR METALS IN CONTACT.
- PROVIDE HANGERS AND SUPPORTS FOR PIPING IN ACCORDANCE WITH THE RECOMMENDATIONS OF MSS SP-68.
- PROVIDE VALVES AT THE FOLLOWING LOCATIONS:
 - WATER MAIN SHUT-OFF VALVE IN VALVE BOX.
 - VALVE WITH HOSE CONNECTION ON DOWNSTREAM SIDE OF THE MAIN SHUT-OFF VALVE.
 - SHUT-OFF VALVE ON EACH SUPPLY TO EACH FIXTURE AND EQUIPMENT ITEM NOT PROVIDED WITH CONTROL STOP OR OTHER AUXILIARY SHUT-OFF VALVE.
- INSTALL SHUT-OFF VALVES SO THAT STEMS EITHER ARE VERTICAL WITH HANDWHEELS OR OPERATORS ON TOP OR ARE HORIZONTAL AND SO THAT VALVES ARE EASILY ACCESSIBLE FOR OPERATION, SERVICE, REMOVAL AND REPLACEMENT.
- PROVIDE SLEEVES FOR ALL PIPE AND TUBING PASSING THROUGH FLOORS, ROOFS, AND WALLS. PACK OAKUM INTO THE SPACE AROUND THE PIPE OR TUBING. PROVIDE FLASHING FOR ALL PIPES EXTENDING THROUGH THE ROOF.
- ALL VENT TERMINATIONS AT ROOF SHALL BE AT LEAST 10 FEET AWAY FROM OUTSIDE AIR INTAKES, OPERABLE WINDOWS, AND THE LIKE.
- FILL CRACKS BETWEEN FIXTURES AND WALL/FLOORS WITH SILICONE RUBBER SEALANT.
- LOCATE, SIZE, AND INSTALL WATER HAMMER ARRESTERS IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD NO. WH-201.
- INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. SECURE FLOOR OUTLET OF FLOOR-MOUNTED FIXTURES TO DRAINAGE CONNECTIONS AND FLOOR IN A RIGID MANNER. RIGIDLY SUPPORT WALL-HUNG FIXTURES BY MEANS OF METAL SUPPORTING MEMBERS. CHROME-PLATED BRASS BOLTS, NUTS, AND WASHERS WHERE EXPOSED. ALL CONNECTIONS SHALL BE MADE GAS-TIGHT AND WATER-TIGHT. USE OF PUTTY AND PLASTICS FOR GASKETS WILL NOT BE PERMITTED.
- PROVIDE ALL FIXTURE COMPONENTS AS INDICATED ON DRAWINGS. PROVIDE ADDITIONAL COMPONENTS AS PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER OPERATION OF THE FIXTURES.
- PROVIDE EACH PLUMBING FIXTURE INCLUDING HOSE BIBB WITH AN INDIVIDUAL STOP OR COMPRESSION VALVE OF POLISHED CHROME-PLATED LOOSE KEY TYPE.
- WHERE DEPTHS OR INVERTS ELEVATIONS ARE NOT INDICATED, PROVIDE MINIMUM COVERAGE (ABOVE TOP OF PIPES) AS FOLLOWS:
 - ANY PIPING UNDER SLAB (TOP OF PIPE TO UNDERSIDE OF SLAB): 18 INCHES.
 - CAST IRON AND COPPER PIPES IN OTHER LOCATIONS: 18 INCHES.
- EXCAVATE TO UNDISTURBED EARTH: CUT LEVEL AND FORM TRUE. REMOVE DEBRIS, RUBBISH AND SOFT MATERIAL (SUCH AS MUD). WHERE ROCK IS ENCOUNTERED, UNDERCUT TRENCHES 6-INCHES AND FILL WITH WELL TAMPED NEUTRAL SAND AND FEA GRAVEL TO PROPER PIPE ELEVATION. DURING EXCAVATION FREE OF STANDING WATER. UNDERCUT TRENCH 6- AND INSTALL PIPING IN A 6-INCH NEUTRAL SAND ENVELOPE.
- BACKFILL TO A POINT 12-INCHES ABOVE TOP OF PIPING WITH EARTH (EXCAVATED MATERIAL MAY BE USED) FREE OF CLAY, DEBRIS, RUBBISH, ROCKS, OR CLODS OVER 4-INCHES IN THE GREATEST DIMENSION. BACKFILL ABOVE 12-INCHES FROM TOP OF PIPING MAY BE WITH EXCAVATED MATERIAL. APPLY BACKFILL BY HAND IN 6-INCH DEEP LAYERS THE FULL WIDTH OF THE TRENCH. MOISTEN EACH LAYER (DO NOT FLOOD OR PUDDLE), AND HAND TAMP TO A MINIMUM 90 PERCENT COMPACTION BEFORE PROCEEDING WITH THE NEXT LAYER OF BACKFILL.
- DO NOT EXCAVATE UNDER FOUNDATIONS OR FOOTINGS EXCEPT IN MANNER PERMITTED BY THE ARCHITECT. DO NOT BACKFILL UNTIL INSTALLED PIPING HAS BEEN SUCCESSFULLY TESTED AND INSPECTED.
- ALL GAS PIPING MATERIAL AND INSTALLATION SHALL BE IN COMPLETE COMPLIANCE OF THE UNIFORM PLUMBING CODE (LATEST EDITION). ALL NEW GAS PIPING ABOVEGROUND SHALL BE "BLACK STEEL". ALL GAS PIPING BELOW GROUND SHALL BE POLYETHYLENE (PE) PIPING PER ASTM D 2513. FITTINGS SHALL BE AS PER ASTM D 2883 AND ASTM D 2513. PROVIDE FLEXIBLE CONNECTIONS AND GAS COCKS AT ALL GAS OUTLETS. PROVIDE FLEXIBLE CONNECTION AT ALL GAS PIPING CONNECTIONS INTO GAS BURNING EQUIPMENT AND APPLIANCES.

- ALL CONDENSATE WASTE SHALL BE DRAINED BY MEANS OF RIGID INDIRECT WASTE PIPES INTO A FLOOR SINK VIA LEGAL AIR GAP OR TO A P-TRAP WITH NO MORE THAN 10 NOMINATIONS OF AIR CONDITIONING CONNECTED TO THE P-TRAP.
- HORIZONTAL RUNS OF DRAIN LINES SHALL BE AT LEAST 3/4 INCH FROM THE WALL AND SIX (6) INCHES OFF THE FLOOR AND SHALL TERMINATE AT LEAST ONE (1) INCH ABOVE THE OVERFLOW RIM OF THE FLOOR SINK.
- FLOOR SINKS SHALL BE LOCATED WITHIN 15 FEET OF THE DRAIN OPENING OF THE EQUIPMENT SERVED.
- ALL SINKS AND LAVATORIES SHALL BE SUPPLIED WITH HOT (MAXIMUM 120 DEG. F) AND COLD RUNNING WATER UNDER PRESSURE. ALL LAVATORIES OR HAND SINKS SHALL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MINIMUM OF 10 SECONDS.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND SIZES OF DRAINS FROM ALL EQUIPMENT, WITH THE MANUFACTURERS PRIOR TO START OF WORK.
- PROVIDE VACUUM BREAKERS AT HOSE BIBBS.
- COORDINATE AND VERIFY ALL GAS LOADS OF ALL APPLIANCES AND EQUIPMENT WITH THE MANUFACTURER PRIOR TO START OF WORK.
- COORDINATE SAWCUTTING SEQUENCE WITH OTHER TRADES PRIOR TO START OF WORK.
- ALL SEWER AND DRAINAGE PIPING SHALL BE INSTALLED AS PER UPC (LATEST EDITION). SLOPE SHALL BE MINIMUM 1/4 INCH PER FOOT DROP.
- ALL HOT WATER PIPING AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVS SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES. INSULATE UNDERSIDE OF ALL METAL UNDER ACCESSIBLE LAVATORIES/SINKS.
- CONTRACTOR SHALL FIELD VERIFY AVAILABLE INVERT ELEVATIONS PRIOR TO START OF WORK. IN CASE OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, INFORM ARCHITECT IN WRITING, BEFORE PROCEEDING FURTHER.

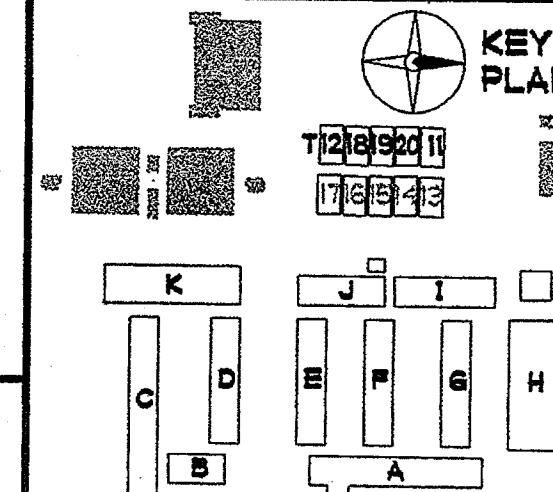
TITLE 24 NOTES

- ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE REQUIREMENTS OF U.S.C. (CALIFORNIA EDITION), UMC, UPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS.
- ALL PLUMBING EQUIPMENT LISTED IN (CCR) SECTION 2-111 MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
- ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED BY THE CEC. IN ACCORDANCE WITH SECTION 10-113 OF THE CCR AND ENERGY EFFICIENCY STANDARDS RESIDENTIAL NON-RESIDENTIAL.
- ALL PIPING SHALL BE INSULATED IN ACCORDANCE TO SECTION 1201.1.8 OF UMC (CALIFORNIA EDITION).
- ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF SECTION 1201.1.8 UMC (CALIFORNIA EDITION) WHEN TESTED IN ACCORDANCE WITH UBC (CALIFORNIA EDITION) STANDARD 8-6.
- FAUCETS SHALL BE 2.2 GPM MAXIMUM.
- PROVIDE ULTRA LOW FLUSH TOILETS, 1.6 GPF MAXIMUM.
- ALL GAS APPLIANCES MUST HAVE PILOTLESS IGNITION SYSTEM IN ACCORDANCE WITH SECTION 115 OF CEC.
- ALL ACCESSIBLE FIXTURES SHALL BE INSTALLED AS PER THE LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABILITIES ACT).
- WATER HEATER SHALL COMPLY WITH SECTION 608.3 OF UPC 1997, FOR THERMAL EXPANSION REQUIREMENTS.

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
=====	S	SEWER ABOVE & BELOW GRADE
-----	V	SANITARY VENT
-----	CW	COLD WATER LINE
-----	HW	HOT WATER LINE
-----	HWR	HOT WATER RETURN LINE
— G —	G	GAS LINE
— CD —	CD	CONDENSATE DRAIN
	A.D.A.	AMERICANS WITH DISABILITIES ACT
⊕	FCO	FLOOR CLEAN-OUT
⊕	WCO	WALL CLEAN-OUT
	N.T.S.	NOT TO SCALE
⊕	CGO	GRADE CLEAN-OUT
⊕	SOV	SHUT-OFF VALVE
⊕	GC	GAS COCK
⊕	POC	POINT OF CONNECTION
— SD —	SD	STORM DRAIN
	ABV	ABOVE
	BEL	BELOW
	DN	DOWN
	CLG	CEILING
	FLR	FLOOR
	VTR	VENT THRU ROOF
	CONT	CONTINUE
	AP	ACCESS PANEL
— U —	U	UNION
	HC	ACCESSIBLE
⊕		REDUCER IN PIPE
— MPG —	MPG	MEDIUM ORESSURE GAS (NATURAL)
⊕	P & T	PRESSURE & TEMPERATURE RELIEF VALVE
○		RISER
○	VTR	VENT THRU ROOF
	CFH	CUBIC FEET PER HOUR
	PRV	PRESSURE REGULATING VALVE
	GPM	GALLONS PER MINUTE
⊕	T	THERMOMETER
⊕	AS	AQUASTAT
⊕		PIPE DOWN
⊕		PIPE UP
⊕	FC	FLEXABLE CONNECTOR, PIPING
⊕	CV	CHECK VALVE
⊕	BV	BALL VALVE
⊕	TYP.	TYPICAL
	MFR.	MANUFACTURER
	N.S.F.	NATIONAL SANITATION FOUNDATION
	B/G	BELOW GRADE
	WHA	WATER HAMMER ARRESTOR
	(E)	EXISTING

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com

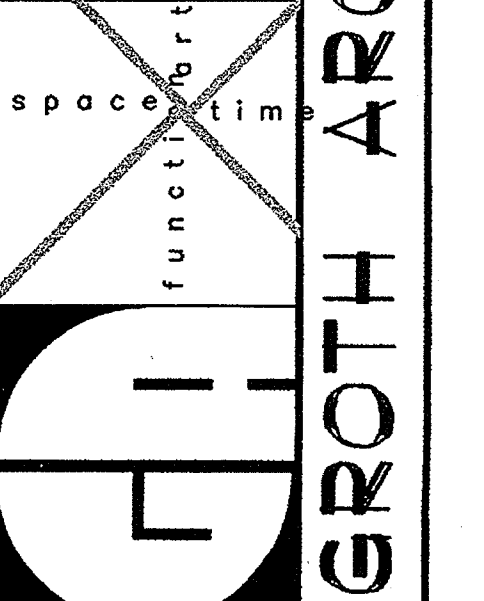


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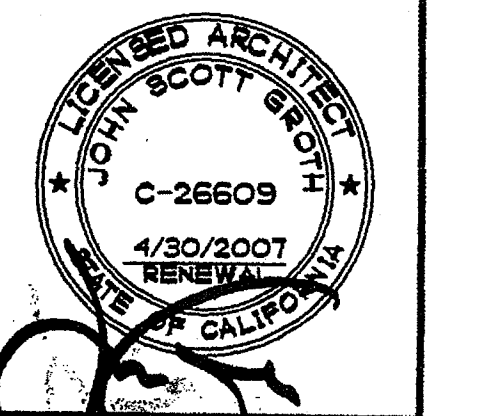
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QUSET NO.
758-000
PROJECT NOS.
025
P. T. N.
73569-9
DATE
REVISIONS

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.



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OFFICE OF REGULATION SERVICES
4-106494
AC PB FLA 88
DATE MAR 2 8 2005



PLUMBING
LEGEND & NOTES
P-1.1

DESCRIPTION	HOT AND COLD WATER				SEWER		
	NO. OF FIXTURES	F.U. PER FIXTURE	TOTAL FIXTURE UNITS		NO. OF FIXTURES	F.U. PER FIXTURE	TOTAL FIXTURE UNITS
			CW	HW			
WATER CLOSET (FLUSH VALVE)	3	5	15		3	4	12
LAVATORY	3	1	3	2.25	3	1	3
SINK	16	2	32	24	16	2	32
SHOWER STALL	1	2	2	1.5	1		
CLOTHESWASHER	1	4	4	3	1	2	2
SHOWER DRAIN	1	2			1	2	2
FLOOR SINK	8				8	2	16
FLOOR DRAIN (EMER)	4						
TOTAL			56	31			32

MAIN DOMESTIC WATER SUPPLY SIZING:
BASED ON CPC 2001 EDITION, CHART A-2, A-3, & A-4 (TYPE-L)

WATER SUPPLY SIZING:

TOTAL FIXTURE UNITS: 56 GPM: 54
OTHERS: 0
TOTAL: 54

DESIGN WATER PRESSURE @ MAIN PIPE: 60 PSI
PER JEPF FRIEND OF CITY OF OCEANSIDE WATER DISTRICT
TEL. NO. 1-760-435-5901, JULY 28 2004.

LENGTH OF DOMESTIC WATER SYSTEM: 809
FROM WATER METER TO BUILDING L

PRV REQUIRED: YES

PRESSURE INSIDE BLDG.: 60 PSI
LOSSES:

WATER METER: 7 PSI

STATIC HEIGHT (15 FEET X .43): 7 PSI

RESIDUAL PRESSURE: 30 PSI

TOTAL LOSSES: 44 PSI

ALLOWABLE FRICTION LOSS PER 100': 15 PSI

16 X 100 = 2 PSI
809

VELOCITY NOT TO EXCEED 8 FT/SEC

DCW PIPE SIZING SCHEDULE
MAXIMUM VELOCITY = 8 FPS

PIPE SIZE	GPM	FIXTURE UNITS FLUSH TANK	FIXTURE UNITS FLUSH VALVE
1/2"	1.8	0	0
3/4"	4	4	0
1"	9	12	0
1-1/4"	18	26	0
1-1/2"	25	42	8
2"	50	127	48
2-1/2"	90	326	196

DHW PIPE SIZING SCHEDULE
MAXIMUM VELOCITY = 5 FPS

PIPE SIZE	GPM	FIXTURE UNITS FLUSH TANK	FIXTURE UNITS FLUSH VALVE
1/2"	3	3	0
3/4"	5	6	0
1"	8	10	0

DESCRIPTION	HOT AND COLD WATER				SEWER		
	NO. OF FIXTURES	F.U. PER FIXTURE	TOTAL FIXTURE UNITS		NO. OF FIXTURES	F.U. PER FIXTURE	TOTAL FIXTURE UNITS
			CW	HW			
WATER CLOSET (FLUSH VALVE)	5	5	25		5	4	20
LAVATORY	14	1	14	11	14	1	14
SINK	2	2	4	3	2	2	4
SHOWER	6	2	12	9	6		
MOP SINK	1	3	3	2.25	1		
SHOWER DRAIN	2	2			2	2	4
FLOOR DRAIN (EMERGENCY)	4						
TOTAL			58	26			42

MAIN DOMESTIC WATER SUPPLY SIZING:
BASED ON CPC 2001 EDITION, CHART A-2, A-3, & A-4 (TYPE-L)

WATER SUPPLY SIZING:

TOTAL FIXTURE UNITS: 58 GPM: 55
OTHERS: 0
TOTAL: 55

DESIGN WATER PRESSURE @ MAIN PIPE: 60 PSI
PER JEPF FRIEND OF CITY OF OCEANSIDE WATER DISTRICT
TEL. NO. 1-760-435-5901, JULY 28 2004.

LENGTH OF DOMESTIC WATER SYSTEM: 780
FROM WATER METER TO BUILDING N

PRV REQUIRED: YES

PRESSURE INSIDE BLDG.: 60 PSI
LOSSES:

WATER METER: 7 PSI

STATIC HEIGHT (15 FEET X .43): 7 PSI

RESIDUAL PRESSURE: 30 PSI

TOTAL LOSSES: 44 PSI

ALLOWABLE FRICTION LOSS PER 100': 15 PSI

16 X 100 = 2 PSI
780

VELOCITY NOT TO EXCEED 8 FT/SEC

DCW PIPE SIZING SCHEDULE
MAXIMUM VELOCITY = 8 FPS

PIPE SIZE	GPM	FIXTURE UNITS FLUSH TANK	FIXTURE UNITS FLUSH VALVE
1/2"	1.8	0	0
3/4"	4	4	0
1"	9	12	0
1-1/4"	18	26	0
1-1/2"	25	42	8
2"	50	127	48
2-1/2"	90	326	196

DHW PIPE SIZING SCHEDULE
MAXIMUM VELOCITY = 5 FPS

PIPE SIZE	GPM	FIXTURE UNITS FLUSH TANK	FIXTURE UNITS FLUSH VALVE
1/2"	3	3	0
3/4"	5	6	0
1"	8	10	0

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MIN. PIPE SIZE				DESCRIPTION
		CW	HW	V	S	
WC-1	WATER CLOSET (FLOOR MTD.)	1-1/2"	-	2"	4"	VITREOUS CHINA, LOW CONSUMPTION 1.6 GPF, 15" HIGH FLUSH VALVE
WC-1A	WATER CLOSET ACCESSIBLE (FLOOR MTD.)	1-1/2"	-	2"	4"	VITREOUS CHINA, LOW CONSUMPTION 1.6 GPF, 17" HIGH FLUSH VALVE
UR-1	URINALS (WALL MTD.)	1"	-	2"	2"	VITREOUS CHINA, LOW CONSUMPTION 1.0 GPF
UR-1A	URINALS ACCESSIBLE (WALL MTD.)	1"	-	2"	2"	VITREOUS CHINA, LOW CONSUMPTION 1.0 GPF
LV-1A	LAVATORY (ACCESSIBLE) (WALL MTD.)	3/4"	-	2"	2"	COLD WATER ONLY VITREOUS CHINA, FRONT OVERFLOW, 4" ON CENTER
LV-2A	LAVATORY (ACCESSIBLE) (WALL MTD.)	3/4"	3/4"	2"	2"	VITREOUS CHINA, FRONT OVERFLOW, 4" ON CENTER
SK-1A	CLASSROOM SINK COUNTER MTD (ACCESSIBLE)	3/4"	3/4"	2"	2"	SINGLE BOWL 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SELF RIMMING SINGLE BOWL WITH 3 HOLES, COLD AND HOT WATER
SK-2A	CLASSROOM SINK COUNTER MTD (ACCESSIBLE)	3/4"	-	2"	2"	SINGLE BOWL 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SELF RIMMING SINGLE BOWL WITH SINGLE HOLE, COLD WATER ONLY
SHR-1	SHOWER 3-PERSON UNIT WALL MOUNT	3/4"	3/4"	2"	2"	STAINLESS STEEL COVERING 18 GAUGE
SHR-1A	SHOWER ACCESSIBLE	3/4"	3/4"	-	-	WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE 30" SLIDE BAR FOR HAND SHOWER MOUNTING.
SHD-1	SHOWER DRAIN	-	-	2"	2"	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLAR, STRAINER: STAINLESS STEEL
DF-1A	DRINKING FOUNTAIN ACCESSIBLE	3/4"	-	2"	2"	DUAL LEVEL, STAINLESS STEEL
FD-1	FLOOR DRAIN	-	-	2"	2"	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLAR, STRAINER: STAINLESS STEEL
RD-1	ROOF DRAIN	-	-	-	SEE FLOOR PLAN	DURA-COATED CAST IRON BODY
OD-1	OVERFLOW DRAIN	-	-	-	SEE FLOOR PLAN	DURA-COATED CAST IRON BODY
HB-1	HOSE BIBB	3/4"	-	-	-	STAINLESS STEEL BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" STAMPED ON COVER.
MS-1	MOP SINK	3/4"	3/4"	2"	3"	FLOOR MOUNT
FS-1	FLOOR SINK	-	-	2"	2"	1/2 GRATE (NICKEL BRONZE) 12X12 TOP

DESCRIPTION	HOT AND COLD WATER				SEWER		
	NO. OF FIXTURES	F.U. PER FIXTURE	TOTAL FIXTURE UNITS		NO. OF FIXTURES	F.U. PER FIXTURE	TOTAL FIXTURE UNITS
			CW	HW			
WATER CLOSET (FLUSH VALVE)	1	5	5		1	4	4
LAVATORY	1	1	1	.75	1	1	1
FLOOR DRAIN (EMER)	1				1		
TOTAL			6	.75			5

MAIN DOMESTIC WATER SUPPLY SIZING:
BASED ON CPC 2001 EDITION, CHART A-2, A-3, & A-4 (TYPE-L)

WATER SUPPLY SIZING:

TOTAL FIXTURE UNITS: 6 GPM: 23
OTHERS: 0
TOTAL: 23

DESIGN WATER PRESSURE @ MAIN PIPE: 60 PSI
PER JEPF FRIEND OF CITY OF OCEANSIDE WATER DISTRICT
TEL. NO. 1-760-435-5901, JULY 28 2004.

LENGTH OF DOMESTIC WATER SYSTEM: 938
FROM WATER METER TO BUILDING P

PRV REQUIRED: YES

PRESSURE INSIDE BLDG.: 60 PSI
LOSSES:

WATER METER: 7 PSI

STATIC HEIGHT (15 FEET X .43): 7 PSI

RESIDUAL PRESSURE: 30 PSI

TOTAL LOSSES: 44 PSI

ALLOWABLE FRICTION LOSS PER 100': 15 PSI

16 X 100 = 32 PSI
938

VELOCITY NOT TO EXCEED 8 FT/SEC

DCW PIPE SIZING SCHEDULE
MAXIMUM VELOCITY = 8 FPS

PIPE SIZE	GPM	FIXTURE UNITS FLUSH TANK	FIXTURE UNITS FLUSH VALVE
1/2"	3	3	0
3/4"	5	10	0
1"	18	26	0
1-1/4"	30	64	13
1-1/2"	40	86	28
2"	70	225	108
2-1/2"	105	406	270

DHW PIPE SIZING SCHEDULE
MAXIMUM VELOCITY = 5 FPS

PIPE SIZE	GPM	FIXTURE UNITS FLUSH TANK	FIXTURE UNITS FLUSH VALVE
1/2"	3	3	0
3/4"	5	6	0
1"	8	10	0

CIRCULATION PUMP SCHEDULE

SYMBOL	LOCATION	MANUFACTURER	DESCRIPTION
CP-1	WH-1	"TACO"	PROVIDE CIRCULATING PUMP, "TACO" MODEL OOB PNP CIRCULATION PUMP WITH SIX FOOT LINE CORD, 24 HOUR ANALOG TIMER AND TEMPERATURE AQUASTAT, 8 GPM, 10 FT HEAD, 0.43 AMP, 115V, 1PH

WATER HEATER SCHEDULE FOR BLDG "N"

TAG	MANUFACTURER & MODEL NO.	LOCATION	STORAGE CAPACITY (GAL.)	GAS INPUT (BTU/H)	REMARKS	OPER. WEIGHT (LBS)
WH-1	A.O. SMITH BTH-120	WATER HEATER JANITORS ROOM	60	125,000	1 2 3 4 5 6 7 8	850
WH-2	LOW NOX					

- APPROVED FOR USE IN CALIFORNIA LOW NOX TYPE
- SEE WATER HEATER DETAIL ON 2/P3.1
- FULLY AUTOMATIC CONTROLS WITH SAFETY SHUTOFF.
- DIRECT VENT WATER HEATER, 3" PVC PIPE FOR VENTING AND AIR INTAKE. VERIFY PIPE SIZE WITH MANUFACTURER PRIOR TO START OF WORK.
- PROVIDE "POWERS" MIXING VALVE 1432-PC-E-M-O HI-LO SET AT 110°F.
- PROVIDE EXPANSION TANK FLEXCON MODEL WH-120, 32 GALLONS
- PROVIDE A.O. SMITH TWO UNIT MANIFOLD KIT (PART NUMBER 78692)
- PROVIDE ASME RATED PTR VALVE

EQUIPMENT SCHEDULE

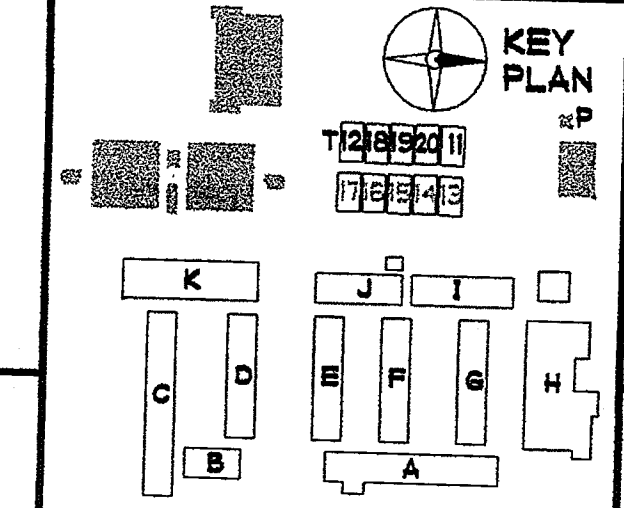
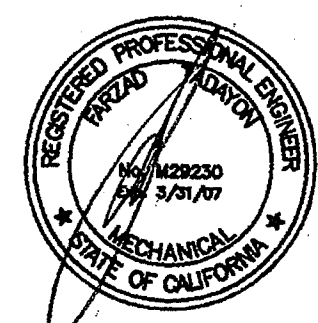
SYMBOL	EQUIPMENT	LOCATION	MANUF.	MODEL	REMARKS
TP 1	TRAP PRIMER	WALL	MIFAB	MI-500	"MIFAB" MI-500 WITH MI-DU 4 WAY DISTRIBUTION UNIT (IF APPLICABLE). SEE DETAIL 3/P3.1
WHA 1	WATER HAMMER ARRESTOR	VARIOUS (ABV CLG)	PPP, INC	"B"	PROVIDE WITH APPROVED ACCESS PANEL IF LOCATED IN HARDLID CEILING AREA. LOCATE AND INSTALL AS PER PDI-WH-201-C

ELECTRIC WATER HEATER SCHEDULE FOR BLDG "L"

TAG	MANUFACTURER	STORAGE CAPACITY (GALLONS)	ELECTRICAL			REMARKS
			KW	VOLT	PH.	
WH-3	"A.O. SMITH" DEL-20	20	6	208	1	1 2 3 4 5

- UL LISTED
- PROVIDE MOUNTING BRACKETS
- PROVIDE MIXING VALVE "POWER" MODEL E490-1
- SINGLE ELEMENT
- FOR DETAILS SEE 8/P3.1

T-SQUARED
PROFESSIONAL ENGINEERS, INC.
1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
#04036
03/18/2005



JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054

space
time
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GROTH ARCHITECTS, INC.

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OFFICE OF REGULATION SERVICES

4-106494

AC: P.B. P.B. 8/2/05

DATE: MAR 28 2005

4/30/2007 RENEWAL

STATE OF CALIFORNIA

SHEET TITLE

PLUMBING

LEGEND & NOTES

P-1.2

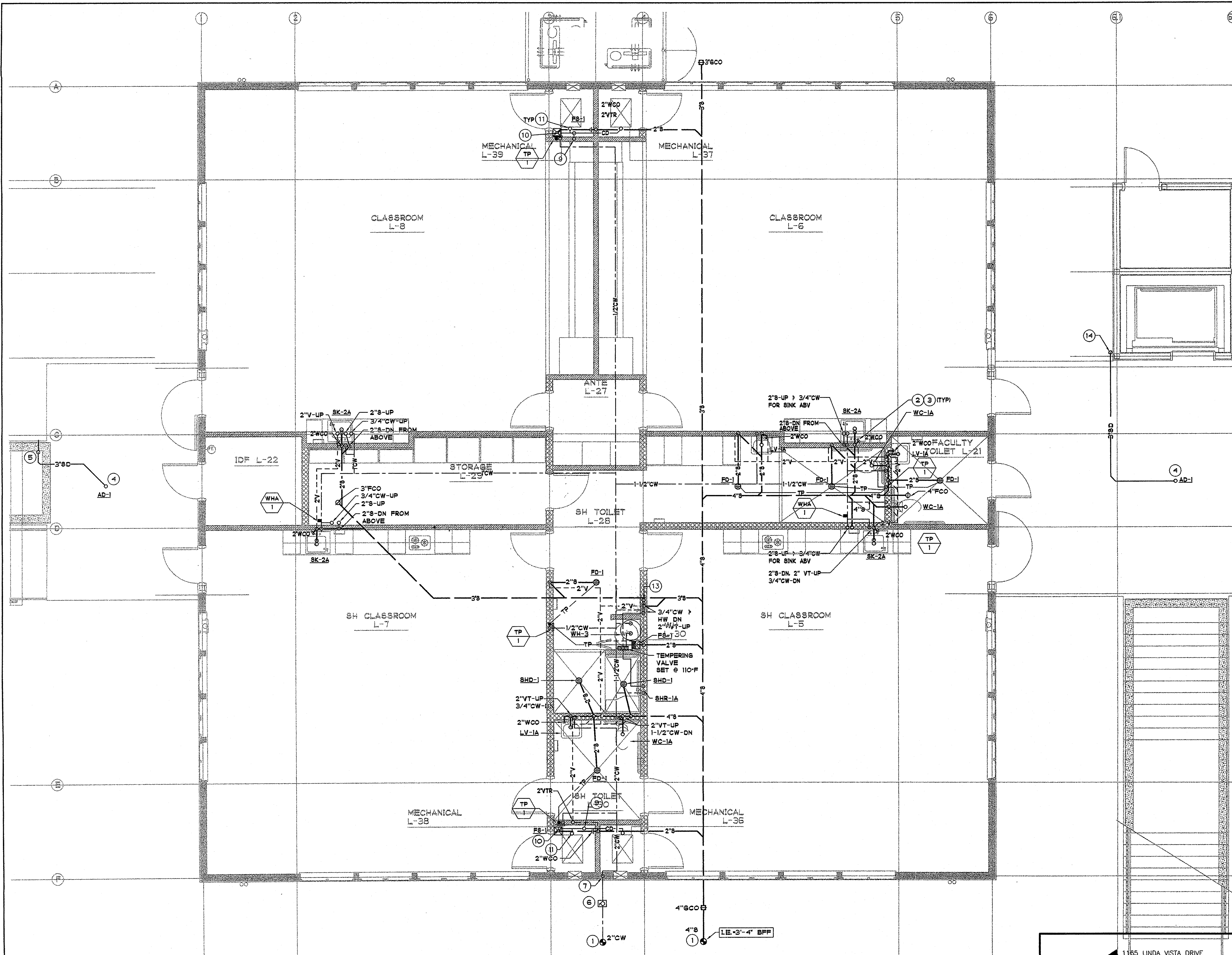
PHONE 760-754-8191

FAX 760-754-8291

SUITE 234

3355 MISSION AVE.

OCEANSIDE, CALIFORNIA 92054



- ### KEYNOTES
- 1 FOR CONTINUATION SEE CIVIL DRAWINGS
 - 2 2" VENT RISER
 - 3 2" SEWER UP TO SINK ON 2ND FLOOR
 - 4 3" STORM DRAIN UP TO AREA DRAIN ON 2ND FLOOR
 - 5 3" DRAIN DOWN ALONG WALL AND OUT THRU WALL. TERMINATE 6" ABOVE FINISHED GRADE AND SPILL TO GRADE
 - 6 BUILDING MAIN SHUT-OFF VALVE INSIDE CONCRETE UTILITY BOX MARKED "WATER"
 - 7 2" COLD WATER PIPING UP INSIDE WALL TO CEILING SPACE AND ROUTE AS INDICATED.
 - 8 3/4" COLD WATER DOWN AND UP FOR FIRST AND SECOND FLOOR CLASSROOM SINK.
 - 9 3/4" CONDENSATE DRAIN PIPING FROM ABOVE
 - 10 3/4" CONDENSATE DRAIN PIPING SPILL INTO FLOOR SINK
 - 11 3/4" CONDENSATE DRAIN FROM FAN COIL SEE DETAIL
 - 12 3" DRAIN DOWN INSIDE WALL AND OUT THRU WALL. TERMINATE 6" ABOVE FINISHED GRADE AND SPILL TO GRADE
 - 13 CLOTHESWASHER STANDPIPE SEE DETAIL 6/P3.1
 - 14 3" STORM DRAIN TO SPILL INTO DOWNSPOUT. SEE ARCHITECTURAL DRAWINGS.

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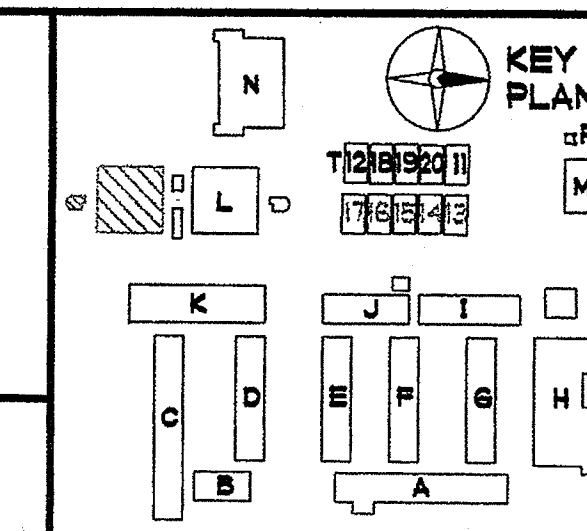
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 STATE OF CALIFORNIA

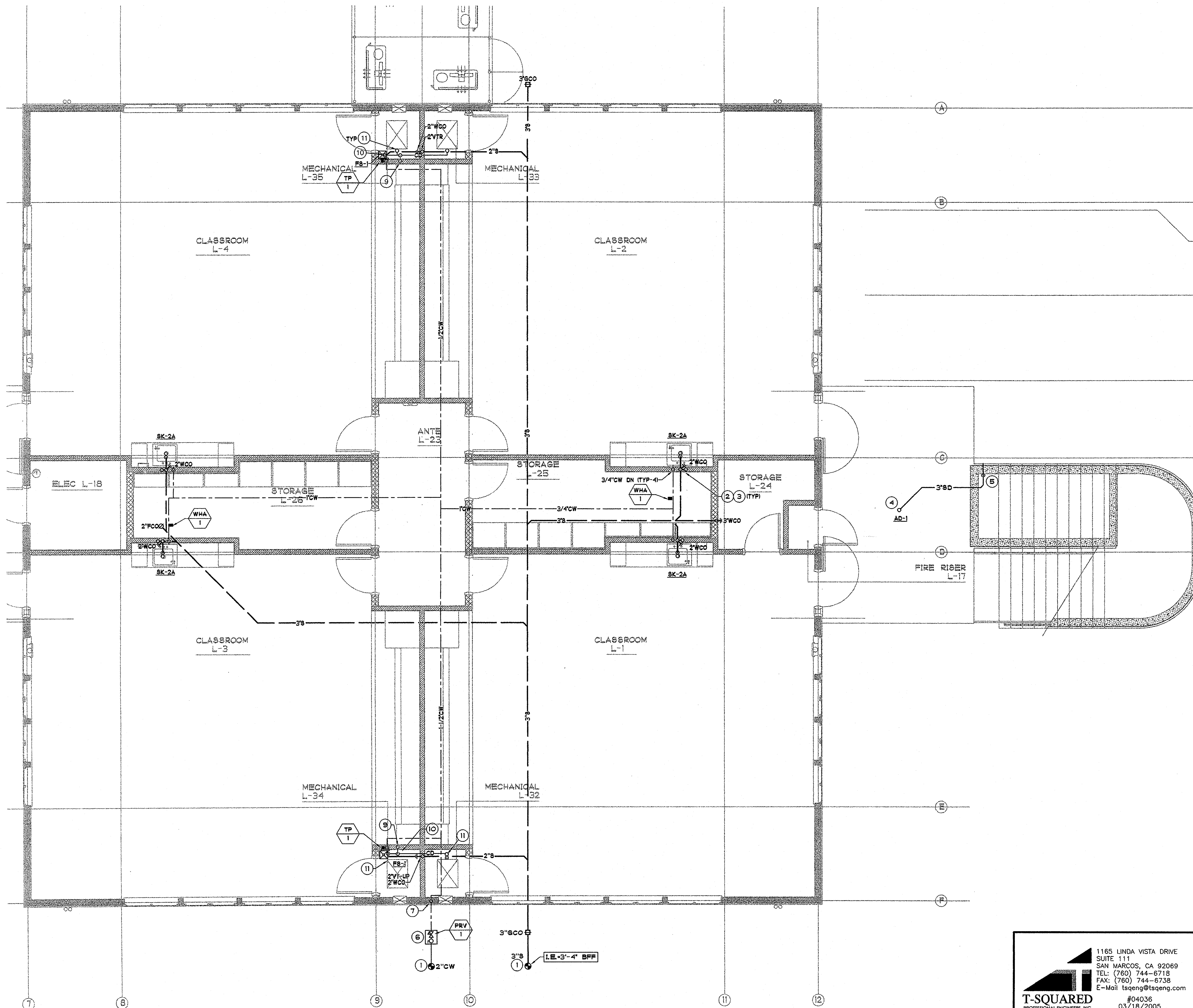
PLUMBING
 BLDG "L" SOUTH
 1ST FLOOR PLAN
 POL-2.1

BUILDING L FIRST FLOOR PLAN SOUTH - PLUMBING

1/4" = 1'-0"

1165 LINDA VISTA DRIVE
 SUITE 111
 SAN MARCOS, CA 92069
 TEL: (760) 744-6718
 FAX: (760) 744-6738
 E-Mail: tsqeng@tsqeng.com
 T-SQUARED
 PROFESSIONAL ENGINEERS, INC.
 #04036
 03/18/2005





KEYNOTES

- FOR CONTINUATION SEE CIVIL DRAWINGS
- 2" VENT RISER
- 2" SEWER UP TO SINK ON 2ND FLOOR
- 3" STORM DRAIN UP TO AREA DRAIN ON 2ND FLOOR
- 3" DRAIN DOWN ALONG WALL AND OUT THRU WALL. TERMINATE 6" ABOVE FINISHED GRADE AND SPILL TO GRADE
- BUILDING MAIN SHUT-OFF VALVE INSIDE CONCRETE UTILITY BOX MARKED "WATER"
- 2" COLD WATER PIPING UP INSIDE WALL TO CEILING SPACE AND ROUTE AS INDICATED.
- 3/4" COLD WATER DOWN AND UP FOR FIRST AND SECOND FLOOR CLASSROOM SINK.
- 3/4" CONDENSATE DRAIN PIPING FROM ABOVE.
- 3/4" CONDENSATE DRAIN PIPING SPILL INTO FLOOR SINK
- 3/4" CONDENSATE DRAIN FROM FAN COIL. SEE DETAIL.
- 3" DRAIN DOWN INSIDE WALL AND OUT THRU WALL. TERMINATE 6" ABOVE FINISHED GRADE AND SPILL TO GRADE.

4
P.3.1

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 823 ACACIA STREET
 OCEANSIDE, CA 92054
 OCEANSIDE UNIFIED S.D.

GROTH ARCHITECTS, INC.
 3355 MISSION AVE. SUITE 234
 OCEANSIDE, CALIFORNIA 92054
 PHONE 760-754-8191
 FAX 760-754-8291

C-26609
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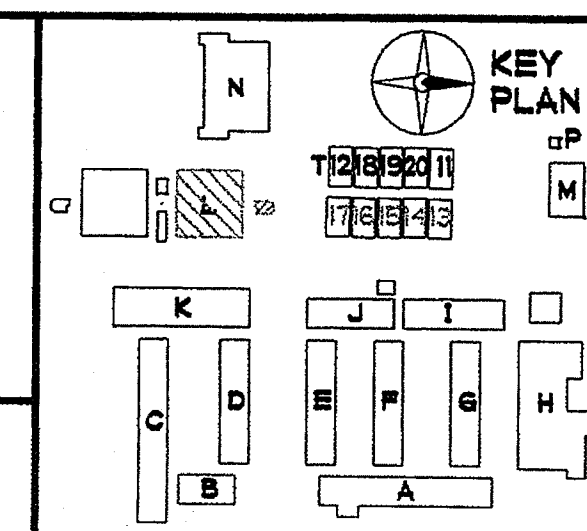
PLUMBING
 BLDG "L" NORTH
 1ST FLOOR PLAN

POL-2.2


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 1165 LINDA VISTA DRIVE
 SUITE 111
 SAN MARCOS, CA 92069
 TEL: (760) 744-6718
 FAX: (760) 744-6738
 E-Mail: tsqeng@tsqeng.com

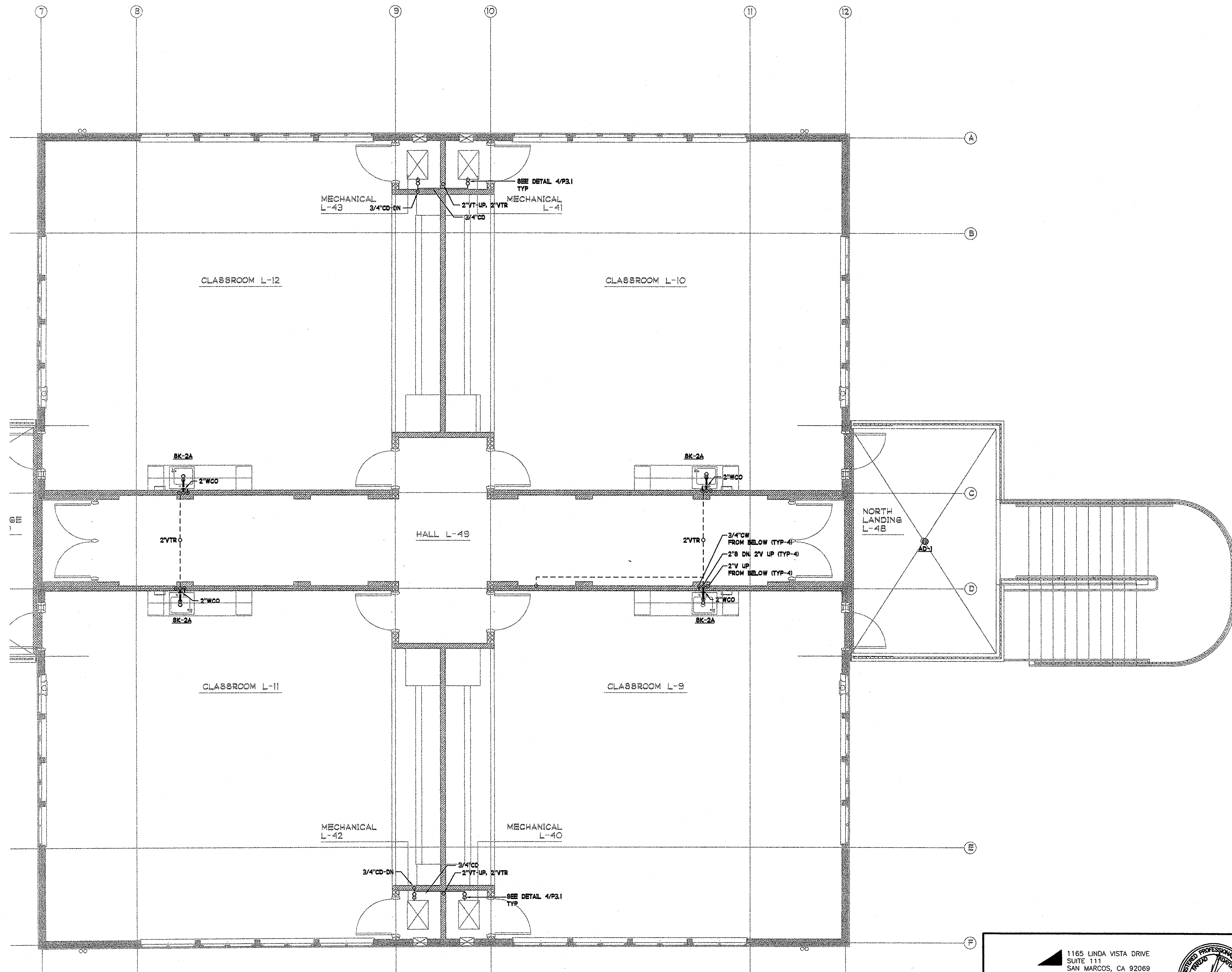
#04036
 03/18/2005

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. 422220
 Exp. 3/31/07



BUILDING L FIRST FLOOR PLAN NORTH - PLUMBING
 1/4" = 1'-0"

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DATE		92054	
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4-106494			
AC <i>PS</i> PLAN <i>11</i> OF <i>2</i>			
DATE <i>MAR 23 2006</i>			
			
SHEET TITLE			
PLUMBING BLDG 'L' SOUTH 2ND FLOOR PLAN			
POL-2.3			



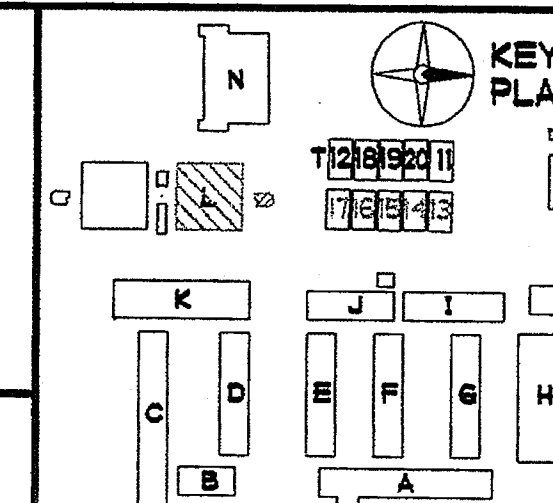
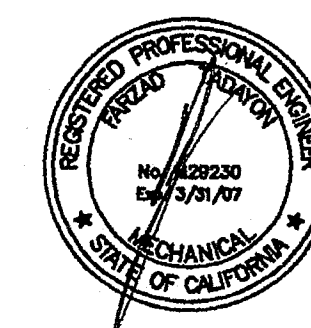
BUILDING L SECOND FLOOR PLAN NORTH - PLUMBING

1/4" = 1'-0"

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SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com

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PLUMBING
BLDG "L" NORTH
2ND FLOOR PLAN

POL-2.4

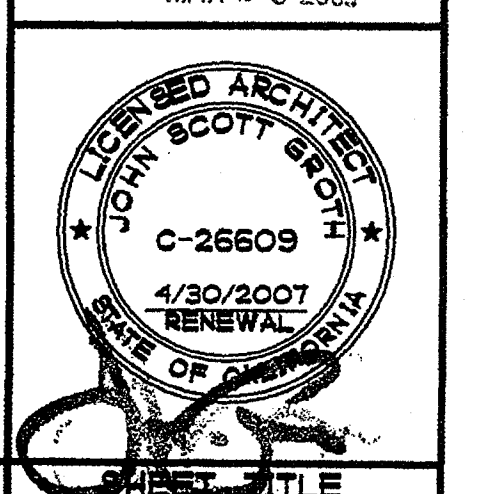
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OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
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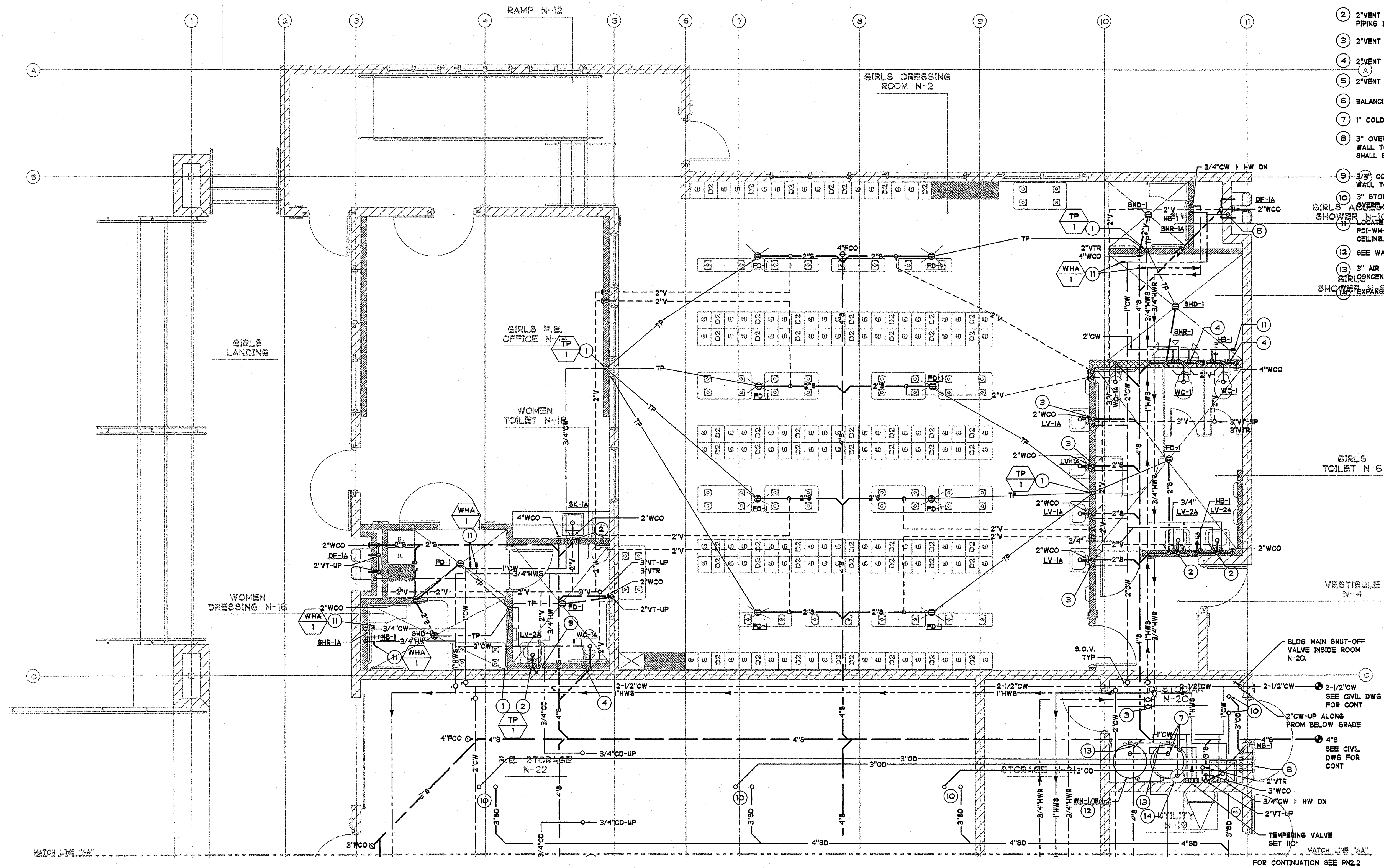
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AC 103 PLAN 88 27
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KEY NOTES

- 1/2" COLD WATER PIPING DOWN INSIDE WALL TO TRAP PRIMER VALVE
MIFAB MR-500. ROUTE 1/2" COPPER LINE BELOW SLAB TO FLOOR DRAIN.
PROVIDE ACCESS PANEL.
- 2" VENT PIPING UP, 2" SEWER PIPING DOWN, 3/4" COLD AND HOT WATER
PIPING DOWN.
- 2" VENT PIPING UP, 2" SEWER PIPING DOWN, 3/4" COLD DOWN
- 2" VENT PIPING UP, 1-1/2" COLD WATER DOWN
- 2" VENT PIPING UP, 3/4" COLD WATER DOWN
- BALANCING VALVE
- 1" COLD WATER AND HOT WATER DOWN WITH SHUT-OFF VALVE
- 3" OVERFLOW DRAIN DOWN ALONG WALL AND OUT THRU
WALL TO SPILL INTO THE DAYLIGHT. BOTTOM OF PIPE
SHALL BE 6" ABOVE FINISHED GRADE.
- 3/8" CONDENSATE DRAIN PIPING DOWN INSIDE WALL AND OUT THRU
WALL TO CONNECT TO TAILPIECE OF LAVATORY/HAND SINK
- 3" STORM DRAIN AND OVERFLOW DRAIN FROM ROOF DRAIN AND
GIRLS TOILET N-10 DRAIN ABOVE SEE PN-2.3
- LOCATE AND INSTALL WATER HAMMER ARRESTOR PER
PDI-WH-201-C. PROVIDE ACCESS PANEL IF ABOVE HARDLID
CEILING.
- SEE WATER HEATER DETAIL #2/P3.1
- 3" AIR INTAKE AND EXHAUST UP TO CONNECT TO
GIRLS CONCENTRIC VENT. SEE WATER HEATER DETAIL #2/P3.1
- SHOWER EXPANSION TANK. SEE WATER HEATER DETAIL #2/P3.1

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OCEANSIDE UNIFIED S.D.

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FAX 760-754-8291

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OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

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3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054

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DATE MAR 28 2005

JOHN SCOTT GROTH
C-26609
4/30/2007 RENEWAL
STATE OF CALIFORNIA

KEY PLAN

BUILDING N
FLOOR PLAN -
PLUMBING

PN-2.1

BUILDING N FLOOR PLAN - PLUMBING
1/4" = 1'-0"

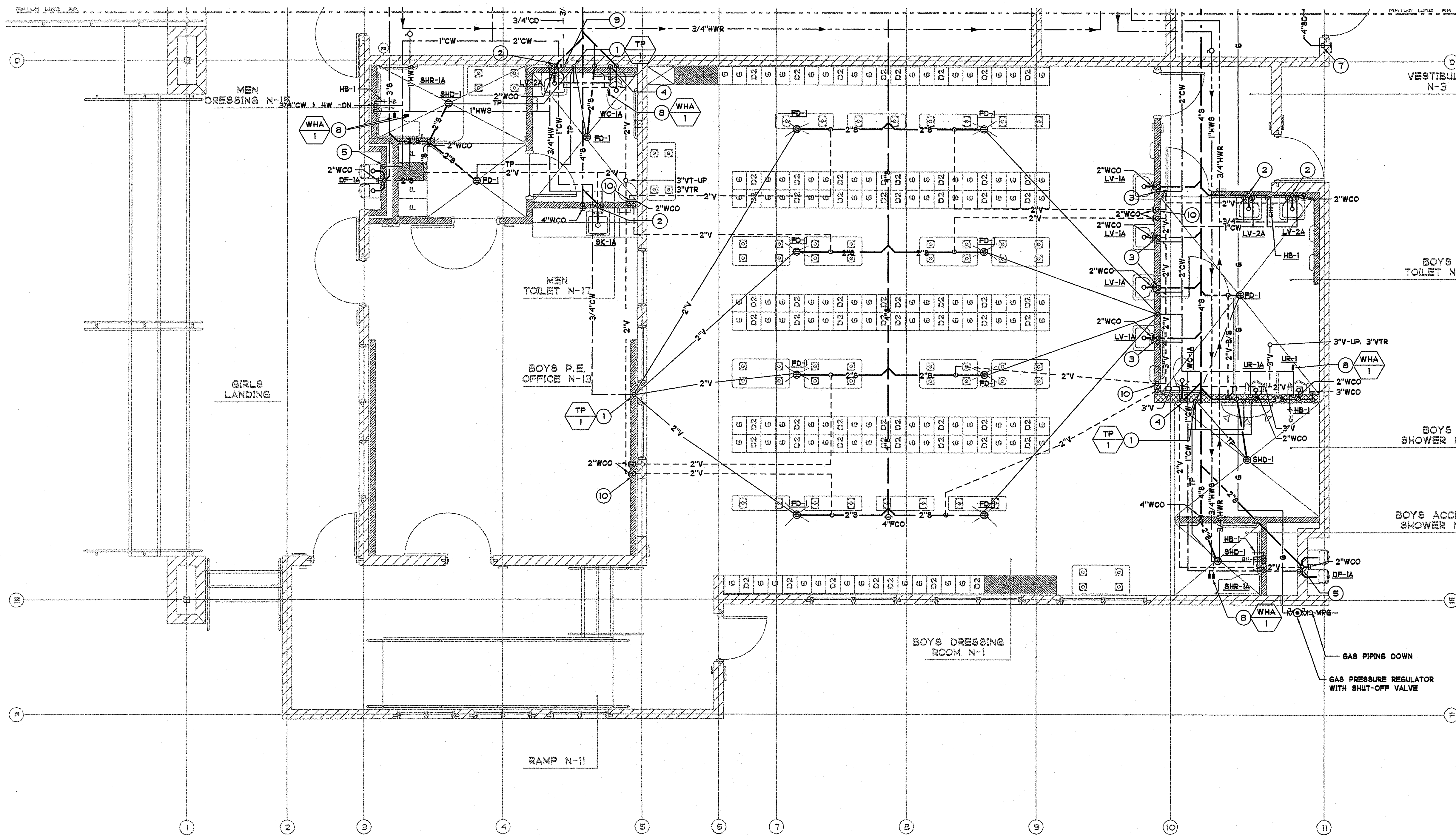
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1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com

#04036
03/18/2005

REGISTERED PROFESSIONAL ENGINEER
NO. 122320
EXPIRATION DATE 3/31/07
STATE OF CALIFORNIA

FOR CONT. SEE PN-2.1



KEY NOTES

- 1/2" COLD WATER PIPING DOWN INSIDE WALL TO TRAP PRIMER VALVE "MIFAB" MR-500. ROUTE 1/2" COPPER LINE BELOW SLAB TO FLOOR DRAIN. PROVIDE ACCESS PANEL.
- 2" VENT PIPING UP, 2" SEWER PIPING DOWN, 3/4" COLD AND HOT WATER PIPING DOWN.
- 2" VENT PIPING UP, 2" SEWER PIPING DOWN, 3/4" COLD DOWN.
- 2" VENT PIPING UP, 1-1/2" COLD WATER DOWN.
- 2" VENT PIPING UP, 3/4" COLD WATER DOWN.
- 3" STORM DRAIN AND OVERFLOW DRAIN FROM ROOF DRAIN AND OVERFLOW DRAIN FROM ABOVE. SEE PN-2.3.
- 4" STORM DRAIN DOWN INSIDE WALL AND OUT THRU WALL TO DAYLIGHT TO SPL. INTO CONCRETE SPLASH BLOCK. BOTTOM OF PIPE SHALL BE 6" ABOVE FINISHED GRADE.
- LOCATE AND INSTALL WATER HAMMER ARRESTOR PER PDI-WH-201-C. PROVIDE ACCESS PANEL IF ABOVE HARDLID CEILING.
- 3/4" CONDENSATE DRAIN PIPING DOWN INSIDE WALL AND OUT THRU WALL TO CONNECT TO TAILPIECE OF LAVATORY/HAND SINK.
- 2" VENT PIPING UP INSIDE WALL FROM BELOW GRADE TO CEILING SPACE.

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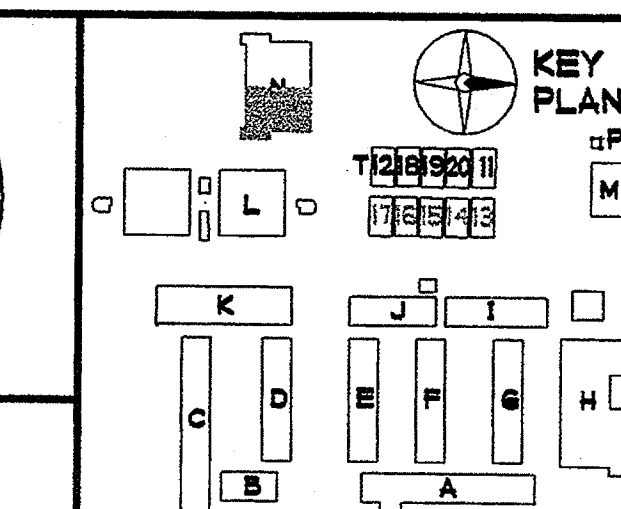
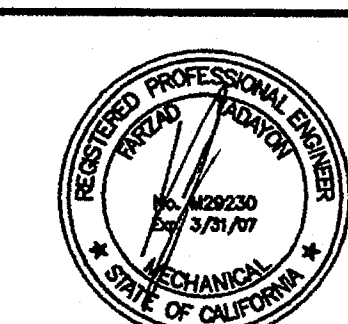
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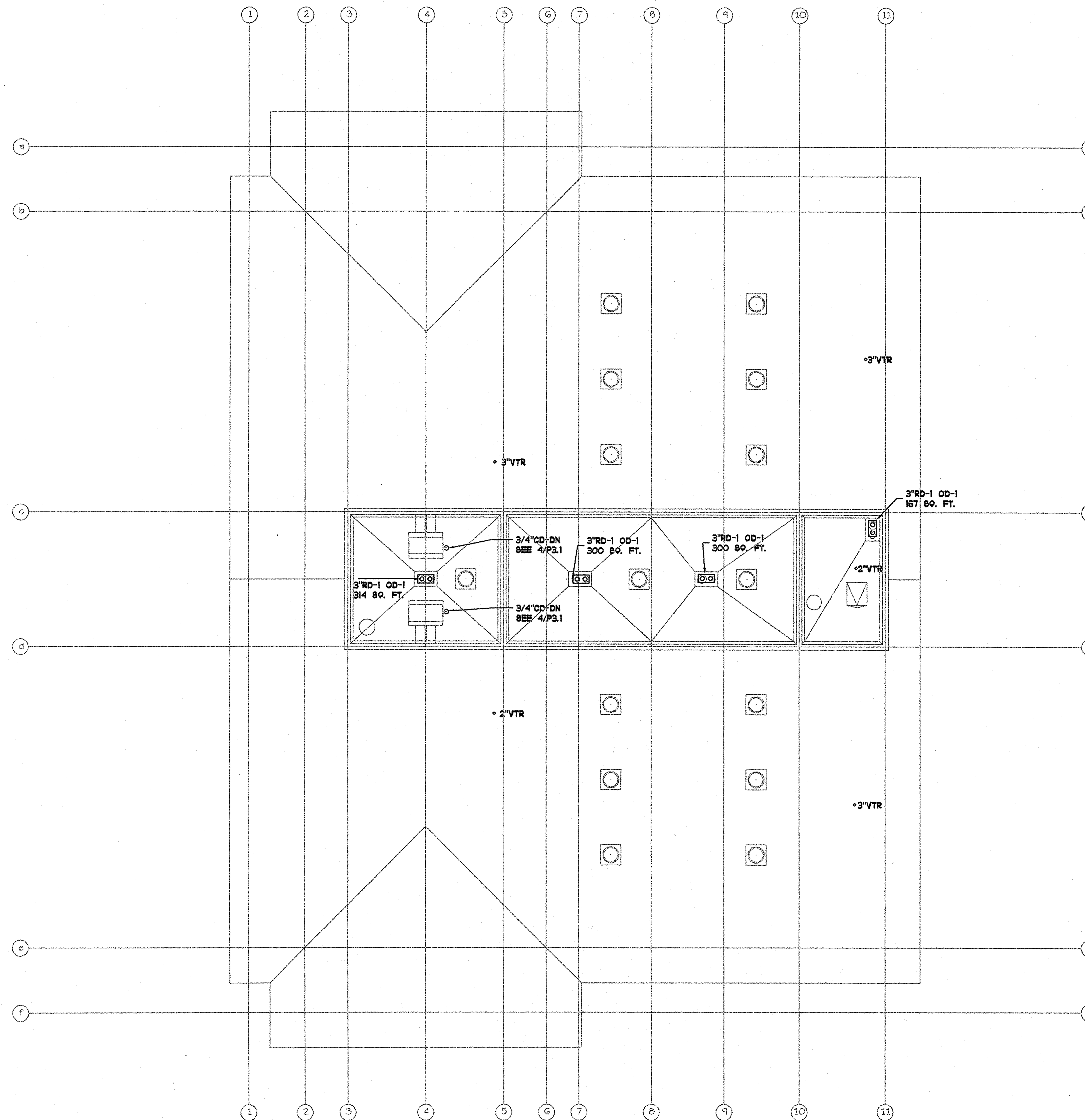
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C-26609
4/30/2007
RENEWAL
STATE OF CALIFORNIA

SHEET TITLE
BUILDING N
FLOOR PLAN -
PLUMBING
PN-2.2

1165 LINDA VISTA DRIVE
SUITE 111
SAN MARCOS, CA 92069
TEL: (760) 744-6718
FAX: (760) 744-6738
E-Mail: tsqeng@tsqeng.com
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BUILDING N FLOOR PLAN - PLUMBING
1/4" = 1'-0"



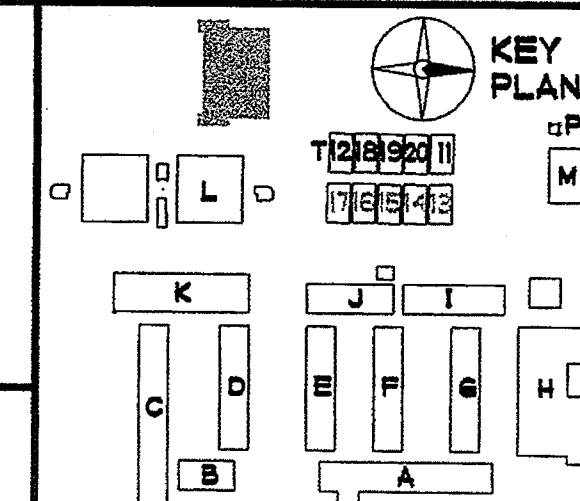
BUILDING N ROOF PLAN

1/8" = 1'-0"

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SUITE 111
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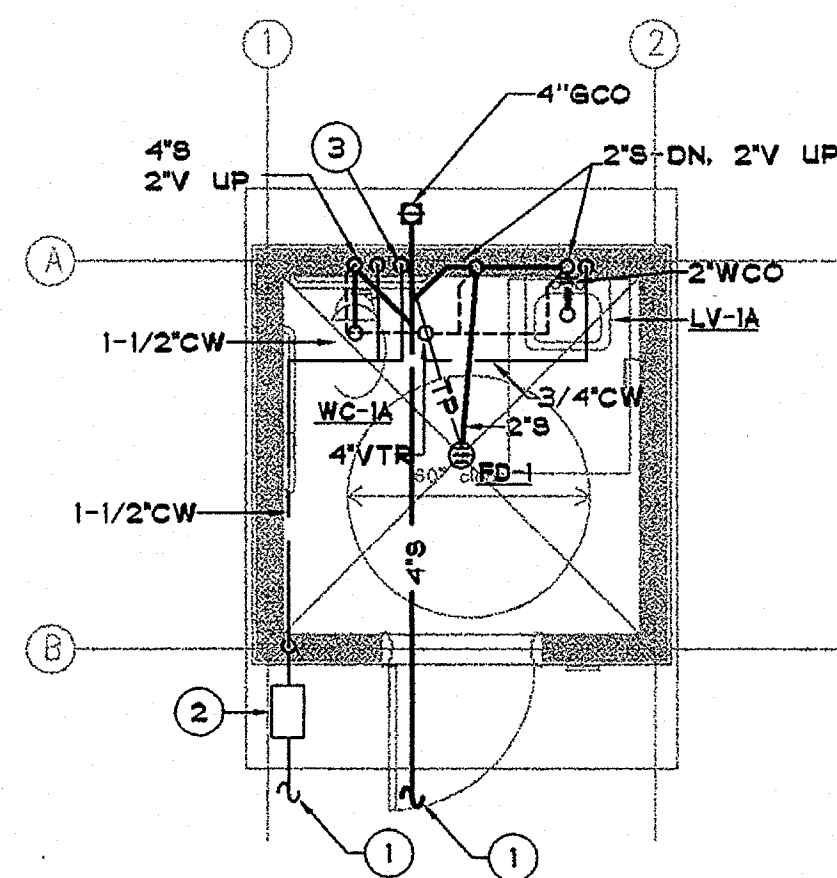
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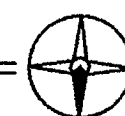
**BUILDING N
FLOOR PLAN -
PLUMBING**

PN-2.3

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<p>PLUMBING</p>		<p>REVISIONS</p>	
<p>DATE</p>		<p>DATE</p>	
<p>P. T. N.</p>		<p>P. T. N.</p>	
<p>PROJECT NOS.</p>		<p>PROJECT NOS.</p>	
<p>758-000</p>		<p>758-000</p>	
<p>025</p>		<p>025</p>	
<p>73569-9</p>		<p>73569-9</p>	
<p>PHONE 760-754-8191</p>		<p>PHONE 760-754-8191</p>	
<p>FAX 760-754-8291</p>		<p>FAX 760-754-8291</p>	



BUILDING P FLOOR PLAN - PLUMBING
 1/4" = 1'-0"



KEYNOTES

- FOR CONTINUATION OF COLD WATER AND SEWER LINES. SEE PLUMBING DRAWING P1.3 AND CIVIL DRAWINGS.
- BUILDING MAIN SHUT OFF VALVE INSIDE CONCRETE UTILITY BOX.
- 1/2" COLD WATER PIPING DOWN INSIDE WALL TO TRAP PRIMER VALVE "MIFAB" MR-500. ROUTE 1/2" COPPER LINE TO FLOOR DRAIN. PROVIDE "MIFAB" UNIVERSAL ACCESS PANEL.

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function



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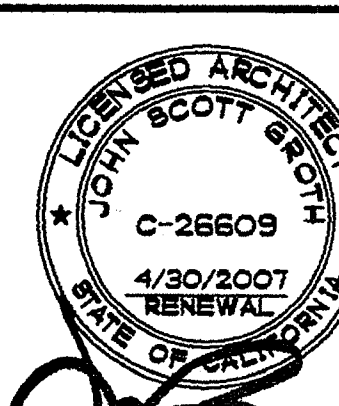
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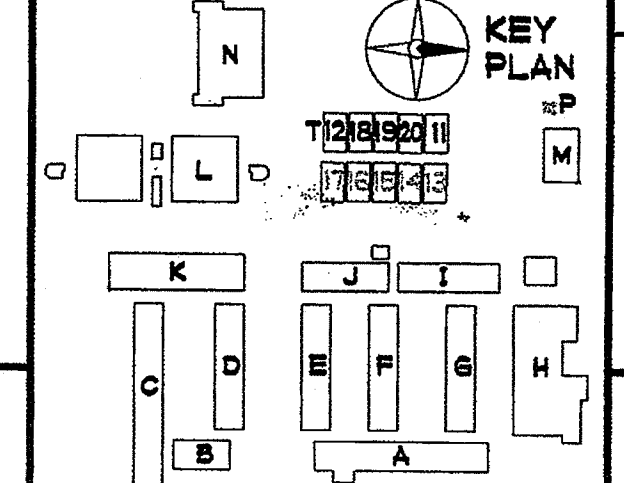


SHEET TITLE

**BUILDING P
 FLOOR PLAN -
 PLUMBING**

PP-2.1

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 1165 LINDA VISTA DRIVE
 SUITE 111
 SAN MARCOS, CA 92069
 TEL: (760) 744-6718
 FAX: (760) 744-6738
 E-Mail: tsqeng@tsqeng.com
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The logo of the American Society of Human Genetics (ASHG) is located in the top right corner. It consists of the letters "ASHG" in a bold, sans-serif font, with a small square symbol to the right of the "H".

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Abstract

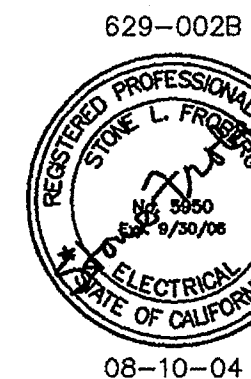
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Abstract

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LUMINAIRE SCHEDULE						
TYPE	MTG.	LAMP		LUMINAIRE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	REF. NOTES
		•	CODE WATT/LUMENS COLOR			
A	REC GRID	3	F032/T8/ XP8/ECO 32/3150 4100°K	2x4 RECESSED 3 LAMP TROFFER, 24-CELL 3" DEEP PARABOLIC LOUVER. ELECTRONIC BALLASTS, BI LEVEL SWITCHING, SECOND COMPARTMENT BALLAST. XP8 SERIES LAMP/ BALLAST COMBINATION.	COLUMBIA *P424-332G -LD38-S-EB8120XP8 -2BC- OR EQUAL	120W 120V
AE	REC GRID	3	F032/T8/ XP8/ECO 32/3150 4100°K	SAME AS TYPE 'A' EXCEPT WITH EM BATTERY PACK (NI-CAD, 90 MIN, 1400 LUMEN).	COLUMBIA *P424-332G -LD38-S-EB8120XP8 -2BC-EL14 OR EQUAL	120W 120V
AI	REC GRID	3	F032/T8/ XP8/ECO 32/3150 4100°K	SAME AS TYPE 'A' EXCEPT WITH DIMMING BALLAST (0-10V) FOR OPERATION WITH DAYLIGHT DIMMING CONTROLS	COLUMBIA *P424-332G -LD38-S-EB8120DIM0 -10V-2BC OR EQUAL	93W 120V
AIE	REC GRID	3	F032/T8/ XP8/ECO 32/3150 4100°K	SAME AS TYPE 'AI' EXCEPT WITH EMERGENCY BATTERY PACK (NI-CAD, 90 MIN, 1400 LUMEN)	COLUMBIA *P424-332G -LD38-S-EB8120DIM0 -10V-2BC-EL14 OR EQUAL	93W 120V
B	REC GRID	3	F032/T8/ XP8/ECO 32/3150 4100°K	2x4 FLUORESCENT TROFFER WITH PATTERN B ACRYLIC LENS AND XP8 SERIES LAMP/ BALLAST COMBINATION	COLUMBIA *P524-232G -FSA19-EB8120XP8 OR EQUAL	93W 120V
BE	REC GRID	3	F032/T8/ XP8/ECO 32/3150 4100°K	SAME AS 'B' EXCEPT WITH EM BATTERY PACK, 90 MIN 1400 LUMENS.	COLUMBIA *P524-232G -FSA19-EB8120XP8 -EL14 OR EQUAL	120W 120V
BI	REC GRID	2	F032/T8/ XP8/ECO 32/3150 4100°K	SIMILAR TO TYPE 'B' EXCEPT WITH TWO LAMPS.	COLUMBIA *P524-232G -FSA19-EB8120XP8 OR EQUAL	49W 120V
BIE	REC GRID	2	F032/T8/ XP8/ECO 32/3150 4100°K	SAME AS 'BI' EXCEPT WITH EM BATTERY PACK, 90 MIN 1400 LUMENS.	COLUMBIA *P524-232G -FSA19-EB8120XP8 -EL14 OR EQUAL	49W 120V
C	SURF. CLG.	1	F28/T8/841 28W/2300 4100°K	LOW PROFILE FLUORESCENT WALL LIGHTER, SEMI-ELLIPTICAL HOUSING, CONSISTING OF (3) 4" SECTIONS TANDEM MOUNTED.	ELLIPTIPAR *F144-T128S-22-1-0K-0	94W 120V LAMP PER 4' LENGTH
D	SURF.	2	F032/T8/ XP8/ECO 32/3150 4100°K	4' FLUORESCENT STRIP WITH ELECTRONIC BALLAST AND WIRE GUARD.	COLUMBIA C84-232-EB8-120XP8 C8UG4	49W 120V
DIE	SURF.	2	F032/T8/ XP8/ECO 25 4100°K	3' FLUORESCENT STRIP WITH ELECTRONIC BALLAST, EMERGENCY BATTERY PACK AND WIRE GUARD.	COLUMBIA C83-225-EB8-120 C8UG3-EL	50W 120V
DE	SURF.	2	F032/T8/ XP8/ECO 32/3150 4100°K	SIMILAR TO TYPE 'D' EXCEPT WITH EMERGENCY BATTERY PACK	COLUMBIA C84-232-EB8-120XP8 C8UG4-EL	49W 120V
E	SURF.	2	F032/T8/ XP8/ECO 32/3150 4100°K	1x4 FLUORESCENT FIXTURE WITH XP8 SERIES LAMP/ BALLAST COMBINATION.	COLUMBIA *P114-232-F8- A19-EB8-120XP8	49W 120V
EE	SURF.	2	F032/T8/ XP8/ECO 32/3150 4100°K	SAME AS TYPE 'E' EXCEPT WITH EMERGENCY BATTERY PACK	COLUMBIA *P114-232-F8- A19-EB8-120XP8-EL	49W 120V
F	REC.	2	F032/T8/ XP8/ECO 32/3150 4100°K	1x4 FLUORESCENT WITH IMPACT PRISMATIC LENS AND XP8 SERIES LAMP/ BALLAST COMBINATION.	COLUMBIA *P814-232F-F8- -DRI2-EB8120XP8	49W 120V
FE	REC.	2	F032/T8/ XP8/ECO 32/3150 4100°K	SIMILAR TO TYPE 'F' EXCEPT WITH EMERGENCY BATTERY PACK	COLUMBIA *P814-232F-F8- -DRI2-EB8120XP8-EL	49W 120V
G	REC.	2	CFQ18W/ G24D/3 18W/1250 4100°K	1 1/2" FLUORESCENT DOWNLIGHT WITH POLYCARBONATE LENS	KIRLIN *RRS0121-43	30W 120V
GE	REC.	2	CFQ18W/ G24D/3 18W/1250 4100°K	SIMILAR TO TYPE 'G' EXCEPT WITH EMERGENCY BATTERY PACK	KIRLIN *RRS0121-43-13	30W 120V
H	PEND	-	-	CEILING FAN WITH 52" BLADE, MULTI FAN CONTROL AND 3" RODS	MINIKA *P568-UH *FC-11 WESTINGHOUSE SAF-T-GRID12010	65W 120V
J	REC.	2	CFTR42W/ Gx24Q/4 42W/3200 4100°K	8" COMPACT FLUORESCENT RECESSED DOWNLIGHT WITH SPREAD LENS, DAMP LOCATION LISTED.	KIRLIN *RRS0326-13-46-	90W 120V
JE	REC.	2	CFTR42W/ Gx24Q/4 42W/3200 4100°K	SIMILAR TO TYPE 'J' EXCEPT WITH EMERGENCY BATTERY PACK	KIRLIN *RRS0326-13-46-13	90W 120V
K	REC.	1	CFTR42W/ Gx24Q/4 42W/3200 4100°K	8" COMPACT FLUORESCENT RECESSED DOWNLIGHT WITH SPREAD LENS, DAMP LOCATION LISTED.	KIRLIN *RRS0323-13-11-45-46-FT-FR	45W 120V
KE	REC.	1	CFTR42W/ Gx24Q/4 42W/3200 4100°K	SIMILAR TO TYPE 'K' EXCEPT WITH EMERGENCY BATTERY PACK	KIRLIN *RRS0323-13-11-45-46-FT-FR-13	45W 120V
L	SURF.	2	F032/T8/ XP8/ECO 32/3150 4100°K	4' FLUORESCENT FIXTURE WITH 1/8" POLYCARBONATE LENS AND ELECTRONIC BALLAST. UL LISTED FOR DAMP LOCATION.	MORLITE LPL-2000-232-EB120	59W 120V
LE	SURF.	2	F032/T8/ XP8/ECO 32/3150 4100°K	SIMILAR TO TYPE 'K' EXCEPT WITH EMERGENCY BATTERY PACK	MORLITE LPL-2000-232-EB120-EMG	59W 120V

LUMINAIRE SCHEDULE (continued)						
TYPE	MTG.	LAMP		LUMINAIRE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	REF. NOTES
		•	CODE WATT/LUMENS COLOR			
M	WALL	1	CFTR42W/ Gx24Q/4 42W/3200 4100°K	13" ROUND WALL MOUNTED FIXTURE WITH ELECTRONIC BALLAST, HIGH IMPACT POLYCARBONATE LENS.	KENALL *MR3CD-S-CC-42P-1-120-EB-9500	45W 120V
ME	WALL	1	CFTR42W/ Gx24Q/4 42W/3200 4100°K	SIMILAR TO TYPE 'M' EXCEPT WITH EMERGENCY BATTERY PACK.	KENALL *MR3CD-S-CC-42P-1-120-EB-EL-9500	45W 120V
X		N/A	N/A	SELF-ILLUMINATING EXIT SIGN WITH GREEN FACE WITH MOLDED ABS HOUSING, 125" THICK DIFFUSER PLATE AND 20 YEAR LIFE.	PERMEX *P-160-G-20-86	N/A
XI		N/A	N/A	SAME AS TYPE 'X' EXIT, EXCEPT DOUBLE FACED.	PERMEX *P-160-G-20-DF-86	N/A
SAI	POLE	1	L1150 CLEAR 150W	SINGLE POLE MOUNTED FIXTURE WITH ONE PIECE DIE CAST ALUMINUM HOUSING. MOUNTED AT 16' AFG ON CONCRETE POLE. FINISH DARK BRONZE.	KIM *1A-VL111W3-150HP8120-DBP	185W 120V SEE DETAIL 2/E4-2



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

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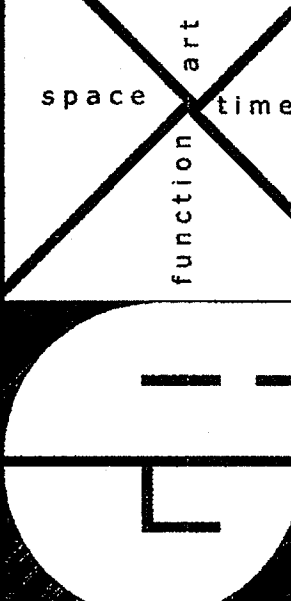
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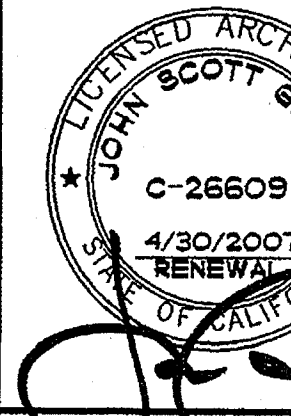
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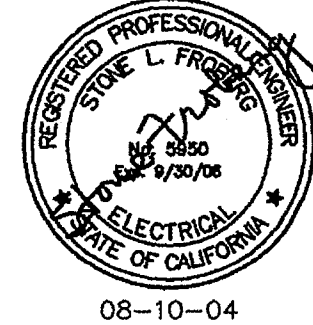
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LUMINAIRE SCHEDULE

EO-2



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ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

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DUCTBANK SCHEDULE ①								
TAG	POWER DUCTS			SIGNAL & COMMUNICATION DUCTS			FIRE ALARM DUCTS	
	CONDUIT	ASSIGNED USE	NOTES	CONDUIT	ASSIGNED USE	NOTES	CONDUIT	ASSIGNED USE
101	(8) 4" (4) 4"	3000C TO BLDG. L SPARE		X	X		X	X
102	X	X		(2) 4" (2) 2" (1) 2" (1) 2"	TEL/DATA INTERCOM/P.A. TV SECURITY SPARE	②	(1) 2"	FIRE ALARM
103	(8) 4" (4) 4"	3000C TO BLDG. L SPARE		(2) 4" (1) 2" (1) 2" (1) 2"	TEL/DATA INTERCOM/P.A. TV SECURITY SPARE	②	(1) 2"	FIRE ALARM
104	(8) 4" (2) 4"	3000C TO BLDG. L SPARE		X	X		X	X
105	(2) 4"	SPARE		(1) 4" (1) 2" (1) 2" (1) 2"	TEL/DATA (SPARE) INTERCOM/P.A. (SPARE) TV (SPARE) SECURITY (SPARE) SPARE	②	(1) 2"	FIRE ALARM
106	X	X		(1) 4" (1) 4"	TEL/DATA INTERCOM/P.A./TV SPARE	②		
201	(1) 3" (1) 3"	3000B TO BLDG. N SPARE		(1) 4" (1) 2" (1) 2" (1) 2"	TEL/DATA INTERCOM/P.A. TV SECURITY SPARE	②	(1) 2"	FIRE ALARM
202	(2) 4"	SPARE		(1) 2" (1) 2" (1) 2"	INTERCOM/P.A. TV SECURITY SPARE		(1) 2"	FIRE ALARM
203	(1) 3"	3000B TO BLDG. N		(1) 2"	LIGHTING CONTROLS		X	X

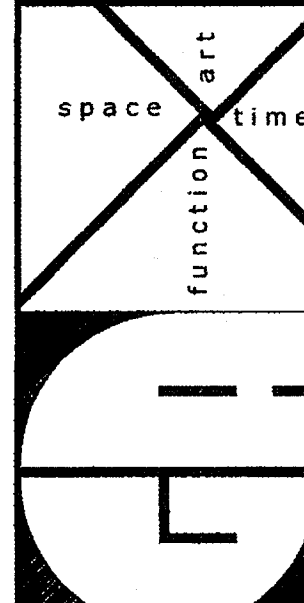
SCHEDULE NOTES:

- ① FOR ENCASUREMENT REQUIREMENTS SEE E4-1
② PROVIDE 50% OF THE 4" CONDUITS WITH 1-1" INNERDUCT AND 2-1/4" INNERDUCT.

5
E4-1

FEEDER SCHEDULE													
NOTES FOR SCHEDULE: 1. ALL CONDUCTORS SHALL BE COPPER TYPE WITH (DUAL RATED) THHN/THWN INSULATION. 2. 60 DEG. C. TERMINATION FOR CONDUCTORS #2 AWG AND SMALLER. 75 DEG. C. TERMINATION FOR #1 AWG AND LARGER. 3. EG = EQUIPMENT GROUND CONDUCTOR. (N) = NEUTRAL CONDUCTOR. 4. ONE CONDUIT PER FEEDER UNLESS OTHERWISE NOTED BY (NUMBER OF SETS). 5. CONDUIT SIZES SHOWN ARE MINIMUM. PROVIDE LARGER CONDUIT WHERE INDICATED ON PLANS OR DUCTBANK SCHEDULE.													
ID. NO.	QTY. IF NOT ONE	CONDUIT SIZE				CONDUCTORS IN EACH CONDUIT	ID. NO.	QTY. IF NOT ONE	CONDUIT SIZE				CONDUCTORS IN EACH CONDUIT
		METAL		PLASTIC					METAL		PLASTIC		
		INCHES	mm	INCHES	mm			INCHES	mm	INCHES	mm		
20A		1/2"	16mm	1/2"	16mm	3 #12 + 1 #12 EG	300A		3"	78mm	3"	78mm	3 350 kcmil + 1 #4 EG
20B		1/2"	16mm	1/2"	16mm	4 #12 + 1 #12 EG	300B		3"	78mm	3"	78mm	4 350 kcmil + 1 #4 EG
30A		1/2"	16mm	3/4"	21mm	3 #10 + 1 #10 EG	300C		3-1/2"	91mm	3-1/2"	91mm	5 350 kcmil + 1 #4 EG
30B		1/2"	16mm	3/4"	21mm	4 #10 + 1 #10 EG	300D		3"	78mm	3"	78mm	4 350 kcmil + 1 #1 EG
40A		3/4"	21mm	3/4"	21mm	3 #8 + 1 #10 EG	350A		3"	78mm	3-1/2"	91mm	3 500 kcmil + 1 #2 EG
40B		3/4"	21mm	1"	27mm	4 #8 + 1 #10 EG	350B		3-1/2"	91mm	3-1/2"	91mm	4 500 kcmil + 1 #2 EG
50A		3/4"	21mm	1"	27mm	3 #6 + 1 #10 EG	350C		4"	103mm	4"	103mm	5 500 kcmil + 1 #2 EG
50B		3/4"	27mm	1"	27mm	4 #6 + 1 #10 EG	400A		3"	78mm	3-1/2"	91mm	3 600 kcmil + 1 #2 EG
60A		1"	27mm	1-1/4"	35mm	3 #4 + 1 #10 EG	400B		3-1/2"	91mm	4"	103mm	4 600 kcmil + 1 #2 EG
60B		1-1/4"	35mm	1-1/4"	35mm	4 #4 + 1 #10 EG	400C		4"	103mm	5"	129mm	5 600 kcmil + 1 #2 EG
60C		1-1/4"	35mm	1-1/4"	35mm	3 #4 + 1 #1(N) + 1 #10 EG	400T		3-1/2"	91mm	4"	103mm	4 600 kcmil + 1 #1/0 GRD.
60T		1-1/4"	35mm	1-1/4"	35mm	4 #4 + 1 #8 GRD.	450A	(2)	2-1/2"	63mm	2-1/2"	63mm	3 #4/0 + 1 #2 EG
70A		1"	27mm	1-1/4"	35mm	3 #4 + 1 #8 EG	450B	(2)	2-1/2"	63mm	3"	78mm	4 #4/0 + 1 #2 EG
70B		1-1/4"	35mm	1-1/4"	35mm	4 #4 + 1 #8 EG	450C	(2)	3"	78mm	3"	78mm	5 #4/0 + 1 #2 EG
70F		1-1/2"	41mm	1-1/2"	41mm	4 #4 + 1 #4 EG	500A	(2)	2-1/2"	63mm	2-1/2"	63mm	3 250 kcmil + 1 #2 EG
80A		1-1/4"	35mm	1-1/4"	35mm	3 #2 + 1 #8 EG	500B	(2)	3"	78mm	3"	78mm	4 250 kcmil + 1 #2 EG
80B		1-1/4"	35mm	1-1/2"	41mm	4 #2 + 1 #8 EG	500C	(2)	3"	78mm	3"	78mm	5 250 kcmil + 1 #2 EG
90A		1-1/4"	35mm	1-1/4"	35mm	3 #2 + 1 #8 EG	500T	(2)	3"	78mm	3"	78mm	4 250 kcmil + 1 #1/0 kcmil GRD.
90B		1-1/4"	35mm	1-1/2"	41mm	4 #2 + 1 #8 EG	600A	(2)	3"	78mm	3"	78mm	3 350 kcmil + 1 #1 EG
100A		1-1/4"	35mm	1-1/4"	35mm	3 #2 + 1 #8 EG	600B	(2)	3"	78mm	3"	78mm	4 350 kcmil + 1 #1 EG
100B		1-1/4"	35mm	1-1/2"	41mm	4 #2 + 1 #8 EG	600C	(2)	3-1/2"	91mm	3-1/2"	91mm	5 350 kcmil + 1 #1 EG
100C		1-1/2"	41mm	2"	53mm	3 #2 + 1 #3/0 (N)+1 #8 EG	600T	(2)	3"	78mm	3"	78mm	4 350 kcmil + 1 #2/0 GRD.
125A		1-1/4"	35mm	1-1/2"	41mm	3 #1 + 1 #6 EG	700A	(2)	3"	78mm	3"	78mm	3 500 kcmil + 1 #1/0 EG
125B		1-1/2"	41mm	2"	53mm	4 #1 + 1 #6 EG	700B	(2)	3-1/2"	91mm	3-1/2"	91mm	4 500 kcmil + 1 #1/0 EG
125C		2"	53mm	2"	53mm	3 #1, 1 250 kcmil (N)+1 #6 EG	700C	(2)	4"	103mm	4"	103mm	5 500 kcmil + 1 #1/0 EG
150A		1-1/2"	41mm	1-1/2"	41mm	3 #1/0 + 1 #6 EG	800A	(2)	3-1/2"	91mm	3-1/2"	91mm	3 600 kcmil + 1 #1/0 EG
150B		2"	53mm	2"	53mm	4 #1/0 + 1 #6 EG	800B	(2)	4"	103mm	4"	103mm	4 600 kcmil + 1 #1/0 EG
150C		2"	53mm	2"	53mm	5 #1/0 + 1 #6 EG	800C	(2)	4"	103mm	5"	129mm	5 600 kcmil + 1 #1/0 EG
150T		2"	53mm	2"	53mm	4 #1/0 + 1 #4 GRD.	800T	(2)	4"	103mm	4"	103mm	4 600 kcmil + 1 #3/0 GRD.
150L		2-1/2"	63mm	2-1/2"	63mm	4 #1/0 + 1 #6 GRD.	1000A	(3)	3-1/2"	91mm	3-1/2"	91mm	3 500 kcmil + 1 #2/0 EG
175A		1-1/2"	41mm	2"	53mm	3 #2/0 + 1 #6 EG	1000B	(3)	4"	103mm	4"	103mm	4 500 kcmil + 1 #2/0 EG
175B		2"	53mm	2"	53mm	4 #2/0 + 1 #6 EG	1000C	(3)	4"	103mm	4"	103mm	5 500 kcmil + 1 #2/0 EG
175C		2"	53mm	2-1/2"	63mm	5 #2/0 + 1 #6 EG	1000F	(3)	4"	103mm	4"	103mm	4 600 kcmil + 1 #4/0 EG
200A		2"	53mm	2"	53mm	3 #3/0 + 1 #6 EG	1000T	(3)	4"	103mm	4"	103mm	4 500 kcmil + 1 #4/0 GRD.
200B		2-1/2"	63mm	2-1/2"	63mm	4 #3/0 + 1 #6 EG	1200A	(4)	3"	78mm	3"	78mm	3 350 kcmil + 1 #3/0 EG
200C		2-1/2"	63mm	2-1/2"	63mm	5 #3/0 + 1 #6 EG	1200B	(4)	3-1/2"	91mm	3-1/2"	91mm	4 350 kcmil + 1 #3/0 EG
225A		2"	53mm	2-1/2"	63mm	3 #4/0 + 1 #4 EG	1200C	(4)	3-1/2"	91mm	3-1/2"	91mm	5 350 kcmil + 1 #3/0 EG
225B		2-1/2"	63mm	2-1/2"	63mm	4 #4/0 + 1 #4 EG	1600A	(4)	3-1/2"	91mm	3-1/2"	91mm	3 600 kcmil + 1 #4/0 EG
225C		3"	78mm	3"	78mm	5 #4/0 + 1 #4 EG	1600B	(4)	4"	103mm	4"	103mm	4 600 kcmil + 1 #4/0 EG
225T		2-1/2"	63mm	2-1/2"	63mm	4 #4/0 + 1 #2 GRD.	1600C	(4)	4"	103mm	5"	129mm	5 600 kcmil + 1 #4/0 EG
250A		2-1/2"	63mm	2-1/2"	63mm	3 250 kcmil + 1 #4 EG	2000A	(5)	4"	103mm	4"	103mm	3 600 kcmil + 1 250 kcmil EG
250B		3"	78mm	3"	78mm	4 250 kcmil + 1 #4 EG	2000B	(5)	4"	103mm	4"	103mm	4 600 kcmil + 1 250 kcmil EG
250C		3"	78mm	3"	78mm	5 250 kcmil + 1 #4 EG	2500A	(6)	4"	103mm	4"	103mm	3 600 kcmil + 1 350 kcmil EG
250T		3"	78mm	3"	78mm	4 250 kcmil + 1 #2 GRD.	2500B	(6)	4"	103mm	4"	103mm	4 600 kcmil + 1 350 kcmil EG
							3000A	(8)	4"	103mm	4"	103mm	3 600 kcmil + 1 400 kcmil EG
							3000B	(8)	4"	103mm	4"	103mm	4 600 kcmil + 1 400 kcmil EG
							3000C	(8)	4"	103mm	4"	103mm	4 600 kcmil + 1 600 kcmil EG
							4000A	(10)	4"	103mm	4"	103mm	3 600 kcmil + 1 500 kcmil EG
							4000B	(10)	4"	103mm	4"	103mm	4 600 kcmil + 1 500 kcmil EG

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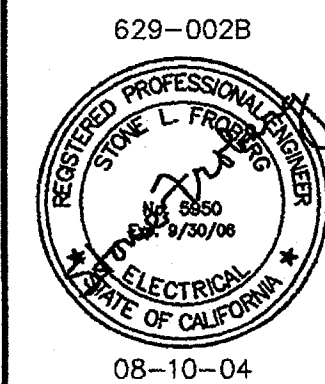
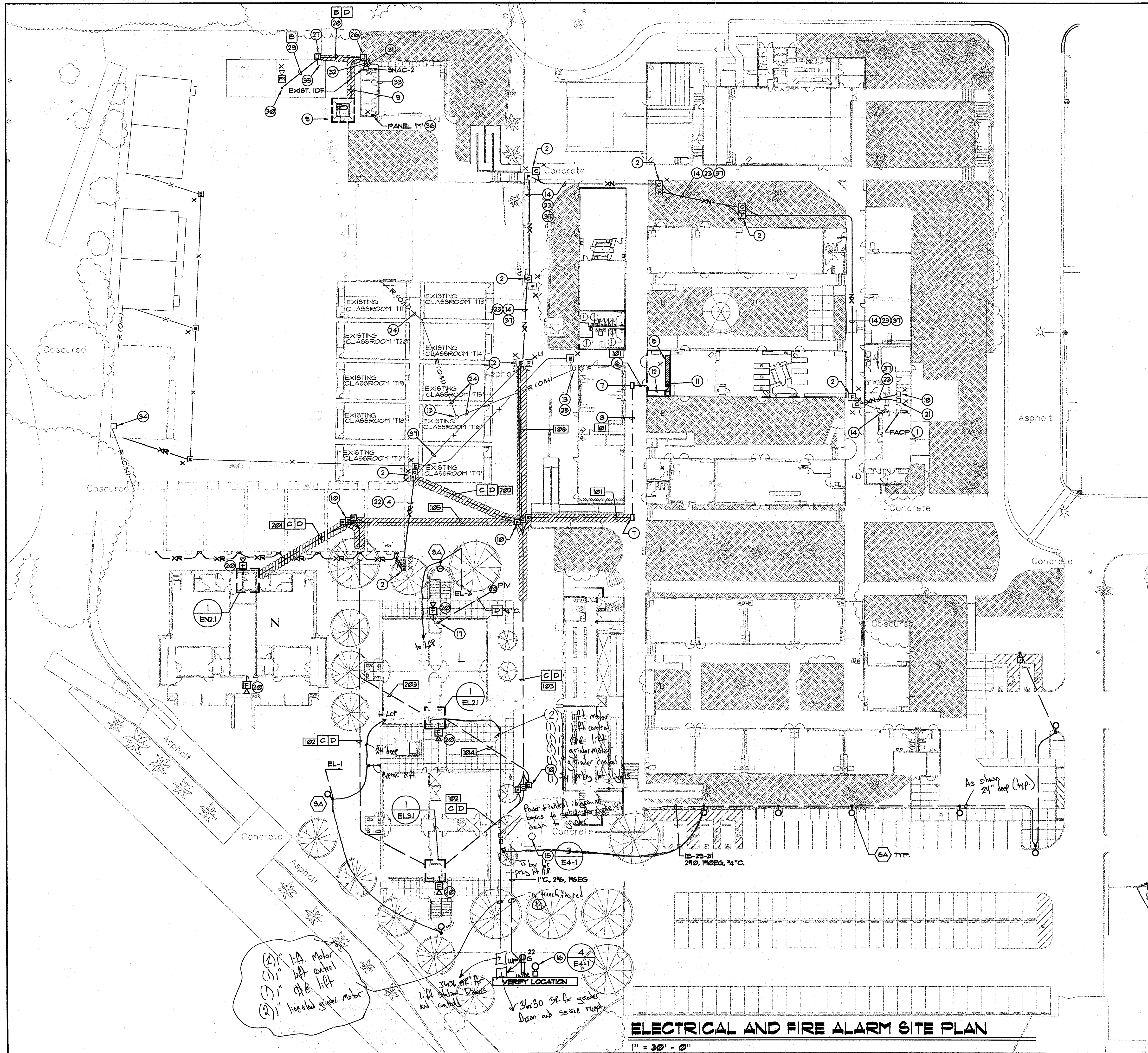
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3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

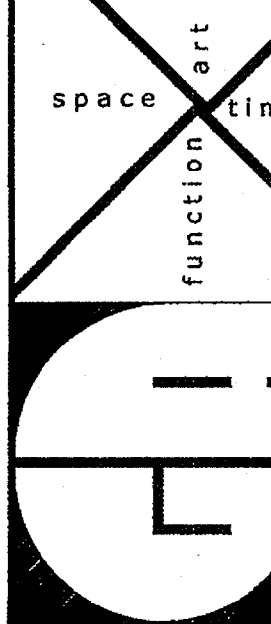
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3355 MISSION AVE. SUITE 234
OCEANSIDE, CA 92054
PHONE 760-754-8191
FAX 760-754-8291

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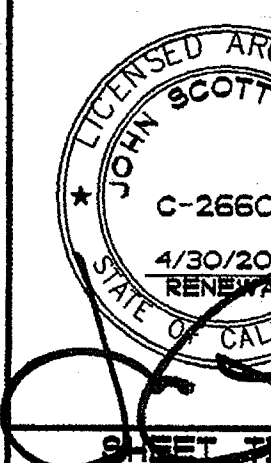
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**ELECTRICAL AND
FIRE ALARM
SITE PLAN**

E-1

SHEET NOTES:

- EXISTING FIRE ALARM CONTROL PANEL FCI-T200A1.
- EXISTING FIRE ALARM AND COMMUNICATION UNDERGROUND FULLBOX TO REMAIN.
- EXISTING UNDERGROUND FULL BOXES TO REMAIN.
- REMOVE EXISTING FIRE ALARM CABLES (INITIATING LOOP AND SNAC TRIP CIRCUITS) AND RECONNECT TO RELOCATED SNAC-T. SEE SHEET ETI-1.
- EXISTING MAIN SWITCHBOARD.
- RUN UNDERGROUND TO EXISTING UTILITY TUNNEL. CUT, PATCH AND REPAIR SURFACE TO MATCH EXISTING.
- FULLBOX IN TUNNEL. 36" x 36" x 12" DEEP.
- RUN EXPOSED ON WALL OF TUNNEL.
- SEE SHEET EPI-1 FOR ADDITIONAL WORK.
- POWER, SIGNAL, AND FIRE ALARM FULLBOXES PER DETAIL. (1) E4-3
- PROVIDE AND EXTEND SWITCHBOARD SECTION, SEE SINGLE LINE DIAGRAM.
- ROUTE FEEDER CONDUITS EXPOSED IN ELECTRICAL ROOM AND DOWN TO TUNNEL.
- REMOVE EXISTING POLE AND CONDUIT RISER.
- EXISTING INITIATING LOOP AND SNAC TRIP SIGNAL TO REMAIN.
- EXISTING SEWER VAULT WITH GRINDER SHP, 208V-3P.
- SEWER LIFT STATION WITH DUPLEX LIFT PUMPS, (2) SHP, 208V-3P.
- CONNECT TO TAMPER SWITCH IN FIRE RISER ROOM.
- EXISTING DATA 'MDF' EQUIPMENT.
- 1" C, 2 #, 1 #EG. TO RECEPTACLE IN ELEC. RM. 118. SEE SHEET E3-1.
- SEE FIRE ALARM FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
- EXISTING COMMUNICATION AND CATV HEAD END EQUIPMENT.
- REMOVE AND PULL EXISTING FIBER, TELEPHONE AND TV CABLES BACK TO EXISTING UNDERGROUND FULL BOX AND TERMINATE IN EXISTING 'IDF' CABINET IN ROOM T11. SEE ETI-1 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE 1-1" INNERDUCT AND 2-1/4" INNERDUCT IN EXISTING 4" C.
- REMOVE ALL EXISTING OVERHEAD CABLES. COORDINATE WITH DISTRICT PERSONNEL.
- CAP EXISTING 2-3" UNDERGROUND CONDUITS.
- PROVIDE 18" SQ. x 6" DEEP NEMA 3R JUNCTION BOX WITH BARRIER FOR FIRE ALARM CABLES. MOUNT AT 10'-0" AFF.
- PROVIDE 18" SQ. x 6" DEEP NEMA 3R JUNCTION BOX WITH BARRIER FOR FIRE ALARM CABLES. MOUNT BOX AT CEILING LEVEL. PROVIDE 2-2" C. SLEEVES ABOVE ACCESSIBLE CEILING. COIL 10' OF COMMUNICATION CABLES ABOVE ACCESSIBLE CEILING.
- PROVIDE 1-2" C. WITH (1) TYPE 'E' CABLE, 8PAIR 1-2" C.O. WITH FULL ROPE AND 1-1" C. WITH FIRE ALARM CABLES INDICATED.
- PROVIDE 1-3/4" C. WITH FIRE ALARM CABLES INDICATED. ROUTE CONDUIT ABOVE ACCESSIBLE CEILING.
- CONNECT TO EXISTING FIRE ALARM MINI-HORN. RELOCATE END OF LINE 'EOL' IN CLASSROOM T9 EXISTING FIRE ALARM MINI-HORN.
- PROVIDE 1-3/4" C. WITH FIRE ALARM CABLES INDICATED. ROUTE CONDUIT EXPOSED IN 'IDF' ROOM.
- PROVIDE 1-2" C. WITH (1) TYPE 'E' CABLE.
- ROUTE BRANCH CIRCUIT ABOVE ACCESSIBLE CEILING.
- DATA HUB TO BE RELOCATED BY 'OUSD'.
- RELOCATED 'OUSD' DATA HUB. FINAL CONNECTIONS BY 'OUSD'.
- PROVIDE 20A/1P CIRCUIT BREAKER IN EXISTING POLE SPACE 335. CIRCUIT BREAKER TO MATCH EXISTING TYPE AND AIC RATING.
- REMOVE EXISTING (2) 4/C #8 CABLES BACK TO SOURCE. PROVIDE TYPE (2) #1 CABLES AND RECONNECT TO EXISTING SYSTEM. COORDINATE WITH 'OUSD'.

GENERAL NOTES:

- REFER TO FIRE ALARM WIRE SCHEDULE SHEET E2-1.
- REFER TO DUCTBANK SCHEDULE SHEET E3-4.

ELECTRICAL AND FIRE ALARM SITE PLAN

1" = 30' - 0"



NO SCALE

VOLTAGE LINE LOSS CALCULATIONS

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

(A) AMP'S

150cd HORN/STROBE (AS-24MCC-FR) 0.013
150cd HORN/STROBE (AS-24MCU-FR) 0.052
300cd HORN/STROBE (AS-24MCU-FR) 0.016
150cd HORN/STROBE (AS-24MCC-FR) 0.013
110cd HORN/STROBE (AS-24MCU-FR) 0.016
150cd STROBE (R88-24MCU-FR) 0.041
300cd STROBE (R88-24MCU-FR) 0.063
150cd STROBE (R88-24MCU-FR) 0.109
110cd STROBE (R88-24MCU-FR) 0.140
EXTERIOR HORN 0.069
DUAL SYNC MODULE (DSM-12/24-R) 0.039
MINI HORN 0.011

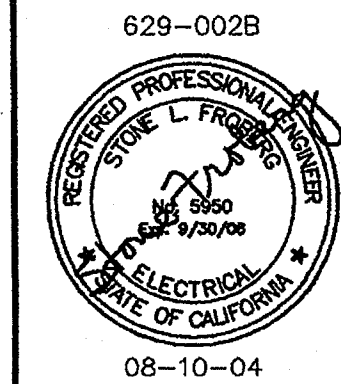
OTHER DATA

(B) WIRE GAUGE 12
(C) WIRE RESISTANCE 216
(D) CIRCULAR MILLS 6530
(E) VOLTS (DC) 20.4
(F) LINE WIRE FOOTAGE (PER CIRCUIT)

	150cd H/S CLG.	150cd HORN/ STROBE	300cd HORN/ STROBE	150cd HORN/ STROBE	110cd HORN/ STROBE	150cd STROBE	300cd STROBE	150cd STROBE	110cd STROBE	EXT. HORN	DUAL SYNC MODULE	MINI HORN	TOTAL AMP'S	LINE WIRE FOOTAGE	VOLTAGE LOSS	% LOSS
EXISTING SNAC-2																
CIRCUIT 1 (C1)	0	0	0	0	1	3	0	0	0	2	0	0	0.430	300	0.43	2.09%
TOTAL	0	0	0	0	1	3	0	0	0	2	0	0	0.43			
SNAC-L																
CIRCUIT 21 (C21)	0	0	0	4	0	1	0	0	0	1	1	0	0.676	350	0.78	3.84%
CIRCUIT 22 (C22)	0	1	0	4	0	5	0	0	0	2	0	0	0.923	200	0.61	2.99%
CIRCUIT 23 (C23)	0	1	0	4	0	2	0	0	0	1	1	0	0.769	450	1.14	5.61%
CIRCUIT 24 (C24)	0	1	0	4	0	2	0	0	0	1	1	0	0.769	350	0.69	4.36%
TOTAL	0	3	0	16	0	10	0	0	0	5	3	0	3.131			
SNAC-N																
CIRCUIT 25 (C25)	0	2	0	0	0	3	0	0	1	2	1	0	0.543	250	0.45	2.20%
CIRCUIT 26 (C26)	0	2	0	0	0	3	0	0	1	2	1	0	0.543	250	0.45	2.20%
CIRCUIT 27 (SPARE)	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0	0.00	0.00%
CIRCUIT 28 (SPARE)	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0	0.00	0.00%
TOTAL	0	4	0	0	0	6	0	0	2	4	2	0	1.086			

SEQUENCE OF OPERATION MATRIX

OUTPUT INPUT	ANNUNCIATE SIGNAL AT FAC/ AND REMOTE ANNUN.	SOUND ALARMS/ SOUND THROUGHOUT BUILDING	ACTIVATE ELEVATOR SHUNT TRIP BREAKER	ACTIVATE ELEVATOR RECALL	TRANSMIT SIGNAL TO CENTRAL STATION SERVICE	SHUTDOWN ASSOCIATED HVAC UNIT	SHUTDOWN ASSOCIATED SMOKE/FIRE DAMPER
ALARM SIGNALS							
AREA SMOKE DETECTOR	X	X			X		
AREA HEAT DETECTOR	X	X			X		
MANUAL FIRE ALARM STATION	X	X			X		
FIRE SPRINKLER WATERFLOW SWITCH	X	X			X		
SUPERVISORY SIGNALS							
HVAC DUCT DETECTOR	X				X		
SMOKE/FIRE DAMPER DUCT DETECTOR	X				X		
TAMPER SWITCH	X				X		
POWER FAILURE	X				X		
TROUBLE SIGNAL							
GROUND FAULT	X				X		
OPEN CIRCUIT	X				X		
SNAC SHORT	X				X		
LOW BATTERY	X				X		



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

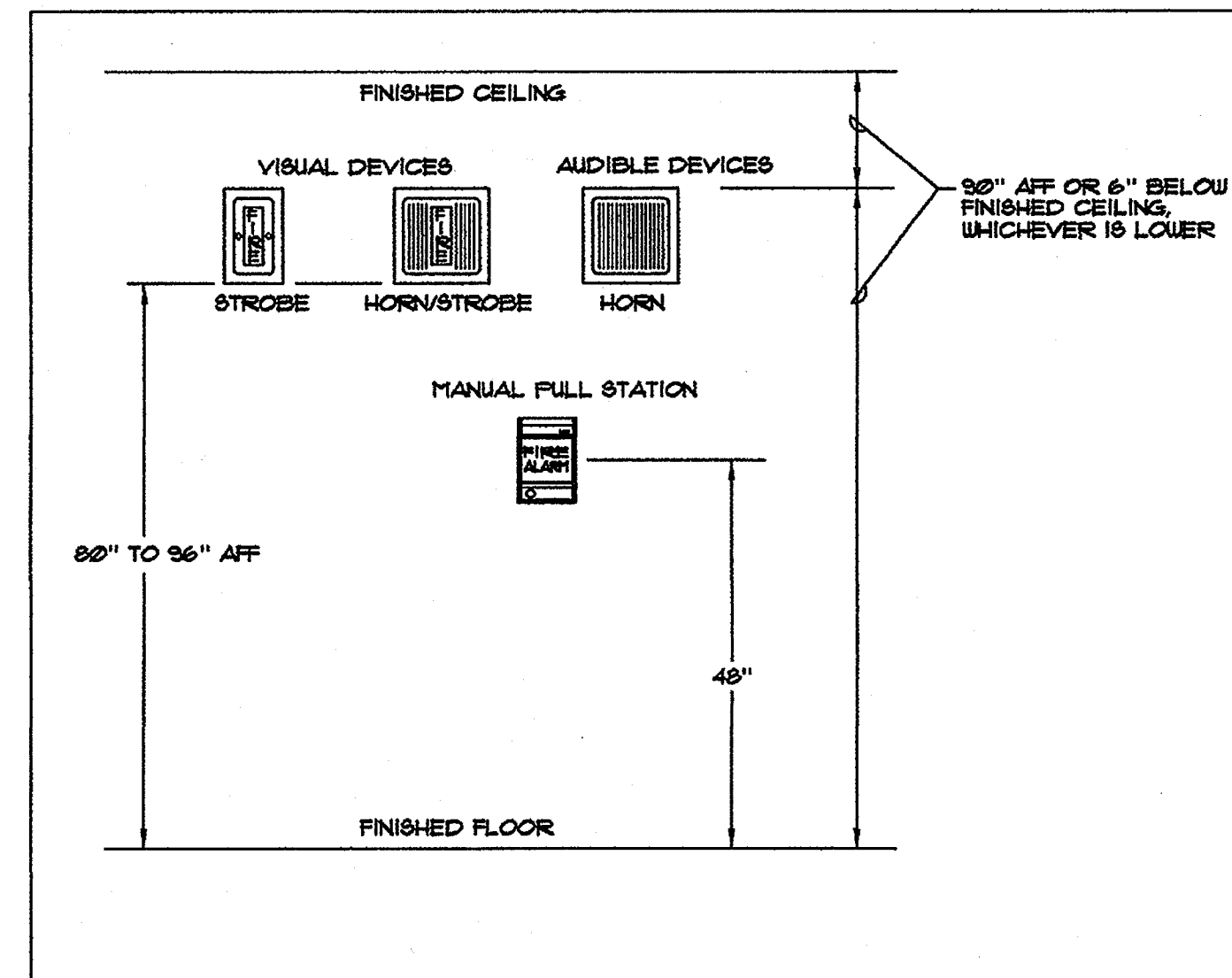
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JEFFERSON M9 NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.
3355 MISSION AVE.
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291



FIRE ALARM DEVICE ELEVATION

NO SCALE

BATTERY CAPACITY CALCULATIONS

BATTERY CAPACITY CALCULATION SHEET
SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT - SNAC-N

QTY	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMP'S)	STANDBY TOTAL CURRENT (AMP'S)	ALARM UNIT CURRENT (AMP'S)	ALARM TOTAL CURRENT (AMP'S)
1	SNAC-9	SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT	0.015	0.015	0.175	0.175
1	ACM-26	SNAC PANEL VISUAL TRIP W/ ACM-26	0.0003	0.0003	0.000	0.000
0	GX33W	MINI-HORN	0	0	0.022	0.000
4	MT-12/24-R	EXTERIOR HORN	0	0	0.069	0.276
4	AS-24MCU-FR	150cd HORN/STROBE	0	0	0.052	0.208
0	AS-24MCU-FR	300cd HORN/STROBE	0	0	0.076	0.000
0	AS-24MCC-FR	150cd HORN/STROBE	0	0	0.132	0.000
0	AS-24MCU-FR	110cd HORN/STROBE	0	0	0.169	0.000
6	R88-24MCU-FR	150cd STROBE	0	0	0.041	0.246
0	R88-24MCU-FR	300cd STROBE	0	0	0.063	0.000
0	R88-24MCU-FR	150cd STROBE	0	0	0.109	0.000
2	R88-24MCU-FR	110cd STROBE	0	0	0.140	0.280
1	MB-G10-2R-R	BELL	0	0	0.030	0.030
	TOTAL			0.075		1.185

BATTERY CALCULATIONS

ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 24 HRS
B) REQ'D BATTERY BACKUP - ALARM 10 MIN (0.17 HOURS)
C) ALLOWABLE ERROR 25%
D) TOTAL STANDBY BACKUP (AMP/HOURS) 1.81
E) TOTAL ALARM BACKUP 0.20
F) ALLOWABLE ERROR (C X (D+E)) 0.50
TOTAL AMP/HR REQ'D (D+E+F) 2.51 AMP/HR
BATTERIES SUBMITTED: NP T-12 AMP HOUR: 1 AMP/HOURS

BATTERY CAPACITY CALCULATION SHEET
SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT - SNAC-L

QTY	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMP'S)	STANDBY TOTAL CURRENT (AMP'S)	ALARM UNIT CURRENT (AMP'S)	ALARM TOTAL CURRENT (AMP'S)
1	SNAC-9	SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT	0.015	0.015	0.175	0.175
1	ACM-26	SNAC PANEL VISUAL TRIP W/ ACM-26	0.0003	0.0003	0.000	0.000
0	GX33W	MINI-HORN	0	0	0.022	0.000
5	MT-12/24-R	EXTERIOR HORN	0	0	0.069	0.345
3	AS-24MCU-FR	150cd HORN/STROBE	0	0	0.052	0.156
0	AS-24MCU-FR	300cd HORN/STROBE	0	0	0.076	0.000
16	AS-24MCC-FR	150cd HORN/STROBE	0	0	0.132	2.112
0	AS-24MCU-FR	110cd HORN/STROBE	0	0	0.169	0.000
10	R88-24MCU-FR	150cd STROBE	0	0	0.041	0.410
0	R88-24MCU-FR	300cd STROBE	0	0	0.063	0.000
0	R88-24MCU-FR	150cd STROBE	0	0	0.109	0.000
0	R88-24MCU-FR	110cd STROBE	0	0	0.140	0.000
1	MB-G10-2R-R	BELL	0	0	0.030	0.030
	TOTAL			0.075		3.188

BATTERY CALCULATIONS

ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 24 HRS
B) REQ'D BATTERY BACKUP - ALARM 10 MIN (0.17 HOURS)
C) ALLOWABLE ERROR 25%
D) TOTAL STANDBY BACKUP (AMP/HOURS) 1.81
E) TOTAL ALARM BACKUP 0.53
F) ALLOWABLE ERROR (C X (D+E)) 0.59
TOTAL AMP/HR REQ'D (D+E+F) 2.93 AMP/HR
BATTERIES SUBMITTED: NP T-12 AMP HOUR: 1 AMP/HOURS

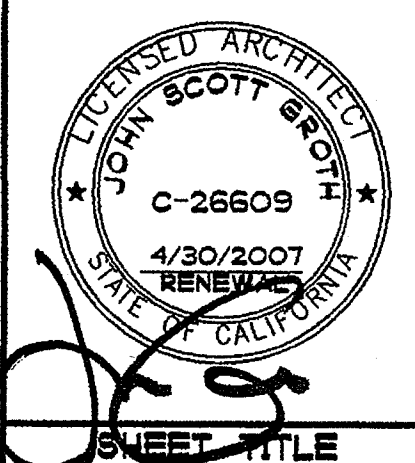
BATTERY CAPACITY CALCULATION SHEET
SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT - SNAC-2

QTY	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMP'S)	STANDBY TOTAL CURRENT (AMP'S)	ALARM UNIT CURRENT (AMP'S)	ALARM TOTAL CURRENT (AMP'S)
1	SNAC-9	EXIST. SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT	0.015	0.015	0.175	0.175
1	ACM-26	EXIST. SNAC PANEL VISUAL TRIP W/ ACM-26	0.0003	0.0003	0.000	0.000
2	AH-24UP-R	EXIST. EXTERIOR HORN	0	0	0.041	0.082
2	R88-24MCC-FR	EXIST. 150cd STROBE	0	0	0.045	0.090
1	AS-24MCC-FR	EXIST. 110cd HORN/STROBE	0	0	0.202	0.202
1	R88-24MCC-FR	EXIST. 150cd STROBE	0	0	0.041	0.041
	TOTAL			0.075		0.590

BATTERY CALCULATIONS

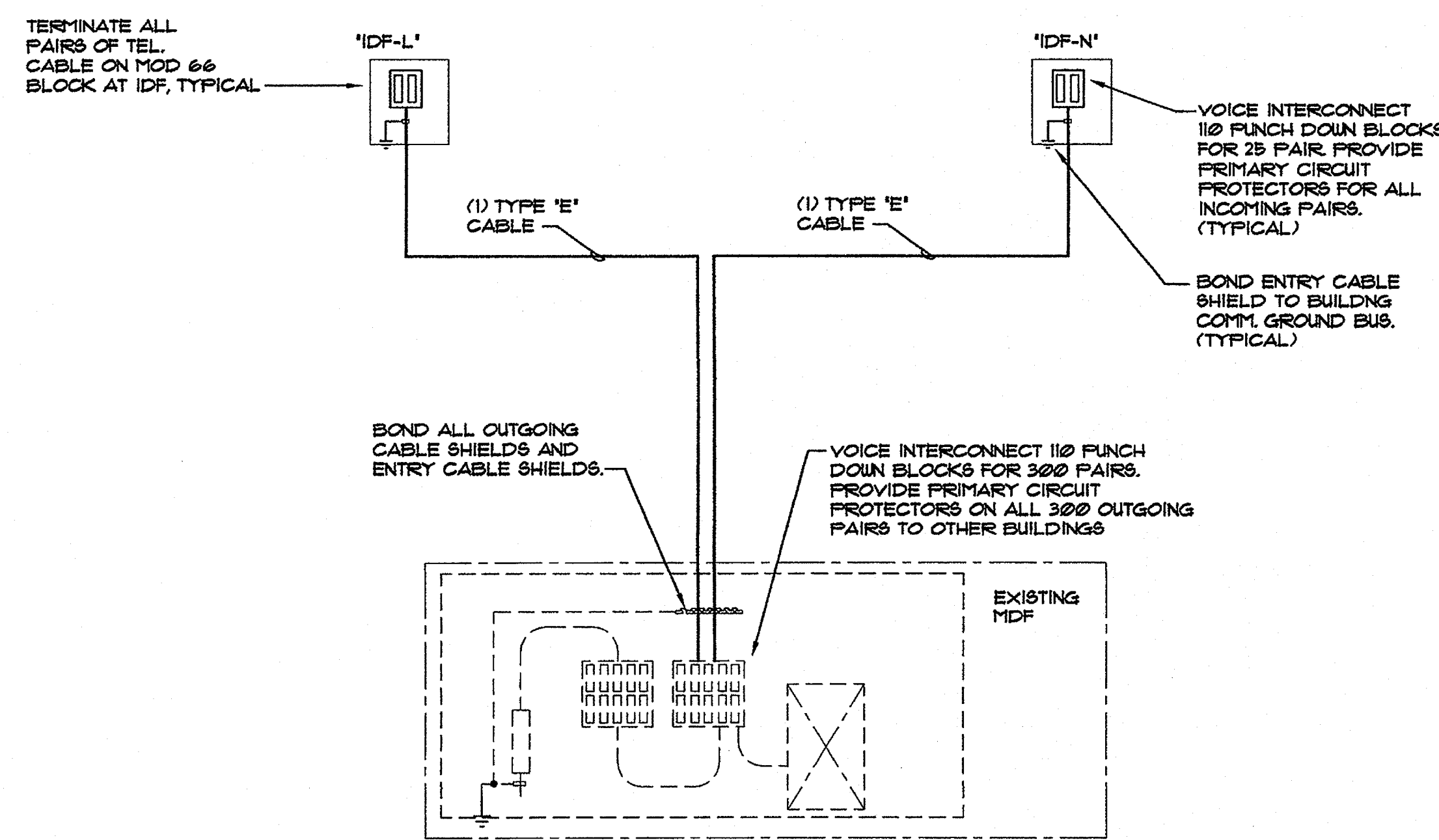
ASSUMPTIONS:
A) REQ'D BATTERY BACKUP - STANDBY 60 HRS
B) REQ'D BATTERY BACKUP - ALARM 15 MIN (0.25 HOURS)
C) ALLOWABLE ERROR 25%
D) TOTAL STANDBY BACKUP (AMP/HOURS) 4.52
E) TOTAL ALARM BACKUP 0.14
F) ALLOWABLE ERROR (C X (D+E)) 1.16
TOTAL AMP/HR REQ'D (D+E+F) 5.82 AMP/HR
BATTERIES SUBMITTED: NP T-12 AMP HOUR: 1 AMP/HOURS

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FIRE ALARM
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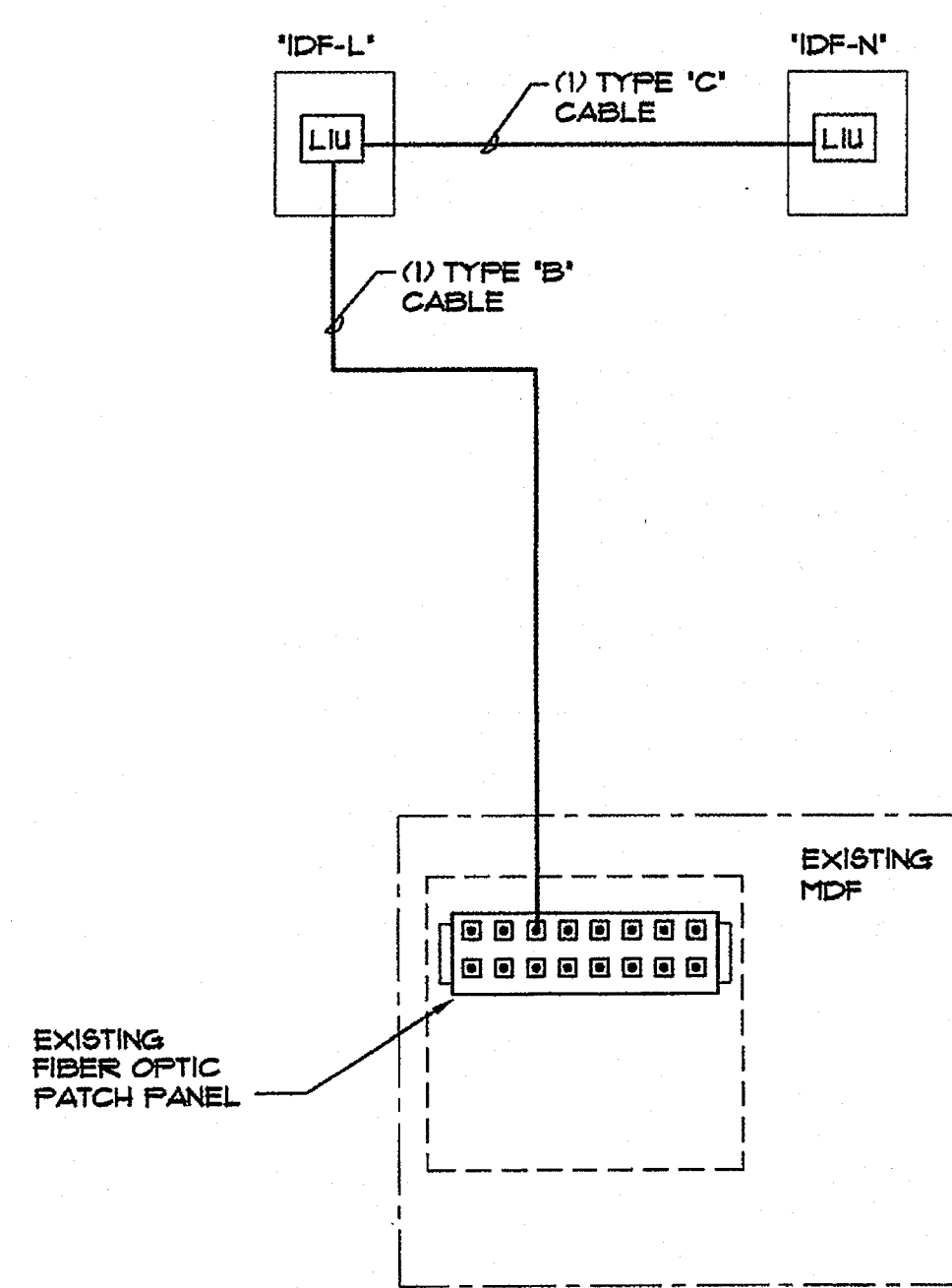
E2-2



VOICE DISTRIBUTION SYSTEM RISER DIAGRAM

NO SCALE

1
E3-2



DATA SYSTEM 'BACKBONE' RISER DIAGRAM

NO SCALE

2
E3-2

DATA AND COMMUNICATION SYSTEMS CABLE KEY

NO SCALE

3
E3-2

TYPE	NEW CABLE DESCRIPTION	MANUFACTURER/SUPPLIER (OR EQUAL)
"A"	CAT 6 DATA SYSTEM CABLE (BLUE), PLENUM RATED	SYSTEMAX 2071
"B"	(24)- STRAND MULTI-MODE FIBER OPTIC CABLE	SYSTEMAX 3DNDX-024
"C"	(6)- STRAND FIBER OPTIC CABLE	SYSTEMAX 3DNDX-026
"D"	RG-11U U.G. DIRECT BURIAL RATED COAXIAL TV CABLE	WEST PENN #1110
"E"	(25) PAIR U.G. RATED TEL. CABLE WITH ALPETH JACKET	ESSEX "SEALPIC" #24-051-31
"F"	DIRECT BURIAL RATED COAXIAL TV CABLE	COMMSCOPE P-500-JCASS
"G"	RG-6U- INTERIOR COAXIAL TV CABLE, PLENUM RATED	WEST PENN #25041
"H"	4/C #22 (2 SHIELDED/2 UNSHIELDED) UG RATED PUBLIC ADDRESS CABLE. (INTERIOR SPEAKER)	WEST PENN #AQ385
"J"	4/C #22 (2 SHIELDED/2 UNSHIELDED) PUBLIC ADDRESS CABLE. (INTERIOR SPEAKER)	WEST PENN #385
"K"	2/C #8 U.G. RATED PUBLIC ADDRESS CABLE. (EXTERIOR SPEAKERS)	WEST PENN #AQ293
"L"	2/C #8 INTERIOR RATED PUBLIC ADDRESS CABLE. (EXTERIOR SPEAKERS)	WEST PENN #293
"M"	4/C #8 U.G. RATED CABLE	WEST PENN #AQ244

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Consulting Electrical Engineers

3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

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823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

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GROTH ARCHITECTS, INC.
3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291

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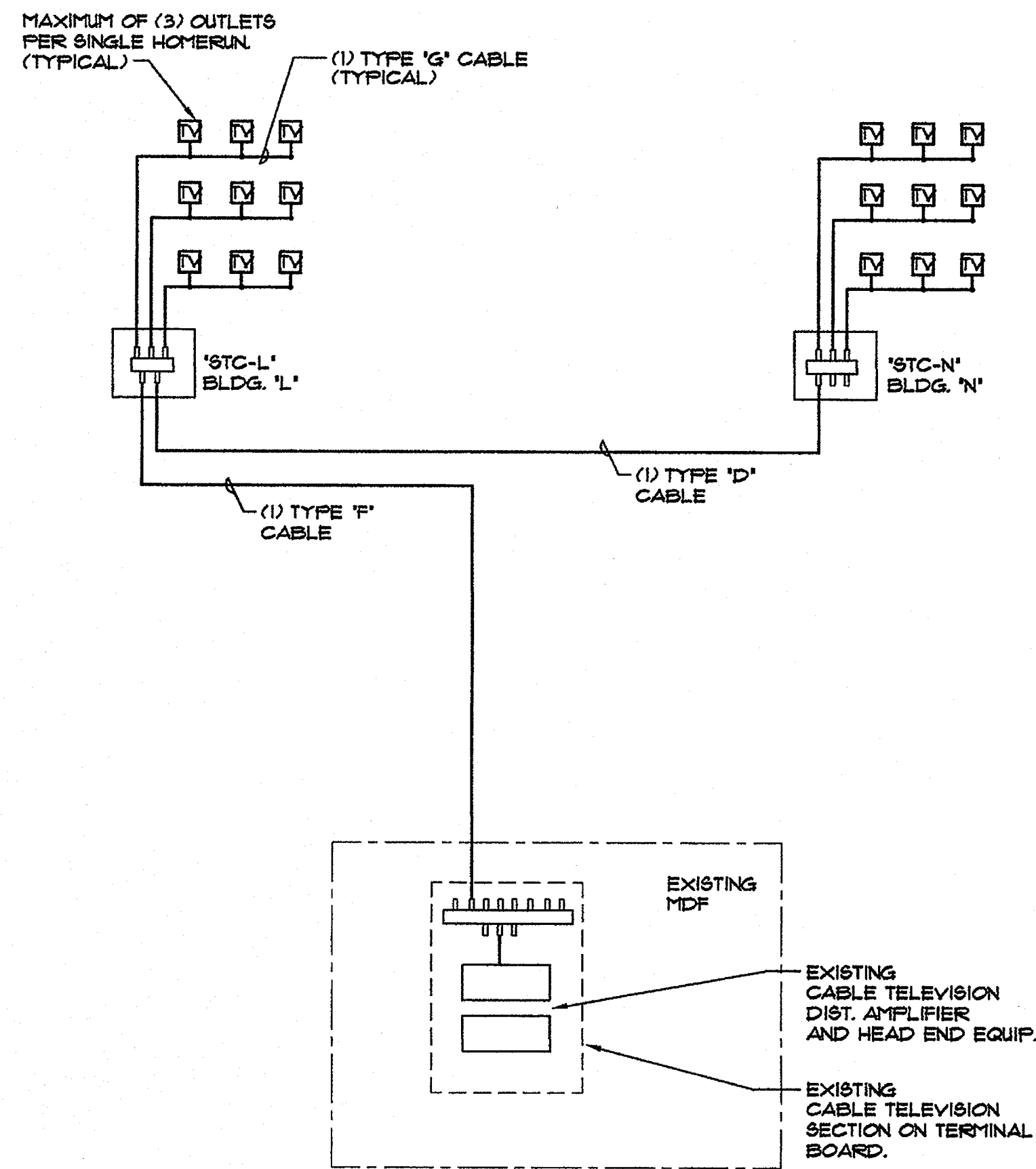
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VOICE AND DATA
SYSTEMS RISER
DIAGRAMS

E3-2

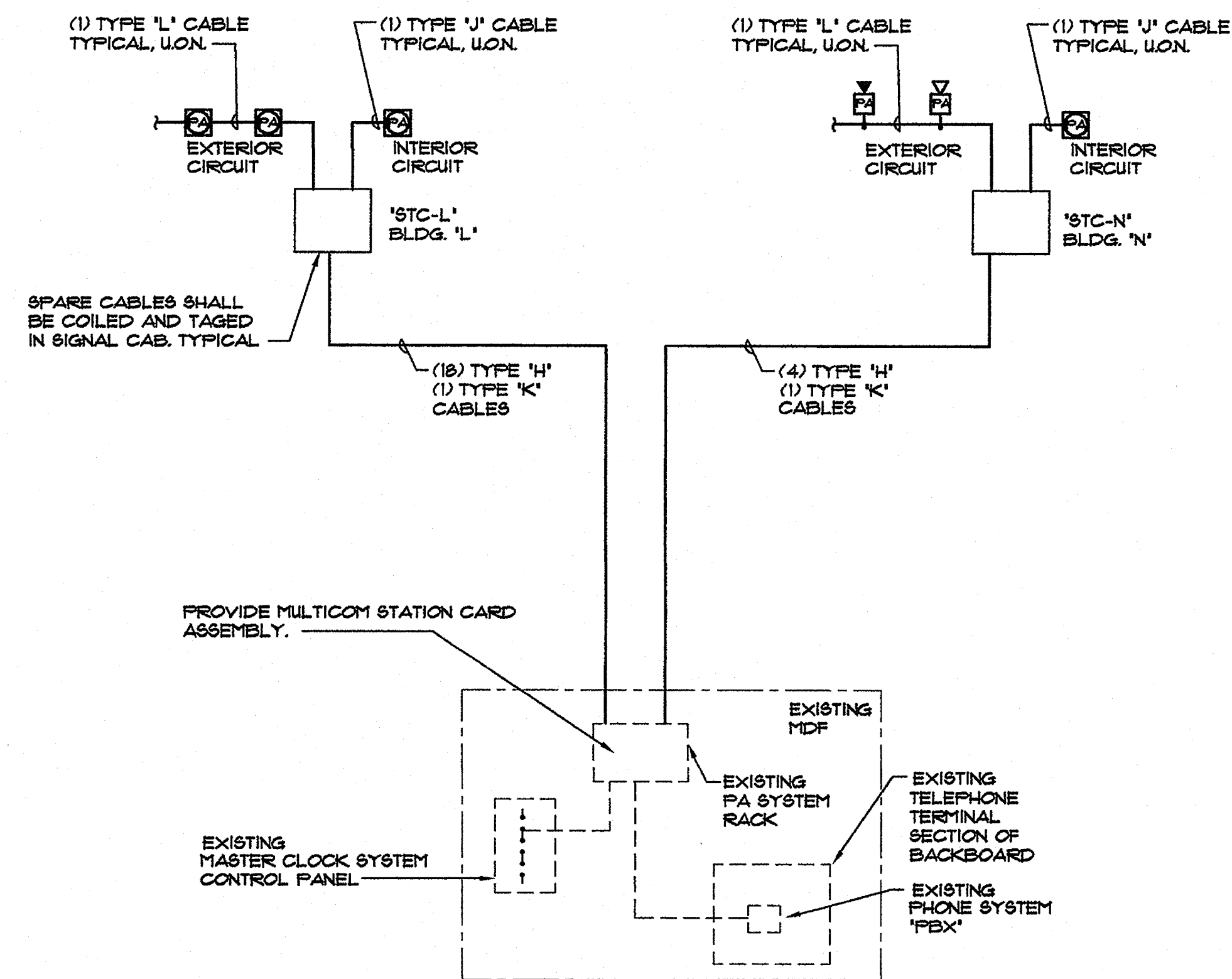
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TV DISTRIBUTION SYSTEM RISER DIAGRAM

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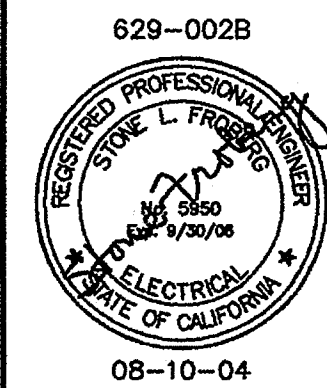
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E3-3



PUBLIC ADDRESS DISTRIBUTION SYSTEM RISER DIAGRAM

NO SCALE

2
E3-3



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Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

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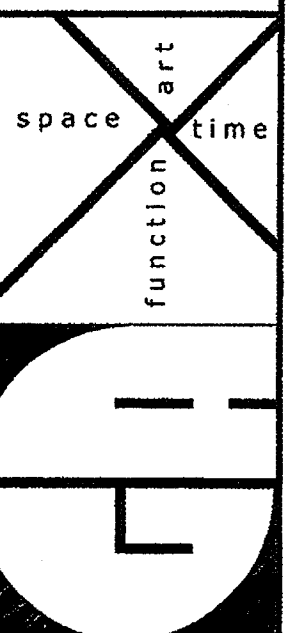
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3355 MISSION AVE.
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
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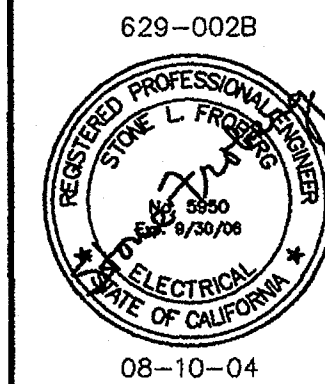
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SHEET TITLE
TV AND P.A.
RISER DIAGRAMS

E3-3



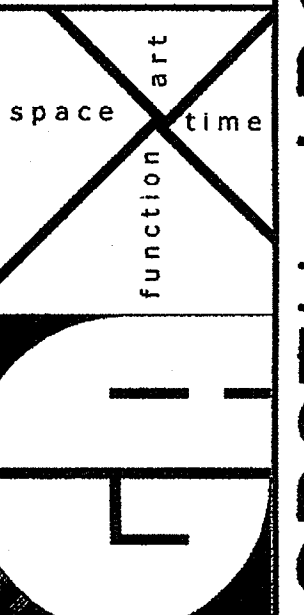
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Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

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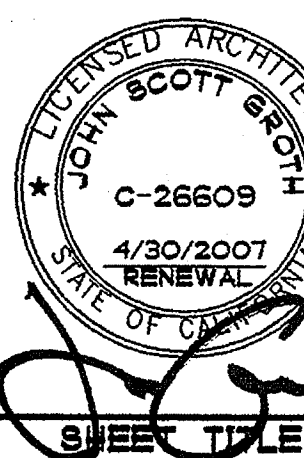
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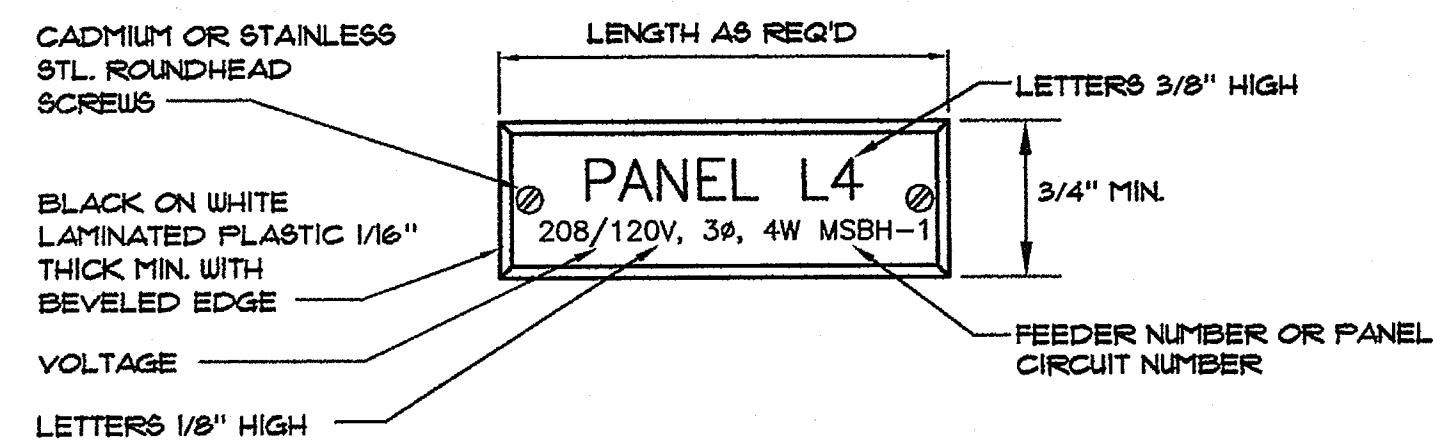
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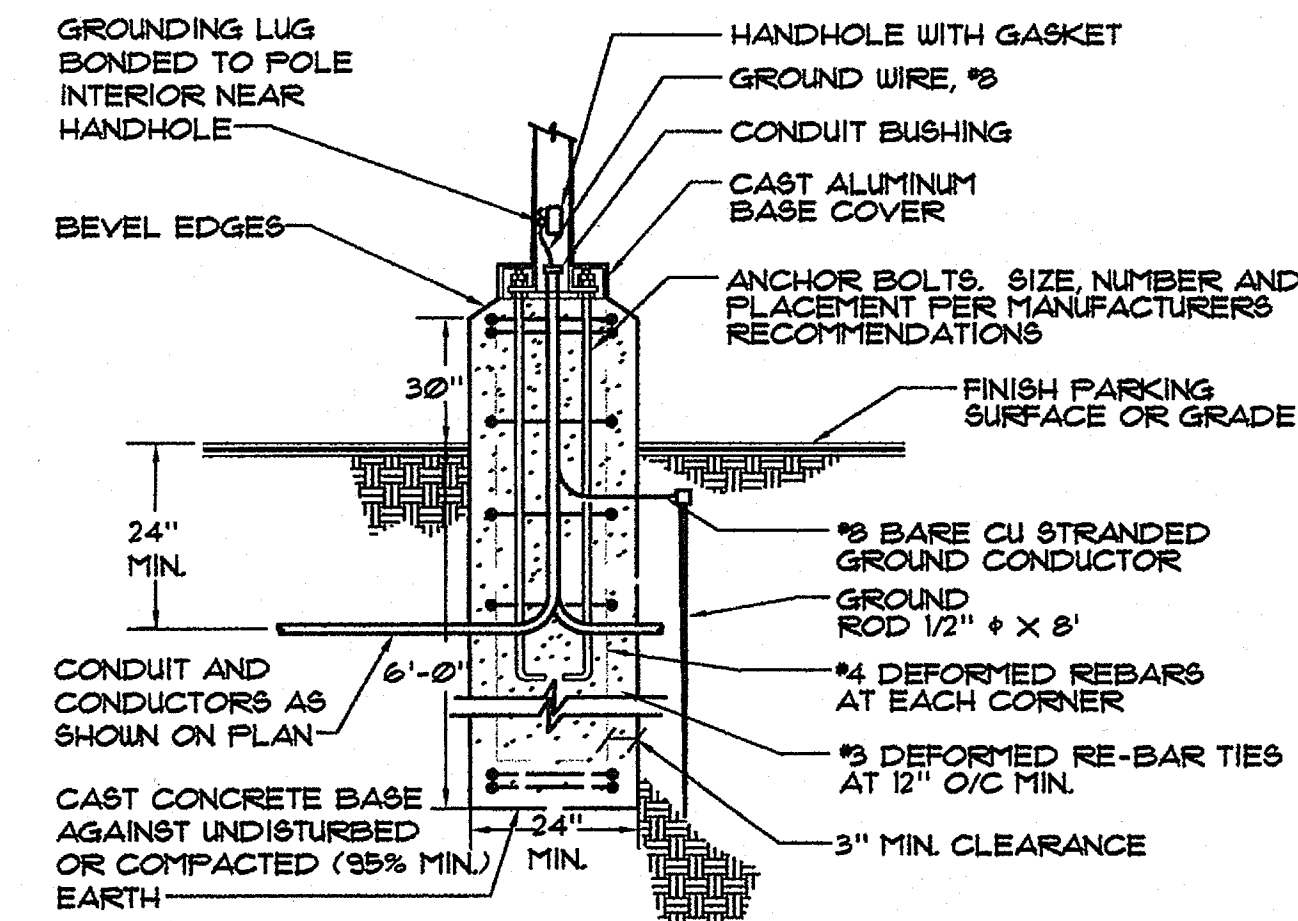


DETAILS

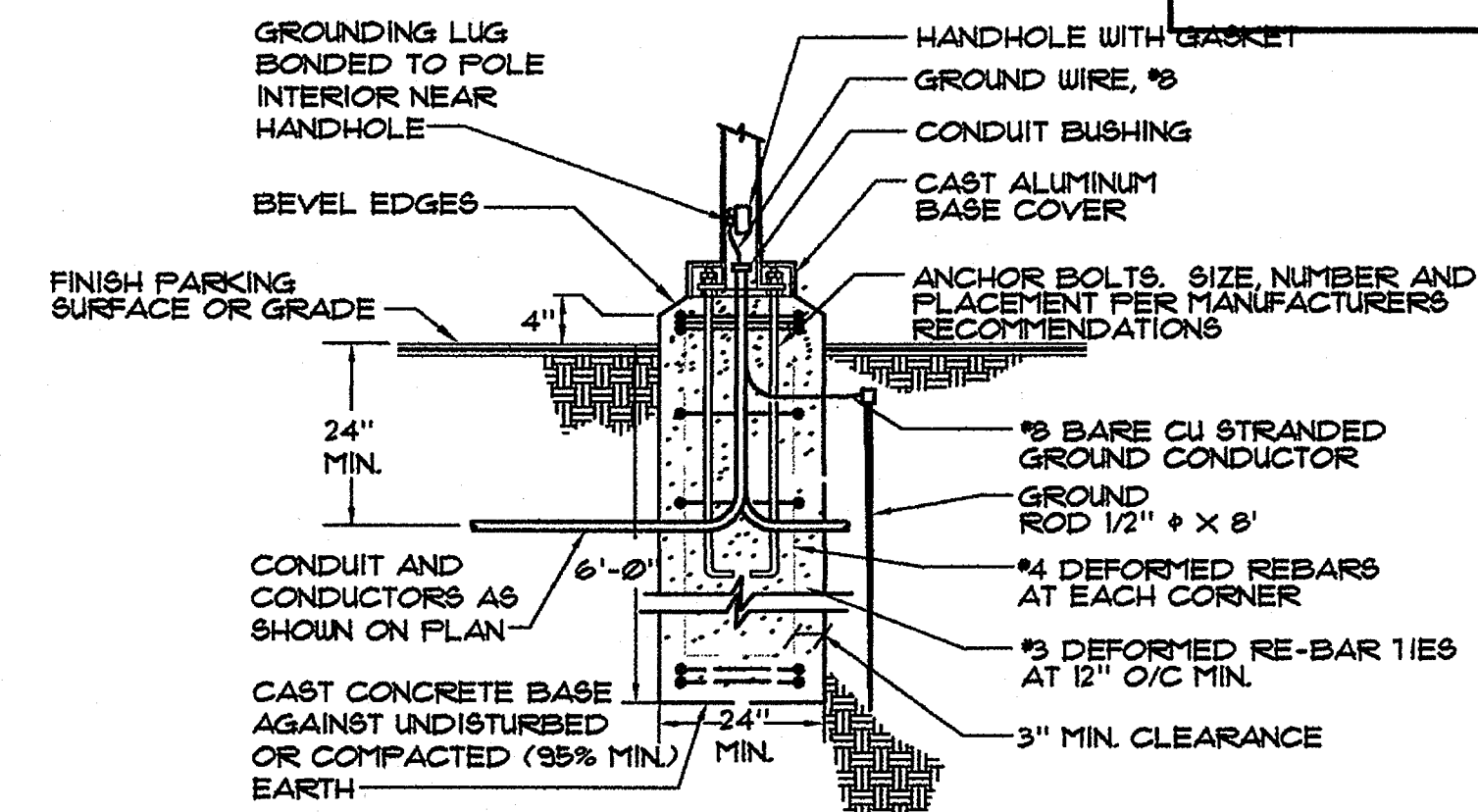
E4-2



NAMEPLATE DETAIL
NO SCALE



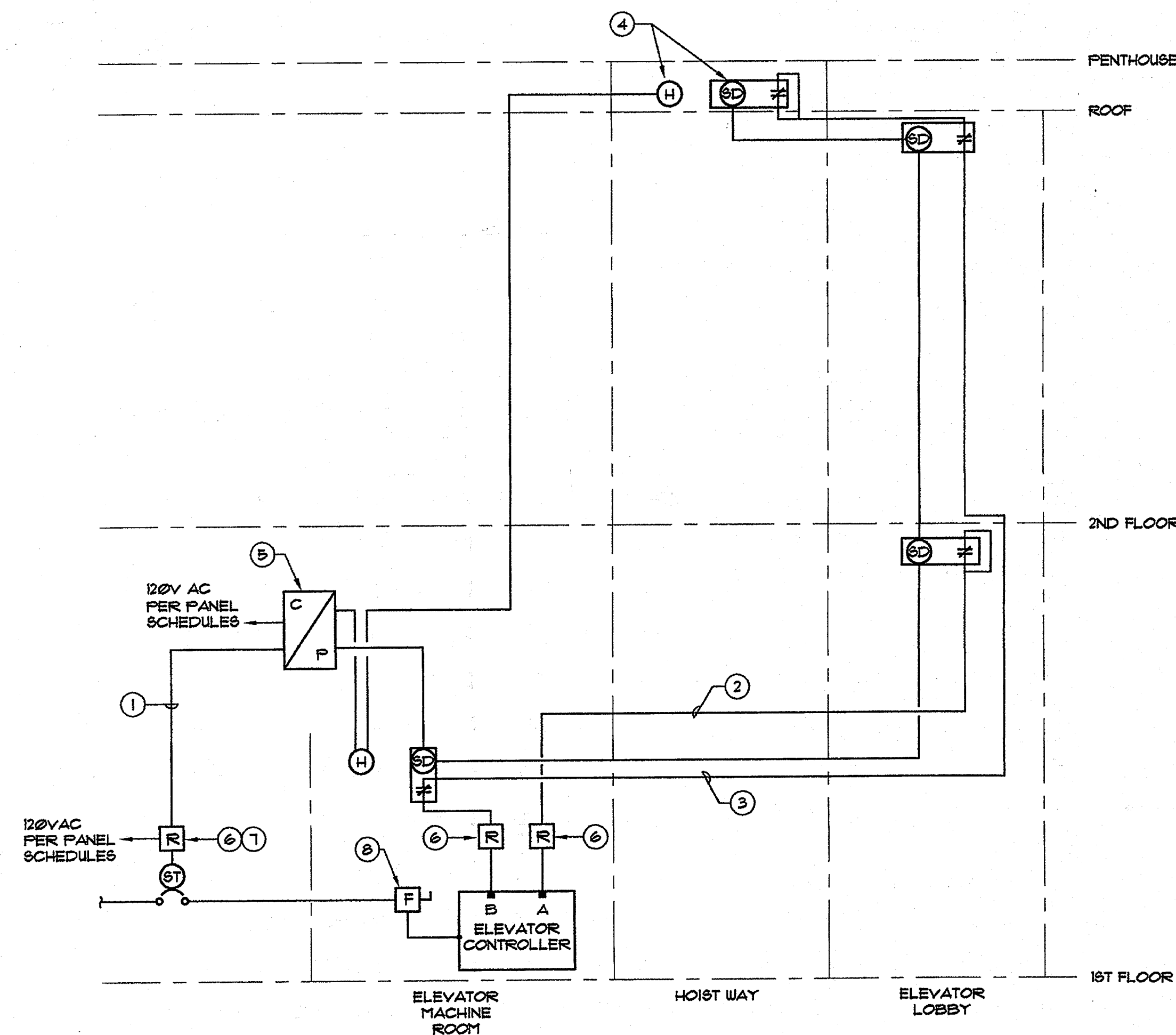
TYPICAL POLE BASE DETAIL - HIGH BASE
NO SCALE



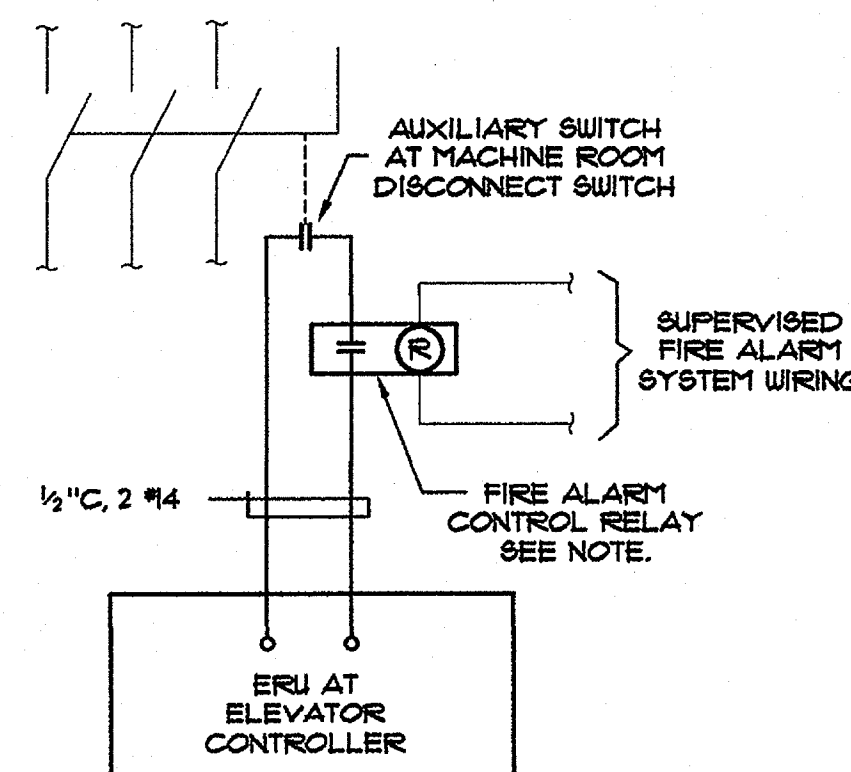
TYPICAL POLE BASE DETAIL - LOW BASE
NO SCALE

LEGEND/NOTES:

- ④ HEAT DETECTOR, RATE OF RISE TYPE, 135 DEGREES LOCATED WITHIN 2FT. OF EACH SPRINKLER HEAD.
- ⑤ PHOTO-ELECTRIC SMOKE DETECTOR WITH N.O./N.C. AUXILIARY CONTACTS.
- ⑥ SHUNT-TRIP CIRCUIT BREAKER.
- ⑦ ELEVATOR POWER FUSED SAFETY SWITCH.
- ⑧ SHUNT-TRIP CIRCUIT ACTIVATED BY HEAT DETECTORS ONLY.
- ⑨ ELEVATOR RECALL CIRCUIT 'A' ACTIVATED BY 1ST FLOOR SMOKE DETECTOR AND ELEVATOR MACHINE ROOM SMOKE DETECTOR IF MACHINE ROOM IS ADJACENT TO HOIST WAY ON 1ST FLOOR.
- ⑩ ELEVATOR RECALL CIRCUIT 'B' ACTIVATED BY SMOKE DETECTORS OTHER THAN THE 1ST FLOOR UNITS.
- ⑪ DETECTORS AT TOP OF HOIST WAY. PROVIDE ACCESS PANEL WITH UL-100B SELF CLOSING AND LOCKING DOOR. ONE ACCEPTABLE ACCESS PANEL AND SAFETY ENCLOSURE IS MANUFACTURED BY JIM CONSTRUCTION, PHONE (949) 683-6809.
- ⑫ FIRE ALARM SYSTEM CONTROL PANEL.
- ⑬ ADDRESSABLE RELAY LOCATED WITHIN 3 FEET OF DEVICE CONTROLLED.
- ⑭ RELAY WITH MOMENTARY CONTACT FEATURE TO OPERATE FOR MAXIMUM 2 SECONDS TO AVOID SOLENOID DAMAGE IN THE SHUNT TRIP MECHANISM.
- ⑮ FUSED SWITCH WITH TWO NORMALLY OPEN SETS OF AUXILIARY CONTACTS (FOR ERU POWER SUPPLY DISCONNECTION). SEE DIAGRAM 6/E4-2.

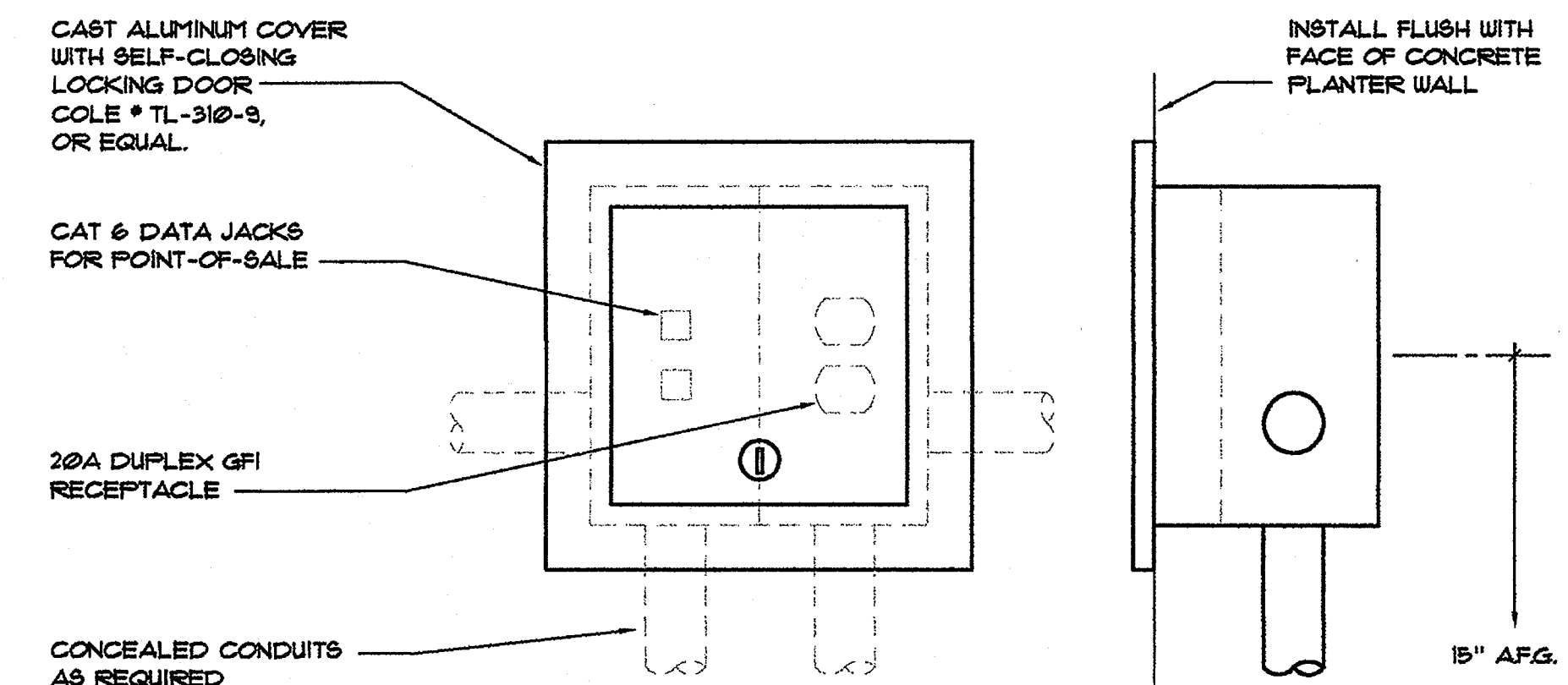


TYPICAL ELEVATOR CONTROL SCHEMATIC DIAGRAM
NO SCALE

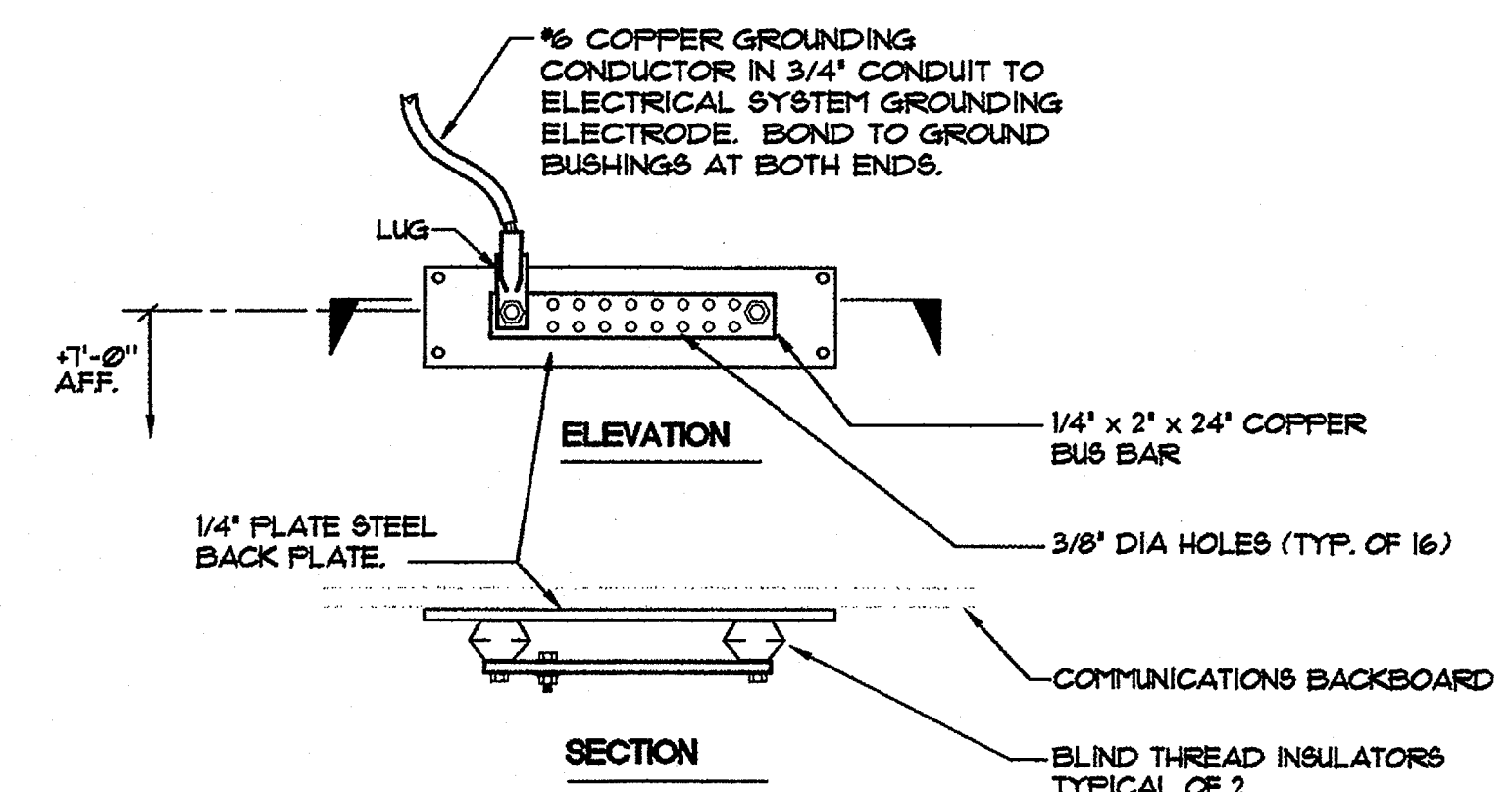


NOTE: RELAY SHALL OPERATE TO OPEN CONTACT WHEN FIRE ALARM PANEL SIGNALS SHUNT TRIP OPERATION.

ELEVATOR ERU CONTROL DIAGRAM
NO SCALE

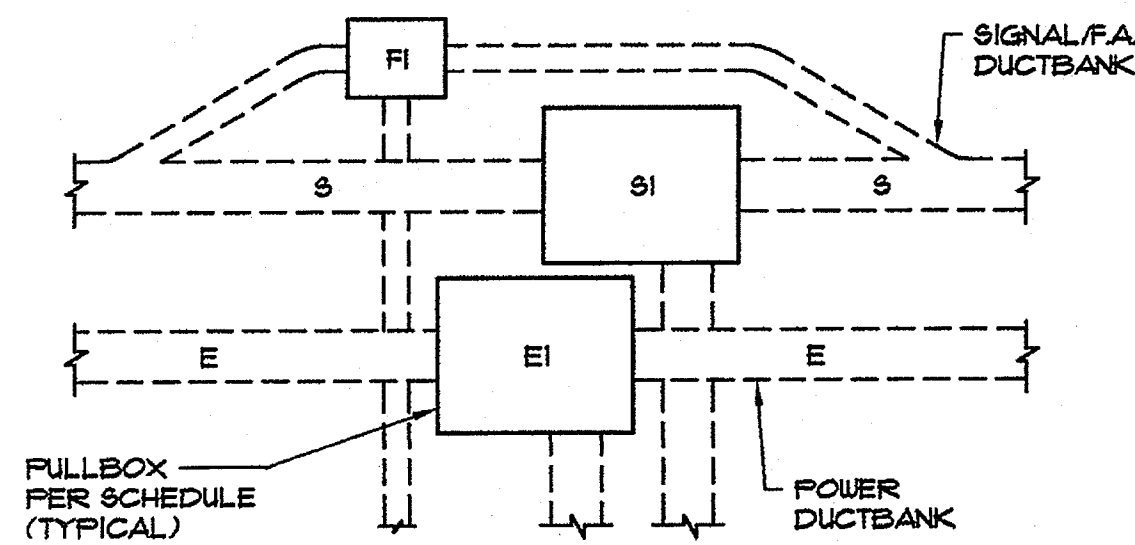


CONNECTION BOX DETAIL
NO SCALE



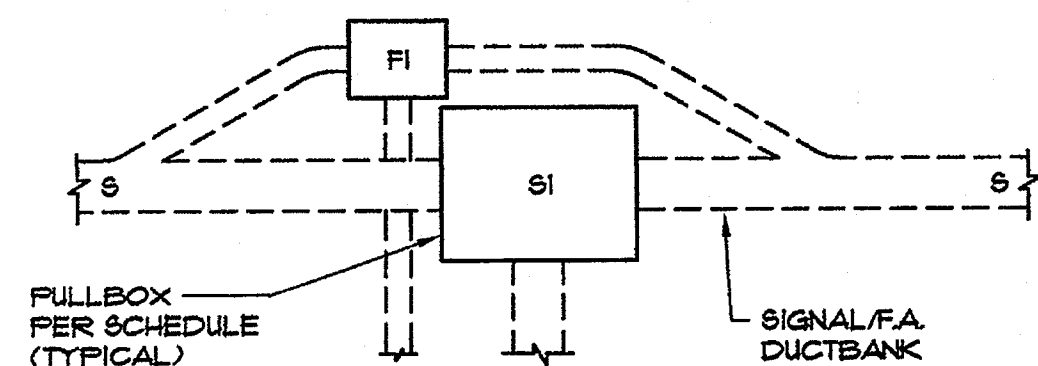
COMMUNICATION GROUND BUS
NO SCALE

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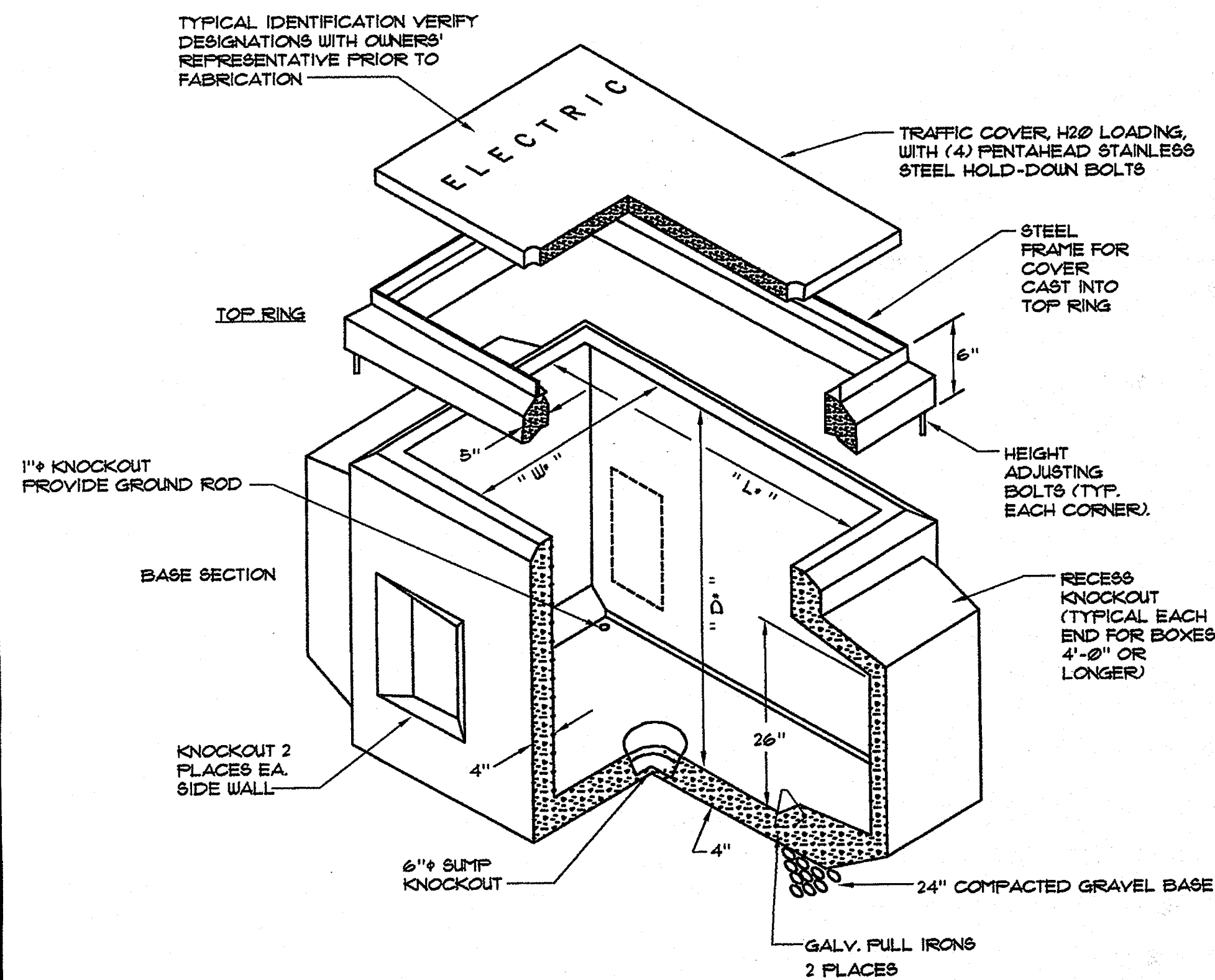
POWER/SIGNAL/F.A. PULLBOX PLAN
NO SCALE

1
E4-3



SIGNAL/F.A. PULLBOX PLAN
NO SCALE

2
E4-3



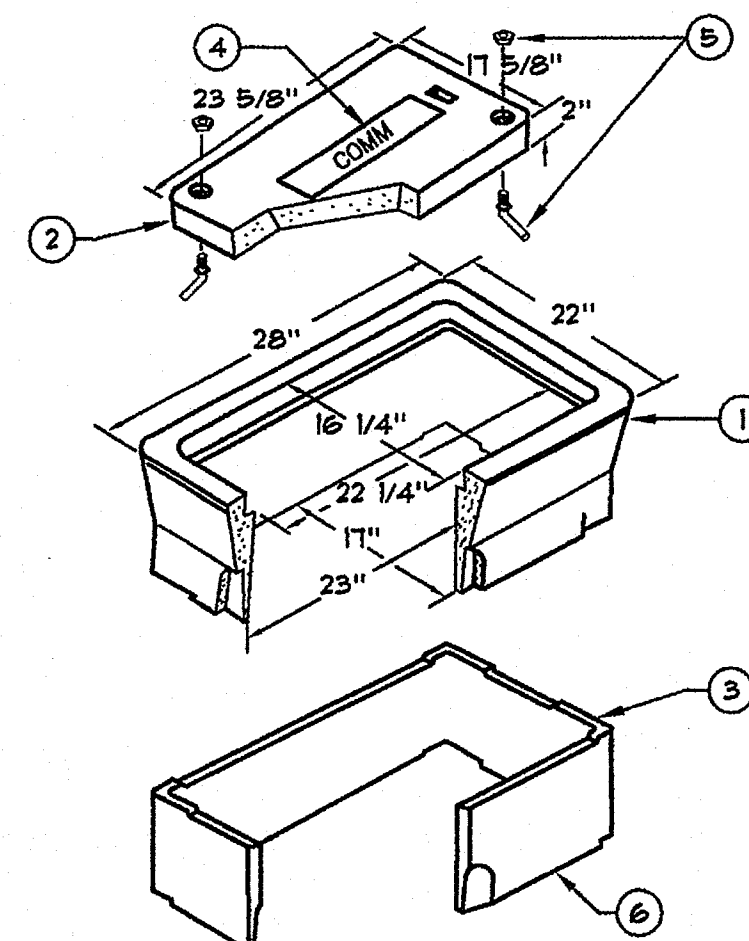
* FOR DIMENSIONS SEE PULLBOX SCHEDULE ON THIS SHEET.

POWER/SIGNAL PULLBOX DETAIL
NO SCALE

3
E4-3

PULLBOX SCHEDULE					
FULLBOX	TYPE	DETAIL	"L" ①	"W" ①	"D" ①
EI	POWER	3/E4.3	48"	36"	36"
SI	SIGNAL	3/E4.3	48"	36"	36"
S2	SIGNAL	4/E4.3	PER DETAIL	PER DETAIL	PER DETAIL
FI	FIRE ALARM	4/E4.3	PER DETAIL	PER DETAIL	PER DETAIL

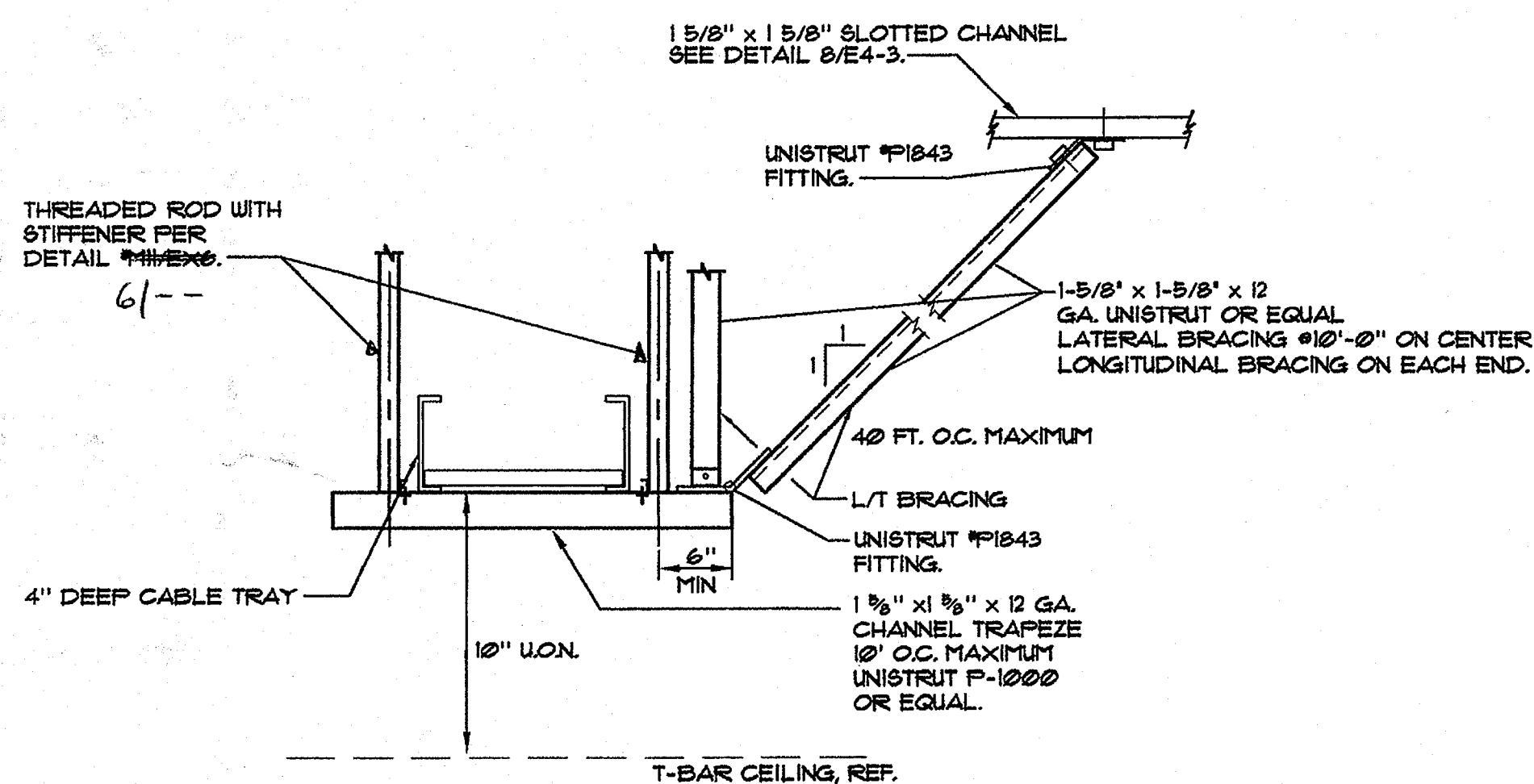
① VERIFY ALL DIMENSIONS BASED ON ACTUAL CONDUIT LAYOUT PRIOR TO ORDERING, PER C.E.C. 310-28.



- ① PRECAST CONCRETE, BOTTOMLESS PULLBOX
- ② TRAFFIC TYPE BOLT DOWN COVER
- ③ PRECAST CONCRETE EXTENSION
- ④ UTILITY IDENTIFICATION TO SAY "COMM" OR "FA" ON COVER
- ⑤ TAMPER PROOF PENTA HEAD NUT AND SWING BOLT ON FIRE ALARM BOXES, STANDARD HEX HEAD ON FIELD COMM. BOXES (2 REQUIRED). ALL STAINLESS STEEL.
- ⑥ CONDUITS SHALL ENTER THROUGH SIDES OF EXTENSION.
- ⑦ INSTALL ON 12" BASE OF COMPACTED GRAVEL. SET BOX LEVEL, WITH TOP 1" ABOVE FINISHED GRADE.

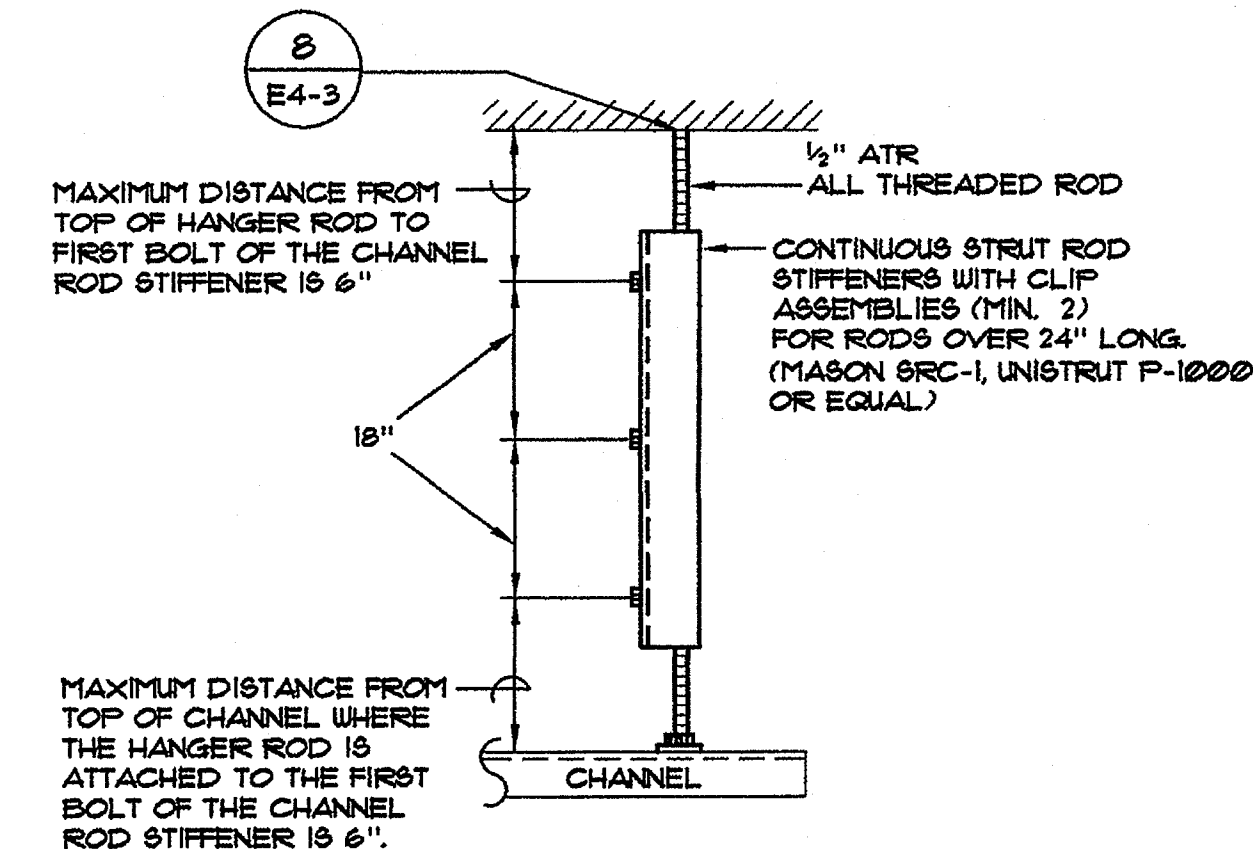
FIRE ALARM PULLBOX DETAIL
NO SCALE

4
E4-3



TYPICAL CABLE TRAY SEISMIC SUPPORT
NO SCALE

5
E4-3

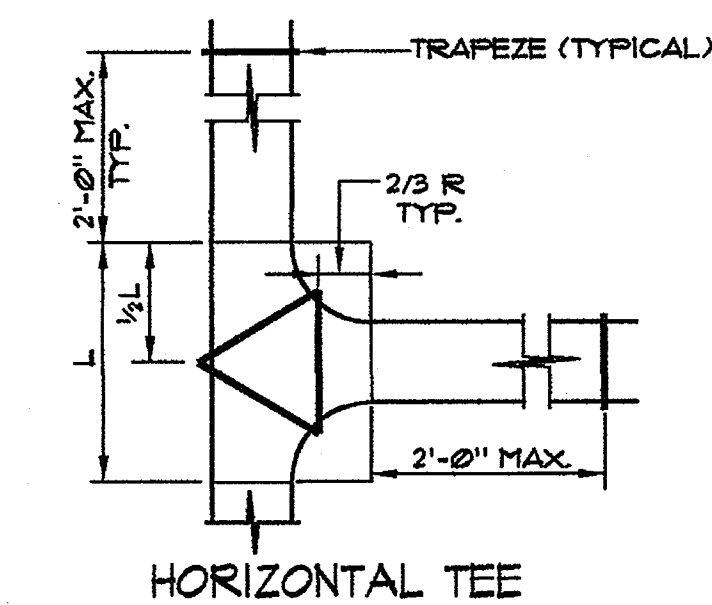


ROD STIFFENER DETAIL
NO SCALE

6
E4-3

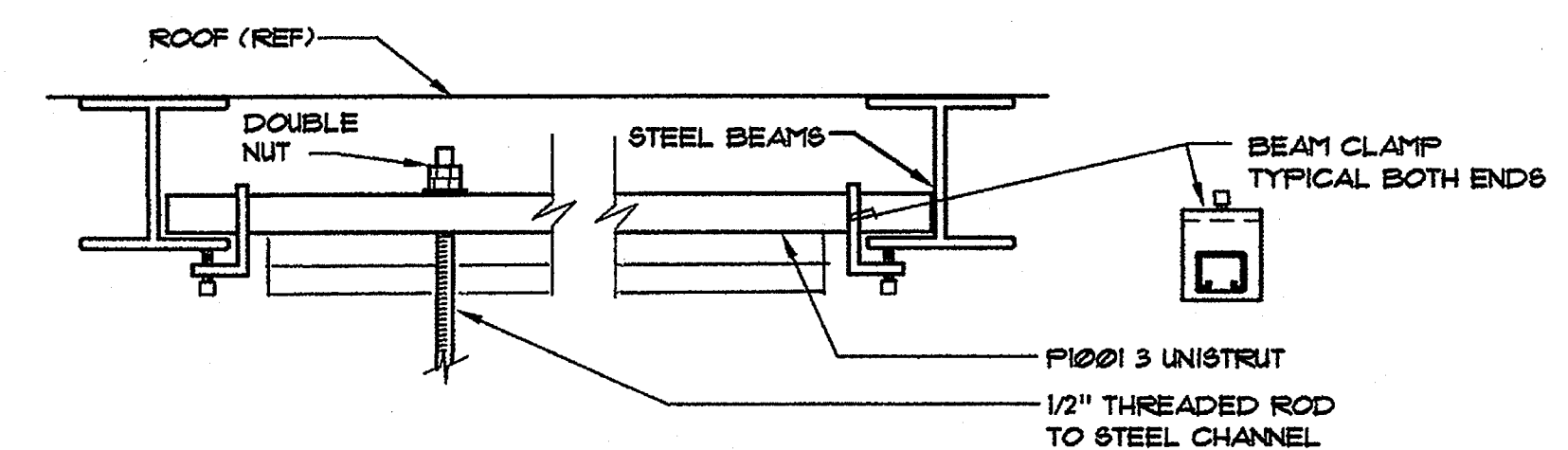
NOTES:

1. TRAPEZE 10' O.C. MAX. FOR STRAIGHT RUNS.
2. TRAPEZE REQUIRED 12" FROM FIRE RATED PENETRATIONS.
3. TRAPEZE REQUIRED AT INTERSECTIONS AS INDICATED BELOW.



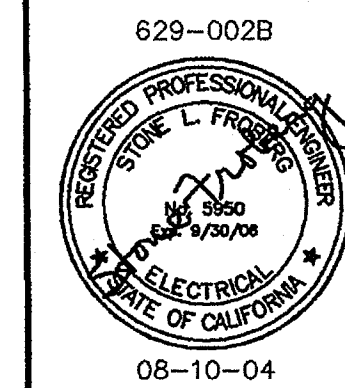
TYPICAL CABLE TRAY SUPPORT CONDITIONS
NO SCALE

7
E4-3



THREADED ROD MOUNTING TO STEEL BEAMS
NO SCALE

8
E4-3



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

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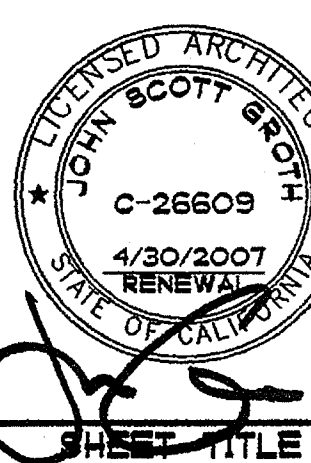
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OLD NO.
758-000
PROJECT NOS.
025
P. T. N.
73569-9
DATE
REVISIONS

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.



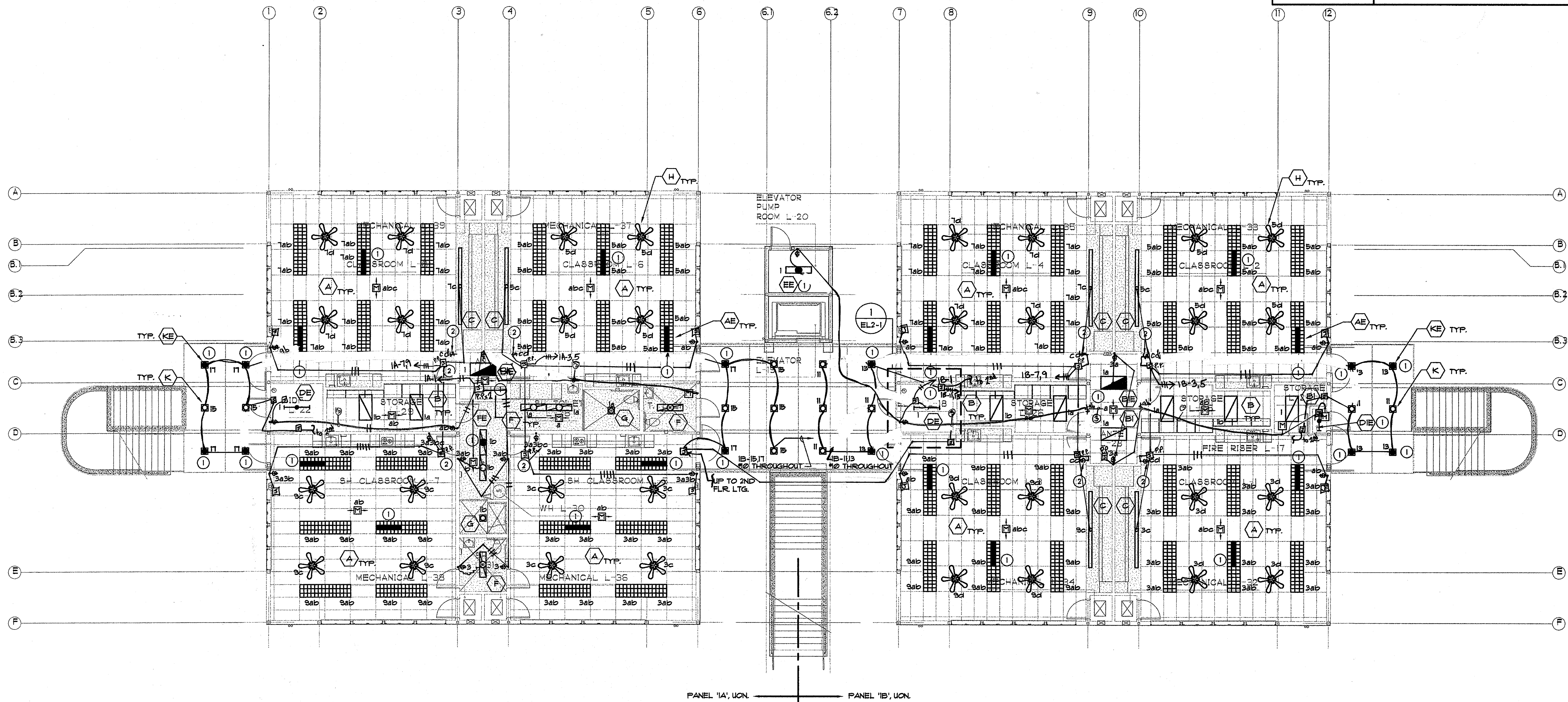
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DATE MAR 28 2005



SHEET TITLE

DETAILS

E4-3



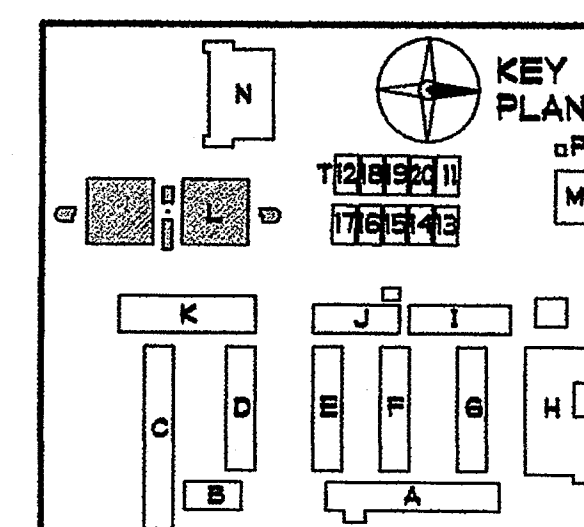
BUILDING L- FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"

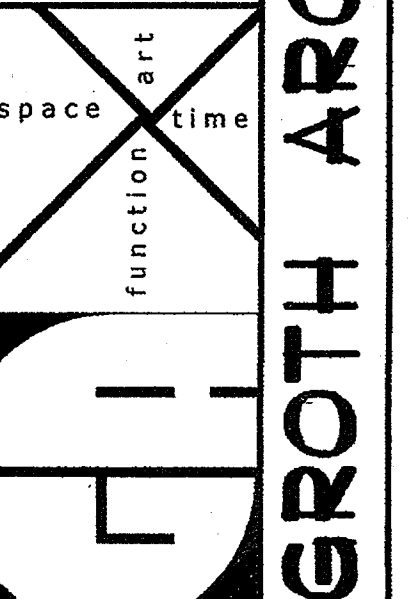
NOTES:

- ① FIXTURE SHALL BE SWITCHED. PROVIDE ADDITIONAL UNSWITCHED CONDUCTOR TO FIXTURE FOR PROPER STANDBY OPERATION OF BATTERY PACK.
- ② FAN CONTROL PROVIDED WITH CEILING FAN FIXTURE.
- ③ roughed in slab on grade.

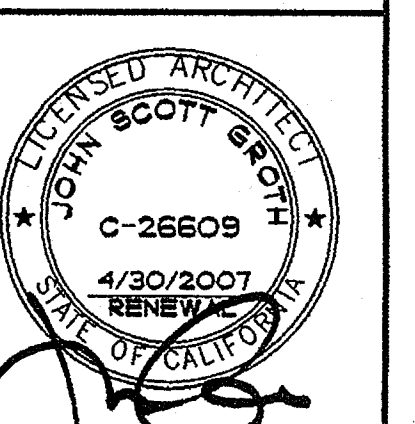
PP = J-box w/ Power Pak for Motion Sensor



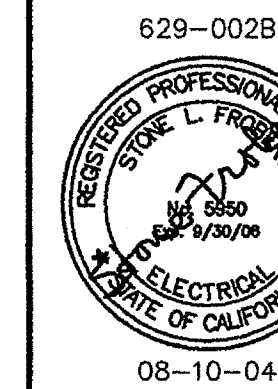
JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
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SHEET TITLE
BUILDING L
FIRST FLOOR
LIGHTING PLAN
EL1-1



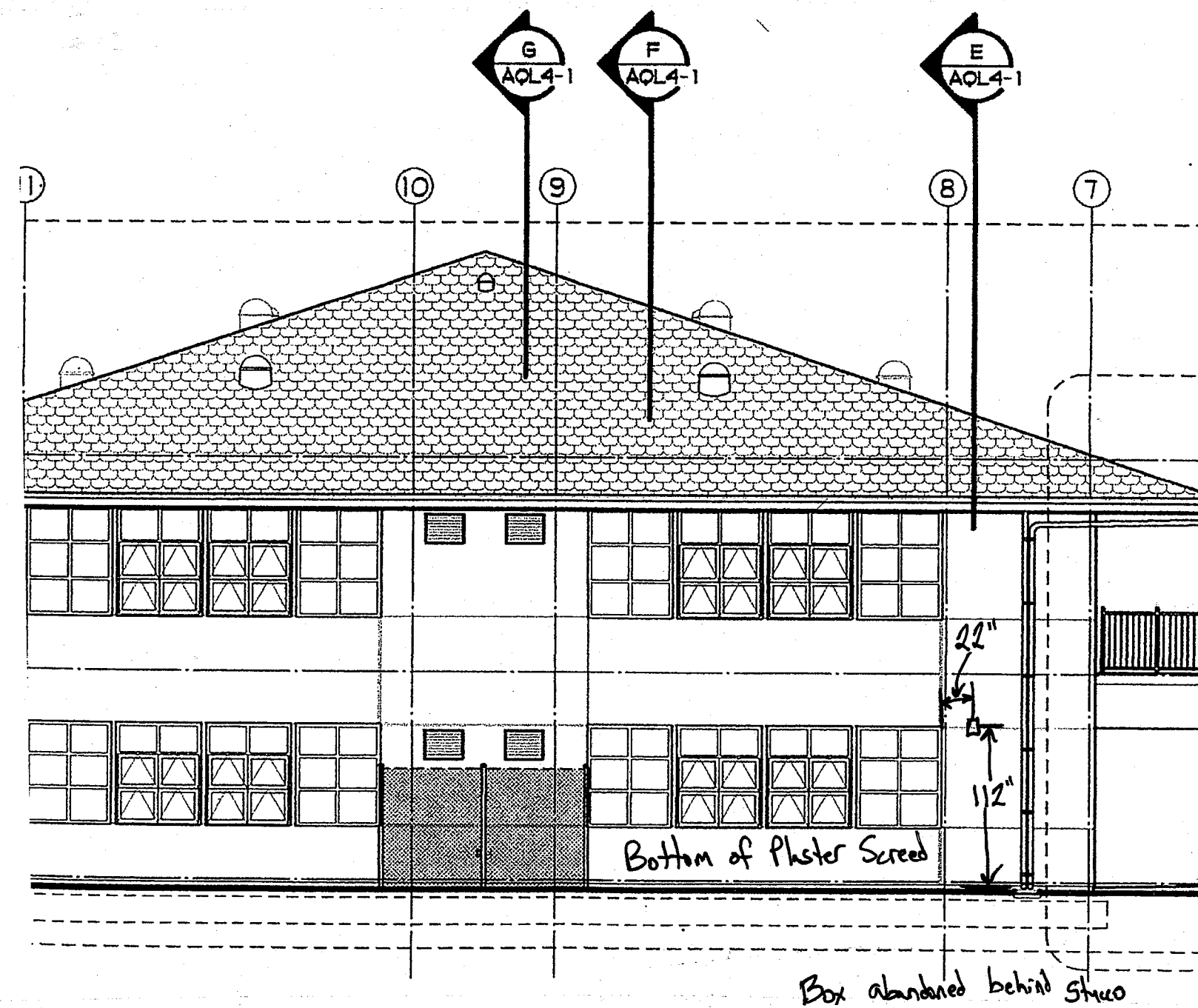
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3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

PLOTTED 3/18/05
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QUAD NO.
758-000
PROJECT NOS.
025
P. T. N.
73569-9
DATE
REVISIONS

PHONE 760-754-8191
FAX 760-754-8291

3355 MISSION AVE
SUITE 234
OCEANSIDE, CALIFORNIA 92054



Request for Information 032

Detailed, Grouped by each number, with routing info



Request for Information 032
Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/Ocean Project # 575
823 Acacia Street
Oceanside, CA 92054
Tel: 760-967-8188 Fax: 760-967-8222

Soltek

Pacific

RFI #	032	Importance:	High	Date Created:	7/8/2
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Panel MA	Electrical	
Specification Section	Reference	Reference Drawings

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Not Sure		Not Sure		Not Sure
Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments		

Sketch Numbers

Author Company	Author By	Author RFI Number
Soltek Pacific	Matt Caronna	

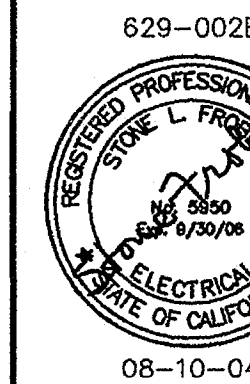
Cc: Company Name	Contact Name	Copies	Notes
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Question Date Required: 7/15/2005
Reference sheets EL2-1 and AOL3-1. In building L at grid lines 3 & 4 and C on the 1st floor there is a wall shown with (3) flush panels that has Pn's MA, MAA and 1A in it. 1st of all this wall is only 4" deep and panels 1A and MAA are 5.75" deep. This wall needs to be a 6" wall.
Next Pn's MA because of the amount and size of breakers in this panel can only come surface mount and is 75" h x 32" w x 10" d. Also because the door swings out (3) panels can not fit here anyway.
Gould electric has attached a drawing showing our proposed location for panel MA now. Please advise if this location is acceptable and if the wall housing for 1A and MAA will be changed to a 6" wall.
Also please look at the second floor recessed panel locations. Panel 2B and 2A need to be at least 6" walls, which it appears they are, but the same wall where 2B is shown there is also elevator signage shown. Attachment will be faxed.

Suggestion

Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Dale Sana	

Answer Date Answered: 7/13/2005
See ASI #13, and related sketches sk-05, 06, & 07.
These are located for viewing in the Projects folder.
Signed copies to follow tomorrow.



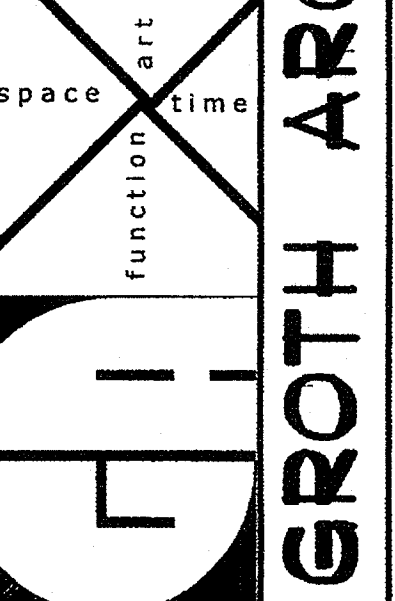
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 3625 Ruffin Rd., Suite 300
 San Diego, CA 92123
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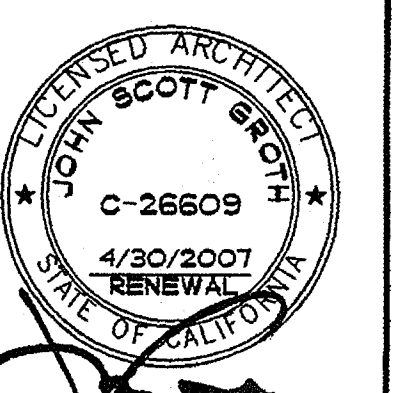
PROJECT NO.
 758-000
PROJECT NOS.
 025
P. T. N.
 73569-9
DATE

JEFFERSON M9 NEW CONSTRUCTION
 823 ACACIA STREET
 OCEANSIDE, CA 92054
 OCEANSIDE UNIFIED S.D.



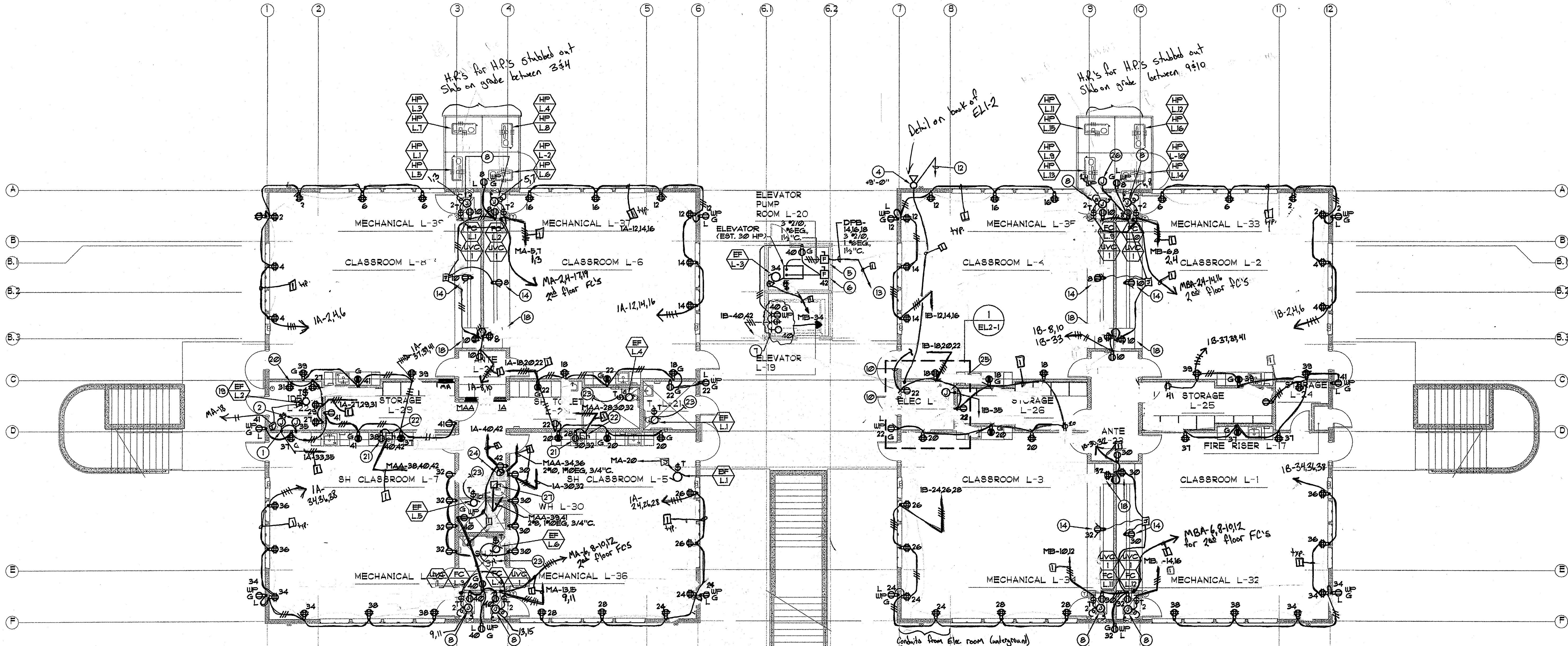
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 OFFICE OF REGULATION SERVICES

4-106494
 AC [Signature] SS [Signature]
 DATE MAR 28 2005



SHEET TITLE
 BUILDING L
 FIRST FLOOR
 POWER PLAN

EL2-1

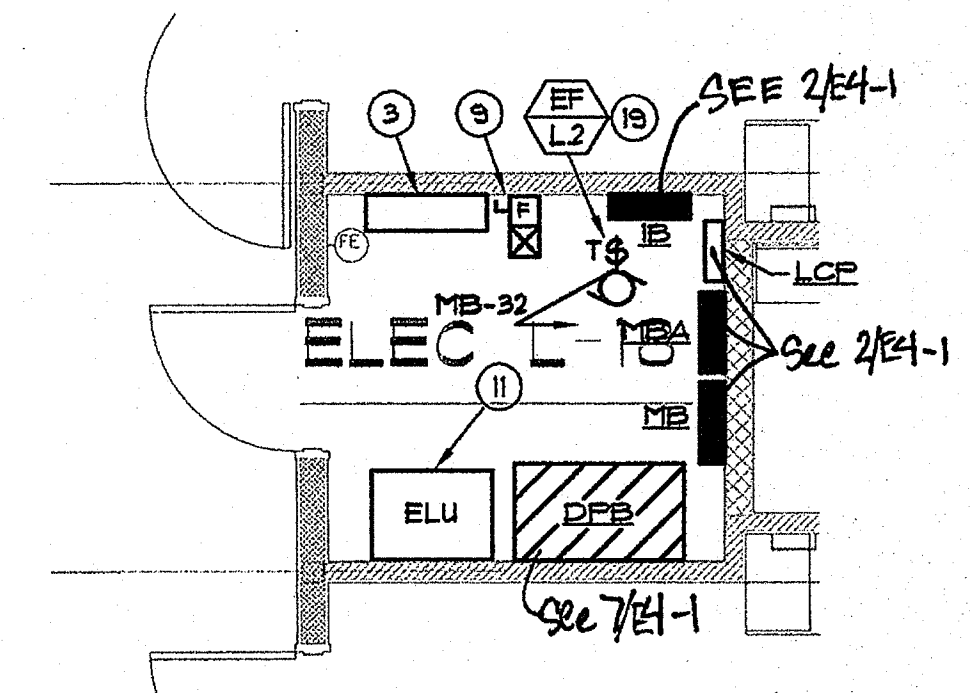


MECHANICAL UNIT - ELECTRICAL EQUIPMENT SCHEDULE				
UNIT NO.	FUSED DISCONNECT SWITCH SIZE (16)(11)	STARTER	CONDUIT AND CONDUCTOR SIZE TO UNIT	BRANCH CIRCUIT
HP-L1	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-13,5
HP-L2	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-13,11
HP-L3	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-13,15,17
HP-L4	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-13,21,23
HP-L5	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-2,4,6
HP-L6	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-8,10,12
HP-L7	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-14,16,18
HP-L8	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-20,22,24
HP-L9	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-26,28,30
HP-L10	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-32,34,36
HP-L11	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-38,40,42
HP-L12	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-44,46,48
HP-L13	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-50,52,54
HP-L14	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-56,58,60
HP-L15	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-62,64,66
HP-L16	3/35/60 240 VOLT NEMA 3R	-	3"Ø, 1ØEG, 3/4"C.	MAA-68,70,72

SWITCH RATING (AMPS)
 FUSE SIZE (AMPS)
 NUMBER OF POLES

BUILDING L - FIRST FLOOR POWER PLAN

1/8" = 1'-0"



ELECTRICAL ROOM #L-18

1/4" = 1'-0"

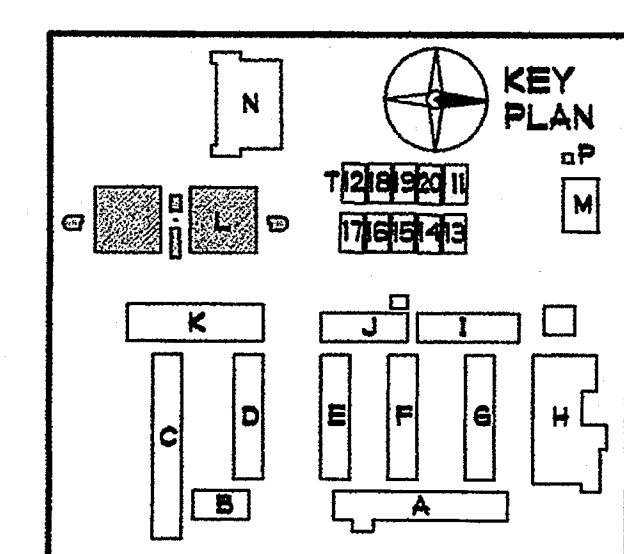
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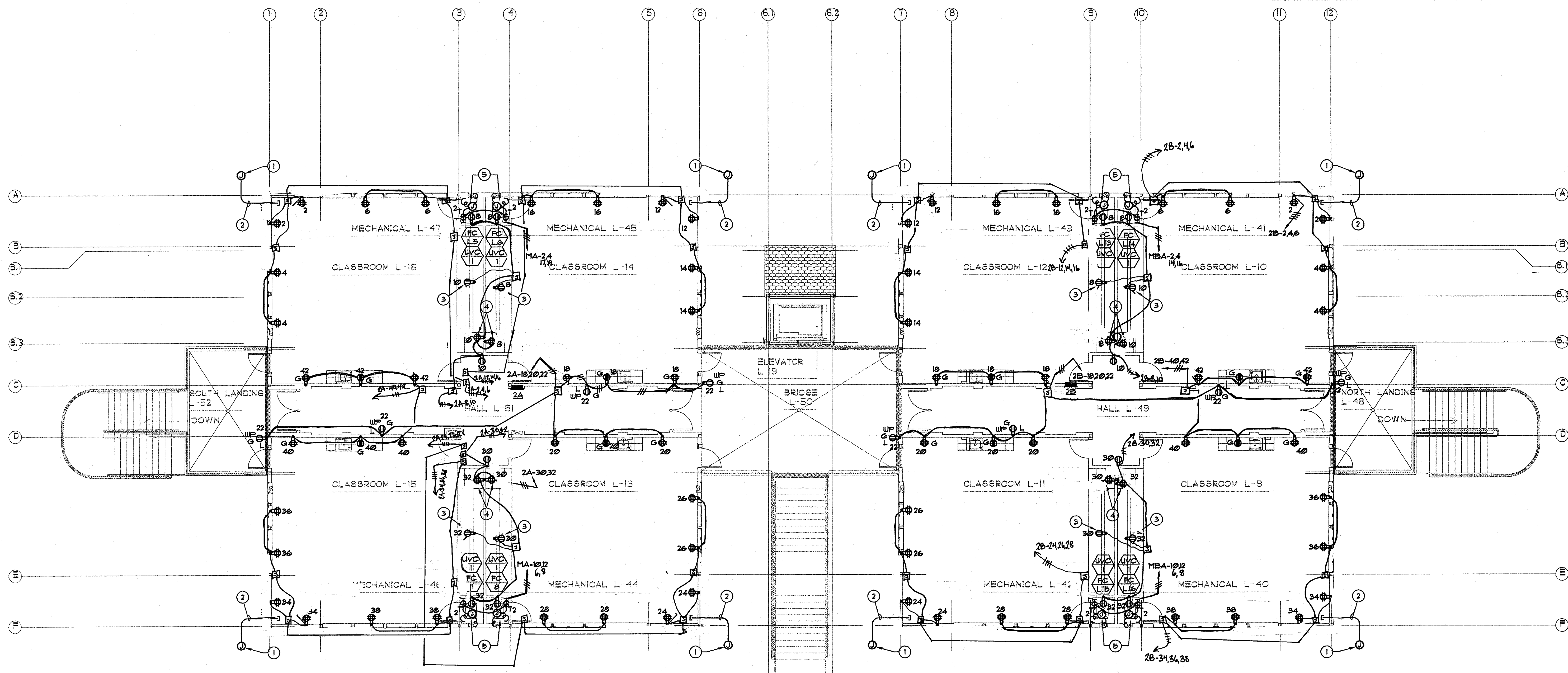
1. MOUNT AT 48" AFF. AND CONNECT TO "SNAC" PANEL 5.
2. MOUNT AT 48" AFF. AND CONNECT TO GAS DETECTOR PANEL.
3. INSTALL PUMP CONTROL PANEL FURNISHED BY DIV. 2. SEE SHEET E0-5, SEE 2/E4-1
4. INSTALL PUMP ALARM HORN FURNISHED BY DIV. 2.
5. PROVIDE 200A-3P FUSED SWITCH WITH TIME-DELAY CURRENT LIMITING FUSES AS RECOMMENDED BY ELEVATOR MANUFACTURER. PROVIDE LIMIT SWITCH WITH FORM 'C' CONTACTS WIRED TO ELEVATOR CONTROLLER TO INDICATE WHEN FUSED SWITCH IS IN 'OPEN' POSITION.
6. PROVIDE 30A-2P FUSED SWITCH WITH 15A CURRENT LIMITING FUSES, FOR CAR LIGHTS.
7. COORDINATE ROUGH-IN LOCATION FOR PIT LIGHT, SWITCH & RECEPTACLE WITH ELEVATOR SHOP DRAWINGS.
8. PROVIDE 120V CONNECTIONS FROM FAN COIL CIRCUIT TO UVC-1 AND MOTORIZED DAMPER.
9. COMBINATION STARTER FOR EXISTING GRINDER STATION. SEE SHEET E0-5, SEE 2/E4-1
10. TO EXTERIOR RECEPTABLES AT GRINDER STATION & LIFT STATION. SEE SHEET E0-5.
11. EMERGENCY LIGHTING UNIT. SEE 7/E4-1
12. 1/2"C. 2Ø4 TO PUMP CONTROL PANEL.
13. SEE SINGLE LINE DIAGRAM, SHEET E0-5 FOR REQUIREMENTS.
14. MOUNT RECEPTACLE OUTLET HORIZONTALLY IN FALSE DRAWER FRONT.
15. MOUNT ON RIGID CONDUIT RISER(S).
16. HEAVY DUTY FUSED DISCONNECT SWITCH.
17. FUSE SIZES ARE INDICATED FOR REFERENCE ONLY. VERIFY AND PROVIDE FUSE SIZE PER MANUFACTURER'S NAMEPLATE.
18. FOR MOUNTING HEIGHT, SEE ARCHITECTURAL INTERIOR ELEVATION.
19. CONNECT TO THERMOSTAT, SEE 5/M-3.1.
20. MOUNT RECEPTACLE OUTLET IN SIGNAL TERMINAL CABINET.
21. RECEPTACLE OUTLET FOR RANGE HOOD. REFER TO RANGE HOOD SHOP DRAWING FOR MOUNTING HEIGHT.
22. 2ØA/2P ENCLOSED CIRCUIT BREAKER FOR COOKTOP. REFER TO COOKTOP SHOP DRAWINGS FOR MOUNTING HEIGHT.
23. CONNECT TO LIGHTING SWITCH IN THIS ROOM.
24. RECEPTACLE OUTLET FOR OWNER FURNISHED EQUIPMENT. VERIFY ELECTRICAL REQUIREMENTS PRIOR TO START OF WORK.
25. JUNCTION BOX AT 48" AFF. FOR 'LCP'.
26. JUNCTION BOX AT 48" AFF. FOR IRRIGATION CONTROLLER.
27. 6ØA/2P, 240V NON-FUSIBLE DISCONNECT SWITCH FOR WATER HEATER.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT OUTLET LOCATION.

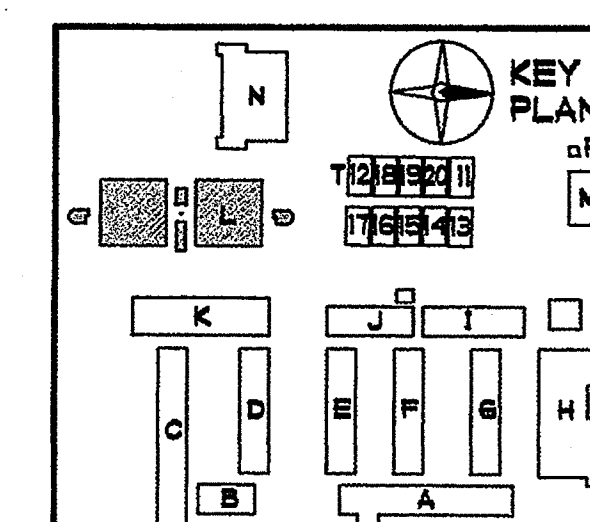
11 - rough slab on grade



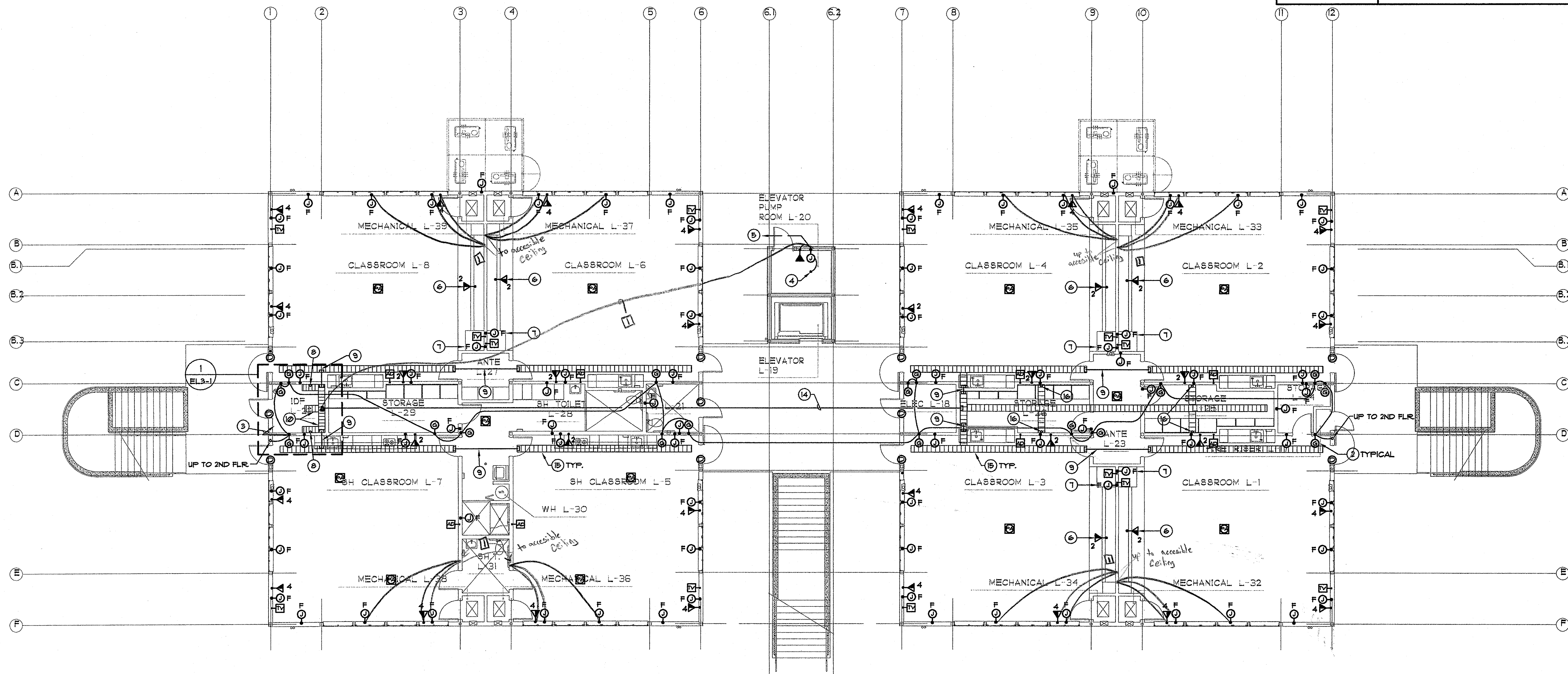

$$1/8'' = 1'-0''$$

- ① PROVIDE JUNCTION BOXES FOR FUTURE SURVEILLANCE CAMERA. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. SEE DETAIL 6/E-1.
- ② PROVIDE (2) 3/4" C.O. WITH INSULATED BUSHINGS STUBBED ABOVE ACCESSIBLE CEILING.
- ③ MOUNT RECEPTACLE OUTLET HORIZONTALLY IN FALSE DRAWER FRONT.
- ④ FOR MOUNTING HEIGHT, SEE ARCHITECTURAL INTERIOR ELEVATION.
- ⑤ PROVIDE 120V CONNECTIONS FROM FAN COIL CIRCUIT TO UVC-1 AND MOTORIZED DAMPER.

1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT OUTLET LOCATION.

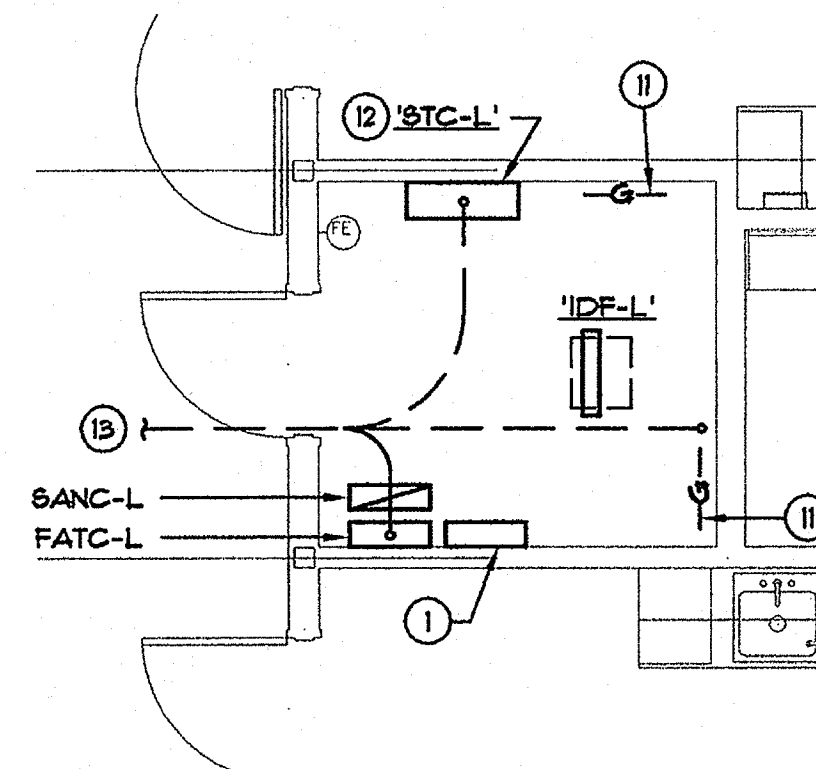


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BUILDING L- FIRST FLOOR SIGNAL PLAN

1/8" = 1'-0"



IDF ROOM #L22

1/4" = 1'-0"

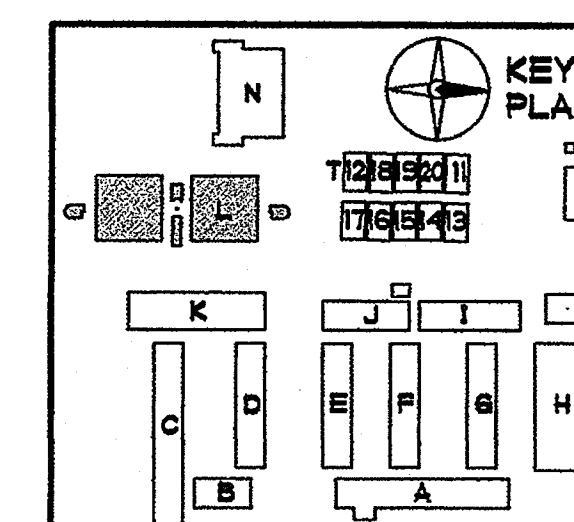
SHEET NOTES:

- 1 GAS DETECTOR PANEL.
- 2 METHANE GAS DETECTOR. INSTALL 1'-0" BELOW FIN. CEILING PER MANUFACTURER'S INSTRUCTIONS.
- 3 TO GAS DETECTOR PANEL.
- 4 CONNECT 3/4" C.O. TO ELEVATOR CONTROLLER.
- 5 (1) 1" C.O. TO STC-L.
- 6 MOUNT OUTLET HORIZONTALLY IN FALSE DRAWER FRONT.
- 7 FOR MOUNTING HEIGHT, SEE ARCHITECTURAL INTERIOR ELEVATIONS.
- 8 6'-2" C. FROM SECOND FLOOR CLASSROOM. STUB CONDUIT ABOVE CABLE TRAY WITH INSULATED BUSHINGS.
- 9 4'-2" C. ABOVE CABLE TRAY WITH INSULATED BUSHINGS.
- 10 12" WIDE LADDER RACK WALL MOUNTED AT 8'-0" AFF. WITH SECTION SUSPENDED ABOVE 'IDF-L'.
- 11 COMMUNICATION GROUND BUS PER DETAIL 1/E4-2.
- 12 30" SQ. x 8" DEEP SIGNAL TERMINAL CABINET WITH HINGED FRONT VENTILATED LOUVER DOOR AND 3/4" THICK PLYWOOD. ROUTE (3) 2" C. TO THE LADDER RACK FOR CABLE ROUTING. TERMINATE CONDUITS ON LADDER RACK WITH INSULATED BUSHINGS.
- 13 SEE SITE PLAN FOR CONTINUATION.
- 14 5'-2" C. AND 4'-3" C. ABOVE CABLE TRAY WITH INSULATED BUSHINGS.
- 15 PROVIDE 12" WIDE x 4" DEEP CABLE TRAY ABOVE ACCESSIBLE CEILING. REFER TO DETAILS ON SHEET E4-3 FOR MOUNTING REQUIREMENTS.
- 16 4'-2" C. FROM SECOND FLOOR CLASSROOM. STUB CONDUIT ABOVE CABLE TRAY WITH INSULATED BUSHINGS.

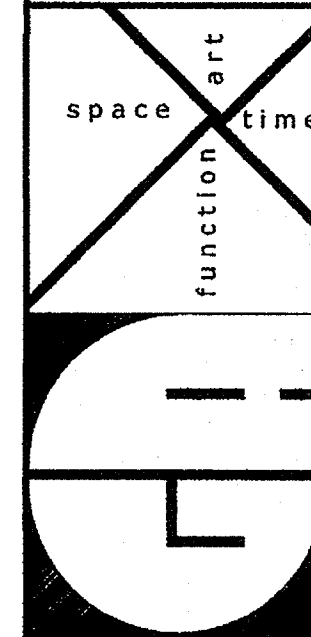
GENERAL NOTES:

1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT OUTLET LOCATION.

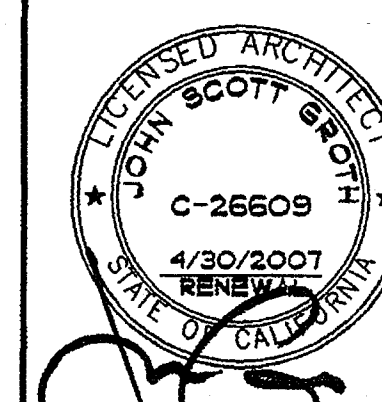
11- slab on grade



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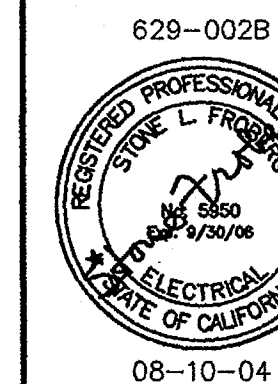


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SHEET TITLE
BUILDING L
FIRST FLOOR
SIGNAL PLANS

EL3-1



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

PLOTTED @ 3/18/05
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QUSET NO.
758-000
PROJECT NOS.
025
P. T. N.
73569-9
DATE
REVISIONS

PHONE 760-754-8191
FAX 760-754-8291
SUITE 234
92054
3355 MISSION AVE.
OCEANSIDE, CALIFORNIA



Request for Information 002

Detailed, Grouped by each number, with routing info

Note 2 / sheet EL3-2
EL3-1

Jefferson Middle School, New Construction/Ocean Project # 575
823 Acacia Street
Oceanside, CA 92054
Tel: 760-967-8188 Fax: 760-967-8222 Soltek Pacific

RFI # 002		Importance: Urgent		Date Created: 5/6/2005	
From	Company	Sent	For	Via	
To	Company	Received	Comments		
Matt Caronna	Soltek Pacific	5/6/2005			
Matt Caronna	Soltek Pacific	5/6/2005			
Steve Shires	PinnacleOne/Barnhart, Inc.	5/6/2005			

Subject	Discipline	Category
Methane Gas Detectors	Electrical	Plan/Spec Discrepancies
Specification Section	Reference	Reference Drawings

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Yes		Not Sure		Yes
Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments		

Sketch Numbers

Author Company	Authored By	Author RFI Number
Soltek Pacific	Matt Caronna	

Cc: Company Name	Contact Name	Copies	Notes
------------------	--------------	--------	-------

Question
Referencing Sheet EL3-1 and EL3-2 note 2 states Methane gas detector. Install 1'-0" below finish ceiling per manufacturer's instructions. There is no specification for this device or work. Please Clarify.
Date Required: 5/13/2005

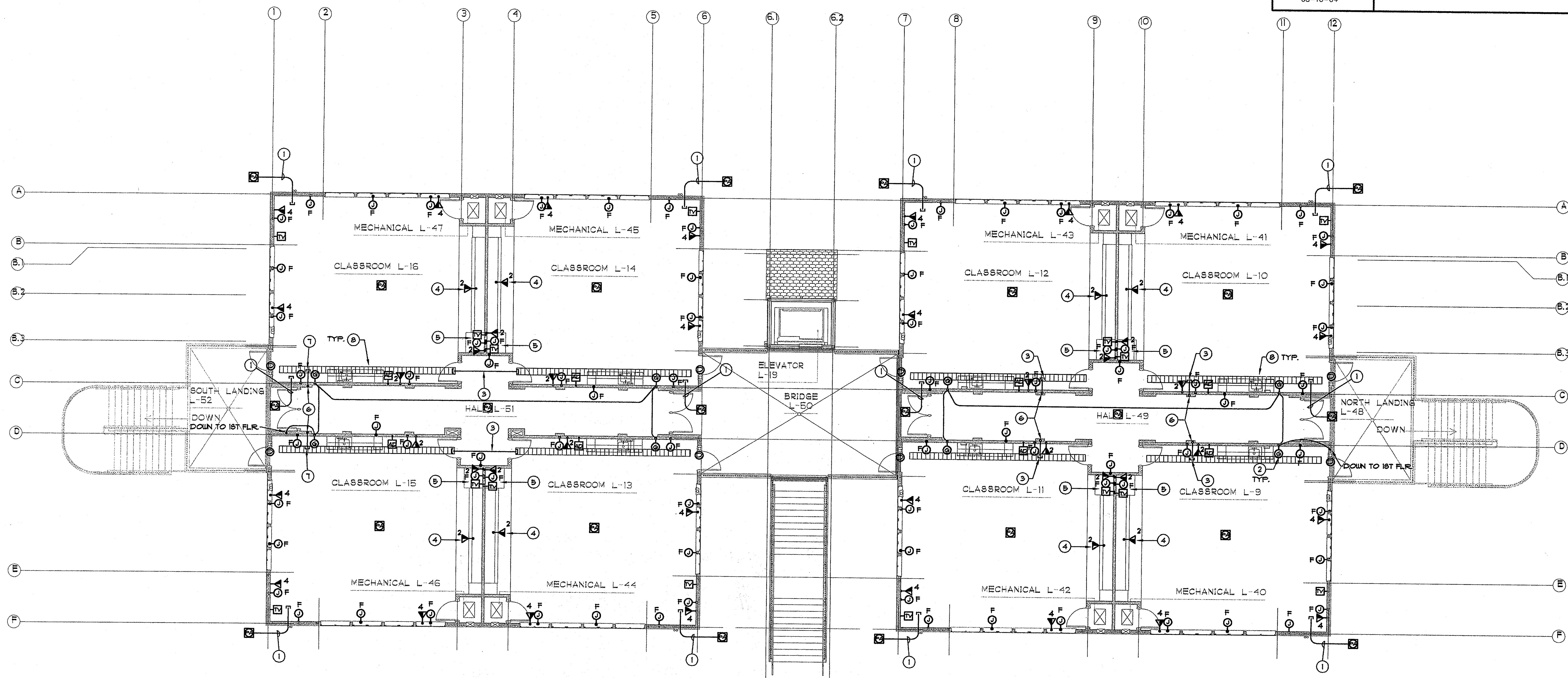
Suggestion

Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Steve Shires	

Answer
Engineer's Comments:
Date Answered: 5/11/2005

Methane Detectors Shall be by: Macurcos Inc. - Model GD-ZA
Hard copies & email PDF File sent as of 05/10/05 to Steve Shires, and Arthur-Serata.

FILE: J:\629-0028\6292EL32.dwg, Mar. 21, 2005 - 9:38am
XREF: 6292FP2.dwg QL floor plan 2.dwg 6292BDR.dwg 6292B-KEYPLAN.dwg QL cing plan 2.dwg QL elec plan 2.dwg



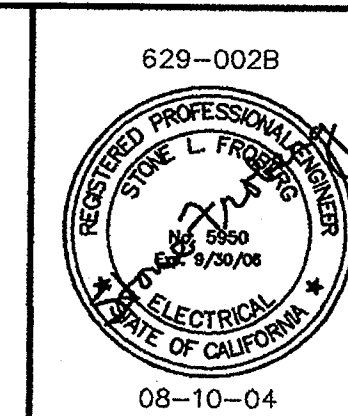
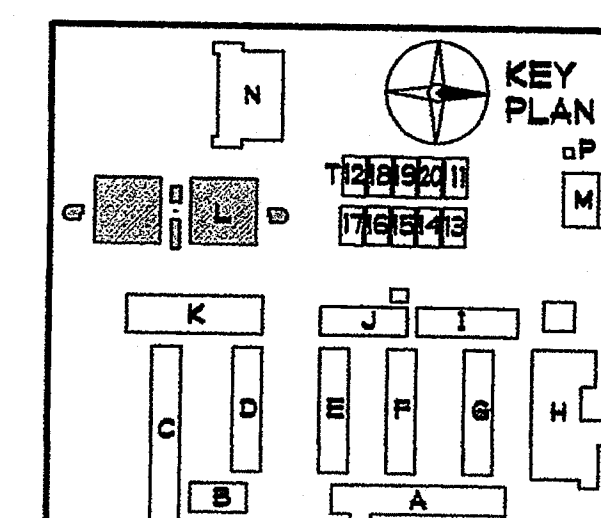
BUILDING L - SECOND FLOOR SIGNAL PLAN
1/8" = 1'-0"

SHEET NOTES:

- 1 3/4" C. ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHING.
- 2 METHANE GAS DETECTOR. INSTALL 1'-0" BELOW FIN. CEILING PER MANUFACTURER'S INSTRUCTIONS.
- 3 STUB 4-2" C. ABOVE CABLE TRAY WITH INSULATED BUSHINGS.
- 4 MOUNT OUTLET HORIZONTALLY IN FALSE DRAWER FRONT.
- 5 FOR MOUNTING HEIGHT, SEE ARCHITECTURAL INTERIOR ELEVATIONS.
- 6 DOWN TO FIRST FLOOR CABLE TRAY.
- 7 STUB 6-2" C. ABOVE CABLE TRAY WITH INSULATED BUSHINGS.
- 8 PROVIDE 12" WIDE x 4" DEEP CABLE TRAY ABOVE ACCESSIBLE CEILING. REFER TO DETAILS ON SHEET E4-3 FOR MOUNTING REQUIREMENTS.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT OUTLET LOCATION.

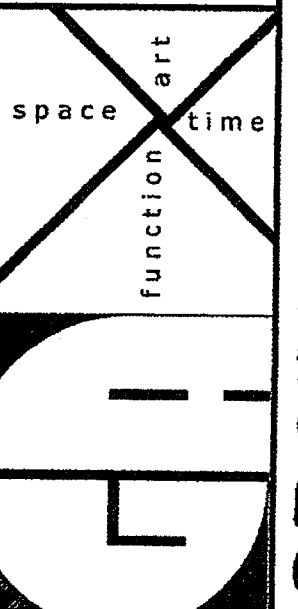


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Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

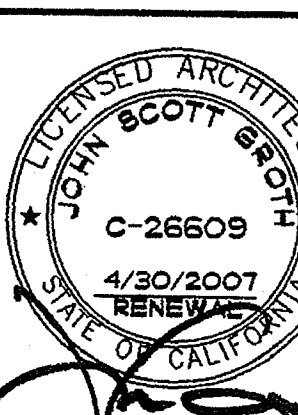
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758-000
PROJECT NOS.
025
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73569-9
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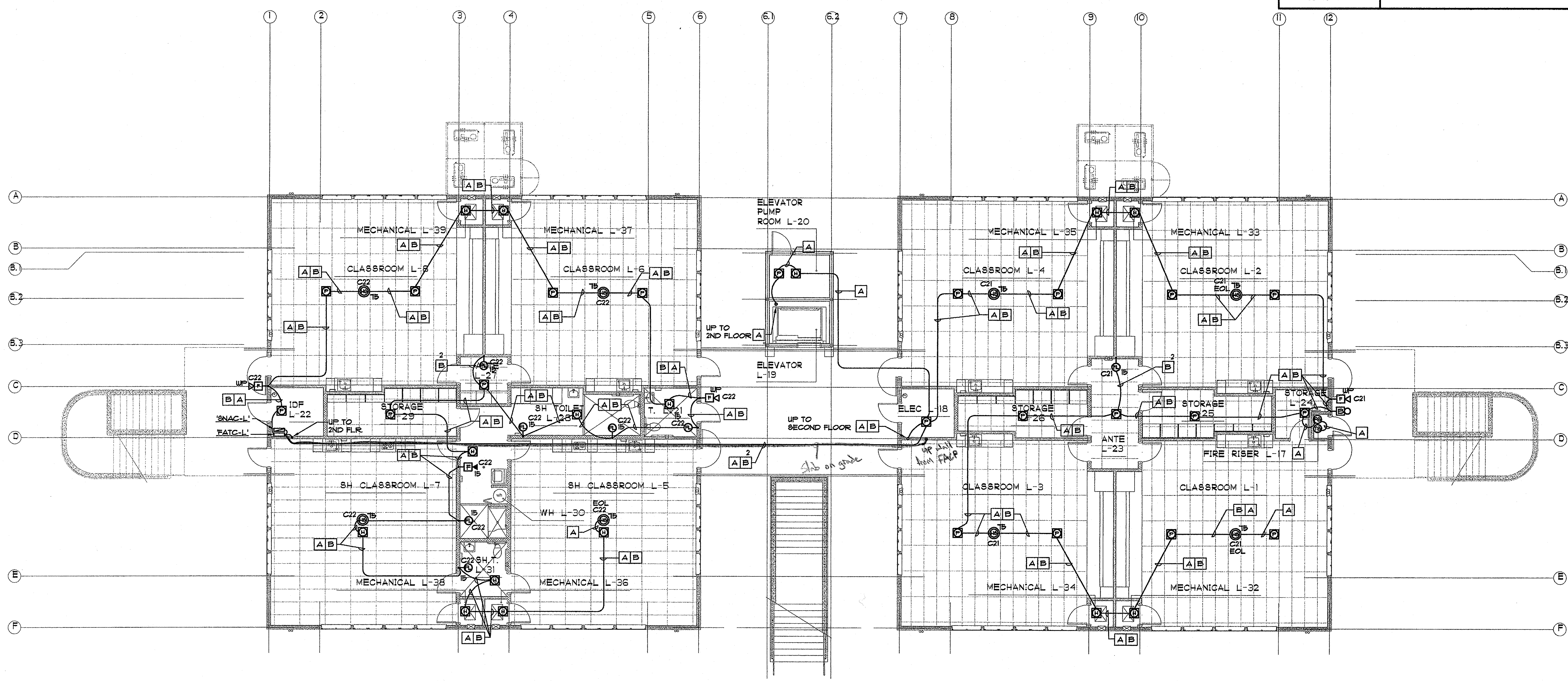
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DATE MAR 28 2005



SHEET TITLE
BUILDING L
SECOND FLOOR
SIGNAL PLAN

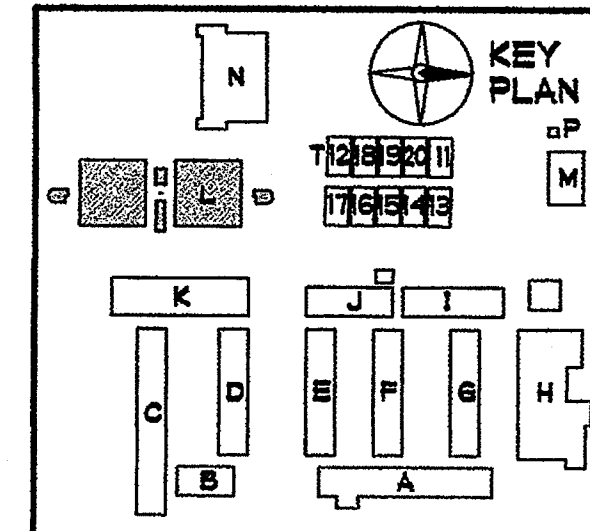
EL3-2

GROTH ARCHITECTS, INC. 3355 MISSION AVE. SUITE 234 OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191 FAX 760-754-8291

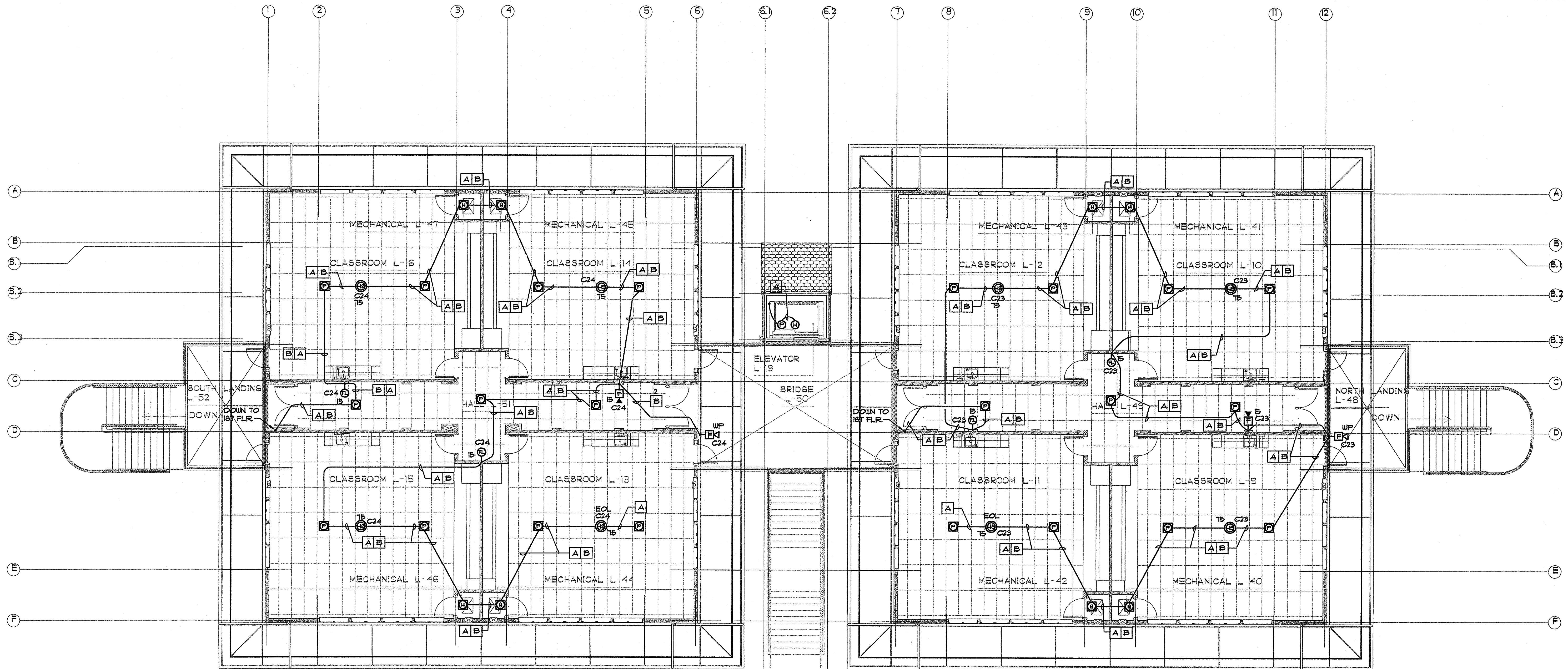


D&A NOTE:
THIS IS A COMPLETE AUTOMATIC
FIRE ALARM SUBMITTAL.

BUILDING L - FIRST FLOOR FIRE ALARM PLAN

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


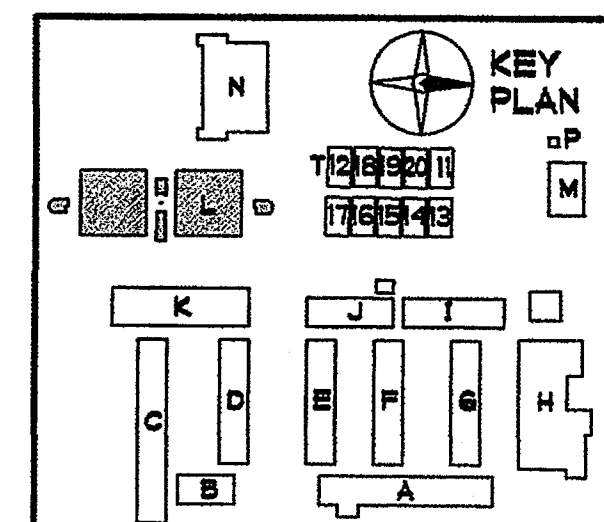
FILE: J:\629-002B\6292EL42.dwg Mar 21, 2005 - 9:39am
XREF: 6292BDR.dwg QL floor plan 2.dwg 6292B-KEYPLAN.dwg QL cing plan 2.dwg



BUILDING L- SECOND FLOOR FIRE ALARM PLAN

1/8" = 1'-0"

DSA NOTE:
THIS IS A COMPLETE AUTOMATIC
FIRE ALARM SUBMITTAL.



629-002B

08-10-04

ILA ZAMMIT ENGINEERING GROUP

Consulting Electrical Engineers

3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
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CLIENT NO.

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PROJECT NO.

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JEFFERSON MS NEW CONSTRUCTION

823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

space art
function time

GROTH ARCHITECTS, INC.
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SHEET TITLE

BUILDING L
SECOND FLOOR
FIRE ALARM PLANS

EL4-2

PANEL: 2B		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 225A		MAIN: LUGS ONLY			
LOCATION: CORR.		MOUNTING: RECESSED		AC RATING: 22,000A		FEED: TOP X BOTTOM X			
CIRCUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN P. PANEL			
ITEM	CODE	BRG	OKT	A	B	C	OKT	BRG	ITEM
LIT - CLASSROOM L-10	L	20/1	1	1468			2	20/1	R RECEPT CLASSROOM L-10
				720					
LIT - CLASSROOM L-9	L	20/1	3		1468		4	20/1	R RECEPT CLASSROOM L-10
					720				
LIT - CLASSROOM L-12	L	20/1	5			1468		20/1	R RECEPT CLASSROOM L-10
						720	6		
LIT - CLASSROOM L-11	L	20/1	7	1468				20/1	R RECEPT LEARNING WALL L-12
				900			8		
LIT - CORRIDOR	L	20/1	9		284			20/1	R RECEPT LEARNING WALL L-10
					720				
SPARE		20/1	11				10	20/1	R RECEPT CLASSROOM L-12
							720	12	
SPARE		20/1	13					20/1	R RECEPT CLASSROOM L-12
				720			14		
SPARE		20/1	15			720		20/1	R RECEPT CLASSROOM L-12
							16		
SPARE		20/1	17					20/1	R RECEPT CLASSROOM L-12
						900	18		
SPARE		20/1	19					20/1	R RECEPT CLASSROOM
				900			20		
SPARE		20/1	21					20/1	R RECEPT L-49
					720		22		
SPARE		20/1	23					20/1	R RECEPT CLASSROOM L-11
						720	24		
BUSSED SPACE			25					20/1	R RECEPT CLASSROOM L-11
			27	720			26		
BUSSED SPACE								20/1	R RECEPT CLASSROOM L-11
					720		28		
BUSSED SPACE			29					20/1	R RECEPT LEARNING WALL L-11
						720	30		
BUSSED SPACE			31					20/1	R RECEPT LEARNING WALL L-9
				900			32		
BUSSED SPACE			33					20/1	R RECEPT CLASSROOM L-9
					720		34		
BUSSED SPACE			35					20/1	R RECEPT CLASSROOM L-9
						720	36		
BUSSED SPACE			37					20/1	R RECEPT CLASSROOM L-9
				720			38		
BUSSED SPACE			39					20/1	R RECEPT CLASSROOM L-9
					900		40		
BUSSED SPACE			41					20/1	R RECEPT CLASSROOM L-10
						900	42		DEMAND 214
CONN. VA PHASE A	8512	CONN. VA (CODE N)		0		DEMAND KVA		20.8	
CONN. VA PHASE B	6880	CONN. VA (CODE L)		6158		DEMAND AMPS		57.8	
CONN. VA PHASE C	6885	CONN. VA (CODE R)		16200		CONN. AMPS		62.1	
TOTAL CONN. VA	22358	CONN. VA (CODE K)		0		HIGH PH AMPS/CL		77.0	

PANEL: 1B		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 225A		MAIN: LUGS ONLY			
LOCATION/Elev. Rm		MOUNTING: SURFACE		AC RATING: 22,000A		FEED: TOP X BOTTOM X			
CIRCUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN P. PANEL			
ITEM	CODE	BRG	OKT	A	B	C	OKT	BRG	ITEM
LIT - L-24, L-25, L-26	L	20/1	1	682				20/1	R RECEPT CLASSROOM L-2
ELECT. - L-18, ELEV. L-23, L-28	L	20/1	3	900				2	
LIT - CLASSROOM L-1	L	20/1	3		1470			20/1	R RECEPT CLASSROOM L-2
LIT - CLASSROOM L-2	L	20/1	5		720			4	
LIT - CLASSROOM L-2	L	20/1	5			1470		20/1	R RECEPT CLASSROOM L-2
LIT - CLASSROOM L-4	L	20/1	7	1470		720		6	
LIT - CLASSROOM L-3	L	20/1	9	900				8	
LIT - EXTERIOR	L	20/1	11		1470			20/1	R RECEPT LEARNING WALL L-4 AND EXTERIOR
LIT - EXTERIOR	L	20/1	11		900			10	
LIT - EXTERIOR	L	20/1	13	990		1620		20/1	R RECEPT CLASSROOM L-4
LIT - EXTERIOR	L	20/1	13	720		900		12	
LIT - EXTERIOR	L	20/1	15		1628			14	
LIT - EXTERIOR	L	20/1	17		720			20/1	R RECEPT CLASSROOM L-4
SPARE		20/1	19			990		16	
SPARE		20/1	21	1080		900		20/1	R RECEPT CLASSROOM L-3
SPARE		20/1	23		900			22	
SPARE		20/1	25			900		20/1	R RECEPT ELEC. L-110, STOR. L-26 AND LIFT STATION
SPARE		20/1	27					20/1	R RECEPT CLASSROOM L-3
SPARE		20/1	29		720			28	
SPARE		20/1	31			900		30	
SPARE		20/1	33	900				32	
SPARE		20/1	35		500			20/1	R RECEPT CLASSROOM L-1
SPARE		20/1	37		500			34	
SPARE		20/1	39			100		20/1	R RECEPT CLASSROOM L-1
SPARE		20/1	41			720		36	
SPARE		20/1	43					20/1	R RECEPT CLASSROOM L-1
SPARE		20/1	45					38	
SPARE		20/1	47		900			20/1	N RECEPT & LIT ELEVATOR
SPARE		20/1	49		460			40	PUMP ROOM L-19, L-20
SPARE		20/1	51			900		20/1	L ELEVATOR PUMP ROOM L-20
SPARE		20/1	53			200		42	CAR LIGHTS
CONN. VA PHASE A	9982	CONN. VA (CODE N)	1060	DEMAND KVA		30.3			
CONN. VA PHASE B	11288	CONN. VA (CODE L)	11990	DEMAND AMPS		84.2			
CONN. VA PHASE C	10320	CONN. VA (CODE R)	18540	CONN. AMPS		87.8			
TOTAL CONN. VA	31590	CONN. VA (CODE K)	0	HIGH PH AMPS/CL		103.6			

PANEL: MB		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 225A		MAIN: LUGS ONLY				
LOCATION/ELEV		MOUNTING: SURFACE		AC RATING: 22,000A		FEED: TOP X BOTTOM X				
CRUIT CODE: blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN P: PANEL				
ITEM	CODE	BRG	OKT	A	B	C	OKT	BRG	CODE	ITEM
HP-L-16	L	35/	1	2151				15/	L	FC-L-9 / MOTORIZED DAMPER
				596			2			
SAME OKT AS ABOVE	L	/	3		2151			/2	L	SAME OKT AS ABOVE UVC-1
					568		4			
SAME OKT AS ABOVE	L	/3	5			2151		15/	N	FC-L10 / MOTORIZED
						596	6			
HP-L-12L	N	35/	7	2151				/2	N	SAME OKT AS ABOVE UVC-1
				568			8			
SAME OKT AS ABOVE	N	/	9		2151			/2	N	FC-L11 / MOTORIZED DAMPER
					596		10			
SAME OKT AS ABOVE	N	/3	11			2151		/2	N	SAME OKT AS ABOVE UVC-1
						568	12			
HP-L-14H	N	35/	13	2151				15/	N	FC-L12 / MOTORIZED
				596			14			
SAME OKT AS ABOVE	N	/	15		2151			/2	N	SAME OKT AS ABOVE UVC-1
					568		16			
SAME OKT AS ABOVE	N	/3	17			2151		20/1		SPARE
						2151	18			
HP- L-10	N	45/	19	2151				20/1		SPARE
				2151			20			
SAME OKT AS ABOVE	N	/	21		2151			20/1		SPARE
					2151		22			
SAME OKT AS ABOVE	N	/3	23			2151		20/1		SPARE
						2151	24			
SPARE		20/1	25					20/1		SPARE
							26			
SPARE		20/1	27					20/1		SPARE
							28			
SPARE		20/1	29					20/1		SPARE
							30			
SPARE		20/1	31					20/1	N	EF-L2
			333				32			
SPARE		20/1	33					20/1	L	EF-L4
				696			34			
SPARE		20/1	35					20/1	N	SUMP PUMP
						830	36			
BUSSED SPACE		37								BUSSED SPACE
							38			
BUSSED SPACE		39								BUSSED SPACE
							40			
BUSSED SPACE		41								BUSSED SPACE
							42			
CONN. VA PHASE A	12748	CONN. VA (CODE N)		32918		DEMAND KVA		42.9		
CONN. VA PHASE B	13183	CONN. VA (CODE L)		8313		DEMAND AMPS		119.2		
CONN. VA PHASE C	14900	CONN. VA (CODE R)		0		CONN. AMPS		113.4		
TOTAL CONN. VA	40631	CONN. VA (CODE K)		0		HIGH PH AMPS/CL		128.6		

PANEL: MBA		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 100A		MAIN: LUGS ONLY						
LOCATION: ELEV. Rm.		MOUNTING: SURFACE		AC RATING: 22,000A		FEED: TOP X BOTTOM X						
CRUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN						
ITEM	CODE	BRG	OKT	A	B	C	OKT	BRG	CODE	ITEM		
HP-L-11	N	35/	1	2151				2	15/	N	FC-L14/UC-1	
				568								
SAME OKT AS ABOVE	N	/	3		2151			4	/2	N	SAME OKT AS ABOVE MOTORIZED DAMPER	
					596							
SAME OKT AS ABOVE	N	/3	5			2151		15/	N	FC-L15/UC-1		
								568	6			
HP-L-15	N	35/	7	2151					8	/2	N	SAME OKT AS ABOVE MOTORIZED DAMPER
				596								
SAME OKT AS ABOVE	N	/	9		2151			15/	N	FC-L16/UC-1		
					568			10				
SAME OKT AS ABOVE	N	/3	11			2151		12	N	SAME OKT AS ABOVE MOTORIZED DAMPER		
						596						
HP-L-9	N	35/	13	2151					14	15/	N	FC-L13/UC-1
				568								
SAME OKT AS ABOVE	N	/	15		2151			16	/2	N	SAME OKT AS ABOVE MOTORIZED DAMPER	
					596							
SAME OKT AS ABOVE	N	/2	17			2151					SAME OKT AS ABOVE	
								18				
HP-L-13	N	35/	19	2151					20		SAME OKT AS ABOVE	
SAME OKT AS ABOVE	N	/	21		2151			22		SAME OKT AS ABOVE		
SAME OKT AS ABOVE	N	/3	23			2151		24		SAME OKT AS ABOVE		
BUSSED SPACE			25					26		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			27					28		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			29					30		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			31					32		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			33					34		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			35					36		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			37					38		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			39					40		SAME OKT AS ABOVE		
SAME OKT AS ABOVE			41					42		SAME OKT AS ABOVE		
CONN. VA PHASE A		10336	CONN. VA (CODE N)		30468	DEMAND KVA		30.5				
CONN. VA PHASE B		10364	CONN. VA (CODE L)		0	DEMAND AMPS		84.6				
CONN. VA PHASE C		9788	CONN. VA (CODE R)		0	CONN. AMPS		84.6				
TOTAL CONN. VA		30468	CONN. VA (CODE K)		0	HIGH PH AMPS/CL		86.4				

PANEL: 2A		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 225A		LUGS ONLY		
LOCATION: CORR.		MOUNTING: RECESSED		AC RATING: 22,000A		FEED: TOP X BOTTOM X		
CRUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN P. PANEL		
ITEM	CODE	BRG	OKT	B	C	OKT	BRK	ITEM
LIT - CLASSROOM L-14	L	20/1	1	1468		2	20/1	R RECEPT CLASSROOM L-16
				720				
LIT - CLASSROOM L-13	L	20/1	3		1468	4	20/1	R RECEPT CLASSROOM L-16
					720			
LIT - CLASSROOM L-16	L	20/1	5			1468	20/1	R RECEPT CLASSROOM L-16
						720		
LIT - CLASSROOM L-15	L	20/1	7	1468		8	20/1	R RECEPT LEARNING WALL L-14
				900				
LIT - CORRIDOR	L	20/1	9		294		20/1	R RECEPT LEARNING WALL L-16
					720			
SPARE		20/1	11			10	20/1	R RECEPT CLASSROOM L-14
						720		
SPARE		20/1	13			12	20/1	R RECEPT CLASSROOM L-14
				720				
SPARE		20/1	15			14	20/1	R RECEPT CLASSROOM L-14
					720			
SPARE		20/1	17			16	20/1	R RECEPT CLASSROOM L-14
						900		
SPARE		20/1	19			18	20/1	R RECEPT CLASSROOM L-13
				900		20		
SPARE		20/1	21			20	20/1	R RECEPT L-51
					720	22		
SPARE		20/1	23			21	20/1	R RECEPT CLASSROOM L-13
						720		
BUSSED SPACE			25			23	20/1	R RECEPT CLASSROOM L-13
				720		25		
BUSSED SPACE			27			26	20/1	R RECEPT CLASSROOM L-13
					720	28		
BUSSED SPACE			29			27	20/1	R RECEPT LEARNING WALL L-13
						720		
BUSSED SPACE			31			30	20/1	R RECEPT LEARNING WALL L-15
				900		32		
BUSSED SPACE			33			29	20/1	R RECEPT CLASSROOM L-15
					720	34		
BUSSED SPACE			35			31	20/1	R RECEPT CLASSROOM L-15
						720		
BUSSED SPACE			37			32	20/1	R RECEPT CLASSROOM L-15
				720		38		
BUSSED SPACE			39			33	20/1	R RECEPT CLASSROOM L-15
					720	40		
BUSSED SPACE			41			34	20/1	R RECEPT CLASSROOM L-16
						900		
CONN. VA PHASE A		8512	CONN. VA (CODE N)		0	DEMAND KVA		20.7
CONN. VA PHASE B		6880	CONN. VA (CODE L)		6158	DEMAND AMPS		57.5
CONN. VA PHASE C		6885	CONN. VA (CODE R)		16020	CONN. AMPS		61.6
TOTAL CONN. VA		22378	CONN. VA (CODE K)		0	HIGH PH AMPS/CL		77.0

PANEL: 1A		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 225A		LUGS ONLY					
LOCATION: MOUNTING: RECESSED		AC RATING: 22,000A		FEED: TOP X BOTTOM X		P. PANEL					
CIRCUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN					
ITEM	CODE	BRG	OKT	A	B	C	OKT	BRG	CODE	ITEM	
LIT - STOR. L-29 TOILET L-21, L-28, L-31 INF. L-22, ANTE L-27, E	L	20/1	1	1295				2	20/1	R	RECEPT CLASSROOM L-8
LIT - CLASSROOM L-5	L	20/1	3	720							
LIT - CLASSROOM L-6	L	20/1	5			1124			20/1	R	RECEPT CLASSROOM L-8
LIT - CLASSROOM L-6	L	20/1	5			720			4		
LIT - CLASSROOM L-6	L	20/1	5				1218		20/1	R	RECEPT CLASSROOM L-8
LIT - CLASSROOM L-6	L	20/1	5				720	6			
LIT - CLASSROOM L-6	L	20/1	7	1218					20/1	R	RECEPT LEARNING WALL L-6
LIT - CLASSROOM L-7	L	20/1	9	720				8			
LIT - CLASSROOM L-7	L	20/1	9			1124			20/1	R	RECEPT LEARNING WALL L-8
LIT - CLASSROOM L-7	L	20/1	9			900		10			
LIT - CLASSROOM L-7	L	20/1	11						20/1	R	RECEPT CLASSROOM L-6
LIT - CLASSROOM L-7	L	20/1	11				900	12			
LIT - CLASSROOM L-7	L	20/1	13						20/1	R	RECEPT CLASSROOM L-6
LIT - CLASSROOM L-7	L	20/1	15			720		14			
LIT - CLASSROOM L-7	L	20/1	15						20/1	R	RECEPT CLASSROOM L-6
LIT - CLASSROOM L-7	L	20/1	17			720		18			
LIT - CLASSROOM L-7	L	20/1	17						20/1	R	RECEPT CLASSROOM L-6
LIT - CLASSROOM L-7	L	20/1	17				720	18			
SPARE		20/1	19						20/1	R	RECEPT CLASSROOM L-5
SPARE		20/1	19			900			20/1	R	RECEPT CLASSROOM L-5
SPARE		20/1	21				900		20/1	R	RECEPT TOILET L-21, L-28
SPARE		20/1	21					22			
SPARE		20/1	23						20/1	R	RECEPT CLASSROOM L-5
SPARE		20/1	25				900	24			
SPARE		20/1	25						20/1	R	RECEPT CLASSROOM L-5
DEF RM L-22	N	20/1	27			720		26			
DEF RM L-22	N	20/1	27						20/1	R	RECEPT CLASSROOM L-5
DEF RM L-22	N	20/1	27			720		28			
DEF RM L-22	N	20/1	29				500		20/1	R	RECEPT CLASSROOM L-5
DEF RM L-22	N	20/1	29				720	30			
STD-L	N	20/1	31			500			20/1	R	RECEPT CLASSROOM L-7
STD-L	N	20/1	31			900		32			
SNAC PANEL #5	N	20/1	33				500		20/1	R	RECEPT CLASSROOM L-7
SNAC PANEL #5	N	20/1	33				900				
SNAC PANEL #5	N	20/1	33					34			
GAS DETECTOR PANEL	N	20/1	35						20/1	R	RECEPT CLASSROOM L-7
GAS DETECTOR PANEL	N	20/1	35				500				
GAS DETECTOR PANEL	N	20/1	35					720	36		
RECEPT CLASS RM L-7	R	20/1	37			720			20/1	R	RECEPT CLASSROOM L-7
RECEPT CLASS RM L-7	R	20/1	37					38			
RECEPT CLASS RM L-8	R	20/1	39			720			20/1	R	RM L-28, L-31, MECH RM
RECEPT CLASS RM L-8	R	20/1	39			1080		40			
RECEPT CIR. L-29, L-8, L-7	R	20/1	41				720		20/1	N	WASHER
RECEPT CIR. L-29, L-8, L-7	R	20/1	41					42			
CONN. VA PHASE A	9133	CONN. VA (CODE N)		4220					DEMAND KVA		25.8
CONN. VA PHASE B	10128	CONN. VA (CODE L)		5979					DEMAND AMPS		71.6
CONN. VA PHASE C	9118	CONN. VA (CODE R)		18180					CONN. AMPS		78.8
TOTAL CONN. VA	28379	CONN. VA (CODE K)		0					HIGH PH AMPS/CL		88.1

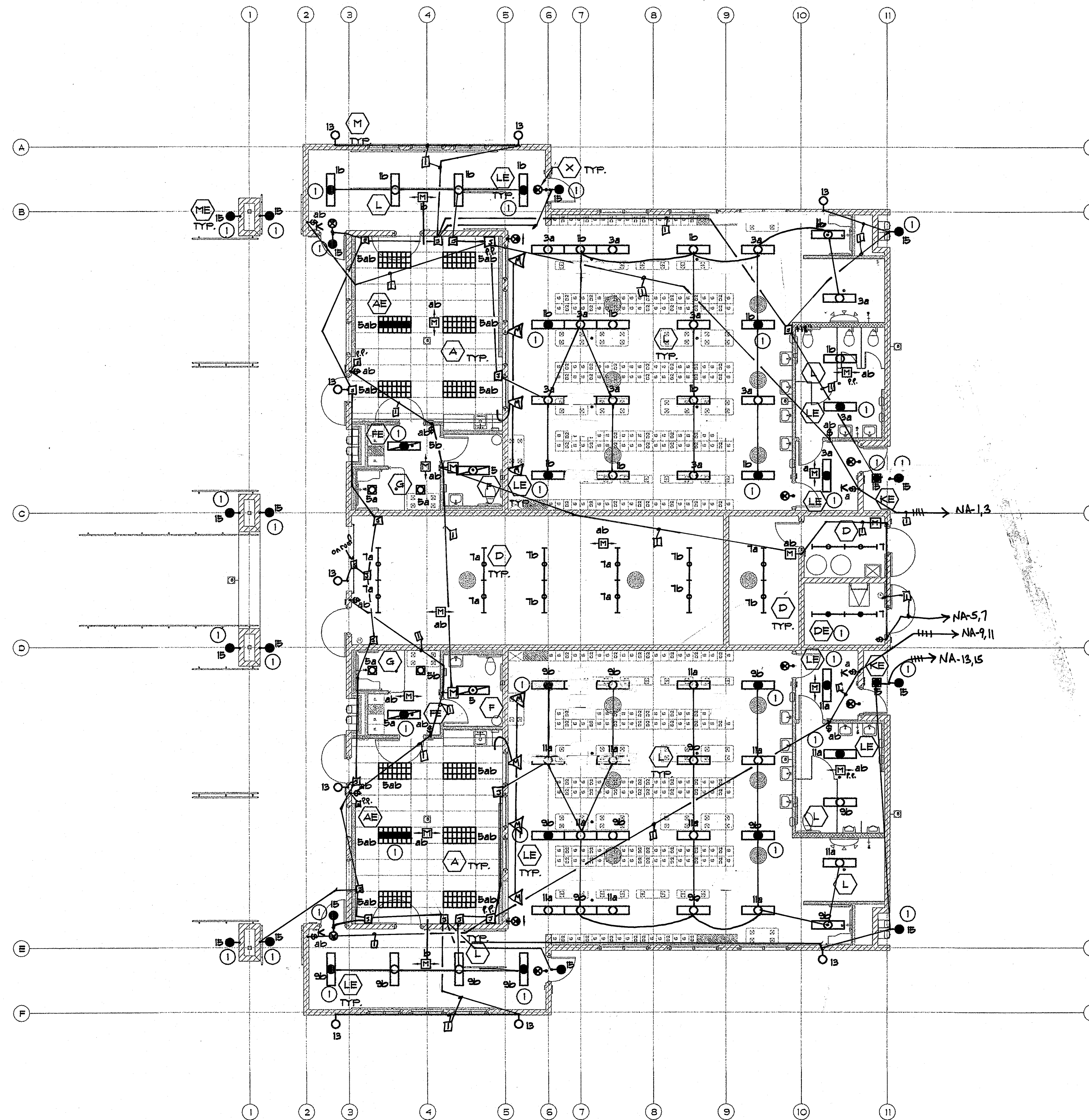
PANEL: MA		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 400A		MAIN: 400A/3P M.C.B.	
LOCATION: CORR.		MOUNTING: RECESSED		ARC RATING: 22,000A		FEED: TOP X BOTTOM X	
CIRCUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP.T'S		K: KITCHEN	
ITEM	CODE	BRG	OKT	A	B	C	ITEM
FC-L-1 / MOTORIZED DAMPER	L	15/	1	596			FC-L8/UC-1
				568		2	
SAME OKT AS ABOVE	L	/2	3	568		/2	SAME OKT AS ABOVE
UVC-1				568		4	MOTORIZED DAMPER
FC-L-2 / MOTORIZED DAMPER	N	15/	5		596	15/	FC-L7/UC-1
					568	6	
SAME OKT AS ABOVE	N	/2	7	568		/2	SAME OKT AS ABOVE
UVC-1						8	MOTORIZED DAMPER
FC-L-3 / MOTORIZED DAMPER	N	15/	9	596		15/	FC-L8/UC-1
				568		10	
SAME OKT AS ABOVE	N	/2	11		568	/2	SAME OKT AS ABOVE
UVC-1					596	12	MOTORIZED DAMPER
FC-L-4 / MOTORIZED DAMPER	N	15/	13	596			
						14	BUSSED SPACE
SAME OKT AS ABOVE	N	/2	15	568			BUSSED SPACE
UVC-1						16	
FC-L-5 / MOTORIZED DAMPER	N	15/	17		596	15/	FC-L8/UC-1
					233	18	
SAME OKT AS ABOVE	N	/2	19	568		15/	N
				60		18	BF-L1
BUSSED SPACE			21			20/	SPARE
						22	
BUSSED SPACE			23			20/	SPARE
						24	
BUSSED SPACE			25			20/	SPARE
						26	
BUSSED SPACE			27			20/	SPARE
						28	
BUSSED SPACE			29			20/	SPARE
						30	
BUSSED SPACE			31				BUSSED SPACE
						32	
BUSSED SPACE			33				BUSSED SPACE
						34	
BUSSED SPACE			35				BUSSED SPACE
						36	
SURFED 2A	P	150/	37	8512		150/	P
				9133		38	SURFED "1A"
PART OF CIRCUIT ABOVE	P	/	39	6800		/	P
				10128		40	PART OF CIRCUIT ABOVE
PART OF CIRCUIT ABOVE	P	/3	41		6866	/3	P
					9118	42	PART OF CIRCUIT ABOVE
CONN. VA PHASE A	21197	CONN. VA (CODE N)		16881		DEMAND KVA	87.9
CONN. VA PHASE B	19624	CONN. VA (CODE L)		25430		DEMAND AMPS	244.1
CONN. VA PHASE C	19141	CONN. VA (CODE R)		68400		CONN. AMPS	167.1
TOTAL CONN. VA	60062	CONN. VA (CODE K)		0		HIGH PH AMPS/CL	291.6

PANEL: MAA		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 400A		MAIN: 400A/3P M.C.B.					
LOCATION: 2ND FLOOR		MOUNTING: RECESSED		AC RATING: 22,000A		FEED: TOP BOTTOM X					
CIRCUIT CODE: Blank or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECP.T'S		K: KITCHEN					
ITEM	CODE	BRG	OKT	A	B	C	OKT	BRG	CODE	ITEM	
HP-L-1	L	35/	1	2151				35/	N	HP-L-5	
				2151				2			
SAME OKT AS ABOVE	L	/	3		2151			/	N	SAME OKT AS ABOVE	
					2151			4			
SAME OKT AS ABOVE	L	/	5			2151		/	N	SAME OKT AS ABOVE	
						2151		6			
HP-L-2	N	35/	7	2151				35/	N	HP-L-6	
				2151				8			
SAME OKT AS ABOVE	N	/	9		2151			10	N	SAME OKT AS ABOVE	
					2151			11			
SAME OKT AS ABOVE	N	/	11			2151		/	N	SAME OKT AS ABOVE	
						2151		12			
HP-L-3	N	35	13	2151				35/	N	HP-L-7	
				2151				14			
SAME OKT AS ABOVE	N	/	15		2151			/	N	SAME OKT AS ABOVE	
					2151			16			
SAME OKT AS ABOVE	N	/	17			2151		/	N	SAME OKT AS ABOVE	
						2151		18			
HP-L-4	N	35	19	2151				35/	N	HP-L-8	
				2151				20			
SAME OKT AS ABOVE	N	/	21		2151			/	N	SAME OKT AS ABOVE	
					2151			22			
SAME OKT AS ABOVE	N	/	23			2151		/	N	SAME OKT AS ABOVE	
						2151		24			
SPARE		20/1	25					20/1		SPARE	
								28			
SPARE		20/1	27					20/1	N	RANGE HOOD	
				300				28			
SPARE		20/1	29					20/	K	COOK TOP	
								30			
BUSSED SPACE		31			1600			/	2	K SAME OKT AS ABOVE	
								32			
BUSSED SPACE		33						30/	N	DRYER	
						2880		34			
BUSSED SPACE		35						/	2	N SAME OKT AS ABOVE	
								2880			
BUSSED SPACE		37						20/1	K	RANGE HOOD	
				300				38			
WH-30	N	40/	39		3000			20/	K	COOK TOP	
					1600			40			
SAME AS CIRCUIT ABOVE	N	/	41			3000		/	2	K SAME OKT AS ABOVE	
						1600		42			
CONN. VA PHASE A		19108		CONN. VA (CODE N)		57231		DEMAND KVA		70.0	
CONN. VA PHASE B		24988		CONN. VA (CODE L)		6453		DEMAND AMPS		194.4	
CONN. VA PHASE C		26228		CONN. VA (CODE R)		0		CONN. AMPS		195.5	
TOTAL CONN. VA		70324		CONN. VA (CODE K)		0		HIGH PH AMPS/CL		223.5	

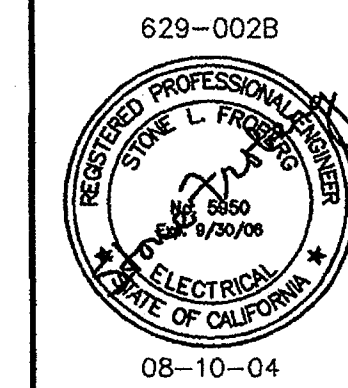
- 1 PROVIDE HANDLE LOCK-ON DEVICE.
- 2 PROVIDE RED CIRCUIT BREAKER.
- 3 SEE DETAIL 1/E4-1 AND 2/E4-1.

PNL 2B	PNL 1B	PNL MB	PNL MBA
PNL 2A	PNL 1A	PNL MA	PNL MAA

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XREF: SL floor plan.dwg SL cng plan.dwg 6292BDR.dwg 6292B-KEYPLAN.dwg



BUILDING N- LIGHTING PLAN
1/8" = 1'-0"



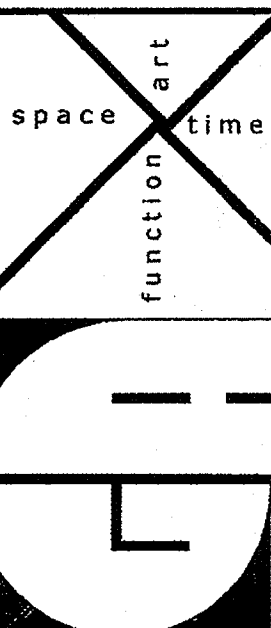
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Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

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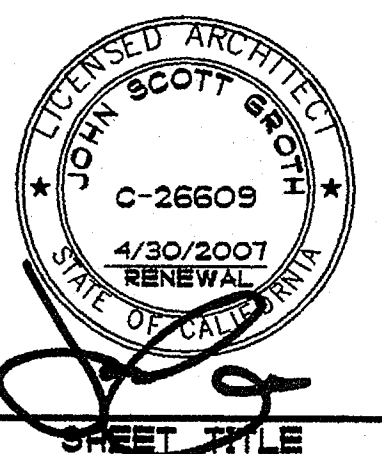
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629-002B
08-10-04

OUTD NO.
758-000
PROJECT NOS.
025
P. T. N.
73569-9
DATE
REVISIONS

JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.



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DATE MAR 28 2005



SHEET TITLE
BUILDING N
LIGHTING PLAN

EN1-1

NOTES:

1. FIXTURE SHALL BE SWITCHED. PROVIDE ADDITIONAL UNSWITCHED CONDUCTOR TO FIXTURE FOR PROPER STANDBY OPERATION OF BATTERY PACK.

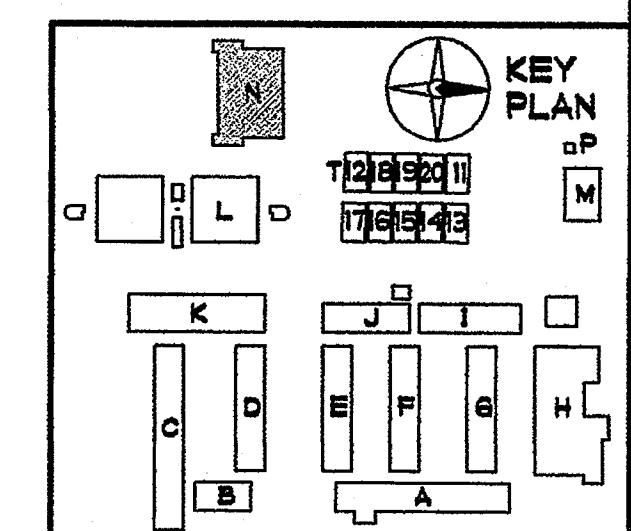
GENERAL NOTES:

1. CONNECT ALL LIGHTING FIXTURES TO PANEL 'NA'.
2. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXACT LIGHT FIXTURE LOCATION.

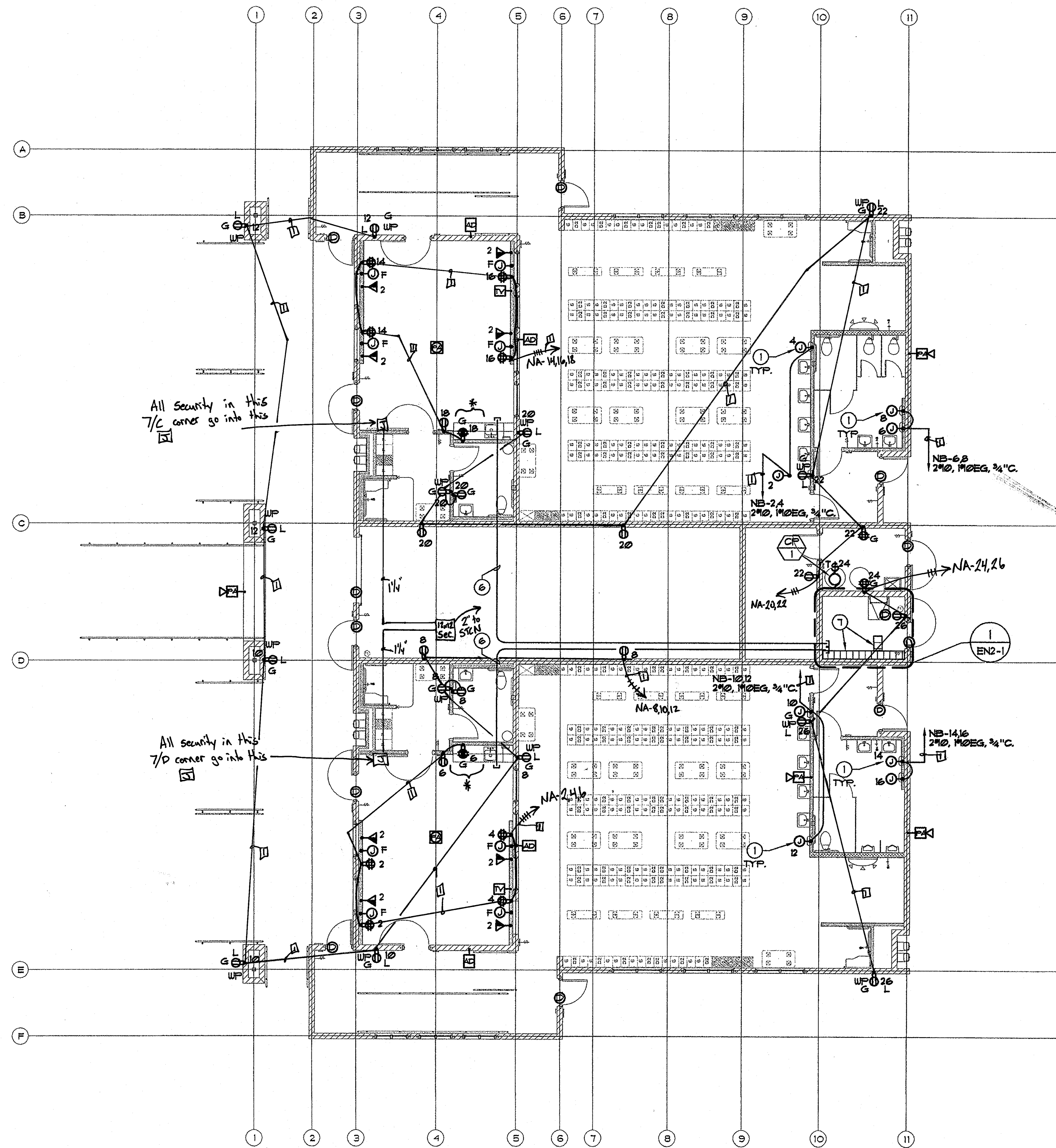
P.P. = motion power pac

II-shb on grade

△: motion sensor

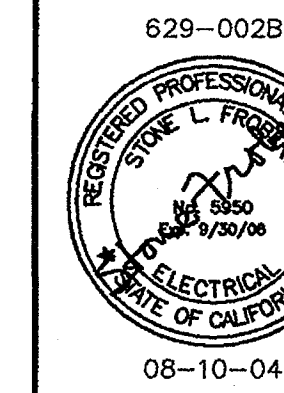


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XREF: SL floor plan.dwg SL ele plan.dwg 6292BDR.dwg 6292BKEYPLAN.dwg SL sing plan.dwg



BUILDING N- POWER AND SIGNAL PLAN

1/8" = 1'-0"



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Consulting Electrical Engineers
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San Diego, CA. 92123
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823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.
3355 MISSION AVE. SUITE 234
OCEANSIDE, CALIFORNIA 92054
PHONE 760-754-8191
FAX 760-754-8291

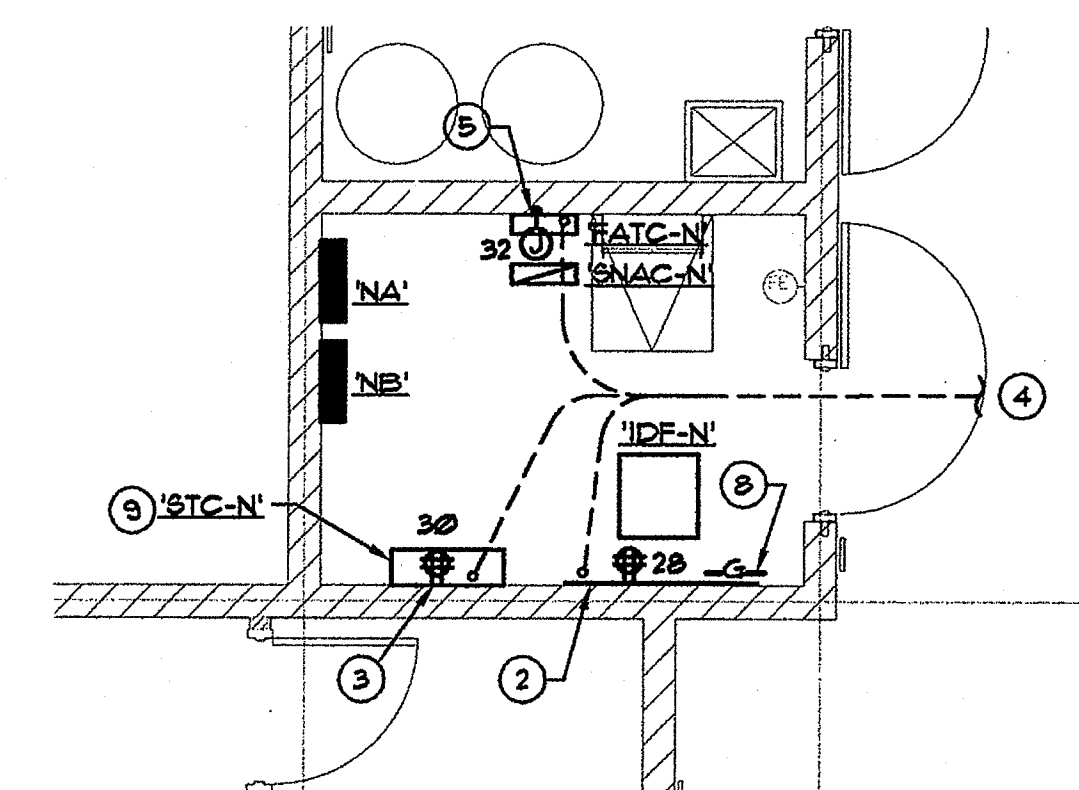
GENERAL NOTES:

1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT OUTLET LOCATION.
2. CONNECT ALL OUTLETS TO PANEL 'NA', UON.
3. ALL SECURITY ROUGH-IN DEVICES SHALL HAVE 3/4" C.O. TO 'STC-N'.
4. ALL PA DEVICES SHALL HAVE 3/4" C. TO 'STC-N'.

SHEET NOTES:

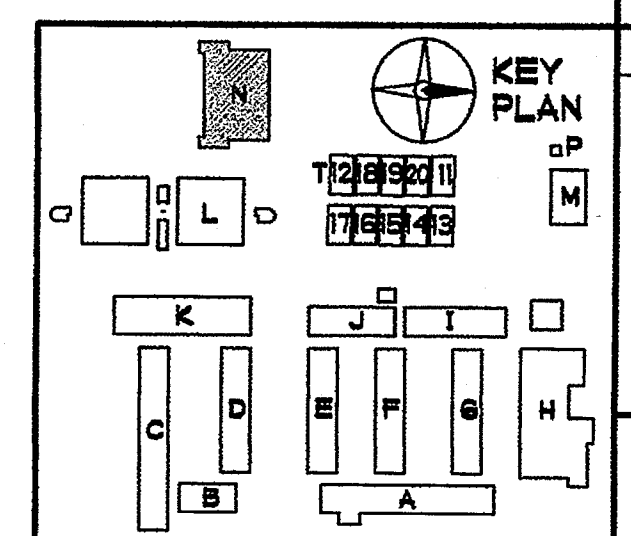
1. PROVIDE JUNCTION BOX FOR HAND DRYERS.
2. PROVIDE 4' x 8' x 3/4" FIRE TREATED PLYWOOD BACKBOARD WITH TWO COATS OF WHITE PAINT SECURED TO WALL FOR VOICE/DATA TERMINATIONS.
3. MOUNT RECEPTACLE OUTLET IN 'STC-N'.
4. SEE SITE PLAN FOR CONTINUATION.
5. JUNCTION BOX AT 48" AFF. CONNECT TO 'SNAC-N' PANEL.
6. 3'-2" C. ABOVE CEILING WITH INSULATED BUSHINGS.
7. 12" WIDE LADDER RACK WALL MOUNTED AT 48"-0" AFF. WITH SECTION SUSPENDED ABOVE 'IDF-N'.
8. COMMUNICATION GROUND BUS PER DETAIL T/E4-2.
9. 30" SQ. x 8" DEEP SIGNAL TERMINAL CABINET WITH HINGED FRONT VENTILATED LOUVER DOOR AND 3/4" THICK FLYWOOD. ROUTE (3) 2" C. TO THE LADDER RACK FOR CABLE ROUTING. TERMINATE CONDUITS ON LADDER RACK WITH INSULATED BUSHINGS.

* All 1/2" stub above ceiling @ this location
1 rough slab on grade

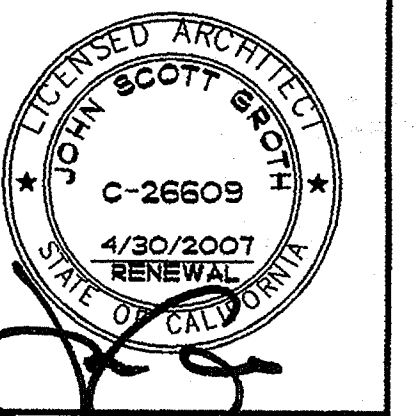


FOR WALL MOUNTED PANEL BOARDS SEE 2/E4-1
ELECTRICAL ROOM #N-19

1/4" = 1'-0"

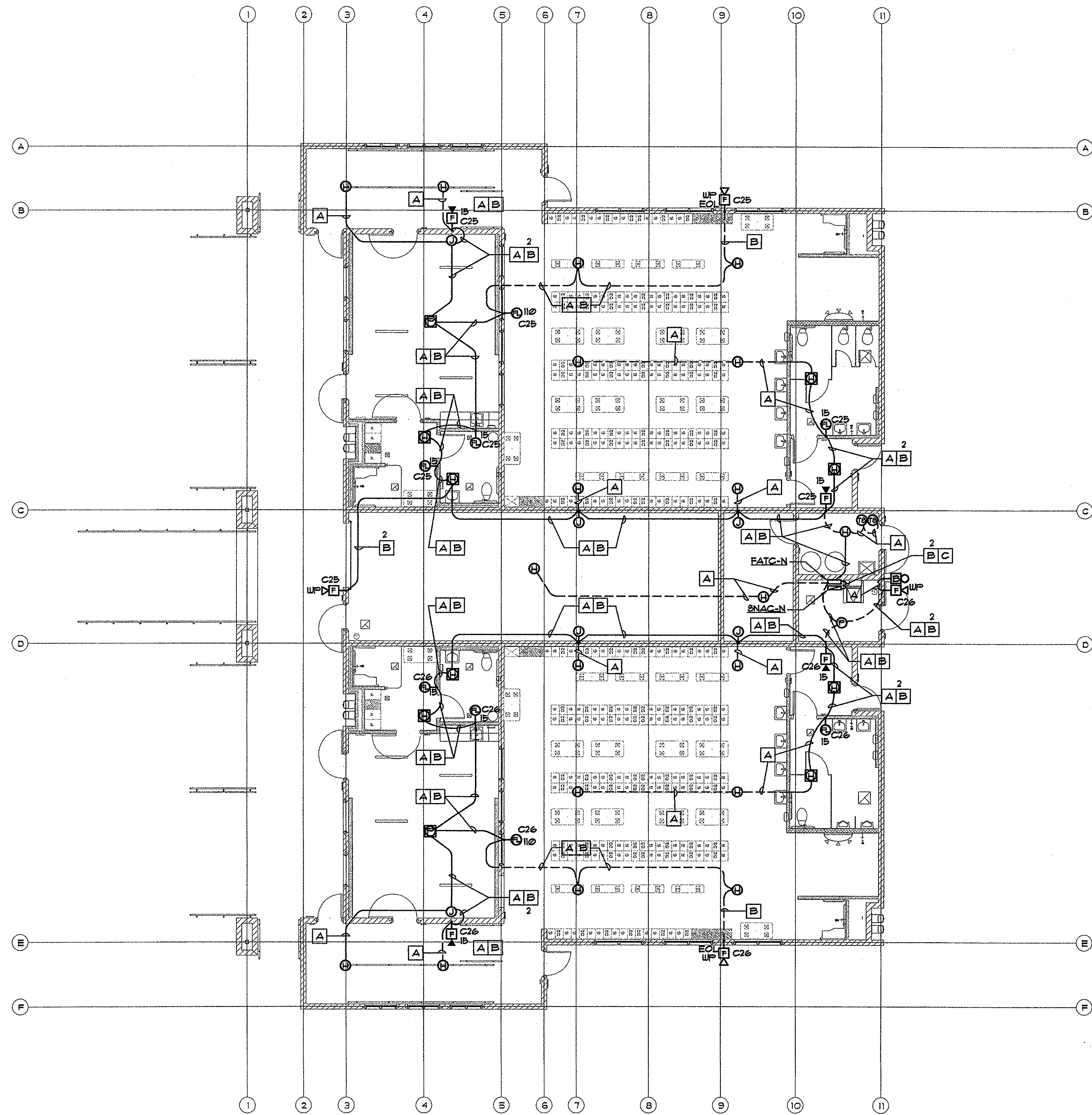


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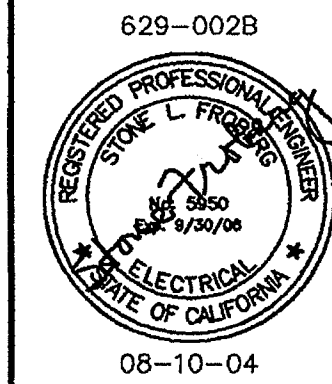
EN2-1

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XREF: SL floor plan.dwg 62928R.dwg 62928-KE1PLAN.dwg SL cing plan.dwg



BUILDING N- FIRE ALARM PLAN

1/8" = 1'-0"



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

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73569-9

DATE

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OCEANSIDE, CA 92054
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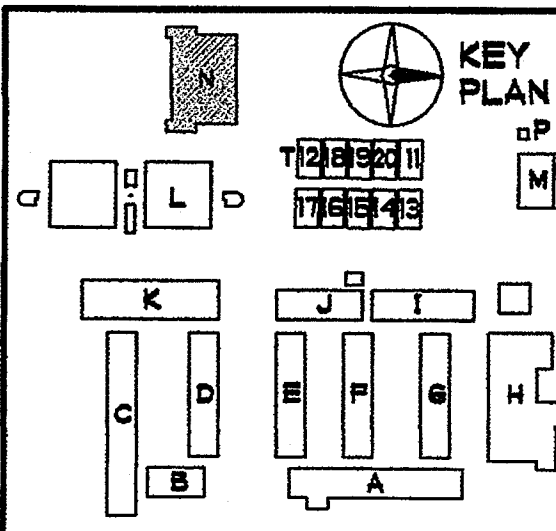
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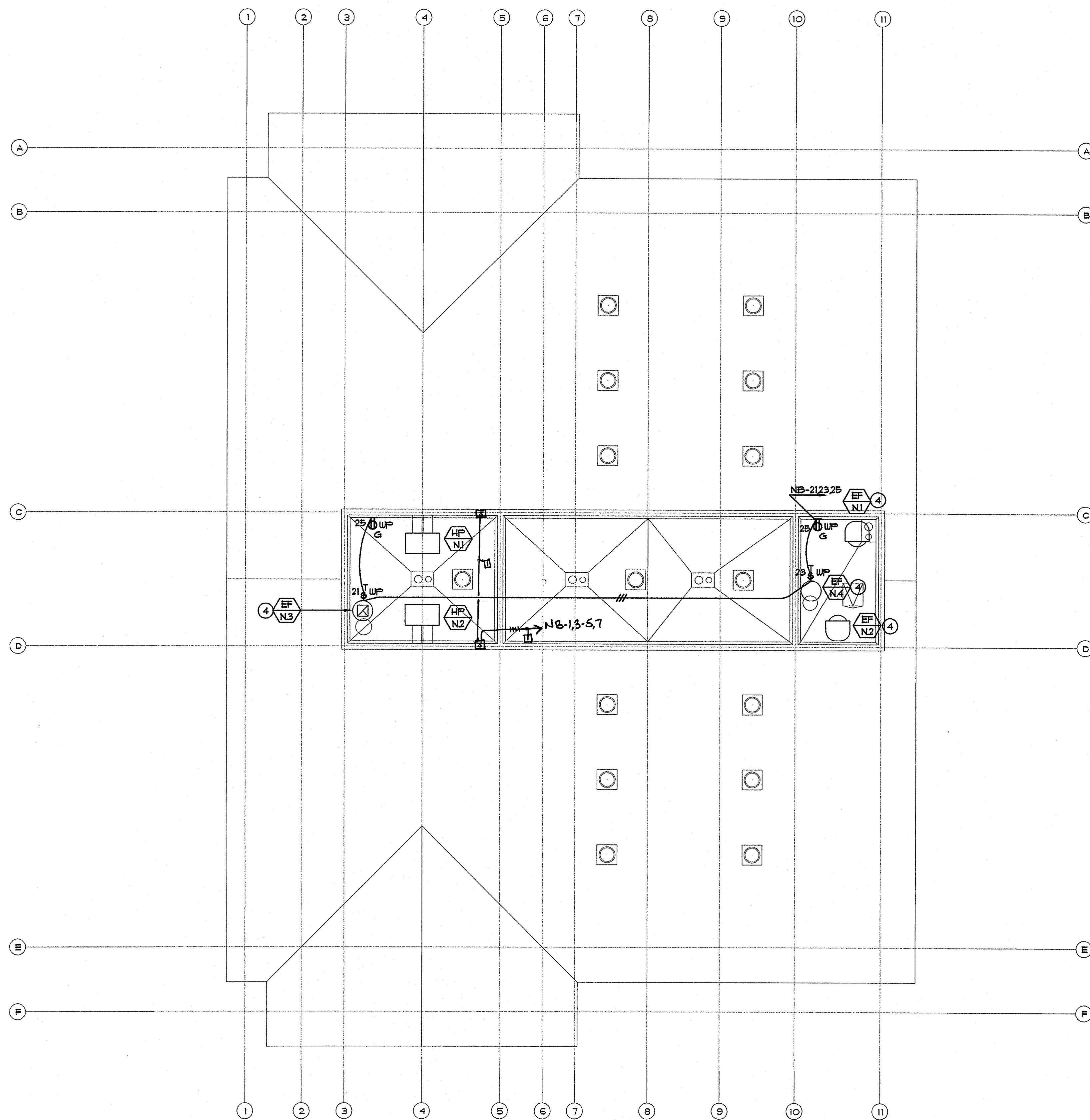
SHEET TITLE

BUILDING N
FIRE ALARM
PLAN

EN3-1

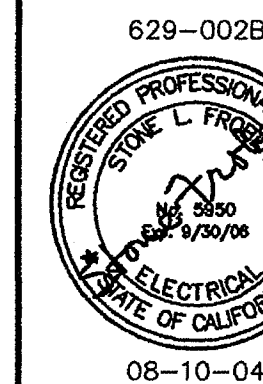


FILE: J:\620-002B\6202EN41.dwg Mar 21, 2005 - 9:41am
XREF: 6202BDR.dwg 6202B-KEYPLAN.dwg SL roof plan.dwg



BUILDING N- ROOF PLAN

1/8" = 1'-0"



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Consulting Electrical Engineers
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NOTES:

- 1 MOUNT ON RIGID CONDUIT RISER(S).
- 2 HEAVY DUTY FUSED DISCONNECT SWITCH.
- 3 FUSE SIZES ARE INDICATED FOR REFERENCE ONLY. VERIFY AND PROVIDE FUSE SIZE PER MANUFACTURER'S NAMEPLATE.
- 4 CONTROLLED VIA TIME CLOCK, SEE 5/M-3.1.

GENERAL NOTES:

1. NO CONDUIT SHALL BE ROUTED EXPOSED ON ROOF.

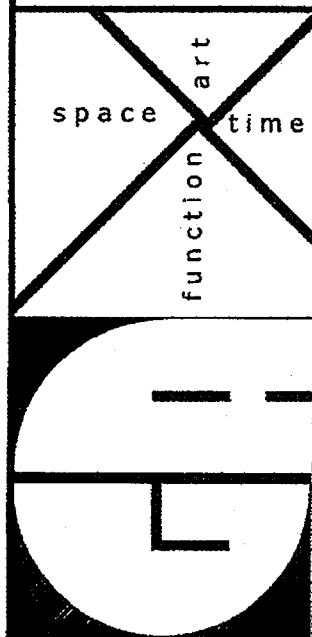
MECHANICAL UNIT - ELECTRICAL EQUIPMENT SCHEDULE

UNIT NO.	FUSED DISCONNECT SWITCH SIZE ①②③	STARTER	CONDUIT AND CONDUCTOR SIZE TO UNIT	BRANCH CIRCUIT
HP-N1	2/20/30 240 VOLT NEMA 3R	-	2"2, M2EG, 3/4"C.	NB-1,3
HP-N2	2/20/30 240 VOLT NEMA 3R	-	2"2, M2EG, 3/4"C.	NB-5,7
EF-N1	3/15/30 240 VOLT NEMA 3R	Ø	3"2, M2EG, 3/4"C.	NB-9,11,13
EF-N2	3/15/30 240 VOLT NEMA 3R	Ø	3"2, M2EG, 3/4"C.	NB-15,17,19

SWITCH RATING (AMPS)
FUSE SIZE (AMPS)
NUMBER OF POLES

III - slab on grade

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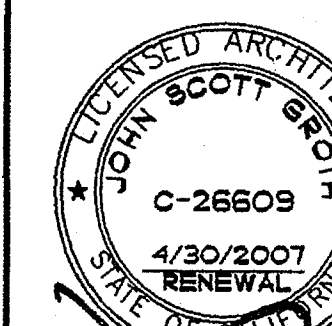
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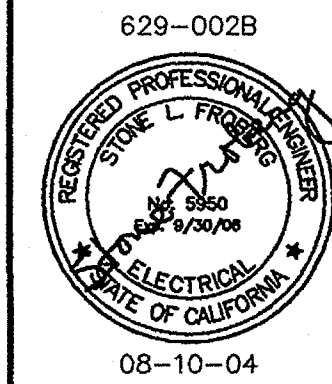
DATE **MAR 28 2005**



SHEET TITLE

BUILDING N
ROOF PLAN

EN4-1



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA 92123
(858) 279-0242 - FAX (858) 279-0711

PLOTTED @ 3/18/05

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PROJECT NOS.
025
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73569-9
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REVISIONS

JEFFERSON M9 NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
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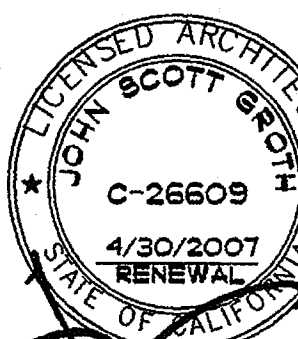


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DATE **MAR 28 2005**



SHEET TITLE

PANEL SCHEDULES

EN5-1

NOTES:

- 1 PROVIDE HANDLE LOCK-ON DEVICE.
- 2 PROVIDE RED CIRCUIT BREAKER.
- 3 SEE DETAIL 1/E4-1 AND 2/E4-1.

PANEL: NB		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 100A		MARK: 1005 ONLY	
LOCATION/UTILITY RM		MOUNTING: SURFACE		A/C RATING:		FEED: TOP X BOTTOM X	
CIRCUIT CODE: Mark or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP'TS		K: KITCHEN	
P: PANEL							
ITEM	CODE	BRG	OKT	A	B	C	OKT
MP - N1	L	20/	1	1266			30/1
SAME AS CIRCUIT ABOVE		L	/2	3	1266		30/1
MP - N2	N	20/	5		1266		30/1
SAME AS CIRCUIT ABOVE		N	/2	7	1266		30/1
EF - N1	N	15/	9		372		30/1
SAME AS CIRCUIT ABOVE		N	/	11	372		30/1
EF - N2	N	15/	15		372		30/1
SAME AS CIRCUIT ABOVE		N	/	17	372		20/1
EF - N3	N	15/1	21		672		20/1
EF - N4	N	15/1	23		696		20/1
R/O ROOF	R	20/1	25	360			20/1
BUSSED SPACE			27				20/1
BUSSED SPACE			28				20/1
BUSSED SPACE			31				20/1
BUSSED SPACE			33				20/1
BUSSED SPACE			35				20/1
SUBFEED "NB"	P	100/	37	6573			20/1
PART OF CIRCUIT ABOVE	P	/	38		6137		20/1
PART OF CIRCUIT ABOVE	P	/3	41		4275		20/1
CONN. VA PHASE A		CONN. VA (CODE N)		28032		DEMAND KVA	
CONN. VA PHASE B		CONN. VA (CODE L)		9337		DEMAND AMPS	
CONN. VA PHASE C		CONN. VA (CODE R)		9940		CONN. AMPS	
TOTAL CONN. VA		44409		0		HIGH PH AMPS/LOL	

PANEL: NA		VOLTAGE: 208 /120V, 3-PH, 4W		BUS SIZE: 115A		MARK: 225H/98 MCB	
LOCATION/UTILITY RM		MOUNTING: SURFACE		A/C RATING:		FEED: TOP X BOTTOM X	
CIRCUIT CODE: Mark or N: NON-CONTINUOUS		L: LONG-CONTINUOUS		R: DEMANDABLE RECEP'TS		K: KITCHEN	
P: PANEL							
ITEM	CODE	BRG	OKT	A	B	C	OKT
LTC. GIRLS DRESSING	L	20/1	1	844			20/1
LTC. GIRLS DRESSING	L	20/1	3		1003		20/1
LTC. GIRLS OFFICE	L	20/1	5		752		20/1
LTC. STORAGE UTILITY, CUSTODIAN	L	20/1	7	844			20/1
LTC. BOYS DRESSING	L	20/1	9		844		20/1
LTC. BOYS DRESSING	L	20/1	11		1003		20/1
EXTERIOR LTC.	L	20/1	13	405			20/1
EXTERIOR LTC. EMERGENCY	L	20/1	15		810		20/1
SPARE		20/1	17		720		20/1
SPARE		20/1	18		540		20/1
SPARE		20/1	21		900		20/1
SPARE		20/1	23		900		20/1
BUSSED SPACE			25		400		20/1
BUSSED SPACE			27		540		20/1
BUSSED SPACE			28		500		20/1
BUSSED SPACE			31		500		20/1
BUSSED SPACE			33				20/1
BUSSED SPACE			35				20/1
BUSSED SPACE			37				20/1
BUSSED SPACE			38				20/1
BUSSED SPACE			41				20/1
CONN. VA PHASE A		CONN. VA (CODE N)		1500		DEMAND KVA	
CONN. VA PHASE B		CONN. VA (CODE L)		6825		DEMAND AMPS	
CONN. VA PHASE C		CONN. VA (CODE R)		8880		CONN. AMPS	
TOTAL CONN. VA		18885		0		HIGH PH AMPS/LOL	

21
22
23
24



Request for Information 034

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575 Soltek Pacific
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222
Oceanside, CA 92054

RFI #:	034	Importance:	High	Date Created:	7/12/2005
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Photocell at Building P		

Specification Section	Reference	Reference Drawings
-----------------------	-----------	--------------------

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Not Sure		Not Sure		Not Sure

Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments
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Sketch Numbers

Author Company	Authored By	Author RFI Number
Soltek Pacific	Matt Caronna	Gould elec. # 13

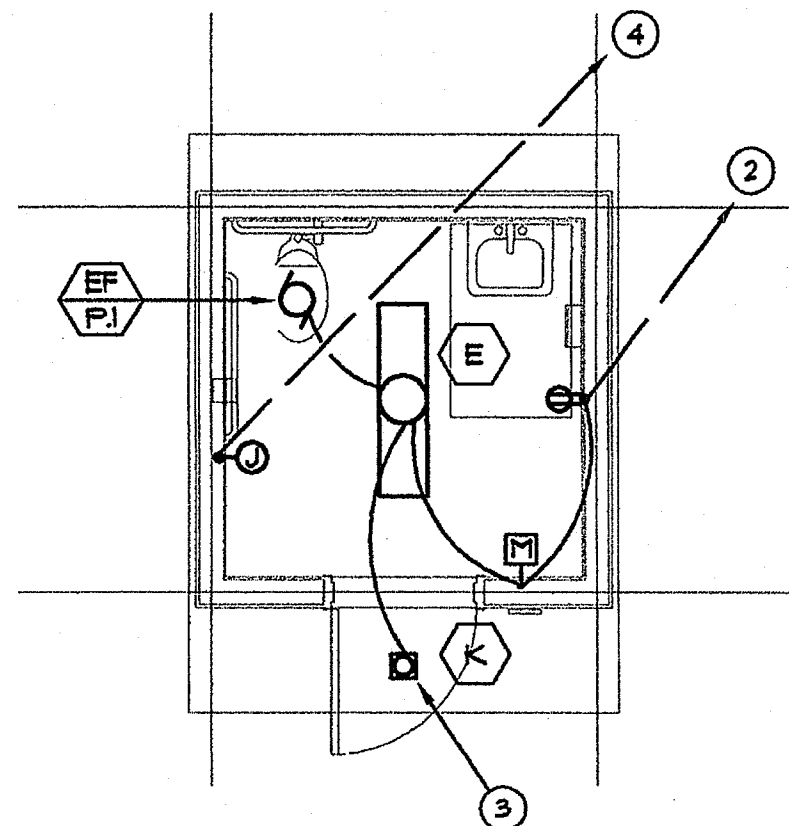
CC: Company Name	Contact Name	Copies	Notes
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Question Date Required: 7/19/2005
Ref. EP1-1 note 3 on the lighting plan. This note calls out for a photocell on the roof. This roof does not have a parapet that would hide the stub up and/or the photocell. For aesthetic reasons, Gould would like to propose putting the photocell on the North facing wall under the roof line. The North wall does not have an overhang. Please advise.

Suggestion

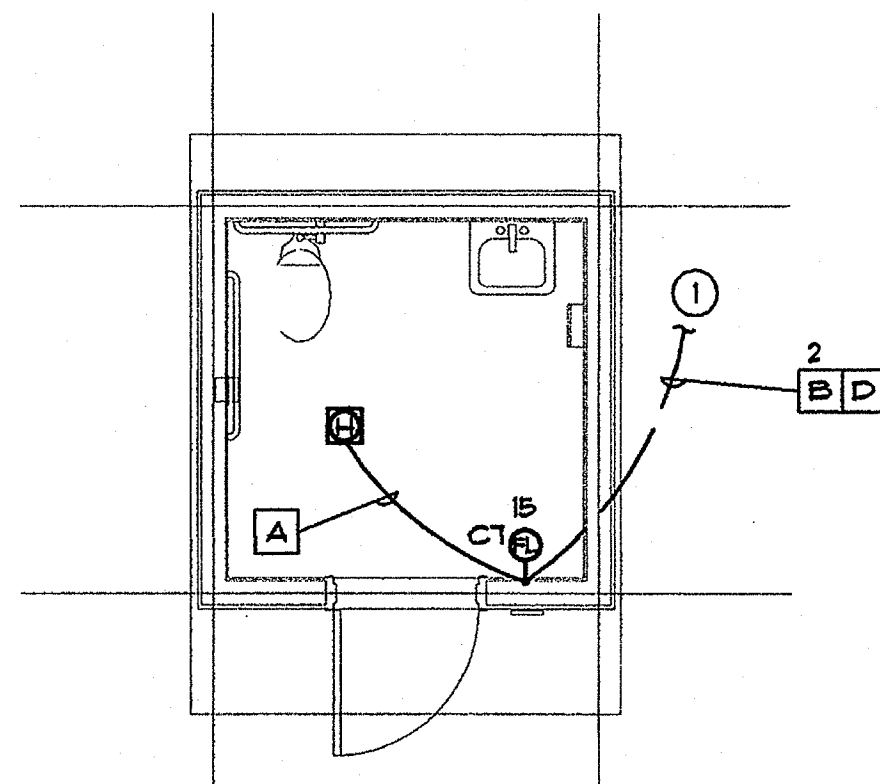
Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Dale Sana	

Answer Date Answered: 7/14/2005
North facing wall is acceptable, and a good location. We will change the location from roof to wall, per this response to rfi.



BUILDING P - LIGHTING AND POWER PLAN

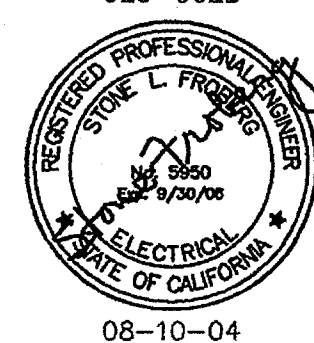
1/4" = 1' - 0"



BUILDING P - FIRE ALARM PLAN

1/4" = 1' - 0"

629-002B



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Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

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FAX 760-754-8291

SHEET NOTES:

- 1" C. TO '8NAC-2' PANEL. SEE SITE PLAN FOR CONTINUATION.
- 2#2, 12EG, 1" C. TO BUILDING 'M' PANEL. PROVIDE 20A/1P CIRCUIT BREAKER TO MATCH EXISTING TYPE AND AIC RATING.
- CONTROLLED VIA PHOTOCELL ON ROOF.
- 1" C.O. TO BUILDING 'M' 'IDF'.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT OUTLET LOCATION.

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space art
function time



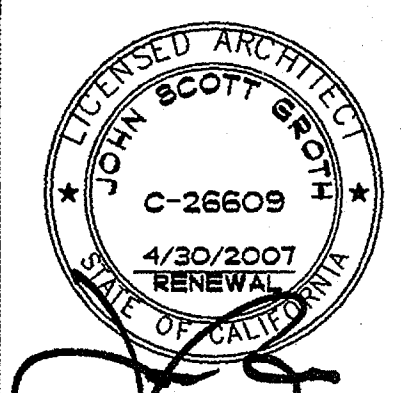
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AC: ps FLS: SS

DATE: MAR 28 2005



SHEET TITLE

BUILDING P
ELECTRICAL PLANS

EP1-1



Request for Information 030

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575 Soltek Pacific
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222
Oceanside, CA 92054

RFI #: 030		Importance: High		Date Created: 7/6/2005	
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Comm. Pipes for T11, T12, T18, T19, T20	Electrical	

Specification Section	Reference	Reference Drawings
-----------------------	-----------	--------------------

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Not Sure		Not Sure		Not Sure

Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments
----------------------	-----------------------	---------------------

Sketch Numbers

Author Company	Author By	Author RFI Number
Soltek Pacific	Matt Caronna	Gould Elec. # 10

Cc: Company Name	Contact Name	Copies	Notes
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Question Date Required: 7/13/2005
Ref. ET1-1 the existing communication underground vault has a dashed line going to building T12 that does not have a note on it. The existing run to T18 has two 2" for communication. The answer to RFI # 28 may determine what is needed here. Does T12 need only two more 2" or four more 2" conduits which will make six that feed that side of rel's.

Suggestion

Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Dale Sana	

Answer Date Answered: 7/8/2005
Dashed line should have had a note #11 on it.
However, per engineer's previous comments:

-Only (4) 2" are required at ea. building.

-Gould will bring (6) 2" total into the grade box, for the district to have as spares if they need to run something additional to the rooms. In this way, they will be close to the building as it is.

If further direction is needed, please advise.



Request for Information 028

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575 Soltek Pacific
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222
Oceanside, CA 92054

RFI #: 028		Importance: High		Date Created: 7/6/2005	
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Communication Conduit at Portable Buildings	Electrical	

Specification Section	Reference	Reference Drawings
-----------------------	-----------	--------------------

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Not Sure		Not Sure		Not Sure

Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments
----------------------	-----------------------	---------------------

Sketch Numbers

Author Company	Author By	Author RFI Number
Soltek Pacific	Matt Caronna	Gould Elec. # 8

Cc: Company Name	Contact Name	Copies	Notes
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Question Date Required: 7/13/2005
Ref. ET1-1 note 11 coming from the communication vault calls out for (6) 2" conduits to the building T17. The existing J box these six will tie into is a 18" x 18" box which has 4 existing (yet abandoned) 2" coming out of the bottom that fill the whole entry space. These buildings in the past were fed only with two 2", then two 2" daisy chaining the rest. We are proposing to eliminate the two 2" spares, which would still leave four 2" feeding the building, due to the space at the bottom of the existing 18" x 18". Please advise.

Suggestion

Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Dale Sana	

Answer Date Answered: 7/8/2005
Engineer's comments:
The spares can terminate in the grade box.
This is close enough that if we need them later, we can get them from there as req'd.

Therefore, Gould can eliminate the two spares and leave (4) 2" feeding the building directly.

Leave the 2 spares at the grade box.



Request for Information 051

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575 Soltek Pacific
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222
Oceanside, CA 92054

RFI #: 051		Importance: Urgent		Date Created: 7/22/2005	
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Data Sleeves Between Relos		

Specification Section	Reference	Reference Drawings
-----------------------	-----------	--------------------

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Not Sure		Not Sure		Not Sure

Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments
----------------------	-----------------------	---------------------

Sketch Numbers

Author Company	Author By	Author RFI Number
Soltek Pacific	Matt Caronna	Gould Elec. # 24

Cc: Company Name	Contact Name	Copies	Notes
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Question Date Required: 7/29/2005
Ref. ET1-1 note 7 calls for (3) 2" liquid tight between all relo's for communication. There is a steel beam (approx. 12" high) around the whole perimeter of the buildings below the roof. Below this beam is the top plate then the ceiling 1" below that. My only way to get above ceiling with these 2" is to drill through the beam. The (3) holes will be 2 1/2" diameter. The beam is not thick so the hole is possible, and we would put 3" between holes. Is this acceptable?

Suggestion

Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Dale Sana	

Answer Date Answered: 7/25/2005
Ref. ET1-1 the beams. These rels are not owned by the District and are temporarily leased only.

2. We do not want an underground installation, as the idea is for temporary for the rels.
Therefore, provide the following:

-Provide 2" conduits attached to the rear of the rels, to connect to the existing signal boxes located on the rear of each building.
Engineer is producing a drawing depicting the revised design, as per the above comments.



Request for Information 019

Detailed, Grouped by each number, with routing info

Jefferson Middle School, New Construction/OceanProject # 575 Soltek Pacific
823 Acacia Street Tel: 760-967-8188 Fax: 760-967-8222
Oceanside, CA 92054

RFI #: 019		Importance: Urgent		Date Created: 6/24/2005	
From	Company	Sent	For	Via	
To	Company	Received	Comments		

Subject	Discipline	Category
Portable Buildings	Electrical	

Specification Section	Reference	Reference Drawings
-----------------------	-----------	--------------------

Cost Impact	Amount	Sched Impact	Days	Dwg Impact
Not Sure		Not Sure		Not Sure

Cost Impact Comments	Sched Impact Comments	Dwg Impact Comments
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Sketch Numbers

Author Company	Author By	Author RFI Number
Soltek Pacific	Matt Caronna	Gould Elec. #5

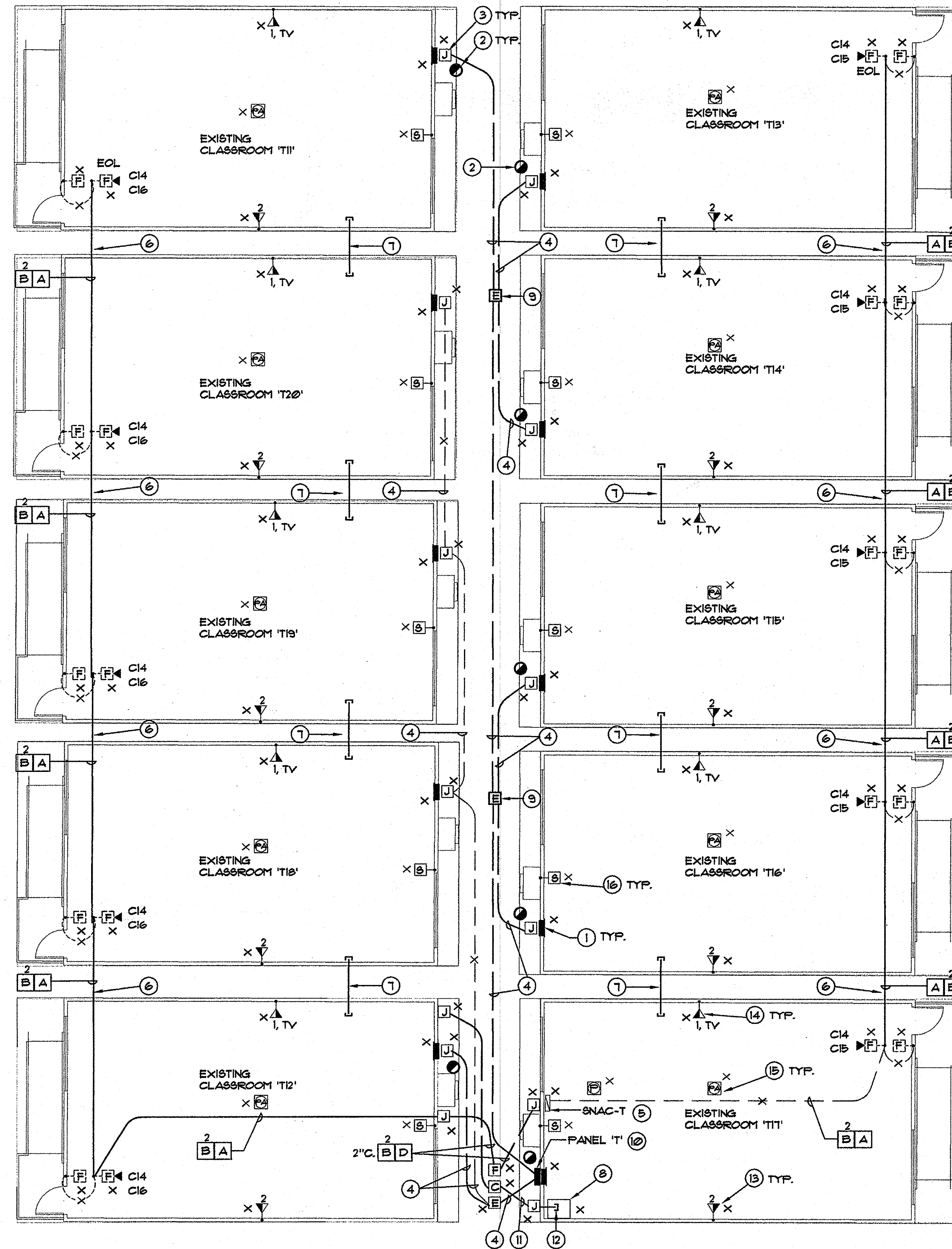
Cc: Company Name	Contact Name	Copies	Notes
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Question Date Required: 7/1/2005
Ref. ET-1.1 the three existing relocatable buildings T-18 - T-20 electrical is to remain un-touched. These buildings are fed underground to the first building T-18 then are surface piped between the other two with PVC on uni-strut. Due to the moving of the seven relocatables and the separation of the two rows we would need to excavate between. We are proposing to run rigid PVC schedule 80 surface mount to match the existing. Please advise if this is acceptable.

Suggestion

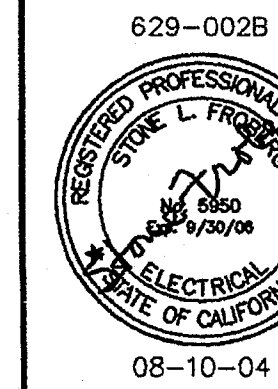
Answer Company	Answered By	Co-Respondent
PinnacleOne/Barnhart, Inc.	Dale Sana	

Answer Date Answered: 6/29/2005
Engineer's comments:
-proposed running of rigid pvc schedule 80 surface mount to match existing is acceptable.



PORTABLE BUILDINGS ELECTRICAL AND FIRE ALARM PLAN

1/8" = 1' - 0"



ILA ZAMMIT ENGINEERING GROUP
Consulting Electrical Engineers
3625 Ruffin Rd., Suite 300
San Diego, CA. 92123
(858) 279-0242 - FAX (858) 279-0711

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758-000

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DATE

REVISIONS

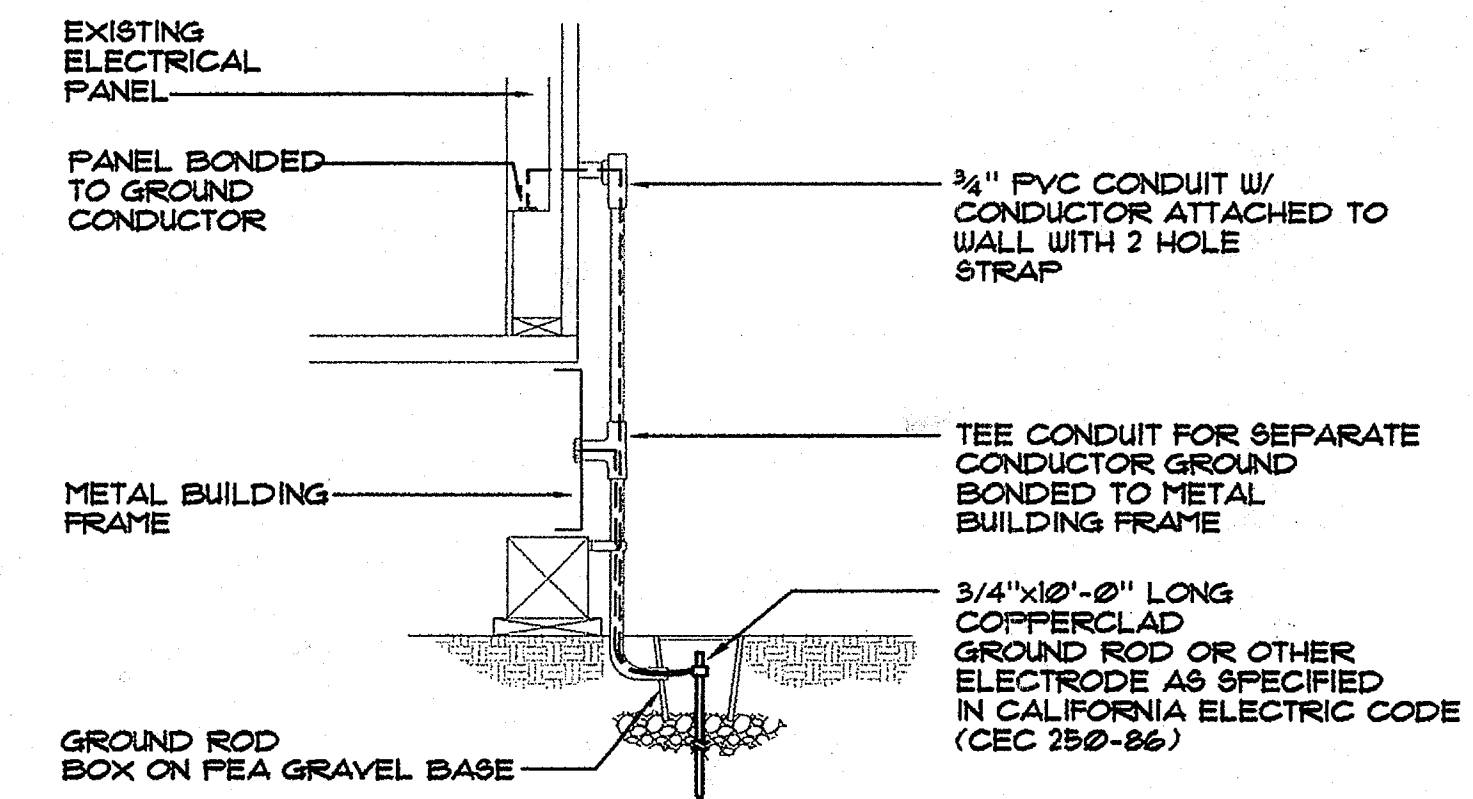
JEFFERSON MS NEW CONSTRUCTION
823 ACACIA STREET
OCEANSIDE, CA 92054
OCEANSIDE UNIFIED S.D.

GROTH ARCHITECTS, INC.
3355 MISSION AVE.
OCEANSIDE, CALIFORNIA 92054

PHONE 760-754-8191
FAX 760-754-8291

SHEET NOTES:

- EXISTING CLASSROOM (RESTROOM) PANEL TO REMAIN.
- PROVIDE ELECTRODE CONNECTIONS TO PANEL AND BUILDING PER GROUNDING DETAIL VET1-1.
- EXISTING JUNCTION BOX TO REMAIN.
- SEE SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- EXISTING SNAC PANEL TO REMAIN.
- PROVIDE LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT BETWEEN BUILDINGS.
- PROVIDE 3-2" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUITS ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHINGS.
- EXISTING 'IDF' AND ELECTRONICS TO REMAIN.
- PROVIDE UNDERGROUND PULLBOX, SEE 3/E4.3.
- PROVIDE LOCKABLE SURFACE MOUNTED, NEMA 3R, 42 POLE 400A PANELBOARD WITH (2) 200A/3P AND (1) 100A/2P CIRCUIT BREAKERS. PROVIDE 'RSC' RISERS TO PANELBOARD. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- PROVIDE THE FOLLOWING CONDUITS:
(2) 2" C. FOR VOICE/DATA
(1) 2" C. FOR FAGING
(1) 2" C. FOR TV
(2) 2" C. SPARE.
- PROVIDE (4) 2" C. STUBBED ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHINGS.
- PROVIDE (2) TYPE 'A' CABLES TO EXISTING 'IDF' CABINET. PROVIDE NEW INSERTS IN EXISTING VOICE/DATA OUTLET.
- PROVIDE (1) TYPE 'A' CABLE AND (1) TYPE 'G' CABLE TO EXISTING 'IDF' CABINET. PROVIDE NEW INSERT AND TV JACK IN EXISTING DATA/TV OUTLET.
- PROVIDE (1) TYPE 'U' CABLE FROM EXISTING INTERIOR SPEAKER TO EXISTING 'IDF' CABINET.
- RECONNECT SECURITY DEVICES. COORDINATE WITH SCHOOL DISTRICT.

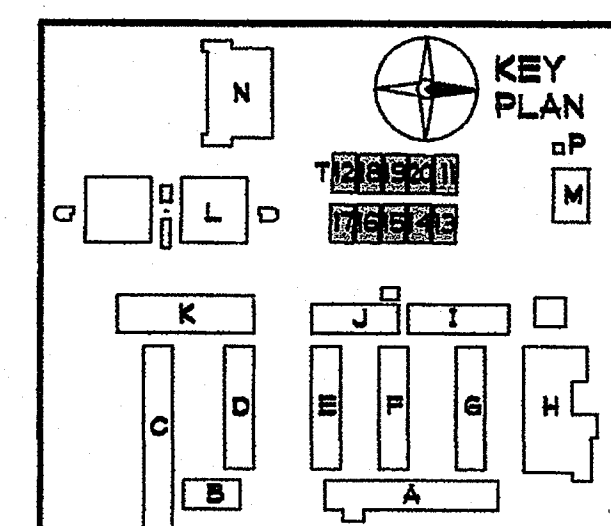


- SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-122.
- BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-50). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (CEC 250-50 & 250-52).
- ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
- CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC 250-56) AS REQUIRED.

GROUNDING DETAIL

NO SCALE

ETI-1



SHEET TITLE
PORTABLE BUILDINGS
ELECTRICAL AND
FIRE ALARM PLANS

ETI-1

KEY MAP
NOT TO SCALE

PROJECT LOCATION

POPLAR RD
WILLOW AVE

CAREY RD

MESA DRIVE

N. CANYON DR

BUSH ST

MISSION

SAN DIEGO ST

I-5 FWY

I-5 FWY

VICINITY MAP
NOT TO SCALE

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GENERAL NOTES

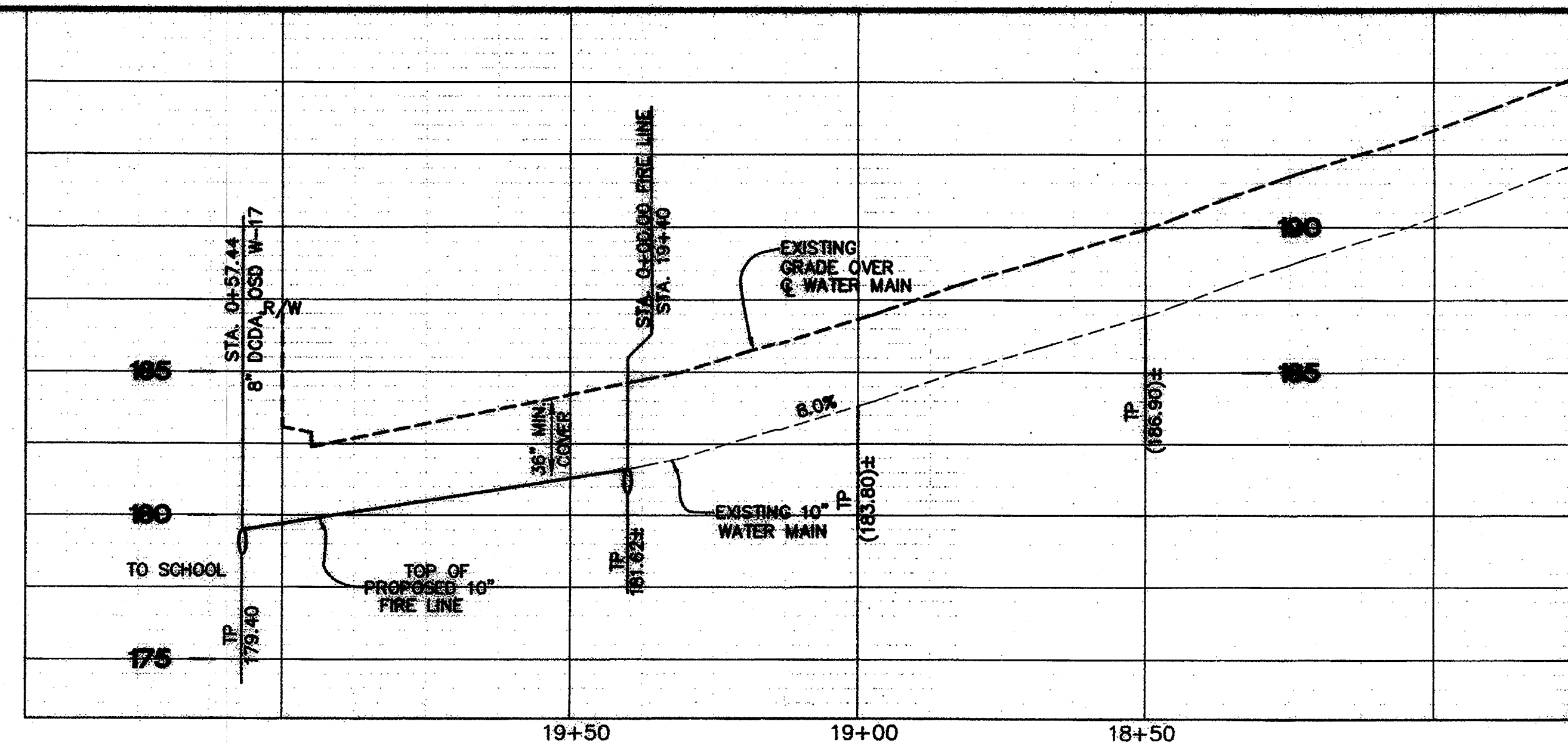
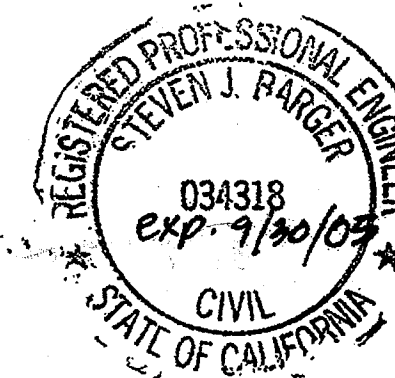
- THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY, PACIFIC TELEPHONE AND TELEGRAPH COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. ALL TELEPHONE SERVICES WITHIN THIS SUBDIVISION ARE UNDERGROUND INSTALLATION. FOR LOCATION OF ELECTRIC CABLE, GAS PIPING AND TELEPHONE CABLES AND APPURTENANCES, CONTACT UNDERGROUND SERVICE ALERT: 1-800-227-2600. ALSO REFER TO CITY STANDARD.
- A PERMIT SHALL BE OBTAINED FROM THE CITY ENGINEERING DEPARTMENT FOR WORK WITHIN EXISTING CITY RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED. (TELEPHONE NUMBER: (760) 966-4750).
- ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS), THE SAN DIEGO COUNTY REGIONAL STANDARD DRAWINGS AND CITY OF OCEANSIDE ENGINEER'S MANUAL.
- PAVEMENT SECTIONS SHOWN, ARE TO BE VERIFIED BY "R" VALUE TESTS (TEST METHOD NO. CALIFORNIA 301) AND PAVEMENT DESIGN REPORT; TO BE SUBMITTED BY SOILS ENGINEER AFTER UNDERGROUND UTILITIES CONSTRUCTION IS COMPLETE, FOR CITY ENGINEER'S APPROVAL.
- ALL METALS PLACED IN THE GROUND SHALL BE ENCASED IN 6" OF NEUTRAL SAND.
- CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS IS REQUIRED PER G-9 AND G-10 (S.D.R.S.D.).
- ALL UNDERGROUND UTILITIES LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS AND SHALL BE MARKED FOR EASY LOCATION. THE ENGINEER OF WORK SHALL CERTIFY ALL IMPROVEMENTS TO WITHIN .1' OF THE DESIGN.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- SOILS REPORTS ON ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY THE SOILS ENGINEER OF RECORD, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH EARTH WORK SPECIFICATIONS AND CITY OF OCEANSIDE SPECIFICATIONS AND GRADING ORDINANCE.
- BLUE FIRE HYDRANT MARKERS SHALL BE PLACED ON THE PAVEMENT PER CITY OF OCEANSIDE STANDARD DRAWING M-13.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS. TRAFFIC CONTROL OPERATIONS SHALL BE BETWEEN 8:00 A.M. AND 3:30 P.M. UNLESS OTHERWISE APPROVED.
- CENTERLINE MONUMENTS SHALL BE INSTALLED AT THE EC AND BC OF ALL CURVES, AT THE CENTERLINE INTERSECTION OF ALL STREETS WHERE MANHOLES ALLOW, AT THE RADIUS POINT OF CONCENTRIC CUL-DE-SACS, AND AT THE ANGLE POINT OF OFFSET CUL-DE-SACS, PER S.D.R.S.D. M-10 AND M-11.
- ALL EXISTING IMPROVEMENTS INCLUDING CURB AND GUTTERS, SIDEWALKS, ASPHALT CONCRETE OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER, INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT, AND CAPPING.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER. HAULING OPERATIONS SHALL BE BETWEEN 8:00 A.M. AND 3:30 P.M. UNLESS OTHERWISE APPROVED.
- STRIPING SHALL BE DONE BY THE CONTRACTOR AT DEVELOPER'S EXPENSE UNLESS OTHERWISE DIRECTED.
- TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BY SANDBLASTING BEFORE ANY NEW APPLICATION.
- REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. ALL STREET SIGNS SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING T-3 AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
- PATCHING OF SIDEWALK IS NOT PERMITTED.
- DAMAGED, GOUGED, BROKEN, OR GRAFFITI-MARKED SECTIONS, OF CURB, GUTTER OR SIDEWALK SHALL BE REMOVED AND REPLACED.
- A MINIMUM REPLACEMENT SECTION TO BE AT LEAST EQUAL TO SCORE MARK TO SCORE MARK (TYPICALLY 5' X 5'). FOR SIDEWALKS EXCEEDING 5' WIDTH, REPLACEMENT IS TO BE FULL WIDTH SQUARED TO THE NEXT SCORE MARK.
- THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR IMPLEMENTING, ADMINISTERING AND MAINTAINING A CONFINED SPACE ENTRY PROGRAM IN ACCORDANCE WITH SECTIONS 5156, 5157, AND 5157 TITLE 8, CALIFORNIA CODE OF REGULATIONS (CCR).
- INDIVIDUAL LOT OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE UTILITY EASEMENTS WITHIN THEIR RESPECTIVE LOT BOUNDARIES.

WATER NOTES

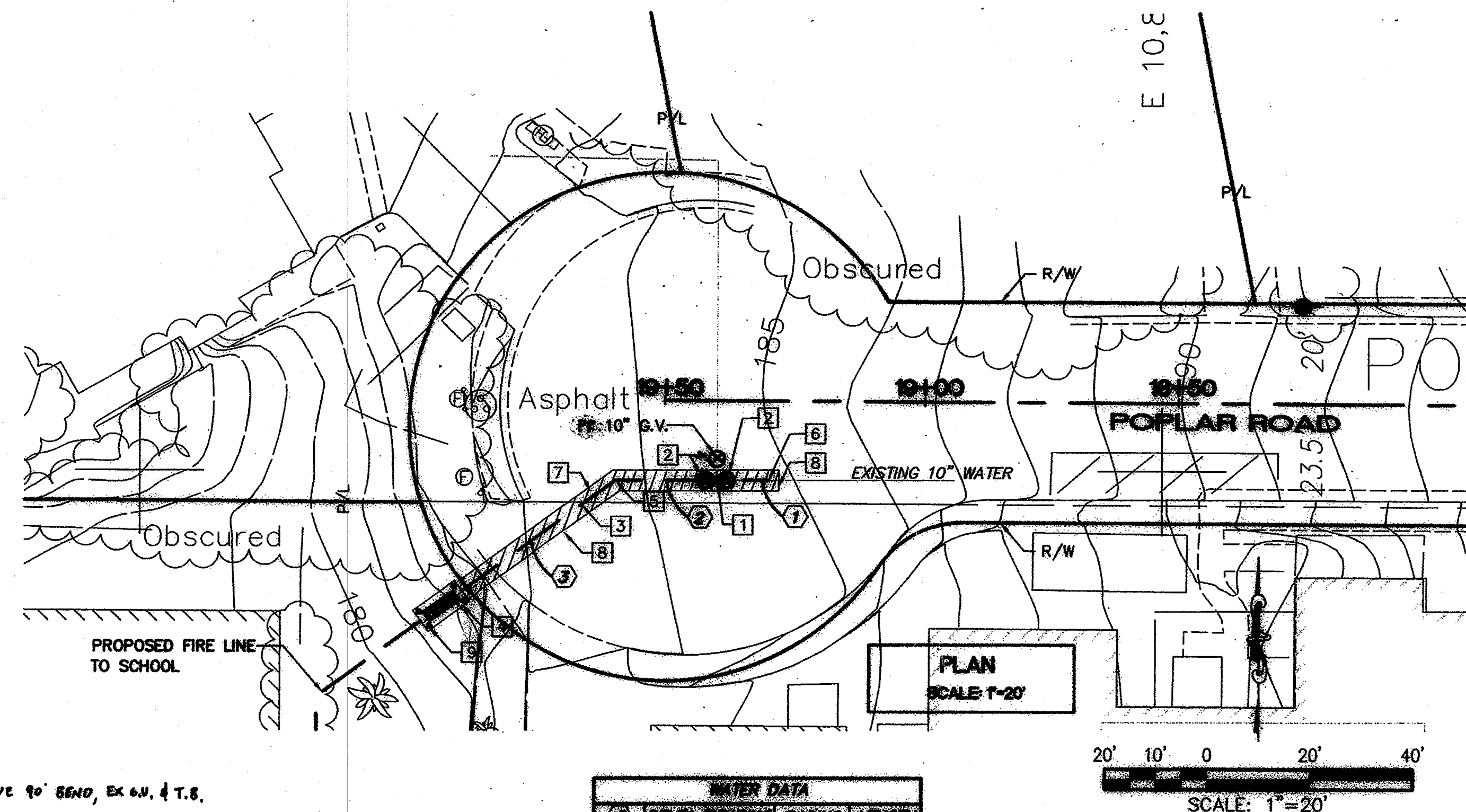
- A "W" SHALL BE INSCRIBED ON CURB DIRECTLY ABOVE ALL WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILTS PLANS AND SHALL BE LOCATED BY A CENTERLINE STATION.
- NO DISRUPTION TO EXISTING WATER DISTRIBUTION MAINS WILL BE ALLOWED ON MONDAYS OR FRIDAYS. ALL SHUTDOWNS FOR SYSTEM TIE-INS WILL BE SCHEDULED BETWEEN TUESDAY, WEDNESDAY AND THURSDAY, AND WILL BE CONFINED TO NORMAL WORKING HOURS.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION WATER PERMIT FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPT.
- THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING EXCAVATION SO THAT EXISTING WATER FACILITIES SHALL BE MARKED IN THE FIELD PRIOR TO START OF CONSTRUCTION. UNDERGROUND SERVICE ALERT NUMBER: (800) 422-4133.
- LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR.
- THE EXISTENCE AND LOCATION OF WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING WATER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES.
- NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER.
- NUTS AND BOLTS ON ALL FLANGE FITTINGS SHALL BE CADMIUM PLATED AND COATED WITH A NON-OXIDE GREASE EXCEPT FOR BURIED SERVICE, WHICH SHALL BE TYPE 316 STAINLESS STEEL. ALL NUTS AND BOLTS WILL BE INSTALLED TO THE PROPER TORQUE REQUIREMENTS OF THE MANUFACTURER. VALVES AND FLANGE FITTINGS SHALL BE COATINGS: ALL VALVES AND THE FLANGED FITTINGS SHALL BE PRIME COATED WITH A BLEND OF PETROLATUM, PLASTICIZER, INERT FILLERS, AND CORROSION INHIBITOR HAVING A PASTE-LIKE CONSISTENCY. THE FLANGE COVERING MATERIAL SHALL BE SYNTHETIC FELT TAPE SATURATED WITH A BLEND OF PETROLATUM, PLASTICIZER AND CORROSION INHIBITORS THAT IS EASILY FORMABLE OVER IRREGULAR SURFACES. PRIMER SHALL BE TRENTON WAX-TAPE OR EQUAL. WAX-TAPE, THE FLANGE COVERING OVER IRREGULAR SURFACES SHALL BE TRENTON #1 WAX-TAPE OR EQUAL. THE OUTER COVERING, THE PRIMED AND WAX-TAPE WRAPPED FLANGE AS A SINGLE SHEET SHALL BE TRENTON POLY-PLY OR EQUAL.
- WATER SERVICE LATERALS ARE NOT PERMITTED IN DRIVEWAY.
- THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL (760) 435-5909.
- BEDDING AND BACKFILL: TRENCH BACKFILL SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING W-21, EXCEPT THAT COMPACTION SHALL BE 95%. THE PIPE SHALL BE LAID ON 6 INCH MINIMUM SAND BED WITH SAND EQUIVALENT OF SE-30 OR MORE. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE SAND OR NATIVE MATERIAL WITH AN S.E. OF 30 OR MORE, FREE FROM STONES, CLODS AND OTHER DELETERIOUS MATERIALS. ALL METALLIC PIPE AND FITTINGS SHALL BE ENCASED WITH 6 INCHES OF NEUTRAL SAND.
- PIPE DEFLECTIONS FOR SHORT RADIUS CURVES AND ANGLE POINTS SHALL NORMALLY BE ACCOMPLISHED BY MEANS OF STANDARD FITTINGS, THE LOCATIONS OF WHICH SHALL BE DETAILED ON THE PLANS.
- ALL WATER USED ON A CONSTRUCTION PROJECT MUST BE PAID FOR AND WILL BE METERED AND PROTECTED BY A REDUCED PRESSURE BACKFLOW ASSEMBLY THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES, PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM UNMETERED FACILITIES. A CONSTRUCTION WATER METER PERMIT MAY BE OBTAINED FROM THE WATER UTILITIES DEPARTMENT.
- QUALITY TEST SHALL INCLUDE BAC-T AND GP WITH A MAXIMUM ODOR OF 1 TON. 2-DAY NOTICE PRIOR TO ANY TESTING. NO TESTS SHALL BE TAKEN ON MONDAYS OR TUESDAYS FOLLOWING A MONDAY HOLIDAY.

CONSTRUCTION NOTES

- INSTALL 10"x 10" FLANGE TEE w/THRUST BLOCK (OSD DWG W-4); REMOVE 90° BEND, EX G.V. & T.S.
- INSTALL 10" FLANGE GATE VALVE (OSD DWG W-6, W-24)
- INSTALL 10" PVC C 900 WATER MAIN CLASS 150
- 8" D.C.D.A. (OSD DWG W-17)
- INSTALL 10"x 45° BEND w/THRUST BLOCK (OSD DWG W-4)
- CONNECT TO EXISTING AC PIPE AT NEAREST JOINT
- TRENCH RESURFACING (OSD M-3A)
- SAWCUT LINE
- PROTECTION POSTS, 4 REQUIRED (SDRS W-16)



POPLAR RD.
10" FIRELINE
PROFILE
SCALE
HORIZ: 1"=20'
VERT: 1"=4'



WATER DATA			
NO.	DELTA BEARING	RADIUS	LENGTH
1	N89°52'13"W	-	10.00'
2	N89°52'13"W	-	20.00'
3	N52°48'10"E	-	38.00'

APPROVED CHANGES:			
NO.	DESCRIPTION	APPROVED	DATE

CORNERSTONE ENGINEERING INC.
281 E. CAMINO REAL, SUITE 202
OCEANSIDE, CA 92054
TEL: (760) 722-7440
FAX: (760) 722-7440
www.cornerstoneeng.com

BENCHMARK:
Description: _____
Location: _____
Record From: _____
Elev: _____
Datum: _____

E-30-04 **T-2**

SHEET 2 CITY OF OCEANSIDE ENGINEERING DEPARTMENT 2 SHEETS

POPLAR DRIVE IMPROVEMENTS
CONSTRUCTION NOTES
PLAN AND PROFILE

APPROVED: *Steven J. Barger* 11/21/05
MARIA DOYLE, R.C.E. 35088, CITY ENGINEER

ENGINEER OF WORK: *Steven J. Barger*
STEVEN J. BARGER, R.C.E. 34318

Checked By: _____
Approved Date: 11/21/05
PLAN NUMBER: W-2157