GENERAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL FINAL DESIGN, AGENCY APPROVALS, PLAN CHECK FEES, LABOR, EQUIPMENT, MATERIALS, AND PERFORMANCE OF OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING CODE APPROVED CENTRAL MONITORING SYSTEM.

THE COMPLETE INSTALLATION SHALL CONFORM TO APPLICABLE SECTIONS OF NFPA-72 2010 EDITION OR LATEST ADOPTED VERSION, LOCAL CODE REQUIREMENTS AND NATIONAL ELECTRICAL CODE.

IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DUGGAMMANIC, TOESIGN-BUILD' FORMAT, FOR THE CONTRACTION TO DESIGN, PROVIDE AND INSTALL A COMPLETE AND TOESIGN, PROVIDE AND INSTALL A COMPLETE AND TOESIGN, PROVIDE AND TOESIGN, T

DESIGN REQUIREMENTS: THE CENTRAL MONITORING SYSTEM SHALL BE RESPONSIBLE FOR CONTINUALLY SUPERWISING AND MONITORING BY ZONE, THE FOLLOWING INITIATING, SIGNALING AND MONITORING CIRCUITS (AT A MINIMUM):

MANUAL FRE PULL STATIONS.

SMOKE AND HAT DETECTORS — INCLUDING THOSE REQUIRED UNDER OTHER SECTIONS.

(FOR HAVE, SHUTOF, SMOKE FIRE DAMER CONTROL ETC.).

SPRINLER FLOW / TAMPER SWOTCHES — INCLUDING THOSE IN OTHER SECTIONS.

ALAMS SIGNALING CIRCUITS.

REMOTE ANNUALCATOR.

SYSTEM CONTROLS SHALL BE UL LISTED FOR POWER LIMITED APPLICATIONS PER NEC (OR CEC WHERE ADOPTED) ART. 760.41. SYSTEM SHALL BE CAPABLE OF COMMUNICATING WITH AN OFFICE SITE CENTER! INSURIORING SYSTEM

- ALL WIRING SHALL BE INSTALLED IN CONCEALED CONDUIT. ROUTE FIRE ALARM SYSTEM WIRING IN SEPARATE CONDUITS FROM ALL OTHER WIRING. ADDITIONALLY:
- WHEN CONDUIT CANNOT BE CONCEALED, CONTRACTOR SHALL DETAIN WRITTEN APPROVAL FROM ARCHITECT/ENDINERT TO PROVIDE SURFACE RACEWAYS OR CONDUITS PRIOR TO ANY ROUGH-IN. SURFACE RACEWAYS AND CONDUITS SHALL BE PROPERLY PREPARED AND PAINTED—COLOR AS SELECTED BY ARCHITECT/ENDINERY
- WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, CONDUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR DUCT WORK.
- VISUALLY OBJECTIONABLE CONDUITS SHALL BE REPOUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.

SYSTEM SHALL UTILIZE INTELLIGENT ANALOG ADDRESSABLE SENSORS. ALL OPEN AREA SENSORS SHALL BE LOW PROFILE DESIGN (MAXIMUM ALLOWABLE HEIGHT 2.25").

CONTROL PANEL SHALL EMPLOY AUTOMATIC DRIFT COMPENSATION OF SMOKE DETECTORS. CONTROL PANEL SHALL MEET THE REQUIREMENTS OF NFPA CHAPTER 7 FOR CALIBRATED TEST. MANUAL STATIONS SHALL BE DUAL ACTION WITH A KEYED RESET. KEY SHALL MATCH THE CONTROL PANEL. STATIONS SHALL BE ADA 5 LB. PULL FORCE APPROVED.

ALL AUDIO VISUAL DEVICES SHALL BE MANUFACTURERS STANDARD WHITE UNLESS OTHERWISE NOTED. PROVIDE ALL NECESSARY CONDUT(S) AND CONDUCTORS AS REQUIRED TO CONNECT DEVICES REQUIRED TO BE MONITORED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. THESE INCLUDE, BUT ARE NOT LIMITED TO, PM(S), BACKFORM PREVENTINGS), DETECTOR HECK WALVE(S), OSAY VALVE(S) ETC. REFER TO CMIL/PLUMBING DRAWNINGS FOR EXACT LOCATIONS AND QUANTITIES OF THESE DEVICES.

INSTALLATION OF THE CENTRAL MONITORING SYSTEM SHALL NOT BE STARTED UNTIL DRAWNINGS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS OF FIRE ALARM COMPONENTS, ARE SUBMITTED TO NAID APPROVED BY THE LOCAL FIRE MARSHAL WRITTED TO THE ARCHITECT AND THE STATE FIRE DISTRIBUTIOR OR MANUFACTURER SHALL BE SUBMITTED TO THE ARCHITECT AND THE STATE FIRE MARSHAL STATE TO COMPONENT PRATTS ARE AS "APPROVED AND LISTED" BY THE STATE FIRE MARSHAL MID THAT INSTALLATION CONFORMS IN ALL RESPECTS TO DECUMENDED THAT MAY SHALL OF THE MARSHAL MID THAT INSTALLATION CONFORMS OF ALL RESPECTS TO THE MARSHAL MID THAT INSTALLATION CONFORMS OF ALL RESPECTS TO THE MARSHAL MID THAT INSTALLATION CONFORMS OF ALL RESPECTS TO THE MARSHAL MID THAT INSTALLATION CONFORMS OF THE REQUIREMENTS SHAPE FOURTH STATE OF THE MARSHAL MID THAT INSTALLATION STATEMENT OF THE MARSHAL

OFERATING SYSTEM.

SUBMITIALS: SUBMIT IN ACCORDANCE WITH PROJECT GENERAL REQUIREMENTS SPECIFICATIONS, SHOW EQUIPMENT LOCATIONS, WIRING SCHEMATICS, DETAILS, PANEL CONFIGURATION AND SIZES AND A POINT-TO-POINT SCHEMATICS OF CIRCUITS AND ZONE SCHEDULES. INCLUDE FRONT ELEVATIONS, CHEMIC TOMERSIONS, TIPE OF MOUNTING, DOORS, BARRIERS, CARALOR NUMBER OF LOCKS, AND INCLUDE FRONT ELEVATIONS, DOORS, BARRIERS, CARALOR NUMBER OF LOCKS, AND INCLUDED THE CONTROL OF T CERTIFICATION OF INSTALLATION COMPANY:

- PROOF THAT THE FIRE ALARM CONTRACTOR IS UNDERWRITERS LABORATORIES, INC. (UL) LISTED UNDER THE CLASSIFICATION OF "PROTECTIVE" SIGNALING SERVICES— LOCAL, AUXILIARY, REMOTE STATION AND PROPRIETARY (ULUS) AND CENTRAL STATION PROTECTIVE SIGNALING SERVICES
- B. COPY OF THE FOLLOWING (NICET) CERTIFICATES. PROOF THAT THE CERTIFICATE HOLDERS ARE A PART OF THE FIRE ALARM CONTRACTOR'S LOCAL FACILITY SERVICING THIS PROJECT AND WILL INSTALL THE FIRE ALARM SYSTEM. NON-INCET INSTALLERS WE BE UTILIZED ON THE PROJECT OF ASSIST NICET-CERTIFIED INSTALLER ONLY IF DIRECTLY SUPERVISED BY NICET-CERTIFIED INSTALLER THE RATIO OF NICET-TO-NINCET INSTALLERS SHALL NOT DECEDE 13.
- CERTIFIED NICET TECHNICIAN LEVEL 2 (INSTALLER).
   CERTIFIED NICET TECHNICIAN LEVEL 4 (SUPERVISOR).
- C. QUALITY ASSURANCE: WORK SHALL BE PERFORMED BY A QUALIFIED SYSTEMS CONTRACTOR HOLDING A C-10 LICENSE.

WARRANTY: CONTRACTOR SHALL WARRANT COMPLETED CENTRAL MONITORING SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INSERSIT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF USE OF THE PROPERTY OF

PART II - EXECUTION

ZONING: THE BUILDING SHALL BE DIVIDED INTO ZONES FOR ALARM ANNUNCIATION AND SYSTEM CONFIGURATION FER THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL MINJOR AUTHORITY. A ZONE WILL BE ASSIGNED FOR EACH SPRINKLER FLOW SWITCH AND EACH TAMPER SWITCH. ARR-HANDLING SYSTEMS REQUIRING IN-DUCT DETECTION SHALL BE ZONED PER UNIT. UNIT SHALL BE SHUT DOWN DIRECTLY BY AUSLARY RELAY COMPROLED BY DUCT SWICKS DETECTION.

ACCEPTANCE TESTING: FINAL ACCEPTANCE WIL BE OVEN A TER SUCCESSFUL ACCEPTANCE TESTING AND SUBMISSION OF PAPROMS—BUILT DOCUMENTATION AND OPERATION AND MANUFACHMEN AND ADMINISTRATION OF THE DESIGN OF THE ACCEPTANCE TESTING OF THE ACCEPTANCE TESTING OF THE ACCEPTANCE THE ACCEPTANCE OF THE ACCEPTANCE OF

AN OPERATION OF EACH INITIATING DEVICE.
AN OPERATION OF EACH NIDICATING DEVICE (ALARM, HORN, AND ALARM LAMP).
OPERATION OF ALL FEATURES OF SYSTEM WIDDER NORMAL OPERATION.
OPERATION OF SYSTEM ON STANDER FOR SYSTEM.
OPERATION OF SYSTEM ON STANDER POWER OFF.

OPERATION OF SYSTEM ON STANDBY POWER WITH PRIMARY POWER OFF.

UPON COMPLETION OF INSTITULATION OF CENTRAL MONITORING/FIRE ARM EQUIPMENT, ELECTRICAL CONTRACTOR SHALL PROVIDE TO THE DINNIER A SIGNED, WHITTEN STATEMENT CONTRIBUNG THAT THE FIRE ALMR EQUIPMENT WAS INSTITULED IN ACCORDANCE WITH SPECIFICATIONS, WIRING DOGRAMS, FIRE ALMR EXPONENTIAL DEPOWER OF THE CONTRIBUTION OF THE PROVIDE AND SCOPE OF THANKING PROGRAM FOR MAINTENANCE TECHNICANS, OPERATORS, SYSTEM USERS, AND MANAGEMENT FEROMEL SHALL BE PROVIDED A CONTRACTOR SHALL PROVIDE A TRANSMIC PROCESSOR FOR THE OWNER'S MAINTENANCE SHALL PROVIDE A TRANSMIC PROCESSOR FOR THE OWNER'S MAINTENANCE SHALL BE PROVIDED FOR A MINIMUM OF 3 PERSON WITHIN ONE YEAR OF COMPLETION DATE. COSTS FOR INSTITUCTION SHALL BE PAID BY CONTRACTOR. TRANSMIS SHALL BE SCHOOLDED AND COORDINATED BY THE OWNER.

NFPA 72, CHAPTER 7, INSPECTION TESTING AND MAINTENANCE (1993) COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY. SUBMIT A COPY TO THE OWNER, ARCHITECT AND FIRE

PART III - PRODUCTS (CMCP)

EQUIPMENT SUBSTITUTIONS MUST BE PRE-APPROVED BY THE ELECTRICAL ENGINEER (10) DAYS PRIOR TO THE BID DATE. CONTRACTOR MUST SHOW OPERATION OF EQUIPMENT AND COMPLANCE WITH ALL FUNCTIONS AND FEATURES SPECIFIED. EQUIPMENT SUBSTITUTIONS NOT PRE-APPROVED PRIOR TO BID DATE WILL BE REJECTED.

CENTRAL MONITORING CONTROL PANEL (CMCP): WHERE INDICATED ON DRAWINGS, PROVIDE AND INSTALL A CENTRAL MONITORING CONTROL PANEL. CONSTRUCTION SHALL BE MODULAR WITH SOLID STATE MICROPROCESSOR—BASED ELECTRONICS.

THE ALAMN SYSTAM POWER SUPPLY(FIRS). THE PAPE IS A DEVICE DISTINCE FOR USE AS EITHER A REQUITE 24 VOLT POWER SUPPLY OF WERE AS THE WAS SHALL OFTER US TO SO, AMPS, FOLD AMPS SCHOMINGOIS, VOLT POWER, IT SHALL INCLUDE AND INTEGRAL CHARGES DESIGNED TO CHARGE 7.0 AMP HOUR BATTERIES AND TO SUPPORT RESIDENCE TO SHARDEY. THE PAPE SHALL HAVE TWO INPUT INTEGERS. THE INPUT THIOSES SHALL BE A NOTHINGTON APPLIANCE OFFICIAL FOR THE PAPE ALAMN CONTROL PAVELL, OF A REALY. FOUR OUTPUTS (THO STALL Y OR 7. AND THO STRILE Y) SHALL BE A WAILBEET OF THE PAPE ALAMN CONTROL PAPELL, OF A REALY. FOUR OUTPUTS (THO STRILE Y OR 7. AND THO STRILE Y) SHALL BE AVAILABLE FOR RECOMPREHENT TO SELECT THE A FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE ACT FAIL DEED THE PAPE SHALL BE ALLOUET THE ADMINISTRY TO SELECT THE PAPE SHALL BE ADMINISTRY TO SELECT THE PARE THE PAPE SHALL BE ADMINISTRY TO SELECT THE PAPE SHALL BE ADMINISTRY TO SELECT THE PA

FATC: PROVIDE FIRE ALARM TERMINAL CABINET AS REQUIRED OR AS SHOWN ON DRAWINGS.

HORN/STROBE - HORN/STROBE DEVICES SHALL BE WILL OF TELLING MOUNTED FET THE DRAWINGS OF AS REQUIRED BY LOCAL HAS COUNTED STROBE SHALL DEVELO OF A VEG DOLARIZED CHICAL NO SHALL BE PRODUCED WITH A SEAL FLUSH MOUNTING FLORE STROBE DIGHT SHALL BE WHITE LEXAN WITH "FIRE" ON Z DIES. HORN SHALL HAVE A MINIMUM SOUND OUTPUT OF 100 DB AT 10"0"0. THE STROBE SHALL HAVE A CANDELD MISTRIBUTION/PARING TO MEET DAR PEOUR DEVELORED.

SPRINKES BELL PROPIE WHERE NECTED ON DRAWING OR AS REQUIRED BY LOCAL AND, INCLUDE ALL COSTS IN BAKE BIT OF PROVIDE AND INSTALL A RUSH AND ROTE ALL FROM THE CENTRING RELLS HOWN DEVIAL. AN EXCREDE DETERIOR BELL OR HORN IS NOT ACCEPTABLE UNLESS ITS USE IS DRECTED BY THE COLOL FIRE MASSAUL. THE FIRE ALARM CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE USE OF SURFACE MOUNTED BELLS/HORNS PRIOR TO ROUGH-HM.

MANUAL STATIONS: FURNISH AND INSTALL WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. DEVICE SHALL BE ADDRESSABLE UNLESS OTHERWISE NOTED. STATION SHALL BE KEYED ALIKE AS THE CONTROL PANEL. SMOKE DETECTORS: FURNISH AND INSTALL WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. SENSORS SHALL BE ANALOG ADDRESSABLE TYPE.

DUCT SMOKE DETECTORS: DUCT SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE AND THE INSTALLATION MUST COMPLY WITH NFPA-90A. PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. HEAT DETECTORS: FURNISH AND INSTALL WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. SENSORS SHALL BE

BEAM DETECTORS: BEAM DETECTORS SHALL BE REPLECTIVE TRANSMITTER/RECOVER TYPE WITH INTEGRAL SENSITIVITY TRANSMITTING INFRARED SIGNAL TO A REPLECTIVE SURFACE OR RECOVER. THE BEAM DETECTOR SHALL HAVE A KEYED REMOTE TEST AND ALARM INDICATOR MOUNTED WITHIN 100 PETER OF THE BEAM DETECTOR. PHILL LOCATION DO BE DETERMINED OF ARCHITECT. THE BEAM MOUNTED SHALL COMMUNICATE THE ALARM AND TROUBLE HOLGATION OF THE BEAM DETECTOR BOOK TO THE FIRE ALARM AND TROUBLE HOLGATIONS OF THE BEAM DETECTOR BOOK TO THE FIRE ALARM CONTROL. WATERFLOW SWITCHES: WATERFLOW SWITCHES SHALL BE PROVIDED WITH A TAPPED 1/2" CONDUIT CONNECTION. THE FLOW SWITCH SHALL BE UL LISTED FOR ITS INTENDED PURPOSE. DEVICE TO BE FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR.

TAMPER SWITCHES: SPRINKLER VALVE TAMPER SWITCHES COVER REMOVAL SHALL BE SUPERVISED. SWITCH SHALL BE PROVIDED WITH EITHER ONE OR 2 SETS OF S.P.D.T. MICRO SWITCHES AS REQUIRED. TAMPER SWITCH SHALL BE UL LISTED FOR ITS INTENDED PURPOSE. DOVING TO BE FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR.

MONITOR MODULE: MONITOR RELAYS FOR MONITORING SMOKE DOORS, GENERATORS, AUTOMATIC TRANSFER SWITCHES, FIRE SUPPRESSION SYSTEMS, ETC. AND WHERE INDICATED ON THE DRAWNOS OR AS REQUIRED BY LOCAL AHJ. CONTROL MODULE: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ

MAGNETIC DOOR HOLDER: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AH.

RELAY MODULE: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL ANJ. RELAY(S) SHALL BE RATED FOR COMMUNIOUS MOTION OR INDUCTIVE LOADS SUCH AS COMBINATION SMOKE FIRE DAMPERS (CSPID), MAGNETIC HOLD OPENS, ETC. QUANTITY OF RELAYS SHALL BE SEASED ON PROJECT-SPECIFIC CSPD LOADS WHICH SHALL NOT EXCEED 80% OF MOTION LOAD RATING OF THE RELAY. INCLIDE ALL COSTS IN BASE BID TO ADD ADMITIONAL 120V CONDUCTORS AS REQUIRED TO PARTITION LOADS ON INDIVIDUAL RELAYS TO MEET THE 80% RELAY MOTION LOAD LOAD.

RELAY MODULE: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. RELAY(S) SHALL BE RATED FOR CONTINUOUS MOTION ON INDUCTIVE LOADS SUCH AS COMBINATION SMOKE RIFE DAMPERS (CSFDs), MAGNETIC HOLD OPENS, ETC UNMATTLY OF REALS SHALL BE BASED ON PROJECT—SPECIFIC CSFD LOADS WHICH SHALL NOT EXCEED BRX OF MOTION LOAD OF THE RELAY. INCLIDE ALL COSTS IN BASE BID TO ADD ADDITIONAL 120V CONDUCTORS AS REQUIRED TO PARTITION LOADS INNOVIDUAL RELAYS TO MEET THE GOS RELAY MOTION LOAD LIST. REMOTE LED: PROVIDE REMOTE LED AND/OR REMOTE LED/TEST STATION WHERE SHOWN ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. DEVICE LOCATION SHALL BE COORDINATED WITH LOCAL AHJ AND ARCHITECT PRIOR TO ROUGH-IN.

UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER (UDACT): THE UDACT IS AN INTERFACE FOR COMMUNICATING DIGITAL INFORMATION BETWEEN A CENTRAL MONITORING CONTROL PANEL AND A UL LISTED CENTRAL STATION.

- THE UDACT SHALL BE COMPACT IN SIZE, MOUNTING IN A STANDARD MODULE POSITION OF THE FIRE ALARM CONTROL CABINET.
  THE CONNECTION BETWEEN THE UDACT AND THE CONTROL PANEL SHALL BE COMPLETELY SUPERVISED.
- THE UDACT SHALL INCLUDE CONNECTIONS FOR DUAL TELEPHONE LINES (WITH VOLTAGE DETECT), PER UL/NFPA REQUIREMENTS. IT SHALL INCLUDE THE ABILITY FOR SPLIT REPORTING OF PANEL EVENTS.
- 3. THE UDACT SHALL BE COMPLETELY FIELD PROGRAMMABLE FROM A BUILT-IN KEYPAD AND 4 CHARACTER RED, SEVEN SEGMENT DISPLAY.
- THE UDACT SHALL BE CAPABLE OF TRAISMITTING EXEMTS IN AT LEAST 9 DIFFERENT FORMATS. THIS ENSURES COMPATIBILITY WITH EXISTING AND FUTURE TRAISMISSION FORMATS. ACCEPTED FORMATS INCLUDE 3+1 STANDARD, 4+1 STANDARD, ADEMICO CONTACT D OR 4+1 AND 4+2 ORDERO.
- 5. COMMUNICATION SHALL INCLUDE VITAL SYSTEM STATUS SUCH AS:

INDEPENDENT ZONE (ALARM, TROUBLE, NON-ALARM)
INDEPENDENT ZONE SUPERVISORY SIGNAL
AC (MANN) POPER LOSS
SYSTEM OFF NORMAL
SYSTEM OFF NORMAL
ANNORMAL TEST SIGNAL (FER UL REQUIREMENTS)
EM-485 COMMINICATIONS FALLIRE
EM-485 COMMINICATIONS FALLIRE

- THE UDACT SHALL INCLUDE INDEPENDENT ZONE/POINT REPORTING IN THE CONTACT ID FORMAT. IN THIS FORMAT THE UDACT SHALL SUPPORT TRANSISON OF UP TO 2.040 POINTS. THIS ENABLES THE CENTRAL STATION TO HAVE EXACT DETAILS CONCERNING THE ORGIN OF THE FIRE OR RESPONSE EVERDENCY.

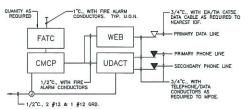
  UDACT PROVISIONING SHALL BE INCLUDED IN THE BASE BID BASED ON THE FOLLOWING ASSUMPTIONS:
- ASSUME THE FOLLOWING INFORMATION WILL BE PROVIDED BY THE OWNER TO PROGRAM AN INSTALLED UDACT TO A THIRD-PARTY

- a. MONITORING ACCOUNT NUMBER
- PRIMARY RECEIVER PHONE NUMBER
- c. SECONDARY RECEIVER PHONE NUMBER d. RECEIVER TYPE
- TRANSMISSION FOR
- f. MONITORING COMPANY NAME
  g. MONITORING COMPANY MAIN PHONE
  h. CONTACT PERSON AT MONITORING COMPANY

ASSUME THIRD-PARTY CENTRAL STATION PROVIDER SHALL PROVIDE 72 HOURS ADVANCE NOTICE FOR FIRE ALARM CONTRACTOR/INSTALLER TO BE PRESENT FOR UDACT PROGRAMMING, PRE-TESTING, TESTING, AND CONNECTION. ASSUME A REPRESENTATIVE FROM THE THIRD-PARTY CENTRAL STATION IS REQUIRED AT LOCATION AT THE OF PROGRAMMING, PRE-TESTING, TESTING, AND CONNECTION.

ASSUME A REPRESENTATIVE FROM THE THIRD-PARTY CENTRAL STATION IS REQUIRED AT LOCATION AT THE OF PROGRAMMING, PRETEST & CONNECTION. ADDITIONALLY, THIRD-PARTY CENTRAL STATION PROMORE SHALL PROMORE ANY MONITORING REPORTS REQUIRED BY THE THE DEPARTMENT. A SEPARATE PERMIT WILL BE SUBMITTED AND PAID FOR BY THE THIRD PARTY CENTRAL STATION PROMORED.

WEB SERVER (WS): THE WEB SERVER IS AN INTERFACE FOR COMMUNICATING SYSTEM EVENTS VIA OWNER LOCAL AREA NETWORK.
WEB SERVER SHALL BE CONFIDURED WITH A FIXED IP ADDRESS (FURNISHED BY CONTRET-IMPLEMENTED BY CONTRACTOR) TO ALLOW
AUTOMATIC LAME, OF CELL PRIOR EXT MESSAGING IN RESPONSE OF DAY SYSTEM EXCHT. AUDITIONAL MED SERVER SHALL ALLOW
CONTRET. CONTRACTOR SHALL INCLUDE B HOURS OF SERVER CONTRUBATION BASED ON OWNER INFUT COMBINED WITH
CONTRET. CONTRACTOR SHALL INCLUDE B HOURS OF SERVER CONTRUBATION BASED ON OWNER INFUT COMBINED WITH
CONTRIBUTION TRAINING FOR THE CONVERS REPRESENTATIVES IN BASE BID.



### CENTRAL MONITORING SYSTEM SCHEMATIC

### CENTRAL MONITORING SYSTEM PRODUCTS

SYSTEM SHALL BE BY NOTIFIER AS DISTRIBUTED BY NESCO AFFILIATE. CONTACT TRI-SIGNAL INTEGRATION, INC. (818) 566-8558. CONTACT: GENE KNUST-GRAICHEN NOTIFIER #NFS-320 - FOR USE IN ONE THRU THREE STORY BUILDING WITH OR WITHOUT VEC REQUIREMENT. NOTIFIER #NFS2-640 - FOR USE IN ONE THRU FIVE STORY BUILDINGS WITH OR WITHOUT VEC REQUIREMENT PACP: NOTIFIER TYPE #RP 2001 ANNUNCIATOR NOTIFIER TYPE FDU-80 (FOR USE WITH NFS-320 & NFS2-640)
NOTIFIER TYPE LCD-160 (FOR USE WITH NFS2-3030) OR
LDM-32 CUSTOM GRAPHICS PANEL (WHERE REQUIRED
BY LOCAL ANJ OR INDICATED ON PLANS)
NOTIFIER TYPE NCA-2 (FOR USE AS CAMPUS/NETWORK 18"x 18"x 4" METAL CABINET WITH SCREW COVER (FOR USE WITH NFS-320) 24 x 24 x 6" METAL CABINET WITH SCREW COVER (FOR USE WITH NFS2-640 & NFS2-3030) FATC:

OWER SUPPLY(FAPS NOTIFIER #FCPS-2458 NOTIFIER #ACPS-610 IORN / STROBE: WHEELOCK #ZNS-SERIES SYSTEM SENSOR #P-SERIES STROBE: WHEELOCK #ZRS-SERIES SYSTEM SENSOR #S-SERIES SPEAKER/ STROBE

SPEAKER: NOTIFIER #KMS-10-24. SEE EXTERIOR FLUSH HORN DETAIL.
SYSTEM SENSOR #SSM OR SSV SERIES PRINKLER BELL:

PREACTION RELEASING STATION NOTIFIER #NBG-12LR W/FMM-10 NOTIFIER #FSP-851 PHOTOELECTRIC SMOKE DETECTORS: (RETURN AIR, AREA, IN-DUCT AREA)

DUCT DETECTORS (SMOKE): HEAT DETECTORS: NOTIFIER #DNR W/FSP-851R SMOKE DETECTOR HEAD NOTIFIER #FST-851 NOTIFIER #FSB-200/BEAM MMK/BEAMSMK /RTS151KFY BEAM SMOKE DETECTORS:

VATERFLOW: NOTIFIER #WFD SERIES. TAMPER: NOTIFIER #PIBV2 SERIES NOTIFIER #OSY2 SERIES. MONITOR MODULE: NOTIFIER #FMM-1, #FDM-1, OR FMM-101

ONTROL MODULE NOTIFIER #FCM-1 ADDRESSABLE CONTROL RELAY NOTIFIER #FRM-1 WITH SYSTEM SENSOR #PR-1 OR #R-10T AS REQUIRED

MAG DOOR HOLDER NOTIFIER #FM SERIES REMOTE LED: NOTIFIER #RA100Z or, if required, #RTS151 series COMMUNICATOR NOTIFIER MODEL #UDACT

WEB SERVER: NOTIFIER TYPE #NWS VOICE EVACUATION SYSTEM NOTIFIER #NEV-25/50

ALL OTHER MISCELLANEOUS ITEMS: NOTIFIER / WHEELOCK / KIRKLAND / SYSTEM SENSOR FIRE ALARM/CENTRAL MONITORING SYSTEM SYMBOLS

FACE FIRE ALARM CONTROL PANEL - SEE SPECIFICATIONS CMCP CENTRAL MONITOR CONTROL PANEL- SEE SPECIFICATIONS

FAAP FIRE ALARM ANNUNCIATOR PANEL - SEE SPECIFICATIONS.

[FATC] FIRE ALARM TERMINAL CABINET - SEE SPECIFICATIONS

FAPS FIRE ALARM SYSTEM POWER SUPPLY/TRANSPONDER PANEL - SEE SPECIFICATIONS [PACP] FIRE ALARM PRE-ACTION CONTROL PANEL - SEE SPECIFICATIONS.

VECT FIRE ALARM VOICE EVACUATION SYSTEM CONTROL PANEL - SEE SPECIFICATIONS.

FIRE ALARM HORN/FLASHING LIGHT (ADA APPROVED), WALL MOUNTED — SEE SPECIFICATIONS, CANDELA RATING AS REQUIRED TO MEET ADA COVERAGE REQUIREMENTS FIRE ALARM HORN/FLASHING LIGHT (ADA APPROVED), CEILING DEVICE SEE SPECIFICATIONS. CANDELA RATING AS REQUIRED TO MEET ADA COVERAGE REQUIREMENTS.

FIRE ALARM FLASHING LIGHT (ADA APPROVED), WALL MOUNTED - SEE SPECIFICATIONS. CANDELA RATING AS REQUIRED TO MEET ADA COVERAGE REQUIREMENTS.

FIRE ALARM FLASHING LIGHT (ADA APPROVED), CEILING MOUNTED DEVICE - SEE SPECIFICATIONS, CANDELA RATING AS REQUIRED TO MEET ADA COVERAGE REQUIREMENTS

KT E SMOKE/CO ALARM STROBE LIGHT - 120V, WALL/CEILING MOUNTED. DEVICE TO BE USED IN CONJUNCTION WITH A 120V SMOKE/CO ALARM DEVICE. UNIT SHALL BE LISTED PER UL7911. BRIK 95L177.

FIRE ALARM SPEAKER/FLASHING LIGHT, WALL MOUNTED - SEE SPECIFICATIONS FIRE ALARM SPEAKER/FLASHING LIGHT, CEILING MOUNTED DEVICE - SEE SPECIFICATIONS.

FIRE ALARM SPEAKER, CEILING MOUNTED - SEE SPECIFICATIONS.

FIRE ALARM SPEAKER, WALL MOUNTED - SEE SPECIFICATIONS.

FIRE ALARM BELL - SEE SPECIFICATIONS. FIRE ALARM MANUAL PULL STATION, WALL MOUNTED - SEE SPECIFICATIONS

FIRE ALARM DUAL ACTION/PREACTION RELEASING STATION, WALL MOUNTED — SEE SPECIFICATIONS.

FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED - SEE SPECIFICATIONS

FIRE ALARM SMOKE DETECTOR, CELLING MOUNTED — SEE SPECIFICATIONS.

STAND ALONE SMOKE DETECTORS: AREA SMOKE DETECTORS FOR THE CONTROL OF
COMBINATION SMOKE/FIRE DAMPERS (CSFS)'S SHALL BE CENTEM MODEL BIODRY (CSFM
#7272-0589:101). THE DETECTORS SMALL BE 1200AP POWERED AND SHALL NOT CONNECT
MICHORATOR AND SHALL AUTOMATICALLY PLANSE THE SEPERITURE CSTSTS TO CLOSE THE
DETECTOR'S SHALL INCORPORATE A SELF RESETTING FEATURE WHEN SMOKE HAS CLEARED.
HE AREA SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH INFRA DA AND
APPLICABLE SECTIONS OF NFPA 72 — AND ARE ONLY ALLOWED WHEN SPECIFICALLY SHOWN
ON FLANS.

SMOKE/CO JARM DEVICE - 120V. 120V SINGLE/MULTIPLE STATION SMOKE AND CARBON MONOXIDE SENSOR WITH MONITORED 9V BATTERY BACKUP. DEVICE TO HAVE DISTINCT SMOKE AND CO SENSOR'S AND SOUND PATTERNS. UNITI SHALL BE UL LISTED PER UL217 AND UL2034. BRK #SC9120B. IF THIS DEVICE IS TO BE SUPERVISED - CONNECT VIA A BRK #FMAR RELY.

SMOKE/CO ALARM DEVICE — ADDRESSABLE. SMOKE AND CARBON MONOXIDE SENSOR MOUNTED TO AN ADDRESSABLE SOUNDER BASE. DEVICE TO HAVE DISTINCT SMOKE AND COSNORS AND SOUND PATTERNS. UNIT SHALL BE UL LISTED FOR JUZEB AND UL2075. SYSTEM SENSOR #FCO—851 IN CONJUNCTION WITH A SYSTEM SENSOR #E2005 INTELLIGENT SOUNDER BASE.

FIRE ALARM SMOKE DETECTOR, IN-DUCT - SEE SPECIFICATIONS

FIRE ALARM SMOKE DETECTOR, RETURN AIR - SEE SPECIFICATIONS. FIRE ALARM DUCT DETECTOR PHOTOELECTRIC TYPE - SEE SPECIFICATION

FINE ALANM DUCT DETECTOR PHOTOELECTRIC TYPE — SEE SPECIFICATIONS.
STAND ALONE DUCT DETECTORS DUCT DETECTORS SHALL BE PROVIDED ON THE SUPPLY
OF EACH ARE HANDLER EXCEEDING 2,000 FON OR ALL ARE HANDLESS SERVING A COMMON LA
BE SYSTEM SENSOR MODEL D4120, PHOTOELECTRIC TYPE (SSFN \$3240-1653-227). THE
DUCT SIMONE DETECTOR SHALL CAUSE THE RESPECTIVE ARE HANDLER UNIT TO
AUTOMATICALLY SHITDOWN. THE DUCT SMOKE DETECTOR SHALL BE PROVIDED WITH A REMOTE TESTY PRESENT INDICATOR, SYSTEM SENSOR MODEL \$475. (SSFN \$715-1653-196).
THE REMOTE TESTY PRESENT INDICATOR, SYSTEM SENSOR MODEL \$475. (SSFN \$715-1653-196).
THE ROUTE SENSOR MODEL SHALL BE PROVIDE MEANS TO RESET THE DUCT DETECTOR. THE DUCT SMOKE DETECTORS SHALL BE
INSTALLED IN ACCORDANCE WITH PIPS 90A AND APPLICABLE SECTIONS AND OF NFPA 72
— AND ARE ONLY ALLOWED WHEN SPECIFICALLY SHOWN ON PLANS.

FIRE ALARM HEAT DETECTOR, CEILING MOUNTED - SEE SPECIFICATIONS

FIRE ALARM BEAM DETECTOR - TRANSMITTER - MOUNTED AS INDICATED ON PLANS.

FIRE ALARM BEAM DETECTOR - RECEIVER - MOUNTED AS INDICATED ON PLANS. FIRE ALARM FLOW SWITCH - SEE SPECIFICATIONS.

FIRE ALARM TAMPER SWITCH - SEE SPECIFICATIONS.

FIRE ALARM POST INDICATING VALVE/OS&Y/DOUBLE BACK CHECK VALVE — SEE SPECIFICATIONS.

FIRE ALARM SYSTEM MONITOR MODULE - SEE SPECIFICATIONS. FIRE ALARM SYSTEM CONTROL MODULE - SEE SPECIFICATIONS.

FIRE ALARM SYSTEM CONTROL RELAY MODULE - SEE SPECIFICATIONS. CA FIRE MARSHAL-LISTED FIRE ALARM RELAY - SEE SPECIFICATIONS

FIRE ALARM MAGNETIC HOLD OPEN DEVICE - SEE SPECIFICATIONS. FIRE ALARM REMOTE L.E.D. INDICATOR. IF REQUIRED BY AHJ, PROVIDE REMOTE LED WITH TEST STATION.

FIRE ALARM SYSTEM FIREMANS PHONE JACK - SEE SPECIFICATIONS.



REVITALIZATION

HARBOR

POINT

DANA

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POINT H



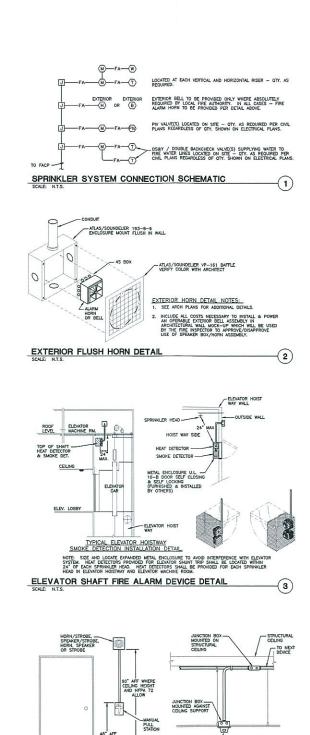


CENTRAL MONITORING SYSTEM **SPECS** 

NORTH

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AND IS FURNISHED IN CONFIDENCE FOR THE LIMITED PURPOSE OF EVALUATION, BIG OF REVIEW, THIS DOCUMENT ON ITS CONTENTS MAY NOT BE USED FOR ANY DITHE PURPOSE AND WAY NOT BE REPRODUCED OR DOCUMENT TO OTHERS WITHOUT THE PRIOR WAYTER CONSIGNO OF MAY INSTITUTIONAL, HIS MAY RECEIVED, IN



ALL POWER EIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED AS REPORTED AS REPORTE



OC DANA POINT HARBOR REVITALIZATION





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PROJECT #:	2011
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CENTRAL MONITORING SYSTEM DETAILS



CENTRAL MONITORING PLAN - LEVEL 1

# OC DANA POINT HARBOR REVITALIZATION



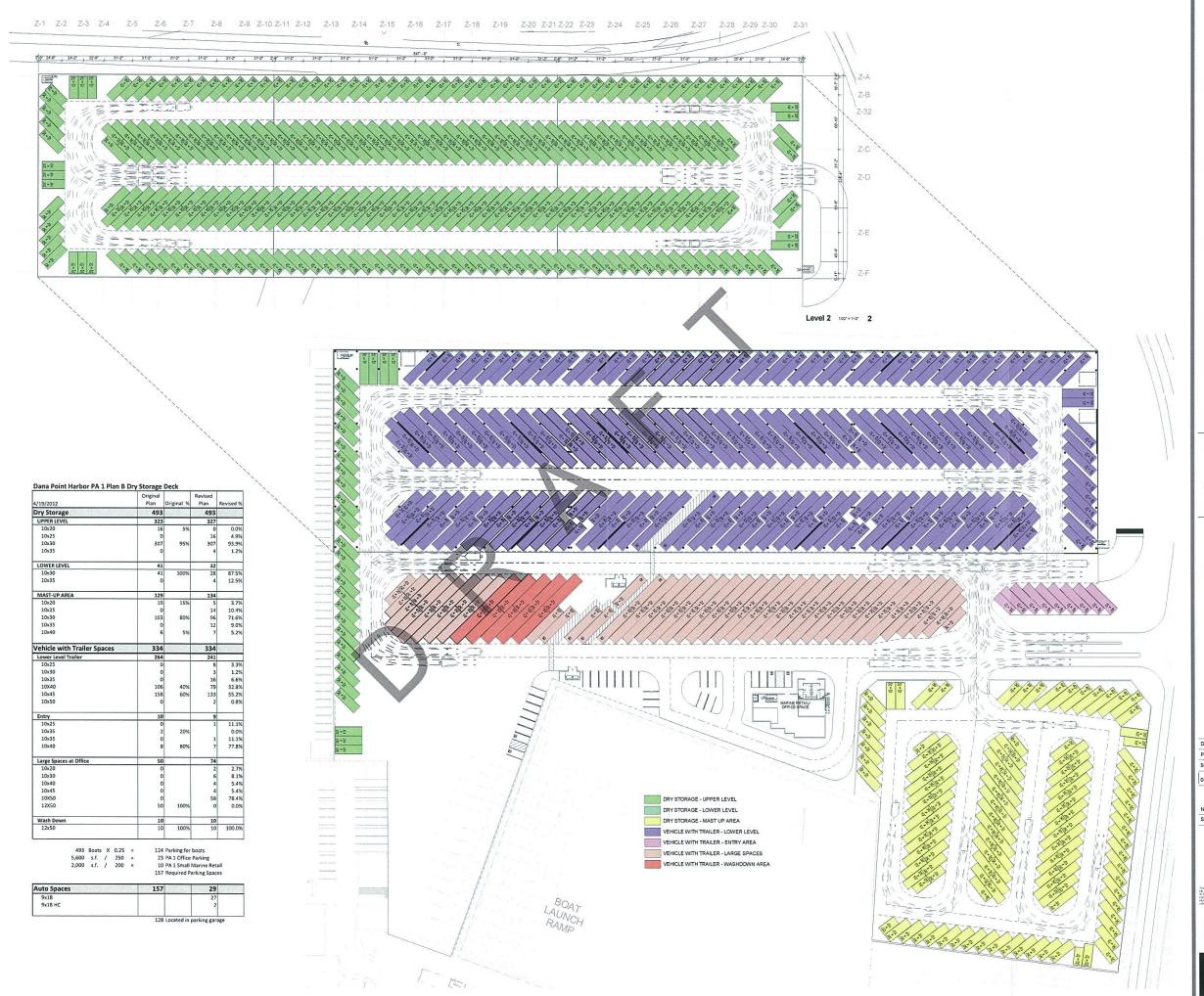


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CENTRAL MONITORING PLAN







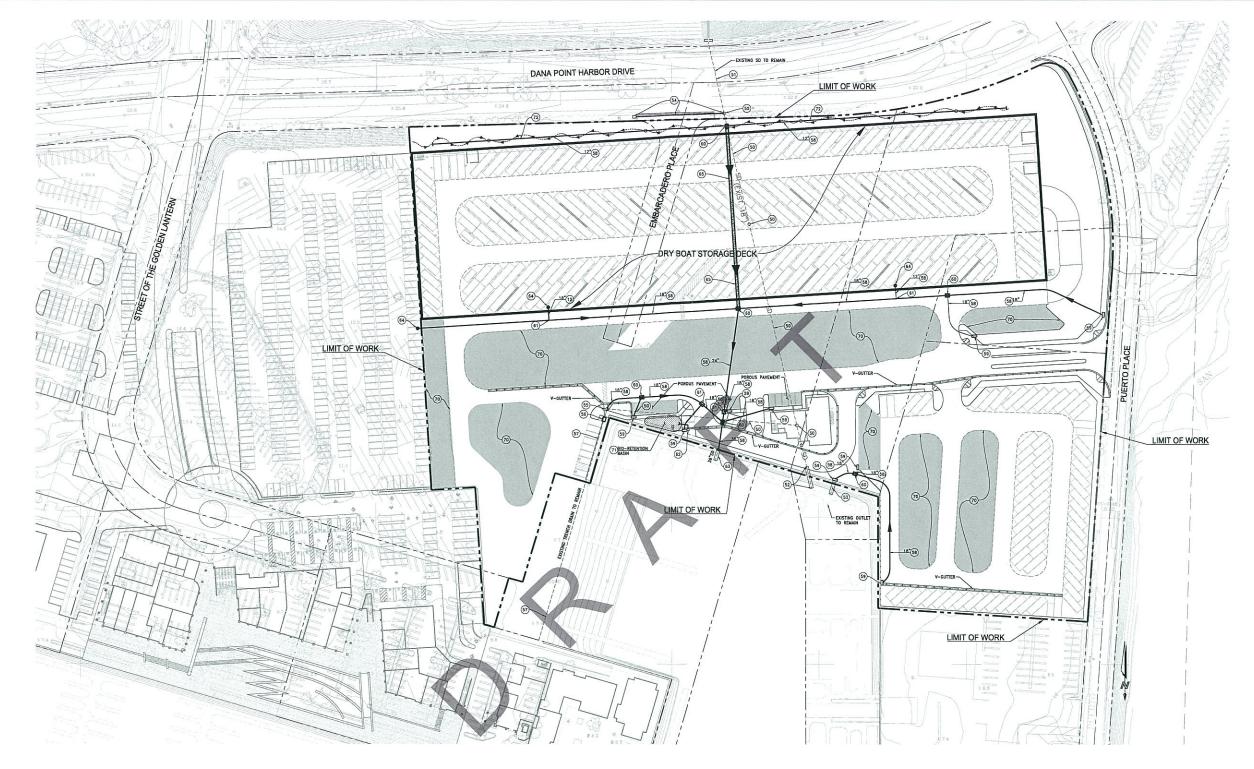
### DANA POINT HARBOR REVITALIZATION DRY BOAT STORAGE DECK ALTERNATIVE COUNTY OF DRANGE

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OC DANA POINT HARBOR REVITALIZATION
DRY BOAT STORAGE DECK ALTERNATIVE
COUNTY OF DRANGE
DANA POINT HABOR DRIVE
DANA POINT, CALFORNIA





### STORM DRAIN NOTES

- PROTECT IN PLACE EXISTING OUTLET STRUCTURE.
- PROTECT IN PLACE EXISTING 15" STORM DRAIN, CATCH BASIN, AND MANHOLE JUNCTION STRUCTURE AT DAMA POINT HARBOR DRIVE AND EMBARCADERO PLACE INTERSECTION.
- (56) PROTECT IN PLACE EXISTING STORM WATER FILTER AND D PROTECT IN PLACE EXISTING TRENCH DRAIN
- (S) CONSTRUCT CATCH BASIN (ASSUME W=3.5)
- (60) CONSTRUCT JUNCTION STRUCTURE W/ MANHOLE
- (6) CONSTRUCT JUNCTION STRUCTURE WIO MANHOLE
- (S) REMOVE EXISTING 18" OUTLET PIPE AND STRUCTURE AND REPLACE WITH A 36" OUTLET PIPE AND STRUCTURE
- (4) CONNECT STORM DRAIN LATERAL TO ROOF DRAIN
- ⊗ 16° RCP ENCASED IN 36° RCP SLEEVE W/BACKFILL

### WATER QUALITY NOTES

- (TO) CONSTRUCT POROUS PAVEMENT STRUCTURAL SECTIONS (4" CONRETE PAVERS/2" BEDDING COURSE(4" NO 57 OPEN GRADED BASE(5" NO. 2 STONE BASE)
- (7) CONSTRUCT 3' DEEP GRADED BIO-RETENTION BASIN (3:1 SIDE SLOPES) WITH GRATE INLET OUTLET STRUCTURE
- CONSTRUCT BIOSWALE WISUBDRAIN



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DRAIN AND W QUAI	ATER



**EXHIBIT** 

# OC DANA POINT HARBOR REVITALIZATION DRY BOAT STORAGE DECK ALTERNATIVE COUNTY OF ORANGE DANA POINT HABOR DRIVE DANA POINT, CALFORNIA



### PROJECT #: SCALE: 0

SEWER & WATER EXHIBIT

NORTH

SHEET#:

307.08

1" = 40"



### STREE NOTES

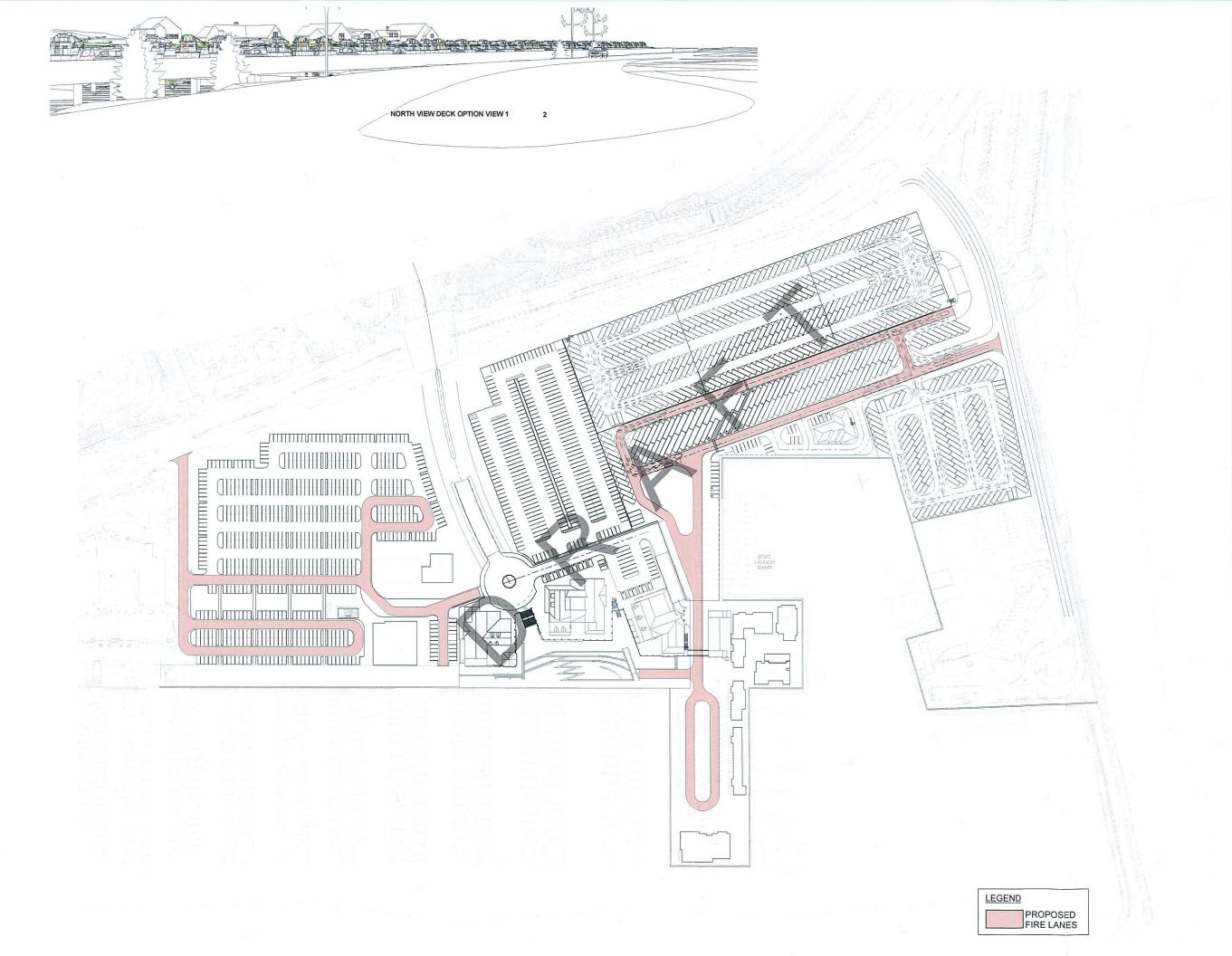
- CONSTRUCT 6" CURB & GUTTER
- 2 CONSTRUCT 6" CURB ONLY
- 3 CONSTRUCT 4' WIDE / 6" THICK CONCRETE V-GUTTER
- 4 CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB FIRE AI
- CONSTRUCT 4" THICK AC PAVEMENT OVER 8" THICK CMB ON-SITE PVM
- OTHER THAN FIRE ACCESS
- 7 CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB PUERTO PL
- CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB PL
   CONSTRUCT 4" THICK P.C.C. CURB RAMP AND CURB RETURN S
- 9 CONSTRUCT 4" THICK P.C.C. SIDEWALK
- (0) PROTECT IN PLACE EXISTING TRENCH DRAIN AND WATER QUALITY FILTER
  (11) PROTECT IN PLACE EXISTING CURB & QUITTER, P.C.C. SIDEWALK, SEA WALL, AND METAL FENCE
- (12) PROTECT IN PLACE EXISTING SEA WALL AND METAL FENCE
- 13) PROTECT IN PLACE EXISTING SEA WALL AND METAL FEN



OC DANA POINT HARBOR REVITALIZATION
DRY BOAT STORAGE DECK ALTERNATIVE
COUNTY OF ORANGE
DANA POINT HABOR DRIVE
DANA POINT, CALFORNIA

GRADING & PAVING EXHIBIT





### OC DANA POINT HARBOR REVITALIZATION

E: 04/17/ VECT#: 2011-401 LE: 1°=60 RTH EET#: A1

SITE PLAN DECK OPTION

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### DANA POINT HARBOR REVITALIZATION

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