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ARCHITECT, LANDSCAPE ARCHITECT, INTERIOR DESIGNERS MITHUN, INC. Pier 56, 1201 Alaskan Way, #200 Seattle, WA 98101 (206) . 623 . 3344

STRUCTURAL ENGINEER DCI ENGINEERS 101 W Broadway, #1260 San Diego, CA 92101 (619) . 234 . 0501

**CIVIL ENGINEER** KHR ENGINEERS 4100 Newport Place Drive, #200 Newport Beach, CA 92660 (949) . 756 . 6440

MECHANICAL / PLUMBING ENGINEER HARTFORD ENGINEERING 11440 West Bernardo Court, #202 San Diego, CA 92127 (858) . 337 . 7712

**ELECTRICAL ENGINEER** MICHAEL WALL ENGINEERING 19600 Fairchild Road, #200 Irvine, CA 92612 (949) . 864 . 0600

**DESIGN BUILDER** HENSEL PHELPS

18850 Von Karman Ave, #100

Irvine, CA 92612
(949) . 852 . 0111

HENSEL PHELPS

**PROJECT** MESA COURT EXPANSION

LOCATION

PREPARED FOR

University of California, Irvine **Design & Construction** Services 5201 California Ave Suite 250

Irvine, CA 92697 UCI PROJECT NO. 996296

REVIEWED FOR CONFORMANCE (Per General Conditions, Article 3, Section 3.11.1) Review does not authorize or grant any waiver, deviation, or omission from the Contract Documents. Final approval is

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UC Irvine Design & Construction Services

PROJECT DIRECTOR

PROJECT MANAGER

PROJECT ARCHITECT

PROJECT TEAM MEMBERS PA, CM, JK

CIVIL ENGINEER SEAL

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Reviewed by:

Fire & Life Safety Division South



# **DEMOLITION NOTES:**

- REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPING. CUT AND CAP WHERE INDICATED ON THESE PLANS.
- REMOVE AND DISPOSE OF EXISTING DOMESTIC AND FIRE SERVICE PIPING. CUT AND CAP WHERE INDICATED ON THESE PLANS.
- 5 EXISTING COMMUNICATION LINES AND CONDUITS TO BE REMOVED AND/OR RELOCATED. SEE ELECTRICAL PLANS FOR FURTHER DETAILS.
- EXISTING GAS LINES TO BE REMOVED AND/OR RELOCATED. SEE MECHANICAL PLANS FOR FURTHER DETAILS.
- 7 REMOVE AND DISPOSE OF EXISTING IRRIGATION LINE.
- 8 PROTECT IN PLACE EXISTING COMMUNICATION LINES AND CONDUITS.
- 9 PROTECT IN PLACE EXISTING STORM DRAIN LINE.
- 10 PROTECT IN PLACE EXISTING SEWER LINE.
- 11 PROTECT IN PLACE EXISTING IRRIGATION LINE.

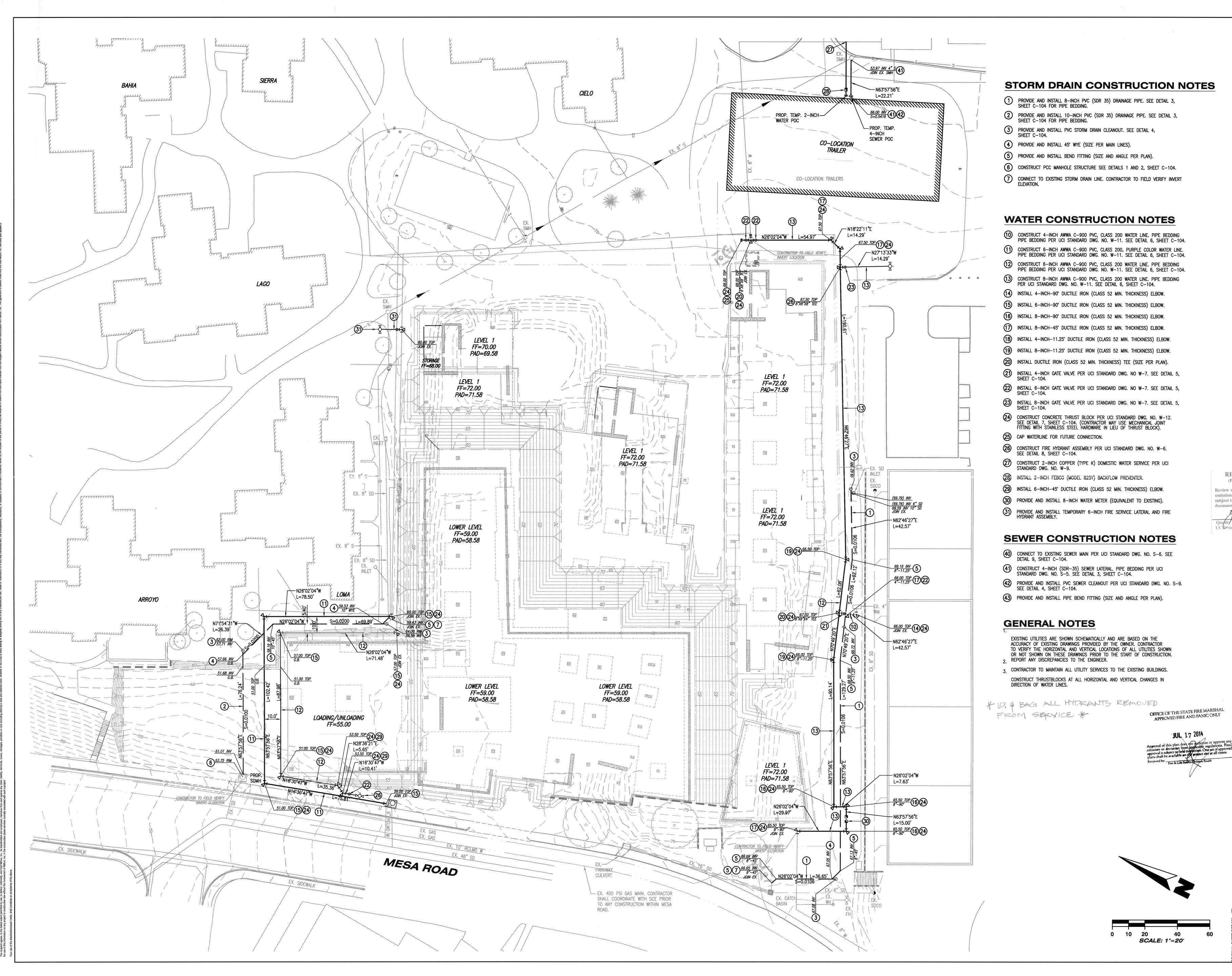


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**UTILITY DEMOLITION PLAN** 

**GOVERNMENTAL AGENCIES** 

07-16-14 PACKAGE 1 - DEMOLITION AND SITE UTILITIES



# MITHUN

SAN FRANCISCO / 660 Market Street, #300

ARCHITECT, LANDSCAPE ARCHITECT, INTERIOR DESIGNERS MITHUN, INC.

Pier 56, 1201 Alaskan Way, #200 Seattle, WA 98101 (206) . 623 . 3344 STRUCTURAL ENGINEER DCI ENGINEERS

101 W Broadway, #1260 San Diego, CA 92101 (619) . 234 . 0501 CIVIL ENGINEER KHR ENGINEERS

4100 Newport Place Drive, #200 Newport Beach, CA 92660 (949) . 756 . 6440 MECHANICAL / PLUMBING ENGINEER

HARTFORD ENGINEERING 11440 West Bernardo Court, #202 San Diego, CA 92127 (858) . 337 . 7712

ELECTRICAL ENGINEER MICHAEL WALL ENGINEERING 19600 Fairchild Road, #200 Irvine, CA 92612 (949) . 864 . 0600

**DESIGN BUILDER** 

HENSEL PHELPS

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HENSEL PHELPS

**PROJECT** MESA COURT EXPANSION

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Design & Construction Services 5201 California Ave Suite 250 Irvine, CA 92697

UCI PROJECT NO. 996296

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UC Levine Design & Construction Services

PROJECT MANAGER PROJECT ARCHITECT

PROJECT TEAM MEMBERS PA, CM, JK

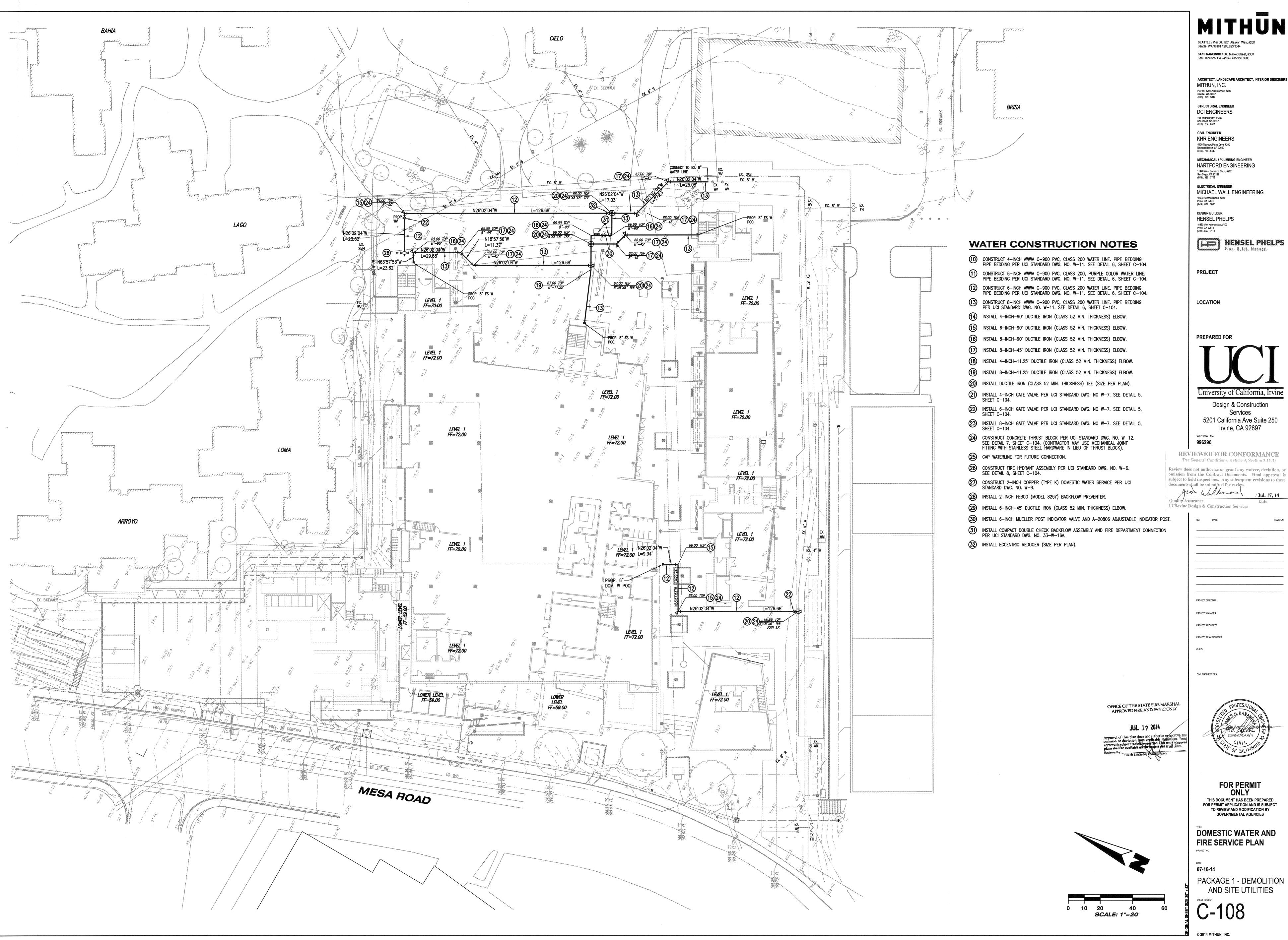


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**UTILITY RE-ROUTE PLAN** 

07-16-14

PACKAGE 1 - DEMOLITION AND SITE UTILITIES



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ARCHITECT, LANDSCAPE ARCHITECT, INTERIOR DESIGNERS

MECHANICAL / PLUMBING ENGINEER HARTFORD ENGINEERING

MICHAEL WALL ENGINEERING

HENSEL PHELPS

University of California, Irvine **Design & Construction** 

Services 5201 California Ave Suite 250 Irvine, CA 92697

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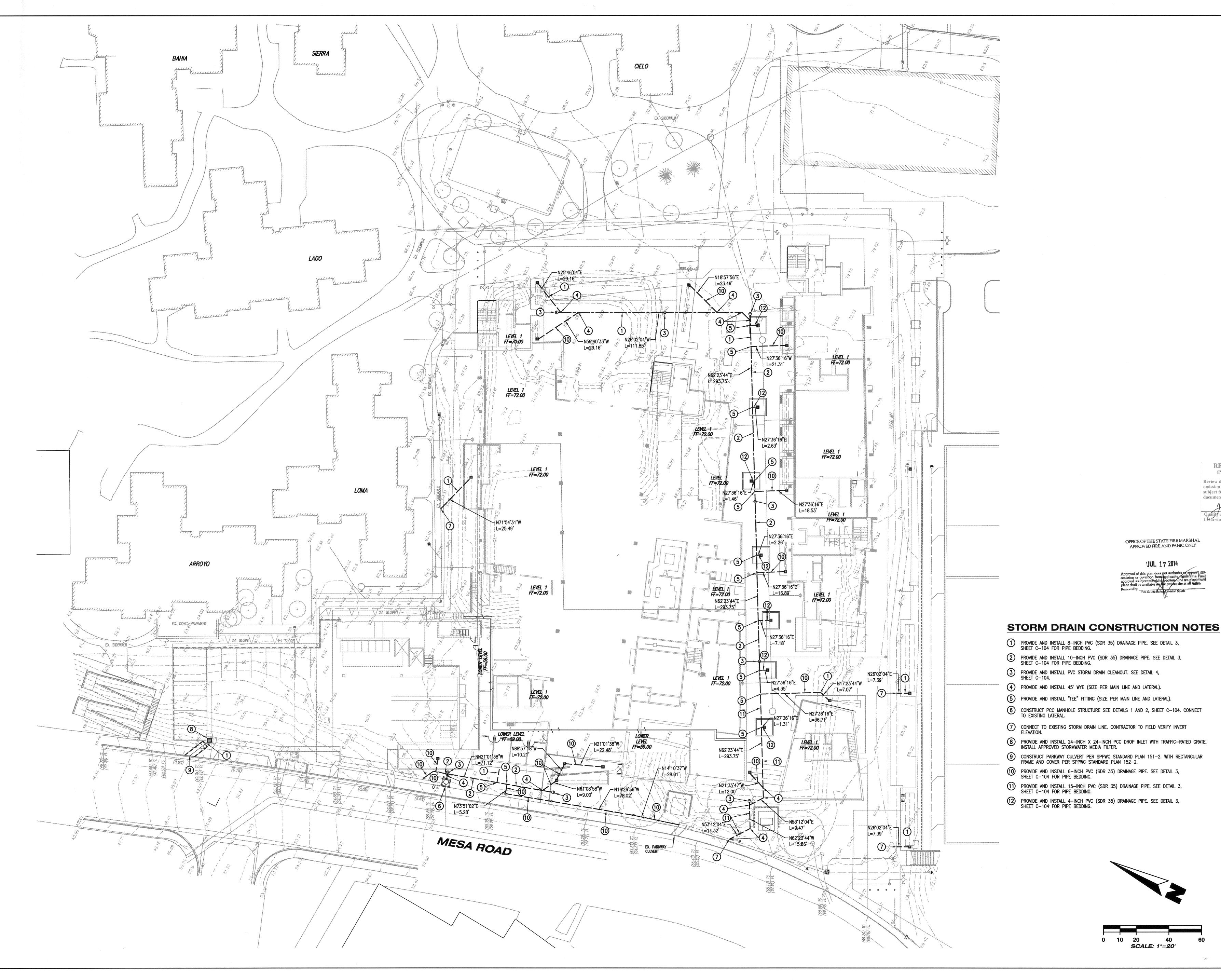


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**DOMESTIC WATER AND** FIRE SERVICE PLAN

PACKAGE 1 - DEMOLITION AND SITE UTILITIES



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**ELECTRICAL ENGINEER** MICHAEL WALL ENGINEERING 19600 Fairchild Road, #200 Irvine, CA 92612 (949) . 864 . 0600

DESIGN BUILDER HENSEL PHELPS

18850 Von Karman Ave, #100 Irvine, CA 92612 (949) . 852 . 0111

HENSEL PHELPS
Plan, Build, Manage,

**PROJECT** 

LOCATION

PREPARED FOR

University of California, Irvine

Services 5201 California Ave Suite 250 Irvine, CA 92697 UCI PROJECT NO.

**Design & Construction** 

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Quality Assurance
UC Irvine Design & Construction Services

PROJECT MANAGER

PROJECT ARCHITECT

PROJECT TEAM MEMBERS

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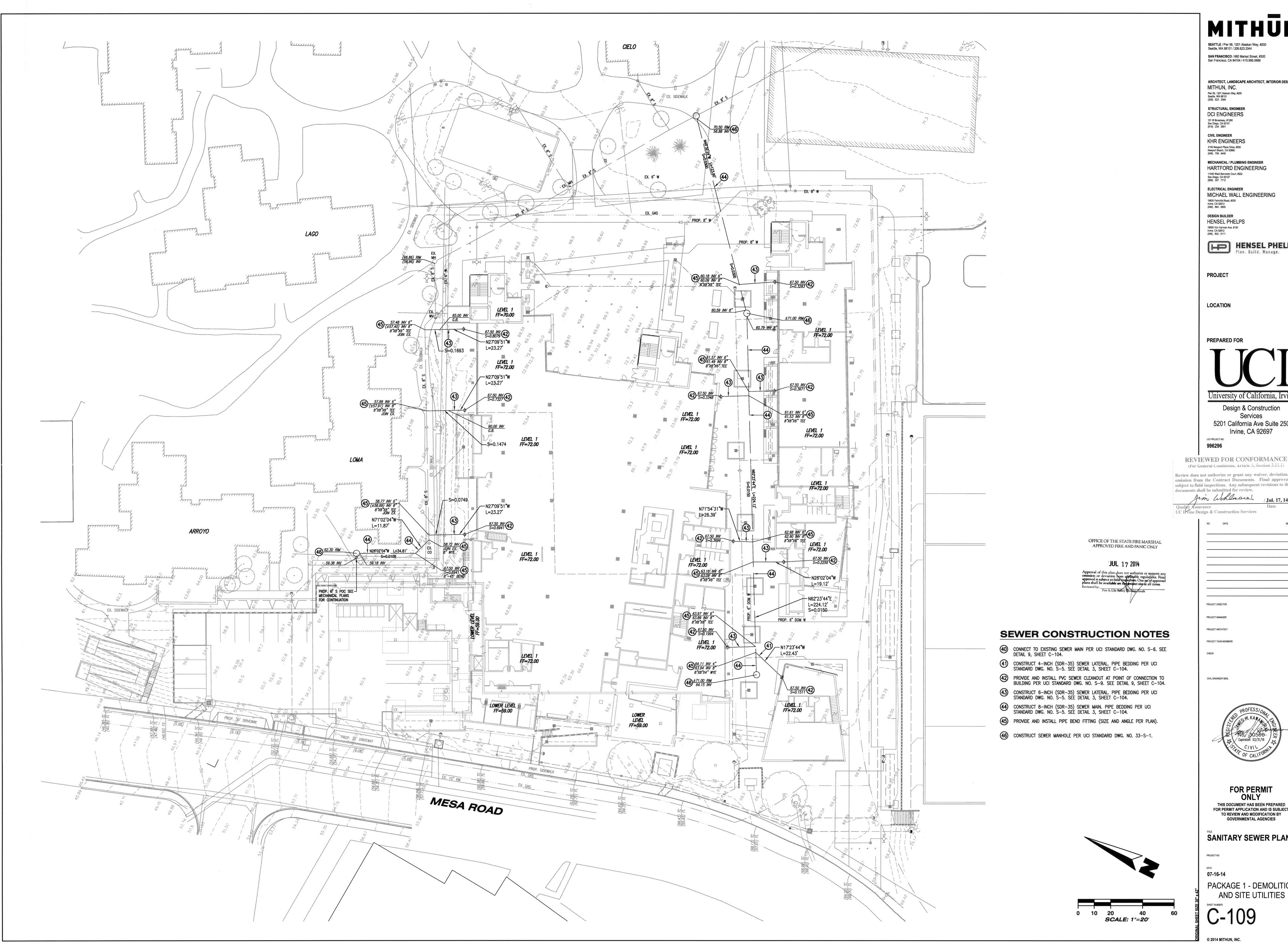
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**FOR PERMIT** 

STORM DRAIN PLAN

PACKAGE 1 - DEMOLITION AND SITE UTILITIES

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STRUCTURAL ENGINEER DCI ENGINEERS

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4100 Newport Place Drive, #200 Newport Beach, CA 92660 (949) . 756 . 6440 MECHANICAL / PLUMBING ENGINEER

HARTFORD ENGINEERING 11440 West Bernardo Court, #202 San Diego, CA 92127 (858) . 337 . 7712

**ELECTRICAL ENGINEER** MICHAEL WALL ENGINEERING

**DESIGN BUILDER** HENSEL PHELPS



HENSEL PHELPS
Plan. Build. Manage.

University of Camfornia, Irvine

Services 5201 California Ave Suite 250 Irvine, CA 92697 UCI PROJECT NO.

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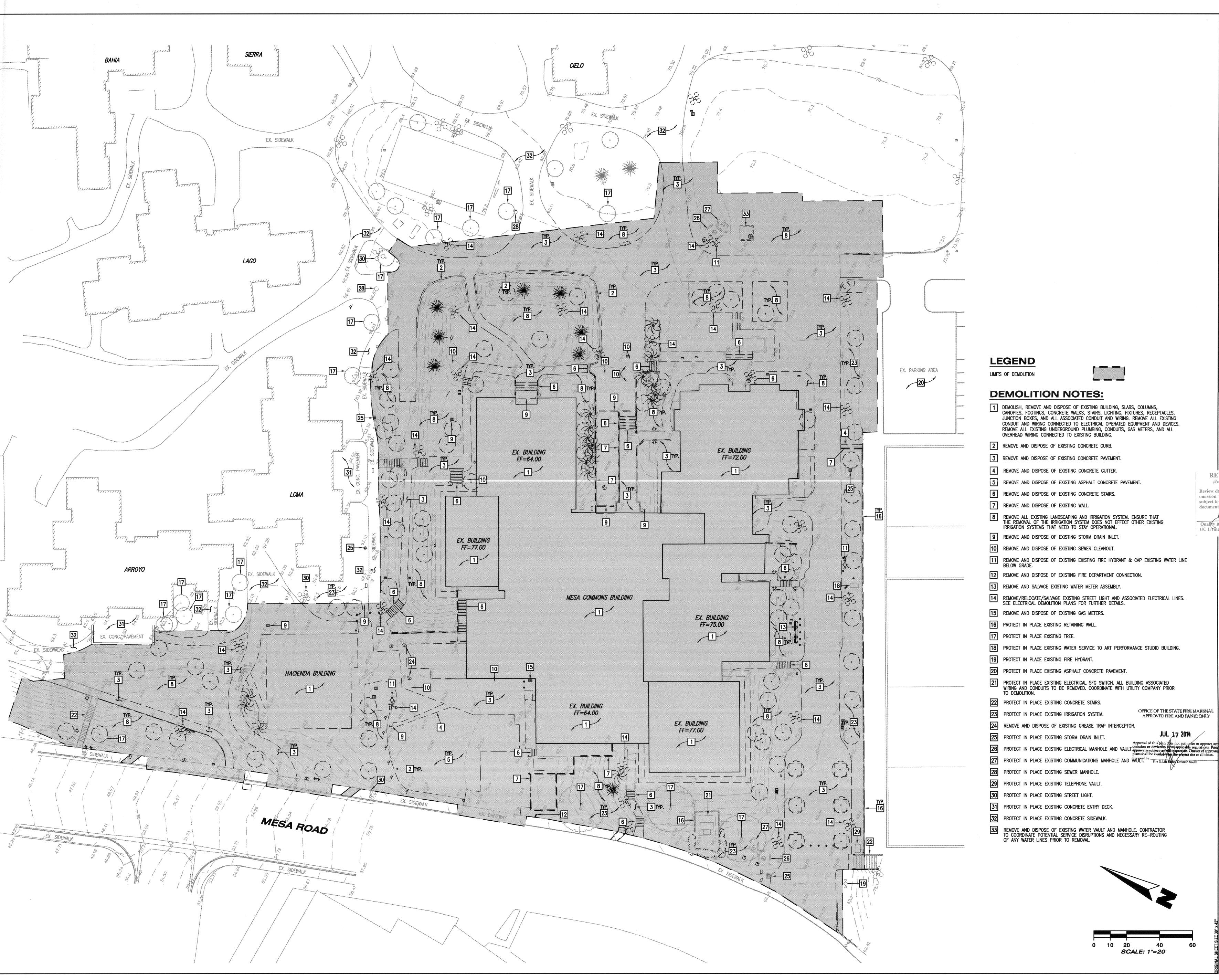
Quality Assurance
UC Irvine Design & Construction Services



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SANITARY SEWER PLAN

PACKAGE 1 - DEMOLITION



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**DESIGN BUILDER** HENSEL PHELPS

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HENSEL PHELPS

**PROJECT** 

LOCATION

PREPARED FOR

University of Camfornia, Irvine Design & Construction Services 5201 California Ave Suite 250 Irvine, CA 92697

UCI PROJECT NO. 996296

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Acm Wallmer Jul. 17, 14 Quality Assurance UC Irvine Design & Construction Services

PROJECT DIRECTOR

PROJECT MANAGER PROJECT ARCHITECT PROJECT TEAM MEMBERS

CIVIL ENGINEER SEAL



OFFICE OF THE STATE FIRE MARSHAL

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PROTECT IN PLACE EXISTING COMMUNICATIONS MANHOLE AND VAULT. Fire & Life Safety Division South

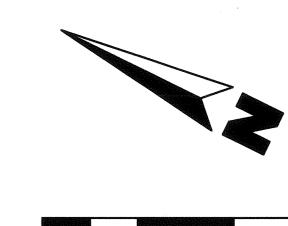
PROTECT IN PLACE EXISTING SEWER MANHOLE.

29 PROTECT IN PLACE EXISTING TELEPHONE VAULT.

31 PROTECT IN PLACE EXISTING CONCRETE ENTRY DECK.

[32] PROTECT IN PLACE EXISTING CONCRETE SIDEWALK.

REMOVE AND DISPOSE OF EXISTING WATER VAULT AND MANHOLE. CONTRACTOR TO COORDINATE POTENTIAL SERVICE DISRUPTIONS AND NECESSARY RE-ROUTING OF ANY WATER LINES PRIOR TO REMOVAL.





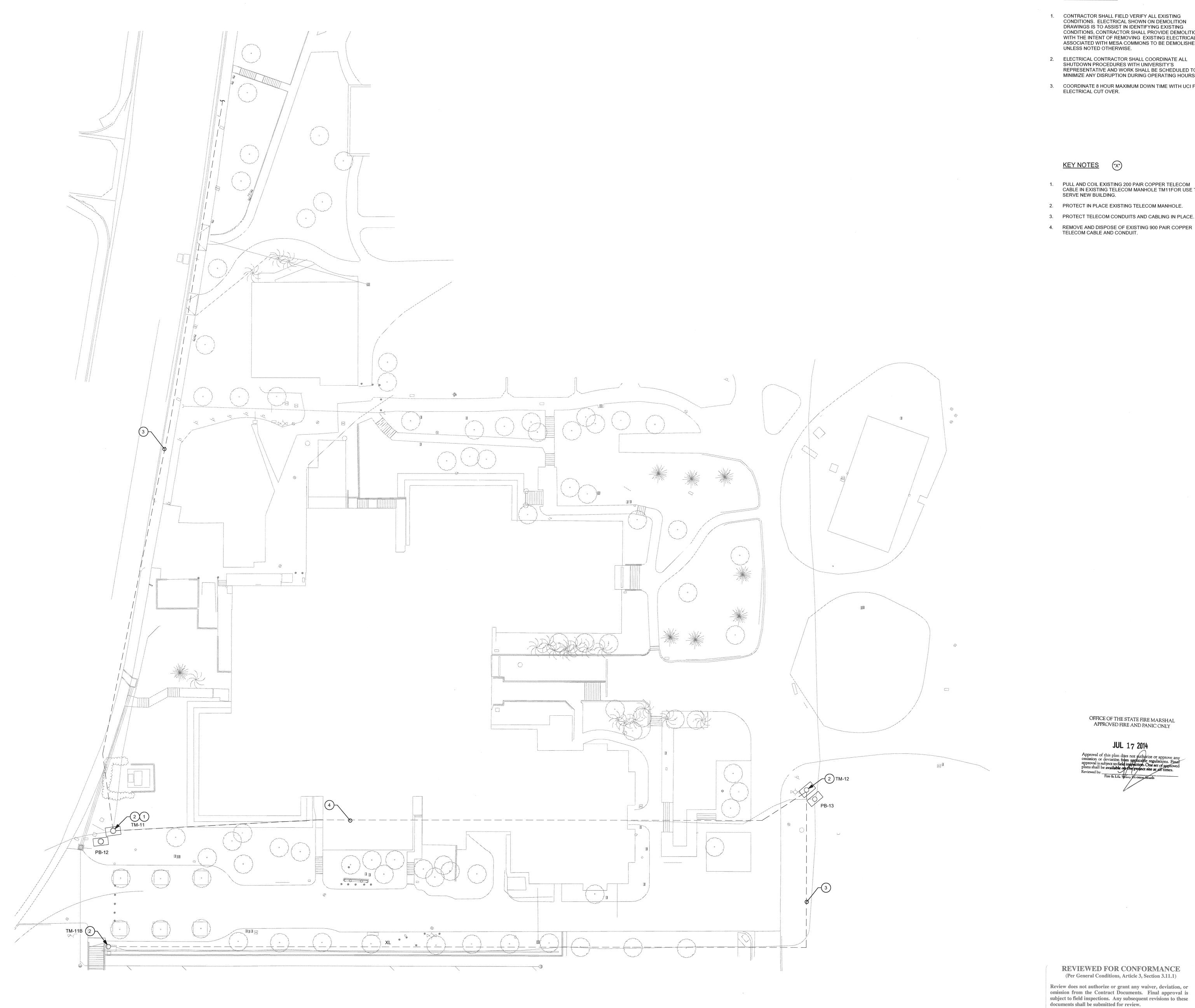
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SITE DEMOLITION PLAN

07-16-14 PACKAGE 1 - DEMOLITION AND SITE UTILITIES

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## **GENERAL NOTES**

- 1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. ELECTRICAL SHOWN ON DEMOLITION DRAWINGS IS TO ASSIST IN IDENTIFYING EXISTING CONDITIONS, CONTRACTOR SHALL PROVIDE DEMOLITION WITH THE INTENT OF REMOVING EXISTING ELECTRICAL ASSOCIATED WITH MESA COMMONS TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
- 2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWN PROCEDURES WITH UNIVERSITY'S REPRESENTATIVE AND WORK SHALL BE SCHEDULED TO

MINIMIZE ANY DISRUPTION DURING OPERATING HOURS.

3. COORDINATE 8 HOUR MAXIMUM DOWN TIME WITH UCI FOR ELECTRICAL CUT OVER.

KEY NOTES "X"

- PULL AND COIL EXISTING 200 PAIR COPPER TELECOM CABLE IN EXISTING TELECOM MANHOLE TM11FOR USE TO SERVE NEW BUILDING.
- 2. PROTECT IN PLACE EXISTING TELECOM MANHOLE.
- 3. PROTECT TELECOM CONDUITS AND CABLING IN PLACE.
- REMOVE AND DISPOSE OF EXISTING 900 PAIR COPPER TELECOM CABLE AND CONDUIT.

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**ELECTRICAL ENGINEER** MICHAEL WALL ENGINEERING

19600 Fairchild Road, #200 Irvine, CA 92612 (949) . 864 . 0600 DESIGN BUILDER

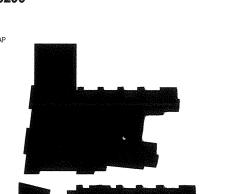
18850 Von Karman Ave, #100 Irvine, CA 92612 (949) . 852 . 0111

**PROJECT** MESA COURT

**EXPANSION** LOCATION IRVINE, CA

University of California, Irvine

Design & Construction 5201 California Ave Suite 250 Irvine, CA 92697



PROJECT DIRECTOR PROJECT MANAGER CM

PROJECT ARCHITECT PROJECT TEAM MEMBERS SK, JK CHECK

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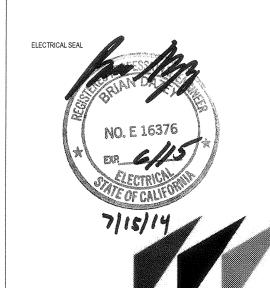
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Fire & Life Shiery Division South

REVIEWED FOR CONFORMANCE
(Per General Conditions, Article 3, Section 3.11.1)

UC Irvine Design & Construction Services

Jen Wahlmere / Jul. 17, 14



MICHAEL WALL ENGINEERING

SITE TELECOM DEMOLITION

**13292.00**DATE

July 3, 2014 PACKAGE 1 - DEMOLITION AND SITE UTILITIES

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SITE TELECOM DEMOLITION PLAN

## mmmm EXISTING STEEL mmmm (U/G)CONNECTED LOAD **EXISTING** NEW 3,947 CFH \_ — 4" STEEL HEADER mmmmm 3 CONNECTED LOAD 17,294 CFH LOWER LEVEL STEEL PE WALL CONNECTED LOAD NEW ...... 4,872 CFH TOTAL CONNECTED LOAD 26,113 CFH

1 NATURAL GAS PIPING DIAGRAM

# 2 SITE UTILITIES ENLARGED PLAN

# EXISTING HIGH PRESSURE 3 INCH

mmmmmm

**KEYED NOTES** 

- EXISTING HIGH PRESSURE 3 INCH GAS SERVICE BY SOUTHERN CALIFORNIA GAS (SCG).
- 2. EXCAVATE AND DISCONNECT SCG HIGH PRESSURE GAS MAIN AT THIS POINT. EXTEND OVER AND UP TO GRADE VIA AN ANODELESS RISER (3 INCH).
- 3. NEW SCG 3 INCH HIGH PRESSURE GAS ANODELESS RISER TO GRADE (3 FEET MINIMUM ABOVE GRADE).
- 4. VALVE, METER AND REGULATOR STATION BY SCG WITH A 4 INCH 5 PSIG GAS HEADER DOWNSTREAM (BY UCI). METER STATION TO BE ELEVATED ABOVE GRADE A MINIMUM OF 3 FEET.
- 5. DROP TWO (2) SEPARATE 4 INCH 5 PSIG GAS LINES DOWN VIA AN ANODELESS RISER TO BELOW GRADE (UCI).
- 6. CONNECT NEW 4 INCH GAS LINE TO EXISTING 4 INCH GAS LINE. INTERCEPT THE EXISTING GAS LINE AT THIS LOCATION. REMOVE AND SCRAP—OUT UNUSED PORTION OF EXISTING GAS LINE BELOW GRADE.
- EXISTING 4 INCH 5 PSIG GAS LINE TO REMAIN (UCI).
- 8. NEW 4 INCH 5 PSIG GAS LINE BELOW GRADE (UCI).
- 9. CONNECT NEW 4 INCH 5 PSIG GAS LINE TO EXISTING 4 INCH GAS LINE. INTERCEPT THE EXISTING GAS LINE AT THIS LOCATION. REMOVE AND SCRAP—OUT UNUSED PORTION OF EXISTING GAS LINE BELOW GRADE.
- 10. EXISTING 4 INCH 5 PSIG GAS LINE TO REMAIN (UCI).

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/Jul. 30, 14

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JUL 29 2014

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Reviewed by:
Fire & Life Safety Division South

UC Irvine Design & Construction Services

Review does not authorize or grant any waiver, deviation

- 11. MINIMUM 4 INCH PROTECTIVE PIPE BOLLARDS, SET 3 FEET APART, MINIMUM 4 FEET HIGH.
- 12. EXISTING FIRE HYDRANT AND WATER LINE TO REMAIN.
- 13. EXISTING SCG 3 INCH HIGH PRESSURE GAS LINE TO BE REMOVED AND SCRAPPED OUT (UCI).

minimum and a second

- 14. EXISTING STAIRWAY TO REMAIN.
- 15. EXISTING LANDSCAPED AREA, TO BE MODIFIED AS REQUIRED TO ACCOMMODATE THE NEW GAS METER/REGULATOR STATION & PIPE BOLLARDS.

**KEYED NOTES** 

1. PRIMARY GAS SERVICE FROM SOUTHERN CALIFORNIA GAS (SCG).

2. PRIMARY GAS METER/REGULATOR STATION
BY SCG. CONFIGURE METER/REGULATOR
STATION TO PROVIDE A MINIMUM OF
26,113 MBTU (26,113 CFH) AT 5 PSIG
(DELIVERED GAS PRESSURE).

3. ANODELESS RISER.

- 4. VALVE BOX FOR NEW PE VALVE (4 INCH).
- 5. CONNECTION OF NEW PE PIPE TO EXISTING PE PIPE.
- 6. EXISTING PE GAS PIPING (CONNECTED

7. CONNECTION OF NEW PE PIPE TO EXISTING PE PIPE.

8. VALVE BOX FOR NEW PE VALVE (4 INCH).

- 9. CONNECTION OF NEW PE PIPE TO EXISTING PE PIPE.
- 10. EXISTING PE GAS PIPING (CONNECTED LOAD = 3,947 CFH).
- VALVE BOX FOR A NEW PE VALVE (4 INCH).

12. NEW 4 INCH PE PIPE TO/THROUGH LOWER

LEVEL CONCRETE WALL.

13. NEW 4 INCH PE PIPE TO STEEL PIPE

TRANSITION INSIDE MECHANICAL ROOM

4. NEW PE PIPE - SIZE AS INDICATED.
PROVIDE TRACER WIRE AND WARNING
TAPE. PROVIDE TRACER WIRE TEST
BOXES EVERY 500 FEET OF PIPE-RUN
(MAXIMUM).

(CONNECTED LOAD = 17,294 CFH).

15. EARTHQUAKE VALVE.

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Seattle, WA 98101 / 206.623.3344

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Irvine, CA 92612 (949) . 864 . 0600 DESIGN BUILDER HENSEL PHELPS

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HENSEL PHELPS
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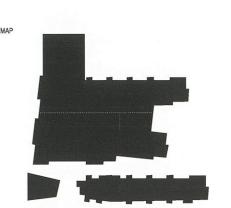
PROJECT
MESA COURT
EXPANSION
LOCATION
IRVINE, CA

PREPARED FOR



Design & Construction Services 5201 California Ave Suite 250 Irvine, CA 92697

UCI PROJECT NO. 996296



 DATE
 REVISION

 07/03/2014
 ISSUED FOR PERMIT

 07/16/2014
 PACKAGE 1 RESUBMITTAL

 07/24/2014
 ASI #1

PROJECT DIRECTOR

GH
PROJECT MANAGER

GH

GH
PROJECT TEAM MEMBERS
GH, MC
CHECK
GH

PROJECT ENGINEER

ENGINEER SEAL



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TITLE

MECHANICAL-PLUMBING PIPING

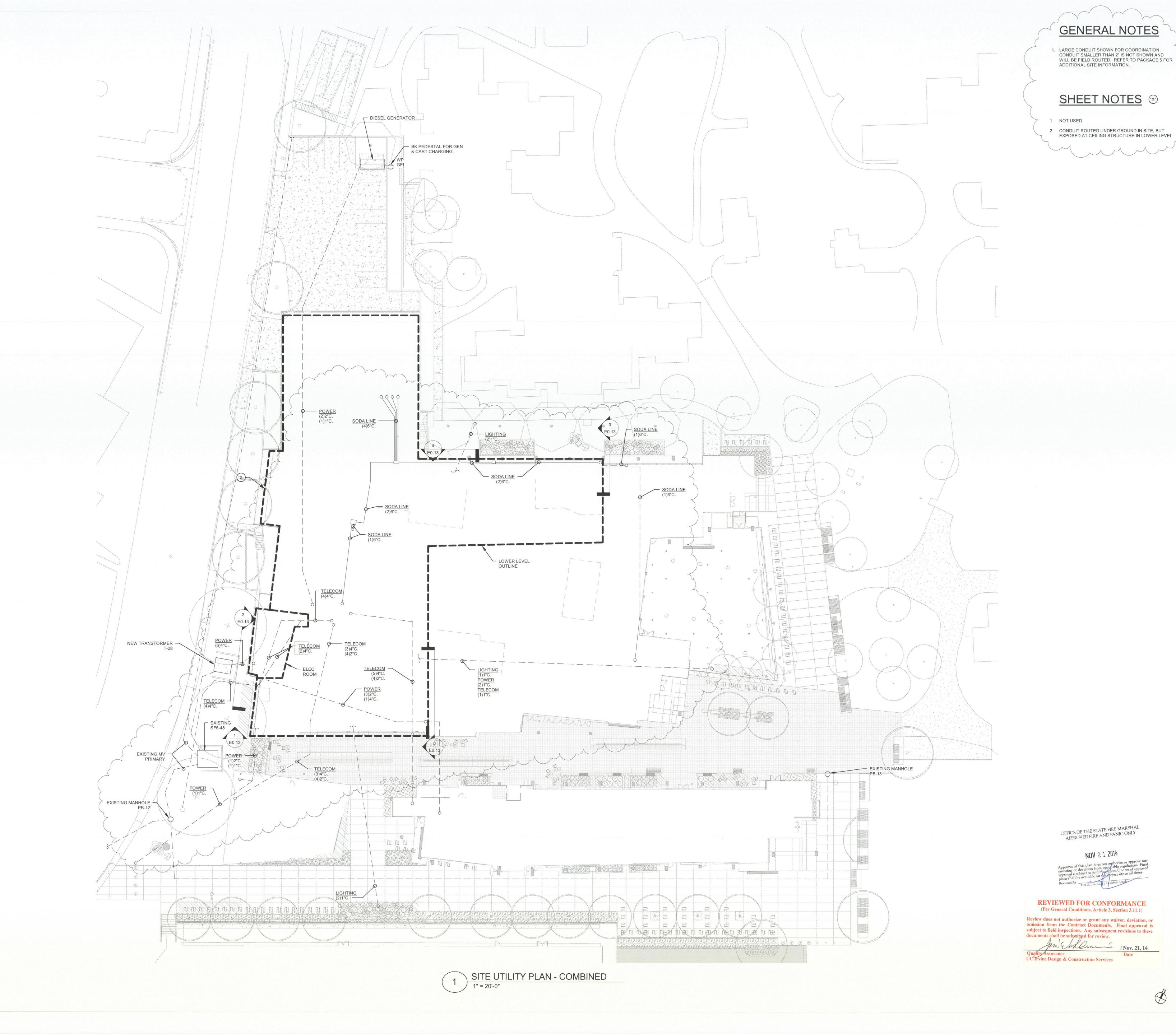
DIAGRAM & ENLARGED PLAN
PROJECT NO.

13292.00 DATE JULY 16, 2014

PACKAGE 1 - DEMOLITION
AND SITE UTILITIES

SHEET NUMBER

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PROJECT MESA COURT **EXPANSION** 

LOCATION

IRVINE, CA

PREPARED FOR University of California, Irvine

Design & Construction 5201 California Ave Suite 250



1 11.17.2014 ASI 7 - PK 2 REVISIONS

PROJECT MANAGER PROJECT TEAM MEMBERS SK, JK, DB, GO

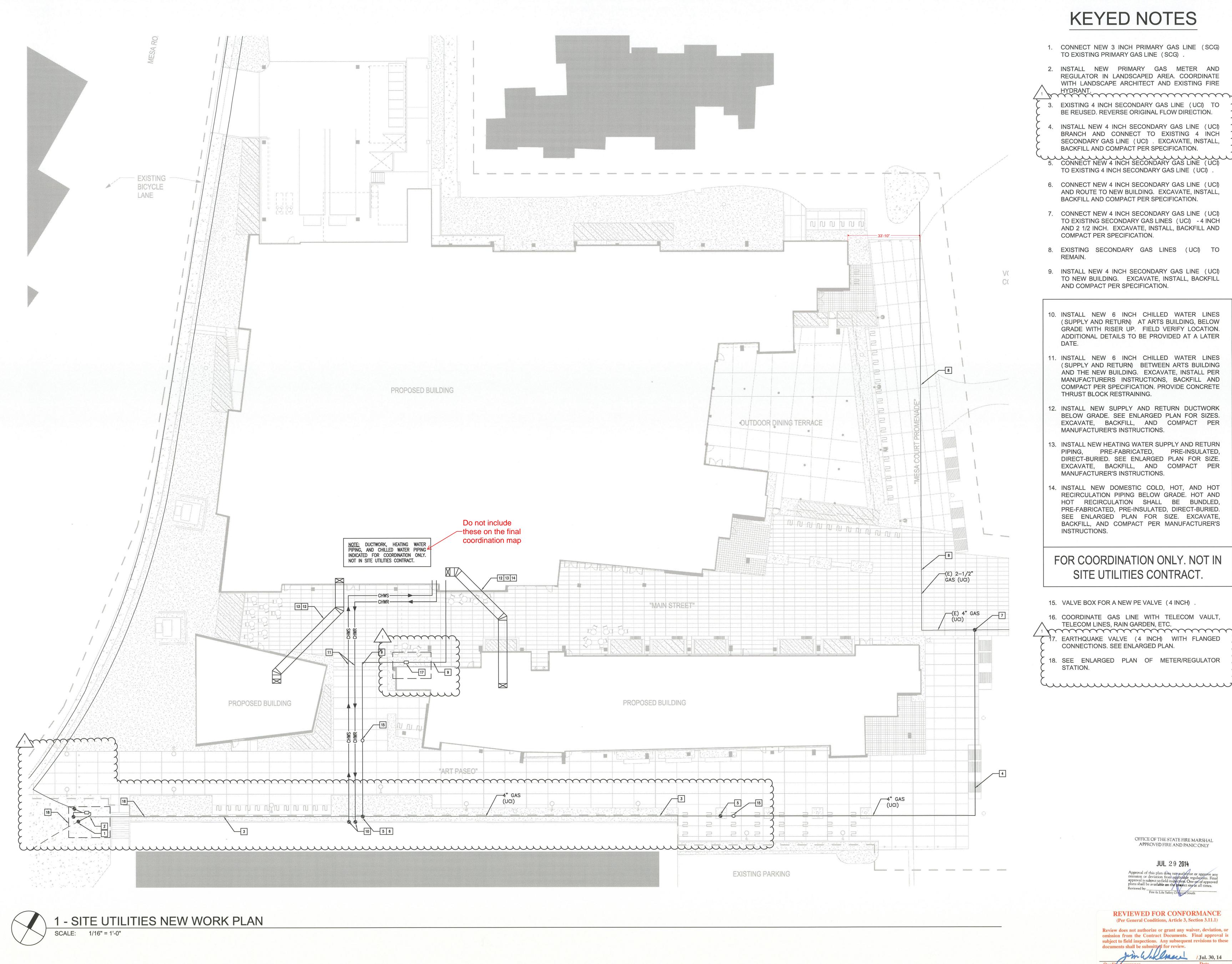
MICHAEL WALL ENGINEERING

SITE UNDERGROUND

PROJECT NO. 14110

July 30, 2014 PACKAGE 2 -STRUCTURE

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# KEYED NOTES

- 1. CONNECT NEW 3 INCH PRIMARY GAS LINE (SCG) TO EXISTING PRIMARY GAS LINE (SCG)
- 2. INSTALL NEW PRIMARY GAS METER AND REGULATOR IN LANDSCAPED AREA. COORDINATE WITH LANDSCAPE ARCHITECT AND EXISTING FIRE
- HYDRANT. 3. EXISTING 4 INCH SECONDARY GAS LINE (UCI) TO BE REUSED. REVERSE ORIGINAL FLOW DIRECTION.
- 4. INSTALL NEW 4 INCH SECONDARY GAS LINE (UCI) BRANCH AND CONNECT TO EXISTING 4 INCH SECONDARY GAS LINE (UCI) . EXCAVATE, INSTALL, BACKFILL AND COMPACT PER SPECIFICATION.
- 5. CONNECT NEW 4 INCH SECONDARY GAS LINE (UCI) TO EXISTING 4 INCH SECONDARY GAS LINE (UCI)
- 6. CONNECT NEW 4 INCH SECONDARY GAS LINE (UCI) AND ROUTE TO NEW BUILDING. EXCAVATE, INSTALL, BACKFILL AND COMPACT PER SPECIFICATION.
- 7. CONNECT NEW 4 INCH SECONDARY GAS LINE (UCI) TO EXISTING SECONDARY GAS LINES (UCI) - 4 INCH AND 2 1/2 INCH. EXCAVATE, INSTALL, BACKFILL AND COMPACT PER SPECIFICATION.
- 8. EXISTING SECONDARY GAS LINES (UCI) TO REMAIN.
- 9. INSTALL NEW 4 INCH SECONDARY GAS LINE (UCI) TO NEW BUILDING. EXCAVATE, INSTALL, BACKFILL AND COMPACT PER SPECIFICATION.
- 10. INSTALL NEW 6 INCH CHILLED WATER LINES (SUPPLY AND RETURN) AT ARTS BUILDING, BELOW GRADE WITH RISER UP. FIELD VERIFY LOCATION. ADDITIONAL DETAILS TO BE PROVIDED AT A LATER
- 11. INSTALL NEW 6 INCH CHILLED WATER LINES (SUPPLY AND RETURN) BETWEEN ARTS BUILDING AND THE NEW BUILDING. EXCAVATE, INSTALL PER MANUFACTURERS INSTRUCTIONS, BACKFILL AND COMPACT PER SPECIFICATION. PROVIDE CONCRETE THRUST BLOCK RESTRAINING.
- 12. INSTALL NEW SUPPLY AND RETURN DUCTWORK BELOW GRADE. SEE ENLARGED PLAN FOR SIZES. EXCAVATE, BACKFILL, AND COMPACT PER MANUFACTURER'S INSTRUCTIONS.
- 13. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING, PRE-FABRICATED, PRE-INSULATED, DIRECT-BURIED. SEE ENLARGED PLAN FOR SIZE. EXCAVATE, BACKFILL, AND COMPACT PER MANUFACTURER'S INSTRUCTIONS.
- 14. INSTALL NEW DOMESTIC COLD, HOT, AND HOT RECIRCULATION PIPING BELOW GRADE. HOT AND HOT RECIRCULATION SHALL BE BUNDLED, PRE-FABRICATED, PRE-INSULATED, DIRECT-BURIED. SEE ENLARGED PLAN FOR SIZE. EXCAVATE, BACKFILL, AND COMPACT PER MANUFACTURER'S INSTRUCTIONS.

# FOR COORDINATION ONLY. NOT IN SITE UTILITIES CONTRACT.

- 15. VALVE BOX FOR A NEW PE VALVE (4 INCH)
- 16. COORDINATE GAS LINE WITH TELECOM VAULT, TELECOM LINES, RAIN GARDEN, ETC. mmmmmmm 77. EARTHQUAKE VALVE (4 INCH) WITH FLANGED
- 18. SEE ENLARGED PLAN OF METER/REGULATOR STATION.

SEATTLE / Pier 56, 1201 Alaskan Way, #200 Seattle, WA 98101 / 206.623.3344 SAN FRANCISCO / 660 Market Street, #300 San Francisco, CA 94104 / 415.956.0688

ARCHITECT, LANDSCAPE ARCHITECT, INTERIOR DESIGNERS MITHUN, INC. Pier 56, 1201 Alaskan Way, #200 Seattle, WA 98101 (206) . 623 . 3344

STRUCTURAL ENGINEER DCI ENGINEERS 101 W Broadway, #1260 San Diego, CA 92101 (619) . 234 . 0501

CIVIL ENGINEER KHR ENGINEERS 4100 Newport Place Drive, #200 Newport Beach, CA 92660 (949) . 756 . 6440

MECHANICAL / PLUMBING ENGINEER HARTFORD ENGINEERING

11440 West Bernardo Court, #202 San Diego, CA 92127 (858) . 337 . 7712 **ELECTRICAL ENGINEER** 

MICHAEL WALL ENGINEERING 19600 Fairchild Road, #200 Irvine, CA 92612 (949) . 864 . 0600

**DESIGN BUILDER** 

HENSEL PHELPS 18850 Von Karman Ave, #100 Irvine, CA 92612 (949) . 852 . 0111

HENSEL PHELPS Plan. Build. Manage.

**PROJECT MESA COURT** 

LOCATION IRVINE, CA

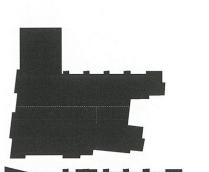
**EXPANSION** 

PREPARED FOR

University of California, Irvine Design & Construction

Services 5201 California Ave Suite 250 Irvine, CA 92697 UCI PROJECT NO.

996296



07/03/2014 PACKAGE 1 RESUBMITTAL 07/24/2014

PROJECT DIRECTOR

PROJECT MANAGER PROJECT ENGINEER PROJECT TEAM MEMBERS GH, MC

ENGINEER SEAL



**FOR PERMIT** THIS DOCUMENT HAS BEEN PREPARED FOR PERMIT APPLICATION AND IS SUBJECT TO REVIEW AND MODIFICATION BY

**GOVERNMENTAL AGENCIES** 

SITE UTILITIES NEW **WORK PLAN** PROJECT NO.

13292.00 **JULY 16, 2014** 

ISSUED FOR PERMIT

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**AND SITE UTILITIES** 

**PACKAGE 1 - DEMOLITION** 

omission from the Contract Documents. Final approval is subject to field inspections. Any subsequent revisions to these documents shall be submitted for review. fin Wallace

OFFICE OF THE STATE FIRE MARSHAL

APPROVED FIRE AND PANIC ONLY

JUL 29 2014

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by:

Fire & Life Safety Division South

REVIEWED FOR CONFORMANCE

(Per General Conditions, Article 3, Section 3.11.1)

Review does not authorize or grant any waiver, deviation, or