

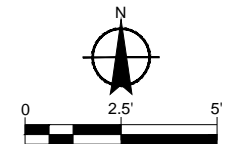
Explanation



Lead-based Paint on Stucco



**Lead-containing Ceramic Wall Ties
(from ground level up to six feet)**





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Project

2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN

MARGARET DUPONT PARK
349 30th Ave. San Francisco, CA 94121
Block No.1403 - Lot No. 007

BID SET

Consultant

No.	Date	Revisions

Section Head SH *[Signature]*
Proj. Mgr. MY
Proj. Arch. EC
Drawn EB
Date 08/2012
Phase



Drawing Title

DRAWING INDEX
NOTES & ABBREVIATIONS

Sheet No.

L-0.1

Scale N/A

Job No.

3092V-2

GENERAL NOTES

ALL WORK SHALL BE COMPLETED IN A THOROUGH AND WORKMANLIKE MANNER.

ALL WORK TO BE PERFORMED SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT.

PROTECT ALL UTILITIES, IMPROVEMENTS AND STRUCTURES AND RESTORE TO NEW CONDITION AT NO ADDITIONAL COST TO THE CITY IF DAMAGED DURING THE COURSE OF WORK.

COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND REPORT CONFLICTS OR INCONGRUITIES BETWEEN NEW IMPROVEMENTS AND/OR EXISTING FACILITIES TO THE CITY REPRESENTATIVE IMMEDIATELY.

THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND INSTALLATION OF ALL PLUMBING AND ELECTRICAL ITEMS TO BE INSTALLED AS A PART OF THIS WORK.

CLEAR AND REMOVE ALL ORGANIC MATTER, DEBRIS AND RUBBISH FROM WITHIN THE LIMIT OF WORK. CONTRACTOR SHALL DISPOSE OF SAID MATERIAL IN A LEGAL MANNER AS HIS PROPERTY.

IN ADDITION TO THESE DRAWINGS, REFER TO CCSF STANDARD SPECIFICATIONS.

DEMOLITION NOTES

CONTRACTOR SHALL PROVIDE PROTECTION AND REGULAR IRRIGATION WATER FOR ALL EXISTING PLANT MATERIAL TO REMAIN FOR THE ENTIRE DURATION OF THE PROJECT.

PROTECT ALL EXISTING TREES AND OTHER SITE ELEMENTS DESIGNATED TO REMAIN.

HAND EXCAVATE AROUND DRIP LINE OF TREES; CONTACT RECREATION PARK URBAN FORESTRY (415) 753-7041 TO ASSESS TREE PRIOR TO CUTTING ANY ROOTS OVER 1" DIA.

SAWCUT (E) PAVING AT CONTROL JOINTS TO FULL DEPTH IN A STRAIGHT, PLUMB AND CLEAN MANNER.

PROVIDE CONSTRUCTION FENCING AT ALL PROPERTY LINES TO PREVENT PUBLIC ACCESS THROUGHOUT CONSTRUCTION PERIOD. SEE SPEC FOR ADDITIONAL INFORMATION.

ALL MATERIALS NOTED TO BE DEMOLISHED AND REMOVED SHALL BE DISPOSED OF IN A LEGAL MANNER AS CONTRACTOR'S PROPERTY.

LAYOUT NOTES

VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CITY REPRESENTATIVE PRIOR TO PROCEEDING.

WRITTEN DIMENSIONS ON DRAWINGS SUPERSEDE SCALE DIMENSIONS.

ALL DIMENSIONS ARE TO BE MEASURED HORIZONTALLY.

VERIFY LOCATION AND ELEVATIONS OF UTILITY VAULTS AND OTHER COVERS AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY REPRESENTATIVE.

PLACE EXPANSION JOINTS WHERE ALL HORIZONTAL PAVING ABUTS A VERTICAL SURFACE AND AS SHOWN ON PLANS. JOINTS SHALL BE 3/8" PRE-MOLDED ASPHALTIC FIBER MATERIAL.

THE CONTRACTOR SHALL STAKE ALL PAVED AREAS AND FOOTINGS FOR REVIEW BY THE CITY REPRESENTATIVE BEFORE FINAL CONSTRUCTION.

GRADING NOTES

VERIFY ALL GRADES IN THE FIELD BEFORE PROCEEDING WITH WORK, INCLUDING EXISTING IMPROVEMENTS; LOCATIONS AND ELEVATIONS OF AREA DRAINS.

EXISTING GRADES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ALL DISCREPANCIES SHALL BE REPORTED TO THE CITY REPRESENTATIVE IMMEDIATELY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE IN ALL PAVING AND PLANTING AREAS. ALL GROUND SURFACES SHALL BE FINISHED TO A SMOOTH AND CONTINUOUS GRADE, DRAINING PROPERLY AND FREE OF STANDING WATER.

PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADES IN PLANTING AREAS. WHERE NEW PAVEMENT ABUTS NEW PAVEMENT, FINISH GRADES SHALL BE FLUSH, UNLESS OTHERWISE NOTED. EASE TOP AND TOE OF ALL SLOPES TO PROVIDE SMOOTH TRANSACTIONS BETWEEN GROUND PLANES.

THE CITY REPRESENTATIVE RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FINISHED GRADES AS THE WORK PROGRESSES.

ELEVATIONS ARE BASED ON CITY AND COUNTY OF SAN FRANCISCO DATUM, UNLESS OTHERWISE NOTED.

PLANTING NOTES

ALL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED.

SEE STANDARD SPECIFICATIONS, SECTION 1009 "PLANTING", FOR RESTORATION OF EXISTING LANDSCAPE.

SITE METAL WORK NOTES

SUBMIT SHOP DRAWINGS FOR ALL METAL WORK.

ALL MEMBERS TO BE STRUCTURAL STEEL GALVANIZED SIZE AND TYPE AS INDICATED ON DETAIL DRAWINGS.

SHOP ASSEMBLY, WITH FULL DEPTH WELDS, TYPE "FILLET WELD" CONTINUOUS, GRIND SMOOTH.

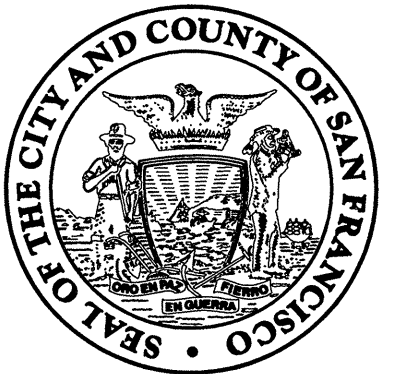
HOT DIP GALVANIZE ALL MEMBERS PER SPECIFICATIONS.

ABBREVIATIONS

CCSF CITY & COUNTY OF SAN FRANCISCO
C, CL CENTER LINE
CB CATCH BASIN
CLR. CLEAR
CONC. CONCRETE
CONT. CONTINUOUS
C.J. CONTROL JOINT
DIA., Ø DIAMETER
DWG DRAWING
(E) EXISTING
EA EACH
E.J. EXPANSION JOINT
EQ EQUAL
F.G. FINISH GRADE
F.L. FLOW LINE
FTG. FOOTING
GALV. GALVANIZED
eJT. JOINT
L.O.W. LIMIT OF WORK
MAX. MAXIMUM
MIN. MINIMUM
MH MANHOLE
(N) NEW
N.I.C. NOT IN CONTRACT
NO., # NUMBER
N.T.S. NOT TO SCALE
NKE NO KNOWN EQUAL
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
P.A. PLANTING AREA
R RADIUS
REQ'D REQUIRED
REP. REPRESENTATIVE, CITY
SD STORM DRAIN
SFDPW SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS
SIM. SIMILAR
S.J. SCORE JOINT
SPECS SPECIFICATIONS
ST. STREET
STR. STRUCTURAL
SP STANDARD PLAN
SYMB. SYMBOL
TYP. TYPICAL
U.O.N. UNLESS OTHERWISE NOTED
W/ WITH
@ AT
⌒ FLUSH OR ALIGNED

DRAWING INDEX

L-0.1 DRAWING INDEX, NOTES & ABBREVIATIONS
L-1.0 EXISTING CONDITIONS AND DEMOLITION PLAN
L-1.1 ACCESSIBILITY PLAN
L-2.0 LAYOUT PLAN
L-3.0 GRADING PLAN
L-4.0 PLANTING PLAN
L-5.0 to L-5.3 CONSTRUCTION DETAILS



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Drawn EB
Date 08/2012
Phase



Drawing Title

**EXISTING CONDITIONS
AND DEMOLITION PLAN**

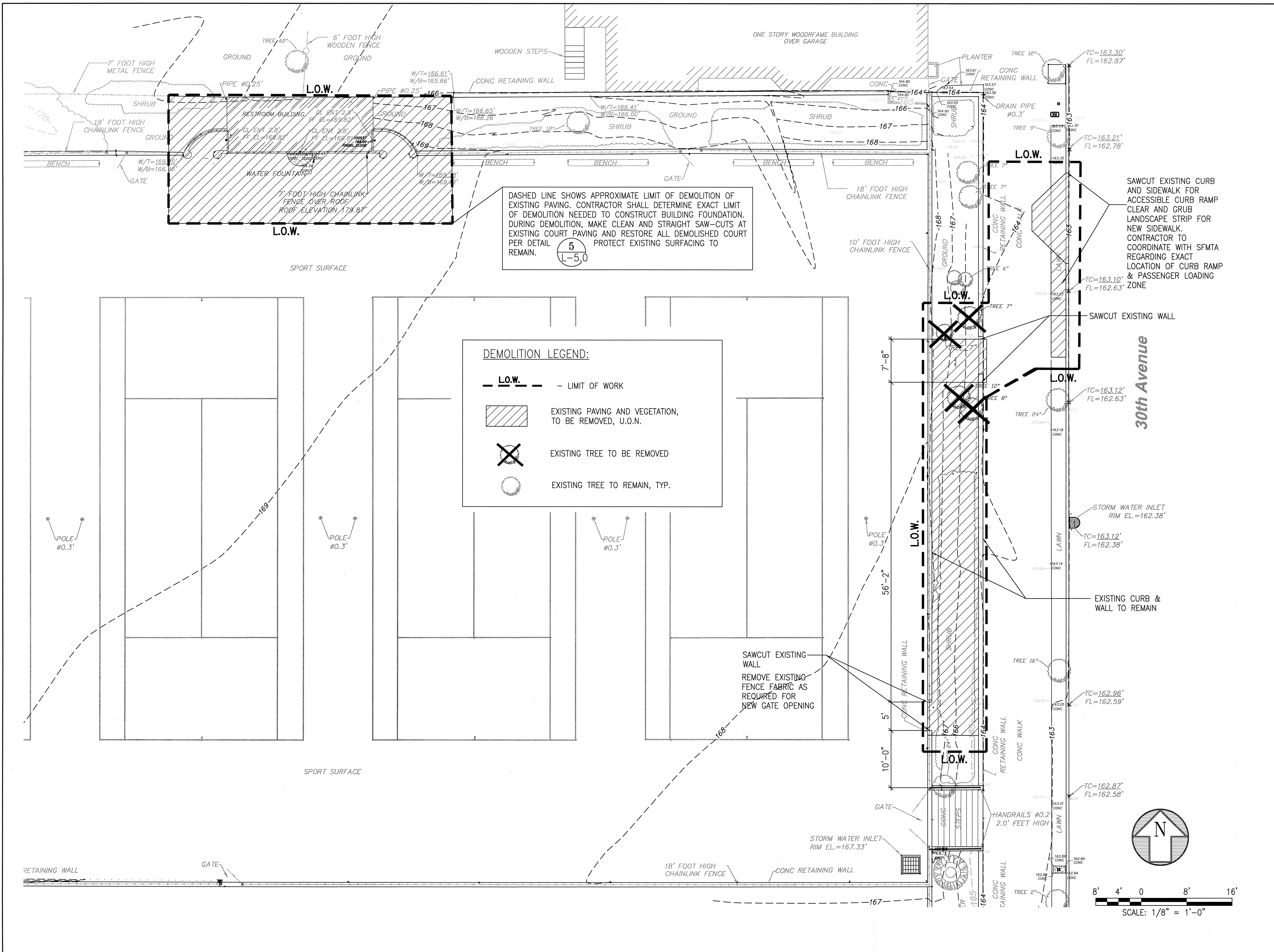
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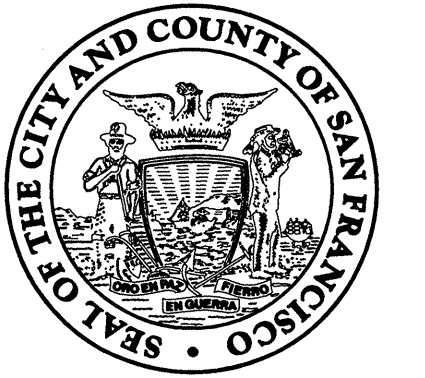
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Scale AS NOTED

Job No.

3092V-2





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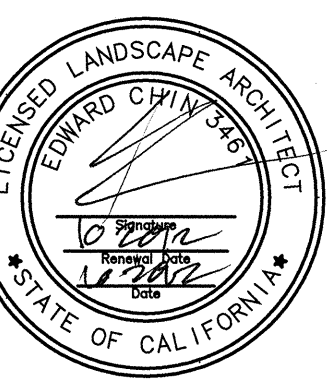
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Drawn
Date
Phase



Drawing Title

ACCESSIBILITY PLAN

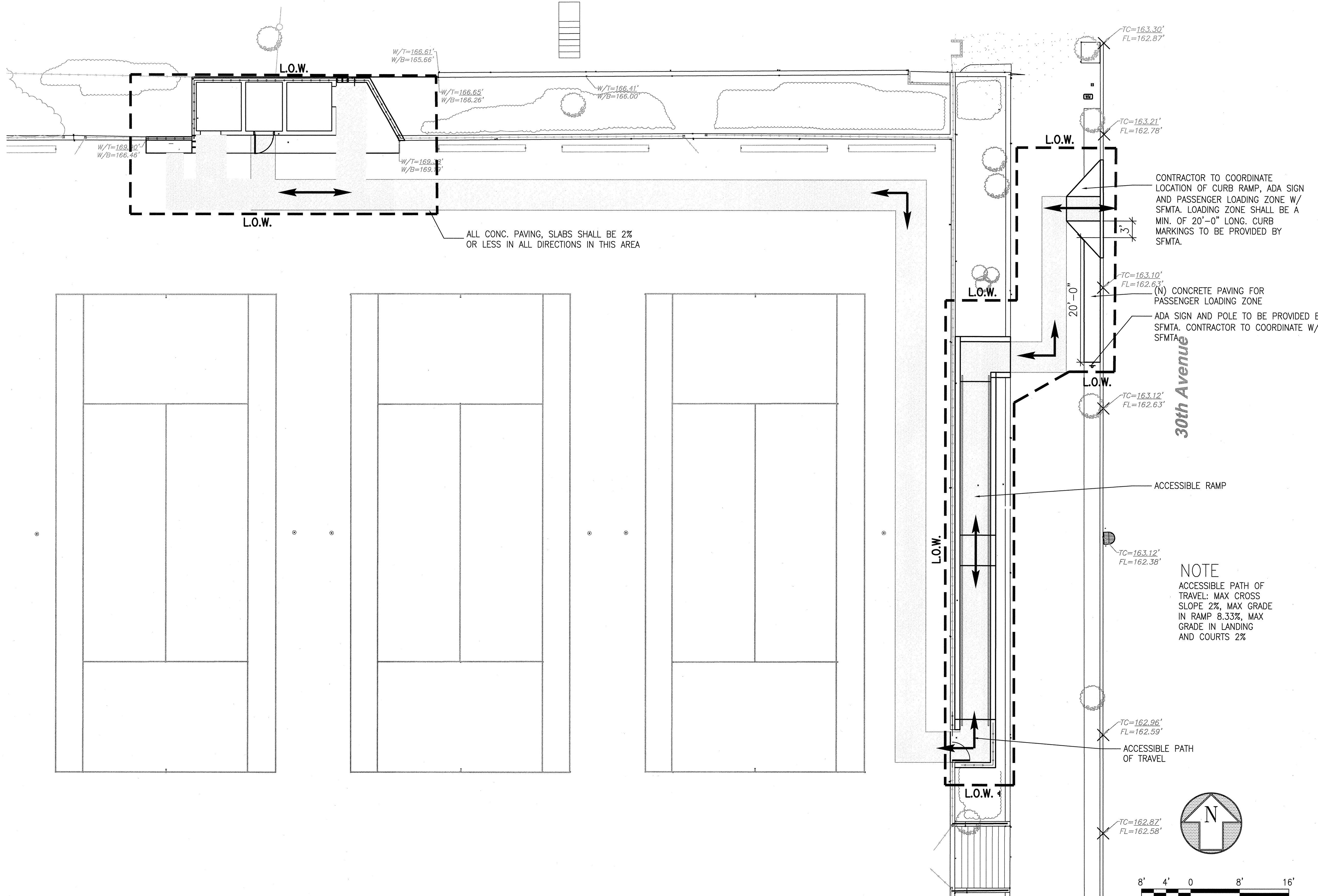
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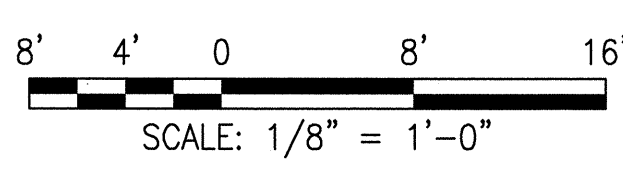
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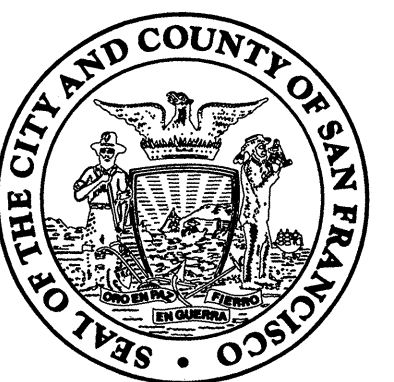
3092V-2



ALL CONC. PAVING, SLABS SHALL BE 2% OR LESS IN ALL DIRECTIONS IN THIS AREA

NOTE
ACCESSIBLE PATH OF TRAVEL: MAX CROSS SLOPE 2%, MAX GRADE IN RAMP 8.33%, MAX GRADE IN LANDING AND COURTS 2%





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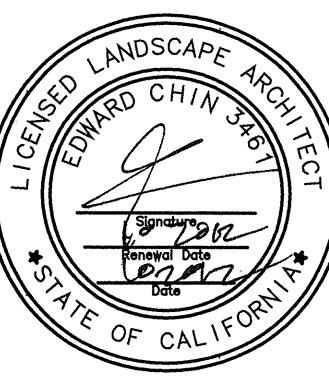
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Date	08/2012
Phase	



Drawing Title

LAYOUT PLAN

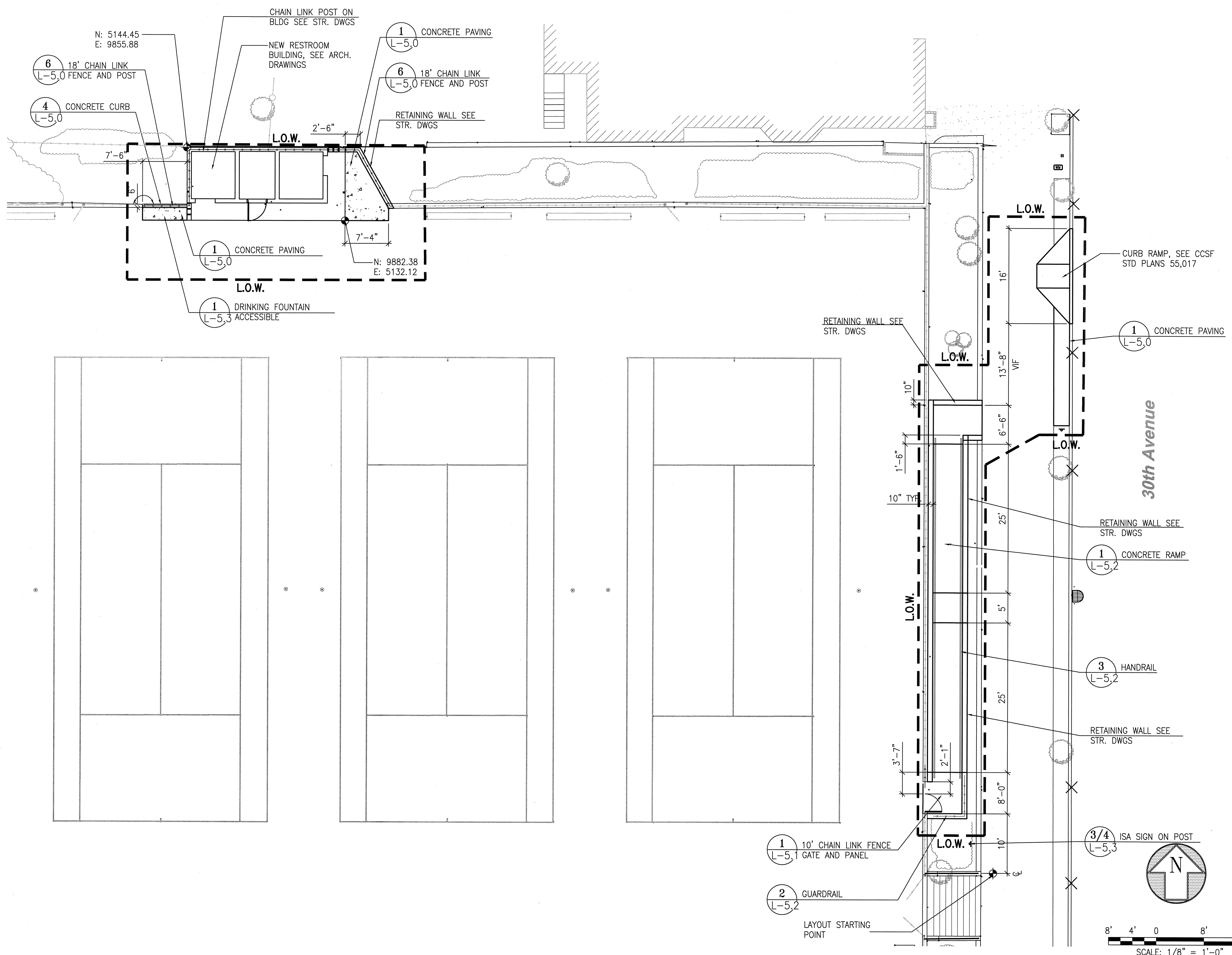
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Proj. Mgr.	MY
Proj. Arch.	EC
Drawn	EB
Date	08/2012
Phase	



Drawing Title

GRADING PLAN

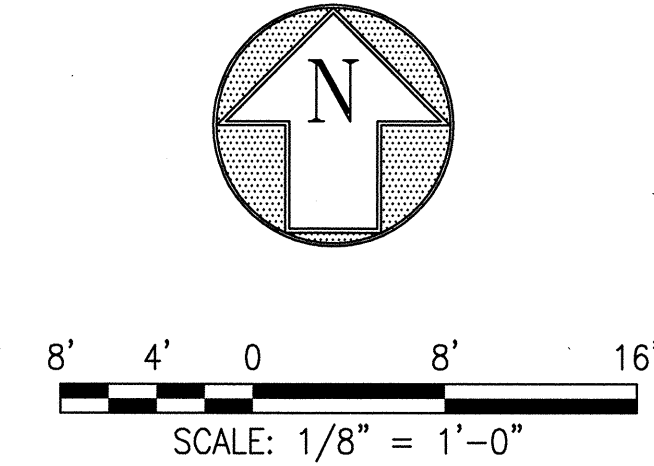
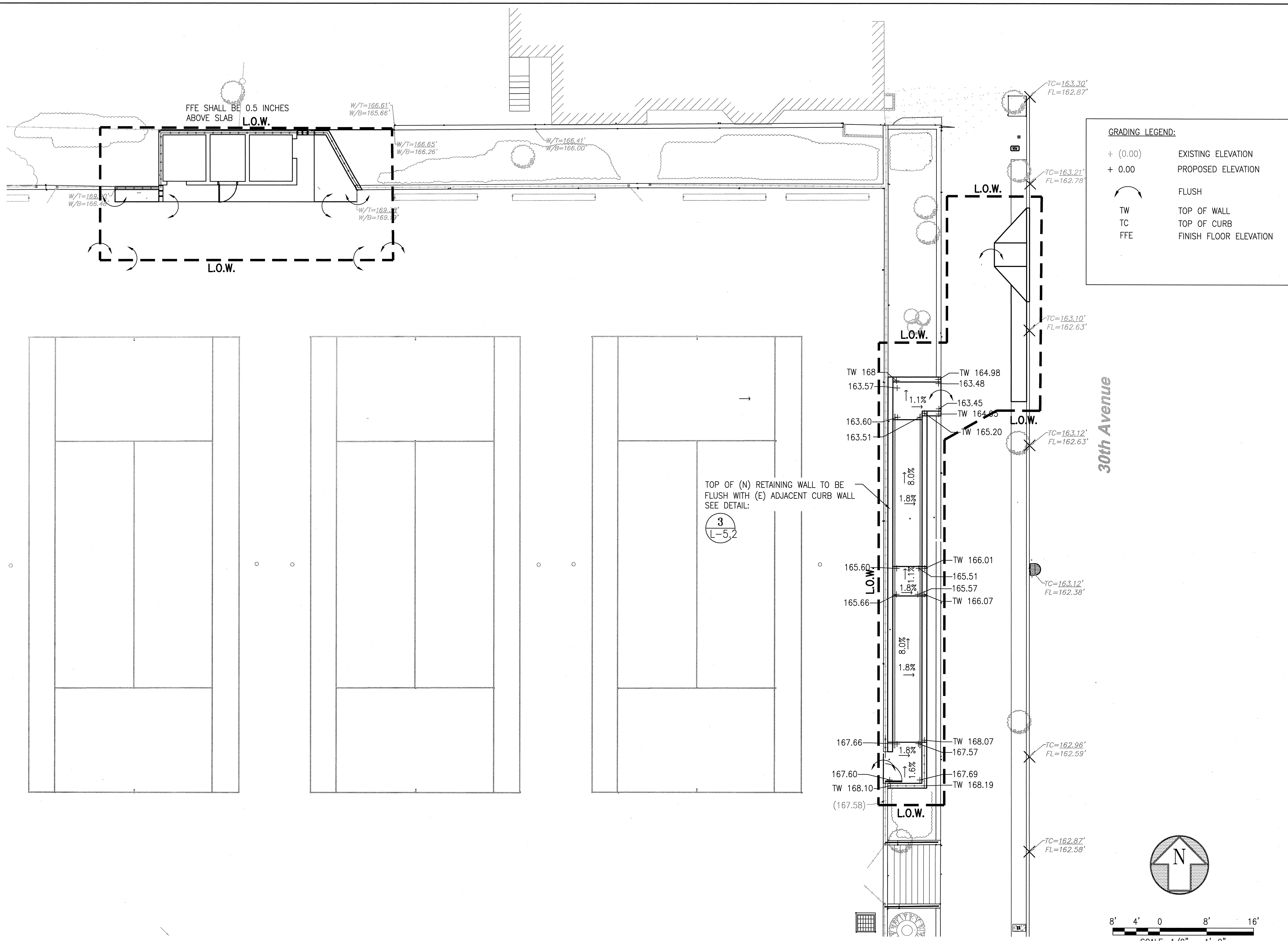
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Job No.

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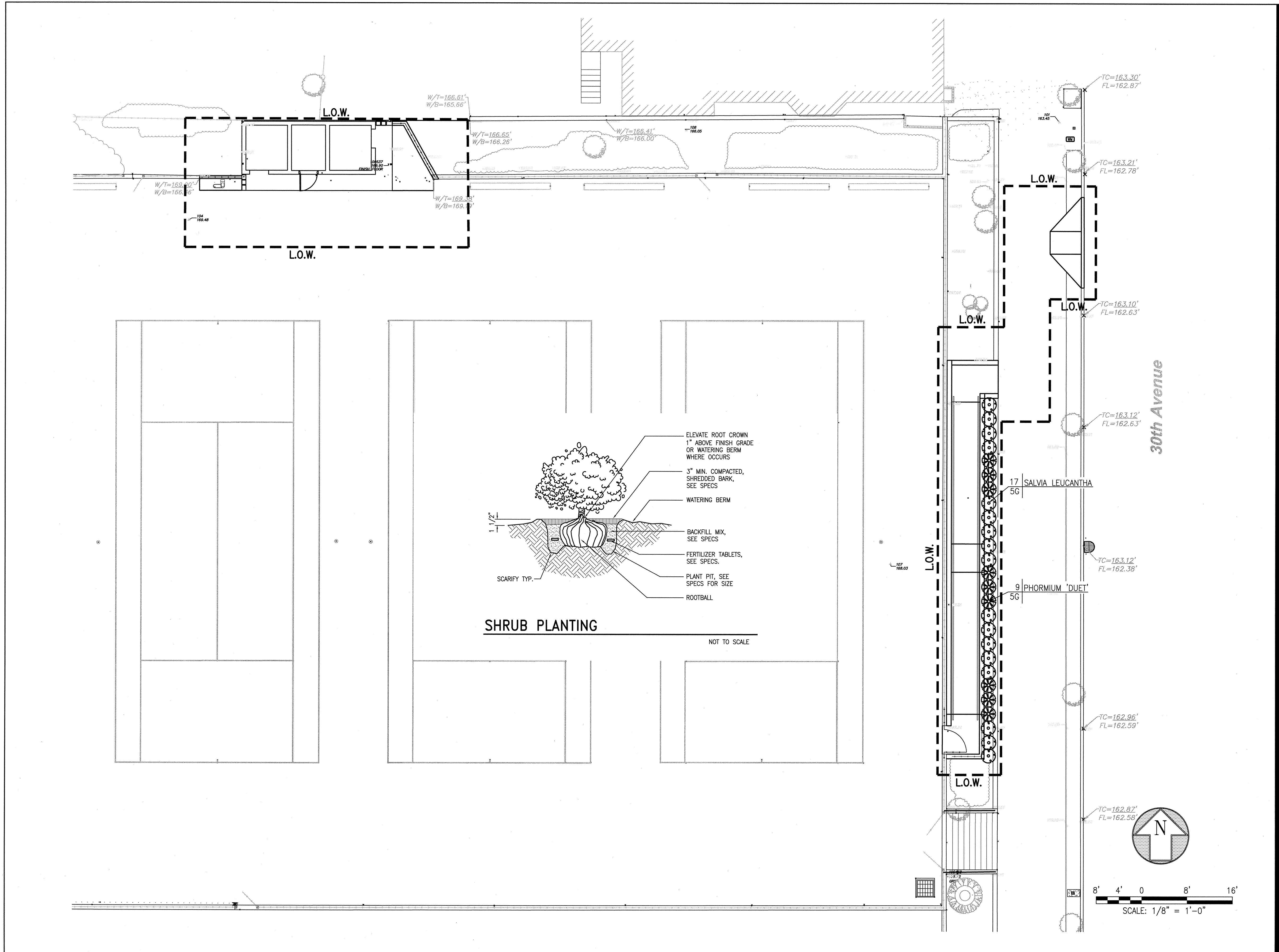
PLANTING PLAN

Sheet No.

L-4.0

Scale AS NOTED

Job No. 3092V-2





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Phase		



Drawing Title

CONSTRUCTION DETAILS

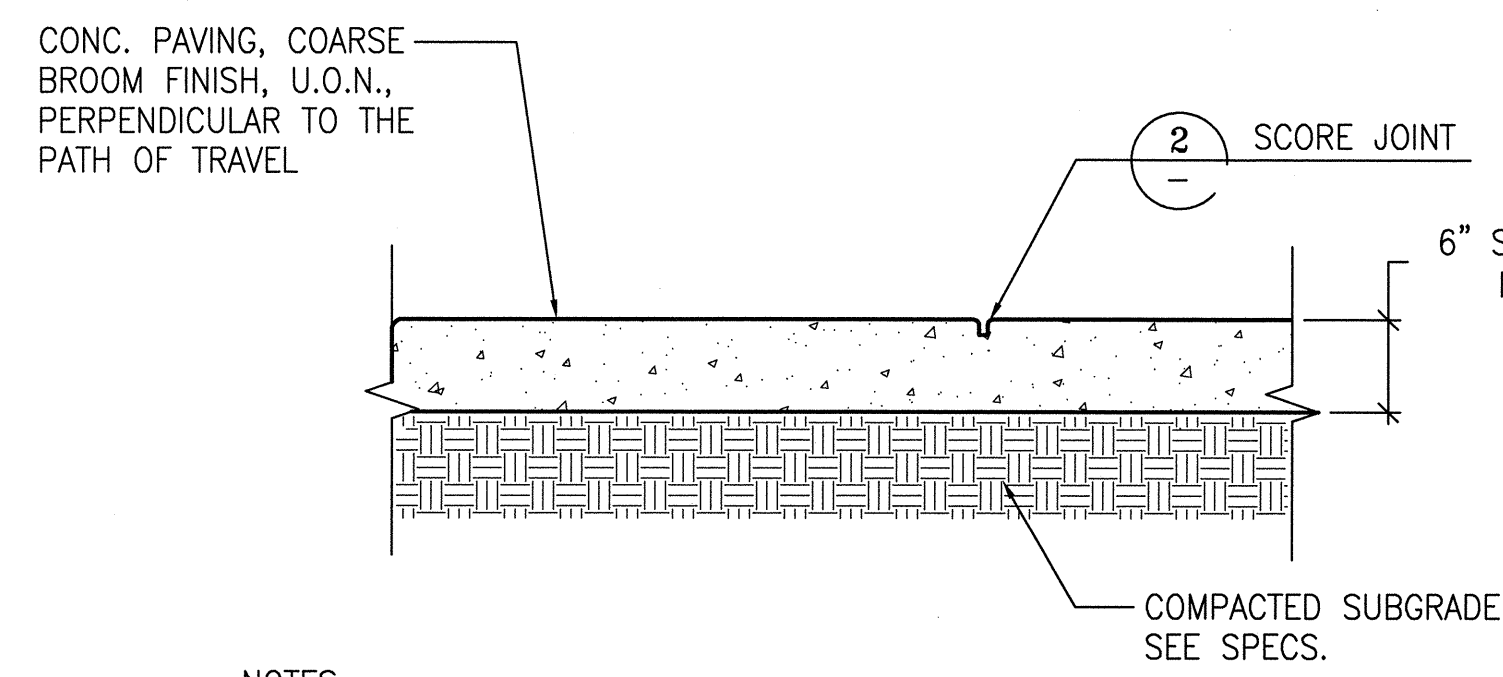
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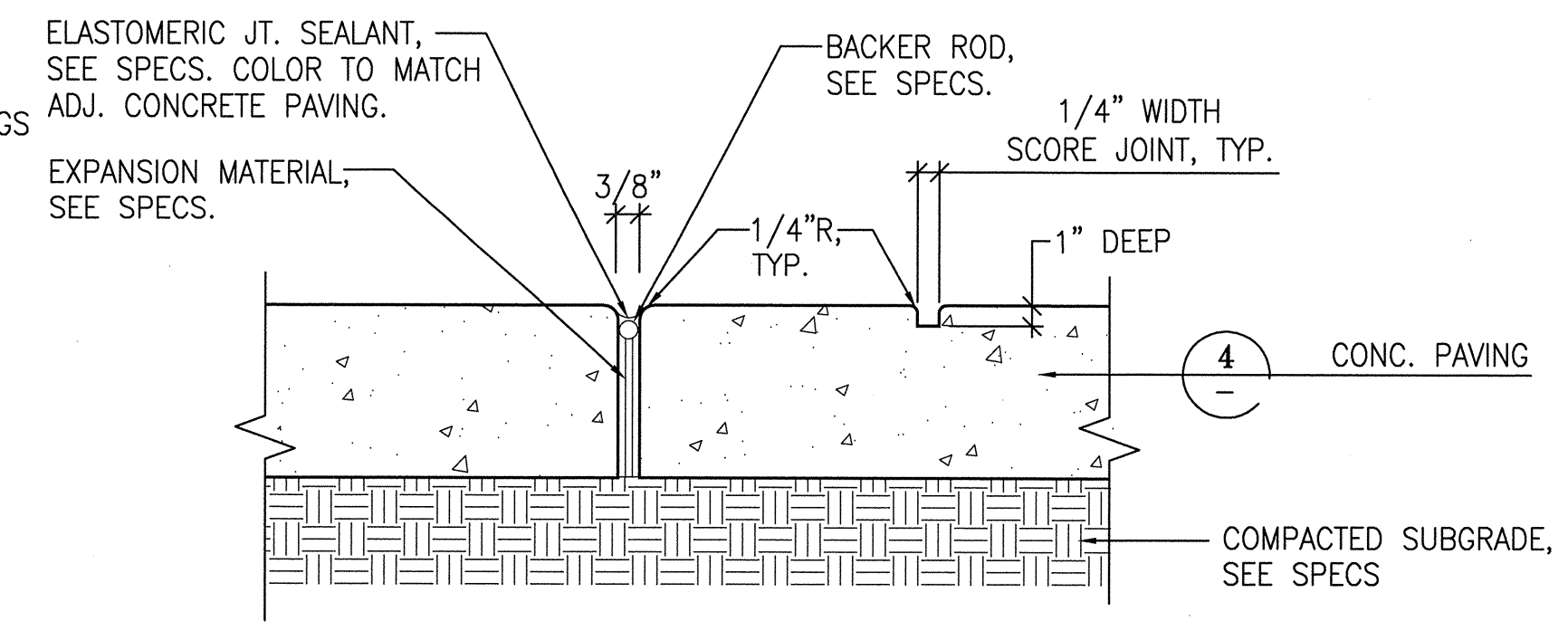
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3092V-2



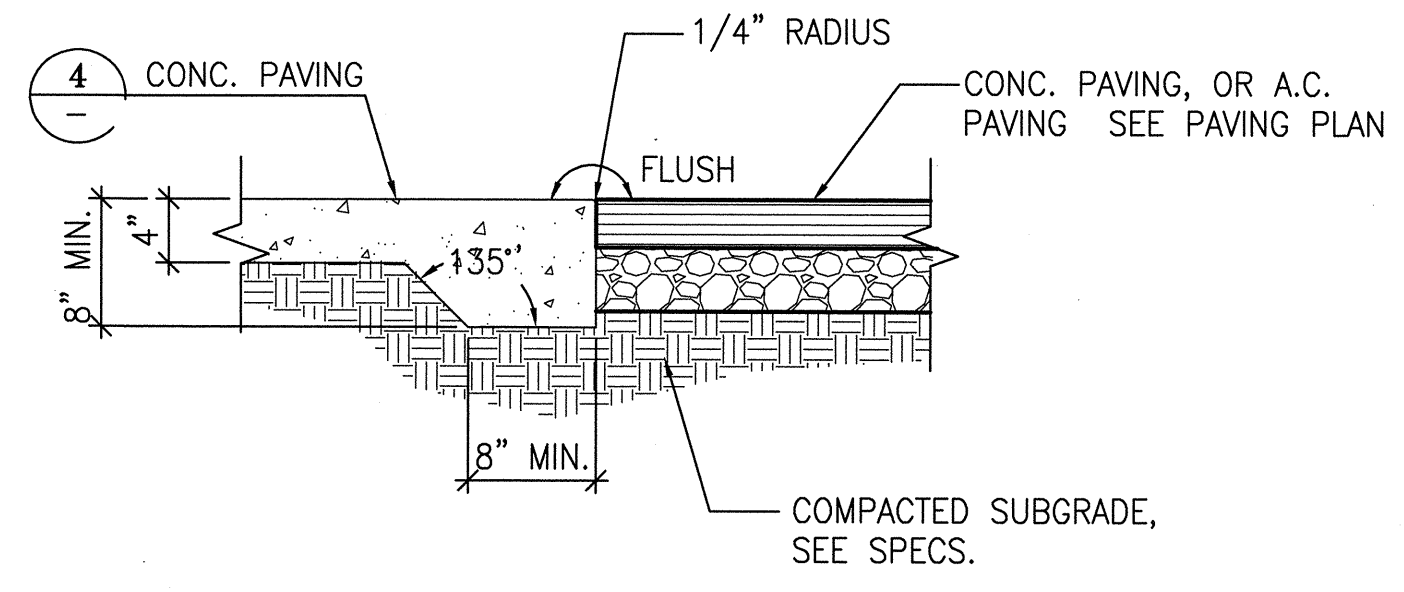
NOTES:

1. CONCRETE PAVING TO BE COLORED INTEGRALLY WHERE INDICATED, SEE PAVING PLAN.
2. PLACE EXPANSION JOINTS WHERE PAVING ABUTS ALL VERTICAL SURFACES.



NOTES:

1. PLACE EXPANSION JOINTS WHERE PAVING ABUTS ALL VERTICAL SURFACES.
2. HANDTOOL ALL JOINTS.



CONCRETE PAVING

SCALE: N.T.S.

1

EXPANSION & SCORE JOINT

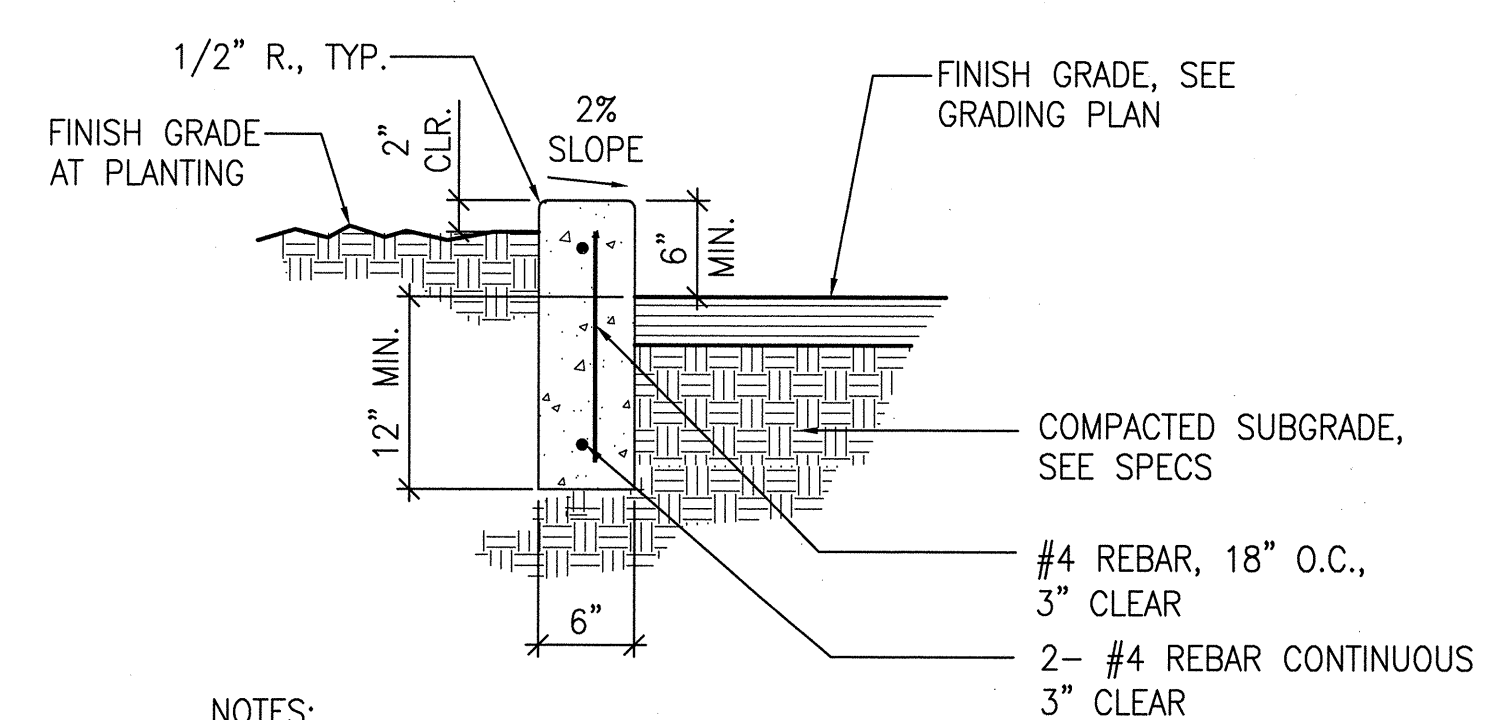
SCALE: N.T.S.

2

THICKENED CONCRETE EDGE

SCALE: 1"=1'-0"

3



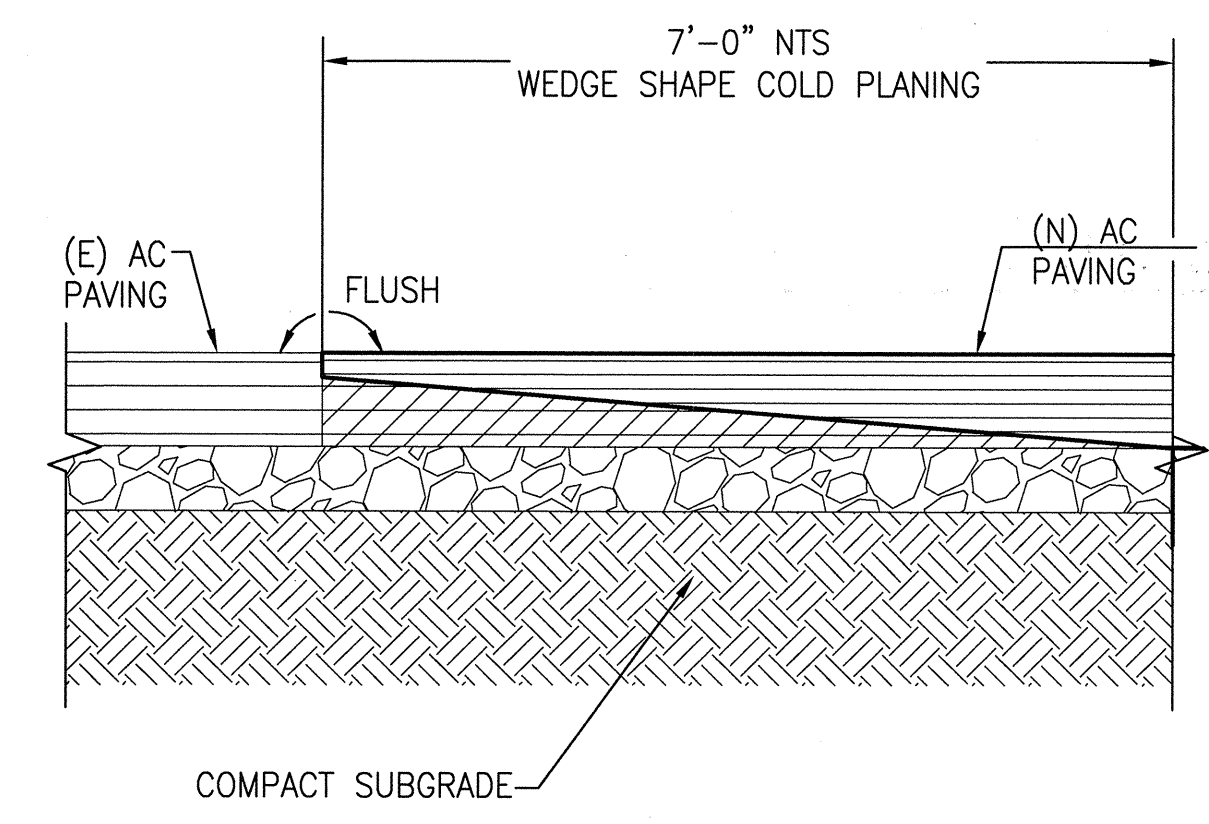
NOTES:

1. FINISH ALL EXPOSED SURFACES PER SAN FRANCISCO DPW SS SECTION 411.10, 411.11.
2. PROVIDE A SCORE JOINT AT 5' O.C.

CONCRETE CURB

SCALE: 1"=1'-0"

4



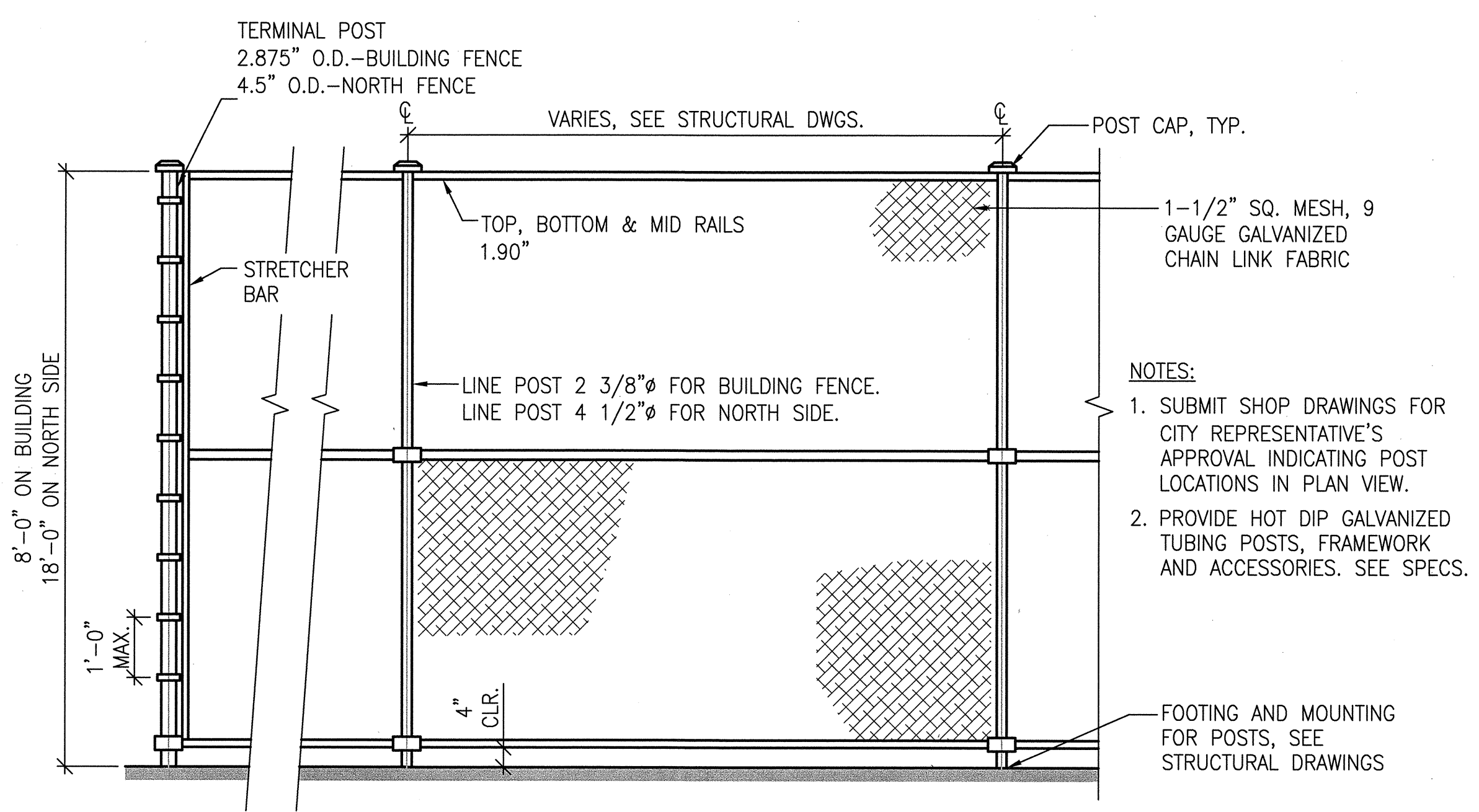
NOTE:

APPLY ACRYLIC COURT SURFACING ON ALL NEW AC PAVING. COLOR TO BE SIMILAR TO EXISTING COURTS.

(E) & (N) AC PAVING INTERFACE

SCALE: 1"=1'-0"

5



NOTES:

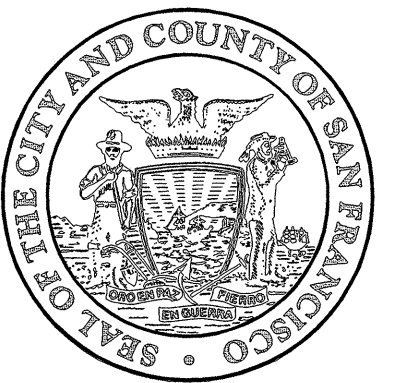
1. SUBMIT SHOP DRAWINGS FOR CITY REPRESENTATIVE'S APPROVAL INDICATING POST LOCATIONS IN PLAN VIEW.
2. PROVIDE HOT DIP GALVANIZED TUBING POSTS, FRAMEWORK AND ACCESSORIES. SEE SPECS.

CHAIN LINK FENCE

SCALE: 1/2"=1'-0"

6

CADD FILE NAME: EAC-NAC
DATE: 08-19-04 (JM & HD)



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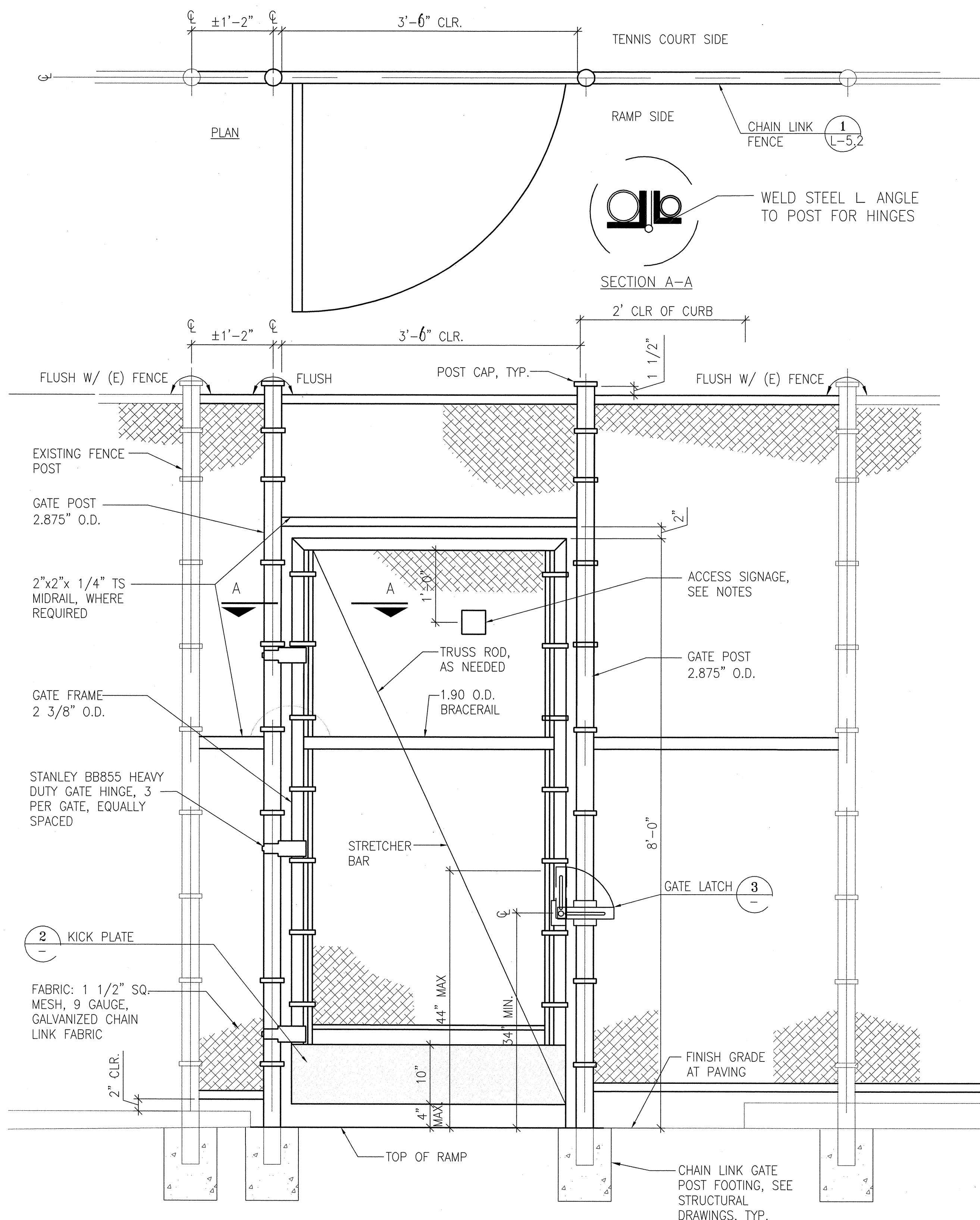
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L-5.1

Scale AS SHOWN

Job No.

3092V-2



NOTES:

1. PROVIDE HOT DIP GALVANIZED TUBING POSTS, FRAMEWORK, ACCESSORIES, SEE SPECS.
2. PROVIDE SHOP DRAWINGS FOR CITY REPRESENTATIVE'S APPROVAL FOR COMPLETE ASSEMBLY.
3. PROVIDE A GALVANIZED STEEL PLATE, MIN. 1/4" THICK, TO MOUNT 4"x4" INTERNATIONAL SYMBOL OF ACCESSIBILITY (SEE 3/L-5.4) BOLT PLATE TO EXTERIOR FRONT OF GATE. VERIFY ACT LOCATION W/ CITY REPRESENTATIVE.
4. FOR SWING DIRECTIONS, SEE PLAN.
5. PROVIDE HOLD BACK (NOT SHOWN) FOR EACH DOUBLE LEAF.

SINGLE CHAIN LINK GATE

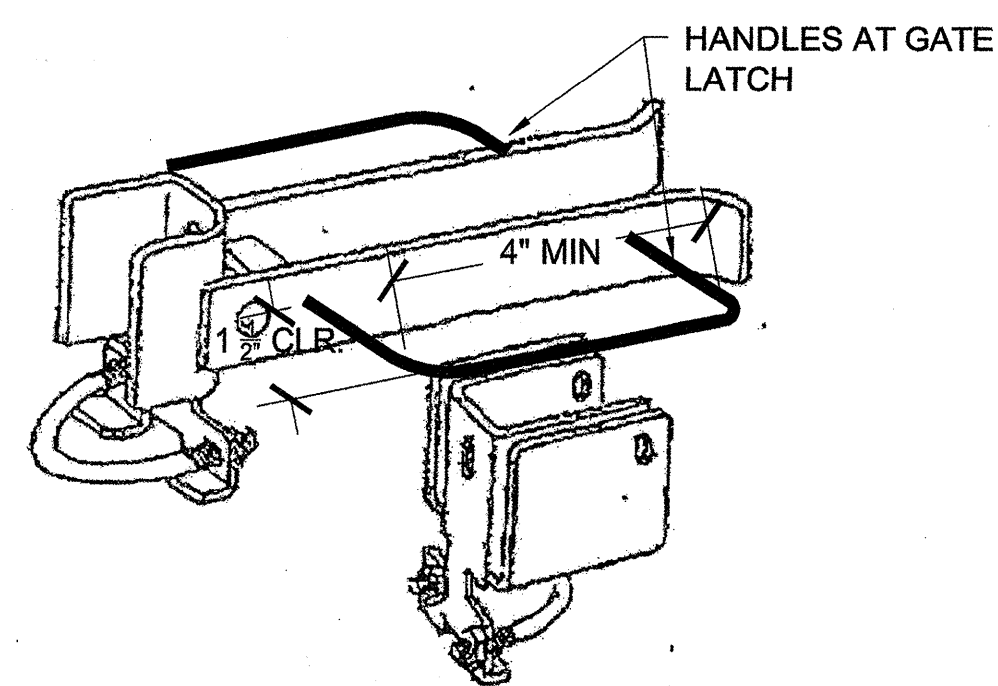
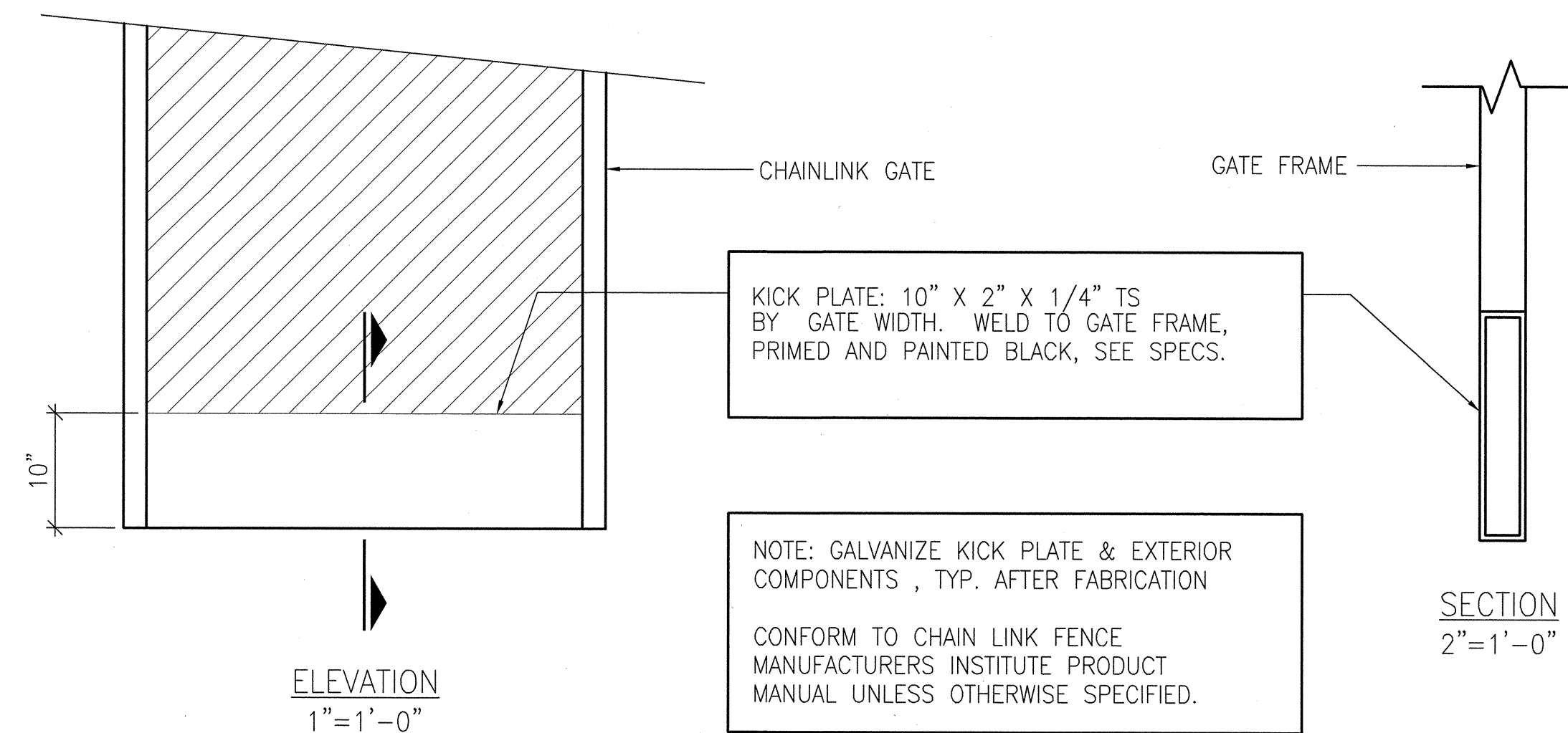
SCALE: 1"=1'-0"

1

KICK PLATE

SCALE: AS SHOWN

2



NOTES:

1. COMMERCIAL GRADE FULCRUM GATE LATCH - "STRONG ARM LATCH" AS AVAILABLE FROM THOLL FENCE, INC. (775) 358-8680
2. HANDLES AT GATE LATCH: 1/2"Ø GALVANIZED STEEL HANDLES
3. WELD HANDLES ON BOTH SIDES AS SHOWN, MOUNT LEVEL ON GATE.
4. LATCH HANDLES MEASURED FROM INSIDE EDGE.

GATE LATCH

SCALE: N.T.S.

3



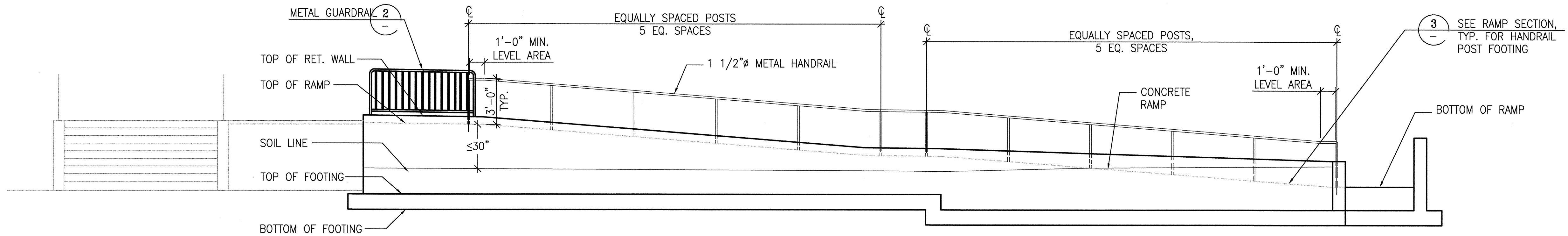
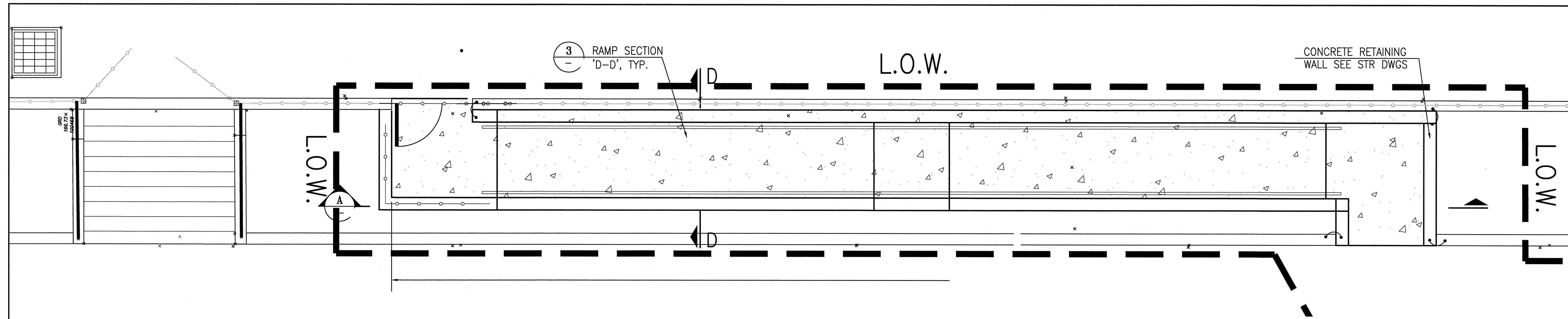
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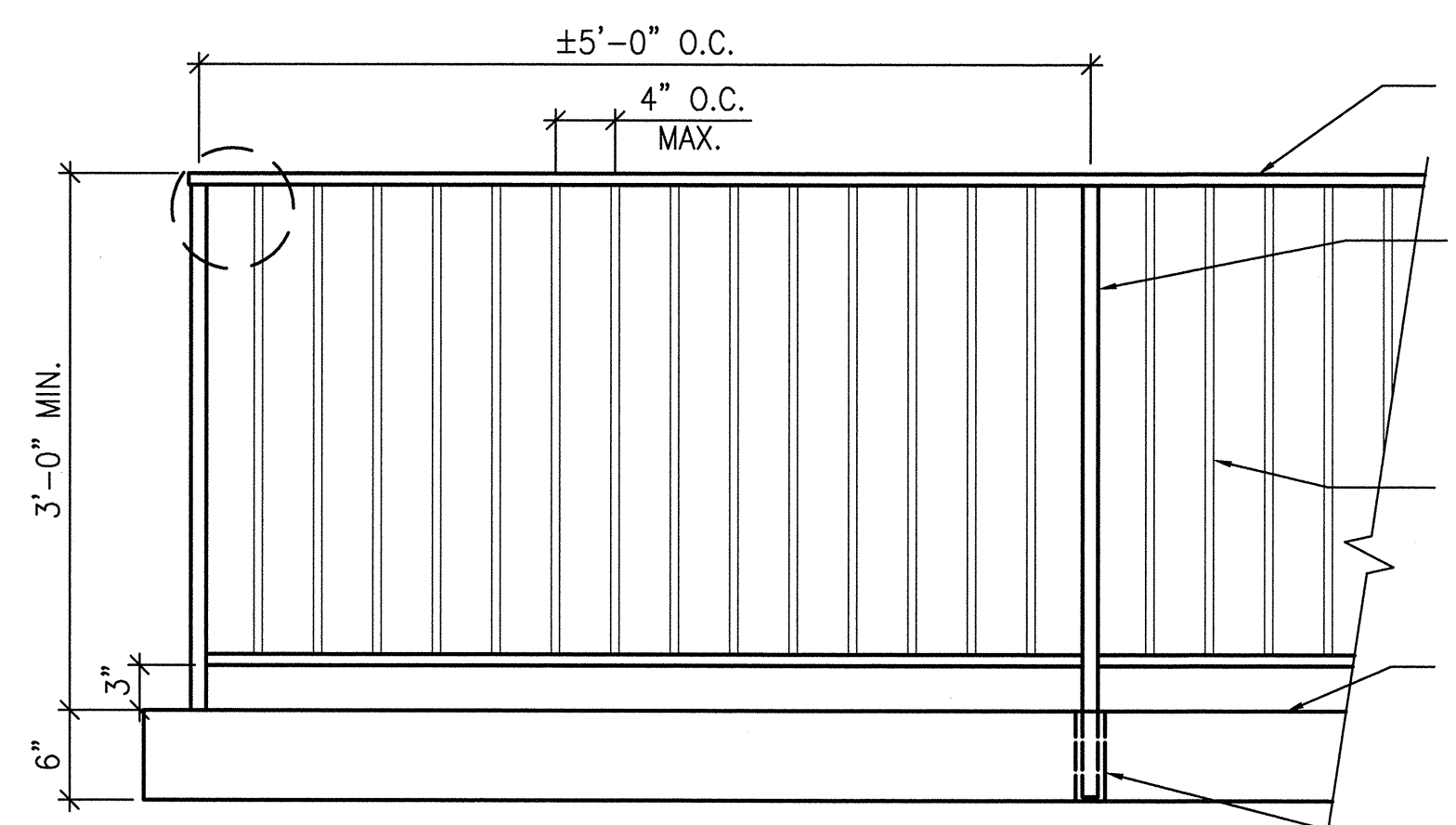
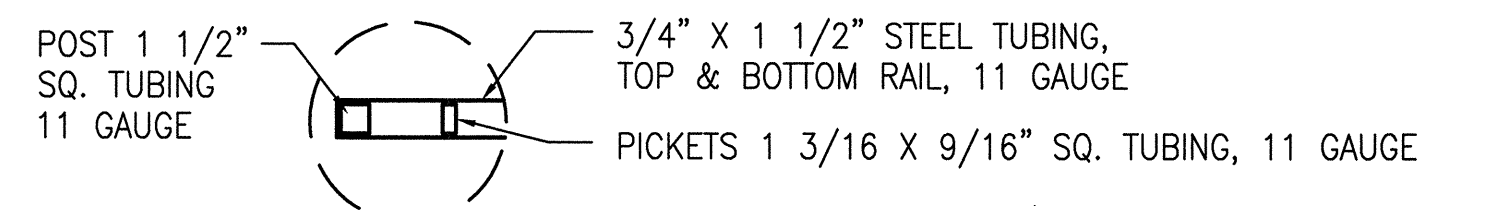


ELEVATION A

NOTES:

1. CONCRETE RAMP TO BE COARSE BROOM FINISH, PERPENDICULAR TO THE PATH OF TRAVEL.
2. SCORE JOINTS SHALL BE ALIGNED WITH POST LOCATIONS.
3. ALL METAL WORK TO BE HOT-DIPPED GALVANIZED, SEE SPECS.
4. SUBMIT SHOP DRAWINGS FOR HANDRAILS, INCLUDING PLAN VIEW OF POST LOCATIONS FOR CITY REPRESENTATIVE'S APPROVAL.

CONCRETE RAMP



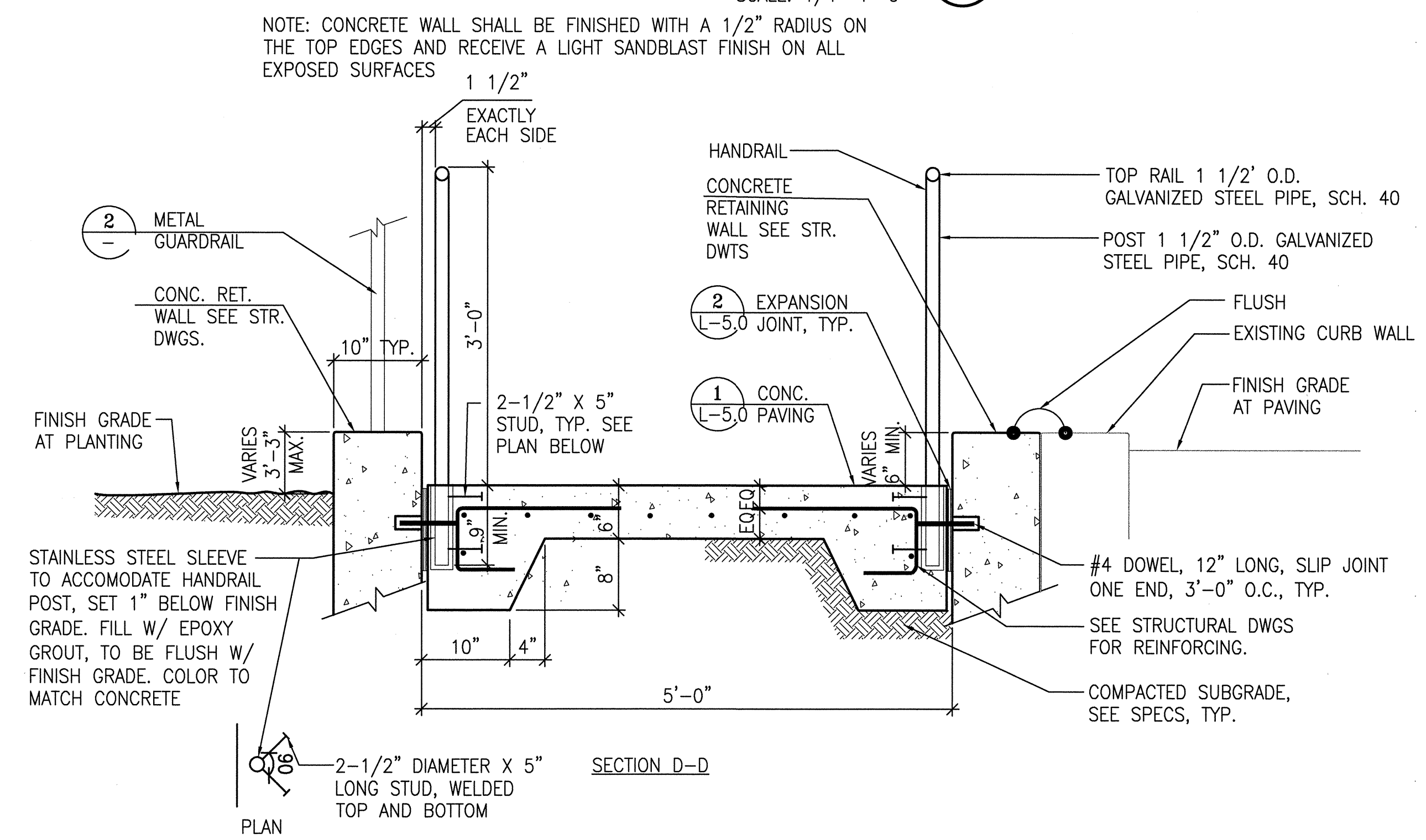
NOTES:

1. TOP AND BOTTOM RAIL LEVEL W/TOP OF RET. WALL.
2. FENCE TO BE PAINTED, SEE SPECS.
3. SUBMIT SHOP DRAWINGS FOR CITY REPRESENTATIVE'S APPROVAL, INCLUDING COMPLETE PLAN VIEW OF POSTS.

METAL GUARDRAIL

SCALE: 1"=1'-0"

2



RAMP SECTION - TYP.

SCALE: N.T.S.

3

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Drawn	EB
Date	08/2012
Phase	



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CONSTRUCTION DETAILS

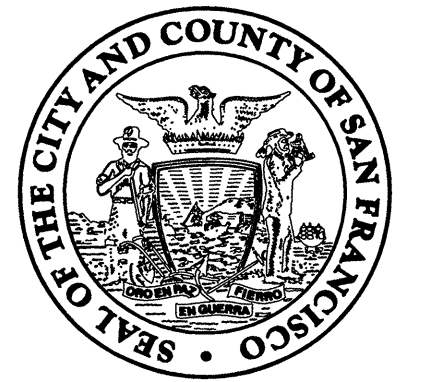
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L-5.2

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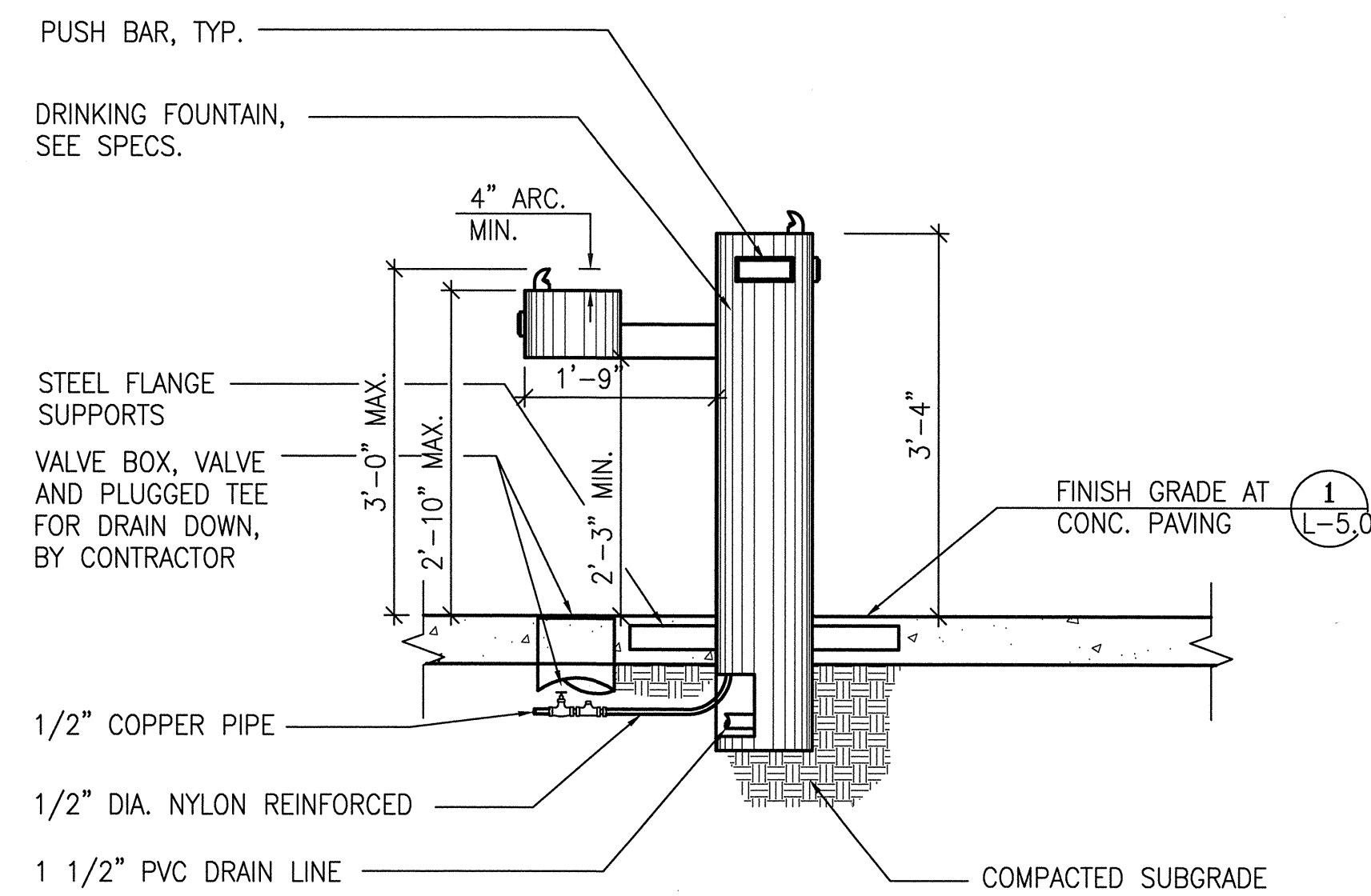
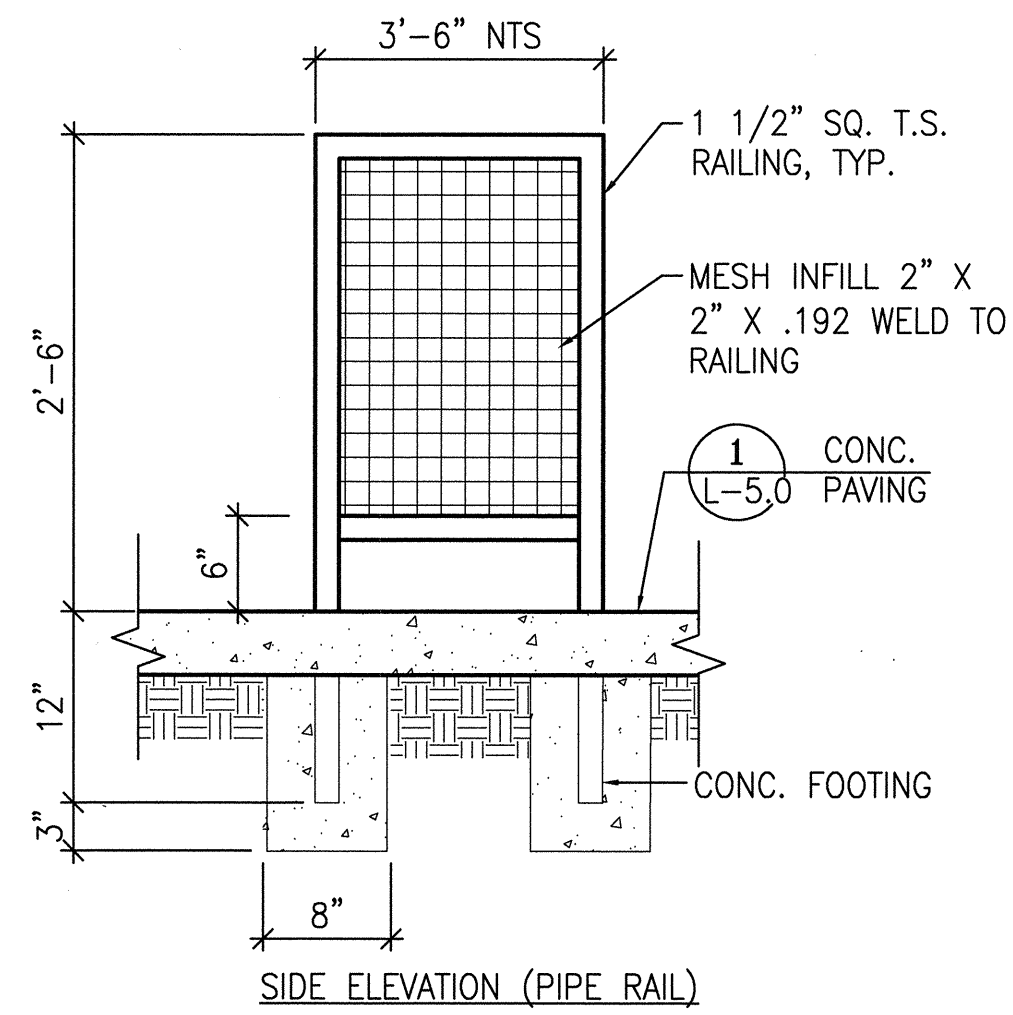
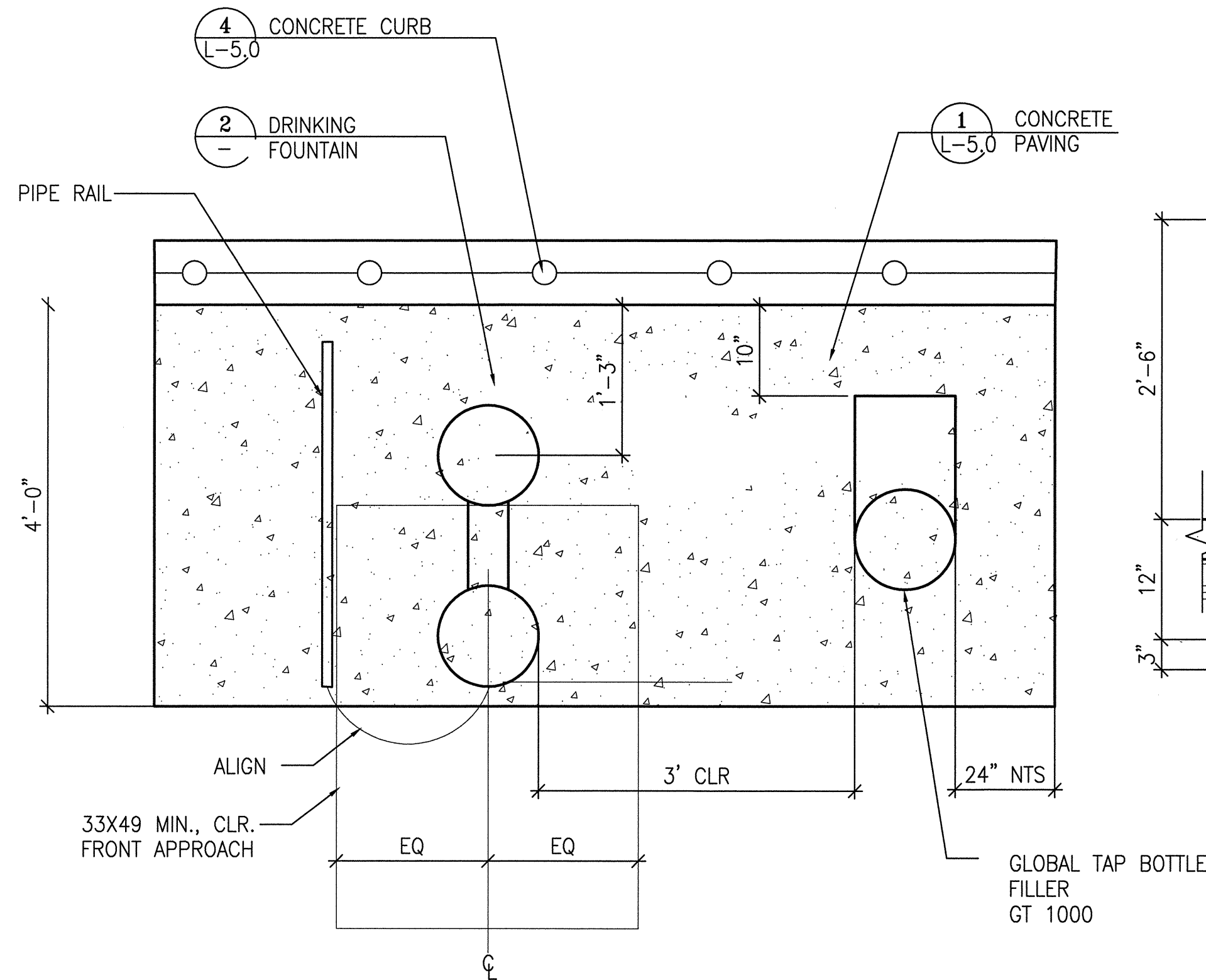
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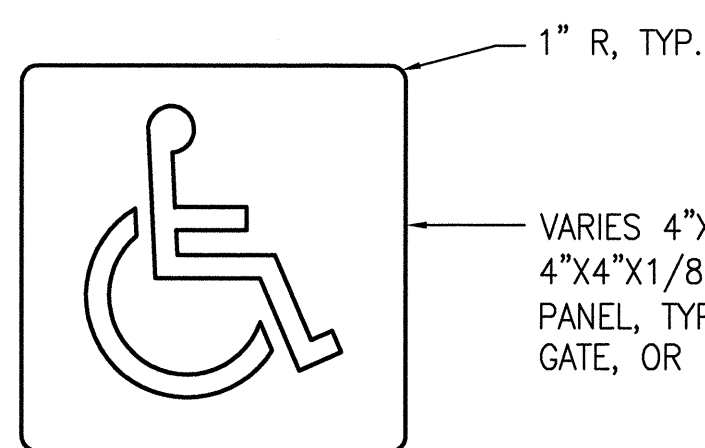


DRINKING FOUNTAIN PLAN

SCALE: 1"=1'-0" 1

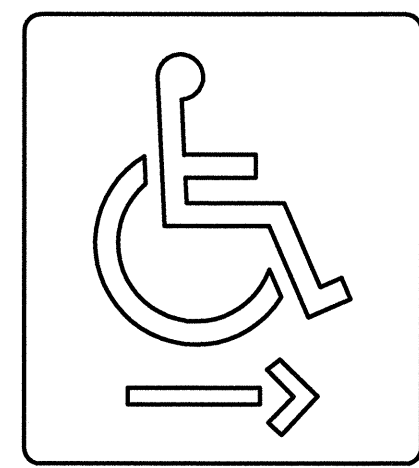
DRINKING FOUNTAIN

SCALE: 1"=1'-0" 2



VARIES 4"x6"x1/8" THICK OR 4"x4"x1/8" THICK ALUMINUM PANEL, TYP., (1) TOTAL, WALL, GATE, OR FENCE MOUNTED

ISA SIGN



MIN 4"x6"x1/8" THICK ALUMINUM PANEL, TYP. POST MOUNTED SIGN; ARROW DIRECTION TO BE DETERMINED. (TOTAL)

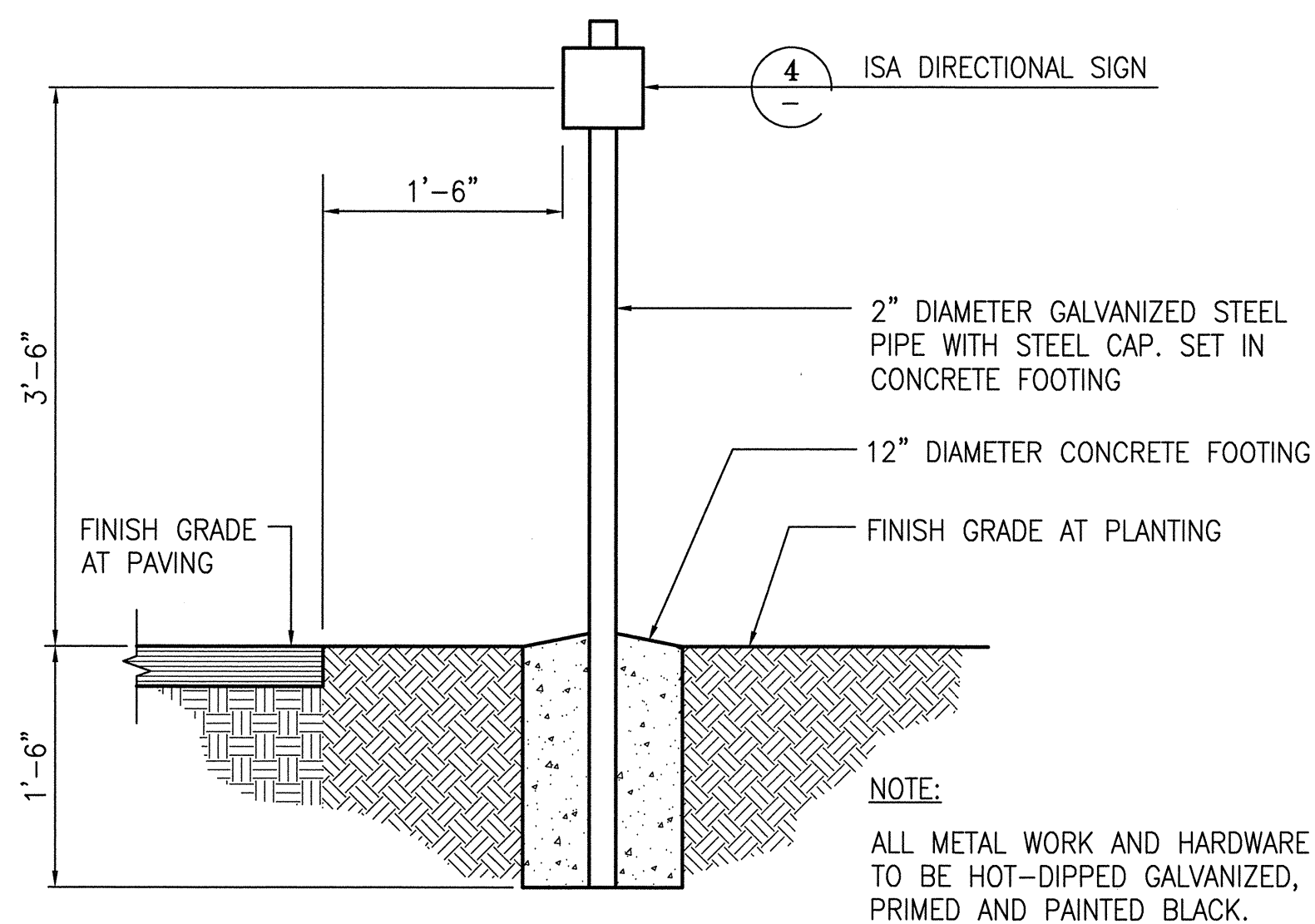
ISA DIRECTIONAL SIGN

NOTES:

1. PROVIDE SIGNS AS SHOWN ON THE PLANS AND IN THE DETAILS.
2. SIGN SHALL BE 1/8" ALUMINUM PANEL, SCREEN PRINT IMAGES. IMAGES AND TEXT SHALL BE TAN WITH GREEN BACKGROUND.
3. FINAL COLORS TO BE APPROVED BY CITY REPRESENTATIVE.
4. ALL TEXT TO BE MIN. 1" IN HEIGHT.
5. EXACT SIGN LOCATIONS TO BE DETERMINED BY CITY REPRESENTATIVE.
6. SUBMIT SHOP DRAWINGS, SHOWING INSTALLATION DETAILS, AND COLOR SAMPLES FOR CITY REPRESENTATIVE'S APPROVAL.

INTERNATIONAL ACCESSIBILITY SIGNS
(ISA)

SCALE: N.T.S. 3



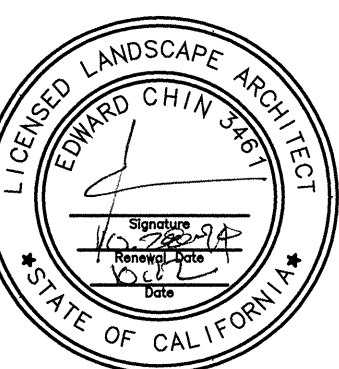
NOTE:
ALL METAL WORK AND HARDWARE TO BE HOT-DIPPED GALVANIZED, PRIMED AND PAINTED BLACK.

SIGN - POST MOUNT

SCALE: 1"=1'-0" 4

No.	Date	Revisions

Section Head	SH
Proj. Mgr.	MY
Proj. Arch.	EC
Drawn	EB
Date	08/2012
Phase	



Drawing Title

CONSTRUCTION DETAILS

Sheet No.

L-5.3

Scale AS SHOWN

Job No.

3092V-2

DESIGN & CONSTRUCTION
BUILDING DIVISION



Architecture • Construction

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San Francisco, CA (415) 557-4700
94102-6028 Fax (415) 5574701

Project

2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOM
336 31ST AVE. San Francisco, CA 94121
Block No. 1403- Lot No. 007

BID SET

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS/ CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028	
DESIGNED BY: <i>[Signature]</i> CEC	DATE: 9/28/2012
DRAWN BY: <i>[Signature]</i> CEC	DATE: 9/28/2012
CHECKED BY: <i>[Signature]</i> PT	DATE: 9/28/2012
APPROVED	
<i>[Signature]</i> OCT 11 2012	
SECTION MANAGER: <i>[Signature]</i>	DATE: 10/11/12
DEPUTY DIVISION MANAGER: <i>[Signature]</i>	DATE: 10/11/12
DIVISION MANAGER: <i>[Signature]</i>	DATE: 10/11/12

No.	Date	Revisions

Section Head _____
Proj. Mgr. _____
Proj. Arch. _____
Drawn _____
Date _____
Phase _____



ELECTRICAL
LEGEND &
ABBREVIATIONS

Sheet No.

E-1

Scale NONE

Job No.

3092V-2

L E G E N D

POWER

#10 CONDUIT AND WIRING AS NOTED. DIAGONAL LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. NO LINE INDICATES 2#10 & 1#10 GRD. AWG, UON. "4" INDICATES GROUND, #10 INDICATES WIRE SIZE. AND LONGER HASH INDICATES NEUTRAL. ALL CONDUIT SHALL BE CONCEALED IN CEILING, WALL OR SLAB WHEREVER POSSIBLE. MINIMUM 3/4" C FOR BUILDING INTERIOR.

A-1 HOMERUN TO ELECTRICAL PANELBOARD, CIRCUIT NUMBER IDENTIFIED FOR EACH ARROW.

CONDUIT BENDS TOWARD OBSERVER.

CONDUIT BENDS AWAY FROM OBSERVER.

CONDUIT STUB OUT PULL ROPE AND CAP.

----- UNDERGROUND CONDUIT SHALL BE MIN. 1" C. U.O.N.

-T-T- TELEPHONE CONDUIT

-TV-TV- COMCAST UNDERGROUND CONDUIT

////// CONDUIT AND/OR WIRING TO BE REMOVED.

MOTOR

1 COMBINATION MOTOR STARTER, CIRCUIT BREAKER TYPE, 1 INDICATES NEMA SIZE STARTER

DISCONNECT SWITCH, SIZE AS NOTED

WHM WATT HOUR METER

BUS

MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED: 50A-TRIP RATING IN AMPERE
NA - NON-AUTOMATIC
MCP - MOTOR CIRCUIT PROTECTOR

----- ELECTRICAL ENCLOSURE OUTLINE

JUNCTION BOX WITH COVER.

WALL MOUNTED JUNCTION BOX WITH COVER.

PRECAST PULL BOX, AS SHOWN IN DPW STANDARD PLANS SEPT. 2007, FILE NO. 87,201, TYPICALLY TYPE 1, UON.

GROUND

SHEET NOTE

ELECTRICAL EQUIPMENT

RECEPTACLE, DUPLEX 20A, 3PG, 125V, +18" UON

RECEPTACLE, DUPLEX 20A, 3PG, 125V, GFCI, +18" UON
"WP" WEATHER PROOF LOCKABLE METTALIC COVER, OUTLET TO BE ABLE TO CLOSE WHILE IN-USE AND MEET NEC REQUIREMENTS.

RECEPTACLE QUADRUPLEX, 20A, 3PG, 125V, +18" AFF UON

30A, 3P, TWISTED LOCK, 120V, RECEPTACLE IN NEMA 3R STAINLESS STEEL LOCKABLE ENCLOSURE +18" AFF UON

T* THERMOSTAT. VERIFY IN FIELD FOR EXACT LOCATION. REFER TO DIV. 23

* INDICATES EQUIPMENT TO BE FURNISHED AND INSTALLED UNDER OTHER WORK IN THIS CONTRACT. ALL ELECTRICAL CONNECTIONS SHOWN SHALL BE UNDER ELECTRICAL WORK. CONTROL CONDUIT AND WIRING NOT SHOWN BUT REQUIRED FOR A COMPLETE WORKING SYSTEM SHALL BE FURNISHED, INSTALLED AND PAID FOR UNDER DIVISION 23.

THIS IS A GENERAL LEGEND, NOT ALL SYMBOLS ARE USED.

L E G E N D

LIGHTING

LED LIGHTING FIXTURE WITH INTEGRAL DRIVER

EXIT SIGN WALL/CEILING WITH INTEGRAL EMERGENCY BATTERY

DOWNLIGHT FIXTURE

EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY PACK

WALL MOUNTED LIGHTING FIXTURE

NEW POLE LIGHT

NO. LIGHTING FIXTURE & EQUIPMENT TAG, "NO." INDICATES MOUNTING HEIGHT AFF UON.

1 SINGLE POLE SWITCH, MOUNTING HEIGHT +42" AFF, UON.

3 THREE WAY SWITCH MOUNTING HEIGHT +42" AFF, UON.

OS CEILING MOUNTED MULTI TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRATED POWER BASE AND CAGE. LEVITON # OSC10-MOW OR APPROVED EQUAL

OS WALL MOUNTED LINE VOLTAGE MULTI TECHNOLOGY OCCUPANCY SENSOR LEVITON # OSSMD-MD OR APPROVED EQUAL

TC DIGITAL TIMECLOCK AND RELAY PANEL, LEVITON # R08BD-L08 OR APPROVED EQUAL.

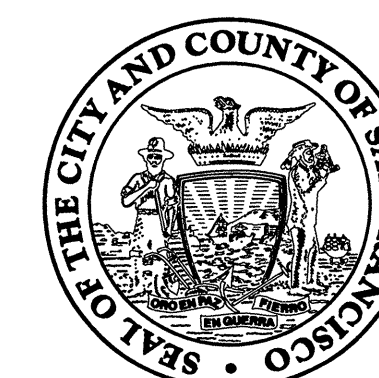
A B B R E V I A T I O N S

ADA AMERICANS WITH DISABILITIES ACT
AF AMPS FRAME
AFF ABOVE FINISHED FLOOR
AT AMPS TRIP
AWG AMERICAN WIRE GAGE
BSCW BARE STRANDED COPPER WIRE
C CONDUIT
cd CANDELA
C.O. CONDUIT ONLY WITH PULL CORD
CBC CALIFORNIA BUILDING CODE
DTIS DEPARTMENT OF TELECOM & INFORMATION SYSTEM
DWG DRAWING
(E) EXISTING
ELECT ELECTRICAL
EMERG EMERGENCY
EQPMT EQUIPMENT
F/I FURNISH & INSTALL UNDER THIS CONTRACT
FSD FIRE SMOKE DAMPER
G, GND, GRD GROUND
GRS GALVANIZED RIGID STEEL
HID HIGH INTENSITY DISCHARGE
HPS HIGH PRESSURE SODIUM
HRV HEAT RECOVERY UNIT
IBC INTERNATIONAL BUILDING CODE
JB JUNCTION BOX
LCP LOCAL CONTROL PANEL
LED LIGHT EMITTING DIODE
LTG LIGHTING
PP POWER PANEL
MCS MOLDED CASE SWITCH
MSB MAIN SWITCHBOARD
NFPA NATIONAL FIRE PROTECTION AGENCY
NTS NOT TO SCALE
PNL PANEL
RCP RADIANT FLOOR CONTROL PANEL
RECP RECEPTACLE
R/C REMOVE FROM SITE OF WORK AS CONTRACTOR'S PROPERTY
R/S REMOVE AND SALVAGE AS CITY'S PROPERTY, RETURN TO OWNER
S/N SOLID NEUTRAL
SP SUMP PUMP
SPD SURGE PROTECTION DEVICE
TEL TELEPHONE
TYP TYPICAL
TS TIME SWITCH
TV TELEVISION
UL UNDERWRITERS LABORATORIES
UON UNLESS OTHERWISE NOTED
WP WEATHERPROOF

D R A W I N G I N D E X

E-1 ELECTRICAL LEGEND & ABBREVIATIONS
E-2 GENERAL NOTES
E-3 SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E-4 INDOOR TITLE 24 DOCUMENTATION
E-5 OUTDOOR TITLE 24 DOCUMENTATION
E-6 ELECTRICAL SITE PLAN
E-7 ELECTRICAL LIGHTING PLAN & POWER PLAN

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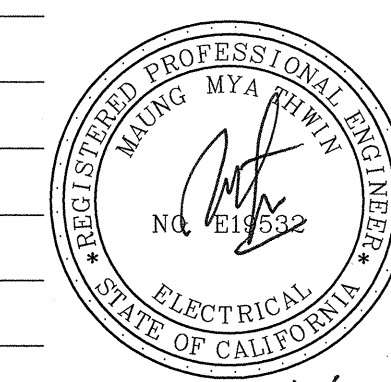
BID SET

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS/ CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028	
DESIGNED BY: <i>CEC</i>	DATE: 9/28/2012
DRAWN BY: <i>CEC</i>	DATE: 9/28/2012
CHECKED BY: <i>PJ</i>	DATE: 9/28/2012
APPROVED <i>Wade</i> OCT 11 2012	
SECTION MANAGER: _____	DATE: _____
DEPUTY DIVISION MANAGER: _____	DATE: _____
DIVISION MANAGER: _____	DATE: _____

No.	Date	Revisions

Section Head _____
 Proj. Mgr. _____
 Proj. Arch. _____
 Drawn _____
 Date _____
 Phase _____



10/11/12

Drawing Title _____

GENERAL NOTES

Sheet No.

E-2

Scale **NONE**

Job No.

3092V-2

GENERAL NOTES

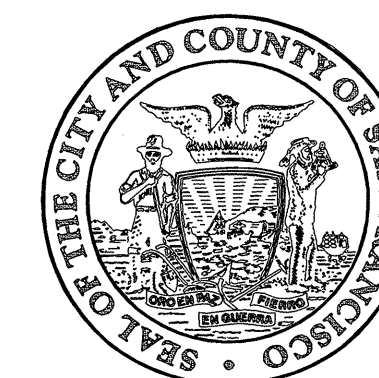
1. THESE PLANS ARE DIAGRAMMATIC AND ARE CORRECT FOR GENERAL DESIGN ONLY. EXACT LOCATIONS OF EQUIPMENT PER ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ALL WIRING SHALL BE COPPER AND SHALL BE INSTALLED IN CONDUIT. CONDUIT SIZE SHALL BE ACCORDING TO CODE. MINIMUM CONDUIT SIZE IS 3/4". ALL CONDUITS AND JUNCTION BOXES SHALL BE CONCEALED IN FURRED SPACES, CONCRETE WALLS / FLOORS, OR ABOVE ACOUSTIC CEILING, U.O.N. ALL JUNCTION BOXES SHALL BE ACCESSIBLE.
3. THIS IS A GENERAL LEGEND. NOT ALL SYMBOLS ARE USED.
4. LIGHTING AND RECEPTACLE SYSTEM - CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY CONDUITS, FITTINGS, JUNCTION BOXES AND ALL NECESSARY COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS TO MAKE ELECTRICAL INSTALLATION COMPLETE AND OPERATIONAL.
5. ALL OUTDOOR AND ANTICIPATED WET AREA SHALL HAVE GFCI OUTLETS. ALL OUTDOOR DEVICES SHALL HAVE WET WEATHERPROOF VANDAL RESISTANT METTALIC LOCKABLE COVERS WHILE IN USE.
6. PANEL DIRECTORIES SHALL BE TYPEWRITTEN.
7. OPENING THRU CEILING FOR CONDUITS SHALL BE COVERED WITH ESCUTCHEON PLATES.
8. ALL CONDUITS THRU WALL AND FLOOR SHALL BE SEALED AIR-TIGHT AROUND CONDUIT OPENING WITH CODE APPROVED MATERIAL. FIRE RATING OF WALLS OR FLOORS SHALL BE MAINTAINED.
9. PROVIDE SEPARATE GROUND WIRE IN ALL CONDUITS.
10. ALL ELECTRICAL EQUIPMENT, PANELBOARDS, CONTROL DEVICES, SHALL BE IDENTIFIED WITH ENGRAVED NAMEPLATES.
11. CONTRACTOR SHALL LABEL EACH NEW ELECTRICAL OUTLET WITH PERMANENT FELT-TIP MARKER, SHOWING PANEL NUMBER AND CIRCUIT BREAKER NUMBER FEEDING THE CIRCUIT ON THE BACK OF COVER PLATE OF THE CONVENIENCE OUTLET AND LIGHT SWITCH.
12. ALL WIRING INSIDE PULL BOXES SHALL BE TAGGED TO IDENTIFY THE CIRCUIT (BOTH PANEL AND CIRCUIT NO.) EACH BUNDLE OF WIRING RUNNING IN EACH CONDUIT SHALL BE TIE-WRAPPED SO THAT THEY REMAIN IN INDIVIDUAL GROUPINGS.
13. ALL EXPOSED CONDUIT SHALL RUN AS HIGH AS POSSIBLE AND AVOID INTERFERENCE AND EQUIPMENT FRAME STRUCTURE, CEILING INSERTS AND MECHANICAL DUCT WORK.
14. ALL PENETRATION THROUGH CONCRETE WALL SHALL BE CORE DRILLED AND GROUTED AROUND CONDUIT AFTER CONDUIT INSTALLATION. USE RIGID STEEL CONDUIT ONLY.
15. ALL ELECTRICAL EQUIPMENT, ELECTRICAL SUPPORTS, CONDUIT AND FITTINGS, AND LIGHTING FIXUTRES SHALL BE BRACED ACCORDING TO SMACNA DETAILS, AND PER IBC/CBC SEISMIC MOUNTING REQUIREMENTS AND PER CALIFORNIA TITLE 24 AND LOCAL JURISDICTION.
16. THERE SHALL BE NO MORE THAN THREE CIRCUIT HOME RUNS IN EACH CONDUIT. U.O.N.
17. PAINT ALL BLANK COVER PLATES AND EXPOSED CONDUIT TO MATCH WALL OR CEILING.
18. THERE SHALL BE NO MORE THAN 270° CONDUIT TURN IN EACH CONDUIT RUN.
19. ALL ELECTRICAL DEVICES SHALL BE UL LISTED WHERE APPLICABLE.
20. INSTALL A NYLON PULLING ROPE AND END PLUGS WITH PULL TAB IN ALL EMPTY CONDUITS.
21. PRIOR TO SUBMISSION OF BID, VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS. NO EXTRA COST WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER APPRAISAL OF EXISTING CONDITIONS.
22. EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGH OUT THE PROJECT, INCLUDING EXISTING, TEMPORARY REMODELED AND NEW AREAS, WHERE APPLICABLE.

GENERAL NOTES

23. GROUT AROUND CONDUIT TIE-INS. WHERE CONDUIT ENTERS BUILDINGS, SEAL OPENINGS WITH APPROVED DUCT SEAL TO PREVENT CIRCULATION OF AIR OR MOISTURE.
24. USE SPLIT BOLT CONNECTORS FOR COPPER CONDUCTOR SPLICES AND TAPS, 6 AWG AND LARGER. TAPE UNINSULATED CONDUCTORS AND CONNECTOR WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR. SPLIT BOLT TYPE SPLICING DEVICES (i.e.KEARNIES) SHALL BE COPPER PER DPW STANDARD PLAN SEPT. 1997 DWG. NO. 87,204.
25. FOR ATT INCOMING SERVICE, EXACT LOCATION AND COORDINATION WITH MR. ARNIE FRELIX OF DTIS AT 415-550-2909.
26. FOR PG&E INCOMING SERVICE, EXACT LOCATION AND COORDINATION WITH MR. WALTER MERVILLE, (415) 554-2445, HETCH HETCHY W&P 4TH FLOOR, 1155 MARKET ST. SAN FRANCISCO, CA 94103.
27. MECHANICAL DESIGN BUILT SYSTEM - MECHANICAL CONTRACTOR SHALL PROVIDE ALL THE LOW VOLTAGE WIRING, CONDUIT AND PULLBOXES FOR A COMPLETE OPERABLE SYSTEM AND MEET ELECTRICAL SPECIFICATION.
28. ALL DESIGN BUILT SYSTEM NEED TO BE APPROVED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR FOR THE SPECIFIC TRADE.
29. MECHANICAL PACKAGE UNIT SYSTEM: STARTER, LOCAL CONTROL PANEL, MOTOR ETC. TO BE FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. U.O.N.
30. PULL BOXES NOT IN CONCRETE OR PAVED AREA. CONTRACTOR TO PROVIDE 4" OF CONCRETE AROUND THE BOX FOR MAINTENANCE. PROVIDE AT LEAST 8" BEDROCK OF DRAINAGE GRAVEL AND CONDUIT SHALL EXTEND AT LEAST 6" ABOVE THE BEDROCK.
31. EMT FITTINGS SHALL BE STEEL SET SCREW WHEN INDOOR, COMPRESSION FITTING WHEN OUTDOOR.
32. CONDUITLET SHALL BE WITH CLIP COVERS, CROUSE-HIND FORM 7 OR APPLETON.
33. ALL OUTLET SHALL BE ALIGNED AND WITH THE SAME ORIENTATION THROUGHOUT.
34. PROVIDE A YELLOW WARNING TAPE 36 INCHES IN FRONT OF ALL ELECTRICAL PANELS ON THE FLOOR INSIDE THE BUILDING.
35. EXPOSED CONDUIT SHALL BE STRAP NOT EXCEEDING 5 FEET INTERVAL.
36. NO METAL CLAD CABLE SHALL BE USED.

DEMOLITION NOTES

1. PRIOR TO SUBMISSION OF BID, VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS. NO EXTRA COST WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER APPRAISAL OF EXISTING CONDITIONS.
2. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEMOLITION WORK.
3. EXISTING IRRIGATION SYSTEM SHALL BE OPERATIONAL THROUGHOUT THE ENTIRE DURATION OF THIS CONSTRUCTION PROJECT.
4. TEMPORARY RELOCATE EXISTING IRRIGATION SYSTEM CONTROLLER TO A SECURED AREA (i.e., CONTRACTOR'S FENCED STAGING AREA OR TRAILER) DURING THE COURSE OF CONSTRUCTION TO PREVENT TAMPERING BY THE PUBLIC. PROVIDE NEMA 3R ENCLOSURE FOR EXISTING IRRIGATION CONTROLLER IF IT IS TEMPORARILY LOCATED IN AN OUTDOOR LOCATION.
5. TEST IRRIGATION SYSTEM WHEN RELOCATED TO NEW BUILDING TO ASSURE (E)IRRIGATION CONTROLLER IS OPERATING ALL SPRINKLER ZONES PROPERLY.
6. RELOCATE EXISTING TIME CLOCK TO A SECURE AREA. (EXACT LOCATION TO BE DETERMINED IN THE FIELD). PROVIDE NEMA 3R ENCLOSURE AND MOUNT ON UNISTRUT. RECONNECT ALL THE FIELD WIRING TO MATCH EXISTING.



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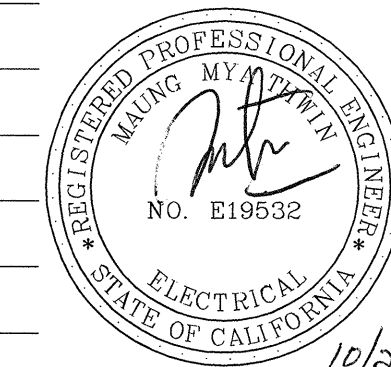
INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS/
CITY & COUNTY OF SAN FRANCISCO
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SAN FRANCISCO, CA 94102-6028

DESIGNED BY: CEC DATE: 9/28/2012
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APPROVED: *[Signature]* OCT 11 2012
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No.	Date	Revisions

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Proj. Mgr. _____
Proj. Arch. _____
Drawn _____
Date _____
Phase _____



Drawing Title

SINGLE LINE
DIAGRAM AND
PANEL SCHEDULE

Sheet No.

E-3

Scale NONE

Job No.

3092V-2

PANEL: A		LOCATION: PLUMBING ROOM, ROOM 3	
VOLTAGE: 120/240V	PHASE: 1	WIRE: 3	MOUNTING: SURFACE
NEMA: 1	AIC: 22,000	BUS: 125A	MAIN: 100A

LOAD DESCRIPTIONS	A		B		BKR		CKT NO:		BKR		A		B		LOAD DESCRIPTIONS
	VA	VA	VA	VA	A	B	A	B	A	B	VA	VA	VA	VA	
HAND DRYER - MEN'S	1600		20		1	2	20		391					LTG - R.ROOM, JAN. CLOS, EF-1	
HAND DRYER - WOMEN'S		1600			3	4	20				353			LTG - EXTERIOR	
REC - TELECOM BACKBOARD	360		20		5	6	20							SPARE	
TIMECLOCK TC		200			7	8	20							SPARE	
REC - EXTERIOR	180		20		9	10	20							SPARE	
WATER HEATER		1600			11	12	20							SPARE	
SPACE					13	14								SPACE	
SPACE					15	16								SPACE	
SPACE					17	18								SPACE	
SPACE					19	20								SPACE	
SPACE					21	22								SPACE	
SPACE					23	24								SPACE	
SPACE					25	26								SPACE	
SPACE					27	28								SPACE	
SPACE					29	30								SPACE	
TOTAL	2140	3300							391	353					
TOTAL PHASE A LOAD :	2531 VA														
TOTAL PHASE B LOAD :	3653 VA														
TOTAL LOAD:	6184 VA		25.8A												

PANEL A SCHEDULE (E-3)

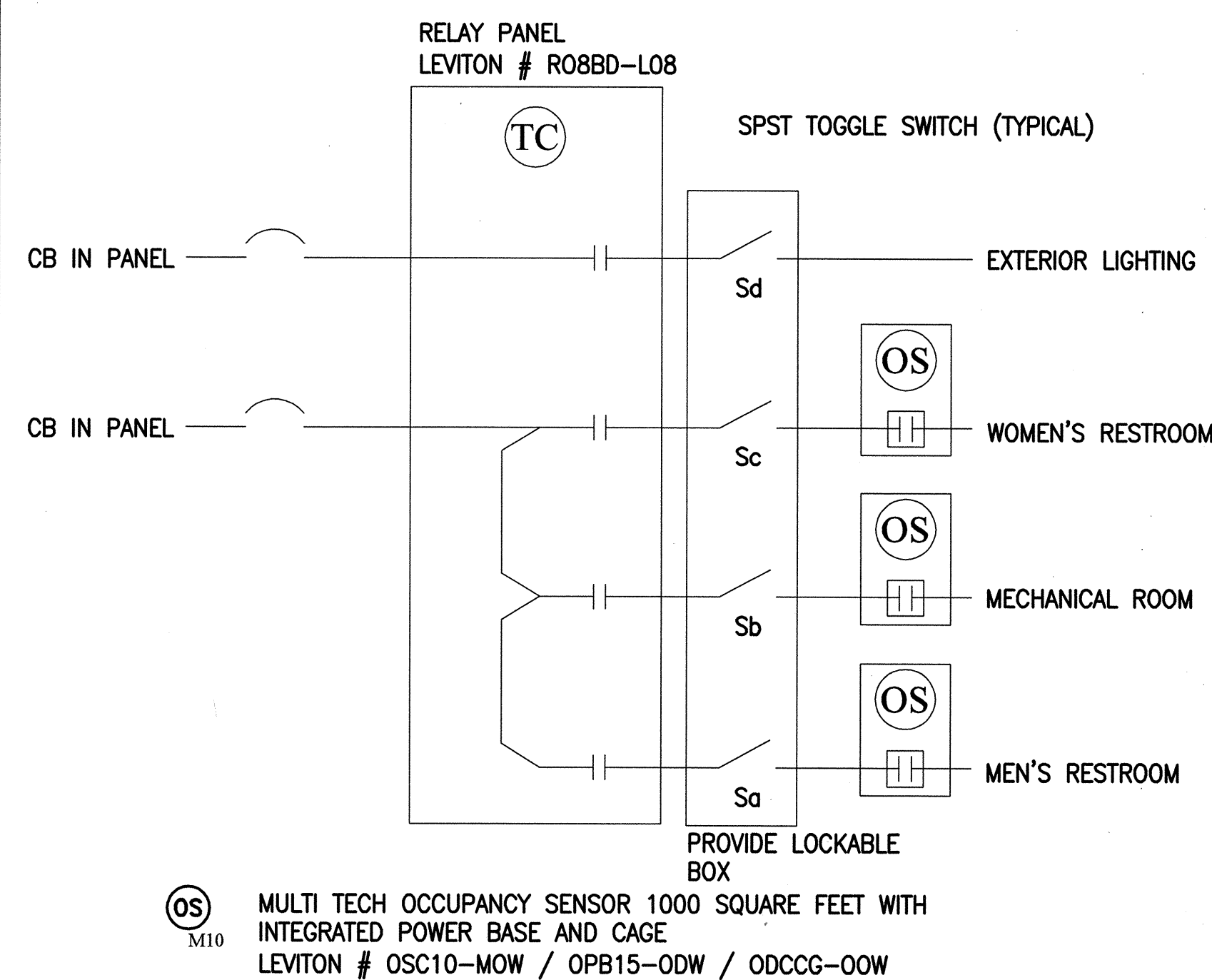
LIGHT FIXTURE SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	LAMPS	VOLT	MOUNTING
A 49	WET LOCATION RATED, EXTERIOR LED LIGHTING FIXTURE WITH INTEGRATED DRIVER, EXTRUDED ALUMINUM HOUSING, AND FROSTED GLASS LENS. PROVIDE SHOP DRAWINGS PRIOR TO ORDERING. COORDINATE MOUNTING LOCATIONS WITH ARCHITECT. EXACT LENGTHS TO BE SPECIFIED IN THE FIELD.	LUMENPULSE LOG HO/120/36/40K/30X60 OPTICS/UMP/SI/NO/ETE	49W LED	120V	RECESSED
A1 25.5	SAME AS FIXTURE "A" EXCEPT WITH CLEAR GLASS LENS AND 60"X60" OPTICS.	LUMENPULSE LOG RO/120/36/40K/60X60 OPTICS/UMP/SI/NO/ETE	25.5W LED	120V	RECESSED
C 60	4' HIGH ABUSE SURFACE MOUNTED FIXTURE WITH HEAVY GAUGE STEEL HOUSING, POLYCARBONATE LENS, AND INTEGRATED DRIVER.	NEWSTAR 51HA4-L-50-B-12-SS-WL	60W LED	120V	SURFACE MOUNT
EM 10	VANDAL RESISTANT, WET LOCATION LED EMERGENCY LIGHT WITH GASKET SEALED DIE-CAST ALUMINUM HOUSING, POLYCARBONATE REFRACTOR, AND 90 MINUTE INTEGRAL EMERGENCY BATTERY. COLOR PER ARCHITECT.	ISOLITE ELED SERIES: ELED-EM	10W LED	120V	WALL

LIGHTING FIXTURE SCHEDULE (E-3)

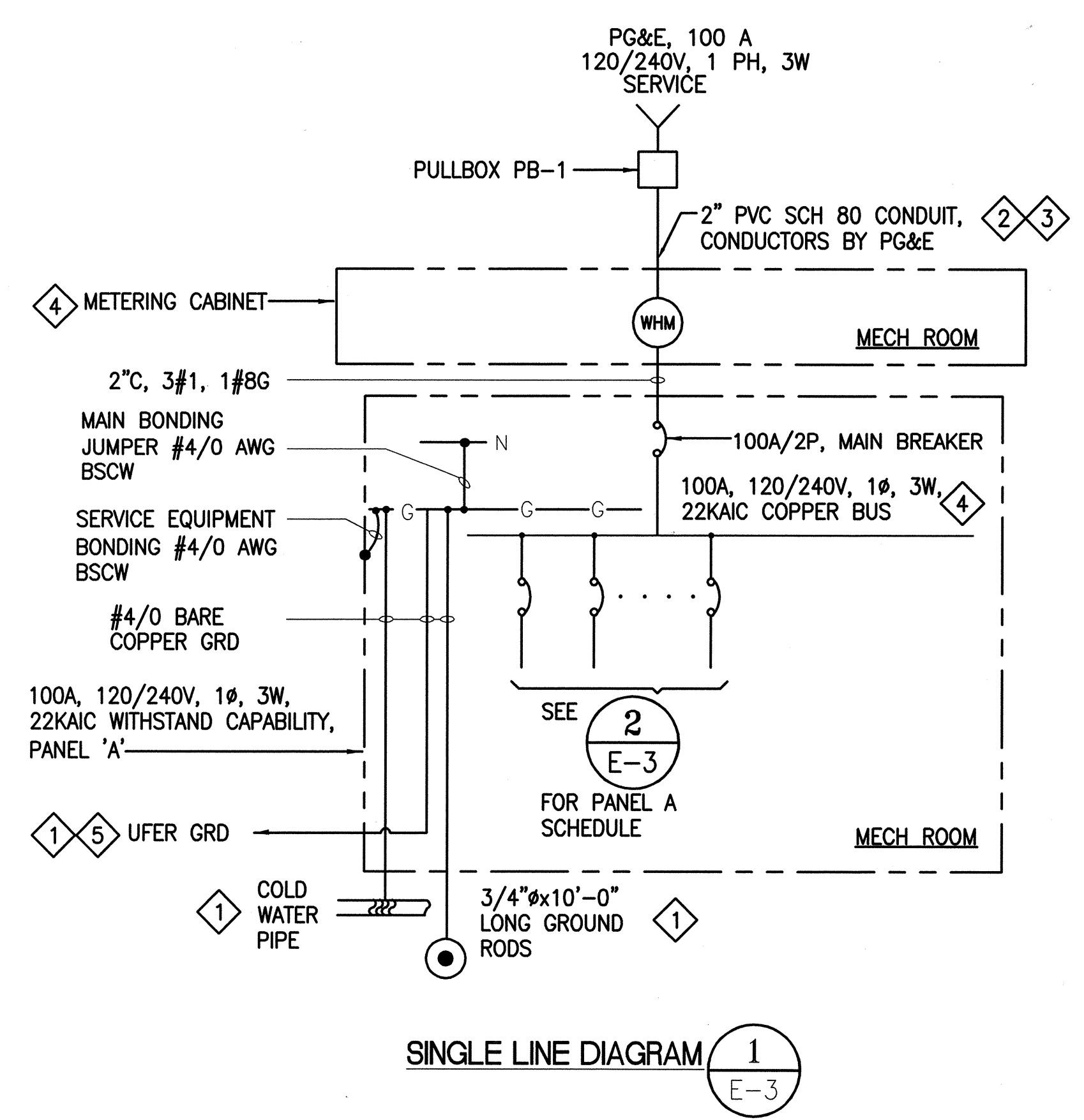
DIGITAL LIGHTING CONTROLLER: TC			
NEMA 1 ENCLOSURE			
SIZE: 15" H, 10 3/4" W, 4" D			
VOLTAGE: 120V		LOCATION: PLUMBING ROOM	
		MOUNTING: SURFACE	
		FEED FROM EXISTING PANEL A-7	
Channel #	CIRCUIT #	CIRCUIT LOAD (VA)	Load Description
1	4d	386	EXTERIOR LIGHTING
2	2a	140	MEN'S RESTROOM
3	2b	70	MECHANICAL ROOM
4	2c	140	WOMEN'S RESTROOM
5	Spare		
6	Spare		
7	Spare		
8	Spare		
TOTAL LOAD		736	

NOTE: PROVIDE STAINLESS STEEL ENCLOSURE FOR NEMA 1 LIGHTING CONTROLLER.

DIGITAL TIMECLOCK SCHEDULE



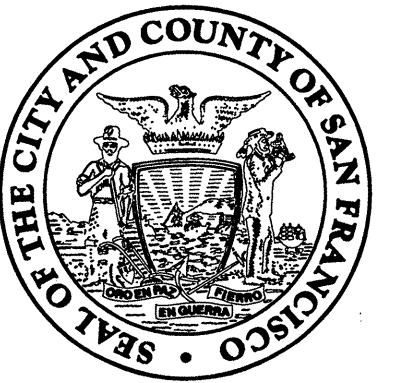
LIGHTING CONTROL DIAGRAM



SINGLE LINE DIAGRAM (E-3)

SHEET NOTES

- 1 PROVIDE GROUNDING PER NEC 250-53, 250-62, 250-66, 250-80 AND TABLE 250-66, 250-122 AND PER SPECIFICATION 26 05 26.
- 2 CONTRACTOR TO COORDINATE AND COMPLY WITH PG&E GREEN BOOK REQUIREMENTS. PROVIDE CONDUIT AND METER TERMINATION AS REQUIRED PER PG&E.
- 3 CONTRACTOR TO COORDINATE WITH PG&E ENGINEER AND PG&E GREEN BOOK FOR EXACT REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 1) CONDUIT ROUTING & SERVICE BOX WHERE REQUIRED.
 - 2) PG&E FAULT CURRENT RATING, SUBMISSION OF INCOMING SERVICE ELEVATION, AND SUBMITTAL TO PG&E FOR APPROVAL BEFORE FABRICATION.
- 4 MANUFACTURER OF METER MAIN SHALL MEET EUSERC GUIDELINES PER EUSERC MANUAL SECTION 200 AND SECTION 300. OBTAIN PG&E APPROVAL OF ELECTRICAL SERVICE EQUIPMENT PRIOR TO INSTALLATION.
- 5 ELECTRODE TO BE ENCASED IN A MINIMUM 2" CONCRETE, THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20' BARE COPPER CONDUCTOR NOT LESS THAN 1/2" DIA. OR #4AWG.



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BID SET

Consultant

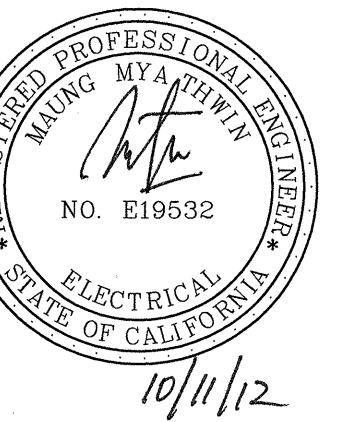
INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS/
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY: *CEC* DATE: 9/28/2012
DRAWN BY: *CEC* DATE: 9/28/2012
CHECKED BY: *PT* DATE: 9/28/2012

APPROVED: *Wade* OCT 11 2012
SECTION MANAGER: DATE: 10/11/2012
DEPUTY DIVISION MANAGER: DATE: 10/11/2012
DIVISION MANAGER: DATE: 10/11/2012

No.	Date	Revisions

Section Head _____
Proj. Mgr. _____
Proj. Arch. _____
Drawn _____
Date _____
Phase _____



Drawing Title

OUTDOOR
TITLE 24
DOCUMENTATION

Sheet No.

E-5

Scale NONE

Job No.

3092V-2

Certificate of Compliance (Page 1 of 4) OLTG-1C
Project Name: DUPONT TENNIS COURTS RESTROOMS Date: 9/12/2012
Project Address: 340 31ST AVE, SAN FRANCISCO 94121
General Information: Phase of Construction: New Construction Addition Alteration
Documentation Author's Declaration Statement: I certify that this Certificate of Compliance documentation is accurate and complete.
Name: CHRISTOPHER CAPARRO Signature: [Signature] Date: 9/12/2012
Company: DPW, CITY & COUNTY OF SF
Address: 30 VAN NESS AVE. 5TH FLOOR
City/State/Zip: SAN FRANCISCO, CA 94102 Phone: (415)558-4097
Principal Lighting Designer's Declaration Statement: I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
Name: PHILLIP THWIN Signature: [Signature] License #: E19532 Date: 9/12/2012
Principal Lighting Designer's Declaration: I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in accordance with Section 147 of the Standards.
Outdoor Lighting Mandatory Measures: Indicate location on building plans of Mandatory Measures Note Block: THIS SHEET
LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included):
 OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals.
 OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting, Optional on plans.
 OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area, Optional on plans.
 OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements, Optional on plans.

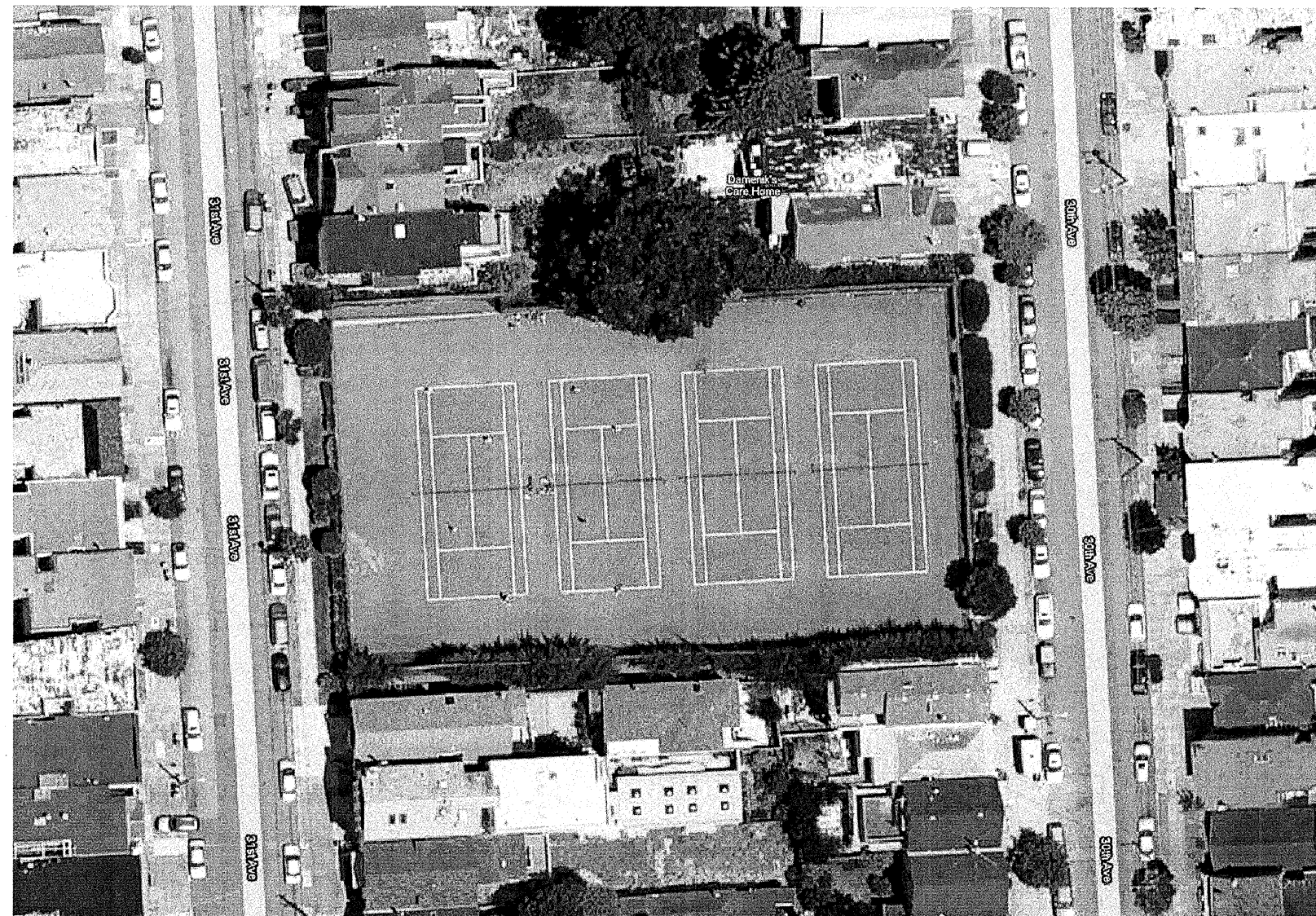
Certificate of Compliance (Page 2 of 4) OLTG-1C
COMPLIANCE FIXTURE / LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST
Project Name: DUPONT TENNIS COURTS RESTROOMS Date: 9/12/2012
INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection
CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection
Luminaire Schedule Table:
A B C D E F G H I
Name or Item Tag Luminaire Description (i.e.: 1 lamp pole-top shoe-box 400 watt metal halide) Cutoff Designation Watts per Luminaire Special Features Default N/A S Accroding to §130 (d or e) Number of Luminaires Installed (G x H) (G x H) Pass Fail
AAZ 36" 1 ROW LED FIXT 49 8 343
Enter total into OLTG-1C, Page 4 of 4; Row H: Total Installed Watts: 343
1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent, incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballasts per luminaire. For incandescent luminaires, the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire, NOT the wattage of the lamp (ball) used, in accordance with Section 130(d) or (e).
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.
EXEMPT LUMINAIRES Field Inspection
MANDATORY CONTROLS Field Inspection
SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)
Field Inspector Notes or Discrepancies:

Certificate of Compliance (Page 3 of 4) OLTG-1C
Project Name: DUPONT TENNIS COURTS RESTROOMS Date: 9/12/2012
A. OUTDOOR LIGHTING ZONE
OUTDOOR LIGHTING ZONE: OLZ 1 OLZ 2 OLZ 3 OLZ 4
Is the Outdoor Lighting Zone: Default in accordance with §10-114, or Amended by JHA
Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):
 The site is a government designated park, recreation area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114(A), because the site is contained within such a zone.
 The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in §10-114(d) to the Executive Director.
 The adopted change is posted on the Energy Commission website.
B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS
Are additional lighting power allowances for ordinance in Table 147-C used? Yes No
Complete the information below if additional lighting power allowances for ordinance requirements are used:
 The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change.
 The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required §10-114(f) to the Executive Director.
C. ACCEPTANCE FORMS
Required Acceptance Tests
Designer: This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, OLTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The N47 Section in the appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.
Enforcement Agency: Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the OLTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.
Certificate of Acceptance Table:
Equipment Requiring Testing Description Number of Luminaires Controlled Location Outdoor Lighting Acceptance Tests
1. Insert OMS for Outdoor Motion Sensor, OLSG for Outdoor Lighting Shut-off Controls, OP for Outdoor Photocontrol, ATS for Astronomical Time Switch, and, STS for Standard (non-astronomical) Time Switch acceptance.

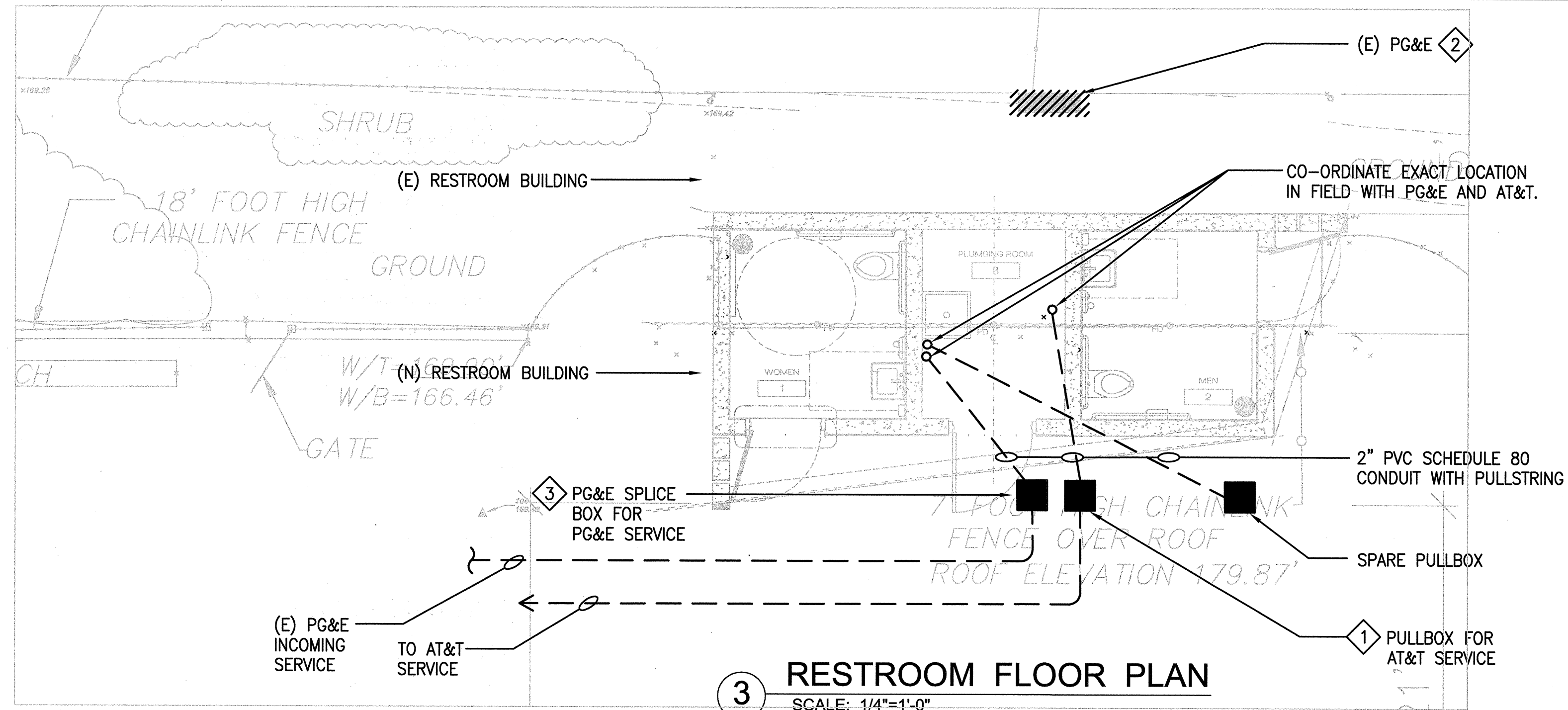
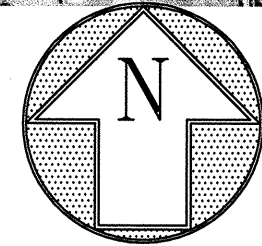
CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C
Project Name: DUPONT TENNIS COURTS RESTROOMS Date: 9/12/2012
ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER
Table:
A Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3) 855.5
B Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)
C Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)
D Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)
E Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)
F Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)
G Total Allowed Wattage = Sum of rows A through F: 855.5
H Total Installed Watts (from Luminaire Schedule, from OLTG-1C Page 2 of 4) 343
Provided that the lighting wattage power allowances listed in rows A through F are identical to the lighting wattage power allowances taken from OLTG-2C Pages 1 through 3, complies if Installed Wattage in row H is less than or equal to the Total Installed Wattage in row G Yes No
NOTES:

OUTDOOR LIGHTING WORKSHEET (Page 1 of 3) OLTG-2C
Project Name: DUPONT TENNIS COURTS RESTROOMS Date: 9/12/2012
A. LIGHTING POWER ALLOWANCE FOR GENERAL HARDSCAPE
Table:
AREA WATTAGE ALLOWANCE (AWA) LINEAR WATTAGE ALLOWANCE (LWA) INITIAL WATTAGE ALLOWANCE TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE
ILLUMINATED HARDSCAPE AREA AWA PER SQUARE FOOT AWA (A X B) PERIMETER LENGTH OF GENERAL HARDSCAPE LWA PER LINEAR FOOT LWA (D X E) IWA (WATTS) C + F + G
185 0.092 17 74.5 0.92 68.5 770 855.5
Enter total into OLTG-1C, Page 4 of 4; Row A: Lighting Power Allowance for General Hardscape: 855.5
 Yes: AWA, LWA, and IWA from Table 147-A was used as appropriate for the Outdoor Lighting Zone
B. SPECIFIC APPLICATION LIGHTING WATTAGE ALLOWANCE PER UNIT LENGTH (Available only for sales frontage)
Table:
DETERMINE WATTAGE ALLOWANCE LUMINAIRE TYPE DESIGN WATTS
A B C D E F G H I J
Specific Lighting Application Linear Feet of Frontage Sales Frontage allowance for OLZ (watts per ft) Wattage Allowance (B x C) Name or Symbol Luminaire Type Luminaire Quantity Watts per Luminaire Design Watts (G x H) Allowed Watts Minimum of D or I
C. SPECIFIC APPLICATION WATTAGE ALLOWANCE FOR ORNAMENTAL LIGHTING
Table:
DETERMINE WATTAGE ALLOWANCE LUMINAIRE TYPE DESIGN WATTS
A B C D E F G H I J
Specific Lighting Application Square feet of Hardscape Ornamental Lighting Allowance for OLZ (watts per ft²) Wattage Allowance (B x C) Name or Symbol Luminaire Type Luminaire Quantity Watts per Luminaire Design Watts (G x H) Allowed Watts Minimum of D or I
Enter total into OLTG-1C, Page 4 of 4; Row C: Specific Application Wattage Allowance for Ornamental Lighting

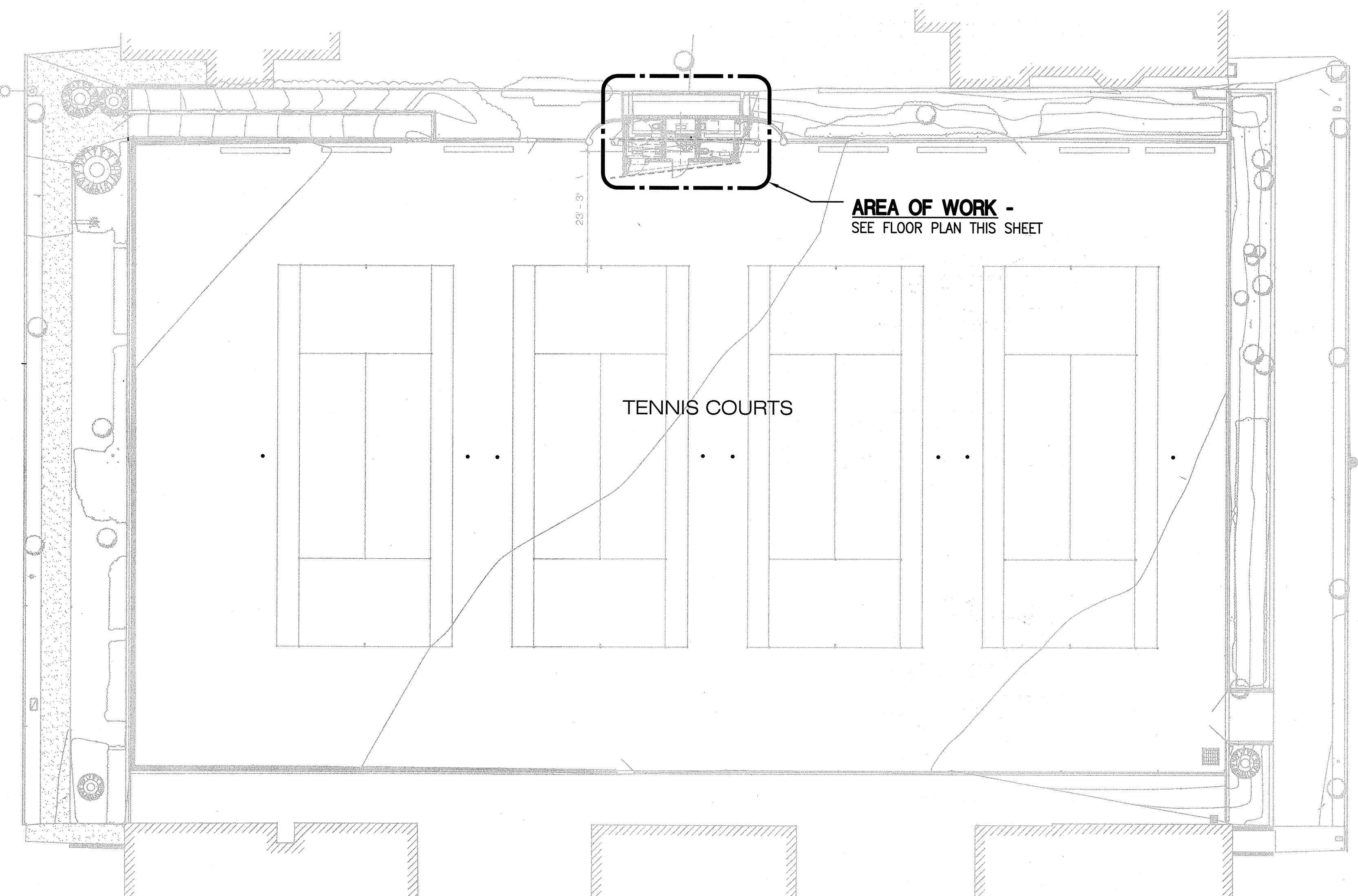
OUTDOOR LIGHTING MANDATORY MEASURES OLTG-MM
 INSTALLED LIGHTING POWER:
Installed lighting power has been determined in accordance with §130(c).
 OUTDOOR LIGHTING:
All permanently installed outdoor luminaires that have lamps rated over 100 watts have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor.
 CUTOFF REQUIREMENTS:
All outdoor luminaires that have lamps rated greater than 175 watts in hardscape areas including parking lots, building entrances, sales and non-sales canopies, and all outdoor sales areas shall be designated cutoff for light distribution.
 OUTDOOR LIGHTING CONTROLS:
All permanently installed outdoor lighting shall be controlled by a photocontrol or astronomical time switch that automatically turns off the outdoor lighting when daylight is available. For any lighting of building facades, parking lots, sales and non-sales canopies, and student pick-up/drop-off zones where two or more luminaires are used, an automatic time switch shall be installed that is capable of turning off the lighting when not needed and reducing the lighting power by at least 50 percent but not exceeding 80 percent or providing continuous dimming through a range that includes 50 percent through 80 percent reduction.



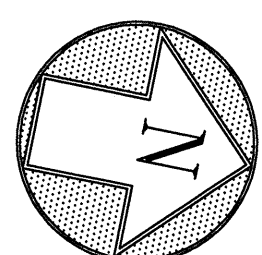
2 SITE LOCATION
SCALE: NTS



3 RESTROOM FLOOR PLAN
SCALE: 1/4"=1'-0"



1 SITE PLAN - DUPONT COURTS
SCALE: 1/16" = 1'-0"



30TH AVENUE

31ST AVENUE

SHEET NOTES

- 1 FURNISH & INSTALL CONDUIT & SERVICE PULLBOX PER AT&T UTILITY REQUIREMENTS. COORDINATE WITH ARNIE FRELIX FOR NEAREST SERVICE POINT. CURRENT ESTIMATE IS APPROXIMATELY 100 FEET.
- 2 SEE ARCHITECTURAL DEMOLITION NOTES FOR (E)PG&E METER REMOVAL; (E)PG&E METER NUMBER IS #P22261.
- 3 CONTRACTOR TO COORDINATE WITH PG&E FOR EXACT REQUIREMENTS FOR PULLBOX AND CONDUIT PRIOR TO INSTALLATION. FIELD INVESTIGATE AND INTERCEPT EXISTING CONDUIT.



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**2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN**

DUPONT TENNIS COURTS RESTROOM
336 31ST AVE. San Francisco, CA 94121
Block No. 1403- Lot No. 007

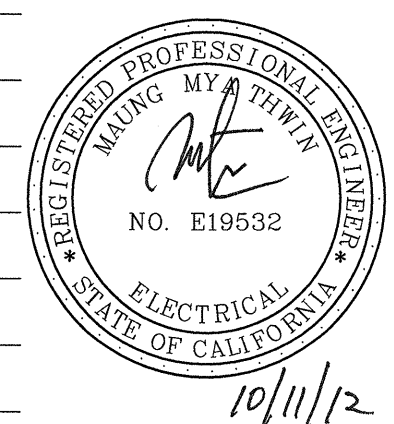
BID SET

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS/ CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028	
DESIGNED BY: <i>CEC</i>	DATE: 9/28/2012
DRAWN BY: <i>CEC</i>	DATE: 9/28/2012
CHECKED BY: <i>PT</i>	DATE: 9/28/2012
APPROVED: <i>Wanda</i> OCT 11 2012	
SECTION MANAGER: <i>M</i>	DATE: 10/12/12
DEPUTY DIVISION MANAGER: <i>M</i>	DATE: 10/12/12
DIVISION MANAGER: <i>M</i>	DATE: 10/12/12

No.	Date	Revisions

Section Head _____
Proj. Mgr. _____
Proj. Arch. _____
Drawn _____
Date _____
Phase _____



Drawing Title

**ELECTRICAL
SITE PLAN**

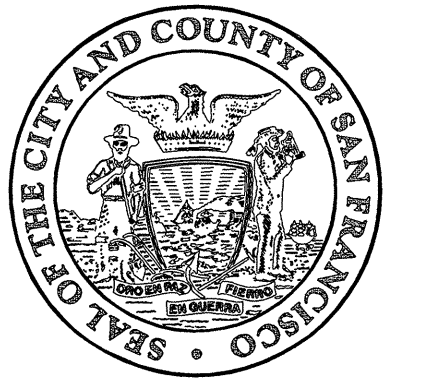
Sheet No.

E-6

Scale AS NOTED

Job No.

3092V-2



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Project _____

**2008 PARK BOND RESTROOM
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DUPONT TENNIS COURTS RESTROOM
336 31ST AVE. San Francisco, CA 94121
Block No. 1403- Lot No. 007

BID SET

Consultant _____

INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS/
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY: CEC 9/28/2012

DRAWN BY: CEC 9/28/2012

CHECKED BY: PJ 9/28/2012

APPROVED
OCT 11 2012

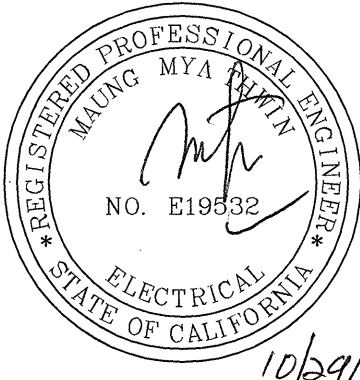
SECTION MANAGER: DATE: 11/1/2012

DEPUTY DIVISION MANAGER: DATE: 11/1/12

DIVISION MANAGER: DATE: 11/1/12

No.	Date	Revisions

Section Head _____
Proj. Mgr. _____
Proj. Arch. _____
Drawn _____
Date _____
Phase _____



**ELECTRICAL
LIGHTING PLAN &
POWER PLAN**

Sheet No. _____

E-7

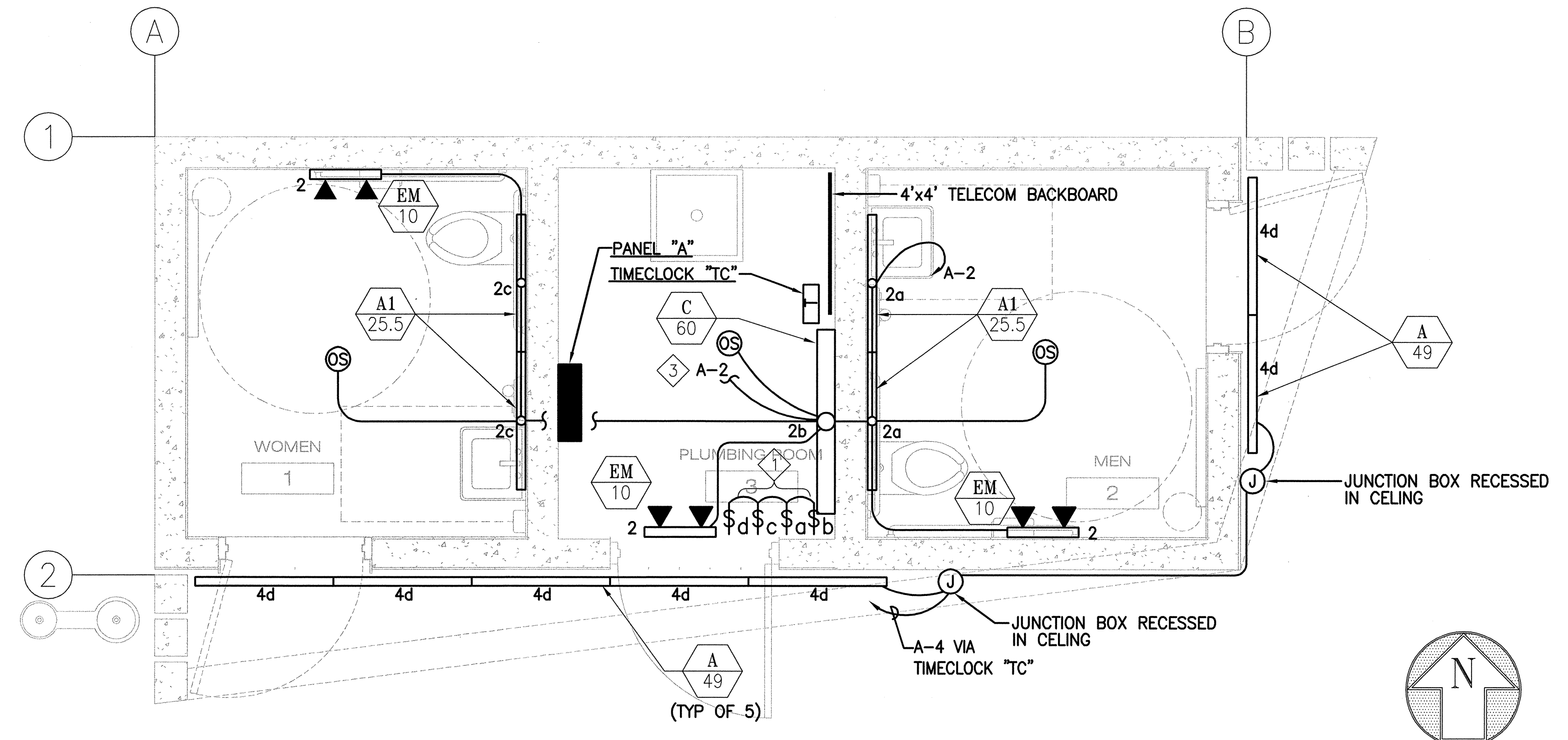
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Job No. _____

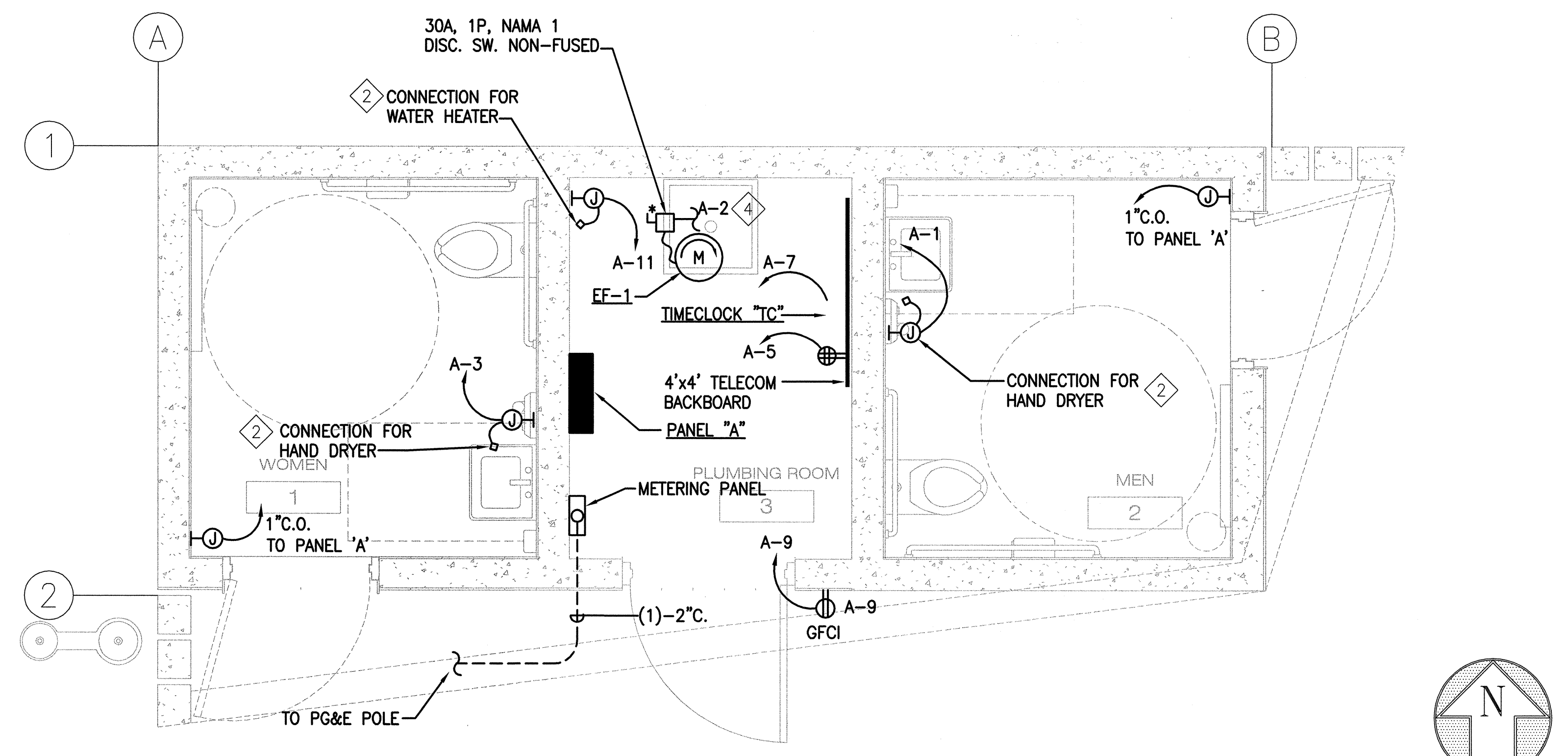
3092V-2

SHEET NOTES

- 1 F/I LOCABLE BOX FOR LIGHTING SWITCHES.
- 2 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.
- 3 SEE CONTINUATION OF LIGHTING CIRCUIT A-2 ON POWER PLAN.
- 4 FROM LIGHTING CIRCUIT A-2. REFER TO LIGHTING PLAN FOR CONTINUATION.



1 LIGHTING PLAN
1/2" = 1'-0"



2 POWER PLAN
1/2" = 1'-0"



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Project

2008 PARK BOND RESTROOM
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CONTEMPORARY DESIGN

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336 31ST AVE. San Francisco, CA 94121
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BID SET

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS/ CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028	
DESIGNED BY: <i>WKL MAC</i>	DATE: 9/28/2012
DRAWN BY: <i>WKL MAC</i>	DATE: 9/28/2012
CHECKED BY: <i>ML</i>	DATE: 9/28/2012
APPROVED	
<i>Mark</i> OCT 11 2012	
SECTION MANAGER: <i>[Signature]</i>	DATE: <i>10/11/12</i>
DEPUTY DIVISION MANAGER: <i>[Signature]</i>	DATE: <i>10/11/12</i>
DIVISION MANAGER: <i>[Signature]</i>	DATE: <i>10/11/12</i>

No.	Date	Revisions

Section Head: T. LEUNG
Proj. Mgr.: M. YEE
Proj. Arch.: T. LEUNG
Drawn: *[Signature]*
Date: SEPTEMBER 2012
Phase: *[Signature]*



Drawing Title

PLUMBING
SCHEDULES

Sheet No.

P-2

Scale NO SCALE

Job No.

3092V-2

		MINIMUM CONNECTION SIZE					PLUMBING FIXTURE SCHEDULE
SYMBOL	FIXTURE	TRAP	WASTE	VENT	CW	HW	DESCRIPTION
WC-1	WATER CLOSET	INTEGRAL	4"	2"	1"	-	ADA COMPLIANT, WALL-MOUNTED, EXPOSED TOP SPUD, TYPE 304 STAINLESS STEEL ELONGATED BOWL, 1.28 GPF, BLOWOUT JET FLUSH, 18-INCH INTEGRAL SEAT HEIGHT, CAP NUTS. ACORN ENGINEERING CO. MODEL NO. DURA-WARE 2100-T-FVBO-ADA-CN-PFS OR APPROVED EQUAL. WALL MOUNTED CARRIER (JR SMITH FIGURE 375Y OR APPROVED EQUAL). HINGED SEAT, OPEN FRONT LESS COVER. (OLSONITE MODEL NO.95SSCT, BENEKE 523 OR APPROVE EQUAL.) TOP SPUD, MANUAL FLUSH VALVE (SLOAN MODEL NO. ROYAL 111-1.28-SG OR APPROVED EQUAL.)
LAV-1	LAVATORY	INTEGRAL	2"	1-1/2"	1/2"	-	ADA COMPLIANT, FRONT ACCESS, TYPE 304 STAINLESS STEEL RECTANGULAR BOWL, OFF-FLOOR, WALL OUTLET, GRID STRAINER W/ CLOSED ELBOW, LAVATORY OVERFLOW. (ACORN ENGINEERING COMPANY MODEL NO. DURA-WARE 1951-1-DMS-9-H1-GE-OF OR APPROVED EQUAL.) ADA COMPLIANT, DECK-MOUNTED, SINGLE SUPPLY METERING SINK FAUCET, 0.35 GPM (CHICAGO FAUCETS MODEL NO. 420-E39VPABCP OR APPROVED EQUAL). COVER PLATE WITH LOCATING PIN AND MOUNTING HARDWARE. (CHICAGO FAUCETS MODEL NO. 240.627.21.1 OR APPROVED EQUAL.) ADA COMPLIANT LAVATORY PIPE INSULATION KIT. (HANDI LAV-GUARD OR APPROVED EQUAL.) INSULATE ALL EXPOSED PIPE, TYP.
MS-1	MOP SINK	INTEGRAL	3"	2"	1/2"	1/2"	ACORN ENGINEERING CO. MODEL NO. PENAL-WARE 1630-TF1-KDG3-KH36-KMH-KWG36-TA OR APPROVED EQUAL. CHICAGO FAUCETS MODEL NO. 835-369CP OR APPROVED EQUAL.
HB-1	HOSE BIBB	INTEGRAL	-	-	1/2"	-	VACUUM BREAKER, JOSAM HYDROSPAN I 71070-90 OR APPROVED EQUAL.
HB-2	HOSE BIBB	INTEGRAL	-	-	1/2"	-	VACUUM BREAKER, MEULLER/B&K MODELS 103-024 AND 108-904RP OR APPROVED EQUAL.

NOTES:

- ALL FIXTURES SHALL BE STAINLESS STEEL. CARRIER SUPPORTS SHALL BE JAY R. SMITH, JOSAM OR APPROVED EQUAL. REFER TO SPECIFICATION 22 00 00 - PLUMBING.
- FLUSH VALVES AND FAUCETS SHALL BE LISTED WITH THE CALIFORNIA ENERGY COMMISSION.
- ADA COMPLIANT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST CALIFORNIA PLUMBING CODE.
- INSTALL PLUMBING FIXTURES AND TRIMS FROM ONE MANUFACTURER FOR UNIFORMITY OF INSTALLATION.

ELECTRIC WATER HEATER SCHEDULE	
SYMBOL	EWH-1
LOCATION	PLUMBING CHASE
MANUFACTURER	BOSCH
MODEL	ARISTON GL4
INPUT-WATTS	1500
RECOVERY AT 90°F RISE	7.0 GPH
STORAGE(GAL.)	3.85
ELECTRIAL DATA	120V/1Ø/60 Hz/12.5 AMPS
WEIGHT (LBS)	17.3
EQUIPMENT SHALL BE FURNISHED WITH THE FOLLOWING MINIMUM FEATURES: UL LISTED ADJUSTABLE THERMOSTATIC CONTROL ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE FURNISH ALL WALL MOUNTING ANCHORS FOR PROPER INSTALLATION INSULATE DHW PIPE	

PLUMBING SPECIALTIES SCHEDULE					
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	TOP CONFIGURATION	REMARKS
FCO	FLOOR CLEANOUT	JAY R. SMITH	Z1400-K-NH-VP	ROUND	ANCHOR FLANGE, NO-HUB OUTLET, VANDAL-PROOF SCREWS.
FD	FLOOR DRAIN	JAY R. SMITH	Z415-B-VP-NH-P-U	6" ROUND	TYPE "B" STRAINER, VANDAL-PROOF SCREWS, NO-HUB OUTLET, 1/2" TRAP PRIMER CONNECTION, HIGH EXTENSION ADAPTER
RD/OD	ROOF DRAIN/OVERFLOW DRAIN	JAY R. SMITH	1310/1080	3" ROUND	-
WCO	WALL CLEANOUT	JAY R. SMITH	ZS1468-VP	ROUND	BRONZE TAPER PLUG, ROUND STAINLESS STEEL COVER, AND VANDAL-PROOF SCREW.
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS, INC.	PR-500 SERIES	-	COMPLIES WITH STATES' LEAD PLUMBING LAW 0.25% MAXIMUM WEIGHTED AVERAGE LEAD CONTENT REQUIREMENT.
WHA	WATER HAMMER ARRESTER	JAY R. SMITH	HYDROTROL 5000 SERIES	-	COMPLIES WITH STATES' LEAD PLUMBING LAW 0.25% MAXIMUM WEIGHTED AVERAGE LEAD CONTENT REQUIREMENT.



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Project

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DEPARTMENT OF PUBLIC WORKS/
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30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY:	MAC	DATE	9/28/2012
DRAWN BY:	MAC	DATE	9/28/2012
CHECKED BY:	ML	DATE	9/28/2012
APPROVED			
Maurice Chee		OCT 11 2012	
SECTION MANAGER:		DATE:	10/10/2012
DEPUTY DIVISION MANAGER:		DATE:	
DIVISION MANAGER:		DATE:	10/10/2012

No.	Date	Revisions

Section Head	T. LEUNG
Proj. Mgr.	M. YEE
Proj. Arch.	T. LEUNG
Drawn	
Date	SEPTEMBER 2012
Phase	



Drawing Title

PLUMBING
SITE PLAN

Sheet No.

P-3

Scale AS SHOWN

Job No.

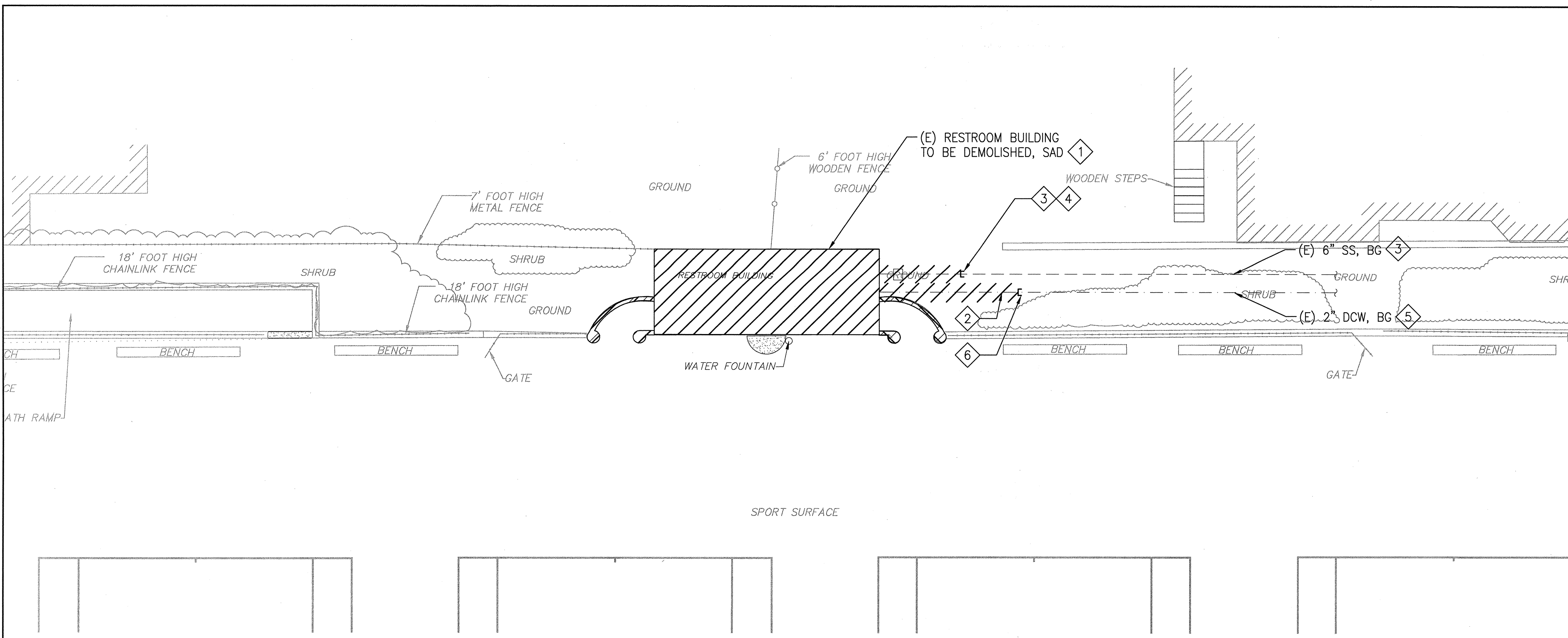
3092V-2

SHEET NOTES:

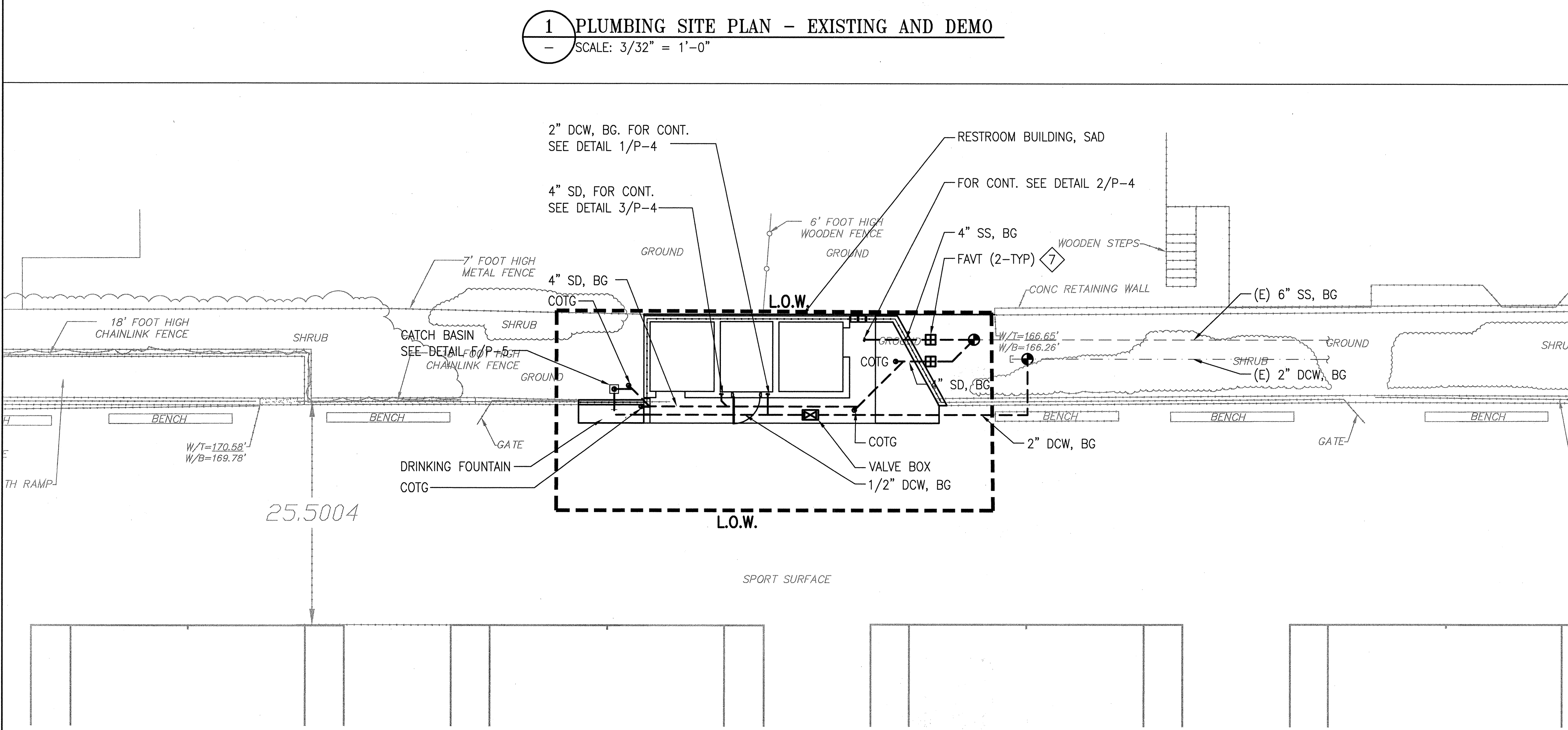
- 1 DEMOLISH ALL (E) PLUMBING FIXTURES AND ASSOCIATED PIPING AND APPURTENANCES.
- 2 DEMOLISH (E) 2" DCW.
- 3 (E) SEWER LINE. VERIFY IN FIELD ACTUAL SEWER LINE LOCATION AND SIZE.
- 4 CAP (E) 6" SEWER TO ACCOMMODATE NEW WORK.
- 5 (E) DCW LINE. VERIFY IN FIELD ACTUAL DCW LINE LOCATION AND SIZE.
- 6 CAP (E) 2" DCW.
- 7 PROVIDE SEWER LINE WITH FRESH AIR VENT TRAP.

GENERAL NOTES:

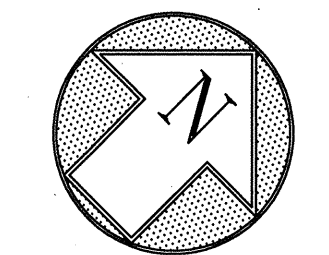
1. ALL DISTANCES ARE BASED UPON THE U.S. SURVEY FOOT AND DECIMALS THEREOF.
2. THE NORTH ORIENTATION AND THE COORDINATES OF THIS DRAWING ARE ASSUMED.
3. SINCE A TITLE INSURANCE POLICY WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY, THE SURVEYOR IS NOT RESPONSIBLE FOR THE OMISSION HEREON OF ANY FACTS SUCH AS, BUT NOT LIMITED TO, THE EXISTENCE OF EASEMENTS, WHICH ARE NORMALLY DISCLOSED BY SUCH A POLICY.

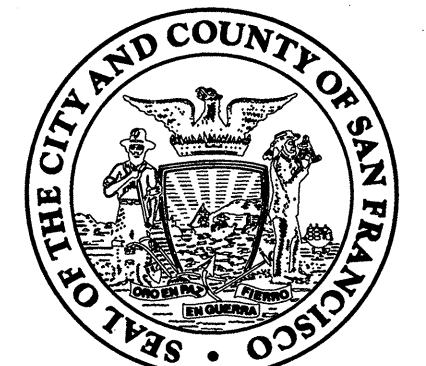


1 PLUMBING SITE PLAN - EXISTING AND DEMO
SCALE: 3/32" = 1'-0"



2 PLUMBING SITE PLAN - NEW WORK
SCALE: 3/32" = 1'-0"





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Project
**2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN**

DUPONT TENNIS COURTS RESTROOM
336 31ST AVE. San Francisco, CA 94121
Block No. 1403- Lot No. 007

BID SET

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS/ CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028	
DESIGNED BY: <i>WHL MAC</i>	DATE: 9/28/2012
DRAWN BY: <i>WHL MAC</i>	DATE: 9/28/2012
CHECKED BY: <i>WHL</i>	DATE: 9/28/2012
APPROVED <i>WHL</i> OCT 11 2012	
SECTION MANAGER:	DATE:
DEPUTY DIVISION MANAGER:	DATE:
DIVISION MANAGER:	DATE:

No.	Date	Revisions

Section Head T. LEUNG
Proj. Mgr. M. YEE
Proj. Arch. T. LEUNG
Date SEPTEMBER 2012
Phase



Drawing Title

PLUMBING
FLOOR AND ROOF
PLANS

Sheet No.

P-4

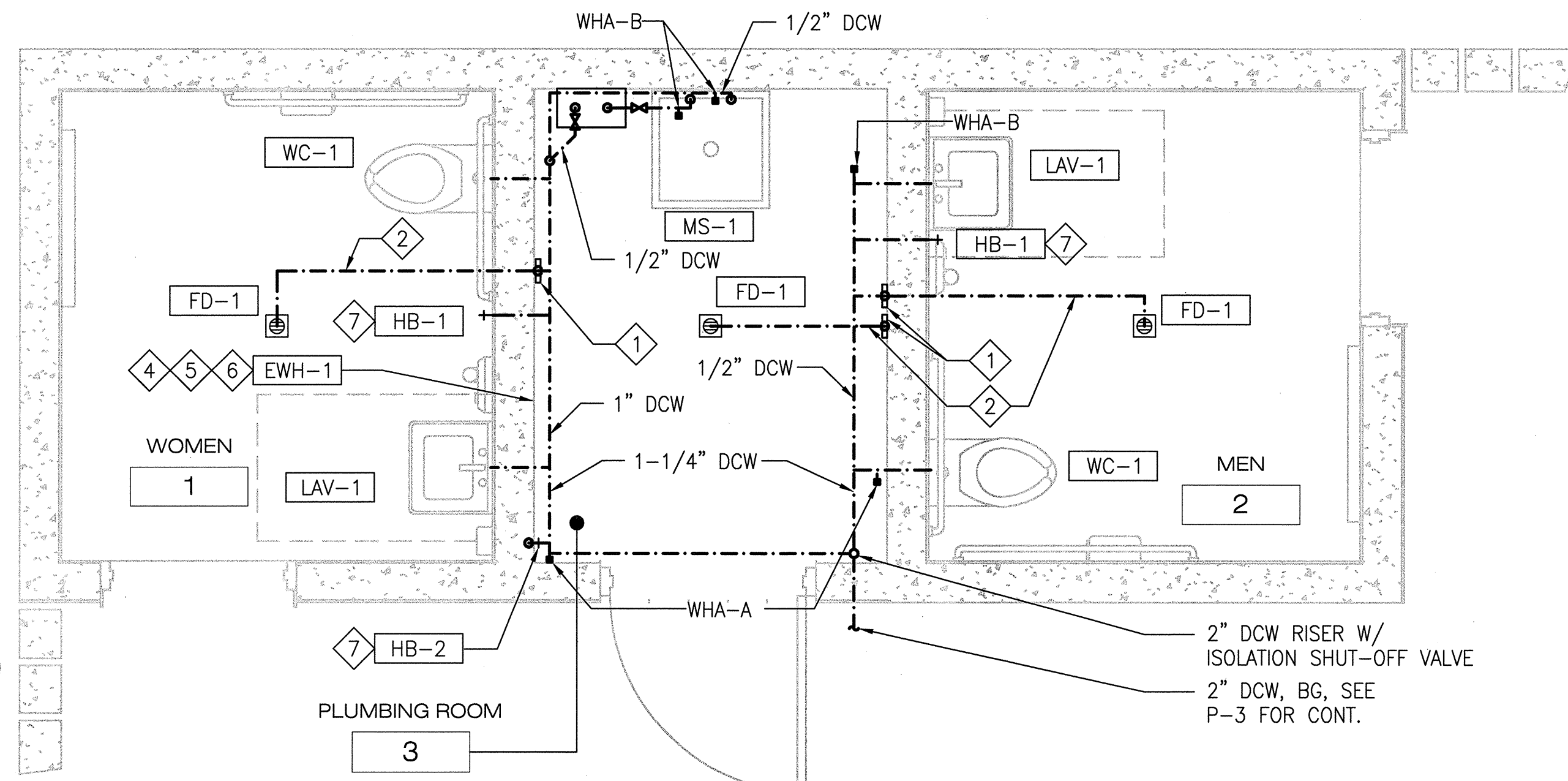
Job No.

AS SHOWN

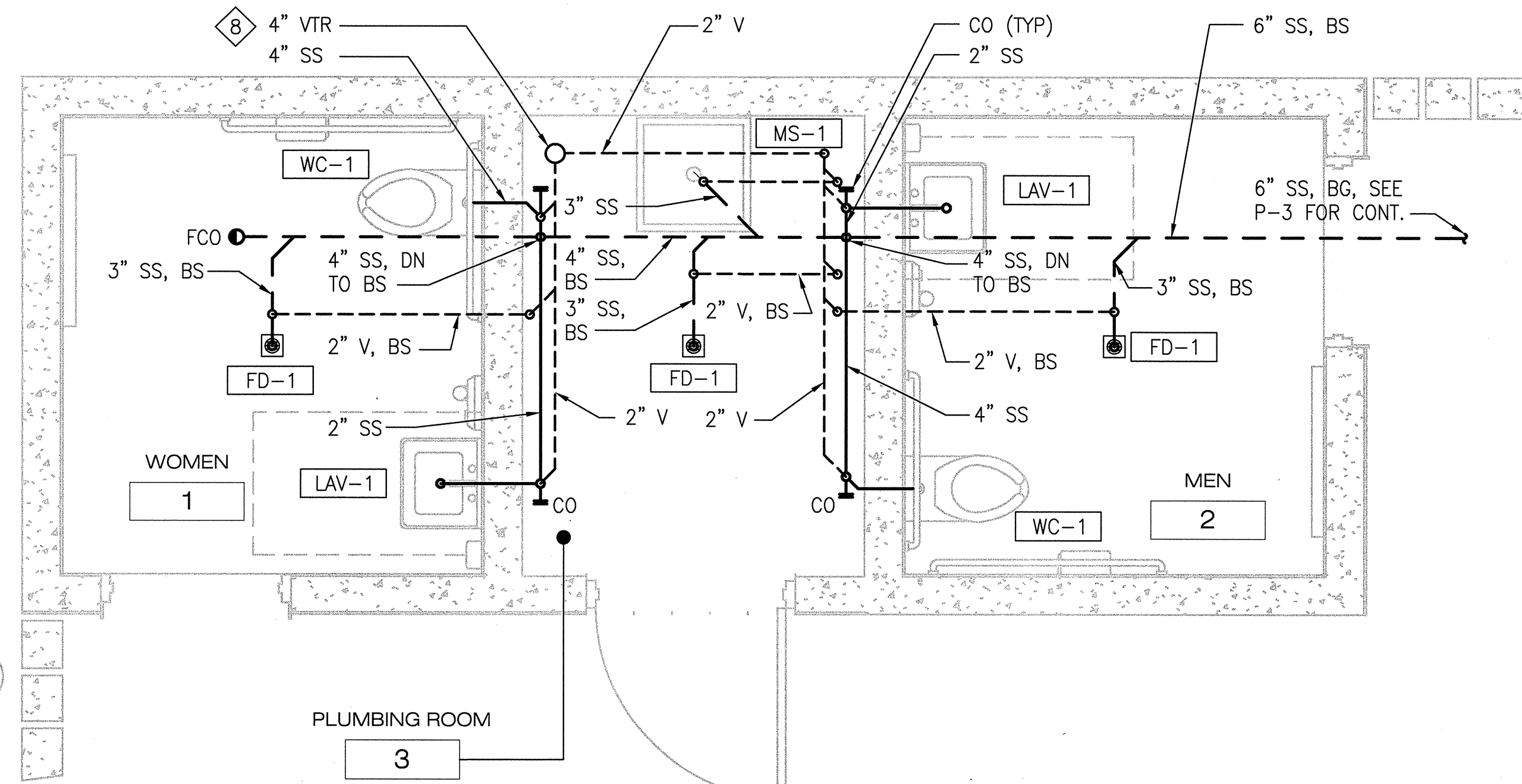
3092V-2

SHEET NOTES:

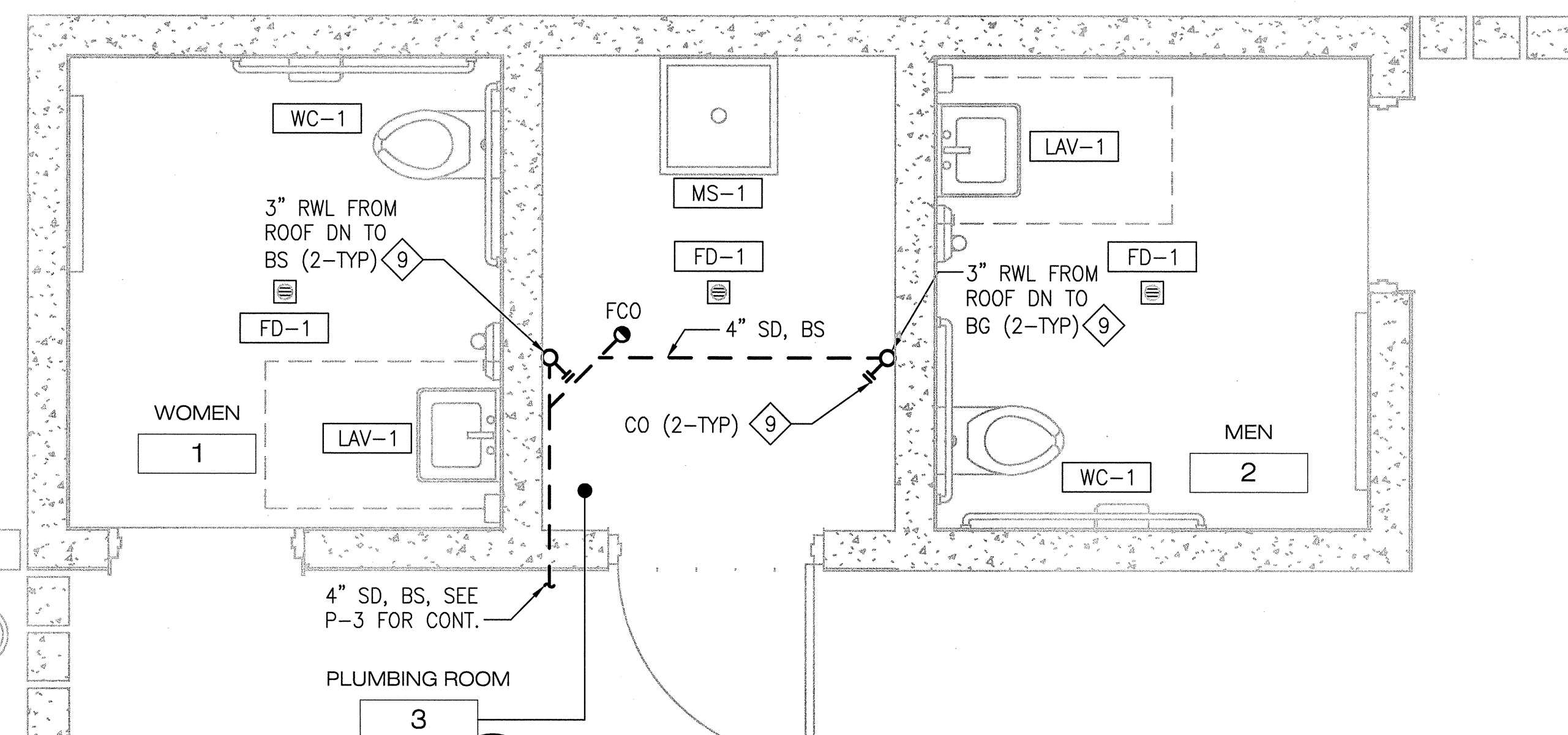
- ① PROVIDE FLOOR DRAIN TRAP PRIMER WITH BALL VALVE.
- ② 1/2" DCW DOWN TO BELOW SLAB TO FLOOR DRAIN TRAP PRIMER CONNECTION. SEE DETAIL A/P-5. SAD FOR EXACT LOCATION OF FLOOR DRAIN.
- ③ PROVIDE 2" DCW WITH SHUT-OFF VALVE AT RISER.
- ④ PROVIDE ELECTRIC WATER HEATER, EWH-1, COORDINATE EXACT LOCATION WITH ARCHITECT. EWH SHALL BE PROVIDED WITH MOUNTING KIT. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR MOUNTING INSTRUCTIONS.
- ⑤ PROVIDE 1/2" DCW AND 1/2" DHW CONNECTIONS TO EWH-1. INSULATE ALL DHW PIPING.
- ⑥ PROVIDE 3/4" TEMPERATURE & PRESSURE RELIEF VALVE WITH AN AIR GAP AND SHALL DISCHARGE TO MOP SINK, MS-1.
- ⑦ SAD FOR EXACT LOCATION OF HOSE BIBB, HB.
- ⑧ SEE B/P-6 FOR VTR DETAIL.
- ⑨ RAINWATER LEADER, SAD FOR EXACT LOCATION. FOR DETAIL, SEE C/P-5.



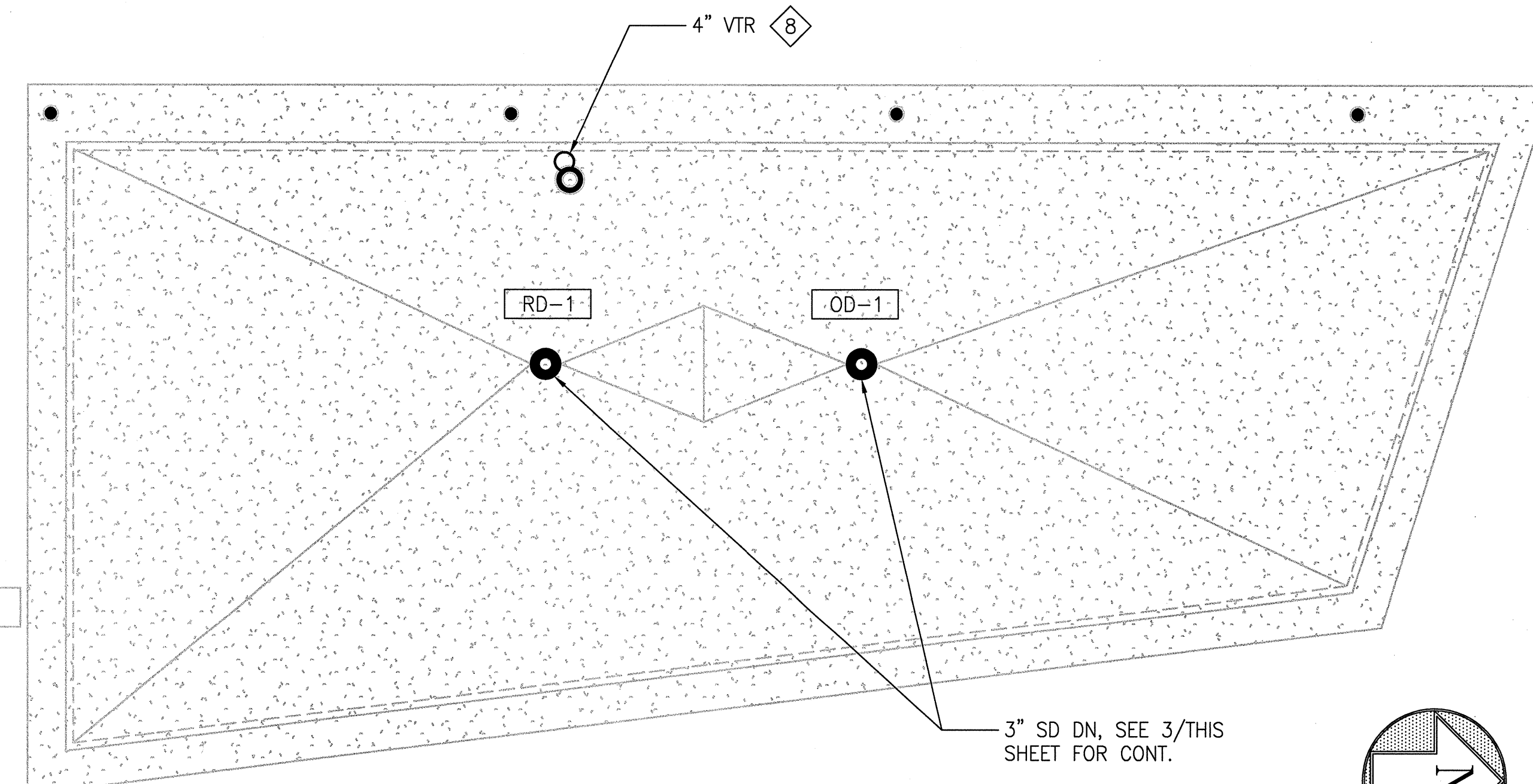
1 DCW AND DHW PIPING PLAN
SCALE: 1/2" = 1'-0"



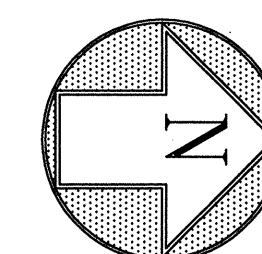
2 SEWER AND VENT PIPING PLAN
SCALE: 1/2" = 1'-0"



3 STORM DRAIN PLAN
SCALE: 1/2" = 1'-0"



4 ROOF PLAN
SCALE: 1/2" = 1'-0"





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DRAWN BY: <i>MAC</i>	DATE: 9/28/2012
CHECKED BY: <i>ML</i>	DATE: 9/28/2012
APPROVED	
<i>Handwritten Signature</i> OCT 11 2012	
SECTION MANAGER: <i>Handwritten Signature</i>	DATE: 10/11/2012
DEPUTY DIVISION MANAGER: <i>Handwritten Signature</i>	DATE: <i>Handwritten</i>
DIVISION MANAGER: <i>Handwritten Signature</i>	DATE: 10/11/2012

No.	Date	Revisions

Section Head: T. LEUNG
Proj. Mgr.: M. YEE
Proj. Arch.: T. LEUNG
Drawn: *Handwritten*
Date: SEPTEMBER 2012
Phase: *Handwritten*



Drawing Title

PLUMBING
DETAILS

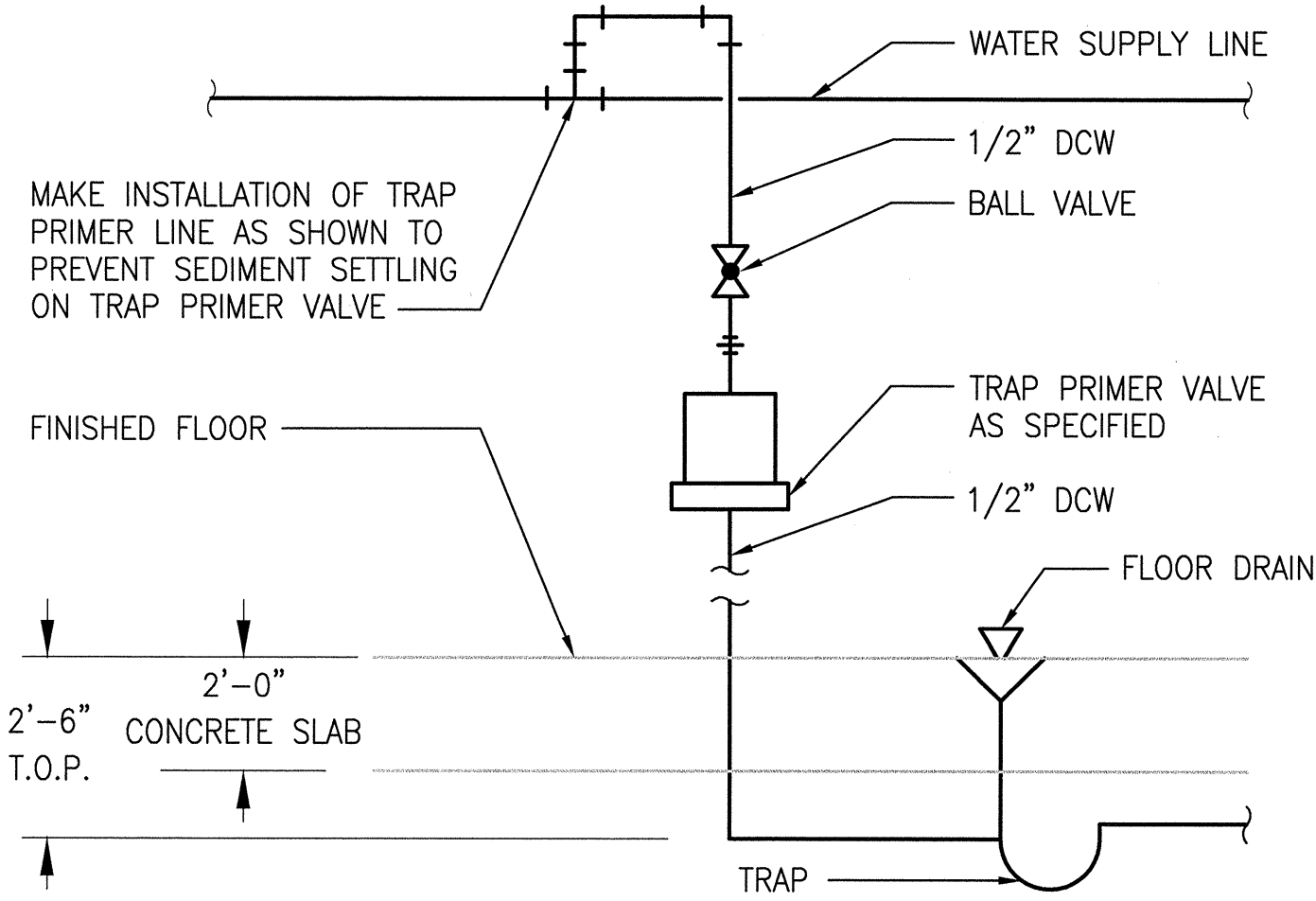
Sheet No.

P-5

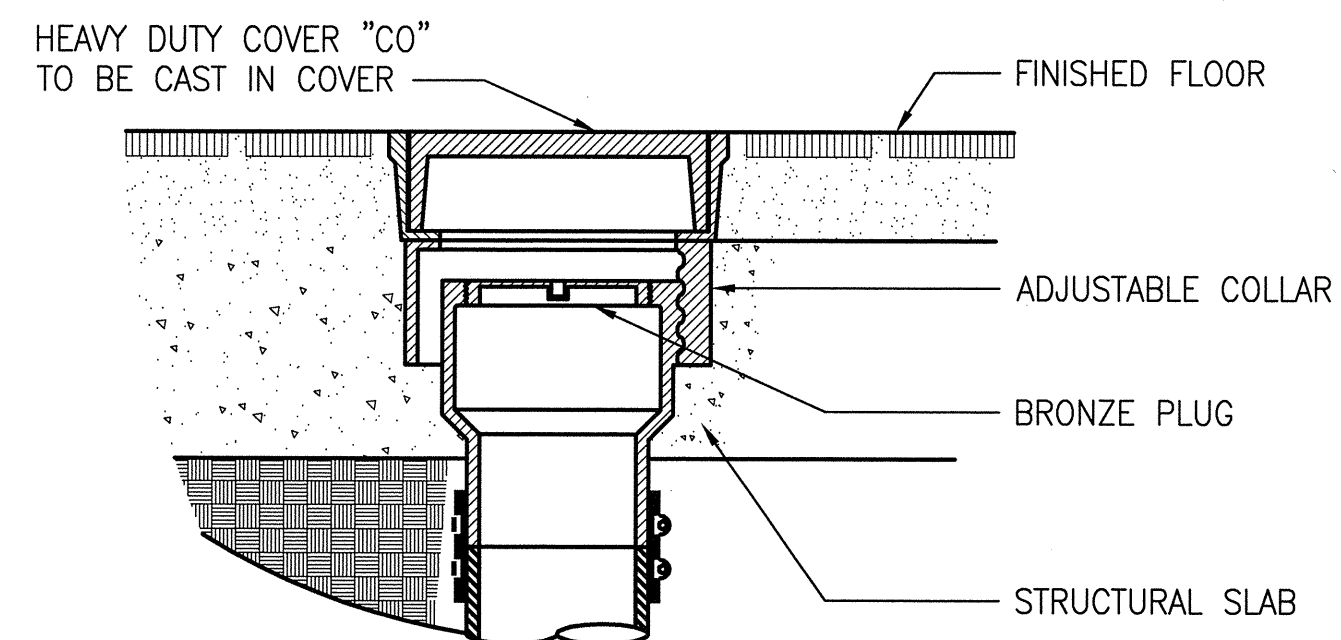
Scale: NO SCALE

Job No.

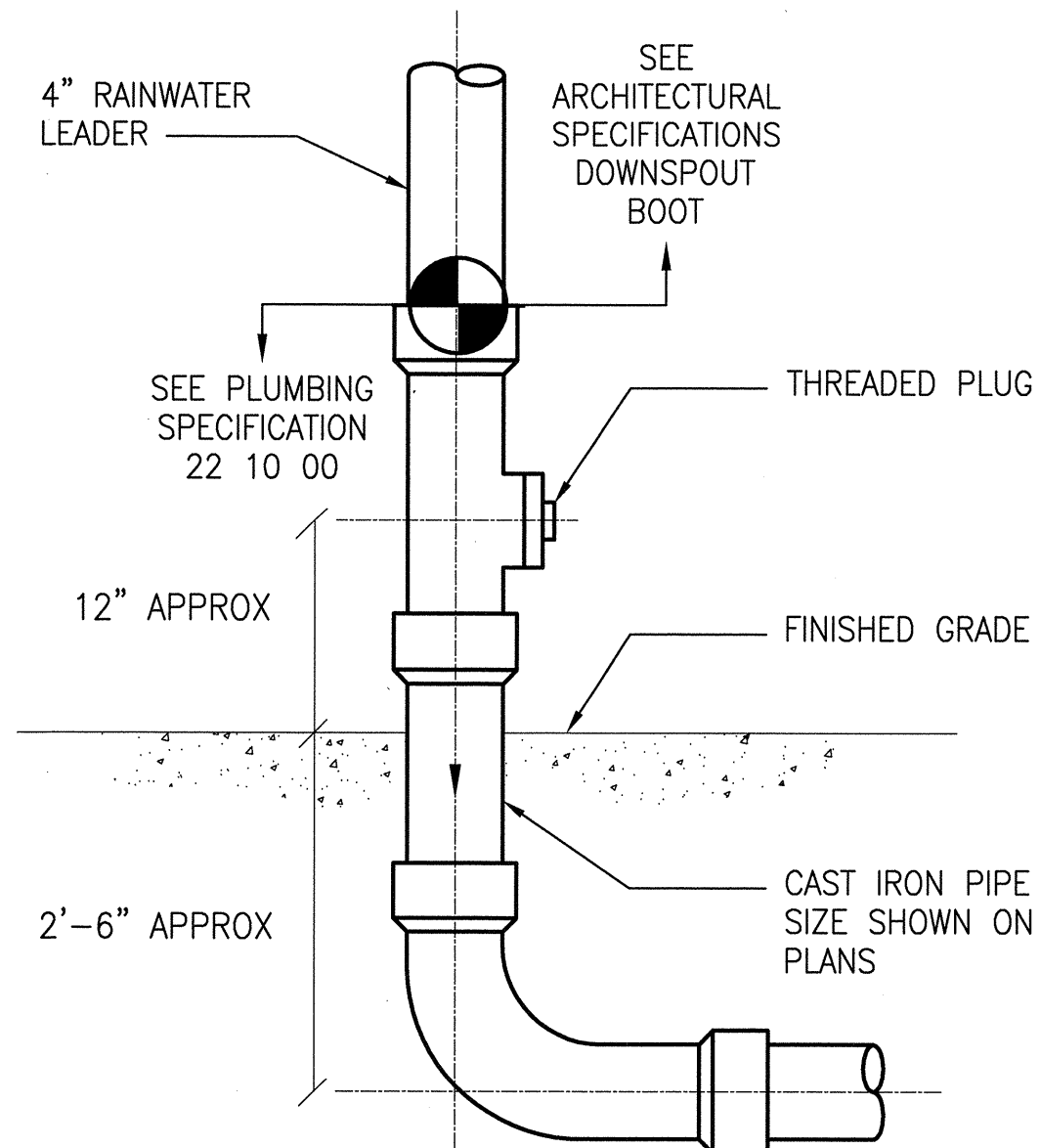
3092V-2



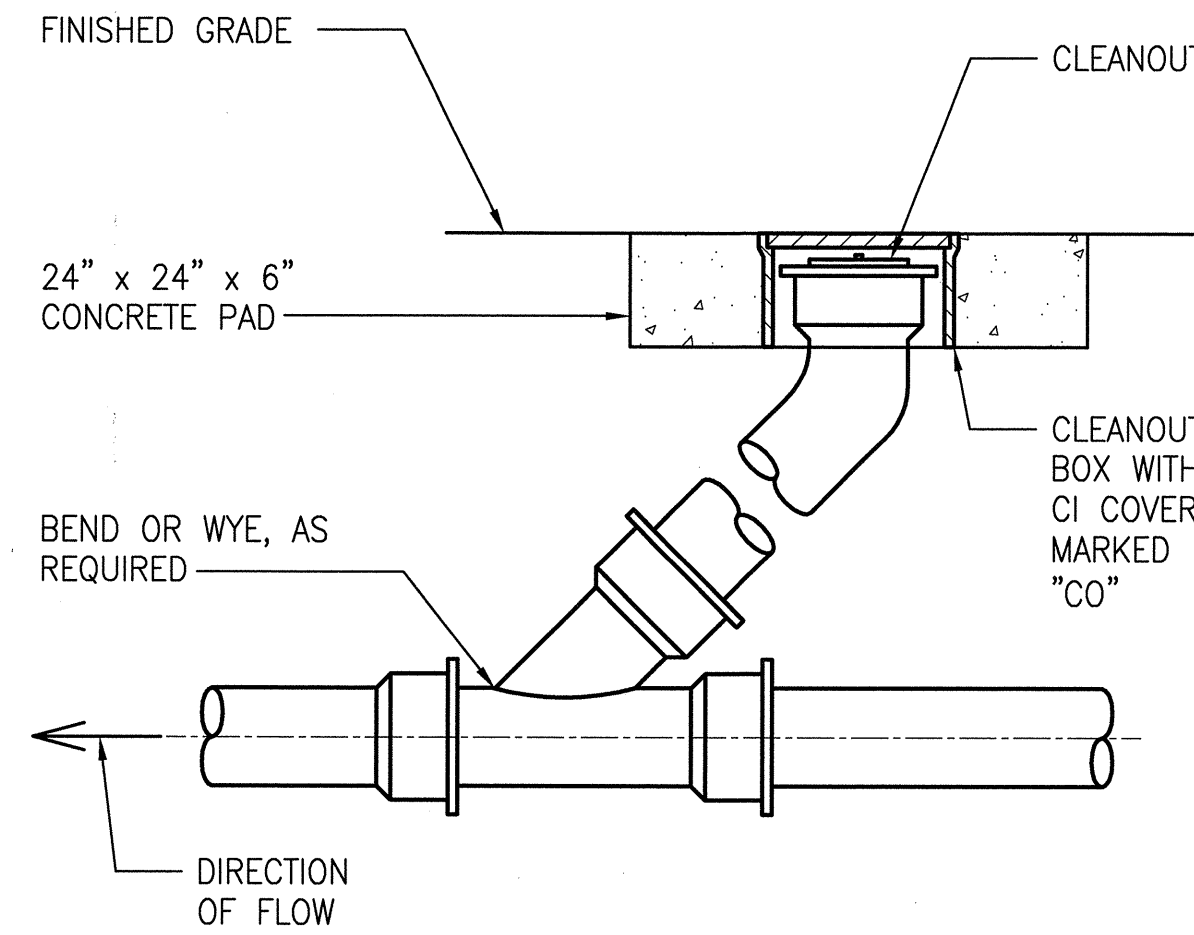
A FLOOR DRAIN TRAP PRIMER VALVE
SCALE: NO SCALE



B INTERIOR CLEANOUT ASSEMBLY
SCALE: NO SCALE

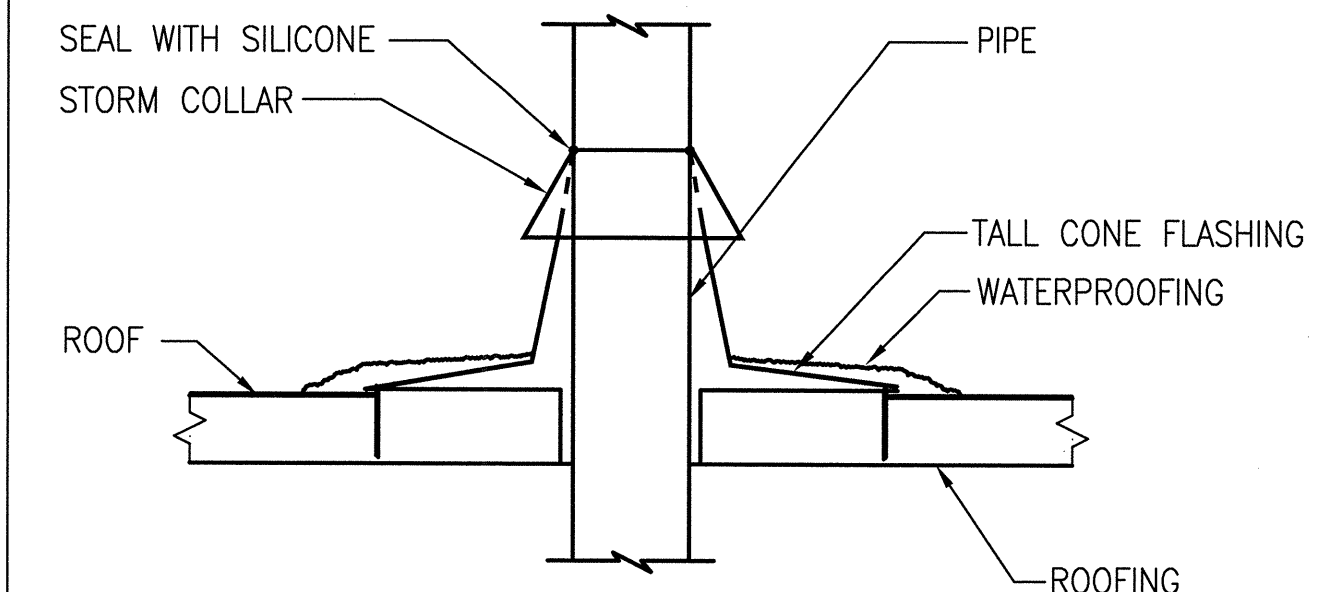


C ABOVE GRADE EXTERIOR CLEANOUT
SCALE: NO SCALE

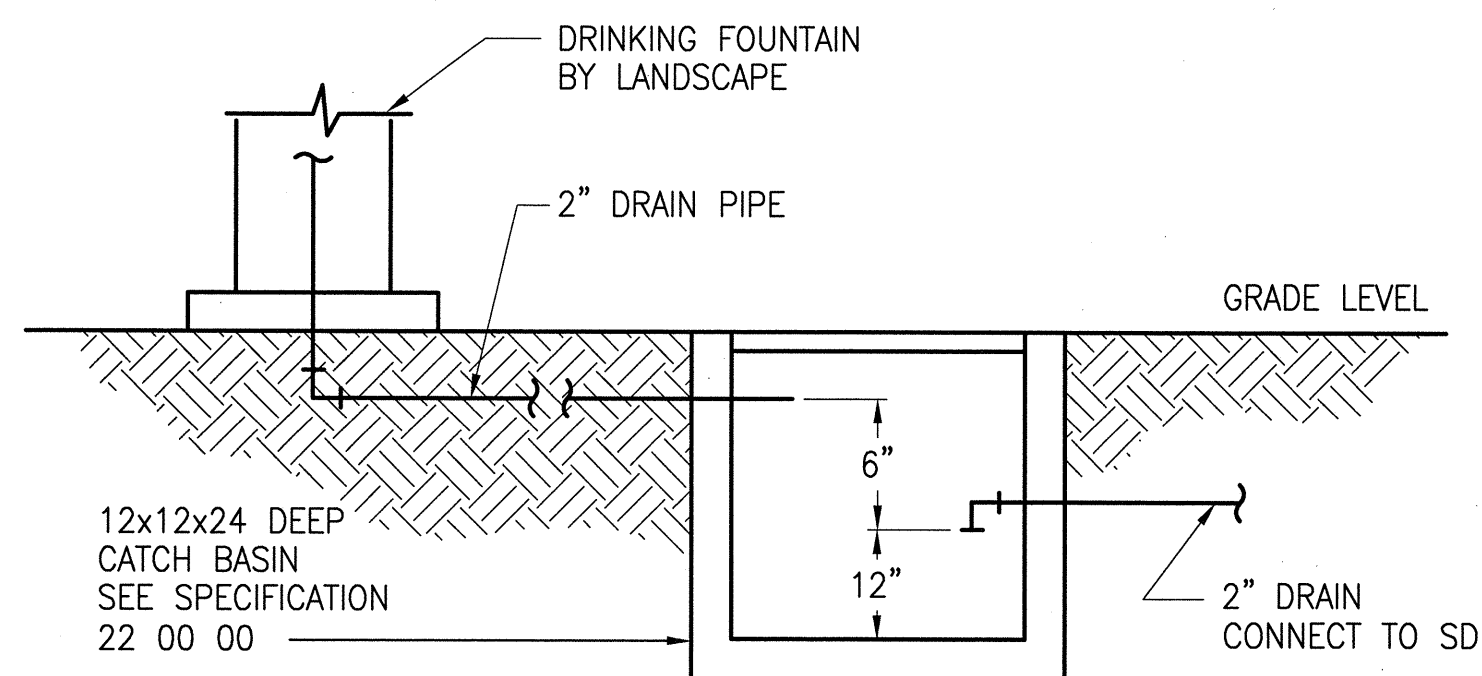


D EXTERIOR CLEANOUT ASSEMBLY
SCALE: NO SCALE

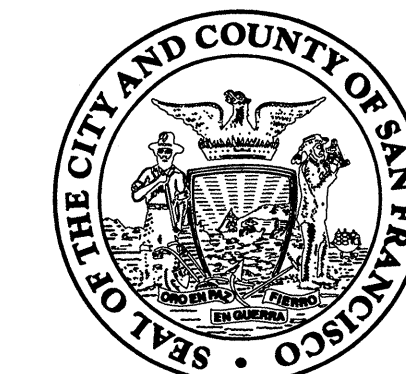
NOTE:
CLEANOUTS TO BE INSTALLED
ON SIDE WALKS AND PATHWAYS
SHALL BE SIMILAR TO DETAIL



E VENT THRU ROOF DETAIL
SCALE: NO SCALE



F CATCH BASIN DETAIL
SCALE: NO SCALE



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SAN FRANCISCO, CA 94102-6028

DESIGNED BY:	JAC MAC	DATE	9/28/2012
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APPROVED
Wanda **OCT 11 2012**

SECTION MANAGER: DATE:
DEPUTY DIVISION MANAGER: DATE:
DIVISION MANAGER: DATE:

No.	Date	Revisions

Section Head
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Proj. Mgr.
M. YEE
Proj. Arch.
T. LEUNG
Drawn
Date
SEPTEMBER 2012
Phase



Drawing Title

**MECHANICAL
ABBREVIATIONS,
SYMBOLS AND LEGEND
AND DRAWING LIST**

Sheet No.

M-1

Scale NO SCALE

Job No.

3092V-2

ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
AC	AIR CONDITIONING	HV	HEATING & VENTILATING
AD	ACCESS DOOR	HVAC	HEATING, VENTILATING & AIR CONDITIONING
AFP	ABOVE FINISHED FLOOR	HZ	HERTZ
AMPS	AMPERES	ID	INSIDE DIAMETER or INSIDE DIMENSION
AP	ACCESS PANEL	IN	INCH
APD	AIR PRESSURE DROP	KW	KILOWATTS
ARCH	ARCHITECT OR ARCHITECTURAL	LBS	POUNDS
ASSOC	ASSOCIATED	LDB	LEAVING DRY BULB
ASSY	ASSEMBLY	LF	LINEAR FEET
AUTO	AUTOMATIC	LWB	LEAVING WET BULB
AV	AIR VENT	LVL	LEVEL
AVG	AVERAGE	LWT	LEAVING WATER TEMPERATURE
BDD	BACKDRAFT DAMPER	MAX	MAXIMUM
BEL	BELOW	MBH	THOUSAND BTU PER HOUR
BFF	BELOW FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPACITY
BHP	BRAKE HORSEPOWER	MCC	MOTOR CONTROL CENTER
BLDG	BUILDING	MECH	MECHANICAL
BTU	BRITISH THERMAL UNIT	MFR	MANUFACTURER
BTUH	BRITISH THERMAL UNIT PER HOUR	MFS	MAXIMUM FUSE SIZE
CALCS	CALCULATIONS	MIN	MINIMUM
CAP	CAPACITY	MISC	MISCELLANEOUS
CER	CEILING EXHAUST REGISTER	MTD	MOUNTED
CFH	CAPPED FOR FUTURE	(N)	NEW
CFM	CUBIC FEET PER HOUR	NA	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED or NOISE CRITERIA
CFS	CUBIC FEET PER SECOND	NFA	NET FREE AREA
CLG	CEILING	NIC	NOT IN CONTRACT
COL	COLUMN	NO	NORMALLY OPEN
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECT or CONNECTION	OA	OUTSIDE AIR
CONT	CONTINUATION	OBD	OPPOSED BLADE DAMPER
CRR	CEILING RETURN REGISTER	OD	OUTSIDE DIAMETER or OUTSIDE DIMENSION
CTE	CONNECT TO EXISTING	OPER	OPERATING
CU	COMPRESSOR UNIT	OPP	OPPOSITE
CW	COLD WATER	OSA	OUTSIDE AIR
DB	DECIBELS or DRY BULB	OV	OUTLET VELOCITY
DER	DUCT-MOUNTED EXHAUST REGISTER	PD	PRESSURE DROP
DIA	DIAMETER	PH	PHASE
DIM	DIMENSION	PSI	POUNDS PER SQUARE INCH
DIV	DIVISION	PSIG	POUNDS PER SQUARE INCH GAUGE
DN	DOWN	QTY	QUANTITY
DTL	DETAIL	RA	RETURN AIR
DD	DUCT SMOKE DETECTOR	RAG	RETURN AIR GRILLE
DSD	DUCT SMOKE DETECTOR	REF	REFERENCE
DWG	DRAWING	REQD	REQUIRED
(E)	EXISTING	RM	ROOM
EA	EACH or EXHAUST AIR	RPM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EDB	ENTERING DRY BULB	SAD	SEE ARCHITECTURAL DRAWING
EER	EMERGENCY EFFICIENCY RATIO	SAR	SUPPLY AIR REGISTER
EFF%	EFFICIENCY (PERCENTAGE)	SCC	SENSIBLE COOLING CAPACITY
ELEC	ELECTRIC or ELECTRICAL	SCHED	SCHEDULE
EL	ELEVATION	SECT	SECTION
EMGY	EMERGENCY	SF	SQUARE FEET
ENGR	ENGINEER	SHT	SHEET
EQ	EQUAL	SIM	SIMILAR
EQPT	EQUIPMENT	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SPECS	SPECIFICATIONS
EWB	ENTERING WATER BULB	SQ	SQUARE
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
(F)	FUTURE	STD	STANDARD
*F	DEGREE FAHRENHEIT	STRUCT	STRUCTURAL
FD	FIRE DAMPER	SYST	SYSTEM
FF	FINISHED FLOOR	TCC	TOTAL COOLING CAPACITY
FFE	FINISHED FLOOR ELEVATION	TCP	TEMPERATURE CONTROL PANEL
FIN	FINISHED	TDH	TOTAL DYNAMIC HEAD
FLA	FULL LOAD AMPS	TEMP	TEMPERATURE
FLR	FLOOR	TG	TRANSFER GRILLE
FPI	FINS PER INCH	TP	TOTAL PRESSURE
FPM	FEET PER MINUTE	TYP	TYPICAL
FPS	FEET PER SECOND	UON	UNLESS OTHERWISE NOTED
FT	FEET	V	VOLTS
FTWG	FEET OF WATER, GAUGE PRESSURE	VD	VOLUME DAMPER
GA	GAUGE	VEL	VELOCITY
GAL	GALLONS	VIF	VERIFY IN FIELD
GC	GENERAL CONTRACTOR	VOL	VOLUME
GEN	GENERAL	W/	WITH
GPH	GALLONS PER HOUR	W	WATTS
GPM	GALLONS PER MINUTE	WC	WATER COLUMN
GSM	GALVANIZED SHEET METAL	WER	WALL EXHAUST REGISTER
HD	HEAD	WPD	WATER PRESSURE DROP
HHWR	HEATING HOT WATER RETURN	WRR	WALL RETURN REGISTER
HHWS	HEATING HOT WATER SUPPLY	WT	WEIGHT
HORIZ	HORIZONTAL	WSR	WALL SUPPLY REGISTER
HP	HORSEPOWER		
HR	HOUR		

SYMBOLS AND LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		DETAIL TAG
	DRAWING NUMBER		
	EQUIPMENT NUMBER		EQUIPMENT TAG
	EQUIPMENT TYPE		
	THERMOSTAT		CARBON DIOXIDE SENSOR
	POINT OF CONNECTION		SUPPLY AIR DUCT DOWN
	SUPPLY AIR DUCT DOWN		SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT UP AND DOWN		RETURN AIR DUCT UP AND DOWN
	RETURN AIR DUCT DOWN		RETURN AIR DUCT UP
	RETURN AIR DUCT UP AND DOWN		EXHAUST AIR DUCT UP AND DOWN
	EXHAUST AIR DUCT DOWN		EXHAUST AIR DUCT UP
	CEILING SUPPLY DIFFUSER NUMBER AND DIRECTION OF BLOWS INDICATED BY ARROWS		EXHAUST AIR DUCT UP
	12"φ--(NECK SIZE) 1000--(CFM)		EXHAUST AIR DUCT UP
	12"φ--(NECK SIZE) 1000--(CFM)		RETURN GRILLE
	12"φ--(NECK SIZE) 1000--(CFM)		EXHAUST GRILLE
	RECTANGULAR DUCTWORK DIMENSION VIEWED x DEPTH		RECTANGULAR DUCTWORK WITH ACOUSTICAL LINING (INSIDE) DIMENSION VIEWED x (INSIDE) DEPTH, UON
	RECTANGULAR DUCTWORK WITH ACOUSTICAL LINING (INSIDE) DIMENSION VIEWED x (INSIDE) DEPTH, UON		ROUND DUCTWORK INSIDE DIAMETER, UON
	ROUND DUCTWORK INSIDE DIAMETER, UON		FLEXIBLE DUCT OR FLEXIBLE CONNECTION
	FLEXIBLE DUCT OR FLEXIBLE CONNECTION		BRANCH DUCTWORK SPLIT WITH 6 INCH WIDTH AND MINIMUM R = WIDTH OF BRANCH DUCT DOWNSTREAM
	TURNING VANES AIRFOIL TYPE ONLY (ATV)		RECTANGULAR DUCT TAKEOFF
	RECTANGULAR DUCT TAKEOFF		ROUND DUCT TAKEOFF WITH CONICAL TAP
	VOLUME DAMPER		FIRE DAMPER WITH ACCESS PANEL
	FIRE DAMPER WITH ACCESS PANEL		COMBINATION FIRE & SMOKE DAMPER WITH ACCESS PANEL
	COMBINATION FIRE & SMOKE DAMPER WITH ACCESS PANEL		SMOKE DAMPER WITH ACCESS PANEL
	SMOKE DAMPER WITH ACCESS PANEL		DUCT TRANSITION
	DUCT TRANSITION		RECTANGULAR DUCT TO ROUND DUCT TRANSITION
	RECTANGULAR DUCT TO ROUND DUCT TRANSITION		ACCESS PANEL
	ACCESS PANEL		EXISTING DUCTWORK
	EXISTING DUCTWORK		EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO BE REMOVED		INCLINED DROP IN DIRECTION OF AIR FLOW
	INCLINED DROP IN DIRECTION OF AIR FLOW		INCLINED RISE IN DIRECTION OF AIR FLOW
	INCLINED RISE IN DIRECTION OF AIR FLOW		



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Section Head T. LEUNG
Proj. Mgr. M. YEE
Proj. Arch. T. LEUNG
Date SEPTEMBER 2012
Phase



Drawing Title

MECHANICAL
FLOOR PLAN,
SCHEDULES AND
GENERAL NOTES

Sheet No.

M-2

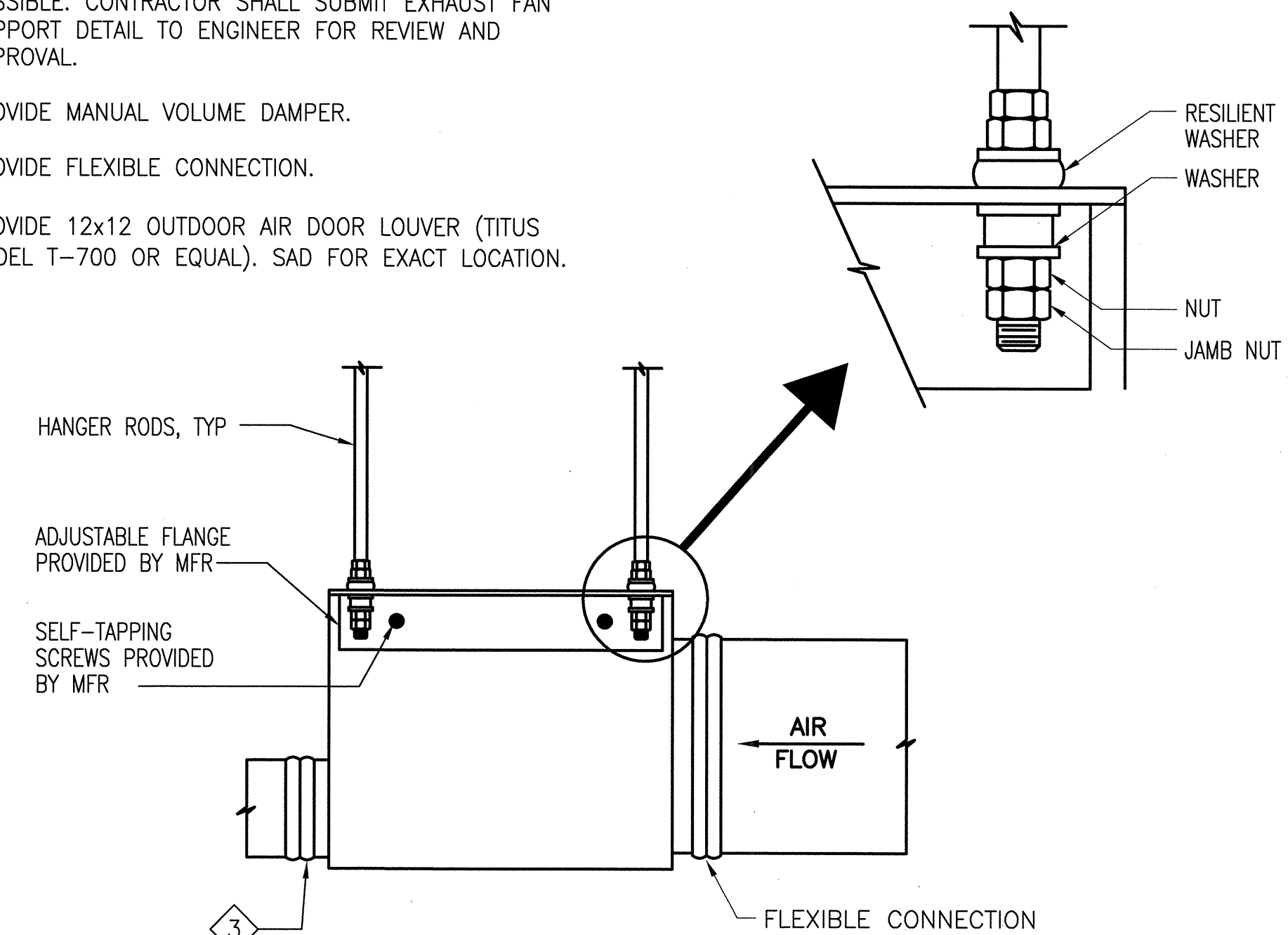
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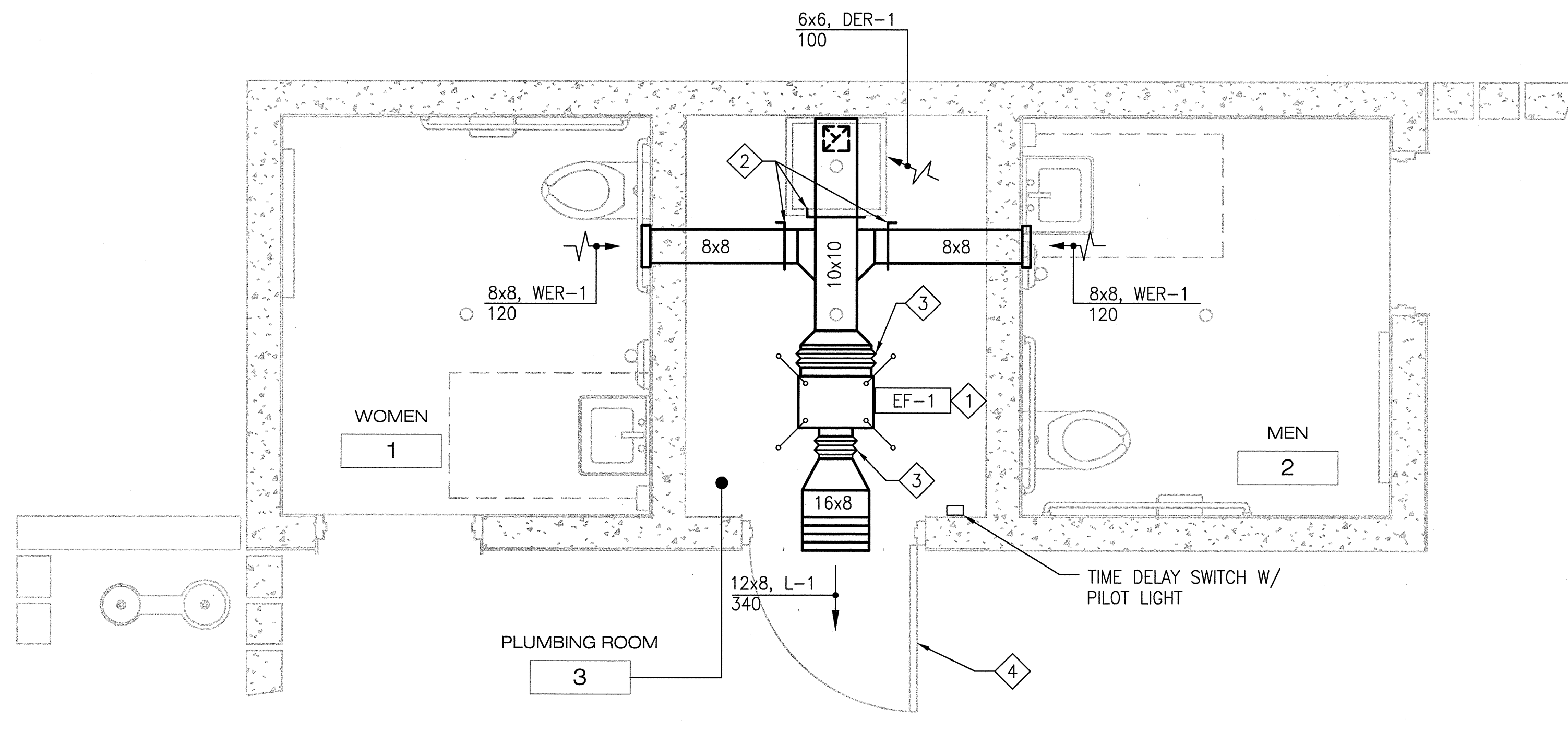
3092V-2

SHEET NOTES:

- 1 EXHAUST FAN, EF-1, SHALL BE PROVIDED WITH MOUNTING SUPPORTS AND INSTALL AS HIGH AS POSSIBLE. CONTRACTOR SHALL SUBMIT EXHAUST FAN SUPPORT DETAIL TO ENGINEER FOR REVIEW AND APPROVAL.
- 2 PROVIDE MANUAL VOLUME DAMPER.
- 3 PROVIDE FLEXIBLE CONNECTION.
- 4 PROVIDE 12x12 OUTDOOR AIR DOOR LOUVER (TITUS MODEL T-700 OR EQUAL). SAD FOR EXACT LOCATION.

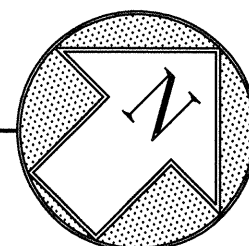


1 EF SUPPORT DETAIL
SCALE: NO SCALE



MECHANICAL FLOOR PLAN

SCALE: 1/2" = 1'-0"



EXHAUST FAN SCHEDULE

FAN TAG	SYSTEM	UNIT LOCATION	FAN CAPACITY				MOTOR				MANUFACTURER AND MODEL NO.	APPROX. WEIGHT (LBS)	REMARKS	
			CFM	RPM	ESP "WC	TYPE	MATERIAL	WATTS	AMPS	PH				HZ
EF-1	EXHAUST	PLUMBING CHASE	340	1,000	0.375	INLINE	GALVANIZED STEEL	135	1.87	1	60	GREENHECK CSP-A410	50	① THRU ⑦

EQUIPMENT SHALL BE FURNISHED WITH THE FOLLOWING MINIMUM FEATURES:

- | | | |
|--|--|----------------------------------|
| ① FAN SHALL BEAR AMCA CERTIFIED RATING SEALS FOR BOTH SOUND AND AIR PERFORMANCE, AND SHALL BE UL LISTED. | ③ INTERLOCK FAN WITH LIGHT CIRCUIT OPERATION SEQUENCE AS FOLLOWS:
(A) LIGHT ON IMMEDIATELY, FAN IS ON WITHIN 15 SECONDS.
(B) LIGHT OFF IMMEDIATELY, FAN IS FIELD ADJUSTABLE TO RUN FROM 0 TO 10 MINUTES. | ⑦ NEMA 12 DISCONNECT SWITCH. |
| ② MAXIMUM SOUND LEVEL SHALL BE 2.5 SONES. | | ⑤ BACK DRAFT DAMPER. |
| | | ⑥ DIRECT-DRIVEN CENTRIFUGAL FAN. |
| | | ⑦ HANGING VIBRATION ISOLATORS. |

DIFFUSER/REGISTER SCHEDULE

TAG	MANUFACTURER MODEL NUMBER	TYPE	CFM	INLET/NECK SIZE	MAX NC	REMARKS
WER-1	TITUS 350RL	WALL MOUNTED EXHAUST REGISTER	120	8x8	25	①
DER-1	TITUS 350RL	DUCT MOUNTED EXHAUST REGISTER	100	6x6	25	①
L-1	GREENHECK BVE	BRICK VENT	320	16x8	25	②③

EQUIPMENT SHALL BE FURNISHED WITH THE FOLLOWING MINIMUM FEATURES:

- | | |
|--|---|
| ① PROVIDE WITH OPPOSED-BLADE DAMPER. | ③ BUILT-IN ALUMINUM MESH INSECT SCREEN. |
| ② STRAIGHT DUCT TO MATCH WALL THICKNESS. | |

GENERAL NOTES

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| <p>1. LEGENDS ARE GENERIC STANDARDS, AND MAY DEPICT ITEMS NOT APPLICABLE TO THIS JOB.</p> <p>2. BACKGROUNDS ARE FOR CONCEPTUAL REFERENCE AND MAY NOT BE CURRENT. SEE APPROPRIATE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.</p> <p>3. DUCT AND PIPING ROUTING IS SHOWN AS A GUIDE AND SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE BUT MAY BE MODIFIED AS NECESSARY TO MEET ACTUAL FIELD CONDITIONS AND INTERFERENCES. VERIFY WITH THE PROJECT ARCHITECT/ENGINEER.</p> <p>4. ALL AIR SIDE SYSTEMS SHALL BE BALANCED TO DESIGN CONDITION.</p> <p>5. DUCT DIMENSIONS INDICATED ARE NET INSIDE DIMENSION REQUIRED FOR AIR FLOW. INCREASE DUCT SIZE TO ALLOW FOR INSULATION THICKNESS.</p> | <p>6. VERIFY AT PROJECT SITE, EXACT SIZE, LOCATION, AND CLEARANCE OF EXISTING SERVICES.</p> <p>7. ALL REFERENCES TO BRAND NAMES OR TRADE NAMES ON SHEETS INCLUDES THE PHRASE "OR APPROVED EQUAL".</p> <p>8. ALL DEMOLISHED ITEMS SHALL BE REMOVED AND DISPOSED OF AS THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED.</p> <p>9. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL VERIFICATION AND COORDINATION OF EXISTING CONDITIONS AND ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO PURCHASING EQUIPMENT. ALL DISCREPANCIES OR POTENTIAL PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE RPD'S REPRESENTATIVE PRIOR TO CONSTRUCTION.</p> | <p>10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT AND/OR NEW SURFACES. AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK.</p> <p>11. EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE BASED ON INFORMATION CONTAINED IN THE ORIGINAL DESIGN "AS-BUILT" DOCUMENTS AND ON A LIMITED FIELD SURVEY.</p> <p>12. NOT ALL EXISTING SYSTEMS ARE SHOWN TO AID DRAWING INTERPRETATION CLARITY.</p> <p>13. PLANS ARE BASED ON ANTICIPATED EQUIPMENT SIZE AND CONFIGURATION. CONTRACTOR SHALL MODIFY ARRANGEMENT TO SUIT ACTUAL PURCHASED EQUIPMENT AS REQUIRED FOLLOWING THE CRITERIA ESTABLISHED BY THESE PLANS. DEPARTURES FROM THE CONTRACT DRAWINGS RESULTING FROM CHANGES IN EQUIPMENT SIZES AND CONFIGURATIONS, OR REARRANGEMENTS TO ACCOMMODATE FIELD CONDITIONS SHALL BE SUBMITTED IN DETAIL FOR THE PROJECT ARCHITECT/ENGINEER'S APPROVAL.</p> | <p>14. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIER REQUIREMENTS AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. PROMPTLY NOTIFY THE CITY REPRESENTATIVE IN WRITING OF ANY SUCH DIFFERENCE.</p> <p>15. CONFORM TO THE LATEST NFPA 90 "STANDARD FOR THE INSTALLATION OF VENTILATION SYSTEMS."</p> <p>16. DUCTWORK ON DRAWINGS ARE SCHEMATIC AND SHALL BE FABRICATED AND INSTALLED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES AS REQUIRED.</p> <p>17. SUPPORTS FOR ALL DUCTWORK AND PIPING SHALL BE IN ACCORDANCE WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS."</p> | <p>18. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MISCELLANEOUS METAL AND SUPPORTS FOR THE PROPER INSTALLATION OF THE PIPE AND DUCT SUPPORTS TO THE BUILDING STRUCTURE.</p> |
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