



"RE-BUILDING THE CITY'S WATER SYSTEMS FOR THE 21ST CENTURY"

Sewerage & Water Board OF NEW ORLEANS

C. RAY NAGIN, *President*

625 ST. JOSEPH STREET
NEW ORLEANS, LA 70165 • 504-529-2837 OR 52W-ATER
www.swbnola.org

July 31, 2008

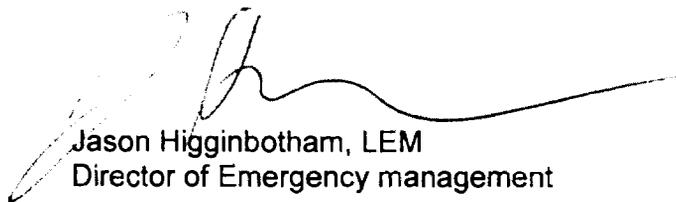
Mr. D. Casey Levy
Mitigation Section Chief
Governors Office of Homeland Security & Emergency Preparedness
415b North 15th St. 4th Floor Mitigation
Baton Rouge, LA 70802

Subject: Maintenance Responsibility Letter 404 Mitigation Application

Dear Mr. Levy,

The Sewerage & Water Board of New Orleans intends to own, operate, and maintain all facilities shown in this Grant Application, which includes 8 Sewage Pump Stations, and accepts the associated Performance Responsibilities. The 8 Sewage Pump Stations include SPS 6, SPS 8, Bullard, Dodt, Lake Forest, Lawrence, Plum Orchard, and Victoria. The approved maintenance schedule for Drainage and Sewerage operations, Departmental Policy I, Section B is attached. No increased or additional maintenance costs are anticipated at this time.

Sincerely,



Jason Higginbotham, LEM
Director of Emergency management

*Members of the Board: PIERRE E. CONNER, III • MICHAEL DARNELL • BENJAMIN L. EDWARDS, SR. • ARNIE FIELKOW • NORMA E. GRACE • BARBARA LAMONT
ALEX I. LEWIS, III. • C. RAY NAGIN • FLORENCE W. SCHORNSTEIN • GARY N. SOLOMON • CYNTHIA WILLARD-LEWIS
*An Equal Opportunity Employer**

Routine Work Schedule

This policy is established to advise all employees of their responsibility with regards to routine work schedule at the assigned facilities. The employees are to comply with this policy and work assignments as given by the supervisor(s). Also see Employee Training Manual, Phase II for more information.

I. Manned Facilities

Each manned facility, such as DPS 1 or DPS 10, has a written work schedule for every shift which must be followed. From time to time revisions to this work schedule will be made.

II. Automatic Stations (Sewer and Underpass)

Each routes, including the Underpass station route must follow the following work schedule. This work schedule is a guide to the work that must be performed on each facility. It is NOT all inclusive. There will be other duties that must be performed that are not included on this schedule. **All employees are reminded that the route operator is the immediate supervisor**, and is responsible for getting the work done on the route. If you are not the route operator, you are to comply with the directives and work assignments as given by the operator.

All personnel are expected to be at their assigned route truck and ready to leave Station "D" by 7:15 AM. The operator should not have to seek the whereabouts of the helpers assigned to him/her.

Both the operator and the assigned helper are to enter any and all stations that are being checked, or where work is being done. Helpers found sitting in the truck while the operator is in the station will receive disciplinary action in a manner similar to the attendance policy.

During the course of the workday, unless you have an emergency that has been approved by a Supervisor OR Supervisor Assistant, **do not ask to:**

- 1) Stop home or anywhere else
- 2) Go off the route
- 3) Take care of personal business
- 4) Use the telephone (except at lunch time)
- 5) Study non-SWB approved class material (except at lunch)
- 6) Sleep in the truck
- 7) Smoke in the truck

DRAINAGE & Sewerage Operations
Departmental Policy I, Section B
Revised: March 16, 1998

All employees are expected to:

- 1) Properly wear and buckle their seat belts when riding in an assigned Water Board vehicle.
- 2) Have all personal equipment that may be needed for performing work, including boots, raingear, and safety equipment. Everyone is reminded that they are personally responsible for any equipment charged to their inventory. Items lost are to be reported immediately and must be paid for.

Helpers are required to take an active part in their training by assisting in any and all work being performed and by asking questions concerning operation and maintenance procedures of the stations.

Operators are expected to take an active part in training their helpers by seeing that their helpers assist in performing any and all work being performed, and asking questions of the helper pertaining to operation and maintenance procedures.

All stations on the route are to be inspected on Monday, Wednesday and Friday. In the event of holidays and/or bad weather, these days may be changed. During your inspection on route days, you are to tend to any maintenance that requires immediate attention and make your plans as to any routine maintenance to be performed on "maintenance" days (usually Tuesday and Thursday).

Daily Work

Operator: Before leaving Station "D" check oil and gas in truck and for lawn equipment (you are responsible for mixing gas). All are to be fueled up either before you go out on your route, or in the afternoon when you are returning from your route. Likewise for supplies and/or equipment from the Yard or Station "D". You are not to return to the Yard or Station "D" during the day unless it is an emergency and your route supervisor has authorized your return. Make sure that you have all required paper work (Preventive Maintenance Work Order, Route Report, etc.), prior to leaving.

Helper: Follow directives of your operator, such as getting ice, supplies, loading tools and/or equipment onto truck, etc.

At Each Station:

Helper: Check all bearings; bearings should be checked for the proper oil level, heat,

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excess grease seepage, and any abnormal noise and heat. Check water supply to packing glands, check packing glands for heat and excess leakage. Check all grease cups and refill if half empty. Be sure all bearings and packing glands are checked with pumps running during operators test. Check all lights, except switch board lights, and change if needed (**note:** all incandescent light bulbs should have a glass cover over them. Report any that are missing to the operator). Pick up any trash and paper in station yard and around station. Discard of the trash at the dumpster by Station "D".

Operator: Check the operation of all equipment that is in service. Run each pump, sump pump, vacuum pump, and air compressor at each station. Make necessary repairs and/or replacement of equipment required for normal station operation. Check all switch board lights and change if needed. Check elevation gauges for proper operation, and insure that pumps are operating in automation at the proper levels. Bleed air compressor tanks and regulator bowls. Re-pack pumps as needed. Assist and supervise helper in his/her daily routine.

Fill in all log books (sign first initial and last name, not just initials), and Route Reports **legibly**. Print if necessary. The time you arrive and leave the station must be recorded. Record amp and kilowatt readings (if possible) on all units in the station log book. (Stations having four speed pumps - record amp and kilowatt readings for all speeds at least once a week). Route Reports must be turned in to the supervisor(s) at the end of each day. Be sure to list all equipment which needs repair or work, and make verbal reports of all problems to your supervisor upon turning in your route report.

Any problems found during your station inspection that hamper normal operations are to be reported to your route supervisor **immediately**. Do not wait until later in the day. If you are unable to contact your assigned route supervisor via radio, have him/her beeped. If no response is received within five (5) minutes, contact another route supervisor.

Weekly Work

Helper: Clean upper and lower level floors. Sweep and mop upper level floors, and hose down lower levels and steps. Dust and wipe down all equipment, using Varsol or degreaser if necessary. Dust switch boards. Clean all bathroom facilities and be sure that all facilities are in working order. Clean sump pits and sump pumps. Cut grass and edge around fences, cut down trees growing in and over fences. Cut grass growing in cracks of station yard and surrounding sidewalks. If no weed eater is available you are to use a flat shovel to clear the cracks. Load all trash on truck for dumping in the dumpster by Station "D", at the end of the day.

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Operator: Check all station equipment as per daily work schedule. Assist and supervise helper in all his/her work. **Never leave helper unsupervised.** The operator should assign specific work for the helper to perform during this time. Thoroughly check all stations for which complaints have been received since the previous daily check. Operate all valves in station. Be sure the valves are left in the proper operating position, and grease all valve stems before operating. The following tasks are to be performed weekly:

1. Air compressor and bubbler system: Check operations, flow meter, drain condensate, clean exterior, inspect tubing.
2. Ventilation: Check for proper operation.
3. Coupling: Inspect and lubricate.
4. Main pumps and vacuum pump: Check operations, packing/seals, vibration, and vacuum system.
5. Valves: Inspect, clean, adjust packing.
6. Sump pumps: Check operations, inspect and clean pit.
7. Gauges: Record load current, voltage, KW, pressure, vacuum, temperature, and elevation.
8. Wet well: Inspect condition of well and its cover.
9. Station building: Check locks, light, doors, grass, housekeeping, and electrical cut off switch.
10. Check all Gauges, switches, indicating lights, etc.,
11. Motors: inspect brush/bearings, ring/magnet, over heat., lubricate bearings.
12. Related other work

Monthly

Operators: Purge bubbler tubes. Check all discharge pressure gauges and elevation gauges to make sure they read zero (0) when disconnected from system. Check all other gauges in station for proper operation. Grease all pumps and equipment in the stations assigned for each day during the first week of each month. Check the operation of the normal operation feeder and emergency feeder, and make sure that the change over switch operates properly. The following tasks are to be performed monthly:

1. Air compressors: Check bolt tension, operate safety valve, tighten bolts.
2. Crane: Lubricate bearing, wheels, gears, check control, inspect rope, hood, check operation.
3. Main pump: Inspect drive shaft, belts and sheaves.
4. Valves: Exercise, and lubricate.

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5. Station building: Inspect structural steel, ladders, flooring, grating, roof, fencing, walls, windows.
6. Ventilation: Check belt tension.
7. Main pump motor: Clean brushes, ring, and clean exterior.
8. Related other work

Quarterly

Operators: Operate station isolation valve. Record number of turns and direction to open/close on your route sheet. The following tasks are to be performed quarterly:

1. Air compressors: Change oil, inspect compressor valves.
2. Main pumps: Lubricate bearings.
3. Related other work

Semi-annually

Operators: Grease all pumps and motors that use grease. The following tasks are to be performed semi-annually:

1. Ventilation: Inspect, clean wheels/ fan blades.
2. Main pumps: Inspect packing/ seals, replace if necessary.
3. Lighting: check operations and clean.
4. Related other work

Annually

Operators: The following tasks are to be performed annually:

1. Ventilation: Lubricate bearings.
2. Wet wells: Inspect cracks and leaks, report your findings to your supervisor(s).
3. Bubbler system: Replace tubing and/or fittings as needed.
4. Air compressor: Lubricate bearings.
5. Sump pump: Inspect bearings (if applicable).
6. Related other work



DRAINAGE & SEWERAGE OPERATIONS

DAILY CHECK LIST FOR UNMANNED STATIONS

DATE: _____ ROUTE: _____ FACILITY: _____ PUMPS ON "AUTO" (LEAD/LAG SEQUENCE) _____

TIME IN: _____ OUT: _____ CREW: _____ WETWELL ELEV. _____ ft. DISC. PRESS. _____ psi WATER PRESS. _____

N/A OK PBLM VERIFY:

- 1. Blowers
- 2. Exhaust fans (including control room)
- 3. Condition of lights (inside/outside)
- 4. Position of transfer switches

SUMP PUMPS: (Primary and Backup)

- 5. Operation on "hand" and "auto"
- 6. Condition of sump pit (keep clean)

MOTORS:

- 7. Verify operation in "hand/auto" mode
- 8. Audible check for foreign sound
- 9. Brush condition
- 10. Arcing of brushes
- 11. Collector ring condition
- 12. Check **upper** oil level
- 13. Check **lower** oil level
- 14. Grid banks/Control room (general inspection)

PUMPS:

- 15. Check packing (adjust/replace if needed)
- 16. Check oil levels in reservoir
- 17. Check oil drips, grease cups, grease fittings
- 18. Check belts and guards
- 19. Visual and audio check

VACUUM PUMPS:

- 20. Check packing (adjust if needed)
- 21. Verify operation in "hand/auto" mode
- 22. Check oil levels in reservoir
- 23. Visual and audio check

AIR COMPRESSORS / BUBBLERS:

- 24. Bleed tank
- 25. Check and bleed filter regulator
- 26. Verify system air flow

GAUGES/INSTRUMENTATION

- 27. Compressor, regulator, elevation
- 28. Amps, kilowatts
- 29. Vacuum

PIPING AND VALVES:

- 30. Visual inspection for leaks, cracks
- 31. Check proper valve position
- 32. Condition of backflow preventer

N/A OK PBLM SITE AND STRUCTURE:

- 33. Remove debris from site (inside & outside)

- 34. General visual inspection including: building structure, gratings, ladders, hatch, doors, windows, roof, gutter cans, lawn, fence, etc.

Motor	ET/Hour Meter	KW	Spd	Amps
#				
#				
#				
#				
#				
#				
#				
#				
#				
#				

EQUIPMENT OUT OF SERVICE AND REASON:

OTHERS WORKING IN STATION:

NOTE: ALL LINE ITEMS CHECKED AS PROBLEMS ARE TO BE LISTED BY NUMBER AND DESCRIBED.

Line #	Descri

Additional comments/not

VERIFY THAT ALL EQUIP THE PROPER POSITION, AN

VII MAINTENANCE AGREEMENT**Elevation of 8 Sewage Pump Stations (1603-071-0006)**

All applicants whose proposed project involves the retrofit or modification of existing public property or whose proposed project would result in the public ownership or management of property, structures, or facilities, must first sign the following agreement prior to submitting their application to FEMA.

(NOTE: those applicants whose project only involves the retrofitting, elevation, or other modification to private property where the ownership will remain private after project completion DO NOT have to complete this form.)

The **Sewerage and Water Board of New Orleans**, State of Louisiana, hereby agrees that if it receives any Federal aid as a result of the attached project application, it will accept responsibility, at its own expense if necessary, for the routine maintenance of the **8 Sewage Pump Stations** reconstructed as a result of such Federal aid. **These 8 Sewage Pump Stations include SPS 6, SPS 8, Bullard, Dodt, Lake Forest, Lawrence, Plum Orchard, and Victoria.** Routine maintenance shall include, but not be limited to, such responsibilities as keeping vacant land clear of debris, garbage, and vermin; keeping stream channels, culverts, and storm drains clear of obstructions and debris; and keeping detention ponds free of debris, trees, and woody growth. **The approved maintenance schedule for Drainage and Sewerage operations, Departmental Policy I, Section B is attached. No increased or additional maintenance costs are anticipated at this time.**

The purpose of this agreement is to make clear the Subgrantee's maintenance responsibilities following project award and to show the Subgrantee's acceptance of these responsibilities. It does not replace, supercede, or add to any other maintenance responsibilities imposed by Federal law or regulation and which are in force on the date of project award.

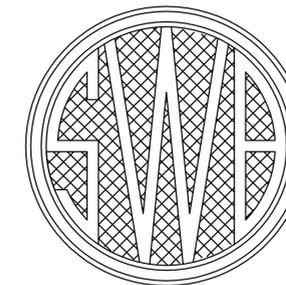
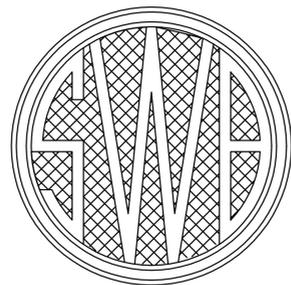
Signed by Marcia A St. Martin the duly authorized

Executive Director of The Sewerage and Water Board,

this 21 (day) of November (month), 2008 (year).

Signature Marcia A. St. Martin **Applicants Certification**

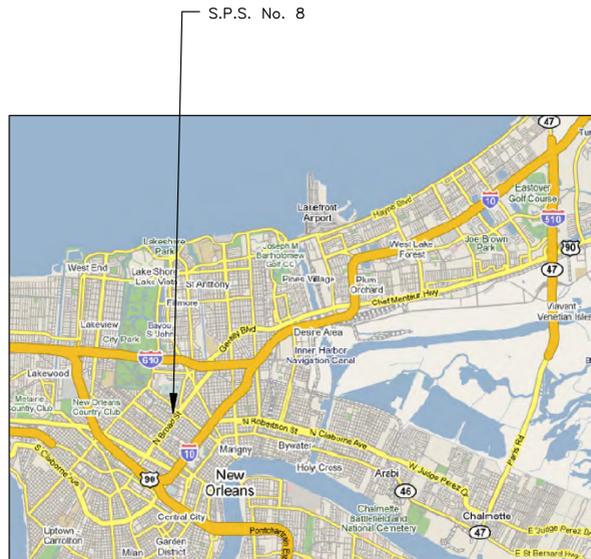
SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE PUMPING STATION NO. 8

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23	12029-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN				
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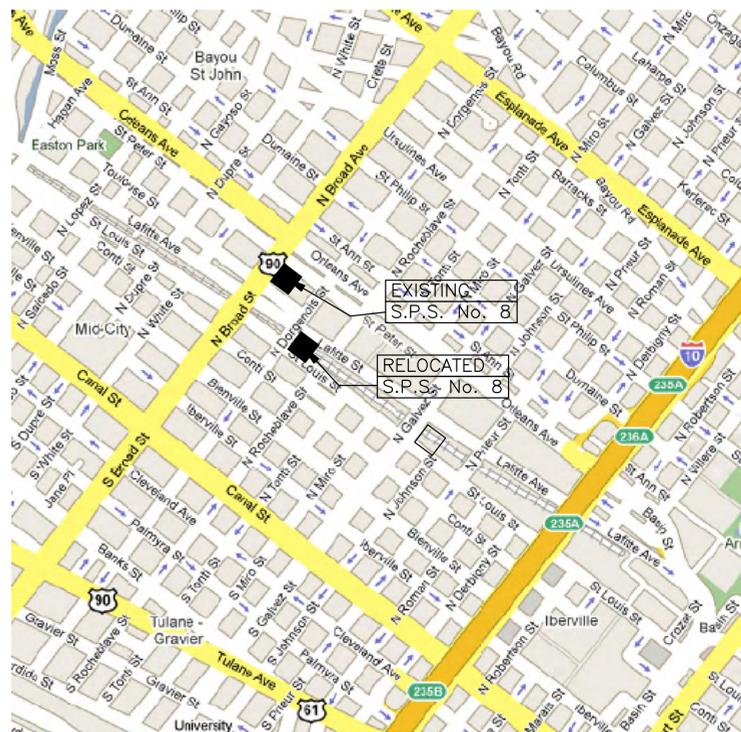
VICINITY MAP
AREA MAP NO SCALE

REVISED FINAL PLANS
THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.
John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
9-19-11

REVISED FINAL SUBMITTAL
SEPTEMBER 2011
NOT FOR CONSTRUCTION
 DESIGN ENGINEERING INC.
3330 West Esplanade Ave. S.
Suite 205
Metairie, LA 70002
(504) 836-2155

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
TITLE SHEET			
DR. TH/BD			
TRC. --			
CK. DS/CW			GENERAL SUPERINTENDENT
AP. JH			
SCALE: NONE		DWG. No. 12029-W-63	
DATE: SEPTEMBER 2011	SET NO.		SHEET NO. 1

DESIGN ENGINEERING INC.
3330 West Esplanade Ave. S.
Suite 205
Metairie, LA 70002
(504) 836-2155



2550 LAFITTE STREET
(AT SOUTHEAST CORNER OF
LAFITTE STREET AND N. DORGENOIS STREET)
LOCATION MAP - S.P.S. No. 8

AREA MAP NO SCALE

GENERAL NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS IN ORDER TO OBTAIN A FULL UNDERSTANDING OF WORK TO BE DONE.
2. PRIOR TO ANY DEMOLITION, CLEARING AND OR EXCAVATION (IF NEEDED), THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BY CALLING LOUISIANA ONE CALL AT 1-800-272-3020.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED TO EXISTING STRUCTURES AND UTILITIES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE SWBNO.
4. CONTRACTOR SHALL CONTACT PROJECT MANAGER'S OFFICE IMMEDIATELY CONCERNING ANY CONFLICTS THAT ARISE DURING THE COURSE OF CONSTRUCTION ACTIVITIES.
5. THE EXISTING PUMPING STATION SHALL REMAIN IN SERVICE AS LONG AS POSSIBLE DURING CONSTRUCTION OF THE NEW STATION. WHEN THE EXISTING STATION IS NO LONGER OPERABLE, THE CONTRACTOR SHALL PROVIDE TEMPORARY BY-PASS PUMPING IN ACCORDANCE WITH SECTION 13 OF THE SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOTIFY THE SWBNO AND THE PROGRAM MANAGER IF THEY PLAN TO WORK ON A SWBNO HOLIDAY OR A WEEKEND DAY. THE SWBNO HAS THE FINAL AUTHORIZATION ON WORK PERFORMED THAT IS NOT ON REGULAR WORK DAYS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS (POT-HOLING) TO DETERMINE THE LOCATION OF EXISTING UTILITIES AFFECTED BY THIS CONSTRUCTION AND SHALL REPORT HIS FINDINGS TO THE BOARD ENGINEER. THE CONTRACTOR SHALL INCLUDE IN HIS BID, EXPLORATORY EXCAVATIONS FOR A MINIMUM OF TEN (10) LOCATIONS, HAVING A DEPTH RANGING FROM FIVE FEET TO TWELVE FEET.
8. ALL WORK SHALL CONFORM TO THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS (CNO-DPW), THE SEWERAGE AND WATER BOARD OF NEW ORLEANS(SWBNO), LOUISIANA DEPARTMENT OF PUBLIC HOSPITALS (DHH) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF DIRT AND DEBRIS FROM STREETS AND ROADWAYS AND PROJECT SITE GENERATED BY CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ADJACENT PAVEMENT AND FENCING WHICH RESULTS FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE SWBNO.
11. CONTRACTOR SHALL CLEAN AND PAINT ALL EXPOSED SURFACES OF MECHANICAL EQUIPMENT, PIPING, PIPE SUPPORTS, AND OTHER ELEMENTS IN ACCORDANCE WITH SECTION 11 OF THE SPECIFICATIONS.
12. CONTRACTOR SHALL VERIFY PUMP STATION DIMENSIONS WITH EQUIPMENT MANUFACTURER'S SHOP DRAWINGS TO ENSURE PROPER FIT WITHIN THE STRUCTURE.
13. CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND IMPROVEMENTS FROM DAMAGE AND REPLACE ANY PORTIONS DAMAGED THROUGH HIS OPERATION AT HIS OWN EXPENSE. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE SWBNO.
14. CONTRACTOR SHALL RE-GRADE ALL AREAS ALTERED BY CONSTRUCTION ACTIVITIES TO PROVIDE POSITIVE DRAINAGE. ALL WORK SHALL BE IN A MANNER ACCEPTABLE TO THE SWBNO.
15. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE TO THOSE AFFECTED BY CONSTRUCTION ACTIVITIES THAT MAY DISRUPT WATER, SEWER, OR OTHER UTILITY SERVICES. UTILITY SERVICES SHALL BE PROMPTLY REPAIRED AND SHALL NOT REMAIN OUT OF SERVICE OVERNIGHT.
16. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATION TO ENSURE MINIMAL INCONVENIENCE TO THE GENERAL PUBLIC, ADJACENT PROPERTY OWNERS, AND BUSINESSES. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL PROPERTIES AND TRAFFIC FLOW IN ROADWAYS AT ALL TIMES.
17. ALL GRASS AREAS ALTERED SHALL BE SEEDED, FERTILIZED, WATERED, AND MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL WATER DAILY FROM SEEDING UNTIL 2 WEEKS AFTER GERMINATION.
18. THE CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES:

SEWERAGE AND WATER BOARD OF NEW ORLEANS

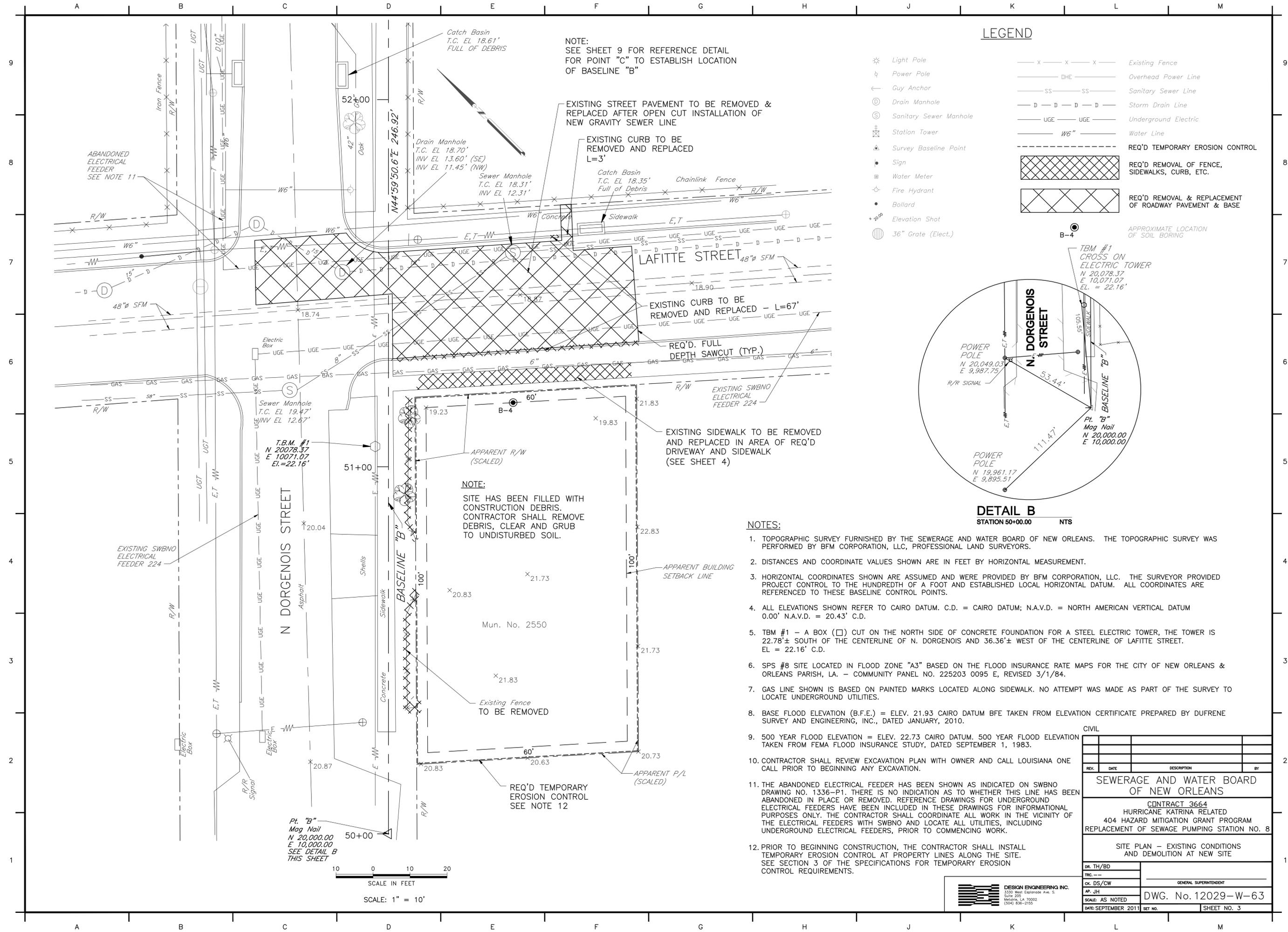
BKI: DENNIS GARRARD 504-486-5901

LOUISIANA ONE CALL - 1-800-272-3020
19. ALL MISCELLANEOUS METAL WORK, INCLUDING PIPE SUPPORTS AND BRACKETS TO BE INSTALLED WITHIN THE WET WELL SHALL BE MANUFACTURED ENTIRELY OF TYPE 316 STAINLESS STEEL. LIKEWISE, ALL FASTENERS, INCLUDING ANCHOR BOLTS INSTALLED WITHIN THE WET WELL SHALL BE MANUFACTURED OF STAINLESS STEEL. THREADS OF ALL STAINLESS STEEL FASTENERS SHALL BE TREATED WITH AN ANTI-SEIZE COMPOUND FORMULATED FOR USE WITH STAINLESS STEEL, SUCH AS "PURE NICKEL SPECIAL ANTI SEIZE COMPOUND", MANUFACTURED BY "NEVER-SEEZ", OR EQUAL.
20. COMPLETED INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS, LOCAL CODES, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
21. ALL ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED OR RELOCATED FROM EXISTING FACILITIES, IN ACCORDANCE WITH SECTION 15 OF THE SPECIFICATIONS.
22. NAMEPLATES CONTAINING PERTINENT DATA SHALL BE INSTALLED ON ALL THE EQUIPMENT THAT IS INSTALLED BY THE CONTRACTOR.
23. TESTING SHALL BE PERFORMED BY QUALIFIED TESTING AGENCIES AND FIELD SERVICE COMPANIES AS NECESSARY TO AUGMENT THE CONTRACTOR'S OWN CAPABILITIES. TESTING AND REPORTING METHODS SHALL COMPLY WITH APPLICABLE CITY OF NEW ORLEANS STANDARDS. ALL TEST RESULTS SHALL BE PUBLISHED ON THE CONTRACTOR'S OR TESTING COMPANY'S LETTERHEAD OR TEST FORMS BEARING THE LEGAL NAME AND ADDRESS OF THE COMPANY.
24. THE NEW STRUCTURES SHOWN ARE TO BE TIED INTO EXISTING PIPING. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS THAT RELATE TO NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OR CONSTRUCTION.
25. CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS (CNO-DPW) STANDARD DRAWINGS ARE AVAILABLE FROM THE CNO-DPW ENGINEERING DIVISION, CITY HALL, 1300 PERDIDO STREET, ROOM 6W03, NEW ORLEANS, LOUISIANA 70012, OR ONLINE AT www.nola.gov.

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
LOCATION MAP/GENERAL NOTES			
DR. TH/BD			
TRC. ---			
CK. DS/CW	GENERAL SUPERINTENDENT		
AP. JH			
SCALE: NONE	DWG. No. 12029-W-63		
DATE: SEPTEMBER 2011	SET NO.	SHEET NO. 2	

DESIGN ENGINEERING INC.
3330 West Esplanade Ave. S.
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Metairie, LA 70002
(504) 836-2126

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NOTE:
SEE SHEET 9 FOR REFERENCE DETAIL
FOR POINT "C" TO ESTABLISH LOCATION
OF BASELINE "B"

EXISTING STREET PAVEMENT TO BE REMOVED &
REPLACED AFTER OPEN CUT INSTALLATION OF
NEW GRAVITY SEWER LINE

EXISTING CURB TO BE
REMOVED AND REPLACED
L=3'

EXISTING CURB TO BE
REMOVED AND REPLACED - L=67'

REQ'D FULL
DEPTH SAWCUT (TYP.)

EXISTING SIDEWALK TO BE REMOVED
AND REPLACED IN AREA OF REQ'D
DRIVEWAY AND SIDEWALK
(SEE SHEET 4)

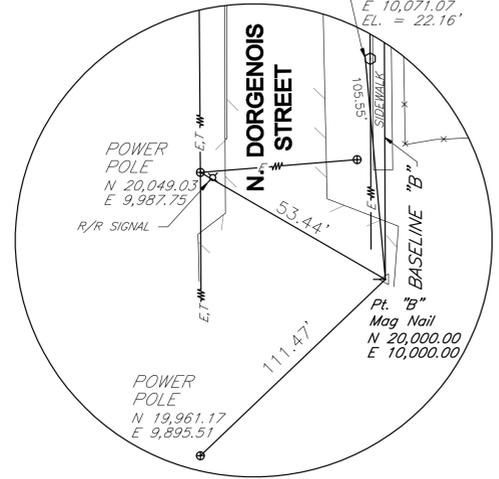
NOTE:
SITE HAS BEEN FILLED WITH
CONSTRUCTION DEBRIS.
CONTRACTOR SHALL REMOVE
DEBRIS, CLEAR AND GRUB
TO UNDISTURBED SOIL.

NOTES:

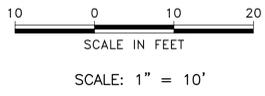
- TOPOGRAPHIC SURVEY FURNISHED BY THE SEWERAGE AND WATER BOARD OF NEW ORLEANS. THE TOPOGRAPHIC SURVEY WAS PERFORMED BY BFM CORPORATION, LLC, PROFESSIONAL LAND SURVEYORS.
- DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT.
- HORIZONTAL COORDINATES SHOWN ARE ASSUMED AND WERE PROVIDED BY BFM CORPORATION, LLC. THE SURVEYOR PROVIDED PROJECT CONTROL TO THE HUNDRETH OF A FOOT AND ESTABLISHED LOCAL HORIZONTAL DATUM. ALL COORDINATES ARE REFERENCED TO THESE BASELINE CONTROL POINTS.
- ALL ELEVATIONS SHOWN REFER TO CAIRO DATUM. C.D. = CAIRO DATUM; N.A.V.D. = NORTH AMERICAN VERTICAL DATUM 0.00' N.A.V.D. = 20.43' C.D.
- TBM #1 - A BOX (□) CUT ON THE NORTH SIDE OF CONCRETE FOUNDATION FOR A STEEL ELECTRIC TOWER, THE TOWER IS 22.78'± SOUTH OF THE CENTERLINE OF N. DORGENOIS AND 36.36'± WEST OF THE CENTERLINE OF LAFITTE STREET. EL = 22.16' C.D.
- SPS #8 SITE LOCATED IN FLOOD ZONE "A3" BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 225203 0095 E, REVISED 3/1/84.
- GAS LINE SHOWN IS BASED ON PAINTED MARKS LOCATED ALONG SIDEWALK. NO ATTEMPT WAS MADE AS PART OF THE SURVEY TO LOCATE UNDERGROUND UTILITIES.
- BASE FLOOD ELEVATION (B.F.E.) = ELEV. 21.93 CAIRO DATUM BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DUFRENE SURVEY AND ENGINEERING, INC., DATED JANUARY, 2010.
- 500 YEAR FLOOD ELEVATION = ELEV. 22.73 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
- CONTRACTOR SHALL REVIEW EXCAVATION PLAN WITH OWNER AND CALL LOUISIANA ONE CALL PRIOR TO BEGINNING ANY EXCAVATION.
- THE ABANDONED ELECTRICAL FEEDER HAS BEEN SHOWN AS INDICATED ON SWBNO DRAWING NO. 1336-P1. THERE IS NO INDICATION AS TO WHETHER THIS LINE HAS BEEN ABANDONED IN PLACE OR REMOVED. REFERENCE DRAWINGS FOR UNDERGROUND ELECTRICAL FEEDERS HAVE BEEN INCLUDED IN THESE DRAWINGS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE ALL WORK IN THE VICINITY OF THE ELECTRICAL FEEDERS WITH SWBNO AND LOCATE ALL UTILITIES, INCLUDING UNDERGROUND ELECTRICAL FEEDERS, PRIOR TO COMMENCING WORK.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL AT PROPERTY LINES ALONG THE SITE. SEE SECTION 3 OF THE SPECIFICATIONS FOR TEMPORARY EROSION CONTROL REQUIREMENTS.

LEGEND

- ⊛ Light Pole
- ⊙ Power Pole
- ← Guy Anchor
- ⊕ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊕ Station Tower
- ⊕ Survey Baseline Point
- ⊕ Sign
- ⊕ Water Meter
- ⊕ Fire Hydrant
- ⊕ Bollard
- ⊕ Elevation Shot
- ⊕ 36" Grate (Elect.)
- x — x — x — Existing Fence
- DHE — Overhead Power Line
- SS — Sanitary Sewer Line
- D — D — D — Storm Drain Line
- UGE — Underground Electric
- W6" — Water Line
- REQ'D TEMPORARY EROSION CONTROL
- ▨ REQ'D REMOVAL OF FENCE, SIDEWALKS, CURB, ETC.
- ▨ REQ'D REMOVAL & REPLACEMENT OF ROADWAY PAVEMENT & BASE



DETAIL B
STATION 50+00.00 NTS



CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
SITE PLAN - EXISTING CONDITIONS AND DEMOLITION AT NEW SITE			
DR. TH/BD			
TRC. --			
CK. DS/CW			
AP. JH			
SCALE: AS NOTED			
DATE: SEPTEMBER 2011	SET NO.		

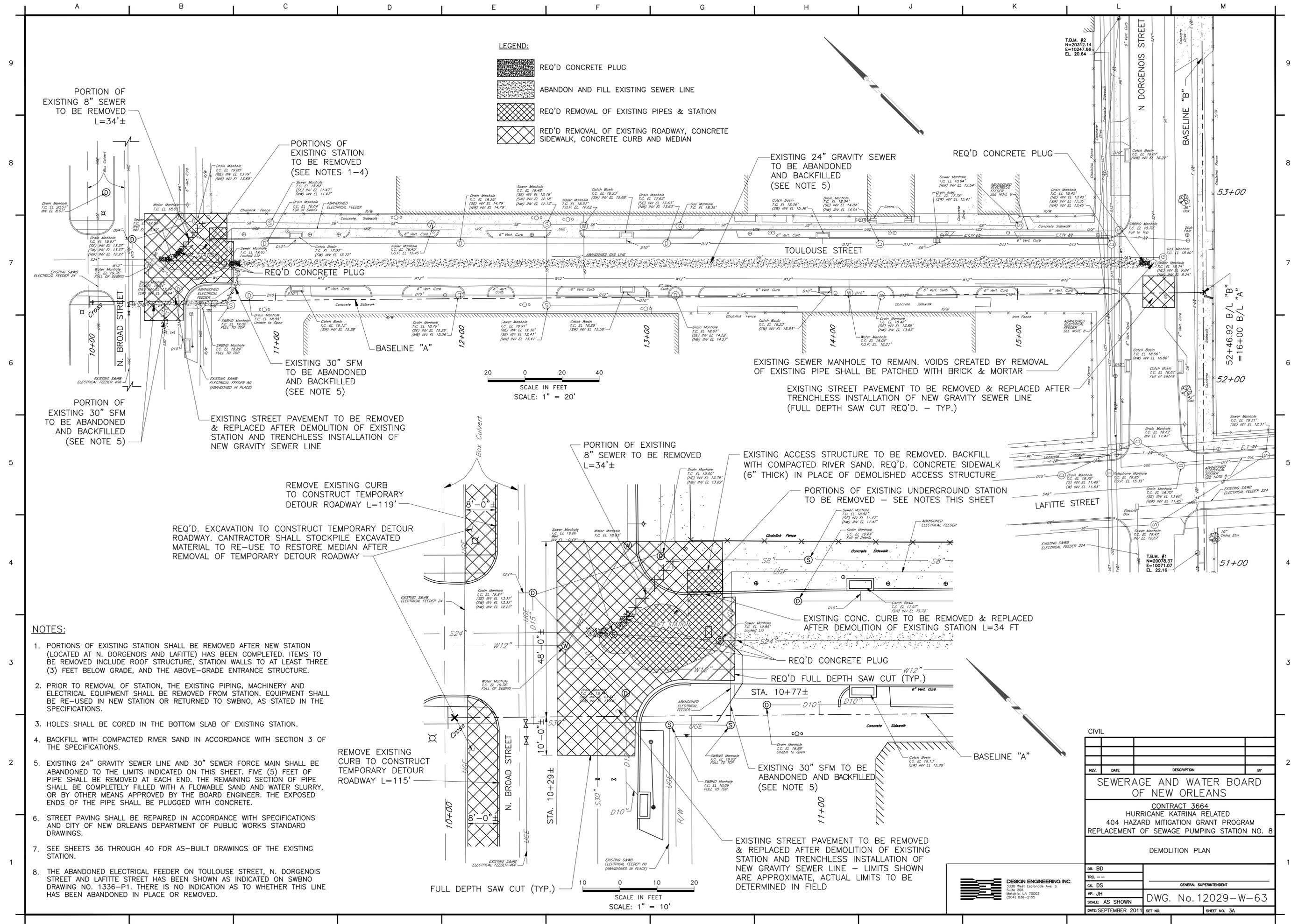
DESIGN ENGINEERING INC.
3330 West Esplanade, Suite 205
Metairie, LA 70002
(504) 836-2155

GENERAL SUPERINTENDENT
DWG. No. 12029-W-63
SHEET NO. 3

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LEGEND:

-  REQ'D CONCRETE PLUG
-  ABANDON AND FILL EXISTING SEWER LINE
-  REQ'D REMOVAL OF EXISTING PIPES & STATION
-  REQ'D REMOVAL OF EXISTING ROADWAY, CONCRETE SIDEWALK, CONCRETE CURB AND MEDIAN



PORTION OF EXISTING 8" SEWER TO BE REMOVED L=34'±

PORTIONS OF EXISTING STATION TO BE REMOVED (SEE NOTES 1-4)

EXISTING 24" GRAVITY SEWER TO BE ABANDONED AND BACKFILLED (SEE NOTE 5)

REQ'D CONCRETE PLUG

REQ'D CONCRETE PLUG

EXISTING 30" SFM TO BE ABANDONED AND BACKFILLED (SEE NOTE 5)

EXISTING SEWER MANHOLE TO REMAIN. VOIDS CREATED BY REMOVAL OF EXISTING PIPE SHALL BE PATCHED WITH BRICK & MORTAR

EXISTING STREET PAVEMENT TO BE REMOVED & REPLACED AFTER TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER LINE (FULL DEPTH SAW CUT REQ'D. - TYP.)

PORTION OF EXISTING 30" SFM TO BE ABANDONED AND BACKFILLED (SEE NOTE 5)

EXISTING STREET PAVEMENT TO BE REMOVED & REPLACED AFTER DEMOLITION OF EXISTING STATION AND TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER LINE

REMOVE EXISTING CURB TO CONSTRUCT TEMPORARY DETOUR ROADWAY L=119'

REQ'D. EXCAVATION TO CONSTRUCT TEMPORARY DETOUR ROADWAY. CONTRACTOR SHALL STOCKPILE EXCAVATED MATERIAL TO RE-USE TO RESTORE MEDIAN AFTER REMOVAL OF TEMPORARY DETOUR ROADWAY

PORTION OF EXISTING 8" SEWER TO BE REMOVED L=34'±

EXISTING ACCESS STRUCTURE TO BE REMOVED. BACKFILL WITH COMPACTED RIVER SAND. REQ'D. CONCRETE SIDEWALK (6" THICK) IN PLACE OF DEMOLISHED ACCESS STRUCTURE

PORTIONS OF EXISTING UNDERGROUND STATION TO BE REMOVED - SEE NOTES THIS SHEET

EXISTING CONC. CURB TO BE REMOVED & REPLACED AFTER DEMOLITION OF EXISTING STATION L=34 FT

NOTES:

1. PORTIONS OF EXISTING STATION SHALL BE REMOVED AFTER NEW STATION (LOCATED AT N. DORGENOIS AND LAFITTE) HAS BEEN COMPLETED. ITEMS TO BE REMOVED INCLUDE ROOF STRUCTURE, STATION WALLS TO AT LEAST THREE (3) FEET BELOW GRADE, AND THE ABOVE-GRADE ENTRANCE STRUCTURE.
2. PRIOR TO REMOVAL OF STATION, THE EXISTING PIPING, MACHINERY AND ELECTRICAL EQUIPMENT SHALL BE REMOVED FROM STATION. EQUIPMENT SHALL BE RE-USED IN NEW STATION OR RETURNED TO SWBNO, AS STATED IN THE SPECIFICATIONS.
3. HOLES SHALL BE CORED IN THE BOTTOM SLAB OF EXISTING STATION.
4. BACKFILL WITH COMPACTED RIVER SAND IN ACCORDANCE WITH SECTION 3 OF THE SPECIFICATIONS.
5. EXISTING 24" GRAVITY SEWER LINE AND 30" SEWER FORCE MAIN SHALL BE ABANDONED TO THE LIMITS INDICATED ON THIS SHEET. FIVE (5) FEET OF PIPE SHALL BE COMPLETELY FILLED WITH A FLOWABLE SAND AND WATER SLURRY, OR BY OTHER MEANS APPROVED BY THE BOARD ENGINEER. THE EXPOSED ENDS OF THE PIPE SHALL BE PLUGGED WITH CONCRETE.
6. STREET PAVING SHALL BE REPAIRED IN ACCORDANCE WITH SPECIFICATIONS AND CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD DRAWINGS.
7. SEE SHEETS 36 THROUGH 40 FOR AS-BUILT DRAWINGS OF THE EXISTING STATION.
8. THE ABANDONED ELECTRICAL FEEDER ON TOULOUSE STREET, N. DORGENOIS STREET AND LAFITTE STREET HAS BEEN SHOWN AS INDICATED ON SWBNO DRAWING NO. 1336-P1. THERE IS NO INDICATION AS TO WHETHER THIS LINE HAS BEEN ABANDONED IN PLACE OR REMOVED.

REMOVE EXISTING CURB TO CONSTRUCT TEMPORARY DETOUR ROADWAY L=115'

EXISTING 30" SFM TO BE ABANDONED AND BACKFILLED (SEE NOTE 5)

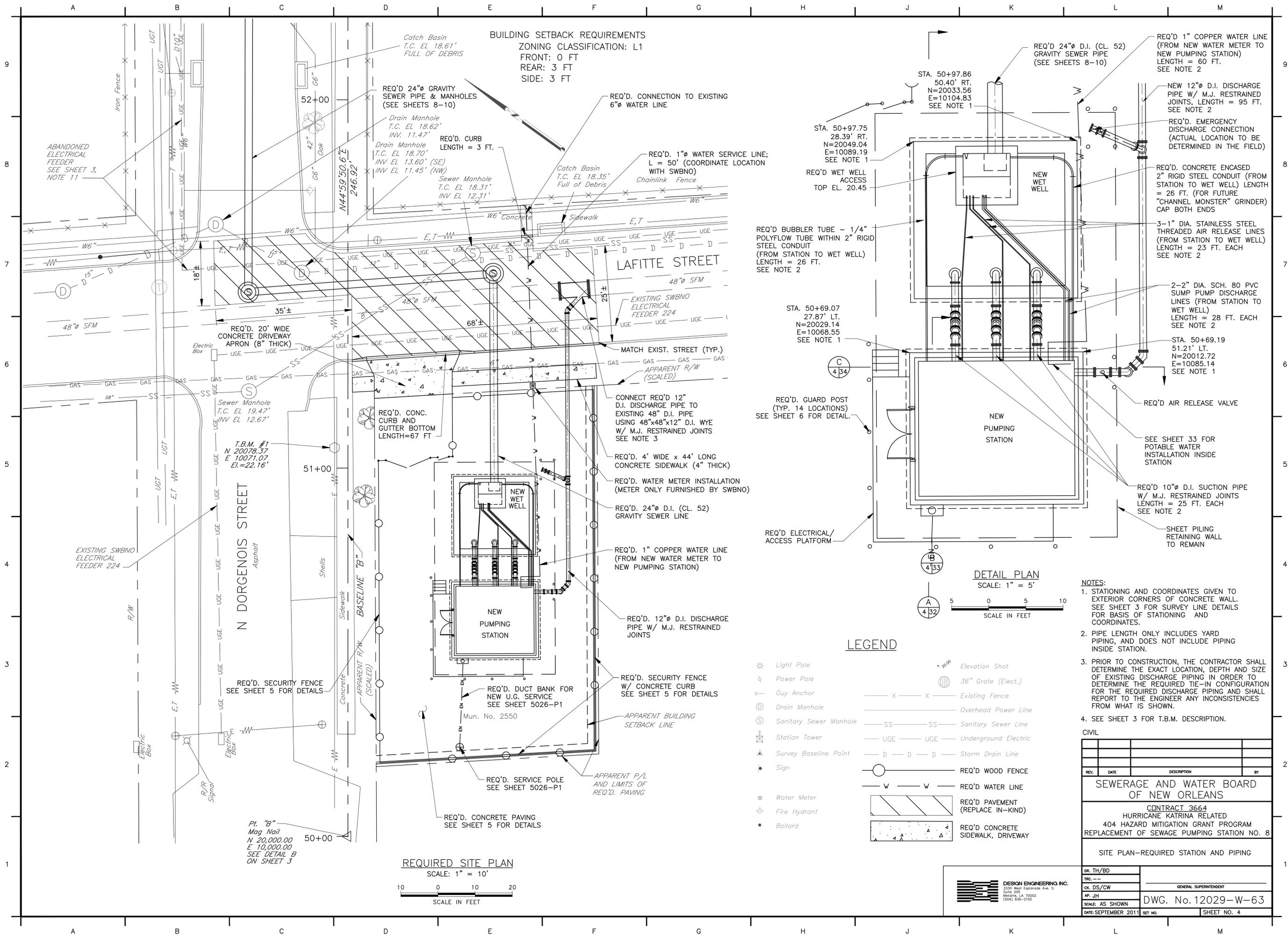
EXISTING STREET PAVEMENT TO BE REMOVED & REPLACED AFTER DEMOLITION OF EXISTING STATION AND TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER LINE - LIMITS SHOWN ARE APPROXIMATE, ACTUAL LIMITS TO BE DETERMINED IN FIELD

FULL DEPTH SAW CUT (TYP.)

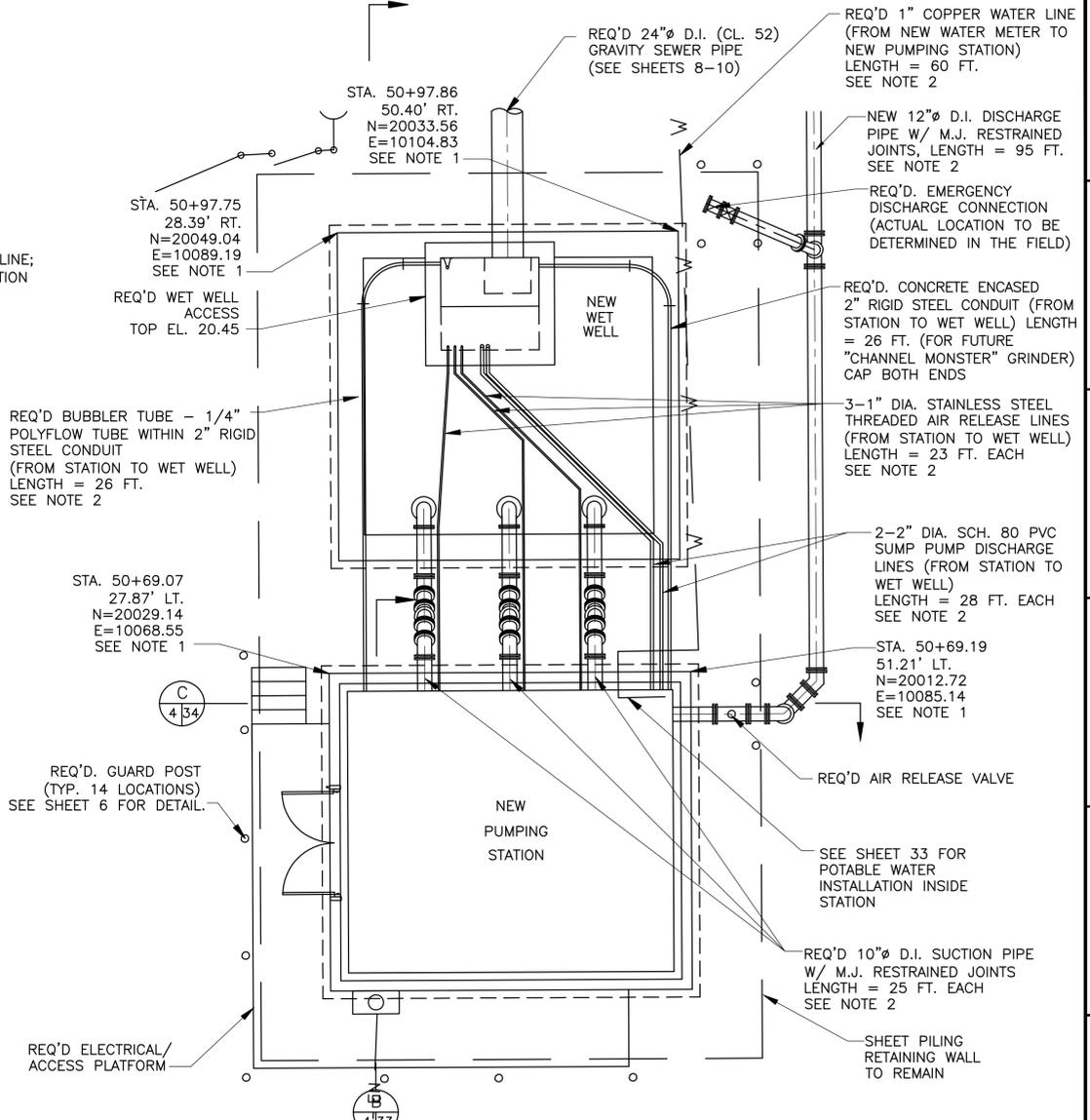
SCALE IN FEET
SCALE: 1" = 10'

CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
DEMOLITION PLAN			
DR. BD	GENERAL SUPERINTENDENT		
TRC. --			
CK. DS			
AP. JH			
SCALE: AS SHOWN	DWG. No. 12029-W-63		
DATE: SEPTEMBER 2011	SET NO.	SHEET NO. 3A	

DESIGN ENGINEERING INC.
 3310 Metairie Ave. S.
 Suite 200
 Metairie, LA 70002
 (504) 836-2155



REQUIRED SITE PLAN
SCALE: 1" = 10'



DETAIL PLAN
SCALE: 1" = 5'



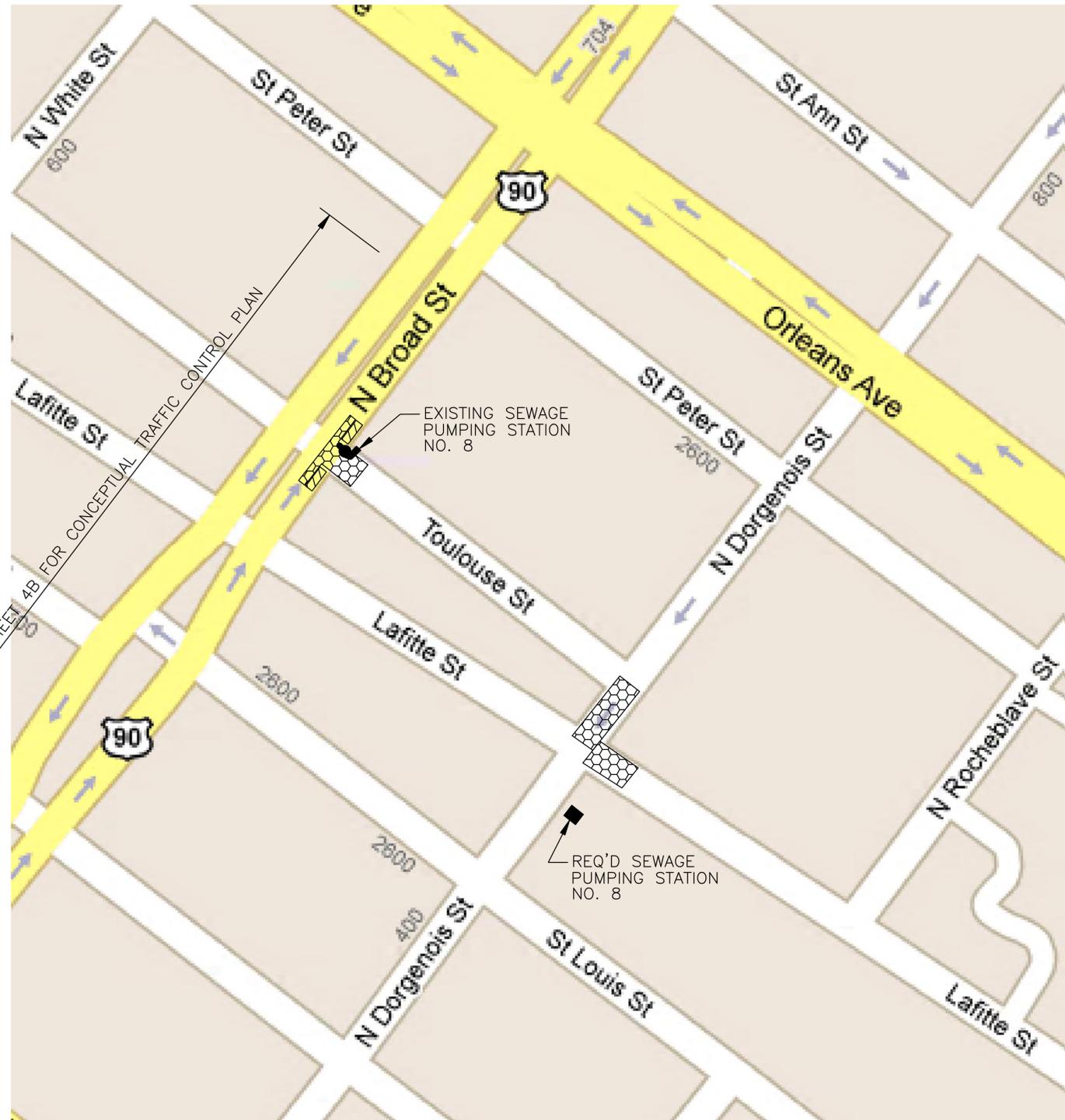
LEGEND

- ☼ Light Pole
- ⚡ Power Pole
- ⚓ Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Station Tower
- ⚓ Survey Baseline Point
- ⚓ Sign
- ⊙ Water Meter
- ⊙ Fire Hydrant
- Bollard
- + 25.00 Elevation Shot
- ⊙ 36" Grate (Elect.)
- X — Existing Fence
- SS — Sanitary Sewer Line
- UGE — Underground Electric
- D — Storm Drain Line
- W — REQ'D WOOD FENCE
- W — REQ'D WATER LINE
- ▨ REQ'D PAVEMENT (REPLACE IN-KIND)
- ▨ REQ'D CONCRETE SIDEWALK, DRIVEWAY

- NOTES:**
- STATIONING AND COORDINATES GIVEN TO EXTERIOR CORNERS OF CONCRETE WALL. SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF STATIONING AND COORDINATES.
 - PIPE LENGTH ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, DEPTH AND SIZE OF EXISTING DISCHARGE PIPING IN ORDER TO DETERMINE THE REQUIRED TIE-IN CONFIGURATION FOR THE REQUIRED DISCHARGE PIPING AND SHALL REPORT TO THE ENGINEER ANY INCONSISTENCIES FROM WHAT IS SHOWN.
 - SEE SHEET 3 FOR T.B.M. DESCRIPTION.

CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
SITE PLAN-REQUIRED STATION AND PIPING			
DR. TH/BD	GENERAL SUPERINTENDENT		
TRC. ---			
CK. DS/CW			
AP. JH	DWG. No. 12029-W-63		
SCALE: AS SHOWN	DATE: SEPTEMBER 2011	SHEET NO.	4





TRAFFIC CONTROL NOTES:

1. PARKING SHALL BE RESTRICTED AS INDICATED ON THIS SHEET AND AS FOLLOWS:
 - ALONG NORTH BROAD STREET: DURING DEMOLITION OF EXISTING STATION, TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER AND STREET PAVEMENT OPERATIONS, 50 FT WEST AND 50 FT EAST OF CENTERLINE OF TOULOUSE STREET.
2. STREET CLOSURES WILL BE PERMITTED AS INDICATED ON THIS SHEET AND AS FOLLOWS:
 - TWO (2) EASTERN MOST LANES OF NORTH BROAD STREET NORTHBOUND: DURING DEMOLITION OF EXISTING STATION, TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER LINE AT WEST END OF TOULOUSE STREET, AND STREET PAVEMENT OPERATIONS. NOTE: DURING CLOSURE OF THESE LANES, THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY DETOUR ROADWAY BY SHIFTING THE TRAVEL LANES INTO THE EXISTING MEDIAN TO MAINTAIN TWO (2) TRAVEL LANES OPEN AT ALL TIMES. SEE SHEET 4B.
 - TOULOUSE STREET AT NORTH BROAD STREET: DURING DEMOLITION OF EXISTING STATION AND TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER LINE AT WEST END OF TOULOUSE STREET.
 - NORTH DORGENOIS STREET: DURING TRENCHLESS INSTALLATION OF NEW GRAVITY SEWER LINE.
 - LAFITTE STREET: DURING OPEN-CUT INSTALLATION OF NEW GRAVITY SEWER LINE.
3. DURING STREET CLOSURES, THE CONTRACTOR SHALL PROVIDE SIGNAGE AND FLAGMEN IN ACCORDANCE WITH THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS (CNO-DPW) STANDARD DRAWINGS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. ALL WORK SHALL BE SCHEDULED TO MINIMIZE THE CLOSURE OF STREETS. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR REVIEW AND APPROVAL BY THE OWNER AND CNO-DPW. THE SCHEDULE SHALL INCLUDE THE ANTICIPATED IMPACT ON STREETS IN THE VICINITY OF THE PROPOSED CONSTRUCTION.
5. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL BY THE OWNER AND CNO-DPW A TRAFFIC CONTROL AND SIGNING PLAN INDICATING THE PROPOSED TRAVEL ROUTE FOR LARGE DELIVERY VEHICLES. TEMPORARY STREET CLOSURES WILL BE PERMITTED ON A LIMITED BASIS AS REQUIRED FOR DELIVERY BY LARGE VEHICLES. THE PLAN SHALL INDICATE THE ANTICIPATED EFFECT OF THE DELIVERIES TO PARKING ALONG THE LOCAL STREETS OF THE DELIVERY ROUTE. THE CONTRACTOR SHALL PROVIDE ADVANCE WARNING BY SIGNAGE AND FLAGMEN DURING SUCH TEMPORARY STREET CLOSURES IN ACCORDANCE WITH CNO-DPW STANDARD DRAWINGS AND MUTCD. THE PLAN SHALL ADDRESS WARNING METHODS THE CONTRACTOR PROPOSES TO EMPLOY.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CNO-DPW AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF ANY TEMPORARY STREET CLOSURES. CNO-DPW CONTACT: LOUIS HAYWOOD, 504-658-8040
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ALL PROPERTY OWNERS ALONG THE LOCAL STREETS OF THE DELIVERY ROUTE OF POSSIBLE STREET CLOSURES AND PARKING RESTRICTIONS.
4. SHOULD ADDITIONAL AREAS OF RESTRICTED PARKING BE REQUIRED, THE CONTRACTOR SHALL PROVIDE THE OWNER AND CNO-DPW WITH A PLAN FOR REVIEW AND APPROVAL INDICATING THE ADDITIONAL AREAS THAT WILL BE AFFECTED. THE CONTRACTOR SHALL FURNISH THE REQUIRED PLAN AT LEAST FOUR (4) WEEKS IN ADVANCE.

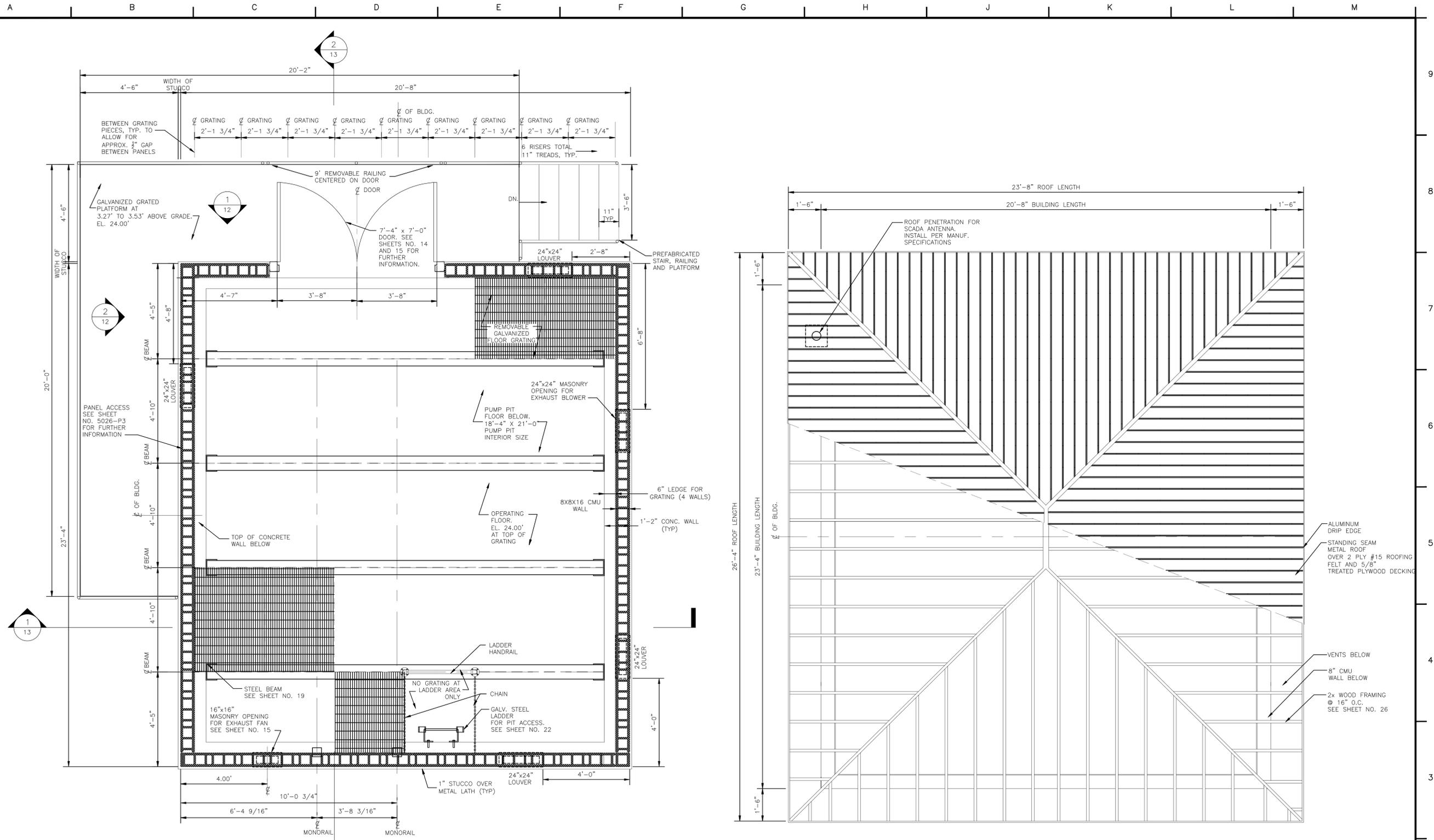
LEGEND:

- CNO-DPW DEPARTMENT OF PUBLIC WORKS OF NEW ORLEANS
- MUTCD MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
-  PERMITTED TEMPORARY RESTRICTED PARKING
-  PERMITTED TEMPORARY STREET CLOSURE

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE LIFT STATION NO. 8			
TRAFFIC CONTROL			
DR. TH/BD	GENERAL SUPERINTENDENT		
TRC. --	GENERAL SUPERINTENDENT		
CK. DS/CW	GENERAL SUPERINTENDENT		
AP. JH	DWG. No. 12026-W-63		
SCALE: NONE	SHEET NO. 4A		
DATE: SEPTEMBER 2011	SET NO.	SHEET NO. 4A	

DESIGN ENGINEERING INC.
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 (504) 836-2150

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1 OPERATING FLOOR / ARCHITECTURAL FRAMING PLAN
1/2" = 1'-0"

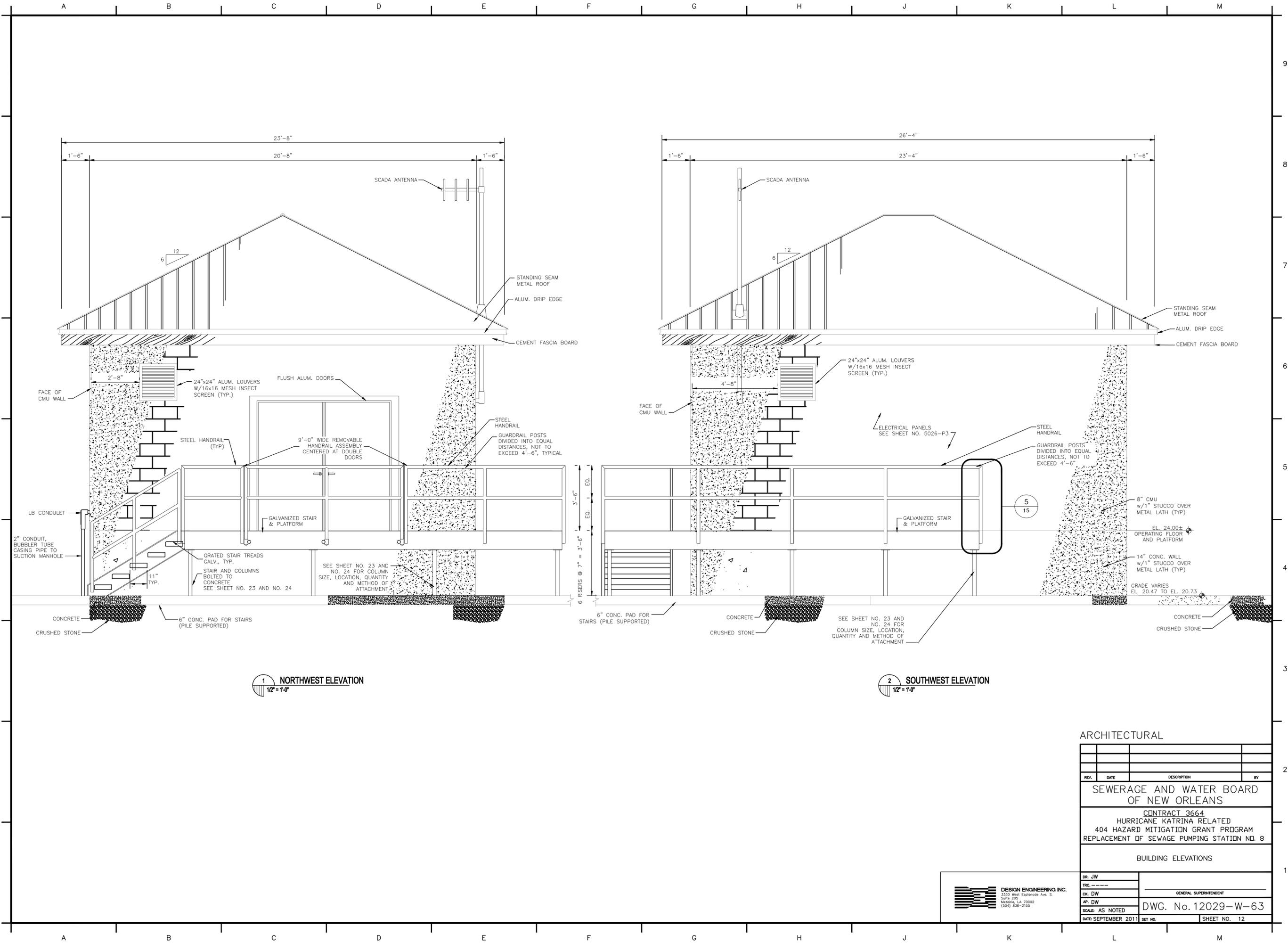
2 COMBINED ROOF AND FRAMING PLAN
1/2" = 1'-0"

NOTE: REMOVABLE FLOOR GRATING TO BE INSTALLED OVER ENTIRE OPERATING FLOOR EXCEPT AT LADDER ACCESS. TYPICAL GRATING PANELS SIZE VARIES AT THIS PUMP STATION

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664			
HURRICANE KATRINA RELATED			
404 HAZARD MITIGATION GRANT PROGRAM			
REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
FLOOR FRAMING AND ROOF PLANS			
DR. JW			
TRC. ---			
CK. DW			
AP. DW			
SCALE: AS NOTED		DWG. No. 12029-W-63	
DATE: SEPTEMBER 2011	SET NO.		SHEET NO. 11

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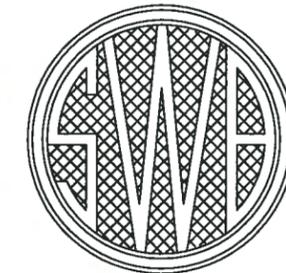
1 NORTHWEST ELEVATION
1/2" = 1'-0"

2 SOUTHWEST ELEVATION
1/2" = 1'-0"

ARCHITECTURAL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3664			
HURRICANE KATRINA RELATED			
404 HAZARD MITIGATION GRANT PROGRAM			
REPLACEMENT OF SEWAGE PUMPING STATION NO. 8			
BUILDING ELEVATIONS			
DR. JW	GENERAL SUPERINTENDENT		
TRC. ---			
CK. DW			
AP. DW	DWG. No. 12029-W-63		
SCALE: AS NOTED	DATE: SEPTEMBER 2011	SET NO.	SHEET NO. 12

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Metairie, LA 70002
(504) 836-2155

SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3663 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF BULLARD SEWAGE PUMPING STATION

DRAWING INDEX

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2	12028-W-63	GENERAL	LOCATION MAP/GENERAL NOTES	28	12028-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND MISCELLANEOUS DETAILS
3	12028-W-63	CIVIL	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION	29	12028-W-63	MECHANICAL	REHABILITATION AND DETAILS FOR WET WELL
4	12028-W-63	CIVIL	SITE PLAN - REQUIRED STATION & PIPING	30	12028-W-63	---	REFERENCE DRAWING
5	12028-W-63	CIVIL	SITE PAVING AND FENCING PLAN	31	12028-W-63	---	REFERENCE DRAWING
5A	12028-W-63	CIVIL	FENCING DETAILS	32	12028-W-63	---	REFERENCE DRAWING
6	12028-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	33	12028-W-63	---	REFERENCE DRAWING
7	12028-W-63	CIVIL	SEWER NOTES	34	5025-P1	ELECTRICAL	ELECTRICAL - REQUIRED SITE PLAN
8	12028-W-63	ARCHITECTURAL	FLOOR FRAMING AND ROOF PLANS	35	5025-P2	ELECTRICAL	ELEMENTARY, PNEUMATIC, CONTROL AND ONE LINE DIAGRAMS
9	12028-W-63	ARCHITECTURAL	BUILDING ELEVATIONS	36	5025-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
10	12028-W-63	ARCHITECTURAL	BUILDING SECTIONS	37	5025-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
11	12028-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	38	5025-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
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14	12028-W-63	STRUCTURAL	STRUCTURAL NOTES				
15	12028-W-63	STRUCTURAL	FOUNDATION PLAN AND DETAILS				
16	12028-W-63	STRUCTURAL	OPERATING FLOOR FRAMING AND GRATING PLAN				
17	12028-W-63	STRUCTURAL	CEILING LEVEL FRAMING AND ROOF PLAN				
18	12028-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1				
19	12028-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 2				
20	12028-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN				
21	12028-W-63	STRUCTURAL	STAIR DETAILS AND SECTIONS				
22	12028-W-63	STRUCTURAL	LADDER DETAILS				
23	12028-W-63	STRUCTURAL	ROOF SECTION AND DETAILS				
24	12028-W-63	STRUCTURAL	PPC PILE AND MISCELLANEOUS DETAILS				
25	12028-W-63	MECHANICAL	MECHANICAL EQUIPMENT LAYOUT PLAN				
26	12028-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND WET WELL				



VICINITY MAP
AREA MAP NO SCALE

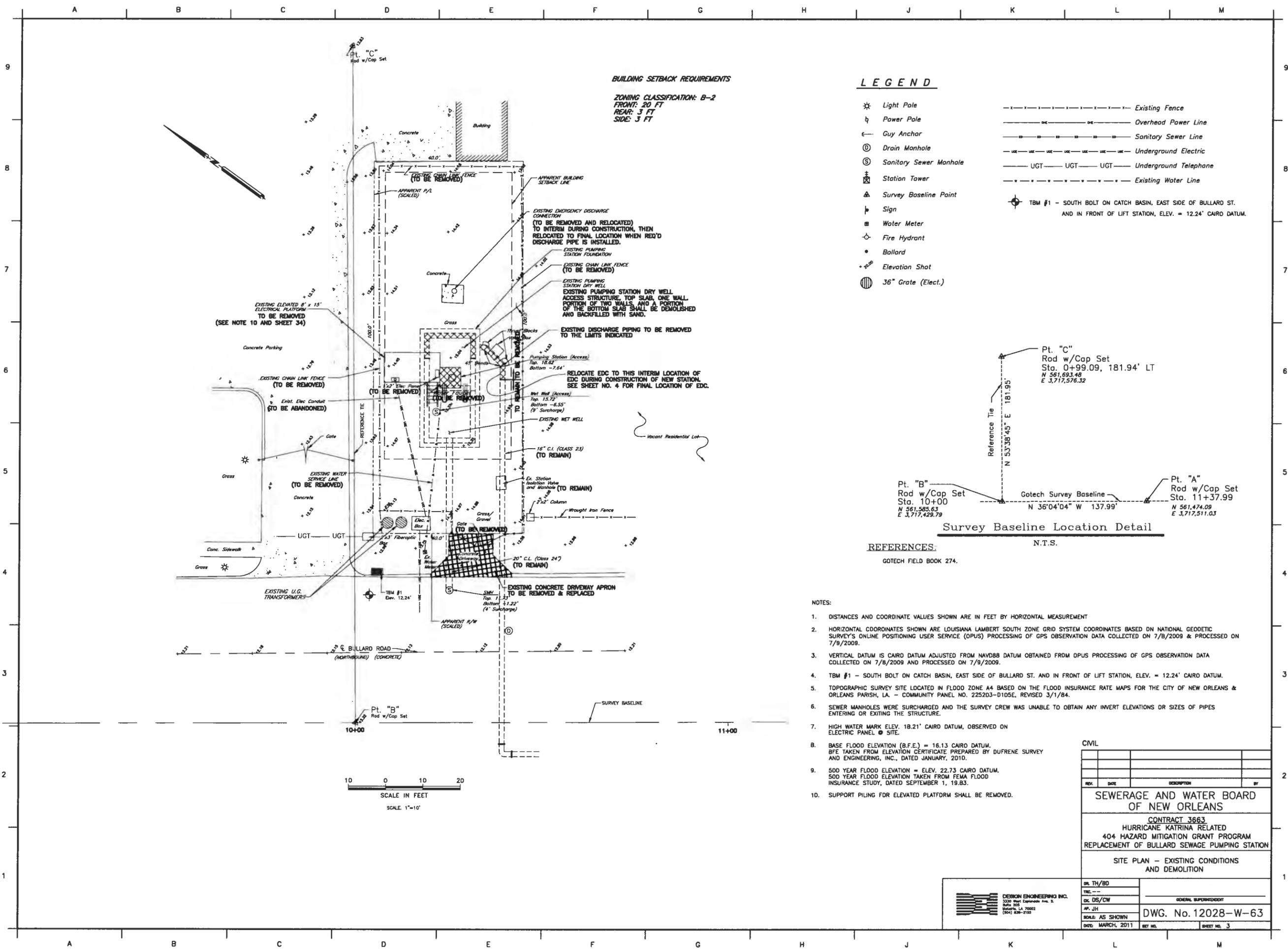
FINAL PLANS
THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.
John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
3-31-11

FINAL SUBMITTAL
MARCH 2011
NOT FOR CONSTRUCTION
 DESIGN ENGINEERING INC.
3330 West Esplanade Ave. E.
Suite 200
Metairie, LA 70002
(504) 835-2155

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3663 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF BULLARD SEWAGE PUMPING STATION			
TITLE SHEET			
DR. TH/BD			
TRC --			
CL. DS/CW			
AP. JH			
SCALE AS SHOWN		DWG. No. 12028-W-63	
DATE: MARCH, 2011	REV. NO.		SHEET NO. 1

DESIGN ENGINEERING INC.
3330 West Esplanade Ave. E.
Suite 200
Metairie, LA 70002
(504) 835-2155

PRINTED Mar 30, 2011 - 11:14am FILENAME - J:\6005.1-FINAL\Contract 3663 - Bullard SPS\SH1_3_BUL_EXSITE.dwg



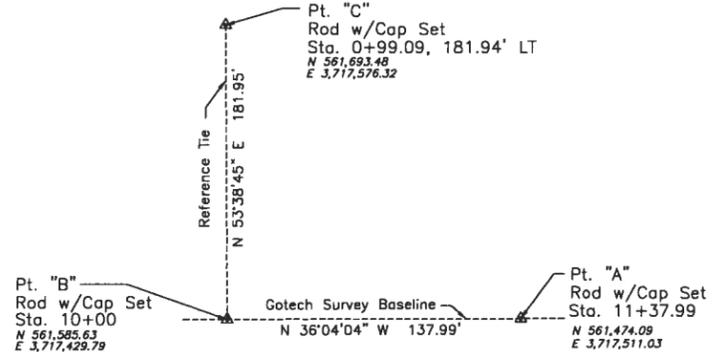
BUILDING SETBACK REQUIREMENTS

ZONING CLASSIFICATION: B-2
 FRONT: 20 FT
 REAR: 3 FT
 SIDE: 3 FT

LEGEND

- ⊛ Light Pole
- ⊚ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Station Tower
- ⊙ Survey Baseline Point
- ⊙ Sign
- ⊙ Water Meter
- ⊙ Fire Hydrant
- ⊙ Ballard
- ⊙ Elevation Shot
- ⊙ 36" Grate (Elect.)
- Existing Fence
- Overhead Power Line
- Sanitary Sewer Line
- Underground Electric
- UGT UGT UGT Underground Telephone
- Existing Water Line

TBM #1 - SOUTH BOLT ON CATCH BASIN, EAST SIDE OF BULLARD ST. AND IN FRONT OF LIFT STATION, ELEV. = 12.24' CAIRO DATUM.



Survey Baseline Location Detail

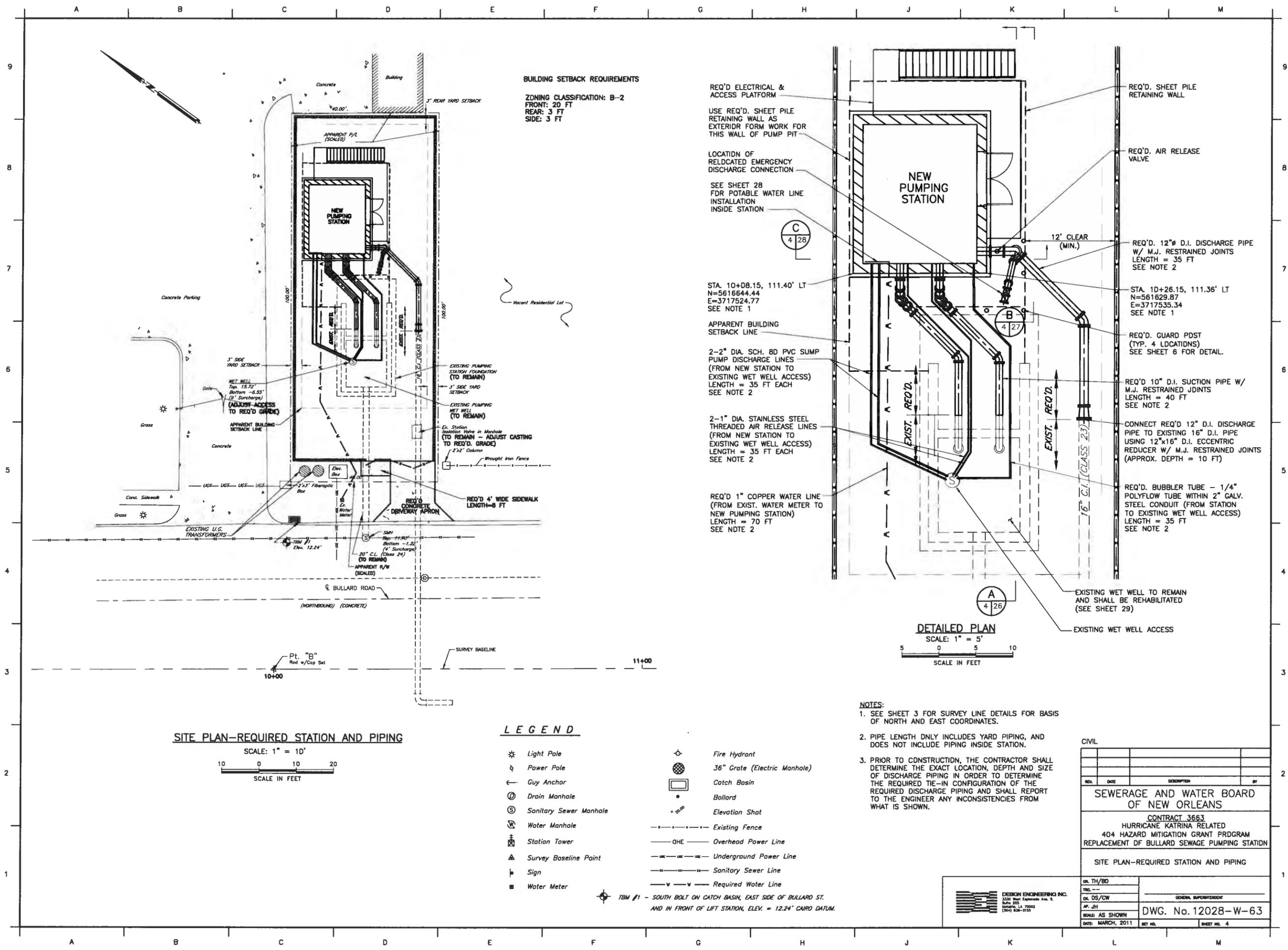
REFERENCES:
 GOTECH FIELD BOOK 274.

- NOTES:
- DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT
 - HORIZONTAL COORDINATES SHOWN ARE LOUISIANA LAMBERT SOUTH ZONE GRID SYSTEM COORDINATES BASED ON NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS) PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 & PROCESSED ON 7/9/2009.
 - VERTICAL DATUM IS CAIRO DATUM ADJUSTED FROM NAVD88 DATUM OBTAINED FROM OPUS PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 AND PROCESSED ON 7/9/2009.
 - TBM #1 - SOUTH BOLT ON CATCH BASIN, EAST SIDE OF BULLARD ST. AND IN FRONT OF LIFT STATION, ELEV. = 12.24' CAIRO DATUM.
 - TOPOGRAPHIC SURVEY SITE LOCATED IN FLOOD ZONE A4 BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 2252D3-D105E, REVISED 3/1/84.
 - SEWER MANHOLES WERE SURCHARGED AND THE SURVEY CREW WAS UNABLE TO OBTAIN ANY INVERT ELEVATIONS OR SIZES OF PIPES ENTERING OR EXITING THE STRUCTURE.
 - HIGH WATER MARK ELEV. 18.21' CAIRO DATUM, OBSERVED ON ELECTRIC PANEL @ SITE.
 - BASE FLOOD ELEVATION (B.F.E.) = 18.13 CAIRO DATUM. BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DUFRENE SURVEY AND ENGINEERING, INC., DATED JANUARY, 2010.
 - 500 YEAR FLOOD ELEVATION = ELEV. 22.73 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
 - SUPPORT PILING FOR ELEVATED PLATFORM SHALL BE REMOVED.

SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3663 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF BULLARD SEWAGE PUMPING STATION			
SITE PLAN - EXISTING CONDITIONS AND DEMOLITION			
DR. TH/BD	DATE	DESCRIPTION	BY
GENERAL SUPERVISOR			
DWG. No. 12028-W-63			
DATE: MARCH, 2011	REV. NO.	SHEET NO. 3	

DESIGN ENGINEERING INC.
 3330 West Lakeshore Ave. E.
 Suite 201
 Metairie, LA 70002
 (504) 836-2182

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BUILDING SETBACK REQUIREMENTS
 ZONING CLASSIFICATION: B-2
 FRONT: 20 FT
 REAR: 3 FT
 SIDE: 3 FT

REQ'D ELECTRICAL & ACCESS PLATFORM
 USE REQ'D. SHEET PILE RETAINING WALL AS EXTERIOR FORM WORK FOR THIS WALL OF PUMP PIT
 LOCATION OF RELOCATED EMERGENCY DISCHARGE CONNECTION
 SEE SHEET 28 FOR POTABLE WATER LINE INSTALLATION INSIDE STATION

STA. 10+08.15, 111.40' LT
 N=5616644.44
 E=3717524.77
 SEE NOTE 1

APPARENT BUILDING SETBACK LINE

2-2" DIA. SCH. 80 PVC SUMP PUMP DISCHARGE LINES (FROM NEW STATION TO EXISTING WET WELL ACCESS) LENGTH = 35 FT EACH SEE NOTE 2

2-1" DIA. STAINLESS STEEL THREADED AIR RELEASE LINES (FROM NEW STATION TO EXISTING WET WELL ACCESS) LENGTH = 35 FT EACH SEE NOTE 2

REQ'D 1" COPPER WATER LINE (FROM EXIST. WATER METER TO NEW PUMPING STATION) LENGTH = 70 FT SEE NOTE 2

REQ'D. SHEET PILE RETAINING WALL
 REQ'D. AIR RELEASE VALVE
 REQ'D. 12" D.I. DISCHARGE PIPE W/ M.J. RESTRAINED JOINTS LENGTH = 35 FT SEE NOTE 2

STA. 10+26.15, 111.36' LT
 N=561629.87
 E=3717535.34
 SEE NOTE 1

REQ'D. GUARD PDST (TYP. 4 LOCATIONS) SEE SHEET 6 FOR DETAIL.

REQ'D 10" D.I. SUCTION PIPE W/ M.J. RESTRAINED JOINTS LENGTH = 40 FT SEE NOTE 2

CONNECT REQ'D 12" D.I. DISCHARGE PIPE TO EXISTING 16" D.I. PIPE USING 12"x16" D.I. ECCENTRIC REDUCER W/ M.J. RESTRAINED JOINTS (APPROX. DEPTH = 10 FT)

REQ'D. BUBBLER TUBE - 1/4" POLYFLOW TUBE WITHIN 2" GALV. STEEL CONDUIT (FROM STATION TO EXISTING WET WELL ACCESS) LENGTH = 35 FT SEE NOTE 2

DETAILED PLAN

SCALE: 1" = 5'



SITE PLAN-REQUIRED STATION AND PIPING

SCALE: 1" = 10'



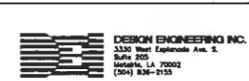
LEGEND

- * Light Pole
- ⚡ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Water Manhole
- ⊙ Station Tower
- △ Survey Baseline Point
- ⊥ Sign
- Water Meter
- ⊙ Fire Hydrant
- ⊙ 36" Grate (Electric Manhole)
- ⊙ Catch Basin
- Bollard
- +0.00 Elevation Shot
- - - Existing Fence
- OHE — Overhead Power Line
- - - - - Underground Power Line
- - - - - Sanitary Sewer Line
- - - - - Required Water Line

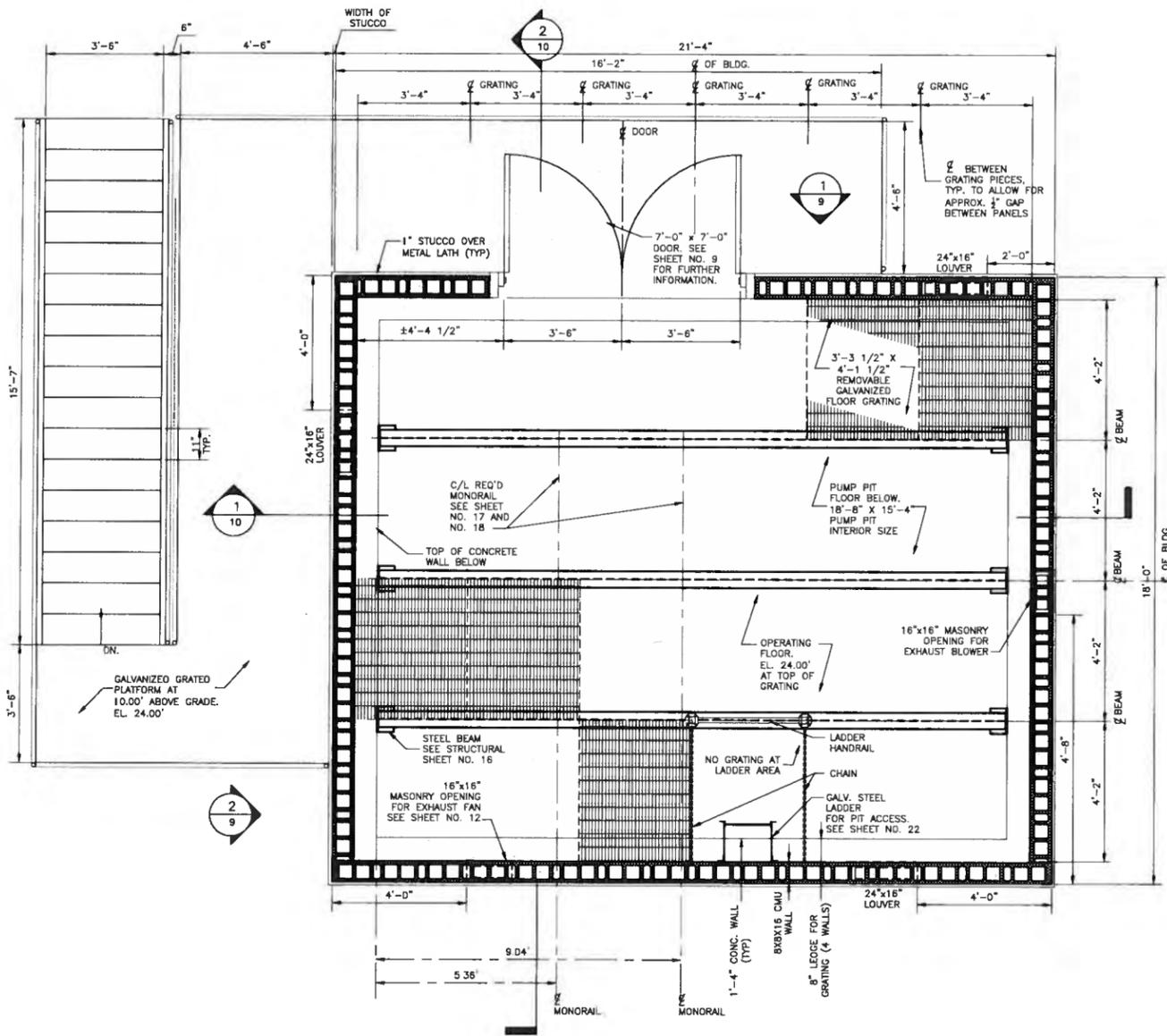
TBM #1 - SOUTH BOLT ON CATCH BASIN, EAST SIDE OF BULLARD ST. AND IN FRONT OF LIFT STATION, ELEV. = 12.24' CIPRO DATUM.

- NOTES:**
- SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF NORTH AND EAST COORDINATES.
 - PIPE LENGTH ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, DEPTH AND SIZE OF DISCHARGE PIPING IN ORDER TO DETERMINE THE REQUIRED TIE-IN CONFIGURATION OF THE REQUIRED DISCHARGE PIPING AND SHALL REPORT TO THE ENGINEER ANY INCONSISTENCIES FROM WHAT IS SHOWN.

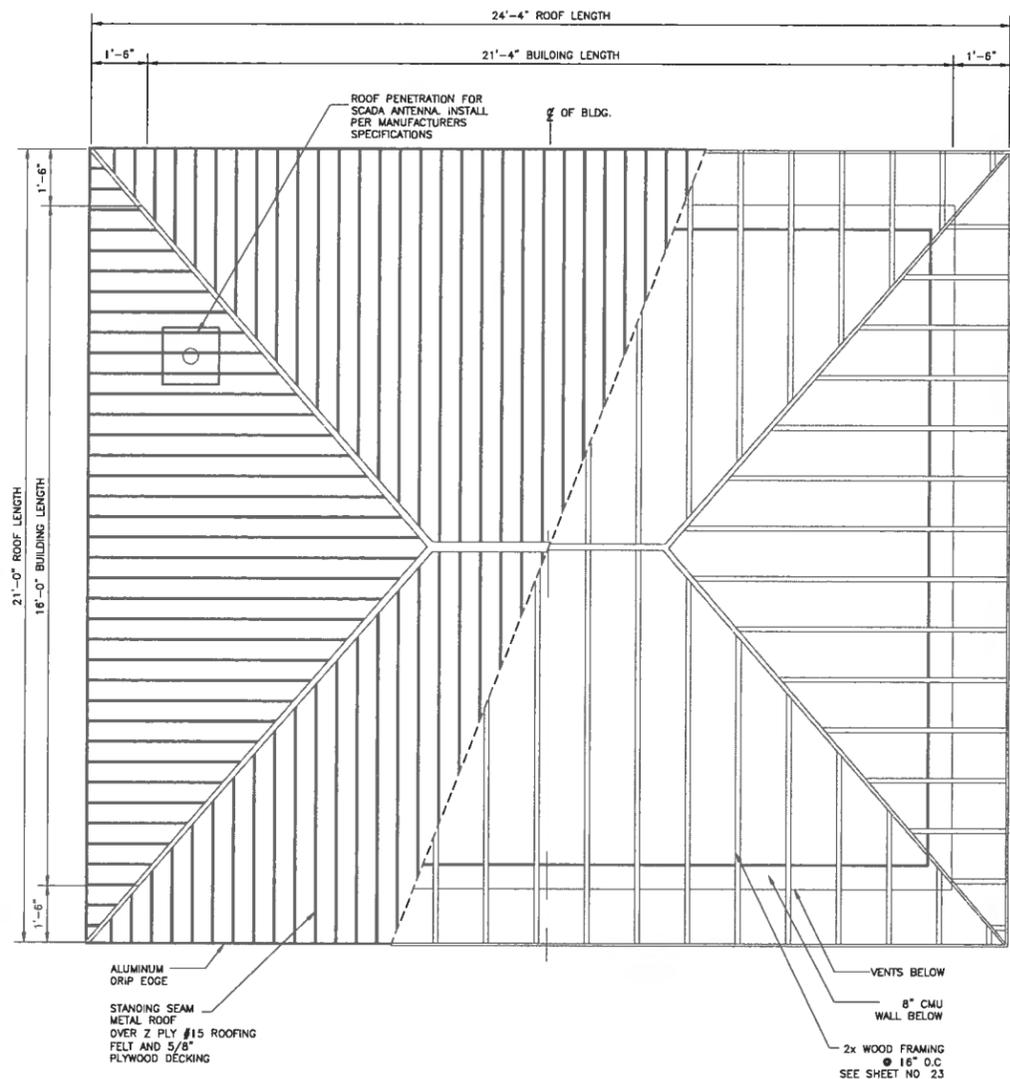
CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3663 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF BULLARD SEWAGE PUMPING STATION			
SITE PLAN-REQUIRED STATION AND PIPING			
DR. TH/BD			
TRC			
CL DS/CW			GENERAL SUPERVISOR
AP: JH			
BOARD AS SHOWN		DWG. No. 12028-W-63	
DATE: MARCH, 2011	SET NO.		SHEET NO. 4



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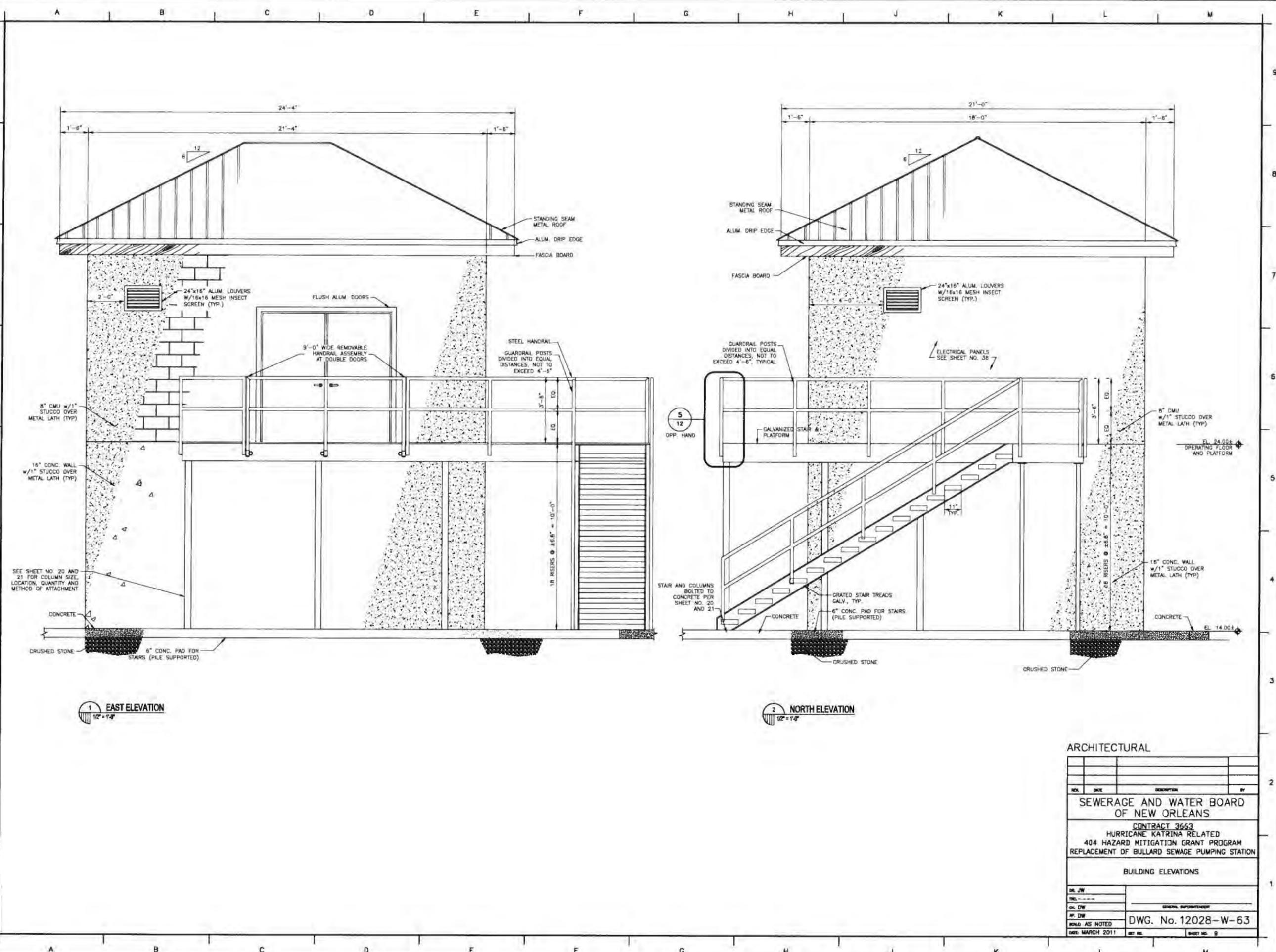
1 OPERATING FLOOR / ARCHITECTURAL FRAMING PLAN
1/2" = 1'-0"



2 COMBINED ROOF AND FRAMING PLAN
1/2" = 1'-0"

ARCHITECTURAL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3663 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF BULLARD SEWAGE PUMPING STATION			
FLOOR FRAMING AND ROOF PLANS			
DR. JW			
CHK. DW			
SCALE: AS NOTED		DWG. No. 12028-W-63	
DWG. DATE: MARCH 2011	REV. NO.		SHEET NO. 8

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1 EAST ELEVATION
1/2" = 1'-0"

2 NORTH ELEVATION
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY

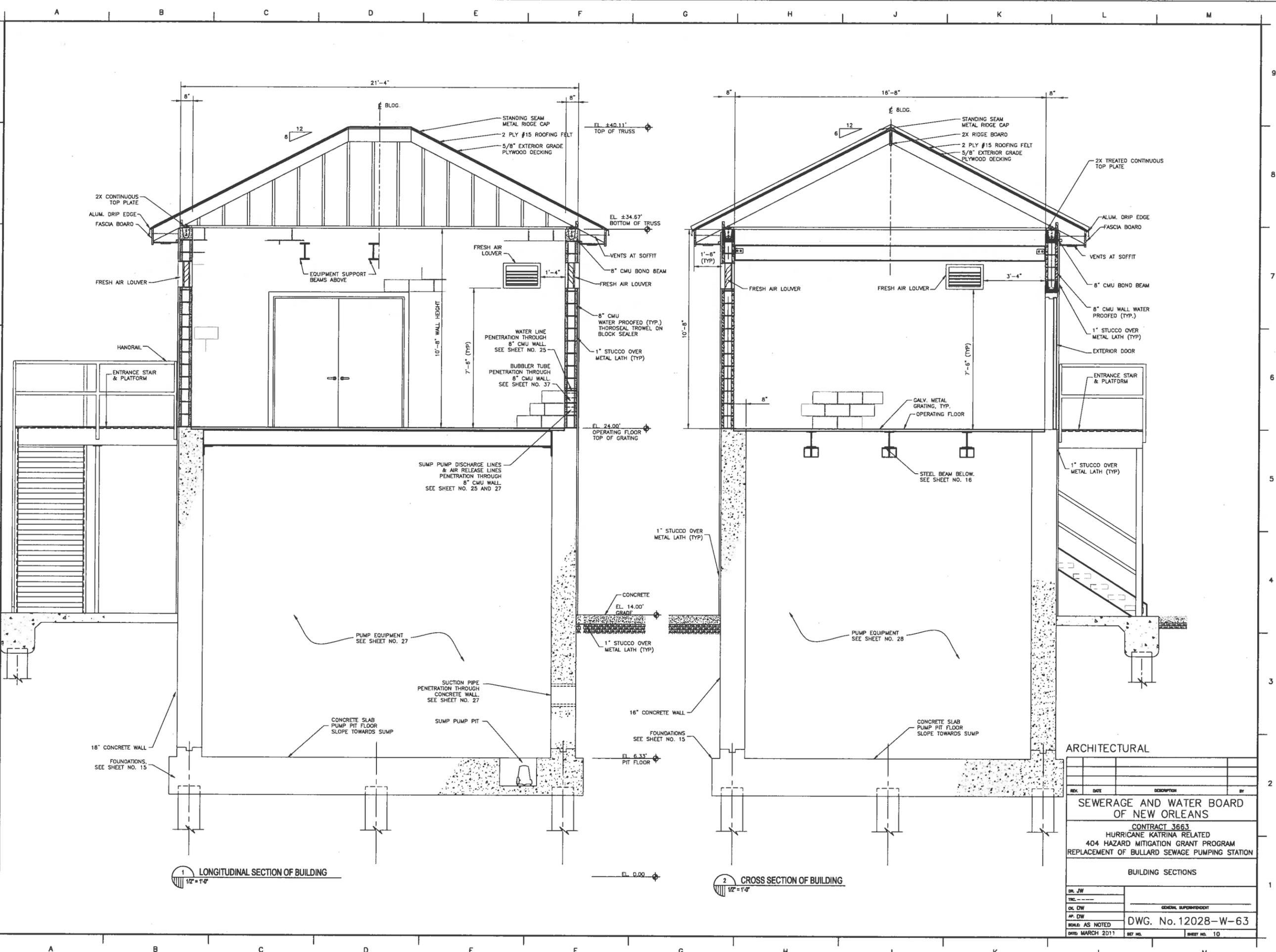
SEWERAGE AND WATER BOARD
OF NEW ORLEANS

CONTRACT 3663
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF BULLARD SEWAGE PUMPING STATION

BUILDING ELEVATIONS

DR. JW	
INC.	
CHK. DW	
APP. DW	
SCALE: AS NOTED	DWG. No. 12028-W-63
DATE: MARCH 2011	REV. NO. SHEET NO. 9

PRINTED Mar 29, 2011 2:34pm FILENAME - J:\6005.1-FINAL\Contract 3663 - Bullard SPS_ARCHITECTURAL\SH10_BUL_BLOG_SEC.dwg



1 LONGITUDINAL SECTION OF BUILDING
1/2" = 1'-0"

2 CROSS SECTION OF BUILDING
1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY

ARCHITECTURAL

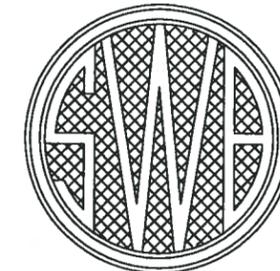
**SEWERAGE AND WATER BOARD
OF NEW ORLEANS**

CONTRACT 3663
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF BULLARD SEWAGE PUMPING STATION

BUILDING SECTIONS

DR. JW	
CHK. DW	
AP. DW	
SCALE: AS NOTED	DWG. No. 12028-W-63
DATE: MARCH 2011	SHEET NO. 10

SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3665

HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF DODT STREET SEWAGE PUMPING STATION

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2	12030-W-63	GENERAL	LOCATION MAP/GENERAL NOTES	28	12030-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND MISCELLANEOUS DETAILS
3	12030-W-63	CIVIL	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION	29	12030-W-63	MECHANICAL	REHABILITATION AND DETAILS FOR WET WELL
4	12030-W-63	CIVIL	SITE PLAN - REQUIRED STATION & PIPING	30	12030-W-63	--	REFERENCE DRAWING
5	12030-W-63	CIVIL	FENCING AND SITE PAVING PLAN	31	12030-W-63	--	REFERENCE DRAWING
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6	12030-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	33	5027-P2	ELECTRICAL	ELEMENTARY, PNEUMATIC, CONTROL AND ONE LINE DIAGRAMS
7	12030-W-63	CIVIL	SEWER NOTES	34	5027-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
8	12030-W-63	ARCHITECTURAL	FLOOR FRAMING AND ROOF PLANS	35	5027-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
9	12030-W-63	ARCHITECTURAL	BUILDING ELEVATIONS	36	5027-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
10	12030-W-63	ARCHITECTURAL	BUILDING SECTIONS	37	5027-P6	ELECTRICAL	SCADA PANEL RISER DIAGRAM AND DETAILS
11	12030-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS				
12	12030-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS				
13	12030-W-63	STRUCTURAL	BORING LOGS				
14	12030-W-63	STRUCTURAL	STRUCTURAL NOTES				
15	12030-W-63	STRUCTURAL	FOUNDATION PLAN AND DETAILS				
16	12030-W-63	STRUCTURAL	OPERATING FLOOR FRAMING AND GRATING PLAN				
17	12030-W-63	STRUCTURAL	CEILING LEVEL FRAMING AND ROOFING PLAN				
18	12030-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1				
19	12030-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 2				
20	12030-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN				
21	12030-W-63	STRUCTURAL	STAIR SECTION AND DETAILS				
22	12030-W-63	STRUCTURAL	LADDER DETAILS				
23	12030-W-63	STRUCTURAL	ROOF SECTION AND DETAILS				
24	12030-W-63	STRUCTURAL	PPC PILE AND MISCELLANEOUS DETAILS				
25	12030-W-63	MECHANICAL	MECHANICAL EQUIPMENT LAYOUT PLAN				
26	12030-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND WET WELL				



VICINITY MAP
AREA MAP NO SCALE

FINAL PLANS

THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
5-11-11

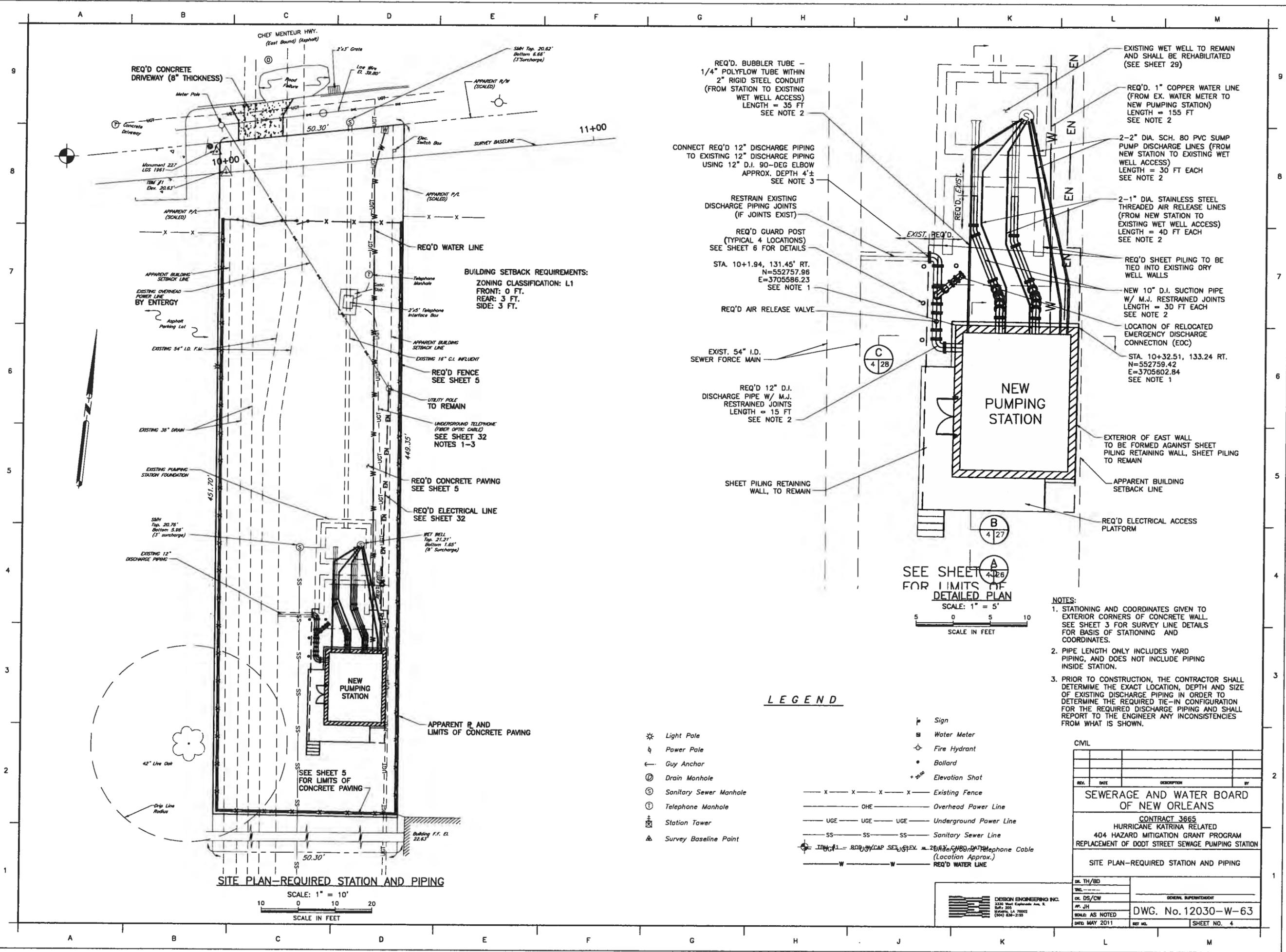
FINAL SUBMITTAL

MAY 2011
NOT FOR CONSTRUCTION



REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3665 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF DODT STREET SEWAGE PUMPING STATION			
TITLE SHEET			
DR. TH/BD			
TIC. --			
CK. DS/CW			
AP. JH			
SCALE AS SHOWN		DWG. No. 12030-W-63	
DATE: MAY 2011	REV. NO.		SHEET NO. 1

PRINTED May 17, 2011 - 11:11am FILENAME = U:\6005.1-FINAL\Contract 3665 - Dordt Street SPS\SHIT 4_DDOT_REQSITE.dwg



SITE PLAN-REQUIRED STATION AND PIPING

SCALE: 1" = 10'
SCALE IN FEET

REQ'D. BUBBLER TUBE - 1/4" POLYFLOW TUBE WITHIN 2" RIGID STEEL CONDUIT (FROM STATION TO EXISTING WET WELL ACCESS) LENGTH = 35 FT SEE NOTE 2

CONNECT REQ'D 12" DISCHARGE PIPING TO EXISTING 12" DISCHARGE PIPING USING 12" D.I. 90-DEG ELBOW APPROX. DEPTH 4"± SEE NOTE 3

RESTRAIN EXISTING DISCHARGE PIPING JOINTS (IF JOINTS EXIST)

REQ'D GUARD POST (TYPICAL 4 LOCATIONS) SEE SHEET 6 FOR DETAILS

STA. 10+1.94, 131.45' RT. N=552757.96 E=3705586.23 SEE NOTE 1

REQ'D AIR RELEASE VALVE

EXIST. 54" I.D. SEWER FORCE MAIN

REQ'D 12" D.I. DISCHARGE PIPE W/ M.J. RESTRAINED JOINTS LENGTH = 15 FT SEE NOTE 2

SHEET PILING RETAINING WALL, TO REMAIN

SEE SHEET 4-126 FOR LIMITS OF DETAILED PLAN

SCALE: 1" = 5'
SCALE IN FEET

LEGEND

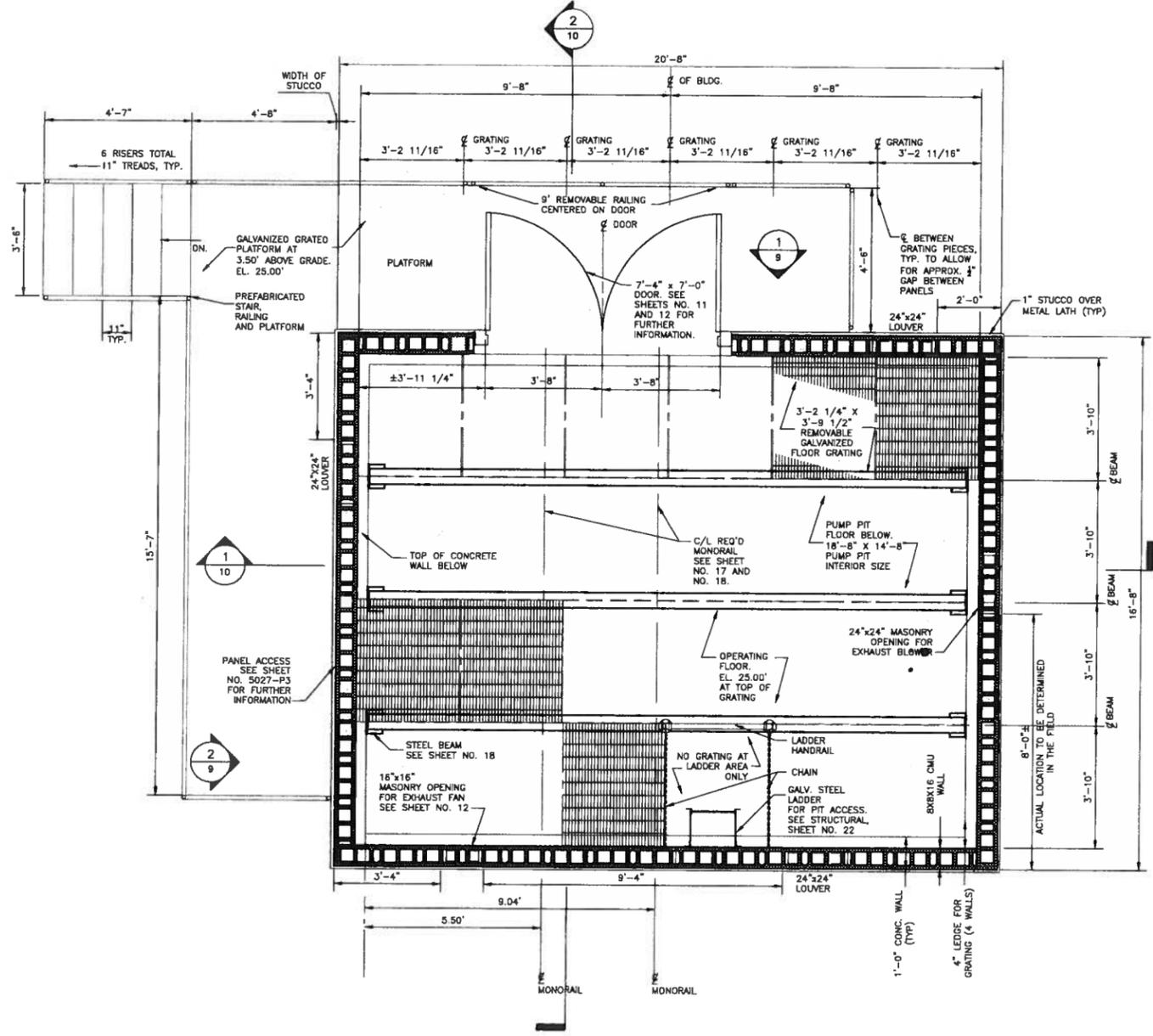
- ☼ Light Pole
- ⊕ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Telephone Manhole
- ⊕ Station Tower
- ⊕ Survey Baseline Point
- ⊕ Sign
- ⊕ Water Meter
- ⊕ Fire Hydrant
- ⊕ Bollard
- ⊕ Elevation Shot
- x --- Existing Fence
- OHE --- Overhead Power Line
- UGE --- Underground Power Line
- SS --- Sanitary Sewer Line
- TRW --- Telephone Cable (Location Approx.)
- W --- REQ'D WATER LINE

- NOTES:
- STATIONING AND COORDINATES GIVEN TO EXTERIOR CORNERS OF CONCRETE WALL. SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF STATIONING AND COORDINATES.
 - PIPE LENGTH ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, DEPTH AND SIZE OF EXISTING DISCHARGE PIPING IN ORDER TO DETERMINE THE REQUIRED TIE-IN CONFIGURATION FOR THE REQUIRED DISCHARGE PIPING AND SHALL REPORT TO THE ENGINEER ANY INCONSISTENCIES FROM WHAT IS SHOWN.

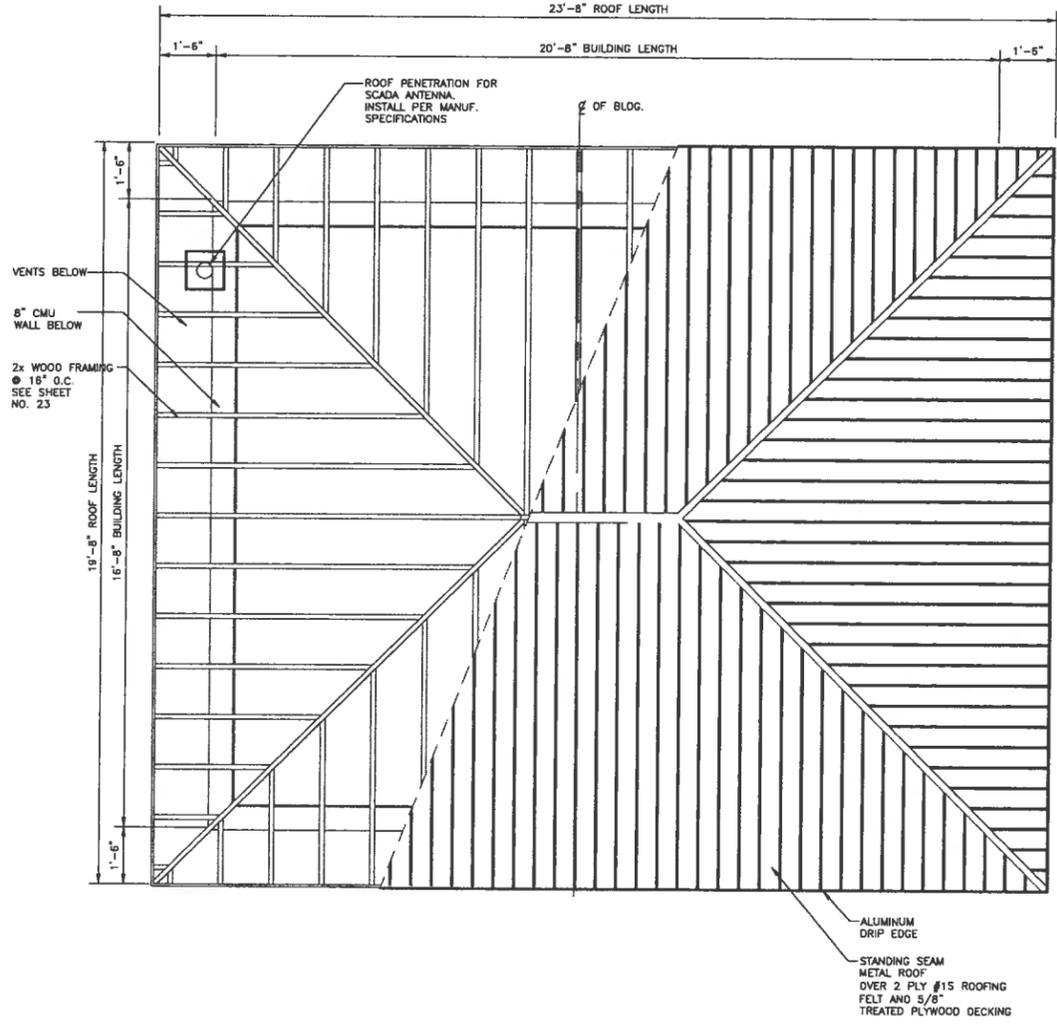
CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3665 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF DORDT STREET SEWAGE PUMPING STATION			
SITE PLAN-REQUIRED STATION AND PIPING			
DR. TH/BD			
DR. DS/CW			
DR. JH			
SCALE AS NOTED		DWG. No. 12030-W-63	
DATE: MAY 2011	REV. NO.		SHEET NO. 4



PRINTED May 18, 2011 - 2:49pm FILENAME - J:\8005.1-FINAL\Contract 3665 - Dodt Street SPS\ARCHITECTURAL\SH18_DDOT_ARCH_FRAME.dwg



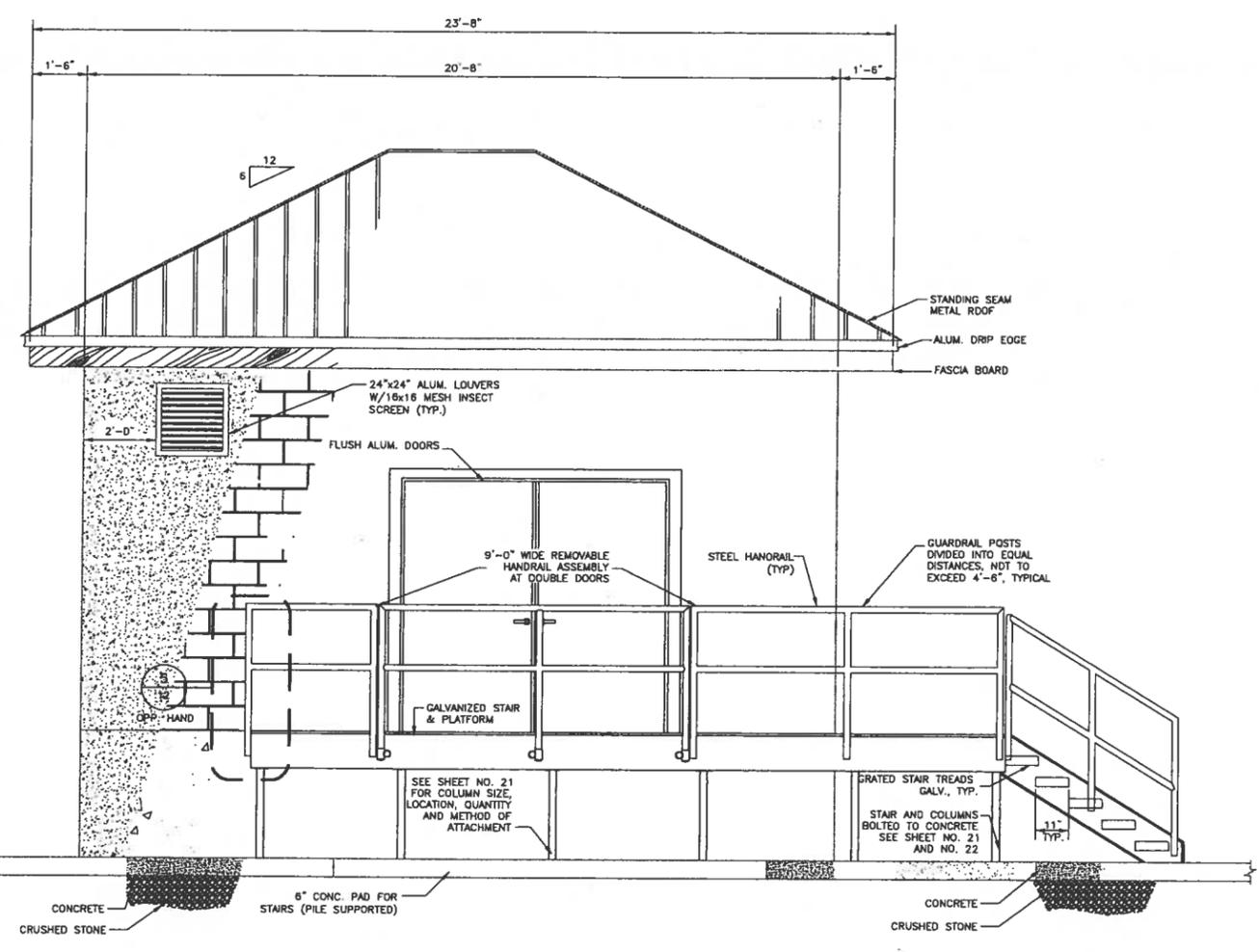
1 OPERATING FLOOR / ARCHITECTURAL FRAMING PLAN
1/2" = 1'-0"



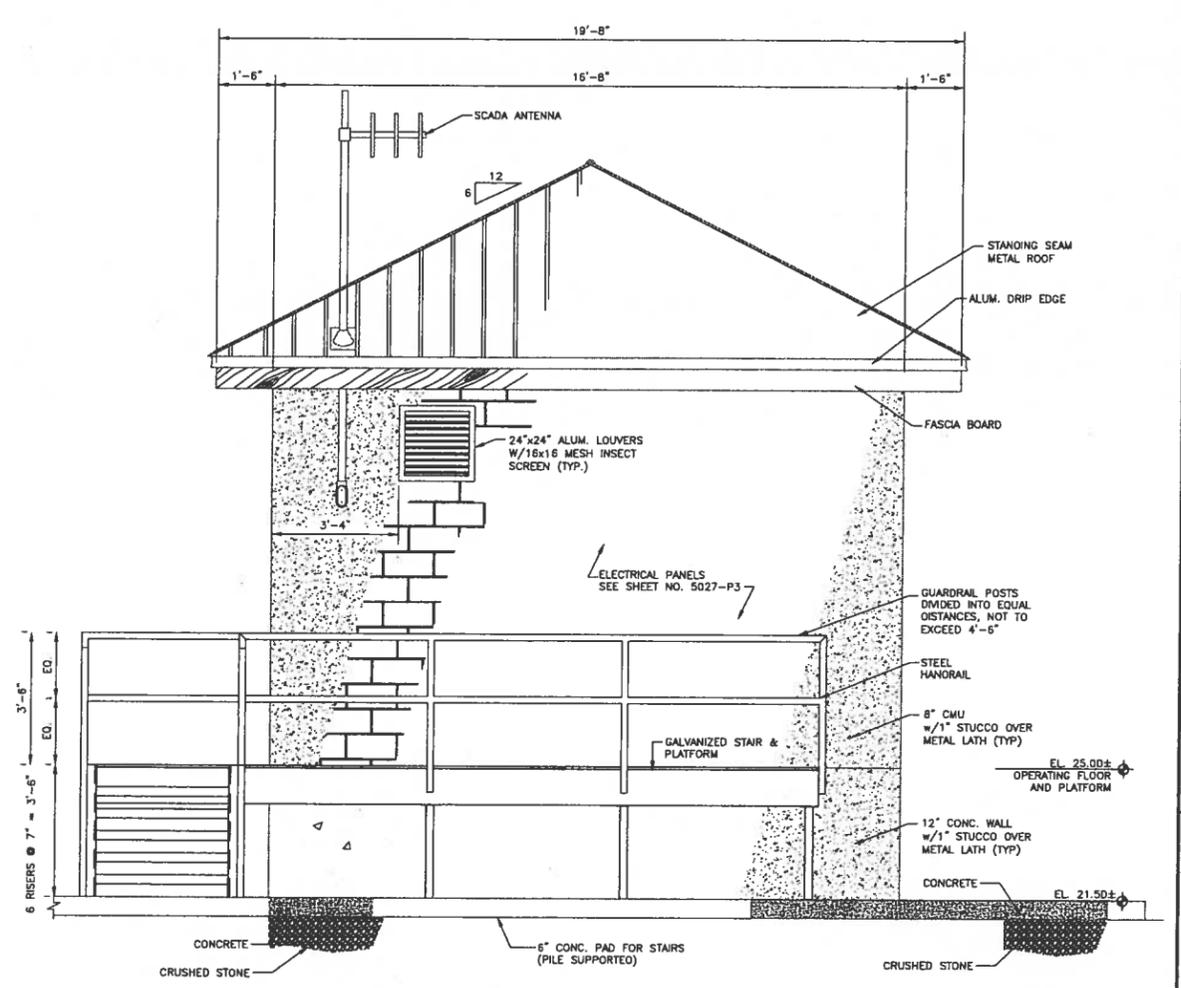
2 COMBINED ROOF AND FRAMING PLAN
1/2" = 1'-0"

ARCHITECTURAL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3665 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF DODT STREET SEWAGE PUMPING STATION			
FLDOR FRAMING AND ROOF PLANS			
DR. JW			
DC. DW			
AP. DW			
SCALE AS NOTED		DWG. No. 12028-W-63	
DATE: MAY 2011	SET NO.		SHEET NO. 8

PRINTED May 18, 2011 - 2:49pm FILENAME - J:\6005.1-FINAL\Contract 3665 - Dodt Street SPS\ARCHITECTURAL\SH1 9_DDOT_BLDG_EL.dwg



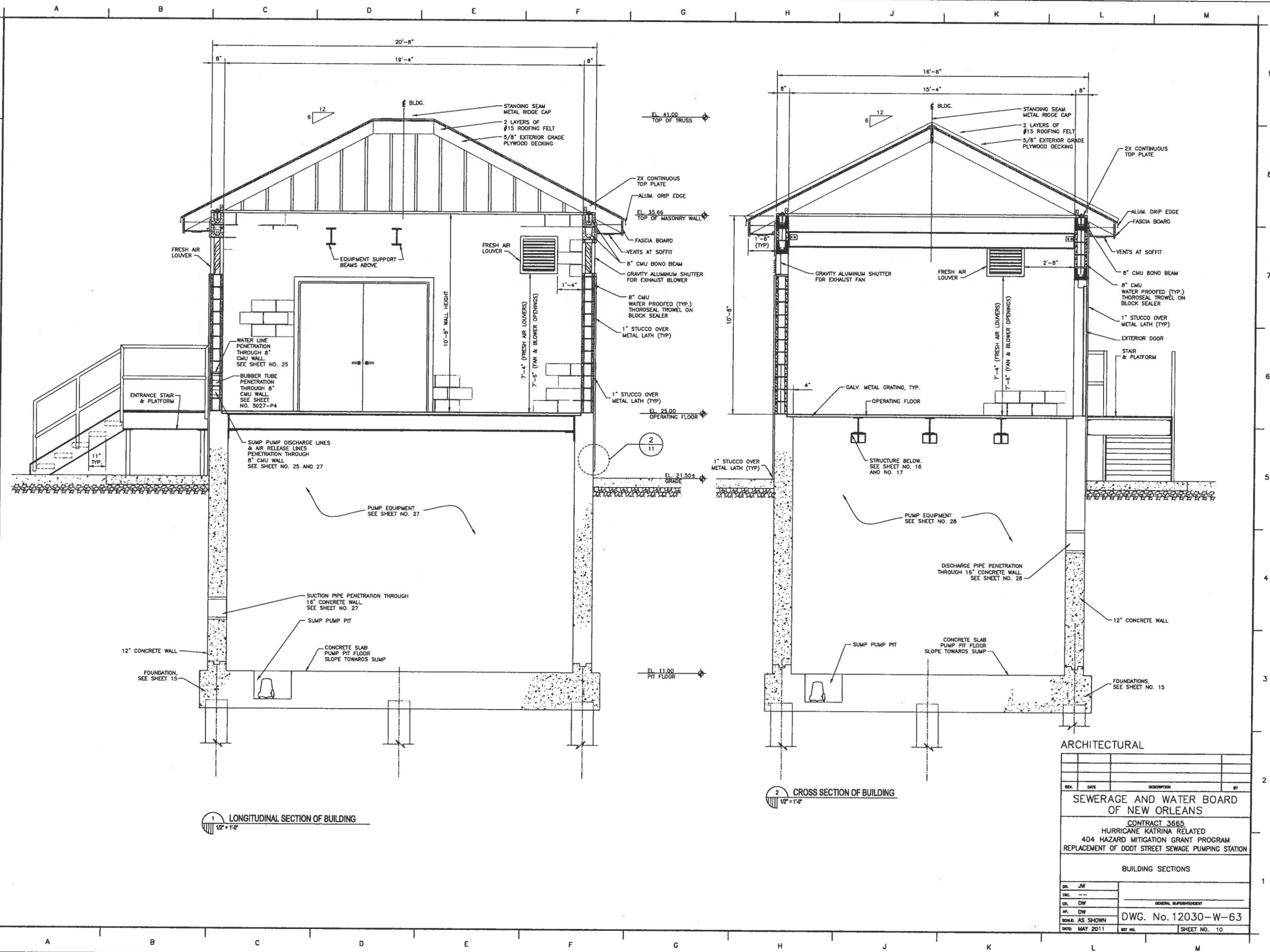
1 WEST ELEVATION
1/2" = 1'-0"



2 SOUTH ELEVATION
1/2" = 1'-0"

ARCHITECTURAL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3665 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF DODT STREET SEWAGE PUMPING STATION			
BUILDING ELEVATIONS			
DR. JW			
TIC			
DR. DW			
DR. DW			
SCALE AS NOTED	DWG. No. 12030-W-63		
DATE: MAY 2011	REV. NO.	SHEET NO. 9	

PRINTED May 18, 2011 - 2:49pm FILENAME - J:\6005.1-FINAL\Contract 3665 - Doot Street SPS\ARCHITECTURAL\SH1 10_DDOT_BLDG_SEC.dwg



1 LONGITUDINAL SECTION OF BUILDING
1/2" = 1'-0"

2 CROSS SECTION OF BUILDING
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD
OF NEW ORLEANS

CONTRACT 3665
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF DOOT STREET SEWAGE PUMPING STATION

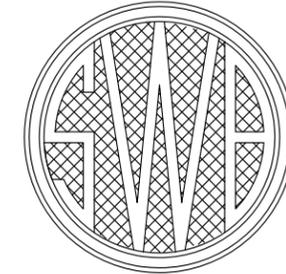
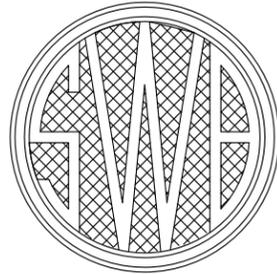
BUILDING SECTIONS

DR. JW	
TIC. ---	
CK. DW	
AP. DW	
SCHD. AS SHOWN	
DATE: MAY 2011	

DWG. No. 12030-W-63

SHEET NO. 10

SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3669 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE LIFT STATION NO. 6

DRAWING INDEX

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2	12037-W-63	GENERAL	LOCATION MAP/GENERAL NOTES				PLAN AND DETAILS
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4	12037-W-63	CIVIL	SITE PLAN - REQUIRED STATION AND PIPING	29	12037-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND WET WELL
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5	12037-W-63	CIVIL	SITE PAVING AND FENCING PLANS	31	12037-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND MISCELLANEOUS DETAILS
5A	12037-W-63	CIVIL	FENCING DETAILS				
6	12037-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	32	12037-W-63	MECHANICAL	WET WELL PLAN, SECTION AND DETAILS
7	12037-W-63	CIVIL	SEWER NOTES	33	12037-W-63	--	REFERENCE DRAWING
8	12037-W-63	ARCHITECTURAL	FLOOR FRAMING AND ROOF PLANS	34	12037-W-63	--	REFERENCE DRAWING
9	12037-W-63	ARCHITECTURAL	BUILDING ELEVATIONS	35	12037-W-63	--	REFERENCE DRAWING
10	12037-W-63	ARCHITECTURAL	BUILDING SECTIONS	36	12037-W-63	--	REFERENCE DRAWING
11	12037-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	37	12037-W-63	--	REFERENCE DRAWING
12	12037-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	38	12037-W-63	--	REFERENCE DRAWING
13	12037-W-63	STRUCTURAL	BORING LOGS	39	5031-P1	ELECTRICAL	ELECTRICAL - REQUIRED SITE PLAN
14	12037-W-63	STRUCTURAL	STRUCTURAL NOTES	40	5031-P2	ELECTRICAL	ELEMENTARY, PNEUMATIC, CONTROL AND ONE LINE DIAGRAMS
15	12037-W-63	STRUCTURAL	FOUNDATION PLAN AND SECTIONS				
16	12037-W-63	STRUCTURAL	OPERATING FLOOR FRAMING AND GRATING PLAN	41	5031-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
17	12037-W-63	STRUCTURAL	CEILING LEVEL FRAMING AND ROOF PLAN				
18	12037-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1	42	5031-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
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20	12037-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN	43	5031-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
21	12037-W-63	STRUCTURAL	STAIR SECTION AND DETAILS				
22	12037-W-63	STRUCTURAL	LADDER DETAILS	44	5031-P6	ELECTRICAL	SCADA PANEL RISER DIAGRAM AND DETAILS
23	12037-W-63	STRUCTURAL	ROOF SECTION AND DETAILS				
24	12037-W-63	STRUCTURAL	PPC PILE AND MISCELLANEOUS DETAILS				
25	12037-W-63	STRUCTURAL	WET WELL FOUNDATION PLAN AND DETAILS				
26	12037-W-63	STRUCTURAL	WET WELL ELEVATION SECTION AND DETAILS				



VICINITY MAP
AREA MAP NO SCALE

FINAL PLANS
THESE DOCUMENTS ARE NOT TO BE USED
FOR CONSTRUCTION, BIDDING, RECORDATION,
CONVEYANCE, SALES, OR AS THE BASIS FOR
THE ISSUANCE OF A PERMIT.

John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
6-14-11

FINAL SUBMITTAL
JUNE, 2011
NOT FOR CONSTRUCTION

DESIGN ENGINEERING INC.
3350 West Esplanade Ave. S.
Suite 205
Metairie, LA 70002
(504) 836-2150

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD
OF NEW ORLEANS

CONTRACT 3669
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF SEWAGE LIFT STATION NO. 6

TITLE SHEET

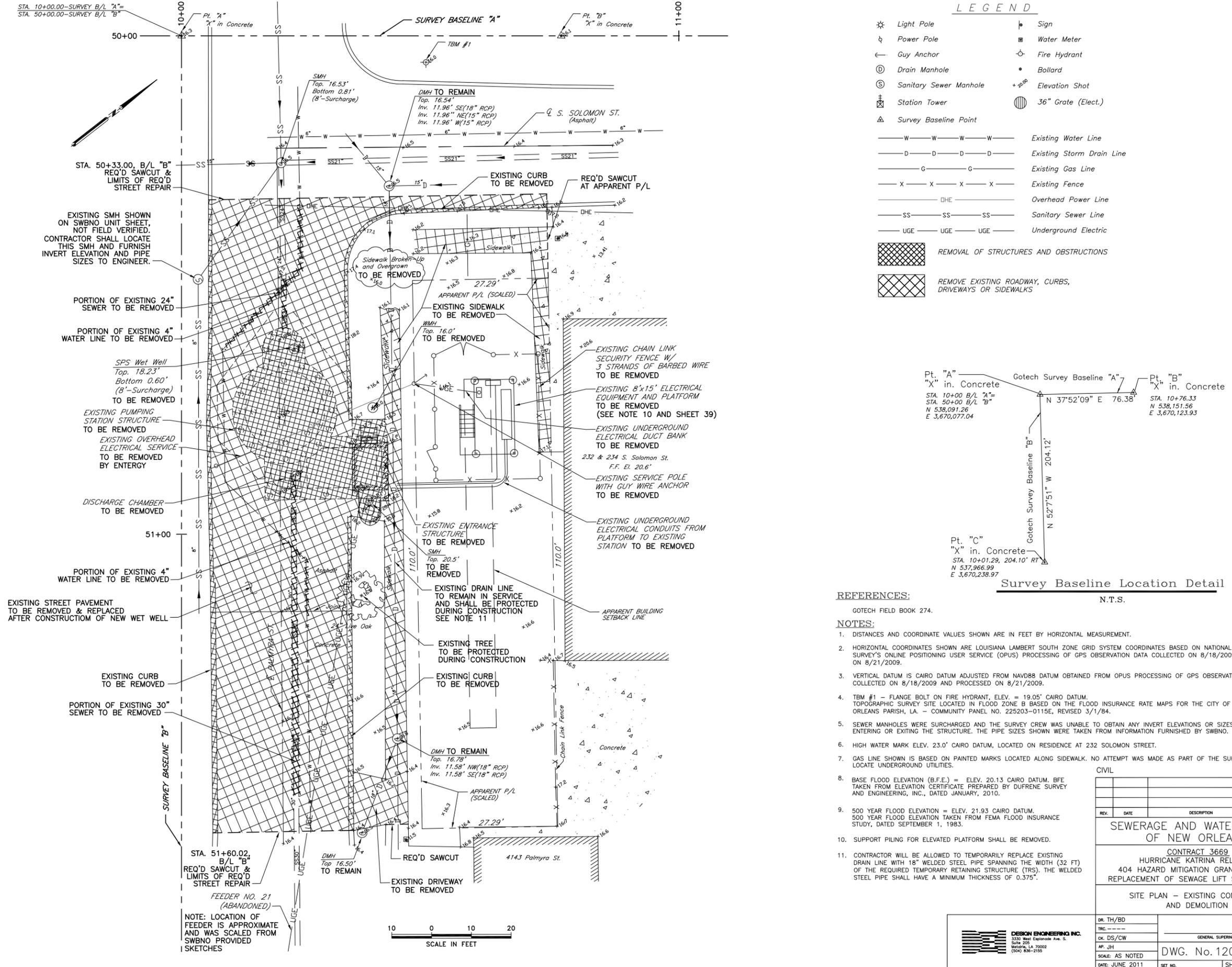
DR. TH/BD
TRC. --
CK. DS/CW
AP. JH
SCALE: NONE
DATE: JUNE 2011

GENERAL SUPERINTENDENT
DWG. No. 12040-W-63
SET NO.
SHEET NO. 1

DESIGN ENGINEERING INC.
3350 West Esplanade Ave. S.
Suite 205
Metairie, LA 70002
(504) 836-2150

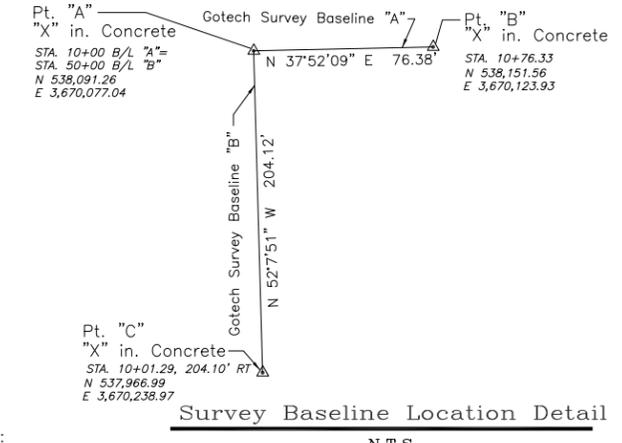
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A B C D E F G H J K L M



LEGEND

☼	Light Pole	⌚	Sign
⚡	Power Pole	⊠	Water Meter
←	Guy Anchor	⊕	Fire Hydrant
⊙	Drain Manhole	•	Bollard
⊙	Sanitary Sewer Manhole	+ 2.00	Elevation Shot
⊠	Station Tower	⊠	36" Grate (Elect.)
△	Survey Baseline Point		
— W — W — W — W —	Existing Water Line		
— D — D — D — D —	Existing Storm Drain Line		
— G — G — G — G —	Existing Gas Line		
— X — X — X — X —	Existing Fence		
— DHE —	Overhead Power Line		
— SS — SS — SS —	Sanitary Sewer Line		
— UGE — UGE — UGE —	Underground Electric		
[Cross-hatch pattern]	REMOVAL OF STRUCTURES AND OBSTRUCTIONS		
[Diagonal-hatch pattern]	REMOVE EXISTING ROADWAY, CURBS, DRIVEWAYS OR SIDEWALKS		



REFERENCES:

GOTECH FIELD BOOK 274.

NOTES:

- DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT.
- HORIZONTAL COORDINATES SHOWN ARE LOUISIANA LAMBERT SOUTH ZONE GRID SYSTEM COORDINATES BASED ON NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS) PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 8/18/2009 & PROCESSED ON 8/21/2009.
- VERTICAL DATUM IS CAIRO DATUM ADJUSTED FROM NAVD88 DATUM OBTAINED FROM OPUS PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 8/18/2009 AND PROCESSED ON 8/21/2009.
- TBM #1 - FLANGE BOLT ON FIRE HYDRANT, ELEV. = 19.05' CAIRO DATUM. TOPOGRAPHIC SURVEY SITE LOCATED IN FLOOD ZONE B BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 225203-0115E, REVISED 3/1/84.
- SEWER MANHOLES WERE SURCHARGED AND THE SURVEY CREW WAS UNABLE TO OBTAIN ANY INVERT ELEVATIONS OR SIZES OF PIPES ENTERING OR EXITING THE STRUCTURE. THE PIPE SIZES SHOWN WERE TAKEN FROM INFORMATION FURNISHED BY SWBNO.
- HIGH WATER MARK ELEV. 23.0' CAIRO DATUM, LOCATED ON RESIDENCE AT 232 SOLOMON STREET.
- GAS LINE SHOWN IS BASED ON PAINTED MARKS LOCATED ALONG SIDEWALK. NO ATTEMPT WAS MADE AS PART OF THE SURVEY TO LOCATE UNDERGROUND UTILITIES.
- BASE FLOOD ELEVATION (B.F.E.) = ELEV. 20.13 CAIRO DATUM. BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DUFRENE SURVEY AND ENGINEERING, INC., DATED JANUARY, 2010.
- 500 YEAR FLOOD ELEVATION = ELEV. 21.93 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
- SUPPORT PILING FOR ELEVATED PLATFORM SHALL BE REMOVED.
- CONTRACTOR WILL BE ALLOWED TO TEMPORARILY REPLACE EXISTING DRAIN LINE WITH 18" WELDED STEEL PIPE SPANNING THE WIDTH (32 FT) OF THE REQUIRED TEMPORARY RETAINING STRUCTURE (TRS). THE WELDED STEEL PIPE SHALL HAVE A MINIMUM THICKNESS OF 0.375".

CIVIL

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

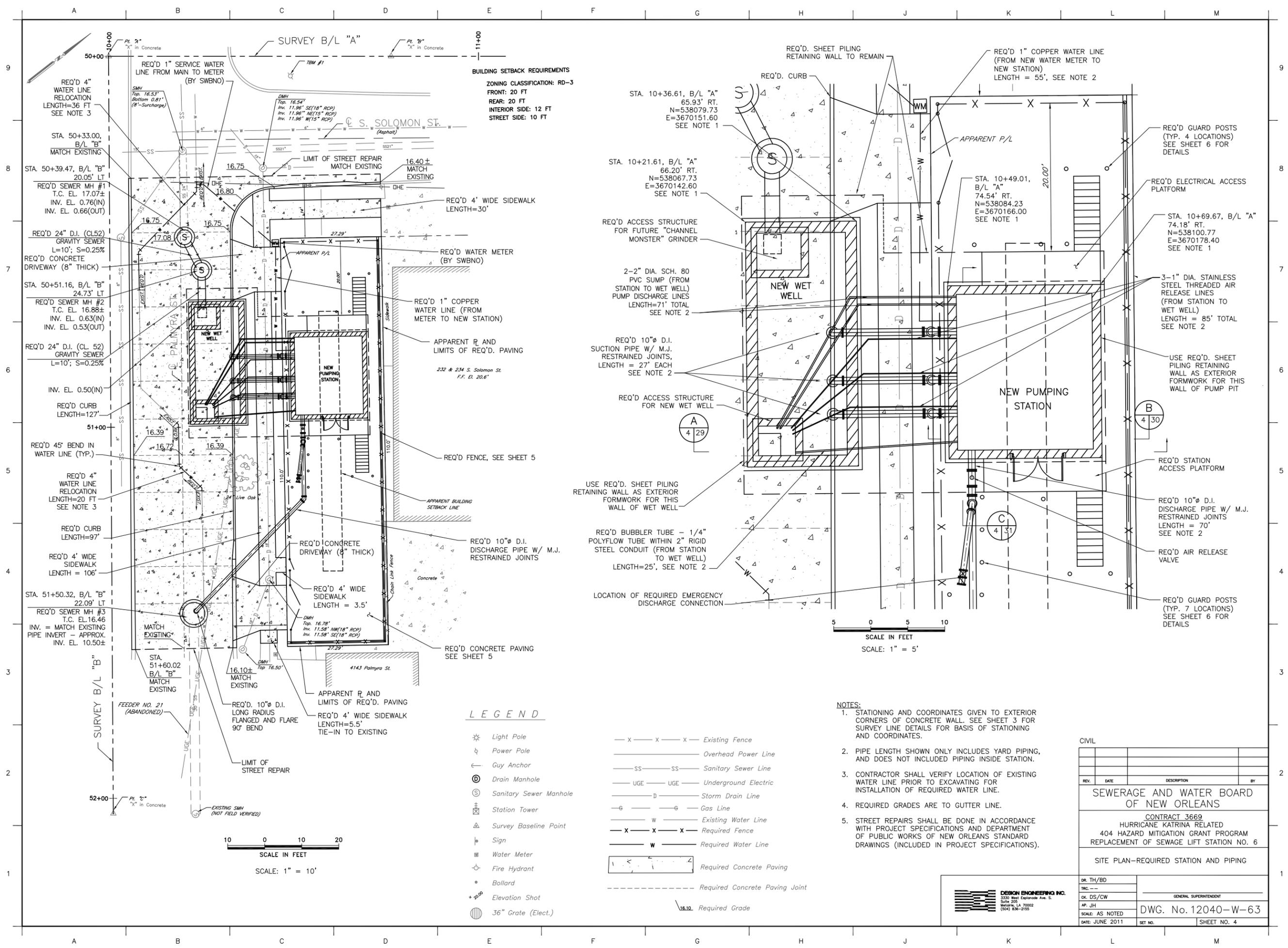
CONTRACT 3669
 HURRICANE KATRINA RELATED
 404 HAZARD MITIGATION GRANT PROGRAM
 REPLACEMENT OF SEWAGE LIFT STATION NO. 6

SITE PLAN - EXISTING CONDITIONS AND DEMOLITION

DR. TH/BD	
TRC. ---	
CK. DS/CW	
AP. JH	
SCALE: AS NOTED	DWG. No. 12040-W-63
DATE: JUNE 2011	SHEET NO. 3



PRINTED Jun 14, 2011 7:29am FILENAME J:\6005.1-FINAL\Contract 3669 - SPS No. 6\SHIT 4_NO 6_REQSITE.dwg



BUILDING SETBACK REQUIREMENTS
 ZONING CLASSIFICATION: RD-3
 FRONT: 20 FT
 REAR: 20 FT
 INTERIOR SIDE: 12 FT
 STREET SIDE: 10 FT

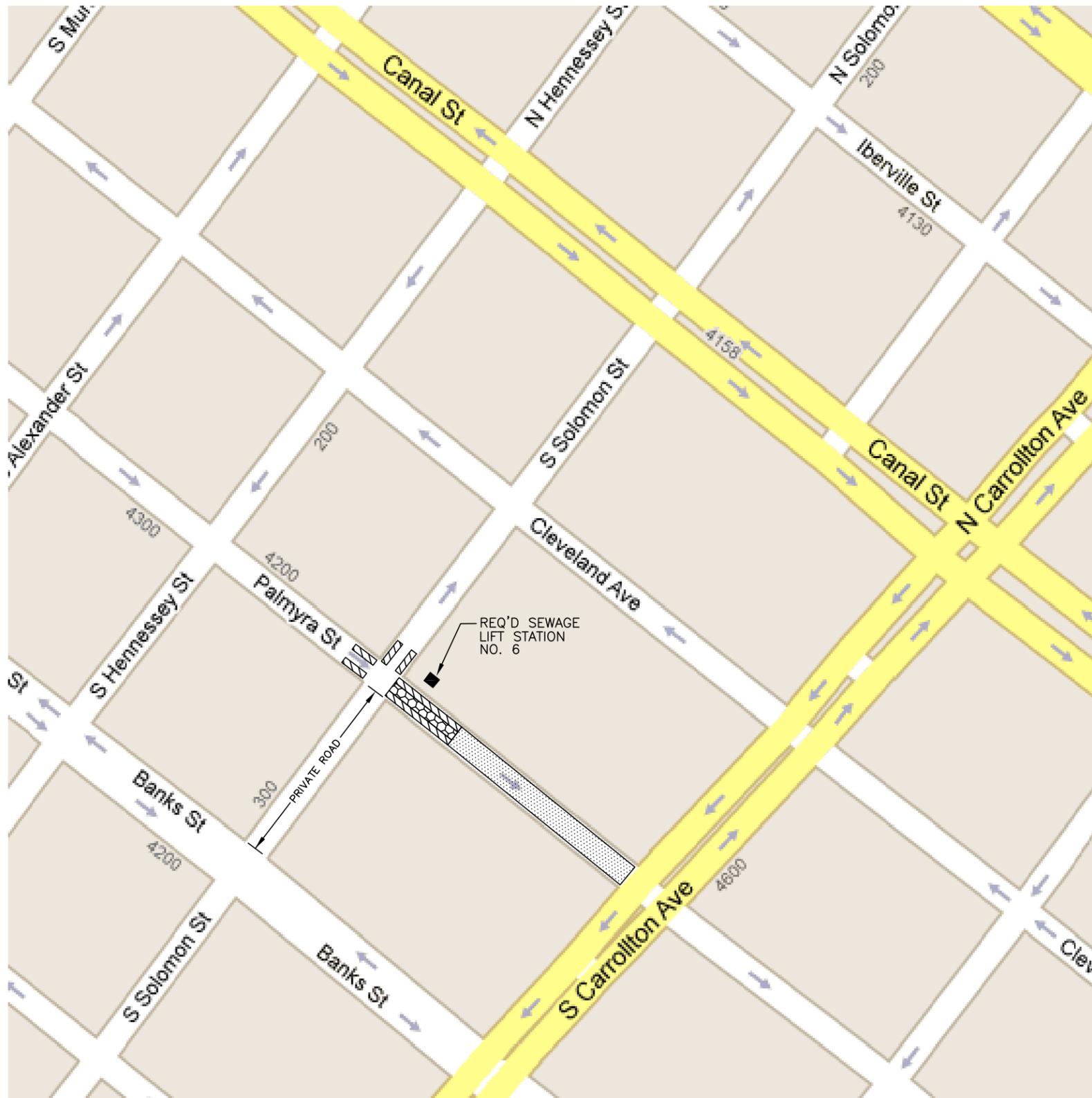
LEGEND

- ☼ Light Pole
- ⚡ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊕ Sanitary Sewer Manhole
- ⊞ Station Tower
- △ Survey Baseline Point
- ⊙ Sign
- ⊙ Water Meter
- ⊙ Fire Hydrant
- ⊙ Bollard
- ⊙ Elevation Shot
- ⊙ 36" Grate (Elect.)
- x - x - x - Existing Fence
- — — — — Overhead Power Line
- SS — SS — Sanitary Sewer Line
- UGE — UGE — Underground Electric
- D — D — Storm Drain Line
- G — G — Gas Line
- W — W — Existing Water Line
- X — X — X — Required Fence
- W — W — Required Water Line
- ▭ Required Concrete Paving
- - - - - Required Concrete Paving Joint
- 16.10 Required Grade

- NOTES:**
- STATIONING AND COORDINATES GIVEN TO EXTERIOR CORNERS OF CONCRETE WALL. SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF STATIONING AND COORDINATES.
 - PIPE LENGTH SHOWN ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
 - CONTRACTOR SHALL VERIFY LOCATION OF EXISTING WATER LINE PRIOR TO EXCAVATING FOR INSTALLATION OF REQUIRED WATER LINE.
 - REQUIRED GRADES ARE TO GUTTER LINE.
 - STREET REPAIRS SHALL BE DONE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND DEPARTMENT OF PUBLIC WORKS OF NEW ORLEANS STANDARD DRAWINGS (INCLUDED IN PROJECT SPECIFICATIONS).

CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3669 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE LIFT STATION NO. 6			
SITE PLAN-REQUIRED STATION AND PIPING			
DR. TH/BD			
TRC. --			
CK. DS/CW			
AP. JH			
SCALE: AS NOTED		DWG. No. 12040-W-63	
DATE: JUNE 2011			SHEET NO. 4





TRAFFIC CONTROL NOTES:

1. PARKING SHALL BE RESTRICTED DURING THE DURATION OF CONSTRUCTION AS INDICATED ON THIS SHEET AND AS FOLLOWS:
 - ALONG PALMYRA STREET: FROM 50 FT WEST OF THE CENTERLINE OF SOUTH SOLOMON STREET TO 150 FT EAST OF THE CENTERLINE OF SOUTH SOLOMON STREET.
 - ALONG SOUTH SOLOMON STREET: FROM PALMYRA STREET TO 50 FT NORTH OF THE CENTERLINE OF PALMYRA STREET.
2. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC ALONG PALMYRA STREET DURING CONSTRUCTION, EXCEPT DURING THE CONSTRUCTION OF REQUIRED SEWER MANHOLES, DEMOLITION OF EXISTING PUMPING STATION AND CONSTRUCTION OF TEMPORARY RETAINING STRUCTURE (TRS) WITHIN PALMYRA STREET.
3. DURING CLOSURE OF PALMYRA STREET INDICATED IN NOTE 2 ABOVE, TEMPORARY TWO-WAY TRAFFIC (FOR LOCAL ACCESS ONLY) WILL BE PERMITTED AS INDICATED ON THIS SHEET. THE CONTRACTOR SHALL PROVIDE SIGNAGE AND FLAGMEN IN ACCORDANCE WITH THE DEPARTMENT OF PUBLIC WORKS OF NEW ORLEANS (DPWNO) STANDARD DRAWINGS (INCLUDED IN PROJECT SPECIFICATIONS) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL WORK SHALL BE SCHEDULED TO MINIMIZE THE CLOSURE OF PALMYRA STREET. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR REVIEW AND APPROVAL BY THE OWNER AND DPWNO. THE SCHEDULE SHALL INDICATE THE IMPACT OF PROPOSED CONSTRUCTION ON PALMYRA STREET.
5. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL BY THE OWNER AND DPWNO A TRAFFIC CONTROL AND SIGNING PLAN INDICATING THE PROPOSED TRAVEL ROUTE FOR LARGE DELIVERY VEHICLES. TEMPORARY CLOSURE OF PALMYRA STREET AND SOUTH SOLOMON STREET WILL BE PERMITTED ON A LIMITED BASIS AS REQUIRED FOR DELIVERY BY LARGE VEHICLES. ONLY ONE OF THESE STREETS SHALL BE CLOSED AT A TIME. THE PLAN SHALL INDICATE THE ANTICIPATED EFFECT OF THE DELIVERIES TO PARKING ALONG THE LOCAL STREETS OF THE DELIVERY ROUTE. THE CONTRACTOR SHALL PROVIDE ADVANCE WARNING BY SIGNAGE AND FLAGMEN DURING SUCH TEMPORARY STREET CLOSURES IN ACCORDANCE WITH DPWNO STANDARD DRAWINGS AND MUTCD. THE PLAN SHALL ADDRESS WARNING METHODS THE CONTRACTOR PROPOSES TO EMPLOY.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER AND DPWNO AT LEAST 72 HOURS IN ADVANCE OF ANY TEMPORARY STREET CLOSURES.
7. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ALL PROPERTY OWNERS ALONG THE LOCAL STREETS OF THE DELIVERY ROUTE OF POSSIBLE STREET CLOSURES AND PARKING RESTRICTIONS.
8. SHOULD ADDITIONAL AREAS OF RESTRICTED PARKING BE REQUIRED, THE CONTRACTOR SHALL PROVIDE THE OWNER AND DPWNO WITH A PLAN FOR REVIEW AND APPROVAL INDICATING THE ADDITIONAL AREAS THAT WILL BE AFFECTED. THE CONTRACTOR SHALL FURNISH THE REQUIRED PLAN AT LEAST FOUR (4) WEEKS IN ADVANCE.

LEGEND:

DPWNO DEPARTMENT OF PUBLIC WORKS OF NEW ORLEANS
 MUTCD MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

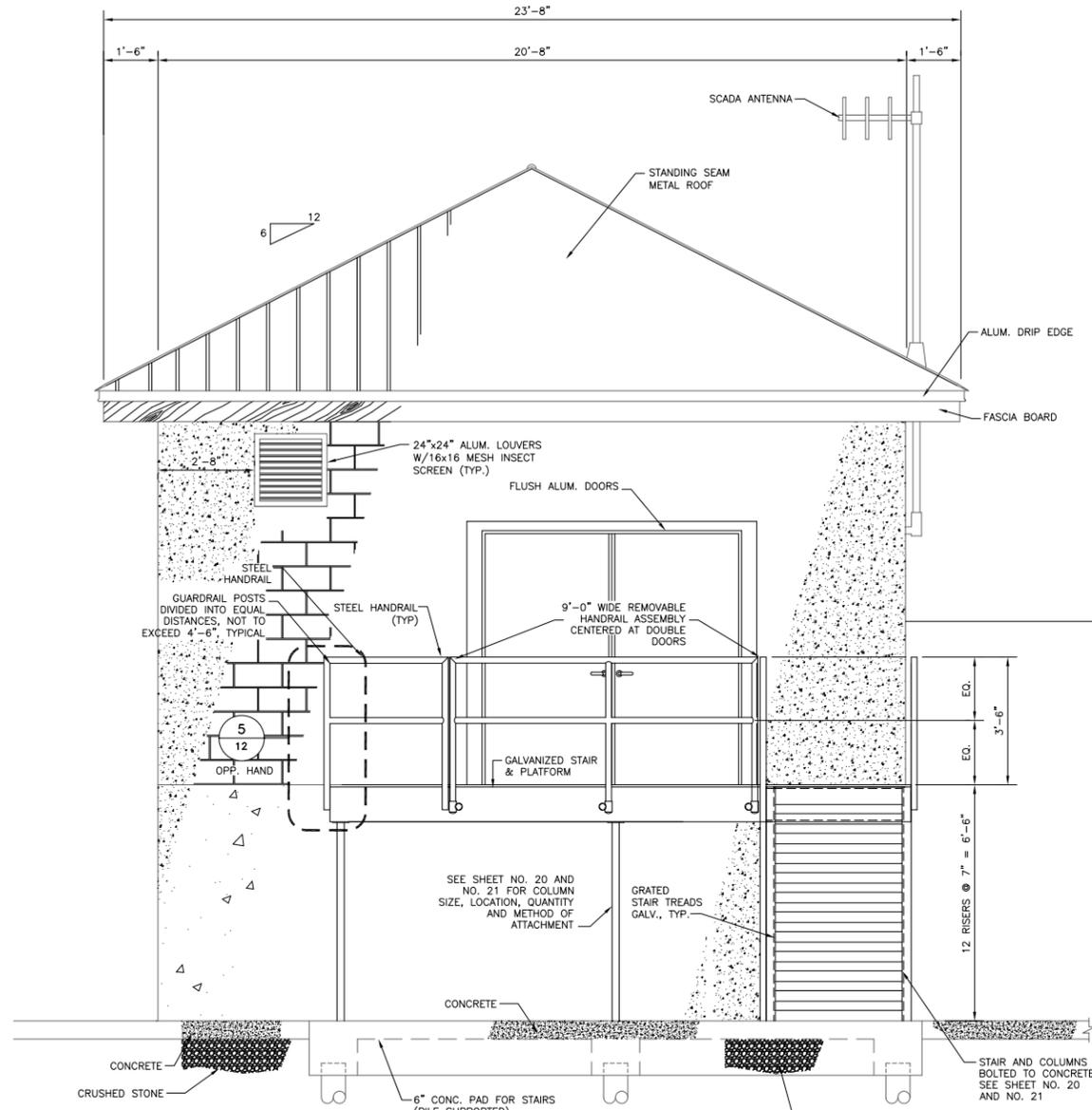
-  RESTRICTED PARKING DURING ENTIRE DURATION OF CONSTRUCTION
-  PERMITTED STREET CLOSURE DURING CONSTRUCTION OF BYPASS SEWER MANHOLES, DEMOLITION OF EXISTING PUMPING STATION AND CONSTRUCTION OF TRS WITHIN PALMYRA STREET
-  TEMPORARY TWO WAY TRAFFIC DURING CLOSURE OF PALMYRA STREET (FOR LOCAL ACCESS ONLY)

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3669 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE LIFT STATION NO. 6			
TRAFFIC CONTROL			
DR. TH/BD			
TRC. --			
CK. DS/CW			
AP. JH			
SCALE: NONE			
DATE: JUNE 2011			

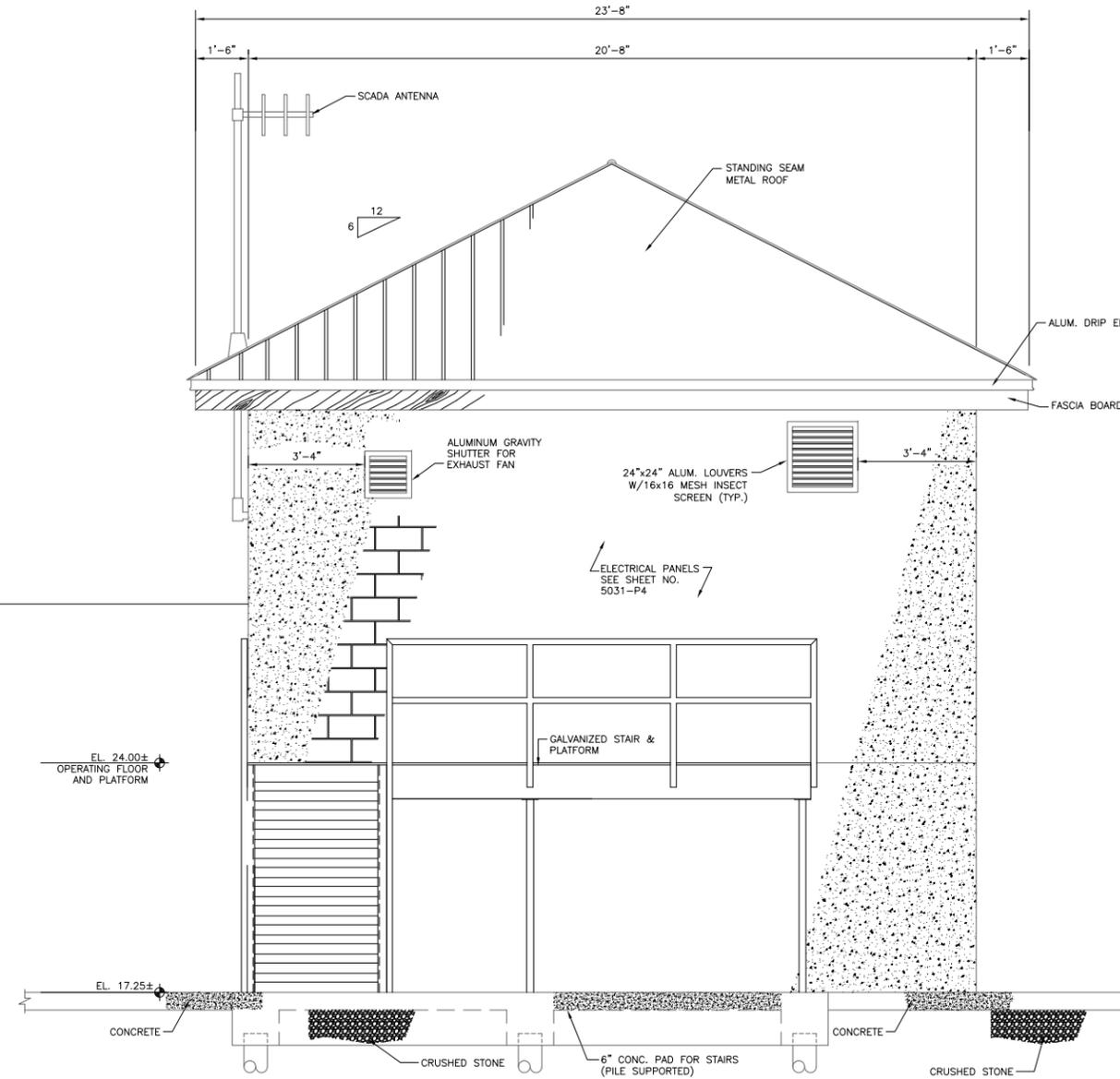
DESIGN ENGINEERING INC.
 3330 West Esplanade Ave. S.
 Suite 200
 Metairie, LA 70002
 (504) 835-2100

GENERAL SUPERINTENDENT
 DWG. No. 12040-W-63
 SHEET NO. 4A

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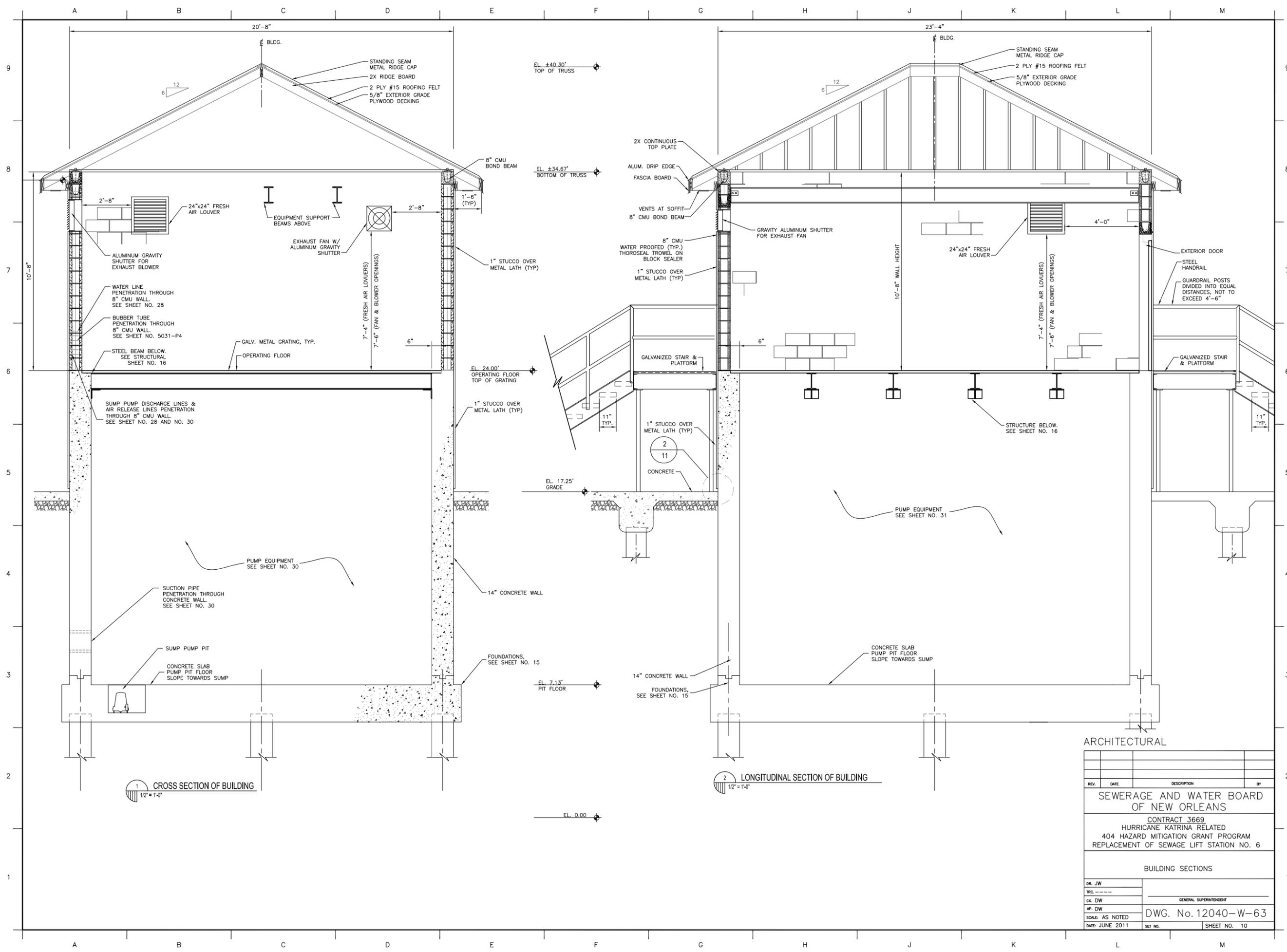
1 SOUTH ELEVATION
1/2" = 1'-0"



2 NORTH ELEVATION
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3669 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE LIFT STATION NO. 6			
BUILDING ELEVATIONS			
DR. JW			
TRC. ---			
CK. DW			GENERAL SUPERINTENDENT
AP. DW			
SCALE: AS NOTED		DWG. No. 12040-W-63	
DATE: JUNE 2011	SET NO.	SHEET NO. 9	



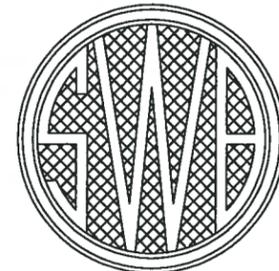
1 CROSS SECTION OF BUILDING
1/2" = 1'-0"

2 LONGITUDINAL SECTION OF BUILDING
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3669 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF SEWAGE LIFT STATION NO. 6			
BUILDING SECTIONS			
DR. JW			
TRC. ---			
CK. DW			
AP. DW			
SCALE: AS NOTED	DWG. No. 12040-W-63		
DATE: JUNE 2011	SET NO.	SHEET NO. 10	

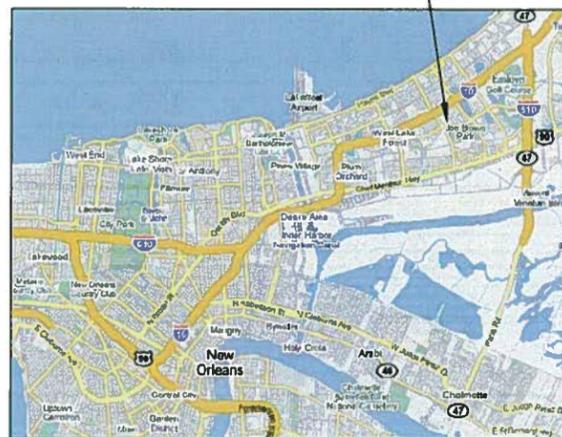
SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3666 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAKE FOREST SEWAGE PUMPING STATION

DRAWING INDEX

SHEET No.	DRAWING No.	Discipline	TITLE	SHEET No.	DRAWING No.	Discipline	TITLE
1	12037-W-63	GENERAL	TITLE SHEET	27	12037-W-63	MECHANICAL	LONGITUDINAL SECTION
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3	12037-W-63	CIVIL	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION	29	12037-W-63	MECHANICAL	REHABILITATION AND DETAILS FOR WET WELL
4	12037-W-63	CIVIL	SITE PLAN - REQUIRED STATION & PIPING	30	12037-W-63	---	REFERENCE DRAWING
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5A	12037-W-63	CIVIL	FENCING DETAILS	32	12037-W-63	---	REFERENCE DRAWING
6	12037-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	33	12037-W-63	---	REFERENCE DRAWING
7	12037-W-63	CIVIL	SEWER NOTES	34	5028-P1	ELECTRICAL	ELECTRICAL - REQUIRED SITE PLAN
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9	12037-W-63	ARCHITECTURAL	BUILDING ELEVATIONS	36	5028-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
10	12037-W-63	ARCHITECTURAL	BUILDING SECTIONS	37	5028-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
11	12037-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	38	5028-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
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18	12037-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1				
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26	12037-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION & WET WELL				



VICINITY MAP
AREA MAP NO SCALE

FINAL SUBMITTAL PLANS
THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
3-31-11

FINAL SUBMITTAL
MARCH, 2011
NOT FOR CONSTRUCTION
 DESIGN ENGINEERING INC.
2330 West Esplanade Ave. 2
Suite 205
Metairie, LA 70002
(504) 834-2150

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3666 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAKE FOREST SEWAGE PUMPING STATION			
TITLE SHEET			

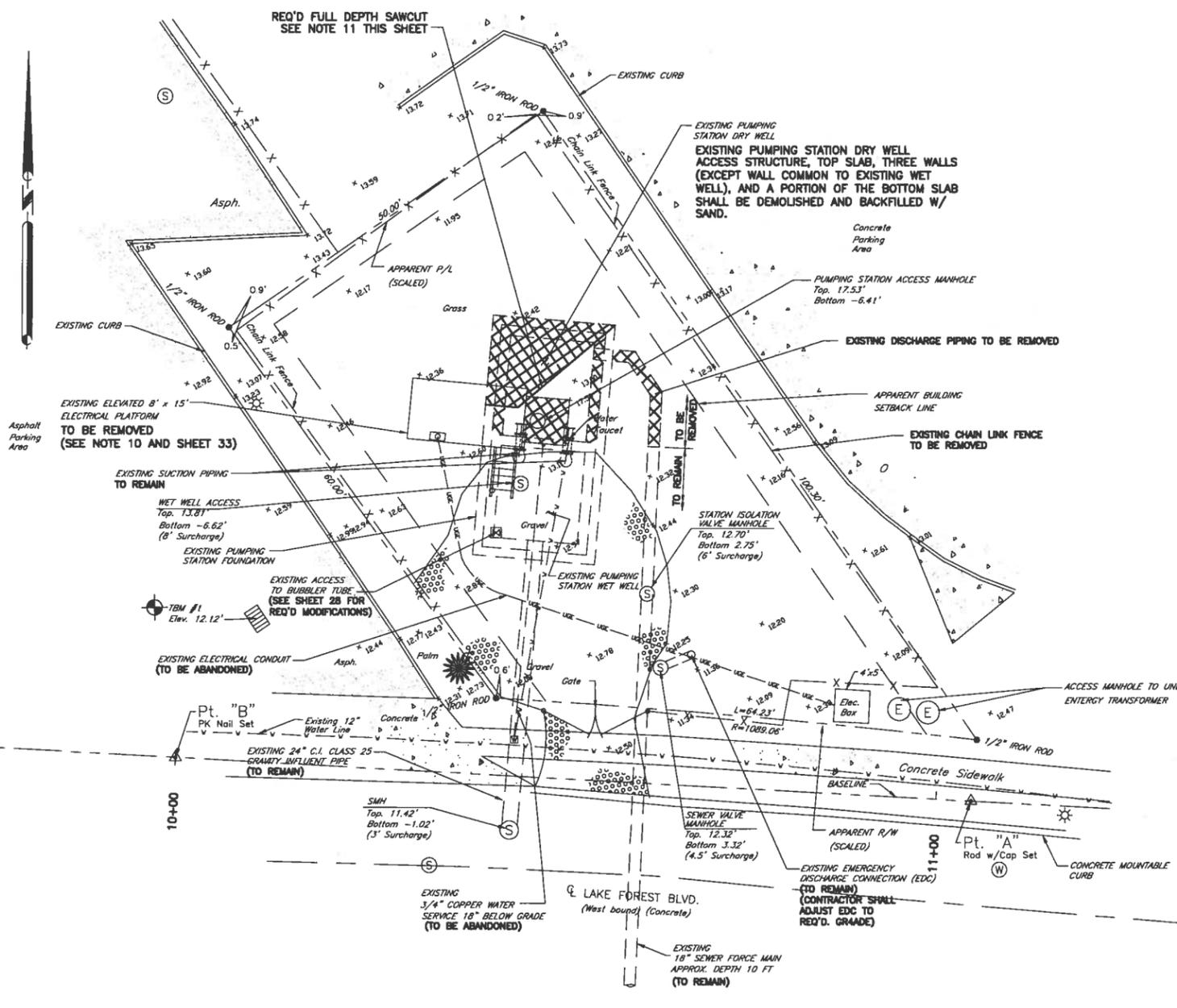
DR. TH/BD		GENERAL SUPERVISOR
TIC. --		
CL. DS/CW		
AP. JH		DWG. No. 12037-W-63
SCALE: NONE		
DATE: MARCH, 2010	REV. NO.	SHEET NO. 1



PRINTED Mar 30, 2011 1:56pm FILENAME -- J:\6005.1-FINAL\Contract 3666 - Lake Forest SPS\SHT 3_LK F_EXSITE.dwg

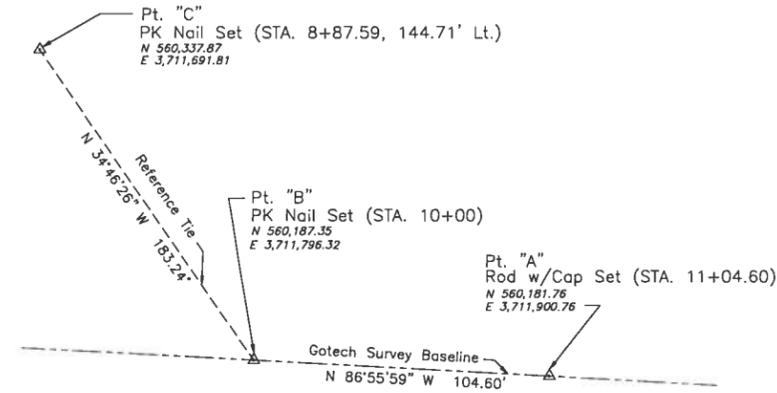
A B C D E F G H J K L M

9 8 7 6 5 4 3 2 1



LEGEND

- ✱ Light Pole
- ⚡ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊕ Station Tower
- ▲ Survey Baseline Point
- ⚓ Sign
- ⊠ Water Meter
- ⊕ Fire Hydrant
- Ballard
- + 88.88 Elevation Shot
- ⊙ 36" Grate (Elect.)
- ▨ Gravel
- x — x — x — x — Existing Fence
- v — v — v — Existing Water Line
- OHE — Overhead Power Line
- SS — SS — SS — Sanitary Sewer Line
- UGE — UGE — UGE — Underground Electric
- ⊕ TBM #1 - TOP OF GRATE, ELEV. = 12.12' CAIRO DATUM.



Survey Baseline Location Detail
N.T.S.

REFERENCES:

GOTECH FIELD BOOK 274.

NOTES:

1. DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT.
2. HORIZONTAL COORDINATES SHOWN ARE LOUISIANA LAMBERT SOUTH ZONE GRID SYSTEM COORDINATES BASED ON NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS) PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 & PROCESSED ON 7/9/2009.
3. VERTICAL DATUM IS CAIRO DATUM ADJUSTED FROM NAVD83 DATUM OBTAINED FROM OPUS PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 AND PROCESSED ON 7/9/2009.
4. TBM #1 - TOP OF GRATE, ELEV. = 12.12' CAIRO DATUM.
5. TOPOGRAPHIC SURVEY SITE LOCATED IN FLOOD ZONE A4 BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 225203-0115E, REVISED 3/1/84.
6. SEWER MANHOLES WERE SURCHARGED AND THE SURVEY CREW WAS UNABLE TO OBTAIN ANY INVERT ELEVATIONS OR SIZES OF PIPES ENTERING OR EXITING THE STRUCTURE.
7. HIGH WATER MARK ELEV. 18.78' CAIRO DATUM OBSERVED ON 24" LIVE OAK IN MEDIAN OF LAKE FOREST BLVD.
8. BASE FLOOD ELEVATION (B.F.E.) = ELEV. 16.13 CAIRO DATUM. BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DEFRENE SURVEY & ENGINEERING, INC., DATED JANUARY, 2010.
9. 500 YEAR FLOOD ELEVATION = ELEV. 22.73 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
10. SUPPORT PILING FOR ELEVATED PLATFORM SHALL BE REMOVED.

UPON REMOVAL OF PORTION OF BOTTOM SLAB AND EXPOSURE OF EXISTING PILING, THE CONTRACTOR SHALL LOCATE EXISTING PILINGS AND PROVIDE LOCATIONS TO BOARD ENGINEER TO DETERMINE IF ANY CONFLICTS EXIST WITH THE NEW PLANS.



Civil

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3666 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAKE FOREST SEWAGE PUMPING STATION			
SITE PLAN - EXISTING CONDITIONS AND DEMOLITION			

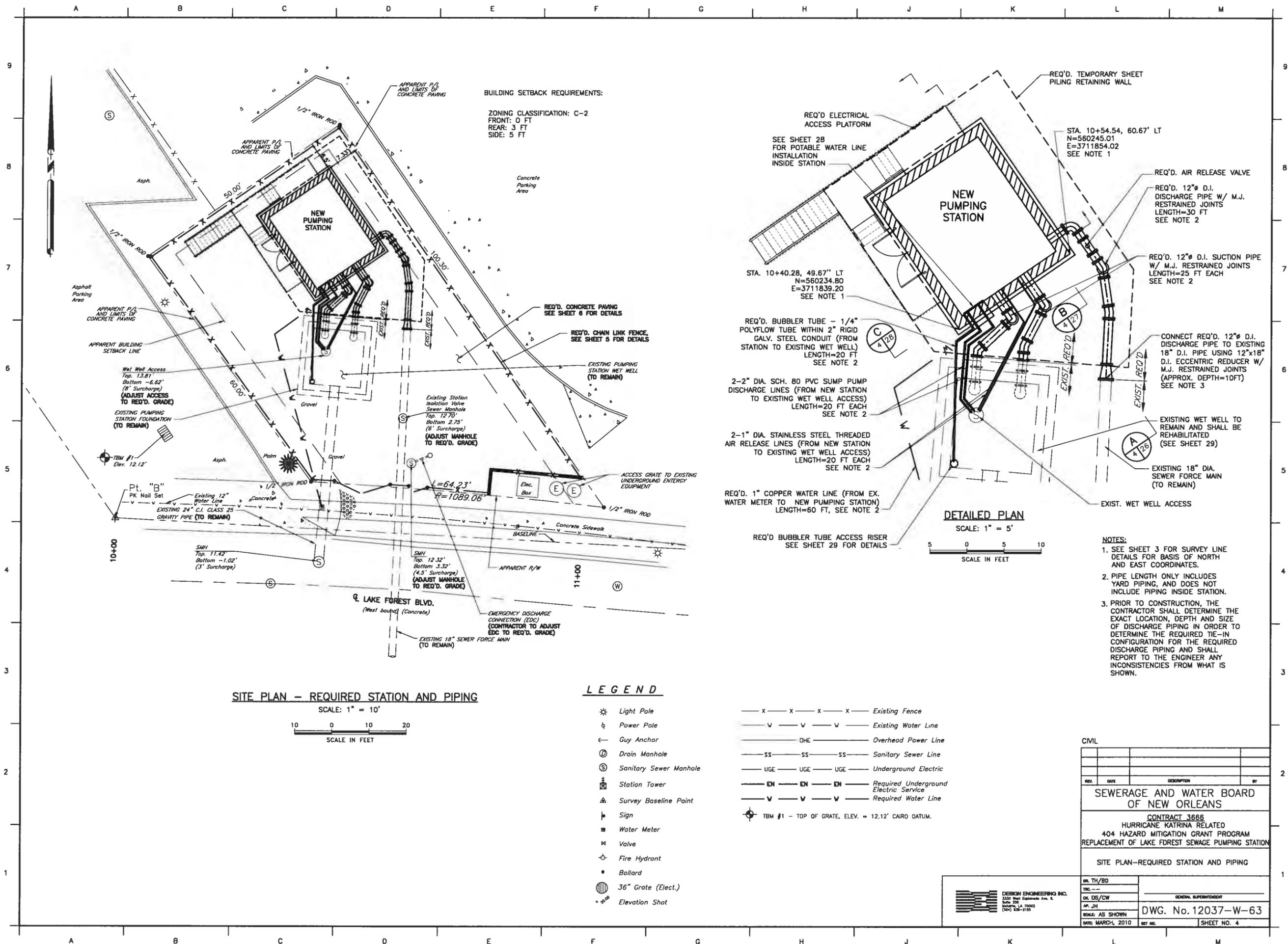
DESIGN ENGINEERING INC.
3330 West Esplanade Ave. 2
Bldg 503
Metairie, LA 70002
(504) 885-2155

DR. TH/BD	
TIC	
CL. DS/CW	GENERAL SUPERVISOR
AP. JH	
SCALE AS SHOWN	DWG. No. 12037-W-63
DATE: MARCH, 2011	SHEET NO. 3

A B C D E F G H J K L M

1 2 3 4 5 6 7 8 9

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BUILDING SETBACK REQUIREMENTS:
 ZONING CLASSIFICATION: C-2
 FRONT: 0 FT
 REAR: 3 FT
 SIDE: 5 FT

SITE PLAN - REQUIRED STATION AND PIPING

SCALE: 1" = 10'
 10 0 10 20
 SCALE IN FEET

LEGEND

- ⊛ Light Pole
 - ⊙ Power Pole
 - ⊙ Guy Anchor
 - ⊙ Drain Manhole
 - ⊙ Sanitary Sewer Manhole
 - ⊙ Station Tower
 - ⊙ Survey Baseline Point
 - ⊙ Sign
 - ⊙ Water Meter
 - ⊙ Valve
 - ⊙ Fire Hydrant
 - ⊙ Bollard
 - ⊙ 36" Grate (Elect.)
 - ⊙ Elevation Shot
- x-x-x-x- Existing Fence
 - v-v-v-v- Existing Water Line
 - DHE- Overhead Power Line
 - SS-SS-SS- Sanitary Sewer Line
 - UGE-UGE-UGE- Underground Electric
 - EN-EN-EN- Required Underground Electric Service
 - W-W-W-W- Required Water Line
- ⊙ TBM #1 - TOP OF GRATE, ELEV. = 12.12' CAIRO DATUM.

REQ'D ELECTRICAL ACCESS PLATFORM
 SEE SHEET 28 FOR POTABLE WATER LINE INSTALLATION INSIDE STATION

STA. 10+40.28, 49.67" LT
 N=560234.80
 E=3711839.20
 SEE NOTE 1

REQ'D BUBBLER TUBE - 1/4" POLYFLOW TUBE WITHIN 2" RIGID GALV. STEEL CONDUIT (FROM STATION TO EXISTING WET WELL) LENGTH=20 FT
 SEE NOTE 2

2-2" DIA. SCH. 80 PVC SUMP PUMP DISCHARGE LINES (FROM NEW STATION TO EXISTING WET WELL ACCESS) LENGTH=20 FT EACH
 SEE NOTE 2

2-1" DIA. STAINLESS STEEL THREADED AIR RELEASE LINES (FROM NEW STATION TO EXISTING WET WELL ACCESS) LENGTH=20 FT EACH
 SEE NOTE 2

REQ'D 1" COPPER WATER LINE (FROM EX. WATER METER TO NEW PUMPING STATION) LENGTH=60 FT, SEE NOTE 2

REQ'D BUBBLER TUBE ACCESS RISER
 SEE SHEET 29 FOR DETAILS

DETAILED PLAN

SCALE: 1" = 5'
 5 0 5 10
 SCALE IN FEET

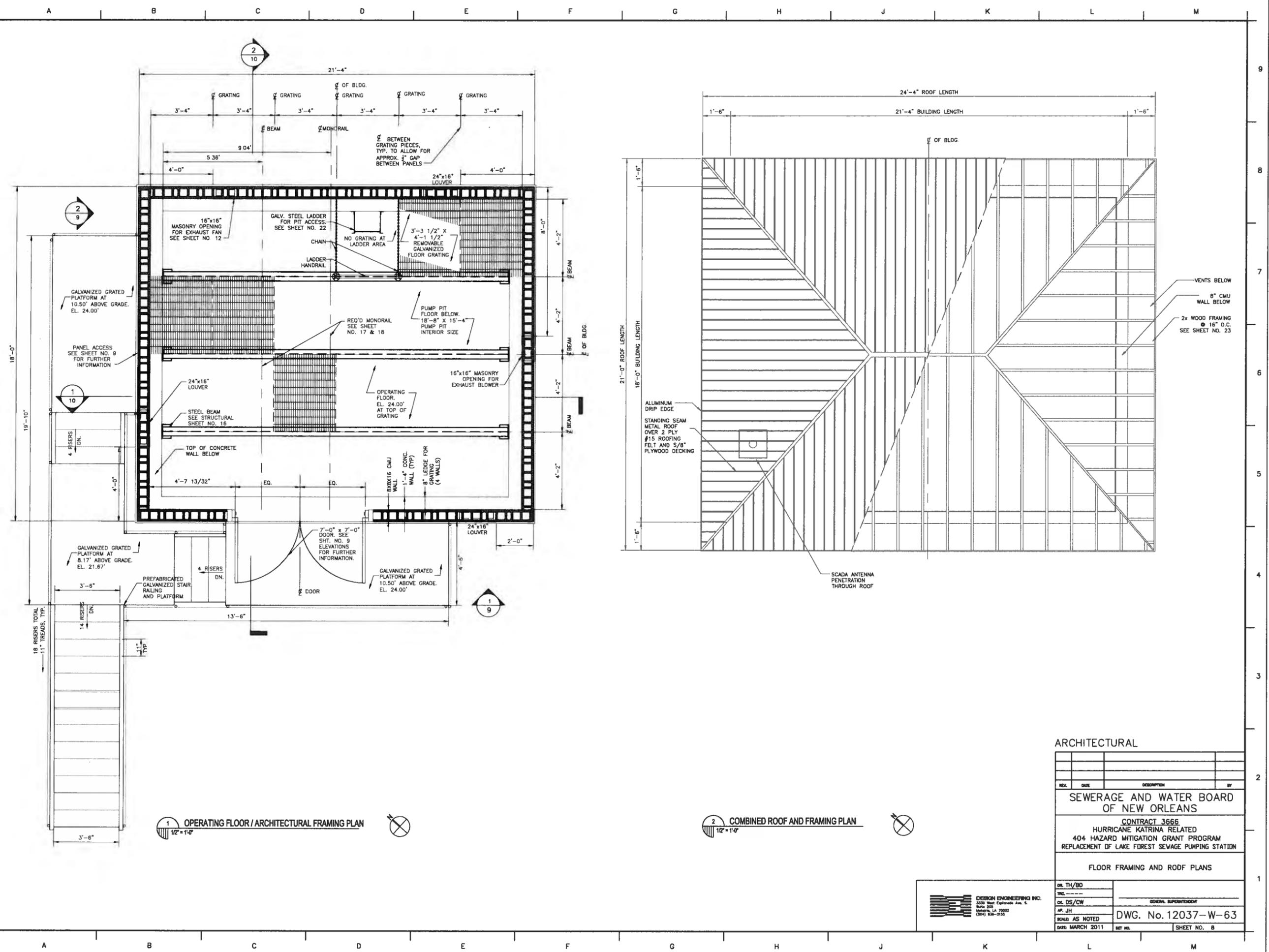
NOTES:

1. SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF NORTH AND EAST COORDINATES.
2. PIPE LENGTH ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, DEPTH AND SIZE OF DISCHARGE PIPING IN ORDER TO DETERMINE THE REQUIRED TIE-IN CONFIGURATION FOR THE REQUIRED DISCHARGE PIPING AND SHALL REPORT TO THE ENGINEER ANY INCONSISTENCIES FROM WHAT IS SHOWN.

CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3666 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAKE FOREST SEWAGE PUMPING STATION			
SITE PLAN-REQUIRED STATION AND PIPING			
DR. TH/BD			
TWC			
CL DS/CW			GENERAL SUPERVISOR
AP. JH			
SCALE AS SHOWN		DWG. No. 12037-W-63	
DATE: MARCH, 2010	REV. NO.		SHEET NO. 4



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1 OPERATING FLOOR / ARCHITECTURAL FRAMING PLAN
1/2" = 1'-0"

2 COMBINED ROOF AND FRAMING PLAN
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

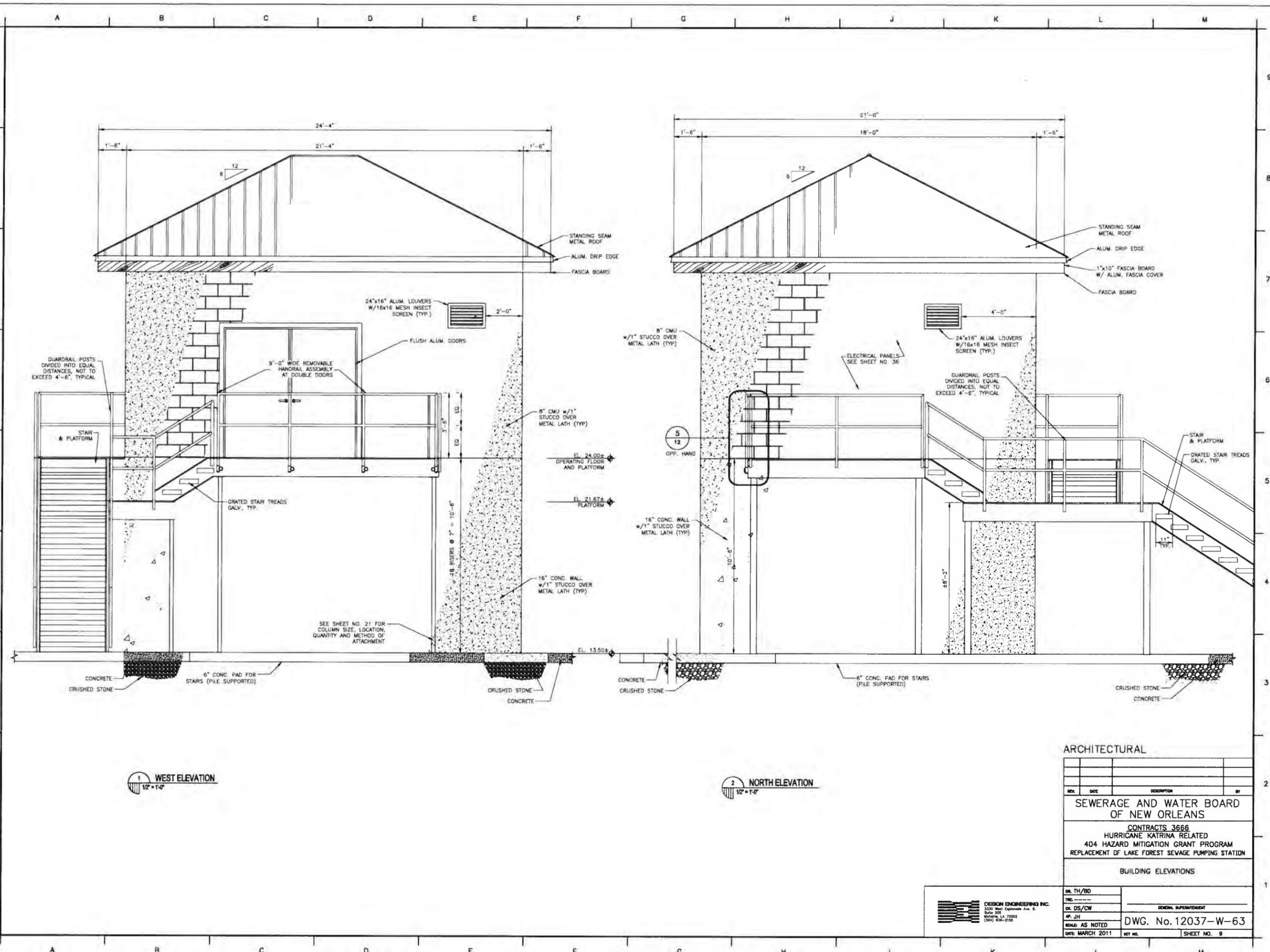
CONTRACT 3666
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF LAKE FOREST SEWAGE PUMPING STATION

FLOOR FRAMING AND ROOF PLANS

DESIGN ENGINEERING INC.
3330 West Esplanade Ave. 2
Baton Rouge, LA 70802
(504) 836-2155

DR. TH/BD	
TRC. ---	
CL. DS/CW	
AP. JH	
SCALE AS NOTED	DWG. No. 12037-W-63
DATE: MARCH 2011	SHEET NO. 8

PRINTED Mar 31, 2011 - 7:50am FILENAME - J:\B005.1-FINAL\Contract 3666 - Lake Forest SPS\ARCHITECTURAL\SHT 9_LK_F_BLDG_EL.dwg



1 WEST ELEVATION
1/2" = 1'-0"

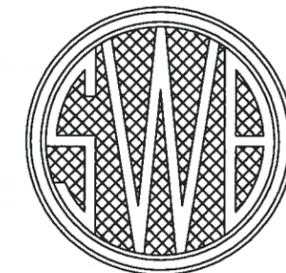
2 NORTH ELEVATION
1/2" = 1'-0"

ARCHITECTURAL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACTS 3666 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAKE FOREST SEWAGE PUMPING STATION			
BUILDING ELEVATIONS			
DR. TH/BD			
CHK. DS/CW			
DATE: MARCH 2011	REV. NO.	SHEET NO. 9	

DESIGN ENGINEERING INC.
3330 West Esplanade, Ave. 2
Suite 200
Metairie, LA 70002
(504) 885-2155

DWG. No. 12037-W-63

SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3670 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAWRENCE SEWAGE PUMPING STATION

DRAWING INDEX

SHEET No.	DRAWING No.	Discipline	TITLE	SHEET No.	DRAWING No.	Discipline	TITLE
1	12041-W-63	GENERAL	TITLE SHEET	27	12041-W-63	MECHANICAL	LONGITUDINAL SECTION
2	12041-W-63	GENERAL	LOCATION MAP/GENERAL NOTES	28	12041-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION & MISCELLANEOUS DETAILS
3	12041-W-63	CIVIL	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION	29	12041-W-63	MECHANICAL	REHABILITATION AND DETAILS FOR WET WELL
4	12041-W-63	CIVIL	SITE PLAN - REQUIRED STATION & PIPING	30	12041-W-63	---	REFERENCE DRAWING
5	12041-W-63	CIVIL	SITE PAVING AND FENCING PLAN	31	12041-W-63	---	REFERENCE DRAWING
5A	12041-W-63	CIVIL	FENCING DETAILS	32	12041-W-63	---	REFERENCE DRAWING
6	12041-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	33	12041-W-63	---	REFERENCE DRAWING
7	12041-W-63	CIVIL	SEWER NOTES	34	5032-P1	ELECTRICAL	ELECTRICAL - REQUIRED SITE PLAN
8	12041-W-63	ARCHITECTURAL	FLOOR FRAMING AND ROOF PLANS	35	5032-P2	ELECTRICAL	ELEMENTARY, PNEUMATIC, CONTROL AND ONE LINE DIAGRAMS
9	12041-W-63	ARCHITECTURAL	BUILDING ELEVATIONS	36	5032-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
10	12041-W-63	ARCHITECTURAL	BUILDING SECTIONS	37	5032-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
11	12041-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	38	5032-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
12	12041-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	39	5032-P6	ELECTRICAL	SCADA PANEL RISER DIAGRAM AND DETAILS
13	12041-W-63	STRUCTURAL	BORING LOGS				
14	12041-W-63	STRUCTURAL	GENERAL AND STRUCTURAL NOTES				
15	12041-W-63	STRUCTURAL	FOUNDATION PLAN AND DETAILS				
16	12041-W-63	STRUCTURAL	OPERATING FLOOR FRAMING AND GRATING PLAN				
17	12041-W-63	STRUCTURAL	CEILING LEVEL FRAMING AND ROOF PLAN				
18	12041-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1				
19	12041-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 2				
20	12041-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN				
21	12041-W-63	STRUCTURAL	STAIR SECTIONS AND DETAILS				
22	12041-W-63	STRUCTURAL	LADDER DETAILS				
23	12041-W-63	STRUCTURAL	ROOF SECTION AND DETAILS				
24	12041-W-63	STRUCTURAL	PPC PILE AND MISCELLANEOUS DETAILS				
25	12041-W-63	MECHANICAL	MECHANICAL EQUIPMENT LAYOUT PLAN				
26	12041-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION & WET WELL				

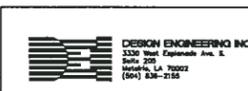


VICINITY MAP
AREA MAP NO SCALE

FINAL PLANS
THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.
John Holtgrave, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO. 3-31-11

FINAL SUBMITTAL
MARCH 2011
NOT FOR CONSTRUCTION
DESIGN ENGINEERING INC.
3330 West Esplanade Ave. E.
Suite 205
Metairie, LA 70002
(504) 834-2155

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3670 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAWRENCE SEWAGE PUMPING STATION			
TITLE SHEET			
DR. TH/BO			
TRC			
CC. DS/CW			
DR. JH			
SCALE: AS SHOWN		DWG. No. 12041-W-63	
DATE: MARCH 2011	REV. NO.		SHEET NO. 1



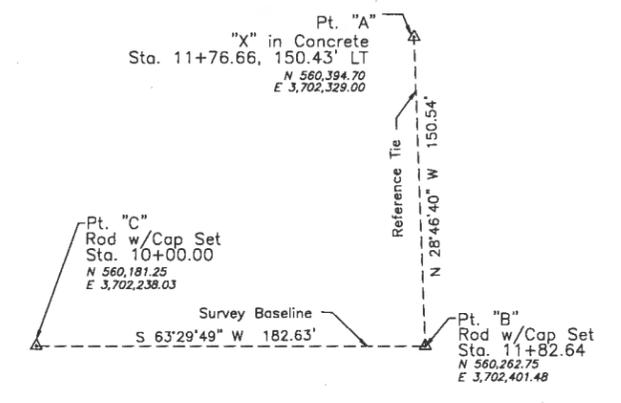
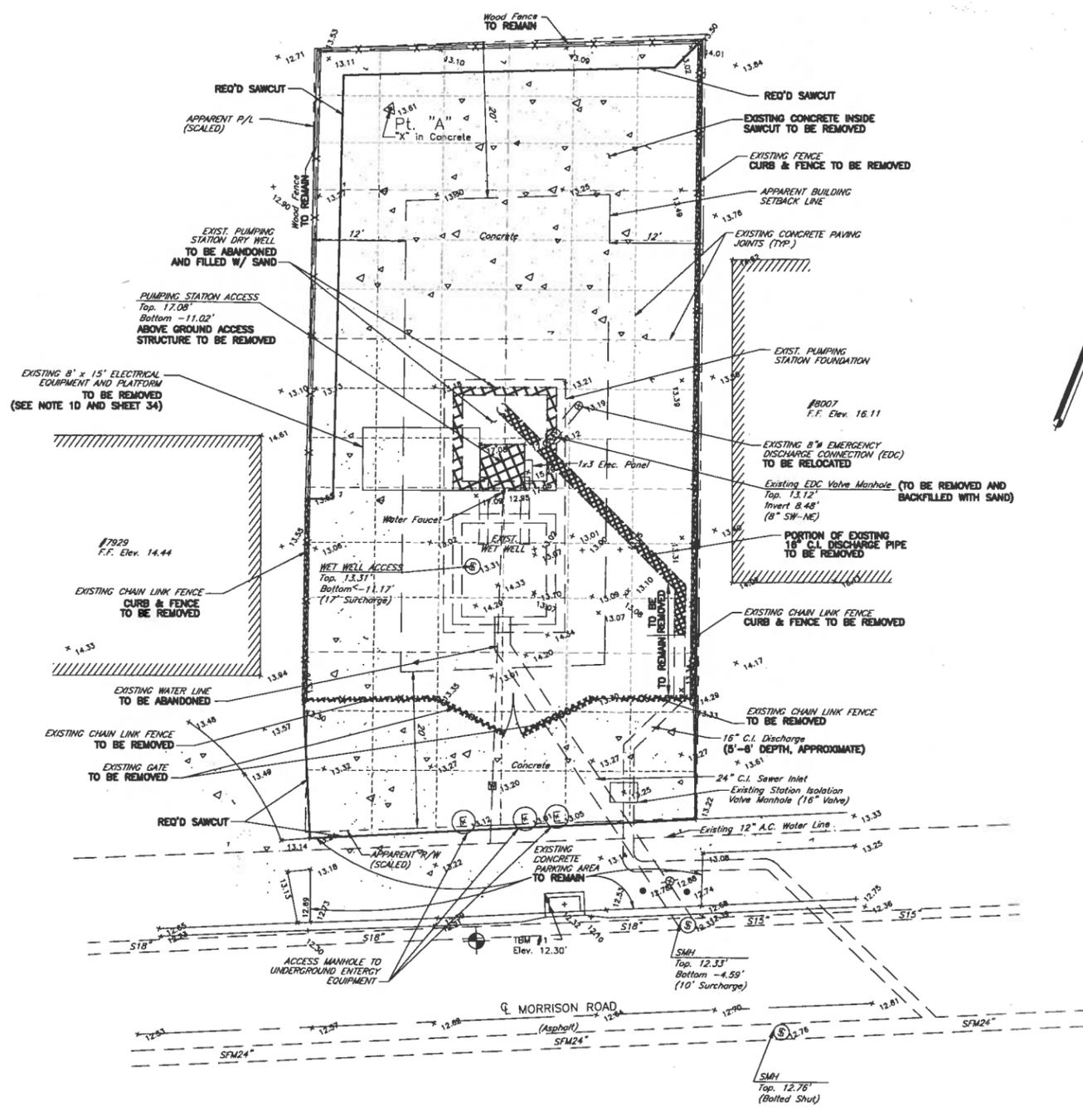
A B C D E F G H J K L M

BUILDING SETBACK REQUIREMENTS

ZONING CLASSIFICATION: RS-2
 FRONT: 20 FT
 REAR: 20 FT
 SIDE: 12 FT

LEGEND

- ☼ Light Pole
- ⚡ Power Pole
- ← Guy Anchor
- ⊕ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Water Manhole
- ⊕ Station Tower
- △ Survey Baseline Point
- ⊕ Sign
- ⊕ Water Meter
- ⊕ Fire Hydrant
- ⊕ 36" Grate (Electrical Manhole)
- ⊕ Catch Basin
- ⊕ Bollard
- + 8.00 Elevation Shot
- x — x — x — Existing Fence
- OHE — Overhead Power Line
- SS — SS — SS — Sanitary Sewer Line
- ⊕ TBM #1 - WEST BOLT ON CATCH BASIN SET, ELEV. = 12.30' - CAIRO DATUM.



Survey Baseline Location Detail
 N.T.S.

REFERENCES:

GOTCH FIELD BOOK 274.

NOTES:

1. DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT.
2. HORIZONTAL COORDINATES SHOWN ARE LOUISIANA LAMBERT SOUTH ZONE GRID SYSTEM COORDINATES BASED ON NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS) PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 & PROCESSED ON 7/9/2009.
3. VERTICAL DATUM IS CAIRO DATUM ADJUSTED FROM NAVD83 DATUM OBTAINED FROM OPUS PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 AND PROCESSED ON 7/9/2009.
4. TBM #1 - WEST BOLT ON CATCH BASIN SET, ELEV. = 12.30' CAIRO DATUM.
5. TOPOGRAPHIC SURVEY SITE LOCATED IN FLOOD ZONE A4 BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 225203-0115E, REVISED 3/1/84.
6. SEWER MANHOLES WERE SURCHARGED AND THE SURVEY CREW WAS UNABLE TO OBTAIN ALL INVERT ELEVATIONS OR SIZES OF PIPES ENTERING OR EXITING THE STRUCTURE.
7. HIGH WATER MARK ELEV. 18.60' CAIRO DATUM, OBSERVED ON BUILDING # 7929 MORRISON ROAD.
8. BASE FLOOD ELEVATION (B.F.E.) = CAIRO DATUM ELEV. 16.13 CAIRO DATUM BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DUFRENE SURVEY AND ENGINEERING, INC. DATED JANUARY, 2010.
9. 500 YEAR FLOOD ELEVATION = ELEV. 22.73 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
10. SUPPORT PILING FOR ELEVATED PLATFORM SHALL BE REMOVED.



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REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

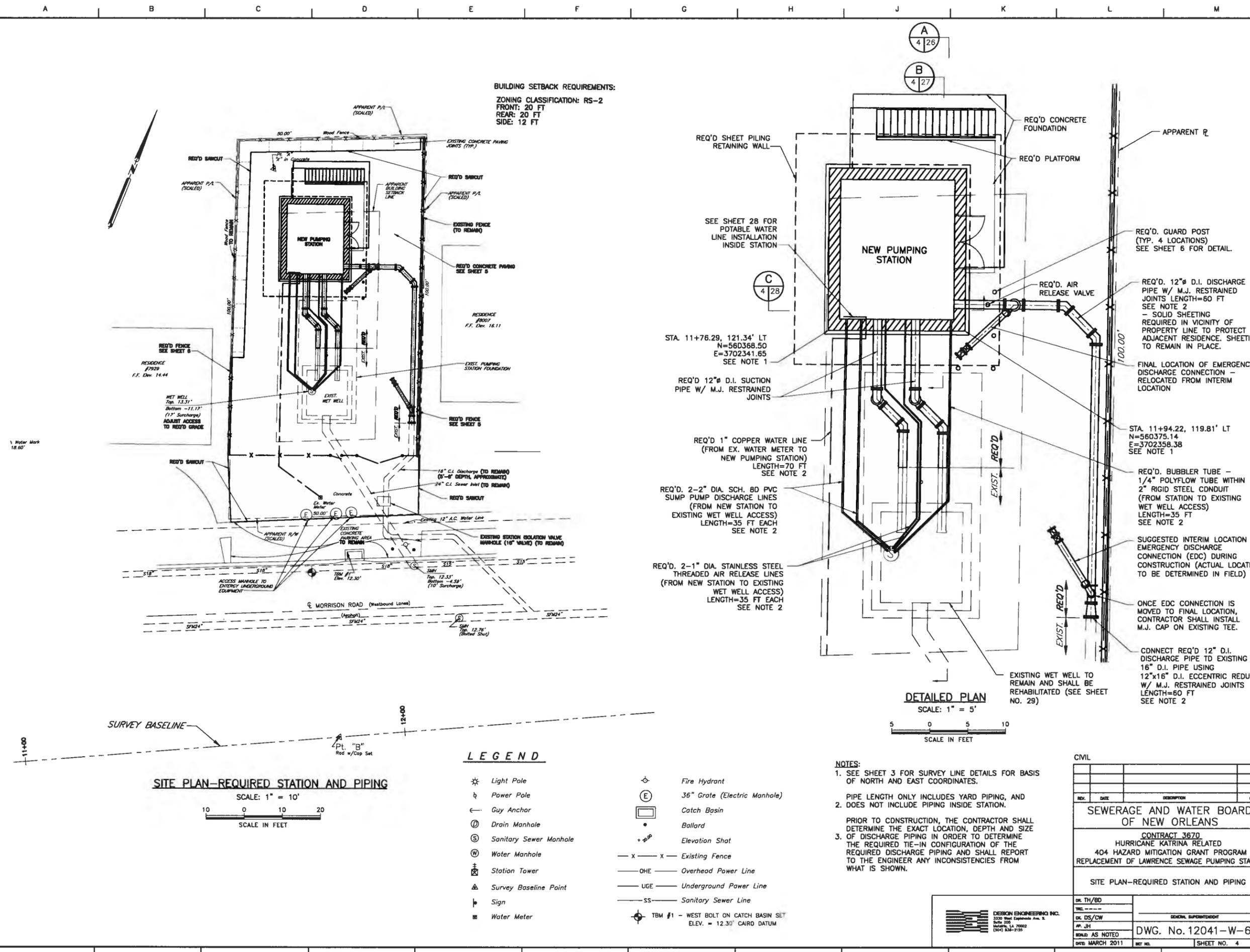
CONTRACT 3670
 HURRICANE KATRINA RELATED
 404 HAZARD MITIGATION GRANT PROGRAM
 REPLACEMENT OF LAWRENCE SEWAGE PUMPING STATION

SITE PLAN - EXISTING CONDITIONS AND DEMOLITION PLAN

DR. TH/BD	
CHK. DS/CW	
AP. JH	
SCALE AS NOTED	DWG. No. 12041-W-63
DATE: MARCH 2011	SHEET NO. 3

DESIGN ENGINEERING INC.
 3330 West Corporate Ave. E.
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 Metairie, LA 70002
 (504) 885-2155

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BUILDING SETBACK REQUIREMENTS:
ZONING CLASSIFICATION: RS-2
 FRONT: 20 FT
 REAR: 20 FT
 SIDE: 12 FT

SITE PLAN-REQUIRED STATION AND PIPING

SCALE: 1" = 10'
 SCALE IN FEET

LEGEND

- ☼ Light Pole
- ⚡ Power Pole
- ⊕ Guy Anchor
- ⓪ Drain Manhole
- Ⓢ Sanitary Sewer Manhole
- Ⓜ Water Manhole
- ⊠ Station Tower
- ⚠ Survey Baseline Point
- Ⓜ Sign
- Ⓜ Water Meter
- ⊕ Fire Hydrant
- Ⓢ 36" Grate (Electric Manhole)
- Ⓜ Catch Basin
- Ballard
- + Elevation Shot
- - - Existing Fence
- - - Overhead Power Line
- - - Underground Power Line
- - - Sanitary Sewer Line
- ⊕ TBM #1 - WEST BOLT ON CATCH BASIN SET
ELEV. = 12.30' CAIRO DATUM

DETAILED PLAN
 SCALE: 1" = 5'

SCALE IN FEET

NOTES:

- SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF NORTH AND EAST COORDINATES.
- PIPE LENGTH ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, DEPTH AND SIZE OF DISCHARGE PIPING IN ORDER TO DETERMINE THE REQUIRED TIE-IN CONFIGURATION OF THE REQUIRED DISCHARGE PIPING AND SHALL REPORT TO THE ENGINEER ANY INCONSISTENCIES FROM WHAT IS SHOWN.

CIVIL

REV.	DATE	DESCRIPTION	BY

**SEWERAGE AND WATER BOARD
OF NEW ORLEANS**

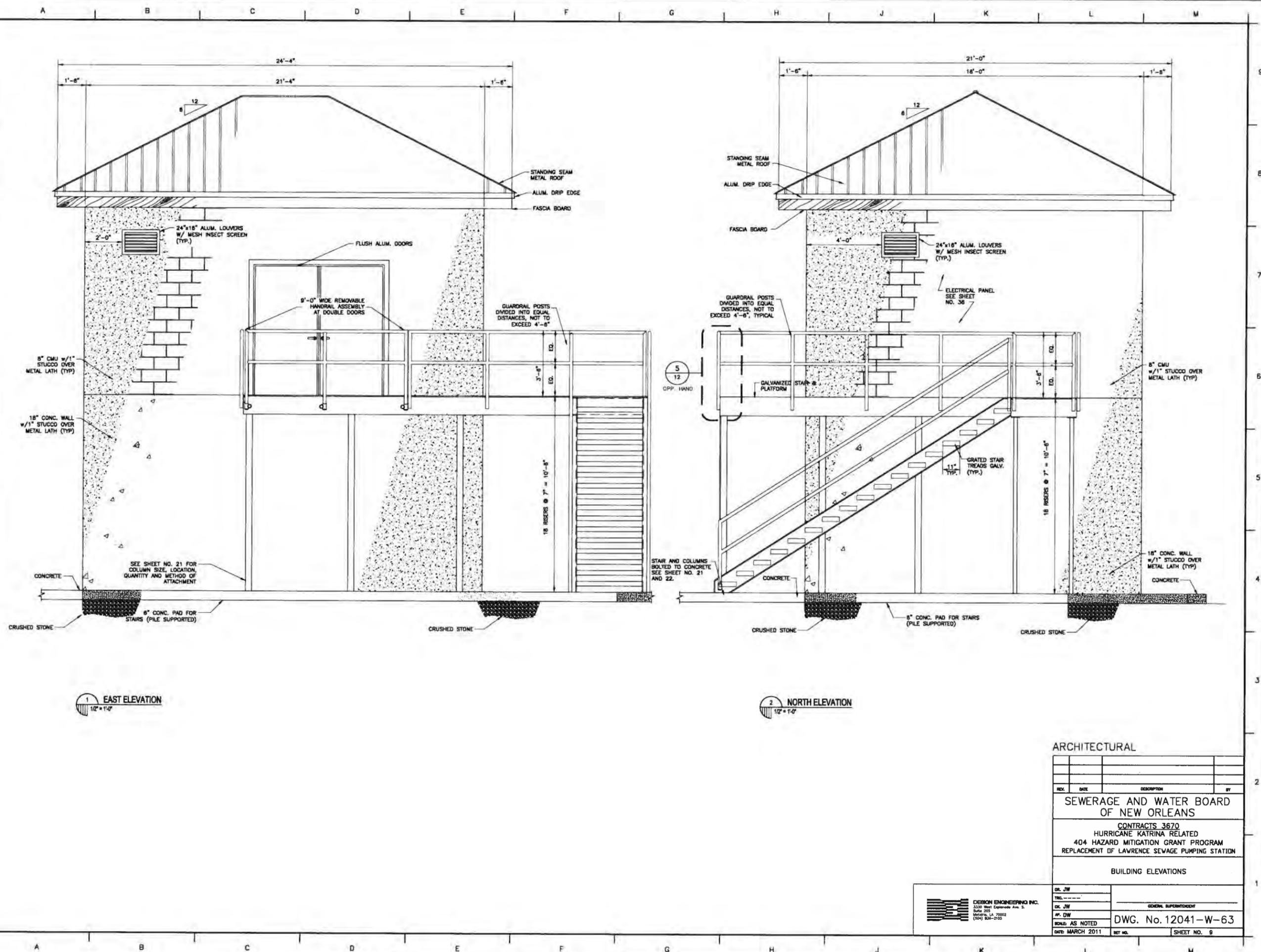
**CONTRACT 3670
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF LAWRENCE SEWAGE PUMPING STATION**

SITE PLAN-REQUIRED STATION AND PIPING

DR. TH/BD	
CHK. DS/CW	
APP. JH	
BUILD. AS NOTED	DWG. No. 12041-W-63
DATE MARCH 2011	SHEET NO. 4

DESIGN ENGINEERING INC.
 3330 West Esplanade, Suite 2
 Metairie, LA 70002
 (504) 835-2155

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1 EAST ELEVATION
1/2" = 1'-0"

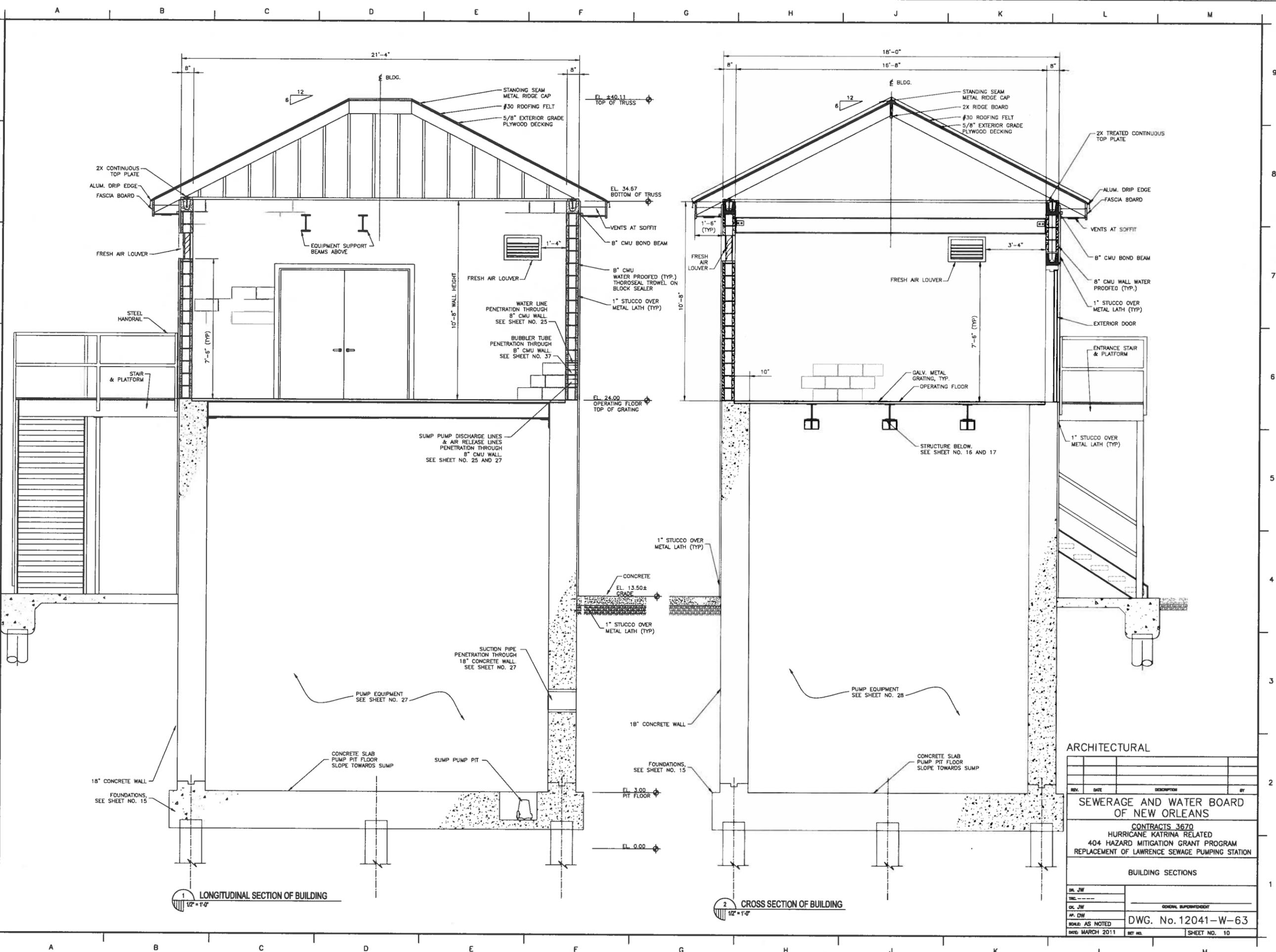
2 NORTH ELEVATION
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACTS 3670 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAWRENCE SEWAGE PUMPING STATION			
BUILDING ELEVATIONS			
DR. JW			
TRD. ---			
DC. JW			
AP. DW			
SCALE: AS NOTED		DWG. No. 12041-W-93	
DATE: MARCH 2011	SET NO.	SHEET NO. 9	

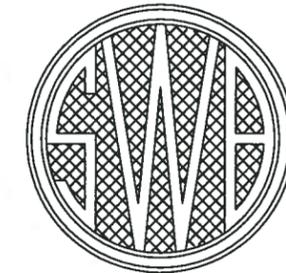
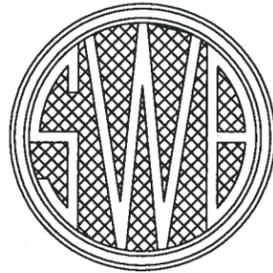
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REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACTS 3670 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF LAWRENCE SEWAGE PUMPING STATION			
BUILDING SECTIONS			
DR. JW			
TRE. ---			
CK. JW			
AP. DW			
SCALE: AS NOTED	DWG. No. 12041-W-63		
DATE: MARCH 2011	SET NO.	SHEET NO. 10	

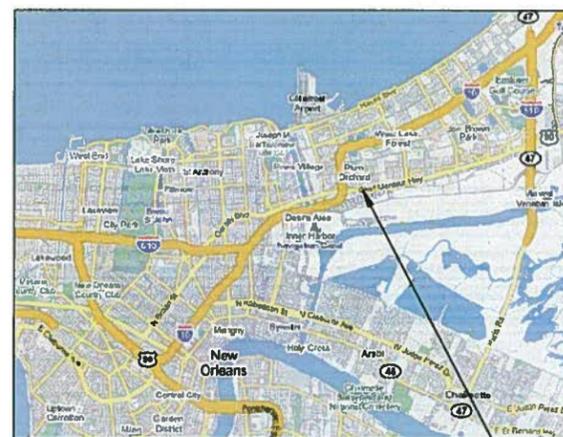
SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3667 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION

DRAWING INDEX

SHEET No.	DRAWING No.	Discipline	TITLE	SHEET No.	DRAWING No.	Discipline	TITLE
1	12038-W-63	GENERAL	TITLE SHEET	27	12038-W-63	MECHANICAL	LONGITUDINAL SECTION
2	12038-W-63	GENERAL	LOCATION MAP/GENERAL NOTES	28	12038-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND MISCELLANEOUS DETAILS
3	12038-W-63	CIVIL	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION	29	12038-W-63	MECHANICAL	REHABILITATION & DETAILS FOR WET WELL
4	12038-W-63	CIVIL	SITE PLAN - REQUIRED STATION AND PIPING				
5	12038-W-63	CIVIL	SITE PAVING AND FENCING PLAN	30	12038-W-63	--	REFERENCE DRAWING
5A	12038-W-63	CIVIL	FENCING DETAILS	31	12038-W-63	--	REFERENCE DRAWING
6	12038-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	32	12038-W-63	--	REFERENCE DRAWING
7	12038-W-63	CIVIL	SEWER NOTES	33	5031-P1	ELECTRICAL	ELECTRICAL - REQUIRED SITE PLAN
8	12038-W-63	ARCHITECTURAL	FLOOR FRAMING AND ROOF PLANS	34	5031-P2	ELECTRICAL	ELEMENTARY, PNEUMATIC, CONTROL AND ONE LINE DIAGRAMS
9	12038-W-63	ARCHITECTURAL	BUILDING ELEVATIONS				
10	12038-W-63	ARCHITECTURAL	BUILDING SECTIONS	35	5031-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
11	12038-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS				
12	12038-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS	36	5031-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
13	12038-W-63	STRUCTURAL	BORING LOGS				
14	12038-W-63	STRUCTURAL	STRUCTURAL NOTES	37	5031-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
15	12038-W-63	STRUCTURAL	FOUNDATION PLAN AND DETAILS				
16	12038-W-63	STRUCTURAL	OPERATING FLOOR FRAMING AND GRATING PLAN	38	5031-P6	ELECTRICAL	SCADA PANEL RISER DIAGRAM AND DETAILS
17	12038-W-63	STRUCTURAL	CEILING LEVEL FRAMING AND ROOFING PLAN				
18	12038-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1				
19	12038-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 2				
20	12038-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN				
21	12038-W-63	STRUCTURAL	STAIR SECTION AND DETAILS				
22	12038-W-63	STRUCTURAL	LADDER DETAILS				
23	12038-W-63	STRUCTURAL	ROOF SECTION AND DETAILS				
24	12038-W-63	STRUCTURAL	PPC PILE AND MISCELLANEOUS DETAILS				
25	12038-W-63	MECHANICAL	MECHANICAL EQUIPMENT LAYOUT PLAN				
26	12038-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION AND WET WELL				



VICINITY MAP
AREA MAP NO SCALE

PLUM ORCHARD S.L.S.

FINAL PLANS

THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
5-10-11

FINAL SUBMITTAL

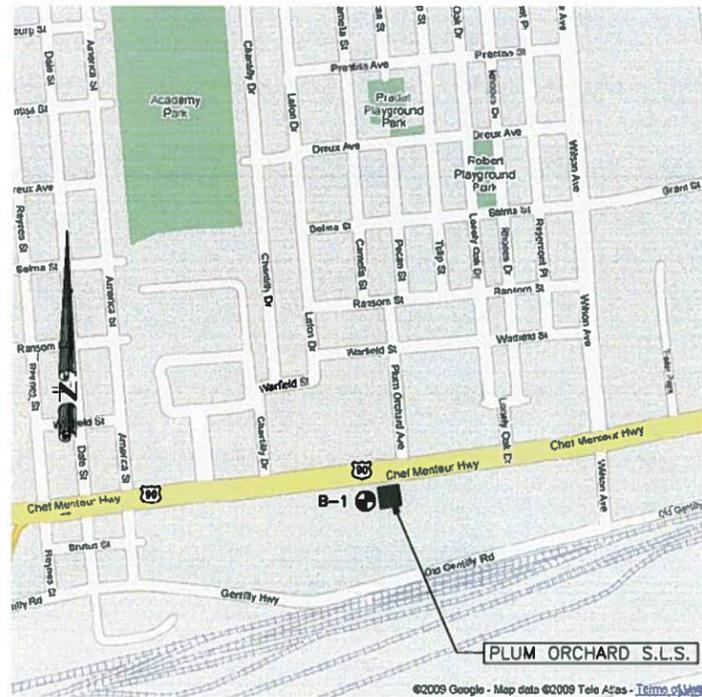
MAY 2011
NOT FOR CONSTRUCTION



REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3667 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION			
TITLE SHEET			



DR. TH/BD	
TWC	
CL OS/CW	GENERAL SUPERVISOR
AP. JH	DWG. No. 12038-W-63
SCALE NONE	
DATE: MAY 2011	SHEET NO. 1



7300 CHEF MENTEUR HIGHWAY
 LOCATION MAP - PLUM ORCHARD S.L.S.
 AREA MAP NO SCALE

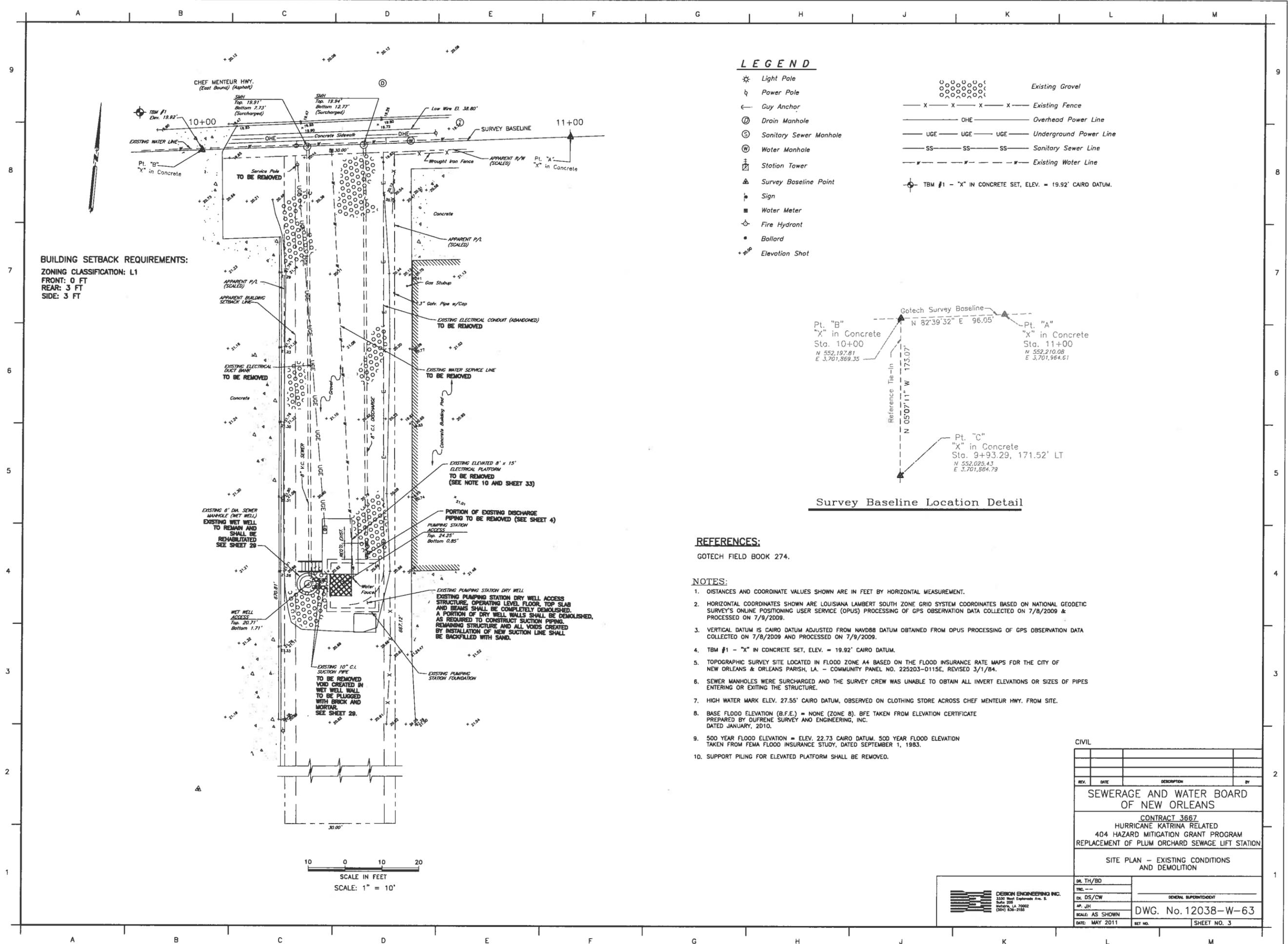
GENERAL NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS IN ORDER TO OBTAIN A FULL UNDERSTANDING OF WORK TO BE DONE.
2. PRIOR TO ANY DEMOLITION, CLEARING AND OR EXCAVATION (IF NEEDED), THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BY CALLING LOUISIANA ONE CALL AT 1-800-272-3020.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED TO EXISTING STRUCTURES AND UTILITIES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE SWBNO.
4. CONTRACTOR SHALL CONTACT PROJECT MANAGER'S OFFICE IMMEDIATELY CONCERNING ANY CONFLICTS THAT ARISE DURING THE COURSE OF CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY BY-PASS PUMPING AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 13 OF THE SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOTIFY THE SWBNO IF THEY PLAN TO WORK ON A SWBNO HOLIDAY OR A WEEKEND DAY. THE SWBNO HAS THE FINAL AUTHORIZATION ON WORK PERFORMED THAT IS NOT ON REGULAR WORK DAYS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
8. ALL WORK SHALL CONFORM TO THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS, THE SEWERAGE AND WATER BOARD OF NEW ORLEANS(SWBNO), LOUISIANA DEPARTMENT OF PUBLIC HOSPITALS (DHH) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF DIRT AND DEBRIS FROM STREETS AND ROADWAYS AND PROJECT SITE GENERATED BY CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ADJACENT PAVEMENT AND FENCING WHICH RESULTS FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE SWBNO.
11. CONTRACTOR SHALL CLEAN AND PAINT ALL EXPOSED SURFACES OF MECHANICAL EQUIPMENT, PIPING, PIPE SUPPORTS, AND OTHER ELEMENTS IN ACCORDANCE WITH SECTION 11 OF THE SPECIFICATIONS.
12. CONTRACTOR SHALL VERIFY PUMP STATION DIMENSIONS WITH EQUIPMENT MANUFACTURER'S SHOP DRAWINGS TO ENSURE PROPER FIT WITHIN THE STRUCTURE.
13. CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND IMPROVEMENTS FROM DAMAGE AND REPLACE ANY PORTIONS DAMAGED THROUGH HIS OPERATION AT HIS OWN EXPENSE. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE SWBNO.
14. CONTRACTOR SHALL RE-GRADE ALL AREAS ALTERED BY CONSTRUCTION ACTIVITIES TO PROVIDE POSITIVE DRAINAGE. ALL WORK SHALL BE IN A MANNER ACCEPTABLE TO THE SWBNO.
15. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE TO THOSE AFFECTED BY CONSTRUCTION ACTIVITIES THAT MAY DISRUPT WATER, SEWER, OR OTHER UTILITY SERVICES. UTILITY SERVICES SHALL BE PROMPTLY REPAIRED AND SHALL NOT REMAIN OUT OF SERVICE OVERNIGHT.
16. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATION TO ENSURE MINIMAL INCONVENIENCE TO THE GENERAL PUBLIC, ADJACENT PROPERTY OWNERS, AND BUSINESSES. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL PROPERTIES AND TRAFFIC FLOW IN ROADWAYS AT ALL TIMES.
17. ALL GRASS AREAS ALTERED SHALL BE SEED, FERTILIZED, WATERED, AND MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL WATER DAILY FROM SEEDING UNTIL 2 WEEKS AFTER GERMINATION.
18. THE CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES:
 SEWERAGE AND WATER BOARD OF NEW ORLEANS
 BKI: DENNIS GARRARD 504-486-5901
 LOUISIANA ONE CALL - 1-800-272-3020
19. ALL MISCELLANEOUS METAL WORK, INCLUDING PIPE SUPPORTS AND BRACKETS TO BE INSTALLED WITHIN THE WET WELL SHALL BE MANUFACTURED ENTIRELY OF TYPE 316 STAINLESS STEEL. LIKEWISE, ALL FASTENERS, INCLUDING ANCHOR BOLTS INSTALLED WITHIN THE WET WELL SHALL BE MANUFACTURED OF STAINLESS STEEL. THREADS OF ALL STAINLESS STEEL FASTENERS SHALL BE TREATED WITH AN ANTI-SEIZE COMPOUND FORMULATED FOR USE WITH STAINLESS STEEL, SUCH AS "PURE NICKEL SPECIAL ANTI SEIZE COMPOUND", MANUFACTURED BY "NEVER-SEEZ", OR EQUAL.
20. COMPLETED INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS, LOCAL CODES, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
21. ALL ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED ACCORDING TO SECTION 15 OF THE SPECIFICATIONS.
22. NAMEPLATES CONTAINING PERTINENT DATA SHALL BE INSTALLED ON ALL THE EQUIPMENT THAT IS INSTALLED BY THE CONTRACTOR.
23. TESTING SHALL BE PERFORMED BY QUALIFIED TESTING AGENCIES AND FIELD SERVICE COMPANIES AS NECESSARY TO AUGMENT THE CONTRACTOR'S OWN CAPABILITIES. TESTING AND REPORTING METHODS SHALL COMPLY WITH APPLICABLE CITY OF NEW ORLEANS STANDARDS. ALL TEST RESULTS SHALL BE PUBLISHED ON THE CONTRACTOR'S OR TESTING COMPANY'S LETTERHEAD OR TEST FORMS BEARING THE LEGAL NAME AND ADDRESS OF THE COMPANY.
24. THE NEW STRUCTURES SHOWN ARE TO BE TIED INTO EXISTING PIPING. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS THAT RELATE TO NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OR CONSTRUCTION.

DESIGN ENGINEERING INC.
 3330 West Calumet Ave. 2
 Suite 203
 Metairie, LA 70002
 (504) 834-2100

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3667 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION			
LOCATION MAP/GENERAL NOTES			
DR. TH/BD			
TITLE			
DR. DS/CW			
DR. JH			
SCALE: NONE		DWG. No. 12038-W-63	
DATE: MAY 2011		SHEET NO. 2	

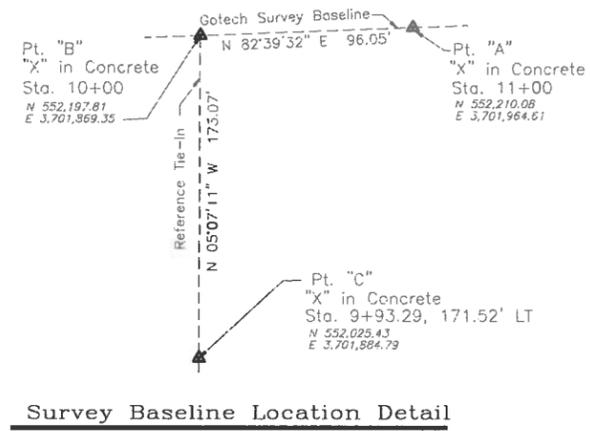
PRINTED May 04, 2011 - 4:16pm FILENAME - J:\6005.1-FINAL\Contract 3667 - Plum Orchard SPS\SH1 3_P_0_EXISTE.dwg



BUILDING SETBACK REQUIREMENTS:
 ZONING CLASSIFICATION: L1
 FRONT: 0 FT
 REAR: 3 FT
 SIDE: 3 FT

LEGEND

- * Light Pole
- ⚡ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Water Manhole
- ⊙ Station Tower
- ⚠ Survey Baseline Point
- ⚡ Sign
- ⊙ Water Meter
- ⊙ Fire Hydrant
- Bollard
- +⁸⁰ Elevation Shot
- ⊙ Existing Gravel
- X X X X Existing Fence
- OHE — Overhead Power Line
- UGE — UGE — UGE — Underground Power Line
- SS — SS — SS — Sanitary Sewer Line
- — — Existing Water Line
- ⊙ TBM #1 - "X" IN CONCRETE SET, ELEV. = 19.92' CAIRO DATUM.



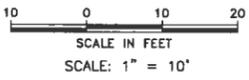
Survey Baseline Location Detail

REFERENCES:

GOTECH FIELD BOOK 274.

NOTES:

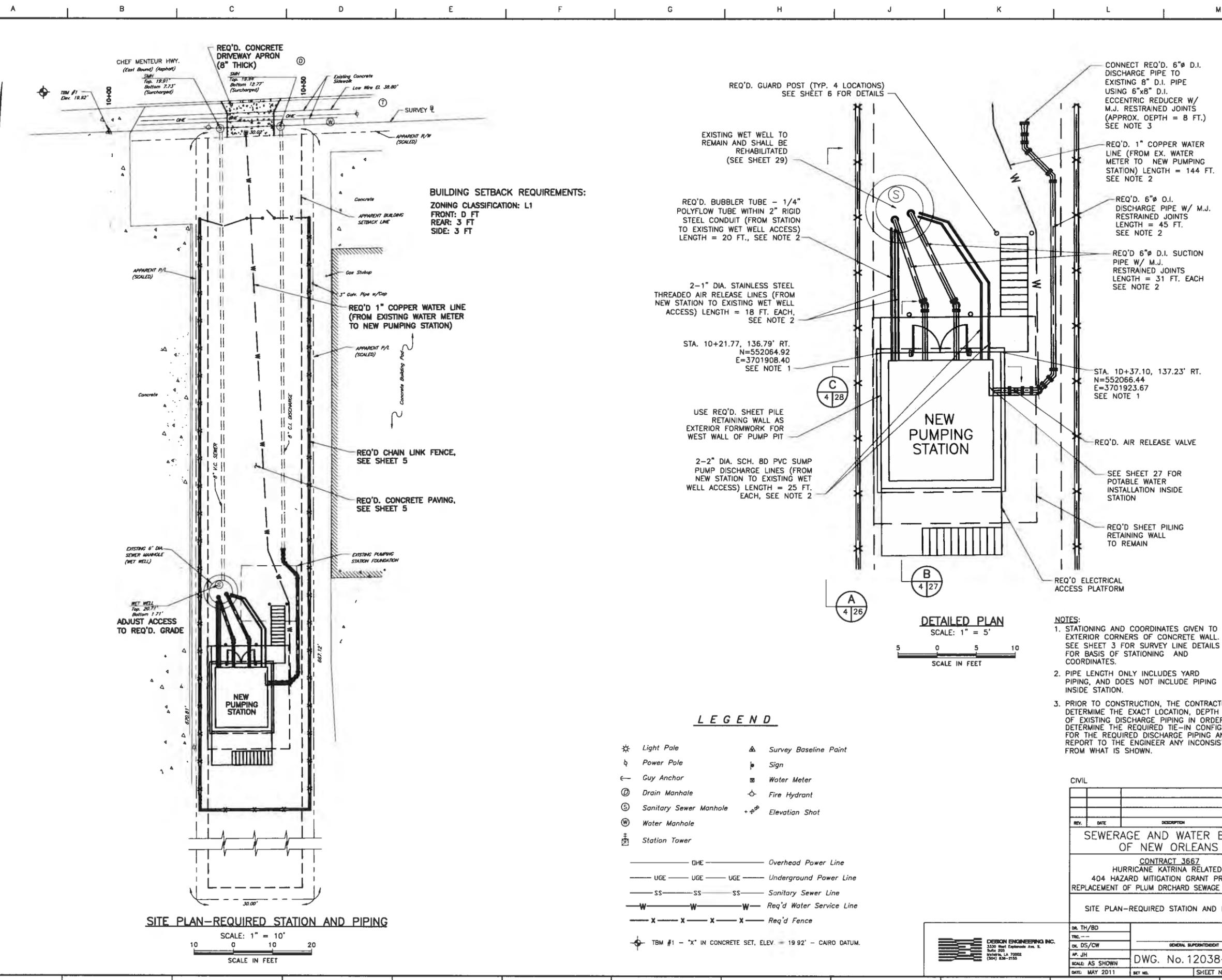
1. DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT.
2. HORIZONTAL COORDINATES SHOWN ARE LOUISIANA LAMBERT SOUTH ZONE GRID SYSTEM COORDINATES BASED ON NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS) PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 & PROCESSED ON 7/9/2009.
3. VERTICAL DATUM IS CAIRO DATUM ADJUSTED FROM NAVD88 DATUM OBTAINED FROM OPUS PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 AND PROCESSED ON 7/9/2009.
4. TBM #1 - "X" IN CONCRETE SET, ELEV. = 19.92' CAIRO DATUM.
5. TOPOGRAPHIC SURVEY SITE LOCATED IN FLOOD ZONE A4 BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 225203-0115E, REVISED 3/1/84.
6. SEWER MANHOLES WERE SURCHARGED AND THE SURVEY CREW WAS UNABLE TO OBTAIN ALL INVERT ELEVATIONS OR SIZES OF PIPES ENTERING OR EXITING THE STRUCTURE.
7. HIGH WATER MARK ELEV. 27.55' CAIRO DATUM, OBSERVED ON CLOTHING STORE ACROSS CHEF MENTEUR HWY. FROM SITE.
8. BASE FLOOD ELEVATION (B.F.E.) = NONE (ZONE B). BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DUFRENE SURVEY AND ENGINEERING, INC. DATED JANUARY, 2010.
9. 500 YEAR FLOOD ELEVATION = ELEV. 22.73 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
10. SUPPORT PILING FOR ELEVATED PLATFORM SHALL BE REMOVED.



CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3667 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION			
SITE PLAN - EXISTING CONDITIONS AND DEMOLITION			
DR. TH/BD			
TWC			
CK. DS/CW	GENERAL SUPERVISOR		
AP. JH	DWG. No. 12038-W-63		
SCALE: AS SHOWN	DATE: MAY 2011	SET NO.	SHEET NO. 3

DESIGN ENGINEERING INC.
 3330 West Esplanade Ave. S.
 Suite 205
 Metairie, LA 70002
 (504) 885-7100

PRINTED May 04, 2011 - 4:16pm FILENAME = J:\6005.1-FINAL\Contract 3667 - Plum Orchard SPS\SHT 4_P O_REQSITE.dwg



BUILDING SETBACK REQUIREMENTS:
ZONING CLASSIFICATION: L1
FRONT: 0 FT
REAR: 3 FT
SIDE: 3 FT

SITE PLAN-REQUIRED STATION AND PIPING
 SCALE: 1" = 10'
 SCALE IN FEET

DETAILED PLAN
 SCALE: 1" = 5'
 SCALE IN FEET

LEGEND

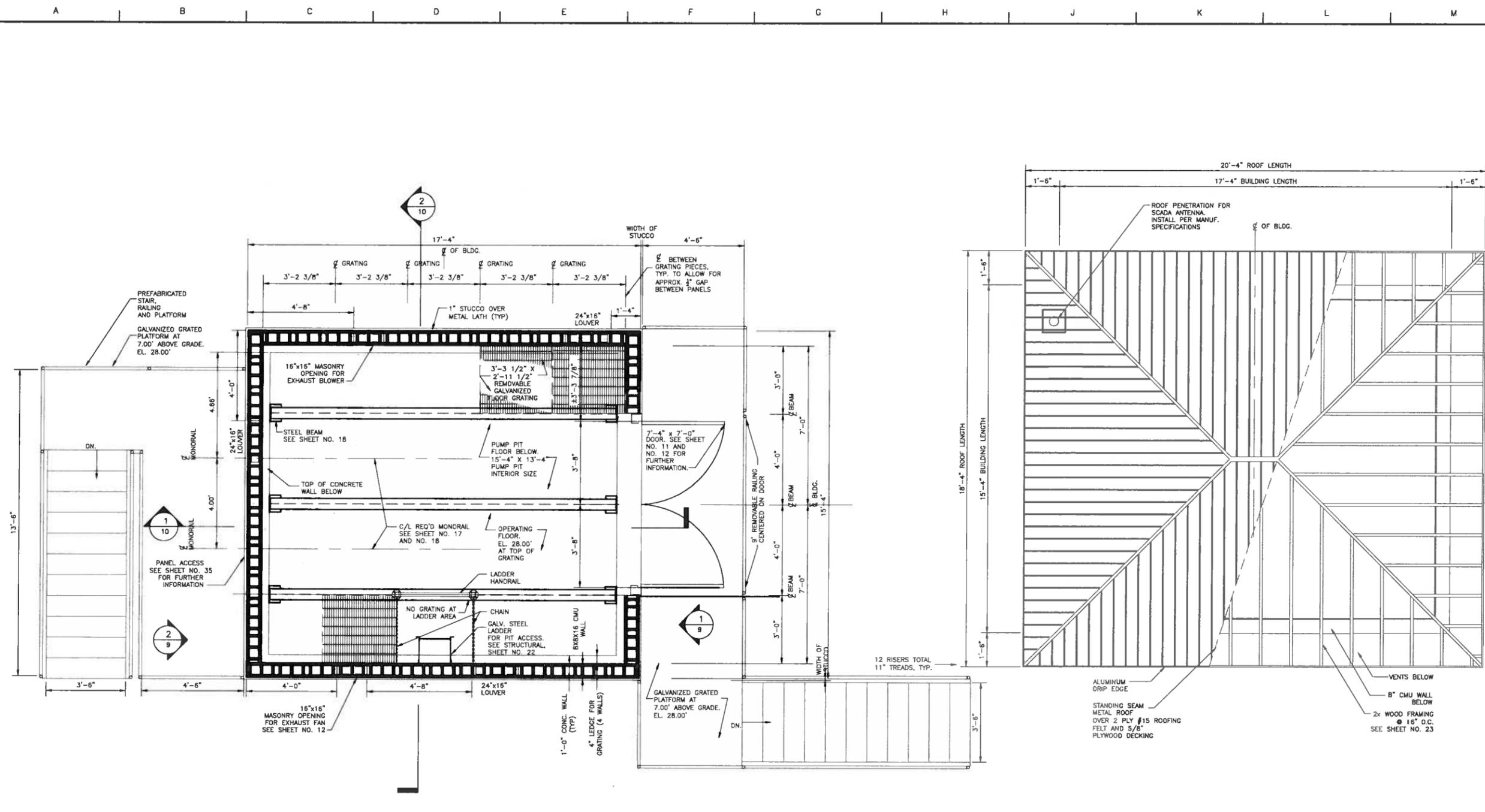
- ☆ Light Pole
- ⊕ Power Pole
- ← Guy Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Water Manhole
- ⊙ Station Tower
- △ Survey Baseline Point
- ⊙ Sign
- ⊙ Water Meter
- ⊙ Fire Hydrant
- ⊙ Elevation Shot
- OHE — Overhead Power Line
- UGE — Underground Power Line
- SS — Sanitary Sewer Line
- W — Req'd Water Service Line
- X — Req'd Fence
- ⊙ TBM #1 - "X" IN CONCRETE SET, ELEV. = 19.92' - CAIRO DATUM.

- NOTES:**
- STATIONING AND COORDINATES GIVEN TO EXTERIOR CORNERS OF CONCRETE WALL. SEE SHEET 3 FOR SURVEY LINE DETAILS FOR BASIS OF STATIONING AND COORDINATES.
 - PIPE LENGTH ONLY INCLUDES YARD PIPING, AND DOES NOT INCLUDE PIPING INSIDE STATION.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, DEPTH AND SIZE OF EXISTING DISCHARGE PIPING IN ORDER TO DETERMINE THE REQUIRED TIE-IN CONFIGURATION FOR THE REQUIRED DISCHARGE PIPING AND SHALL REPORT TO THE ENGINEER ANY INCONSISTENCIES FROM WHAT IS SHOWN.

CIVIL			
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3667 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF PLUM DRCHARD SEWAGE LIFT STATION			
SITE PLAN-REQUIRED STATION AND PIPING			
DR. TH/BD			
DR. DS/CW			
AP. JH			
SCALE: AS SHOWN			
DATE: MAY 2011	SET NO.	DWG. No. 12038-W-63	SHEET NO. 4



PRINTED May 04, 2011 - 3:34pm FILENAME - j:\6005.1-FINAL\Contract 3667 - Plum Orchard SPS\ARCHITECTURAL\SH18_P_O_ARCH_FRAME.dwg



1 OPERATING FLOOR / ARCHITECTURAL FRAMING PLAN
1/2" = 1'-0"

2 COMBINED ROOF AND FRAMING PLAN
1/2" = 1'-0"

NOTE: REMOVABLE FLOOR GRATING TO BE INSTALLED OVER ENTIRE OPERATING FLOOR EXCEPT AT LADDER ACCESS. TYPICAL GRATING PANELS SIZE VARIES AT THIS PUMP STATION

REV.	DATE	DESCRIPTION	BY

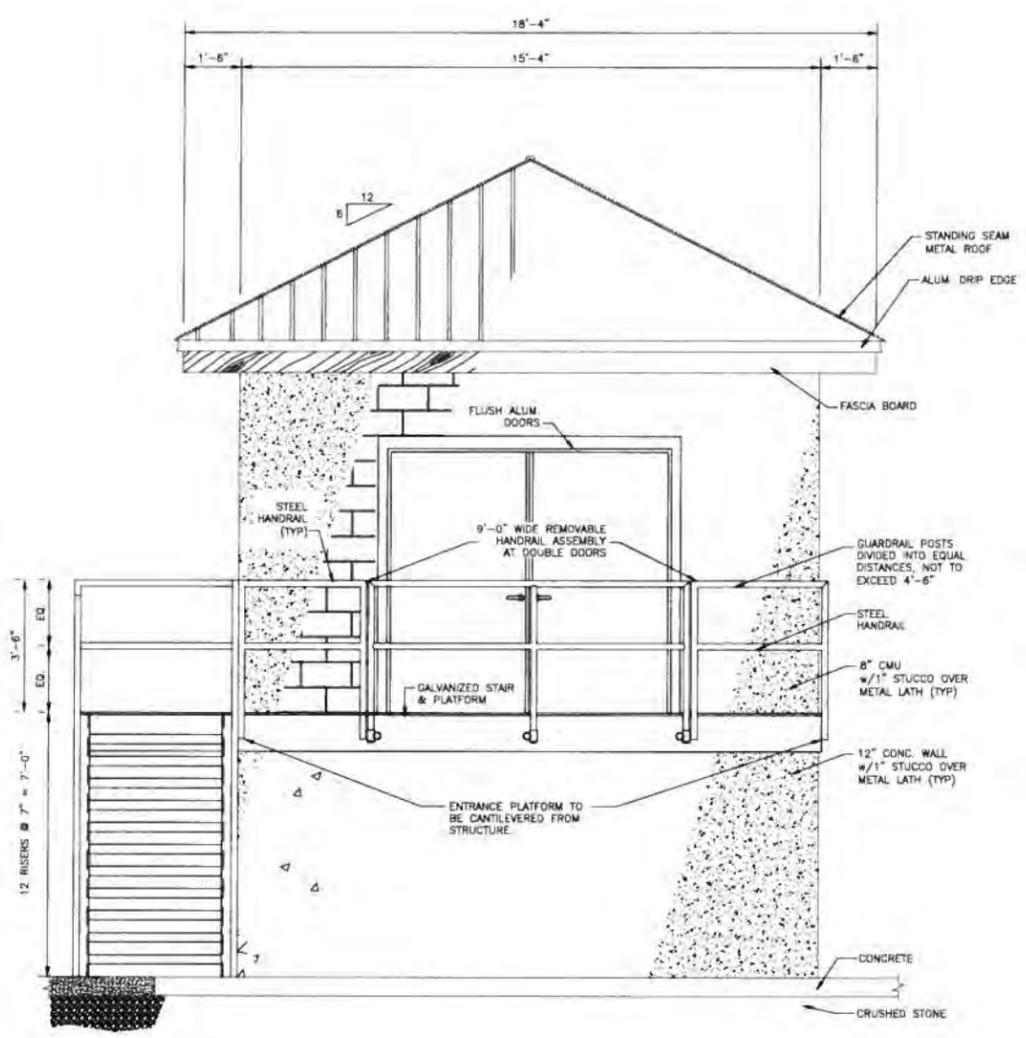
SEWERAGE AND WATER BOARD OF NEW ORLEANS
CONTRACT 3667
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION

FLOOR FRAMING AND ROOF PLANS

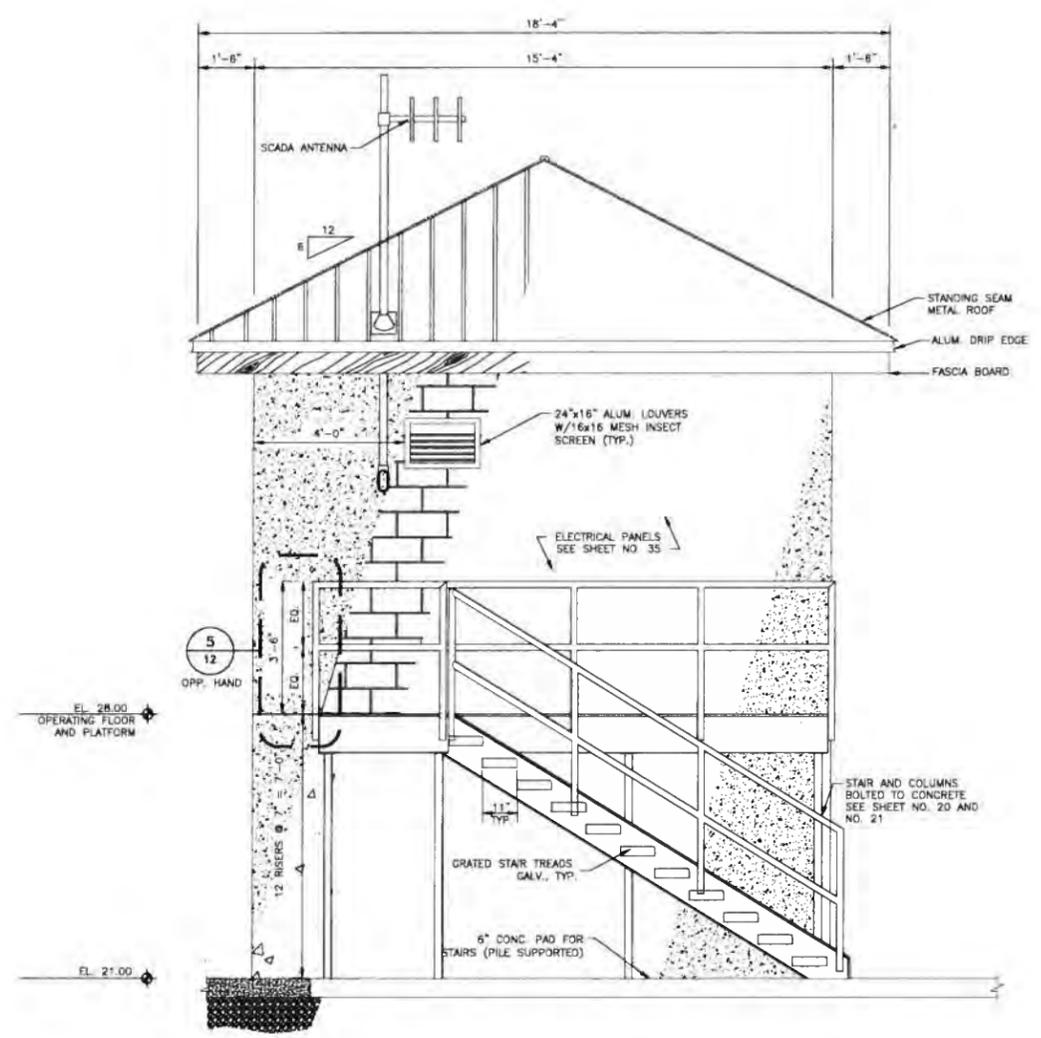
DESIGN ENGINEERING INC.
3330 West Esplanade Ave. E.
Burrhead, LA 70002
(504) 838-2155

DR. JW	GENERAL SUPERINTENDENT
TRC. ---	
CR. DW	
AP. DW	
SCALE: AS NOTED	DWG. No. 12038-W-63
DATE: MAY 2011	SHEET NO. B

PRINTED May 10, 2011 - 8:41am FILENAME - J:\6005.1-FINAL\Contract 3667 - Plum Orchard SPS\ARCHITECTURAL\SH1 9_P_O_ARCH BLDG ELDWG



1 NORTH ELEVATION
1/2" = 1'-0"



2 SOUTH ELEVATION
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD
OF NEW ORLEANS

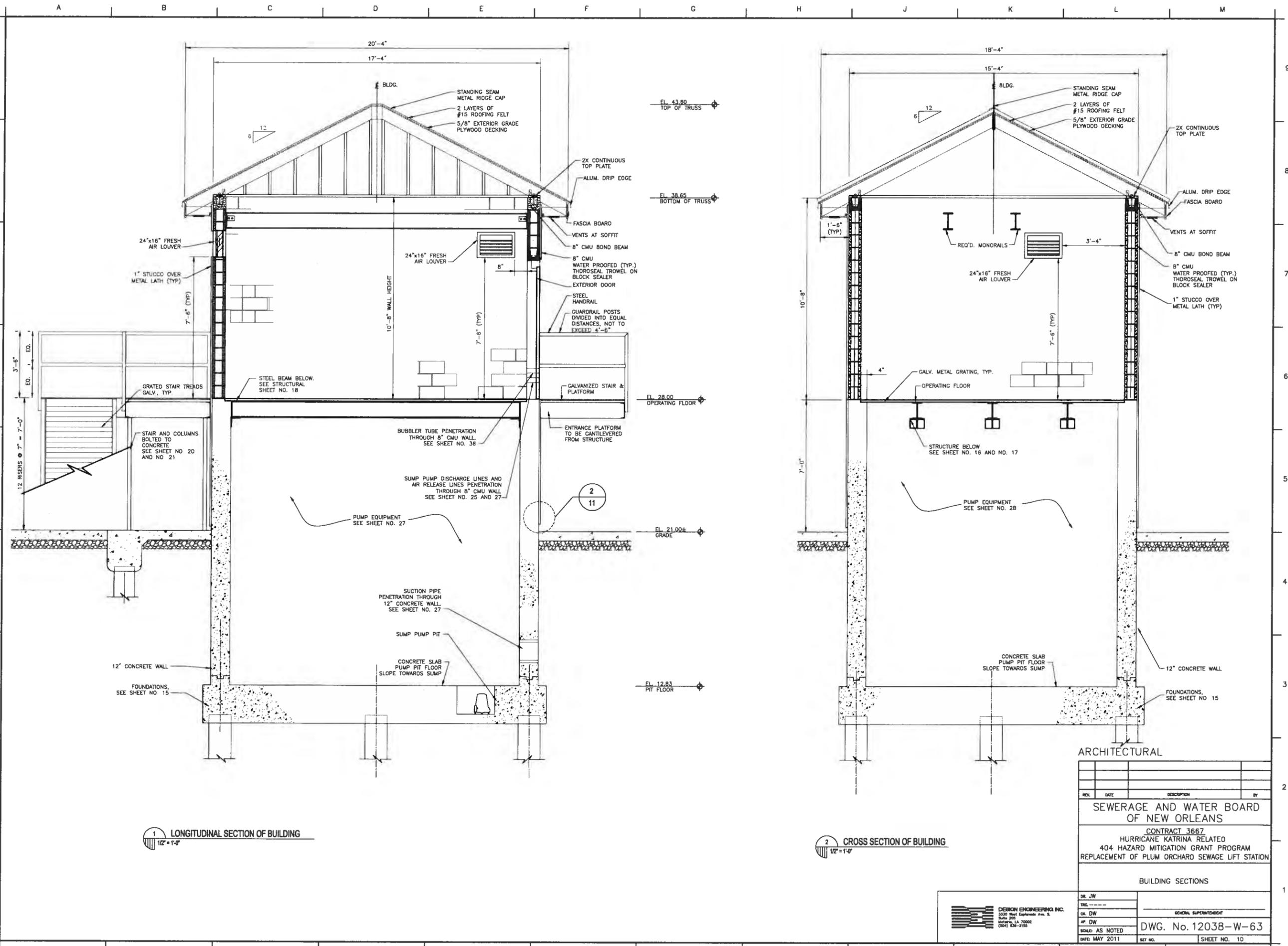
CONTRACT 3667
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION

BUILDING ELEVATIONS

DESIGN ENGINEERING INC.
3330 West Esplanade Ave. #2
Burr Ridge, IL 60521
(815) 436-2155

DR. JW	
DC. DW	
AP. DW	
SCALE: AS NOTED	DWG. No. 12038-W-63
DATE: MAY 2011	SHEET NO. 9

PRINTED May 04, 2011 3:35pm FILENAME - J:\6005.1-FINAL\Contract 3667 - Plum Orchard SPS\ARCHITECTURAL\SH10_P_O_ARCH BLDG SEC.dwg



1 LONGITUDINAL SECTION OF BUILDING
1/2" = 1'-0"

2 CROSS SECTION OF BUILDING
1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY

**SEWERAGE AND WATER BOARD
OF NEW ORLEANS**

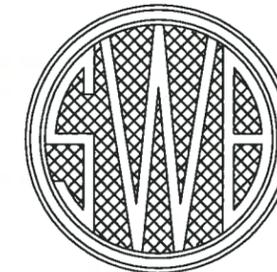
CONTRACT 3667
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF PLUM ORCHARD SEWAGE LIFT STATION

BUILDING SECTIONS

DR. JW	GENERAL SUPERINTENDENT
TRC	
CK. DW	
AP. DW	
SCALE: AS NOTED	DWG. No. 12038-W-63
DATE: MAY 2011	SHEET NO. 10

DESIGN ENGINEERING INC.
3330 West Esplanade, Ave. 5
Suite 201
Baton Rouge, LA 70802
(504) 788-2155

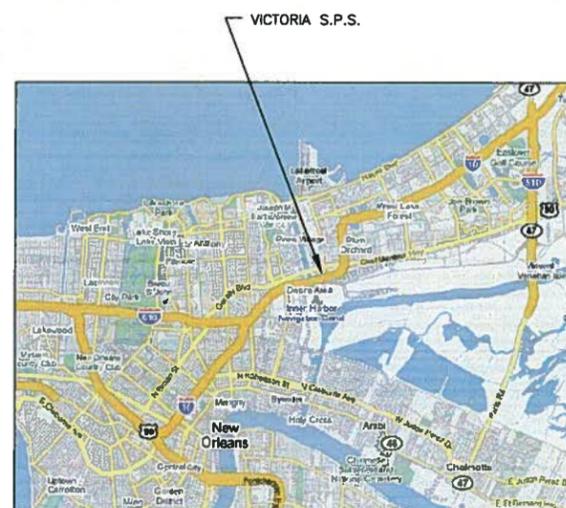
SEWERAGE AND WATER BOARD OF NEW ORLEANS



CONTRACT No. 3668 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION

DRAWING INDEX

SHEET No.	DRAWING No.	Discipline	TITLE	SHEET No.	DRAWING No.	Discipline	TITLE
1	12039-W-63	GENERAL	TITLE SHEET	27	12039-W-63	MECHANICAL	LONGITUDINAL SECTION
2	12039-W-63	GENERAL	LOCATION MAP/GENERAL NOTES	28	12039-W-63	MECHANICAL	PIPING CROSS SECTION THROUGH STATION & MISCELLANEOUS DETAILS
3	12039-W-63	CIVIL	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION	29	12039-W-63	MECHANICAL	REHABILITATION OF DRY WELL FOR WET WELL SERVICE
4	12039-W-63	CIVIL	SITE PLAN - REQUIRED STATION & PIPING	30	12039-W-63	---	REFERENCE DRAWING
5	12039-W-63	CIVIL	SITE PAVING AND FENCING PLAN	31	12039-W-63	---	REFERENCE DRAWING
5A	12039-W-63	CIVIL	FENCING DETAILS	32	5030-P1	ELECTRICAL	ELECTRICAL - REQUIRED SITE PLAN
6	12039-W-63	CIVIL	MISCELLANEOUS SITEWORK DETAILS	33	5030-P2	ELECTRICAL	ELEMENTARY, PNEUMATIC, CONTROL AND ONE LINE DIAGRAMS
7	12039-W-63	CIVIL	SEWER NOTES	34	5030-P3	ELECTRICAL	ELECTRICAL FLOOR PLAN, EXTERIOR WALL ELEVATIONS AND DETAILS
8	12039-W-63	ARCHITECTURAL	FLOOR FRAMING AND ROOF PLANS	35	5030-P4	ELECTRICAL	ELECTRICAL INTERIOR WALL ELEVATIONS AND DETAILS
9	12039-W-63	ARCHITECTURAL	BUILDING ELEVATIONS	36	5030-P5	ELECTRICAL	AUTOMATION CONTROL PANEL FABRICATION AND WIRING
10	12039-W-63	ARCHITECTURAL	BUILDING SECTIONS	37	5030-P6	ELECTRICAL	SCADA PANEL RISER DIAGRAM AND DETAILS
11	12039-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS				
12	12039-W-63	ARCHITECTURAL	ARCHITECTURAL DETAILS				
13	12039-W-63	STRUCTURAL	BORING LOGS				
14	12039-W-63	STRUCTURAL	STRUCTURAL NOTES				
15	12039-W-63	STRUCTURAL	FOUNDATION PLAN AND SECTIONS				
16	12039-W-63	STRUCTURAL	OPERATING FLOOR FRAMING AND GRATING PLAN				
17	12039-W-63	STRUCTURAL	CEILING LEVEL FRAMING AND ROOFING PLAN				
18	12039-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 1				
19	12039-W-63	STRUCTURAL	FRAMING SECTION AND DETAILS - 2				
20	12039-W-63	STRUCTURAL	PLATFORM AND STAIR FRAMING PLAN				
21	12039-W-63	STRUCTURAL	STAIR SECTION AND DETAILS				
22	12039-W-63	STRUCTURAL	LADDER DETAILS				
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VICINITY MAP
AREA MAP NO SCALE

FINAL PLANS

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John Holtgreve, P.E. 16383
PROFESSIONAL ENGINEER LICENSE NO.
4-26-11

FINAL SUBMITTAL

APRIL 2011
NOT FOR CONSTRUCTION

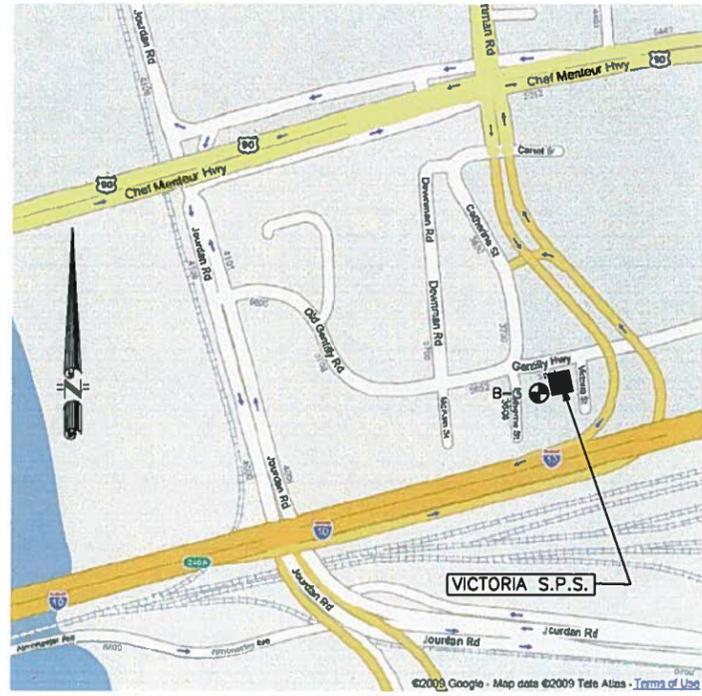


REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3668 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION			
TITLE SHEET			
DR. TH/BD			
DR. DS/CW			
DR. JH			
SOLD: AS SHOWN			
DATE: APRIL 2011	REV. NO.		SHEET NO. 1



DESIGN ENGINEERING INC.
3330 West Esplanade Ave. E.
Suite 200
Metairie, LA 70002
(504) 885-2110

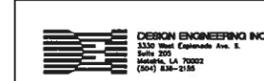
GENERAL SUPERVISOR
DWG. No. 12039-W-63



3620 VICTORIA STREET
 LOCATION MAP - VICTORIA S.P.S.
 AREA MAP NO SCALE

GENERAL NOTES:

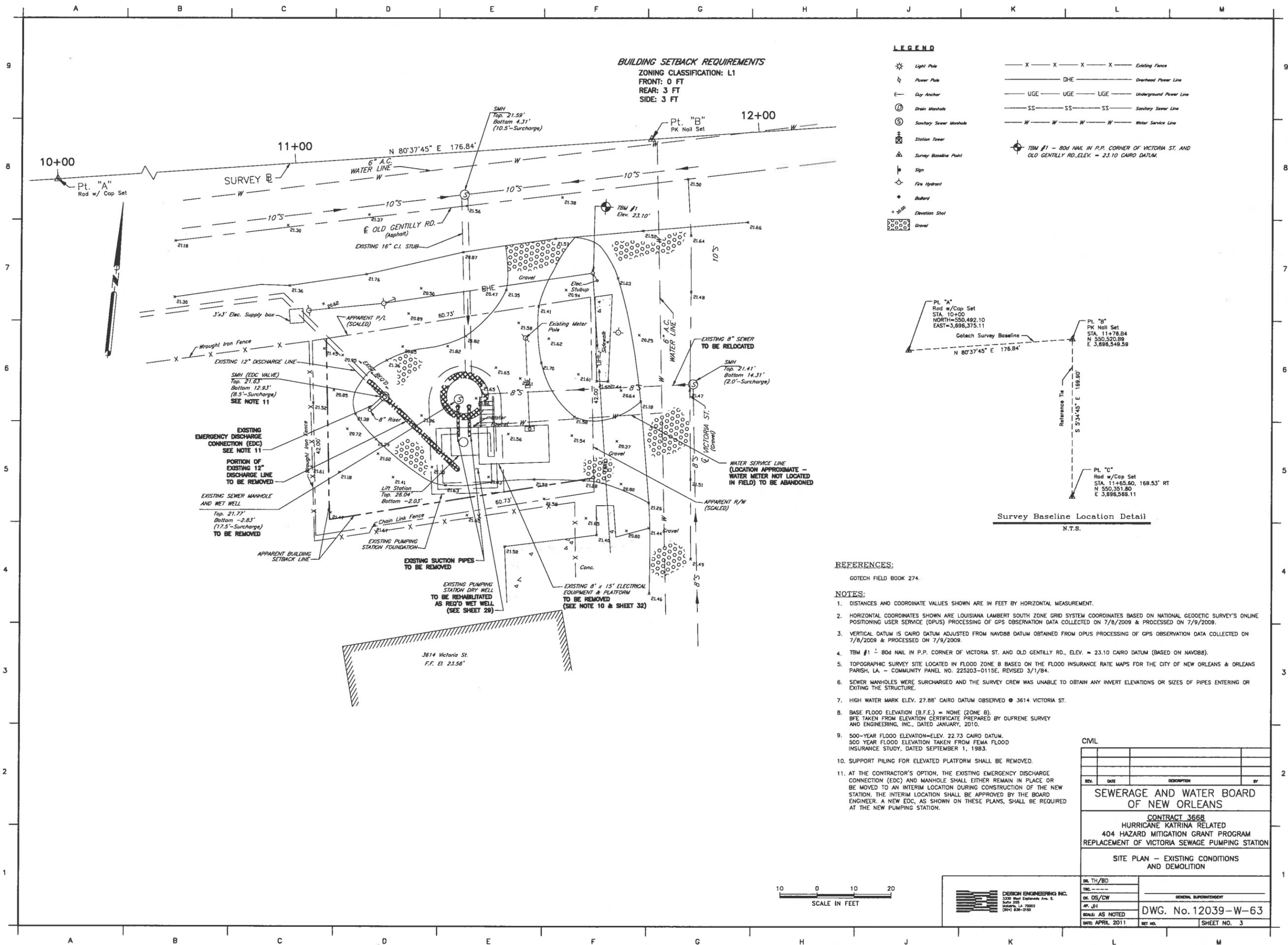
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8. ALL WORK SHALL CONFORM TO THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS, THE SEWERAGE AND WATER BOARD OF NEW ORLEANS(SWBNO), LOUISIANA DEPARTMENT OF PUBLIC HOSPITALS (DHP) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF DIRT AND DEBRIS FROM STREETS AND ROADWAYS AND PROJECT SITE GENERATED BY CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ADJACENT PAVEMENT AND FENCING WHICH RESULTS FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE SWBNO.
11. CONTRACTOR SHALL CLEAN AND PAINT ALL EXPOSED SURFACES OF MECHANICAL EQUIPMENT, PIPING, PIPE SUPPORTS, AND OTHER ELEMENTS IN ACCORDANCE WITH SECTION 11 OF THE SPECIFICATIONS.
12. CONTRACTOR SHALL VERIFY PUMP STATION DIMENSIONS WITH EQUIPMENT MANUFACTURER'S SHOP DRAWINGS TO ENSURE PROPER FIT WITHIN THE STRUCTURE.
13. CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND IMPROVEMENTS FROM DAMAGE AND REPLACE ANY PORTIONS DAMAGED THROUGH HIS OPERATION AT HIS OWN EXPENSE. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE SWBNO.
14. CONTRACTOR SHALL RE-GRADE ALL AREAS ALTERED BY CONSTRUCTION ACTIVITIES TO PROVIDE POSITIVE DRAINAGE. ALL WORK SHALL BE IN A MANNER ACCEPTABLE TO THE SWBNO.
15. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE TO THOSE AFFECTED BY CONSTRUCTION ACTIVITIES THAT MAY DISRUPT WATER, SEWER, OR OTHER UTILITY SERVICES. UTILITY SERVICES SHALL BE PROMPTLY REPAIRED AND SHALL NOT REMAIN OUT OF SERVICE OVERNIGHT.
16. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATION TO ENSURE MINIMAL INCONVENIENCE TO THE GENERAL PUBLIC, ADJACENT PROPERTY OWNERS, AND BUSINESSES. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL PROPERTIES AND TRAFFIC FLOW IN ROADWAYS AT ALL TIMES.
17. ALL GRASS AREAS ALTERED SHALL BE SEED, FERTILIZED, WATERED, AND MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL WATER DAILY FROM SEEDING UNTIL 2 WEEKS AFTER GERMINATION.
18. THE CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES:
 SEWERAGE AND WATER BOARD OF NEW ORLEANS
 BKI: DENNIS GARRARD 504-486-5901
 LOUISIANA ONE CALL - 1-800-272-3020
19. ALL MISCELLANEOUS METAL WORK, INCLUDING PIPE SUPPORTS AND BRACKETS TO BE INSTALLED WITHIN THE WET WELL SHALL BE MANUFACTURED ENTIRELY OF TYPE 316 STAINLESS STEEL. LIKEWISE, ALL FASTENERS, INCLUDING ANCHOR BOLTS INSTALLED WITHIN THE WET WELL SHALL BE MANUFACTURED OF STAINLESS STEEL. THREADS OF ALL STAINLESS STEEL FASTENERS SHALL BE TREATED WITH AN ANTI-SEIZE COMPOUND FORMULATED FOR USE WITH STAINLESS STEEL, SUCH AS "PURE NICKEL SPECIAL ANTI SEIZE COMPOUND", MANUFACTURED BY "NEVER-SEEZ", OR EQUAL.
20. COMPLETED INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS, LOCAL CODES, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
21. ALL ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED ACCORDING TO SECTION 15 OF THE SPECIFICATIONS.
22. NAMEPLATES CONTAINING PERTINENT DATA SHALL BE INSTALLED ON ALL THE EQUIPMENT THAT IS INSTALLED BY THE CONTRACTOR.
23. TESTING SHALL BE PERFORMED BY QUALIFIED TESTING AGENCIES AND FIELD SERVICE COMPANIES AS NECESSARY TO AUGMENT THE CONTRACTOR'S OWN CAPABILITIES. TESTING AND REPORTING METHODS SHALL COMPLY WITH APPLICABLE CITY OF NEW ORLEANS STANDARDS. ALL TEST RESULTS SHALL BE PUBLISHED ON THE CONTRACTOR'S OR TESTING COMPANY'S LETTERHEAD OR TEST FORMS BEARING THE LEGAL NAME AND ADDRESS OF THE COMPANY.
24. THE NEW STRUCTURES SHOWN ARE TO BE TIED INTO EXISTING PIPING. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS THAT RELATE TO NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OR CONSTRUCTION.



REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3668 HURRICANE KATRINA RELATED 404 HAZARDOUS MITIGATION GRANT PROGRAM REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION			
LOCATION MAP/GENERAL NOTES			
DR. TH/BD			
TIC			
CL. DS/CW			
APP. JH			
SCALE: AS SHOWN			
DATE: APRIL 2011			

DWG. No. 12039-W-63
 SHEET NO. 2

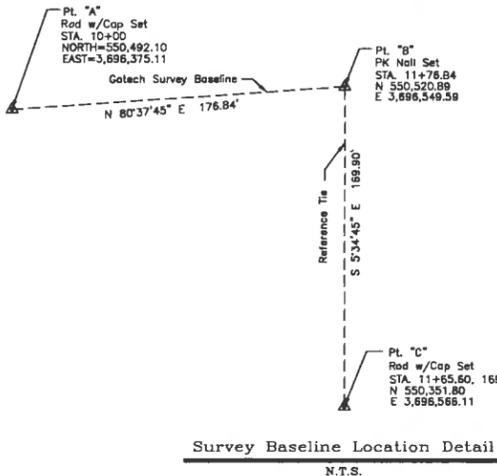
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BUILDING SETBACK REQUIREMENTS
 ZONING CLASSIFICATION: L1
 FRONT: 0 FT
 REAR: 3 FT
 SIDE: 3 FT

LEGEND

- ⊙ Light Pole
- ⊙ Power Pole
- ⊙ Gas Anchor
- ⊙ Drain Manhole
- ⊙ Sanitary Sewer Manhole
- ⊙ Station Tower
- ⊙ Survey Baseline Point
- ⊙ Sign
- ⊙ Fire Hydrant
- ⊙ Belford
- ⊙ Elevation Shot
- ⊙ Gravel
- X — X — X — X — X Existing Fence
- DHE — Overhead Power Line
- UGE — UGE — UGE — Undergrnd Power Line
- SS — SS — SS — Sanitary Sewer Line
- W — W — W — W — Water Service Line
- ⊙ TBM #1 - BOD NAIL IN P.P. CORNER OF VICTORIA ST. AND OLD GENTILLY RD. ELEV. = 23.10 CAIRO DATUM.



REFERENCES:

GOTCH FIELD BOOK 274.

NOTES:

1. DISTANCES AND COORDINATE VALUES SHOWN ARE IN FEET BY HORIZONTAL MEASUREMENT.
2. HORIZONTAL COORDINATES SHOWN ARE LOUISIANA LAMBERT SOUTH ZONE GRID SYSTEM COORDINATES BASED ON NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS) PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/9/2009 & PROCESSED ON 7/9/2009.
3. VERTICAL DATUM IS CAIRO DATUM ADJUSTED FROM NAVD83 DATUM OBTAINED FROM OPUS PROCESSING OF GPS OBSERVATION DATA COLLECTED ON 7/8/2009 & PROCESSED ON 7/9/2009.
4. TBM #1 - BOD NAIL IN P.P. CORNER OF VICTORIA ST. AND OLD GENTILLY RD. ELEV. = 23.10 CAIRO DATUM (BASED ON NAVD83).
5. TOPOGRAPHIC SURVEY SITE LOCATED IN FLOOD ZONE B BASED ON THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF NEW ORLEANS & ORLEANS PARISH, LA. - COMMUNITY PANEL NO. 225203-011SE, REVISED 3/1/84.
6. SEWER MANHOLES WERE SURCHARGED AND THE SURVEY CREW WAS UNABLE TO OBTAIN ANY INVERT ELEVATIONS OR SIZES OF PIPES ENTERING OR EXITING THE STRUCTURE.
7. HIGH WATER MARK ELEV. 27.88' CAIRO DATUM OBSERVED @ 3614 VICTORIA ST.
8. BASE FLOOD ELEVATION (B.F.E.) = NONE (ZONE B). BFE TAKEN FROM ELEVATION CERTIFICATE PREPARED BY DUPRENE SURVEY AND ENGINEERING, INC., DATED JANUARY, 2010.
9. 500-YEAR FLOOD ELEVATION=ELEV. 22.73 CAIRO DATUM. 500 YEAR FLOOD ELEVATION TAKEN FROM FEMA FLOOD INSURANCE STUDY, DATED SEPTEMBER 1, 1983.
10. SUPPORT PILING FOR ELEVATED PLATFORM SHALL BE REMOVED.
11. AT THE CONTRACTOR'S OPTION, THE EXISTING EMERGENCY DISCHARGE CONNECTION (EDC) AND MANHOLE SHALL EITHER REMAIN IN PLACE OR BE MOVED TO AN INTERIM LOCATION DURING CONSTRUCTION OF THE NEW STATION. THE INTERIM LOCATION SHALL BE APPROVED BY THE BOARD ENGINEER. A NEW EDC, AS SHOWN ON THESE PLANS, SHALL BE REQUIRED AT THE NEW PUMPING STATION.

CIVIL

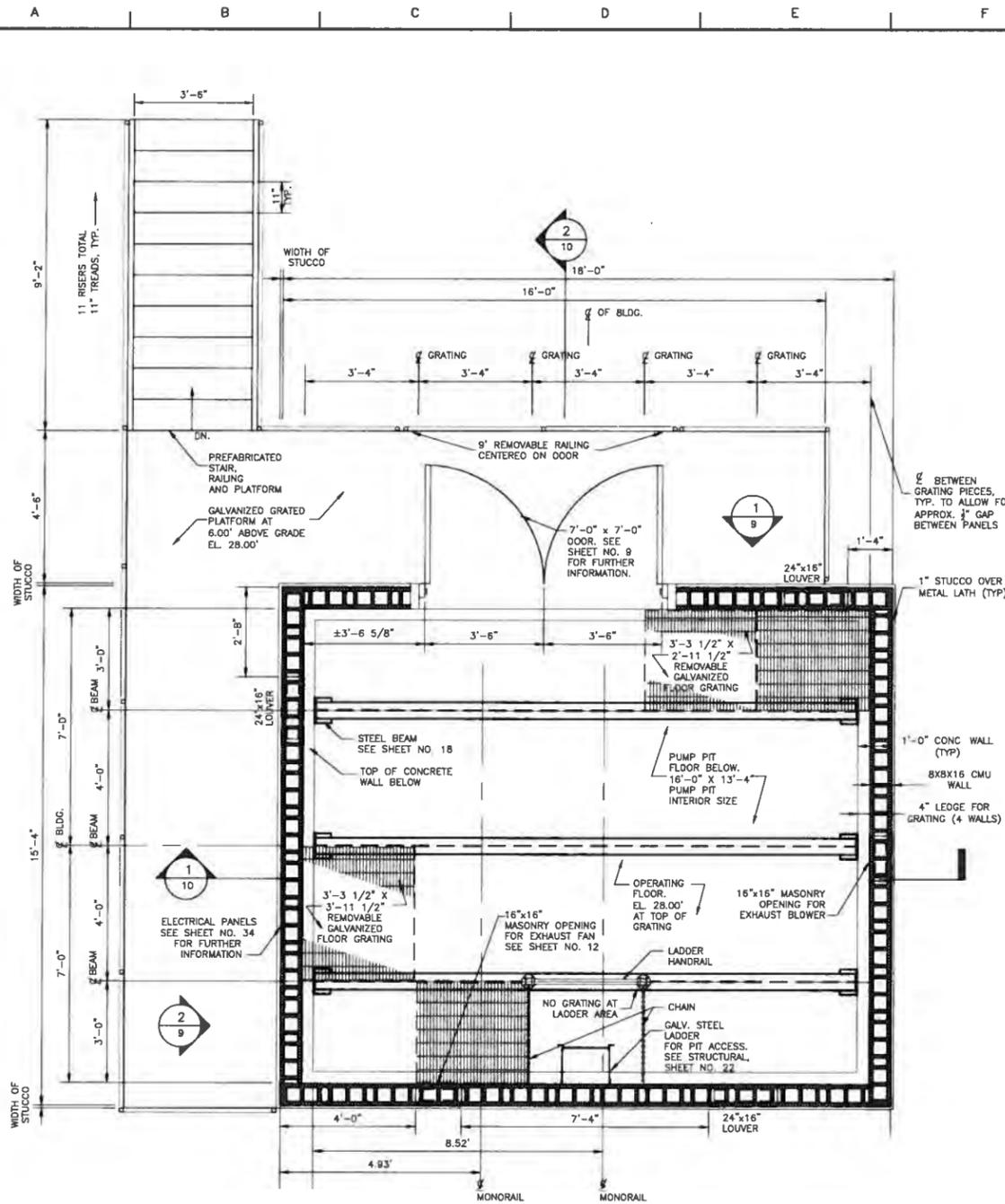
REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3668 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION			
SITE PLAN - EXISTING CONDITIONS AND DEMOLITION			



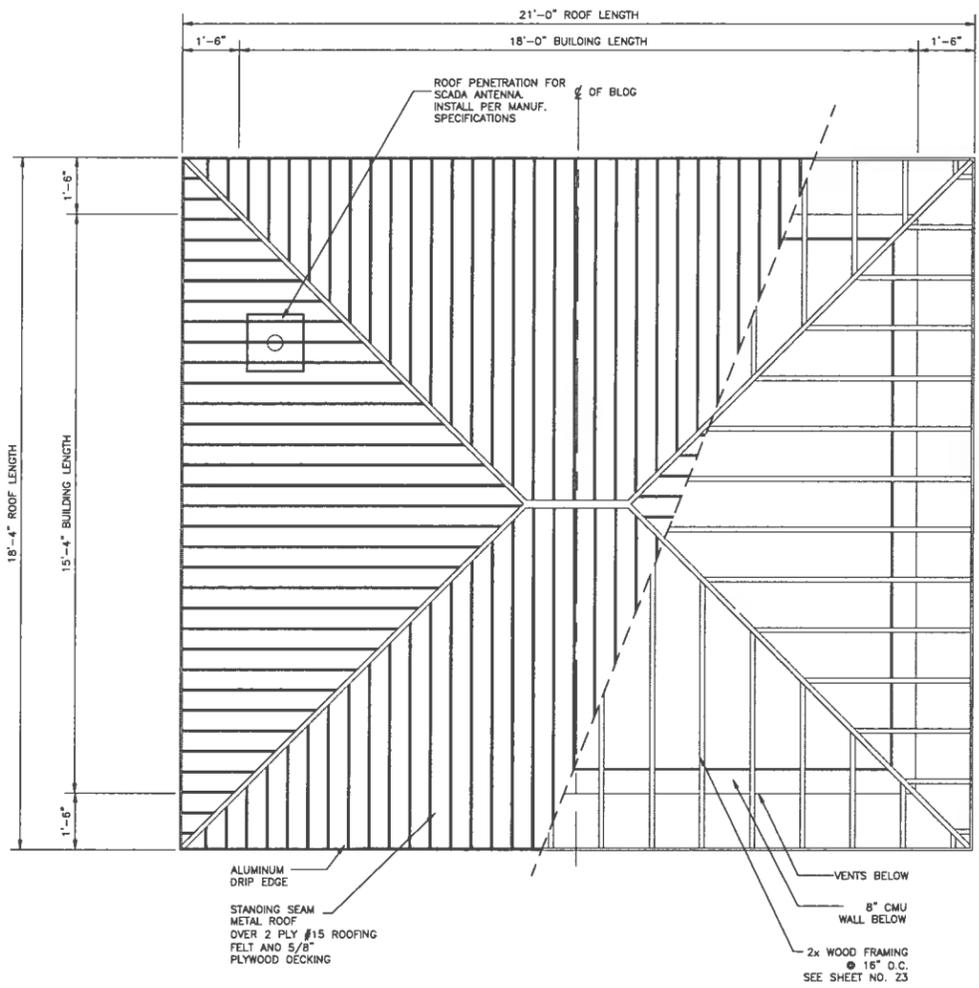
DESIGN ENGINEERING INC.
 3330 West Esplanade Ave. S.
 Suite 203
 Metairie, LA 70002
 (504) 885-2188

DR. TH/BD	GENERAL SUPERVISOR
CK. DS/CW	
AP. JH	DWG. No. 12039-W-63
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1 OPERATING FLOOR / ARCHITECTURAL FRAMING PLAN
1/2" = 1'-0"



2 COMBINED ROOF AND FRAMING PLAN
1/2" = 1'-0"



ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

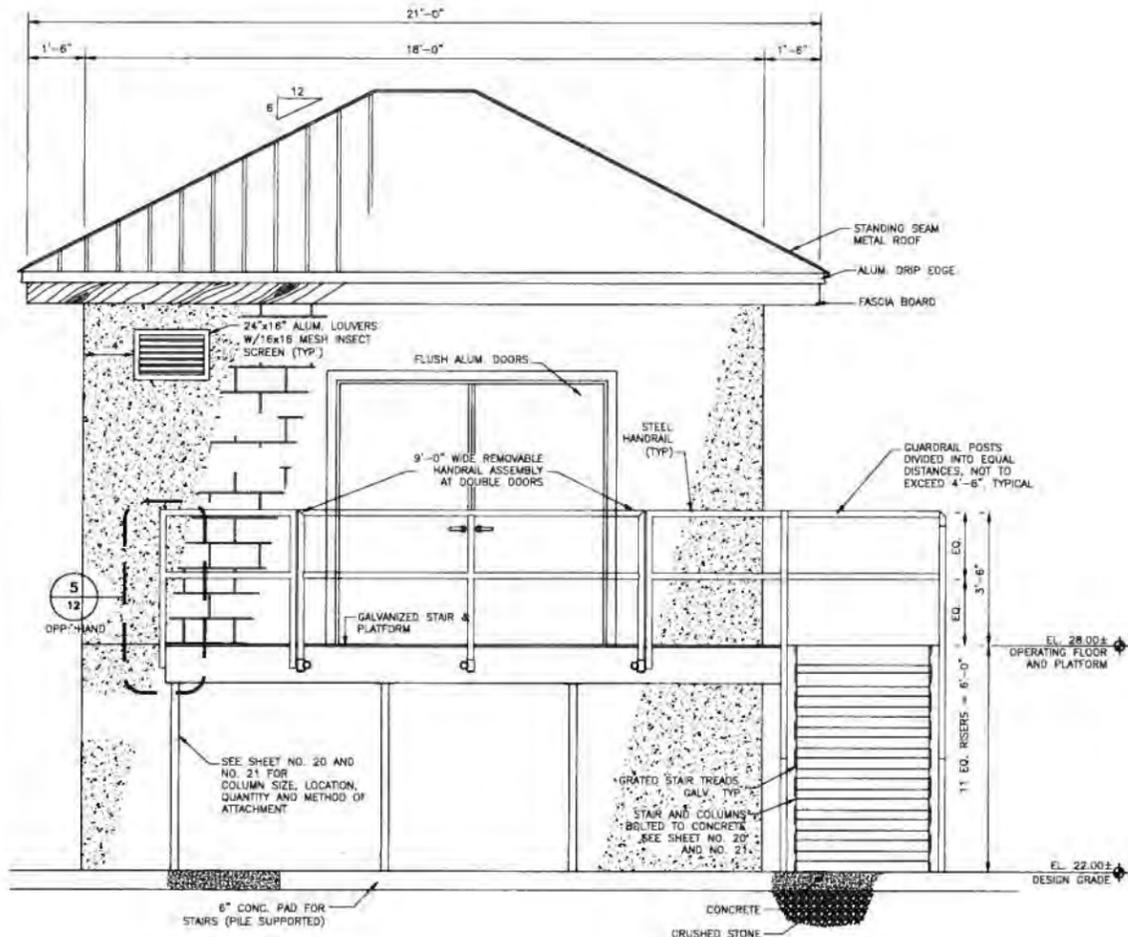
CONTRACT 3668
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION

FLOOR FRAMING AND ROOF PLANS

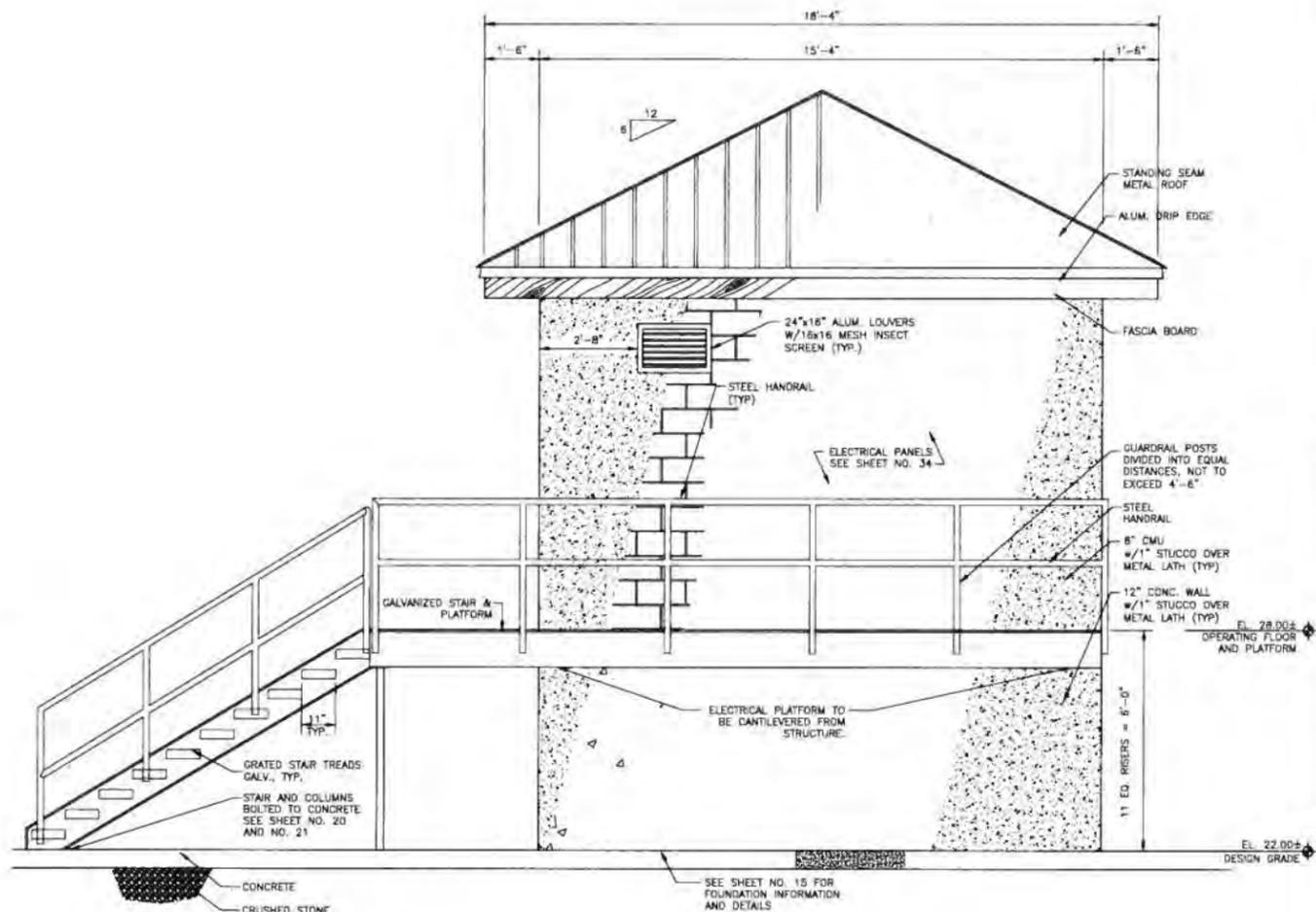
DESIGN ENGINEERING INC.
3330 West Esplanade Ave. E.
Suite 200
Metairie, LA 70002
(504) 885-2150

DR. JW	
TITLE	GENERAL SUPERINTENDENT
DC. DW	
AP. DW	
SCALE: AS NOTED	DWG. No. 12039-W-63
DATE: APRIL 2011	SHEET NO. 8

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1 NORTH ELEVATION
1/2" = 1'-0"



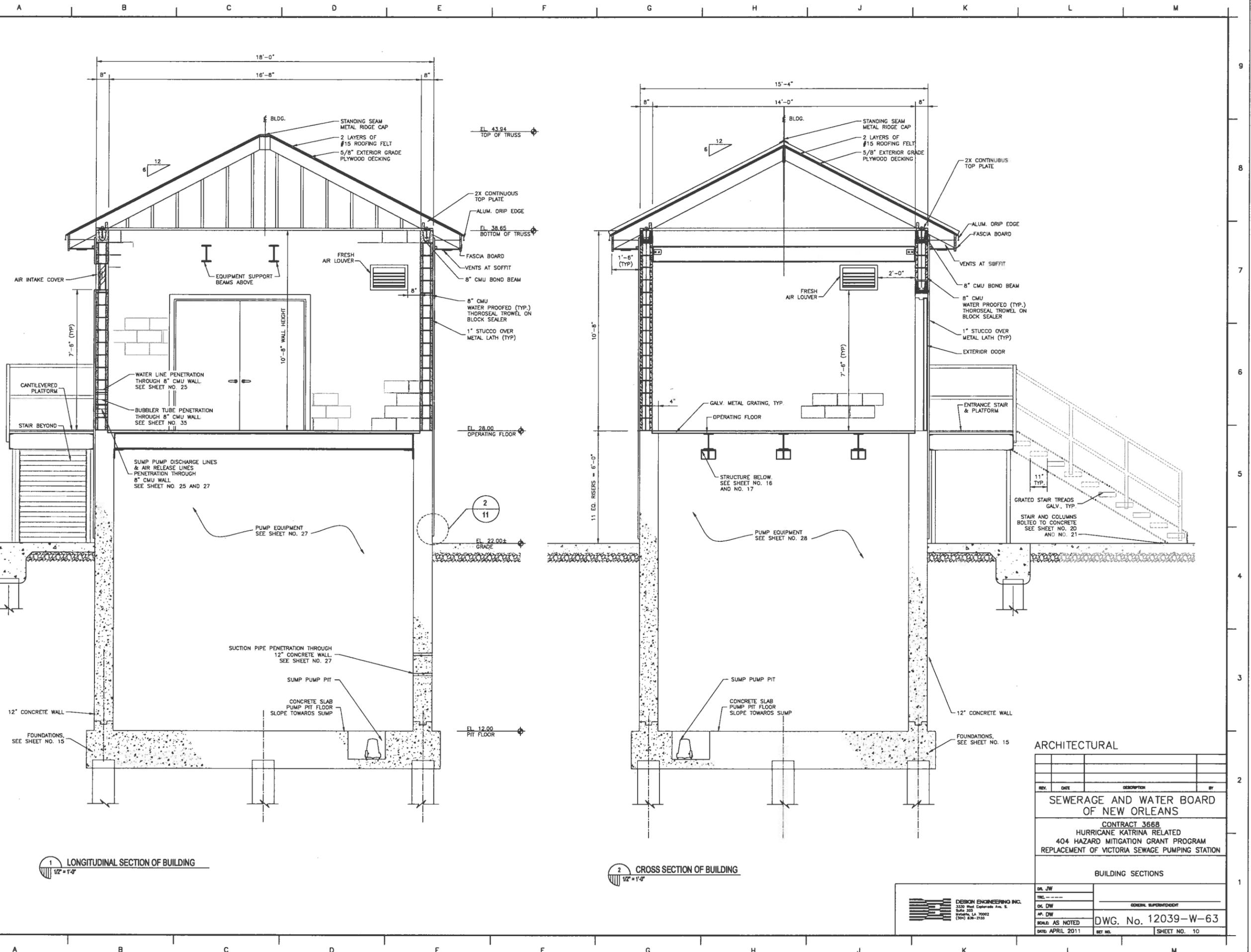
2 WEST ELEVATION
1/2" = 1'-0"

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REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
CONTRACT 3668 HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION			
BUILDING ELEVATIONS			

<p>DERON ENGINEERING INC. 3330 West Esplanade Ave. 5 Suite 205 Metairie, LA 70002 (504) 885-2100</p>	DR. JW	GENERAL SUPERVISOR
	CK. DW	
	MR. DW	
	DATE: APRIL 2011	REF. NO.
DRAWN AS NOTED		DWG. No. 12039-W-63
		SHEET NO. 9

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1 LONGITUDINAL SECTION OF BUILDING
1/2" = 1'-0"

2 CROSS SECTION OF BUILDING
1/2" = 1'-0"

ARCHITECTURAL

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD
OF NEW ORLEANS

CONTRACT 3668
HURRICANE KATRINA RELATED
404 HAZARD MITIGATION GRANT PROGRAM
REPLACEMENT OF VICTORIA SEWAGE PUMPING STATION

BUILDING SECTIONS

DESIGN ENGINEERING INC.
3330 West Esplanade Ave. S.
Suite 200
Metairie, LA 70002
(504) 885-3100

DR. JW	
TWC	
DC. DW	
AP. DW	
SCALE: AS NOTED	DWG. No. 12039-W-63
DATE: APRIL 2011	SHEET NO. 10