Replacement of Railcar Cleaning Platform

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW)

LEHMAN CENTER
6601 N.W. 72nd Avenue
Miami, Florida 33166

BOARD OF COUNTY COMMISSIONERS

Jose "Pepe" Diaz, Chairman
Oliver G. Gilbert, III Vice Chairman

Jose "Pepe"Diaz	Raquel Regalado
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Eileen Higgins	District 11
Rebeca Sosa	Rene Garcia

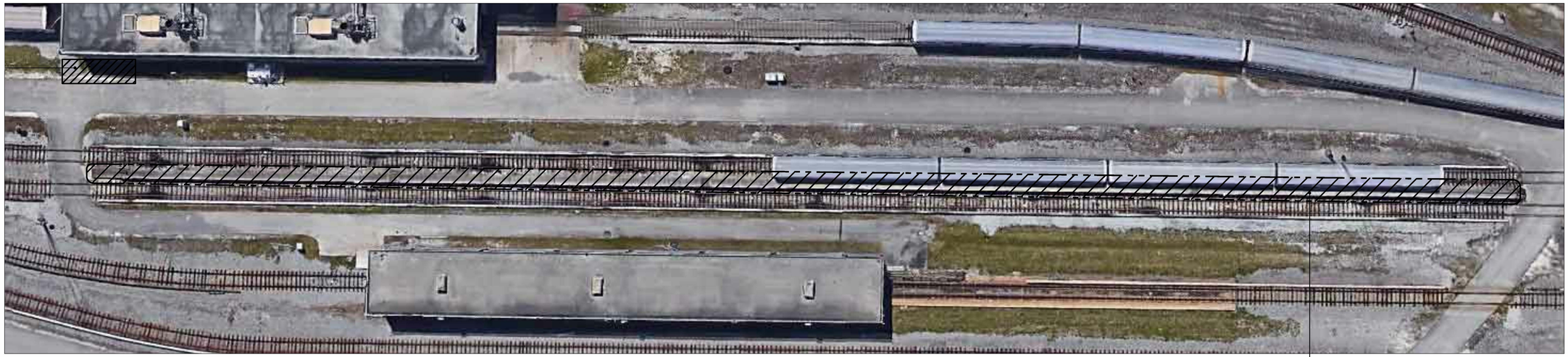
Daniella Levine Cava, Mayor

Index of Drawings

N LEHMAN YARD N.T.S

FINAL DOCUMENTS - BID SET - 3/3/20
PERMIT REVISIONS INCORPORATED

△△



N LEHMAN YARD PLATFORM N.T.S

S E A L

Osvaldo L. Landera, A.I.A.
Florida Registration No. AR0009044

LANDERA ASSOCIATES, P.A.
8800 S.W. 85th Terrace Miami, Florida 33173
305-662-1660 Fax 786-536-7375
Architecture Roofing Consultants Planning Graphic Design AA0003517

Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

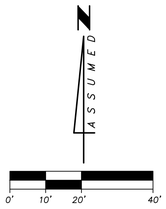
REVISIONS
△ REVISIONS 11/27/17
△ REVISIONS 7/3/19

DATE
6/14/17
DESIGN OLL DRAWN GBS

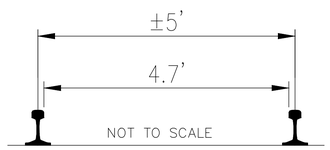
G1.0

1 OF 1

SPECIFIC PURPOSE SURVEY



GRAPHIC SCALE
SCALE : 1" = 20'



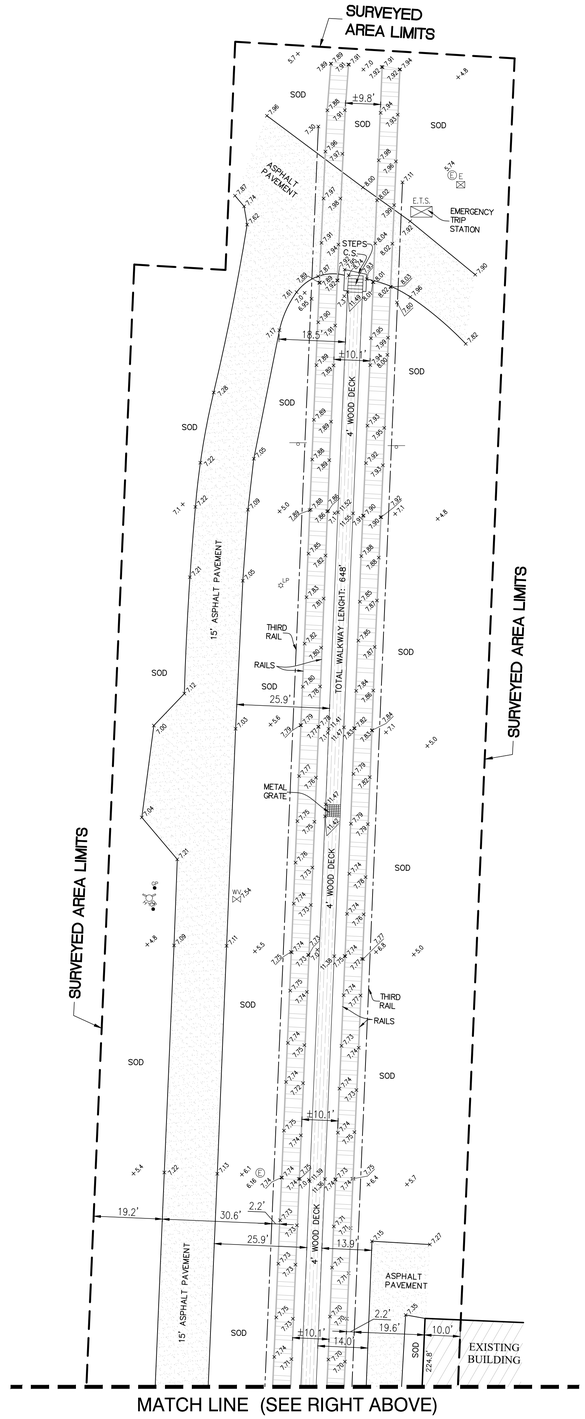
NOTE:
Track rails and third rail lines shown hereon represent an approximate C/L of said rails.

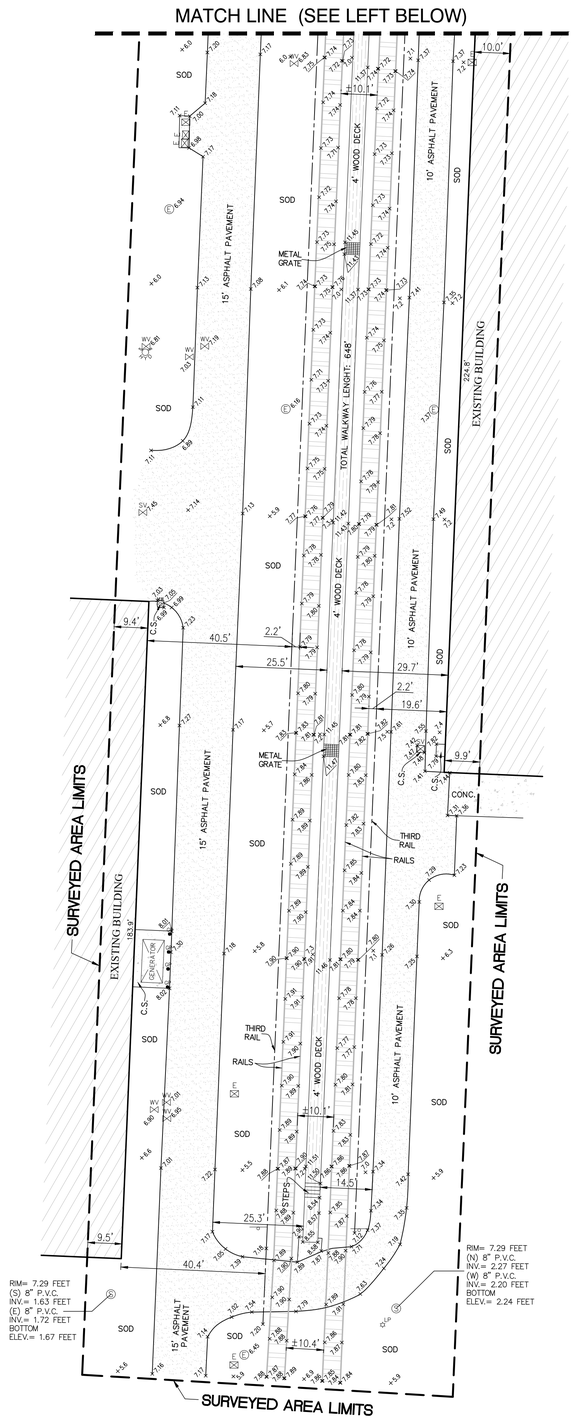
ABBREVIATIONS

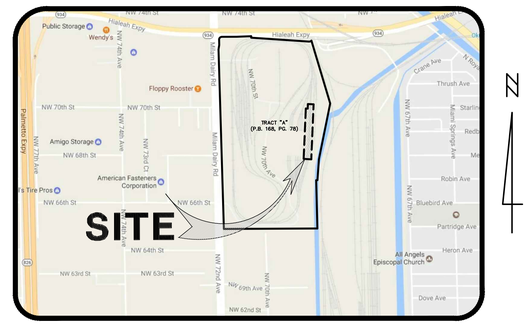
A	Arc Length	M/L	Monument Line
A/C	Air Conditioner Pad	P.B.	Plat Book
ASPH.	Asphalt	P.C.P.	Permanent Control Point
B.M.	Benchmark	PG.	Page
C.B.S.	Concrete Block Structure	PL.	Planter
C.G.	Curb & Gutter	P/L	Property Line
C/L	Center Line	P.O.B.	Point of Beginning
C.L.F.	Chain Link Fence	P.O.C.	Point of Commencement
CONC.	Concrete	P/S	Parking Spaces
C.S.	Concrete Slab	P.R.M.	Permanent Reference Monument
DWY.	Driveway		
E.O.W.	Edge of Water	R/W	Right-of-Way Line
E.T.P.	Electric Transformer Pad	SWK.	Sidewalk
F.F.E.	Finished Floor Elevation	T.B.M.	Temporary Benchmark
F.I.P.	Found Iron Pipe	T.O.B.	Top of Bank
F.N.	Found Nail	T.O.B.	Top of Pipe
F.N.D.	Found Nail & Disc	U.E.	Utility Easement
F.R.	Found Rebar	V.G.	Valley Gutter
ID.	Identification	W.F.	Wood Fence
INV.	Inverts	(TYP.)	Typical
L.F.E.	Lowest Floor Elevation	R.	Recorded

LEGEND

	Air Conditioner		Irrigation Control Valve
	Back Flow Preventer		Light Pole
CATV	Cable Television		Mail Box
	Catch Basin		Metal Fence
	Chain Link Fence		Monitoring Well
	Clean Out	OHL	Overhead Utility Lines
CLP	Concrete Light Pole		Parking Meter
	Concrete Power Pole		Property Corner
	Control Valve		Right-of-Way Lines
	C.B.S. Wall	S	Sewer Manhole
Ø	Diameter		Sewer Valve
1.5'-15'-10'	Diameter-Height-Spread	+10.00	Spot Elevation
	Drain		Traffic Light
D	Drainage Manhole		Traffic Sign
E	Electric Box		Telephone Booth
	Electric Meter		Telephone Box
ELECTRIC MOTOR	Electric Motor	T	Telephone Manhole
ELECTRIC PANEL	Electric Panel		Temporary Benchmark
	Fire Hydrant		Unknown Manhole
	Flag		Utility Power Pole
	Floor Lamp		Valve (Unknown)
FM	Force Main Valve	W	Water Manhole
G	Gas Valve		Water Meter
G	Grease Manhole		Water Pump
	Guard Pole		Water Valve
	Guy Wire	-//-//-	Wood Fence







LOCATION SKETCH
NOT TO SCALE

SURVEYOR'S NOTES:

1. Last day of field work was performed on January 13th, 2017.

2. The surveyed area consist in an approximate 1.75 Acres of a portion of Miami-Dade Transit Lehman Center located in Tract "A" in Plat Book 168, at Page 78, of the Public Records of Miami-Dade County, Florida.

3. By scaled determination the subject property appears to lie in Flood Zone X, as per Federal Emergency Management Agency (FEMA) Community-Panel Number 120635, Map No. 12086C0283, Suffix L, Revised Date: 09-11-2009.

An accurate Zone determination should be made by the preparer of the map, the Federal Emergency Management Agency, or the Local Government Agency having jurisdiction over such matters prior to any judgments being made from the Zone as noted.
The referenced Federal Emergency Management Agency Map states in the notes to the user that "this map is for insurance purposes only".

4. SOURCES OF DATA:

AS TO VERTICAL CONTROL:

The vertical control element of this survey was derived from the National Geodetic Vertical Datum (1929).

Benchmark Identification:
Miami-Dade County Benchmark: N-907
Elevation: 8.01 feet (National Geodetic Vertical Datum 1929)
Location:
N.W. 74th Street ---106' South of C/L
N.W. 72nd Avenue ---54' West of C/L.
Description: PK nail and aluminum washer in conc sidewalk in front of traffic control box.

AS TO HORIZONTAL CONTROL:

North Arrow as per Plat Book 168, Page 78 of the Public Records of Miami-Dade County, Florida.

5. The Survey depicted hereon is not intended to show the location or existence of any Wetland or Jurisdictional areas, or areas of protected species of vegetation either natural or cultivated.

6. Any use of this Survey for purposes other than which it was intended, without written verification, will be at the user's sole risk and without liability to the surveyor. Nothing herein shall be construed to give any rights or benefits to anyone other than those certified to.

7. Since no other information other than what is cited in the Sources of Data was furnished, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map or contained within this Report that may be found in the Public Records of Miami-Dade County, or the records of any other public and private entities as their jurisdictions may appear. The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may appear in public records. No excavation or determination was made as to how the Subject Property is served by utilities. No improvements were located, other than those shown. No underground foundations and/or improvements were located or shown hereon.
This notice is required by the "Standards of Practice for Land Surveying in the State of Florida," pursuant to Rule 5J-17 of the Florida Administrative Code.

Notice is hereby given that Sunshine State One Call of Florida, Inc. must be contacted at 1-800-432-4770 at least 48 hours in advance of any construction, excavation or demolition activity within, upon, abutting or adjacent to the Subject Property. This Notice is given in compliance with the "Underground Facility Damage Prevention and Safety Act," pursuant to Chapter 556.101-111 of the Florida Statutes.

8. This Specific Purpose Survey and the Survey Map resulting therefrom was prepared at the insistence of:

LANDERA ASSOCIATES, PA

9. The specific purpose of this survey is to locate the existing structures, railroad tracks, to show elevations and above ground visible utilities located within the surveyed area as per client request.

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY: That this "Specific Purpose Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief. Further, that said "Specific Purpose Survey" meets the intent of the applicable provisions of the "Standards of Practice for Land Surveying in the State of Florida", pursuant to Rule 5J-17 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes. The undersigned further certifies that the Positional Uncertainties resulting from the survey measurements made on the survey do not exceed the allowable Positional Tolerance.

J. Bonfill & Associates, Inc.
Florida Certificate of Authorization Number LB3398

By: _____
Oria Jannet Suarez, P.S.M.
Professional Surveyor and Mapper Number No. 6781
State of Florida

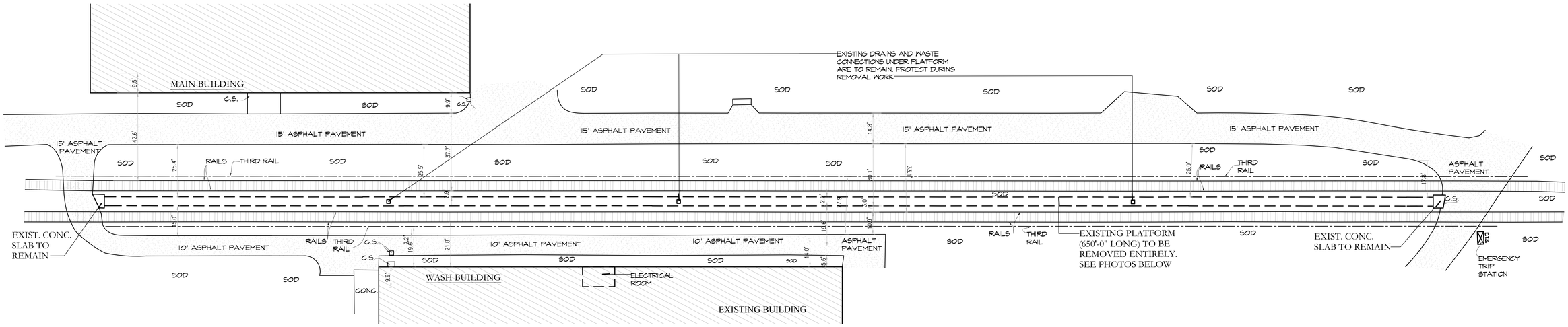
NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps or Reports by other than the signing party or parties is prohibited without the written consent of the signing party or parties.

J. Bonfill & Associates, Inc.
REGISTERED LAND SURVEYORS & MAPPERS
Florida Certificate of Authorization LB3398
7100 S.W. 99th Avenue Suite 104
Miami, Florida 33173 (305) 598-8383

SPECIFIC PURPOSE SURVEY
of
PORTION OF MIAMI-DADE TRANSIT LEHMAN CENTER,
6601 N.W. 72nd AVENUE, MIAMI
MIAMI-DADE COUNTY, FLORIDA 33166
for
LANDERA ASSOCIATES, PA

REVISIONS	BY

Proj:	16-0332
Job:	16-0332
Date:	01-13-2017
Drawn:	G.P., J.S., M.R.
Checked:	J.S.
Scale:	AS SHOWN
Field Book:	ON FILE
SHEET	1 OF 1



N

SITE PLAN - EXISTING

1" = 20'

EXISTING WOOD FRAME PLATFORM TO BE REMOVED ENTIRELY.

EXISTING STEEL SUPPORT COLUMNS AT APPROXIMATELY 8'-0" CENTERS TO BE REMOVED ENTIRELY

WOOD PLATFORM TO BE REMOVED

CAUTION: ELECTRIFIED THIRD RAIL. COORDINATE WITH MDC PROJECT MANAGER TO SHUT DOWN POWER WHEN WORKING ADJACENT TO RAILS.

EXISTING CONCRETE FOOTINGS AT EACH STEEL SUPPORT COLUMN TO BE EXCAVATED AND REMOVED ENTIRELY.

PHOTOGRAPHS OF EXISTING PLATFORM

GENERAL REMOVAL NOTES:

1. BIDDER SHALL VIEW AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF A BID PRICE.
2. ALL COMPONENTS OF THE EXISTING PLATFORM, INCLUDING WOOD DECKING AND FRAMING, STEEL SUPPORT COLUMNS, WOOD SUPPORT COLUMNS, WOOD RAILINGS AND CONCRETE FOOTINGS, SHALL BE REMOVED ENTIRELY.
3. CONTRACTOR SHALL REMOVE ALL MATERIAL AND DEBRIS FROM SITE ON A DAILY BASIS AND DISPOSE OF LEGACY.
4. CONTRACTOR SHALL NOT PILE DEBRIS OR FILL ALONG TRAIN TRACKS AT ANY TIME.
5. CONTRACTOR SHALL COORDINATE WITH MDC PROJECT MANAGER AND SITE SAFETY/SECURITY PERSONAL TO ASSURE ELECTRIFIED RAILS ARE NOT ENERGIZED WHEN WORKING ALONG TRACKS.

This project will be performed in two phases:
Phase 1 - from gridline 1 thru 18
Phase 2 - from gridline 18 thru 36

S E A L

Osvaldo L. Landera, A.I.A.
Florida Registration No. AR0009044

LANDERA ASSOCIATES, P.A.
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LANDERA ASSOCIATES
Architecture
Roofing Consultants
Planning
Graphic Design
AA0001017

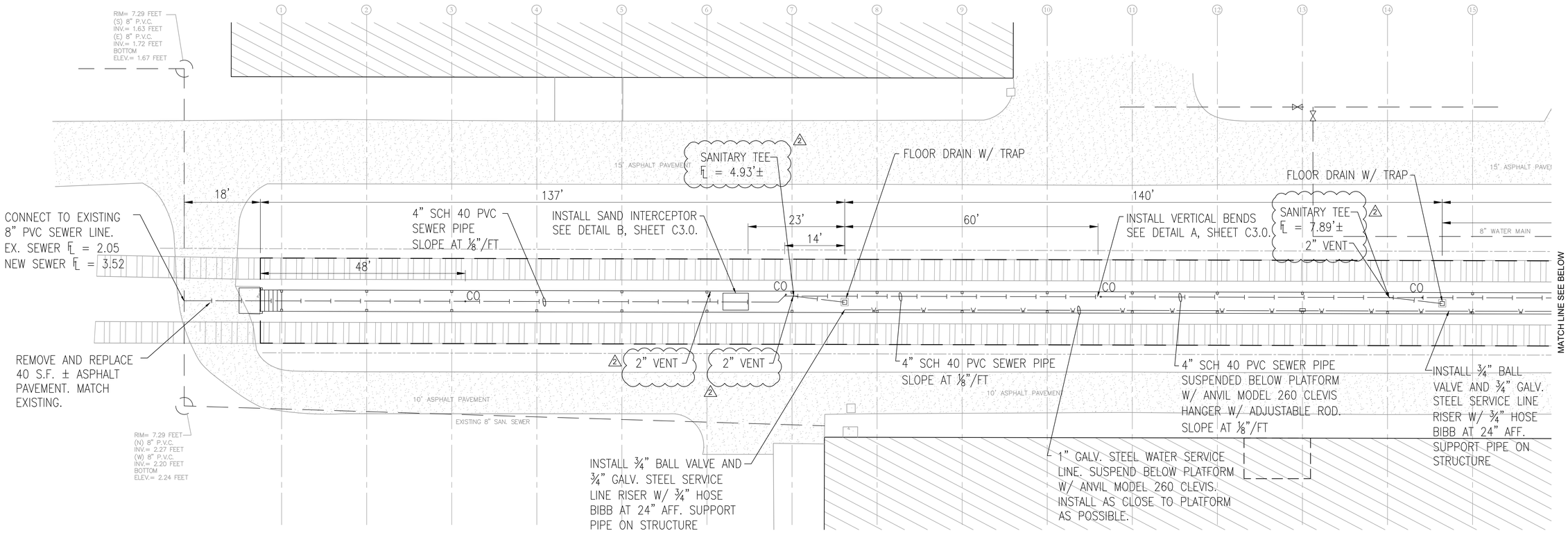
Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

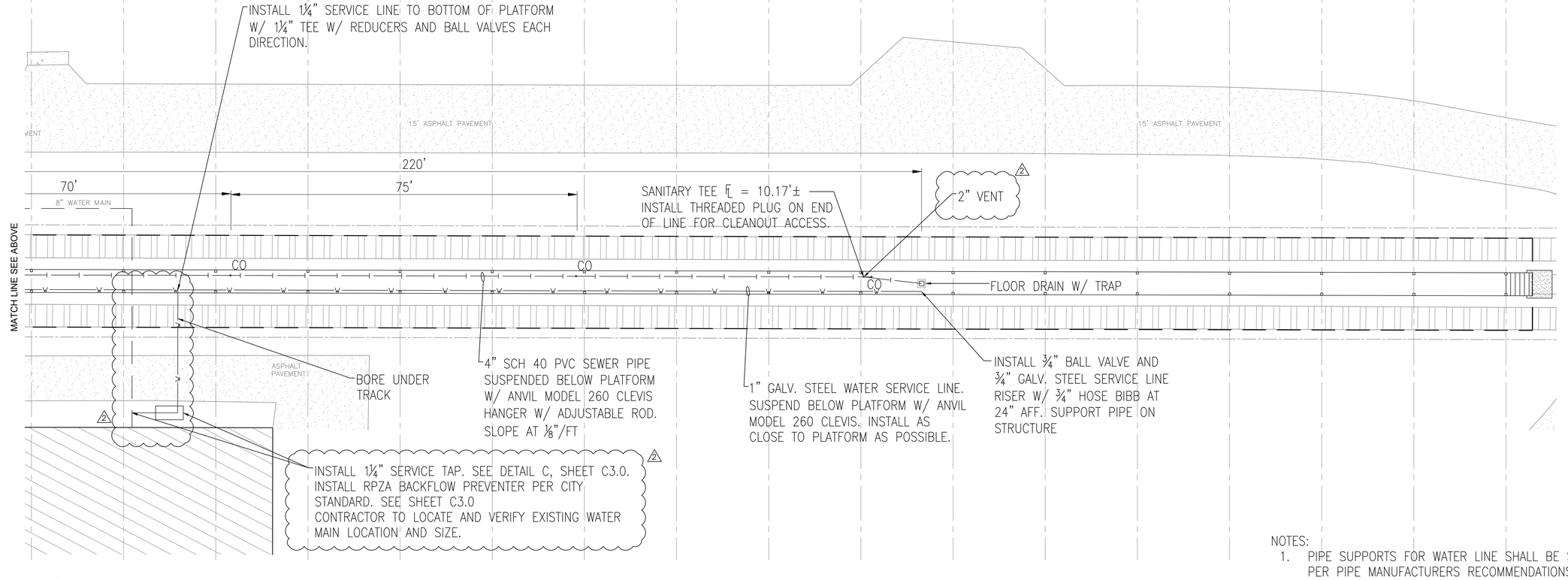
PROJECT NO.
LA16011

REVISIONS

DATE
4/19/17
DESIGN OLL
DRAWN GBS

D1.0





N

UTILITY SITE PLAN 1" = 10'

NOTES:

1. PIPE SUPPORTS FOR WATER LINE SHALL BE SPACED PER PIPE MANUFACTURERS RECOMMENDATIONS, MAX SPACING = 4'–0".

2. PIPE SUPPORTS FOR SEWER LINE SHALL BE SPACED PER PIPE MANUFACTURERS RECOMMENDATIONS, MAX SPACING = 4'–0"

CHAD R. LAWSON, P.E.
Florida Registration No. 77132

LOCHNER
4350 West Cypress Street, Suite 360 | Tampa, Florida 33607
P 813-357-3750

Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
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PROJECT NO.
LA16011

REVISIONS

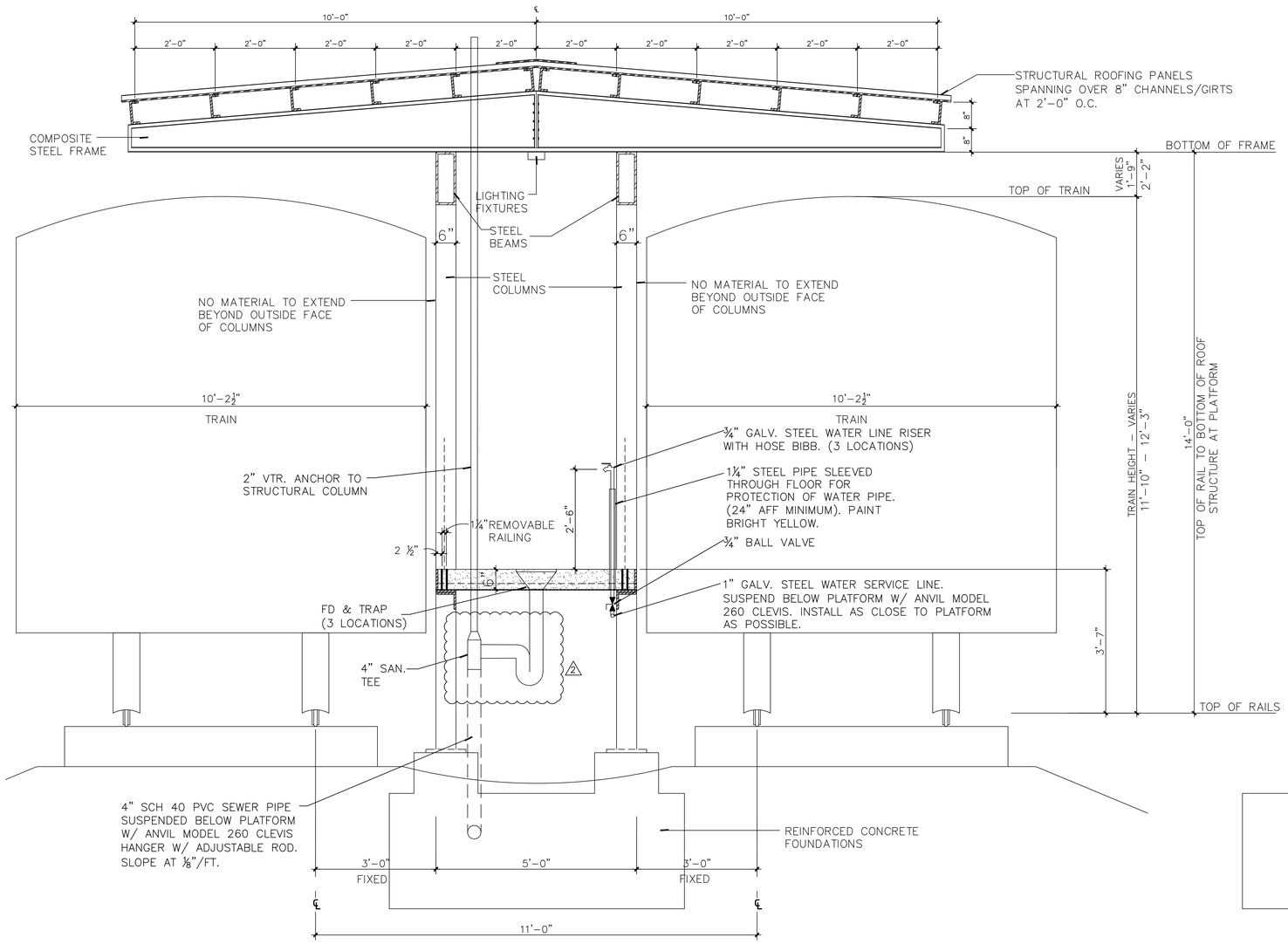
1	5/30/2019
	ADDED SHEET
2	1/28/2020
	COMMENTS 01/17/20

DATE 8/20/19
DESIGN CRL | DRAWN CSS

C1.0

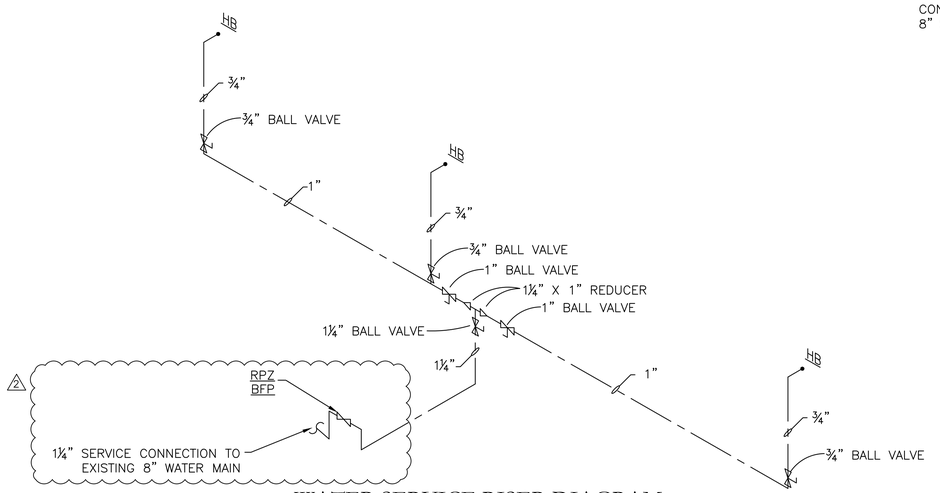
1 OF 3

Drawing Name: I:\SLW\PROJ\0000\13049\ACAD\DWG\C1.0 - Railcar Platform Utility Site.dwg Feb 06,2020 - 8:53am

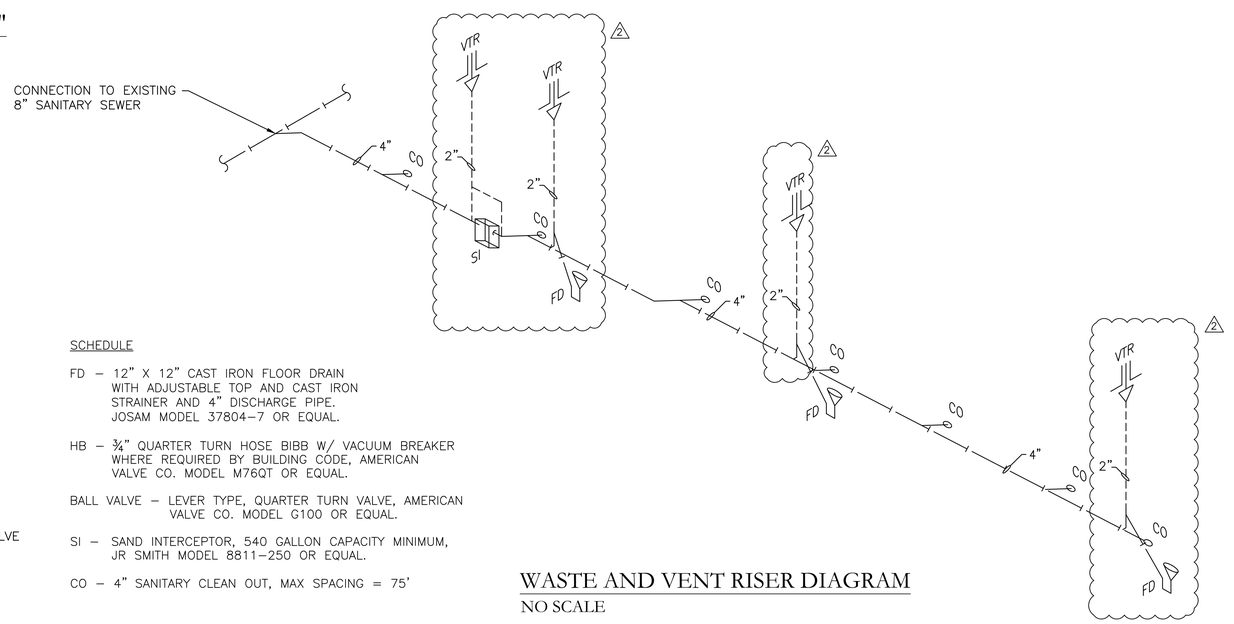


A C2.0 SECTION 3/4" = 1'-0"
PROPOSED CLEANER PLATFORM

B C2.0 SECTION 3/4" = 1'-0"
PROPOSED CLEANER PLATFORM



WATER SERVICE RISER DIAGRAM
NO SCALE



SCHEDULE

FD – 12" X 12" CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP AND CAST IRON STRAINER AND 4" DISCHARGE PIPE. JOSAM MODEL 37804-7 OR EQUAL.

HB – ¾" QUARTER TURN HOSE BIBB W/ VACUUM BREAKER WHERE REQUIRED BY BUILDING CODE, AMERICAN VALVE CO. MODEL M76QT OR EQUAL.

BALL VALVE – LEVER TYPE, QUARTER TURN VALVE, AMERICAN VALVE CO. MODEL G100 OR EQUAL.

SI – SAND INTERCEPTOR, 540 GALLON CAPACITY MINIMUM, JR SMITH MODEL 8811-250 OR EQUAL.

CO – 4" SANITARY CLEAN OUT, MAX SPACING = 75'

WASTE AND VENT RISER DIAGRAM
NO SCALE

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Florida Registration No. 77132

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4350 West Cypress Street, Suite 360 | Tampa, Florida 33607
P 813-357-3750

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1	5/30/2019
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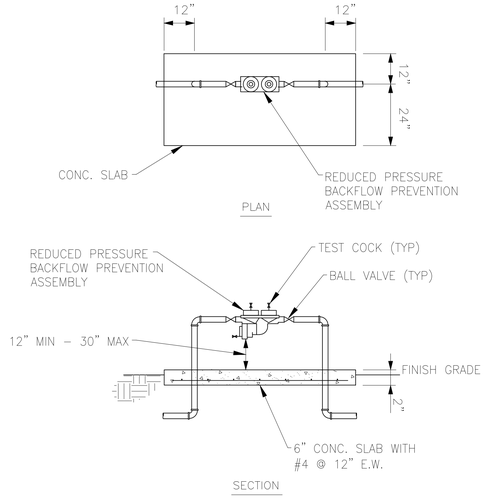
2	1/28/2020
	COMMENTS 01/17/20

DATE 8/20/19
DESIGN CRL | DRAWN CSS

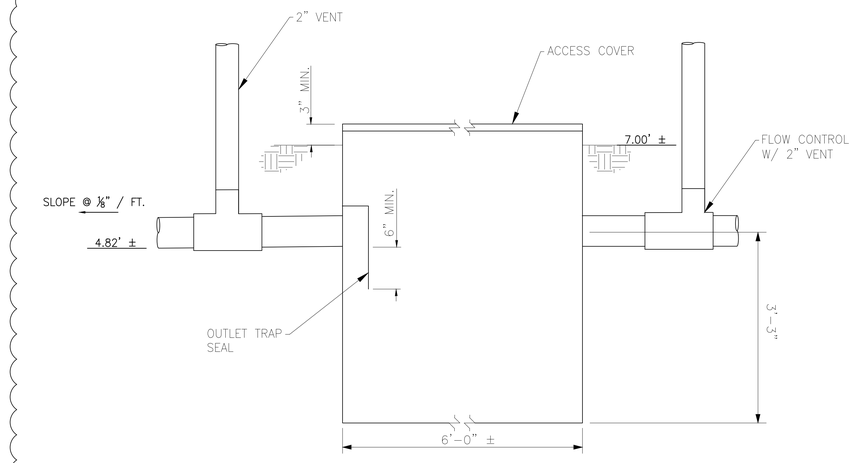
C2.0



NOTES:

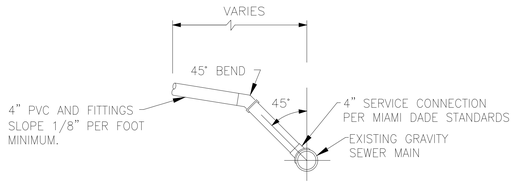
1. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
2. GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.
3. THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT.
4. ADJUSTABLE PIPE SADDLE SUPPORT (GRINNELL FIG. 264, OR EQUAL) SIZED TO FIT CURVATURE OF THE RPZA, WITH GALVANIZED STEEL PIPE AND FLOOR FLANGE, ATTACHED TO CONCRETE SLAB WITH GALVANIZED EXPANSION BOLTS.
5. THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE ASSEMBLY.
6. PIPING SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH FITTINGS. ALL PIPING SHALL BE IN ACCORDANCE WITH WASD CONSTRUCTION SPECIFICATIONS. PVC PIPE IS NOT ACCEPTED BY WASD.
7. ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS.
8. ALL ABOVE GROUND PIPING AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SHALL BE FINISHED WITH BLUE ENAMEL PAINT (KOP–COAT 0508 LEAD–FREE) IN ACCORDANCE WITH DEPARTMENT STANDARDS.
9. REFER TO WASD LIST (WS 4.18, SHEETS 4 AND 5 OF 5) OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
10. COPPER ALLOY MATERIALS SHALL BE "LEAD FREE" AND IN FULL COMPLIANCE WITH THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT".

BACKFLOW PREVENTER DETAIL N.T.S.

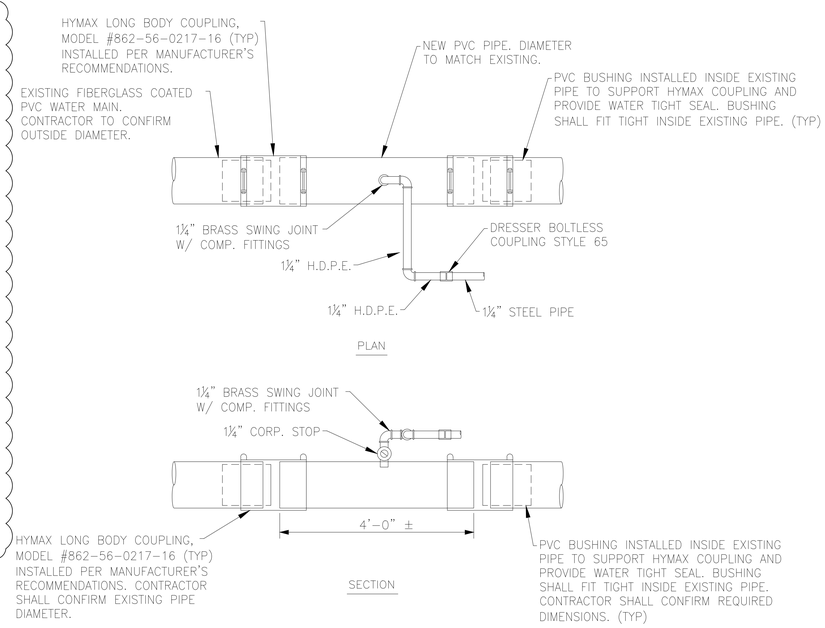


B / C3.0 SAND INTERCEPTOR N.T.S.

2

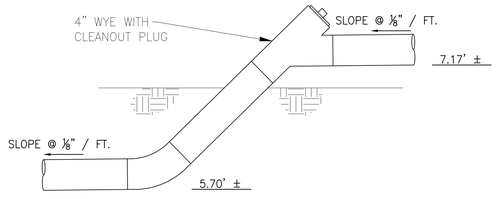


D / C3.0 SEWER SERVICE CONNECTION N.T.S.

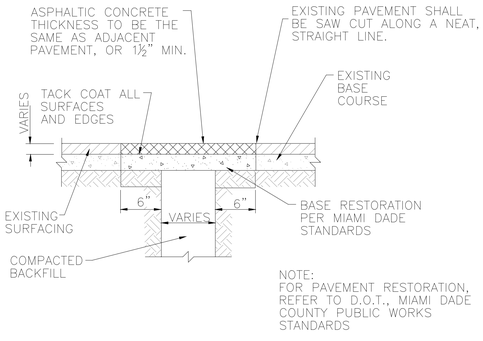


NOTE:
CONTRACTOR TO COORDINATE SERVICE CONNECTION WORK WITH OWNER. EXISTING PIPE IS FIBERGLASS COATED PVC THAT REQUIRES HYMAX COMPRESSION FITTINGS AND INTERNAL BUSHINGS TO PROVIDE WATER TIGHT SEAL.

C / C3.0 WATER SERVICE CONNECTION DETAIL N.T.S.

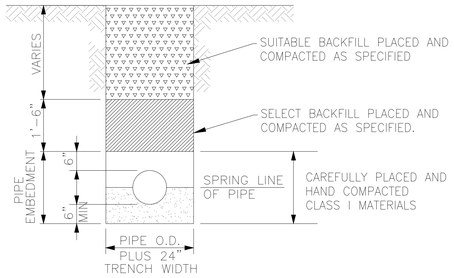


A / C3.0 DETAIL 1 1/2" = 1'-0"



NOTE:
FOR PAVEMENT RESTORATION, REFER TO D.O.T., MIAMI DADE COUNTY PUBLIC WORKS STANDARDS

E / C3.0 PAVEMENT RESTORATION N.T.S.



NOTES:
1. TRENCH CONSTRUCTION SHALL MEET MIAMI DADE STANDARDS.
2. CLASS I MATERIALS ARE ANGULAR, ¼ TO ¾ INCH WELL GRADED STONE INCLUDING WASHED AND GRADED LIMEROCK.
3. SHEETING AND SHORING, WHERE REQUIRED SHALL BE IN ACCORDANCE WITH MIAMI DADE SPECIFICATIONS.

F / C3.0 TYPICAL TRENCH DETAIL N.T.S.

GENERAL NOTES & SPECIFICATIONS:

1. THE "GENERAL CONDITIONS OF THE CONTRACT", CURRENT EDITION, PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL BE PART OF THIS CONTRACT.
2. IT IS NOT THE INTENT OF THESE PLANS AND SPECIFICATIONS TO SHOW EVERY AND ALL DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE INSTALLATION IN PROPER WORKING ORDER.
3. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
4. THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY ALL FEES CONNECTED WITH HIS WORK.
5. THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS.
6. CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTION IN WRITING TO THE ENGINEER, 10 WORKING DAYS PRIOR TO BIDDING DATE.
7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT AND MATERIALS. SUBMIT A MINIMUM OF FOUR SETS TO THE A/E.
8. THE CONTRACTOR SHALL TOUCH UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT OR INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED DURING THE PERFORMANCE OF THE WORK.
9. THE UTILITY INSTALLATION SHALL MEET THE APPROVAL OF THE GOVERNING AUTHORITY BEFORE ACCEPTANCE BY THE OWNER.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
11. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY THEIR WORK.
12. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
13. ALL PIPE AND MATERIALS SHALL MEET THE 2017 FLORIDA BUILDING CODE.
14. ANY VARIATION FROM THE PLANS ARE TO BE PREVIOUSLY APPROVED BY THE ENGINEER IN WRITING.
15. NO CUTTING OR DRILLING OF STRUCTURAL ITEMS SHALL BE DONE WITHOUT PRIOR WRITTEN APPROVAL FROM A LICENSED STRUCTURAL ENGINEER.
16. CONTRACTOR SHALL INCLUDE NECESSARY CUTTING, PATCHING AND RESTORATION OF ALL EXISTING SURFACES TO MATCH SURROUNDING AREAS.
17. TRENCHING, EXCAVATION AND BACKFILL SHALL MEET 2017 FLORIDA BUILDING CODE. SATISFACTORY FILL MATERIALS INCLUDE: MATERIALS CLASSIFIED IN ASTM D2487 AS GW, GP, SW AND SP PROPERLY WORKED BY CONTRACTOR TO OBTAIN OPTIMUM MOISTURE AND COMPACTION.
18. CONTRACTOR SHALL TEST ALL WATER AND SEWER LINES IN ACCORDANCE WITH CURRENT BUILDING CODE. SUBMIT COPIES OF TESTS AND RECORDS PERFORMED AS SPECIFIED TO A/E FOR REVIEW BEFORE STARTING WORK.
19. CONTRACTOR MUST COMPLY WITH OSHA, TRENCH SAFETY ACT, STANDARD 29 C.F.R.S. CHAPTER XVII, SUBPART P (PARA. 1926.650 THRU 1926.653)
20. PIPE BEDDING MATERIAL SHALL BE SELECTED OF SATISFACTORY BACKFILL AND FREE OF ANY ROCK OR STONES.
21. MATERIALS ENCOUNTERED DURING THE EXCAVATING TO THE DEPTH AND EXTENT SPECIFIED AND INDICATED ON DRAWINGS MAY INCLUDE ROCK, CONCRETE, MASONRY, OR OTHER SIMILAR MATERIALS. NO ADJUSTMENT WILL BE MADE IN THE CONTRACT PRICE BECAUSE THE PRESENCE (OR ABSENCE) OF THESE MATERIALS.
22. BRING BACKFILL UP EVENLY IN 6 INCH MAXIMUM LAYERS, LOOSE DEPTH AND THOROUGHLY AND CAREFULLY COMPACT WITH MECHANICAL OR HAND TAMPERS UNTIL PIPE HAS A MINIMUM COVER OF ONE FOOT. TAKE CARE NOT TO DAMAGE THE PIPE.
23. TRENCHES AND EXCAVATION PITS IMPROPERLY BACKFILLED OR WHERE SETTLEMENT OCCURS SHALL BE REOPENED TO THE DEPTH REQUIRED FOR PROPER COMPACTION, REFILLED AND COMPACTED, WITH THE SURFACE RESTORED TO THE SPECIFIED GRADE AND COMPACTION.
24. MATERIAL MAY BE COMPACTED BY A HAND TAMPER, A POWERED HAND TAMPER, A VIBRATING TAMPER, OR MECHANIZED POWER TAMPER PROVIDED SUCH COMPACTION PERCENTAGES MEET THE REQUIRED DENSITY AS SPECIFIED BELOW.
25. BACKFILLING AND COMPACTING BY MEANS OF HYDRAULIC METHODS WILL NOT BE ALLOWED.
26. COMPACT EACH LAYER TO NOT LESS THAN THE PERCENTAGES OF MAXIMUM DENSITY SPECIFIED BELOW. DETERMINED ACCORDING TO ASTM D1557 METHOD D:

FILLS AND BACKFILL	COHESIONLESS SOIL
UNDER SLABS AND PAVEMENT	98%
UNDER WALK AREAS, TOP 12 INCHES	95%
UNDER WALK AREAS, BELOW TOP 12 INCHES	90%
UNDER LANDSCAPE AREAS	85%
UNDER OTHER AREAS NOTED ON SITE PLAN	85%

27. LABORATORY TESTING OF MATERIALS FOR MOISTURE CONTENT AND DENSITY SHALL BE ACCORDING TO ASTM D1557, ONE TEST FOR EACH MATERIAL ENCOUNTERED OR PROPOSED TO BE USED.
28. FIELD TESTING FOR MOISTURE CONTENT AND DENSITY SHALL BE ACCORDING TO ASTM D1556, ONE TEST PER LAYER PER 100 LINEAR FEET OF DITCH.
29. IF ANY CONTAMINATED OR NON–NATURAL MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL STOP EXCAVATION IMMEDIATELY AND CONTACT A/E. PROPER DISPOSAL AND MITIGATION WILL OCCUR ONCE A SAMPLE OF THE CONTAINMENT IS IDENTIFIED BY QUALIFIED PERSONNEL.
30. REMOVAL OF WASTE. ALL EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED AT AN APPROVED FACILITY.

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Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

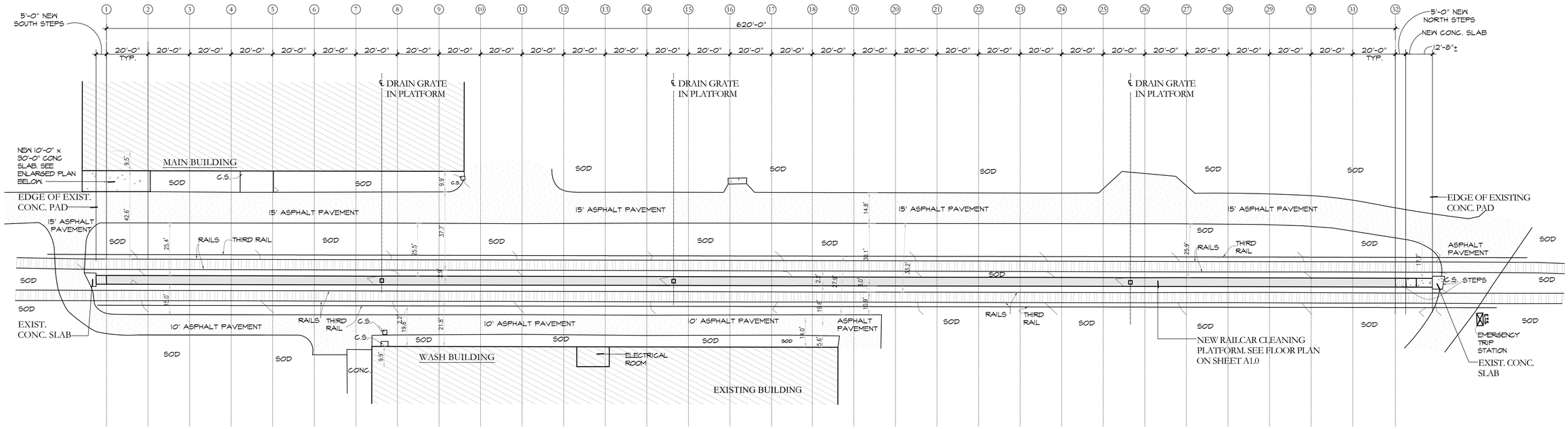
PROJECT NO.
LA16011

REVISIONS	
1	5/30/2019
	ADDED SHEET
2	01/28/2020
	COMMENTS 01/17/20

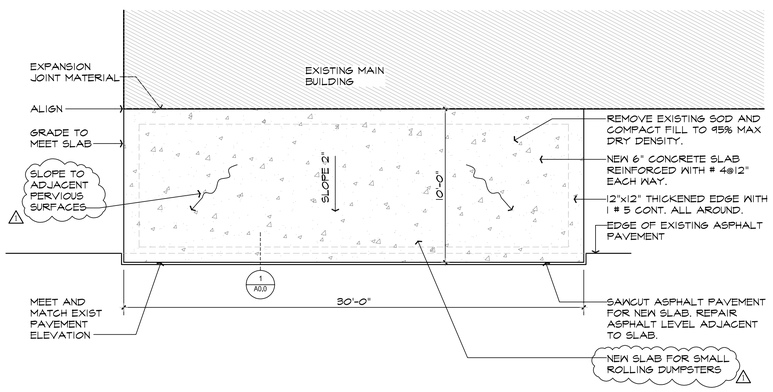
DATE 8/20/19
DESIGN CRL | DRAWN CSS

C3.0

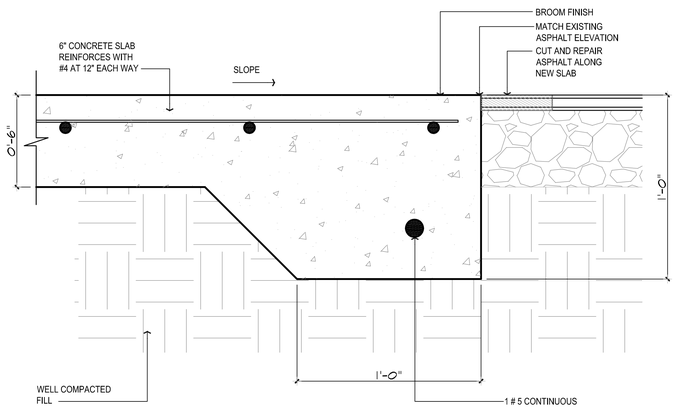
3 OF 3



N SITE PLAN 1" = 20'



N ENLARGED PLAN 1/4" =1'-0"
NEW DUMPSTER SLAB



1 A0.0 DETAIL 3" =1'-0"
SEE STRUCTURAL NOTES ON SHEET S-0.0 FOR MATERIAL SPECIFICATIONS.

S E A L

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Planning
Graphic Design
LA00003517

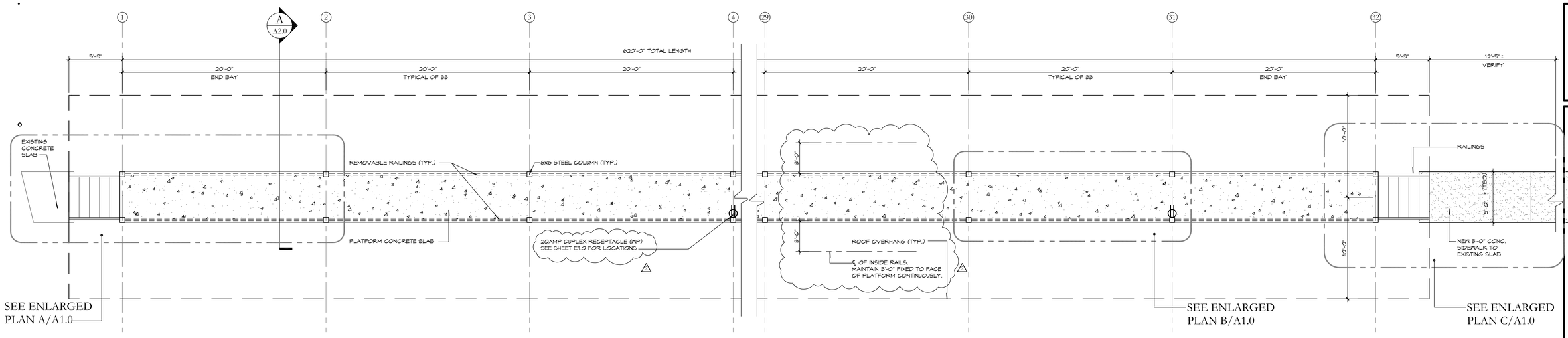
Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

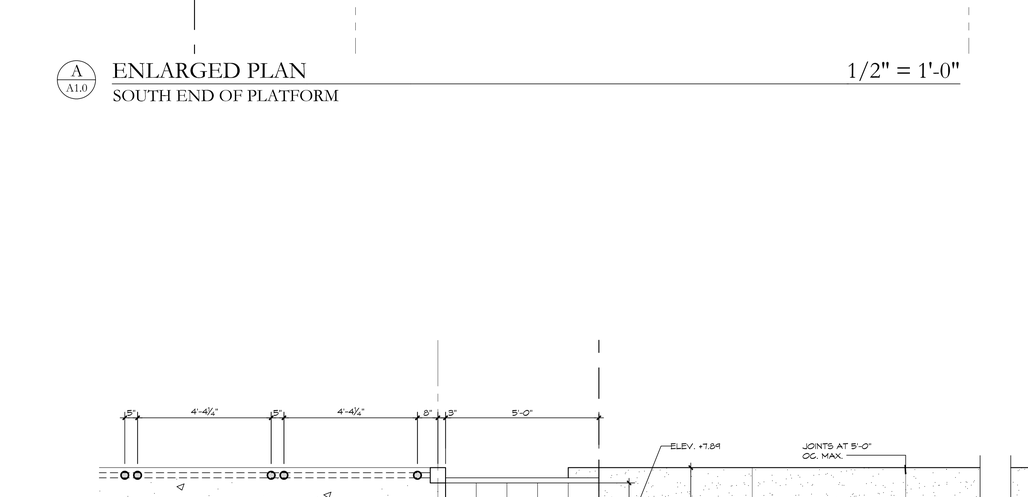
REVISIONS
1 PERMIT 10/24/17

DATE 6/14/17
DESIGN OLL DRAWN GBS

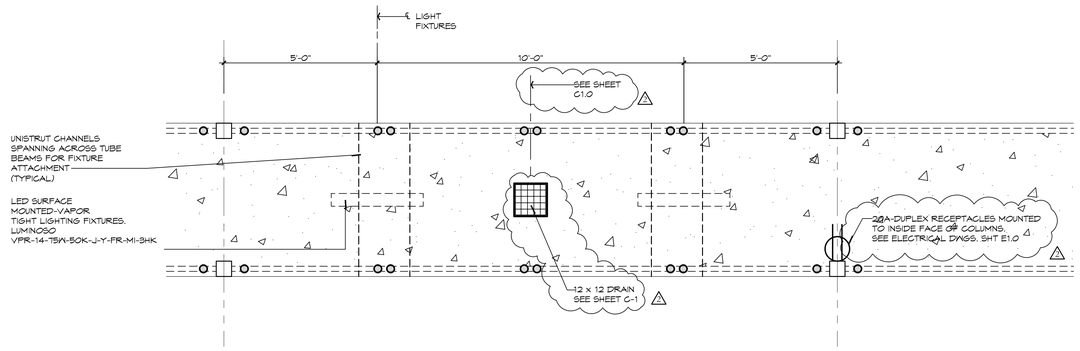
A0.0



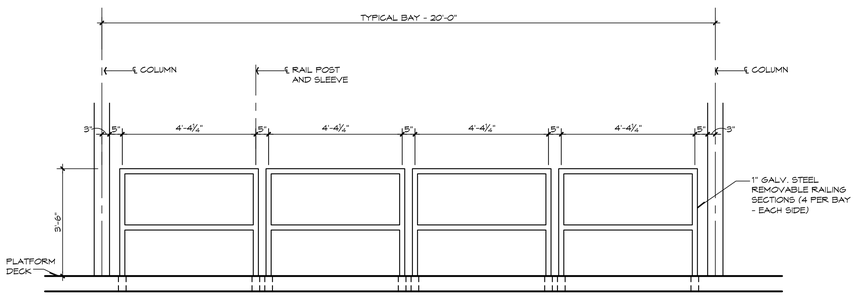
N FLOOR PLAN 1/4" = 1'-0"



A A1.0 ENLARGED PLAN 1/2" = 1'-0"
SOUTH END OF PLATFORM



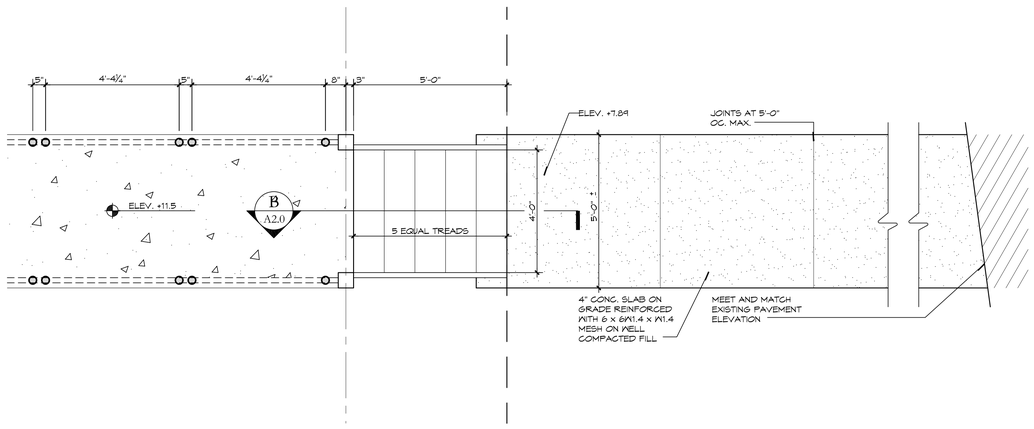
B A1.0 ENLARGED PLAN 1/2" = 1'-0"
TYPICAL BAY



ELEVATION 1/2" = 1'-0"
TYPICAL BAY - REMOVABLE RAILINGS - BOTH SIDES

ALL STEEL SURFACES SHALL BE PAINTED

DETAIL DELETED



C A1.0 ENLARGED PLAN 1/2" = 1'-0"
NORTH END OF PLATFORM

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Roofing / Consultation
Planning
Graphic Design
AA0003517

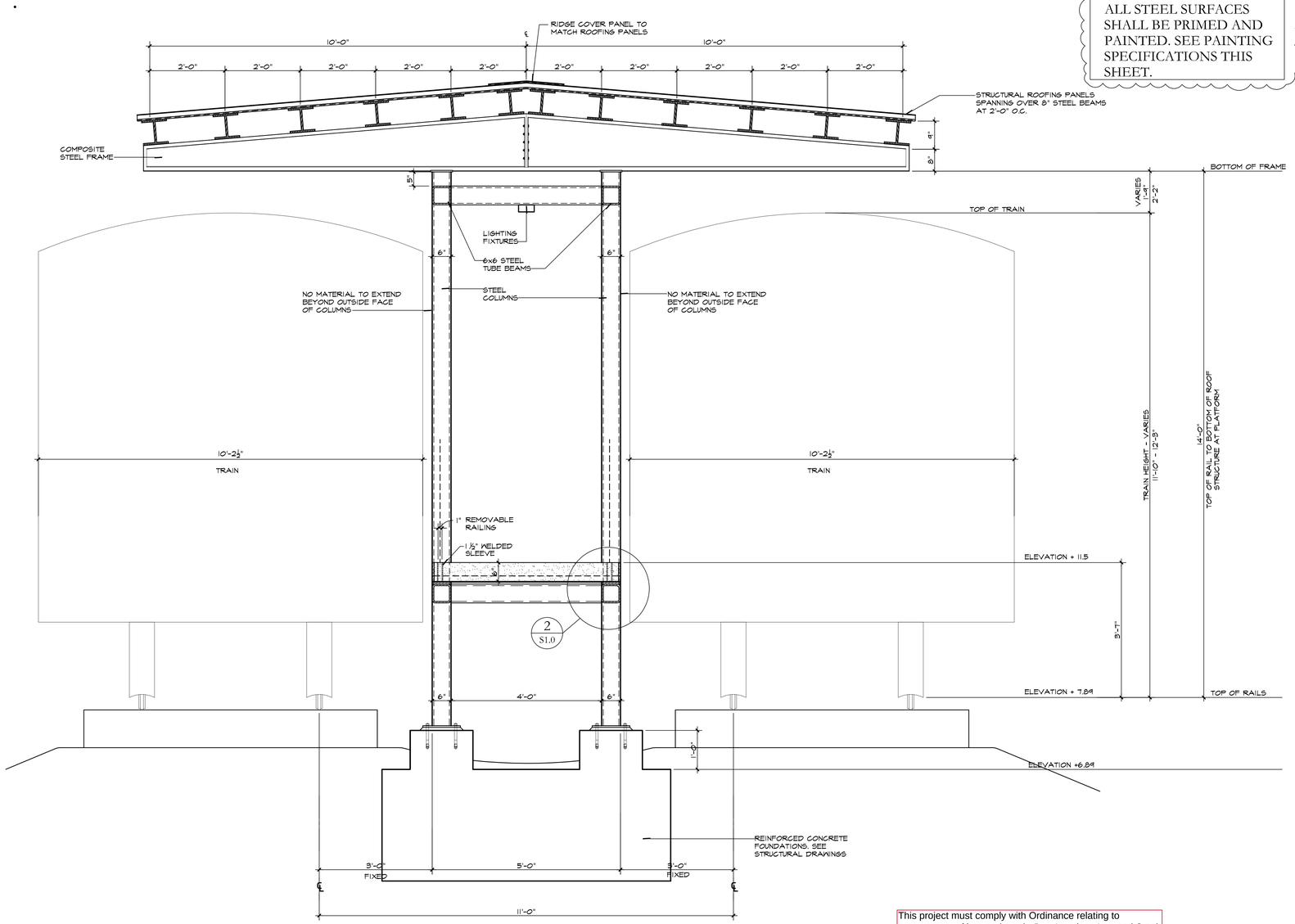
Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

REVISIONS
1 PERMIT 10/24/17
2 REV 5/30/19

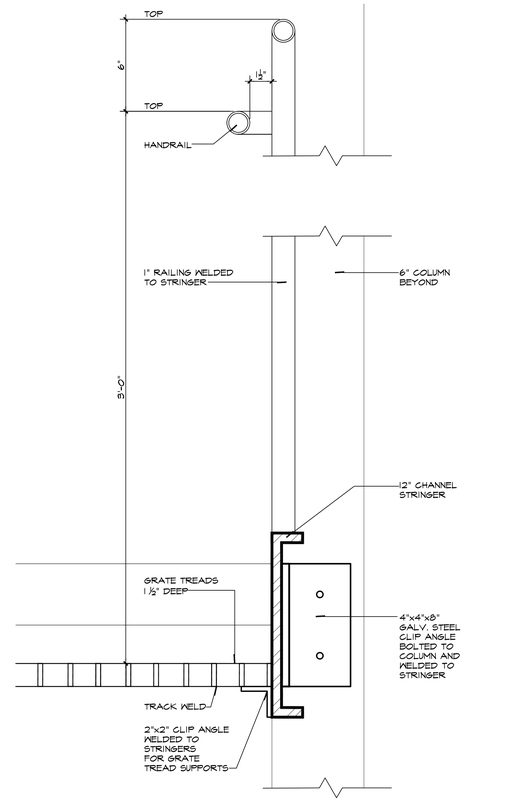
DATE
6/14/17
DESIGN OLL
DRAWN GBS

A1.0



A A2.0 SECTION 3/4" = 1'-0"
PROPOSED CLEANER PLATFORM

ALL STEEL SURFACES SHALL BE PRIMED AND PAINTED. SEE PAINTING SPECIFICATIONS THIS SHEET. ⚠



C A2.0 SECTION 3" = 1'-0"

This project must comply with Ordinance relating to procurement of iron and steel - Buy American Iron and Steel Products procurement program

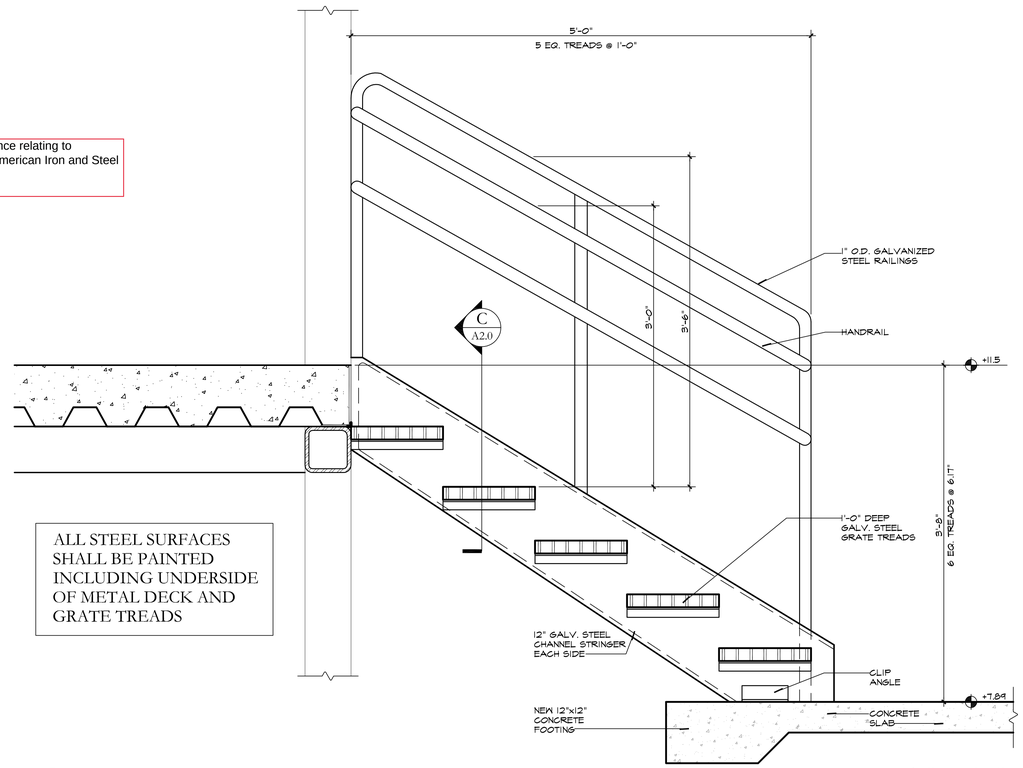
ARCHITECTURAL NOTES AND SPECIFICATIONS

A. PIPE RAILINGS: GALVANIZED STEEL PIPE, SCHEDULE 40, DIAMETER AS NOTED, NOMINAL, FABRICATE TO SIZES AND CONFIGURATIONS INDICATED WITH SHOP-WELDED JOINTS. PIPE CUTS SHALL BE SQUARE AND ACCURATE. TOP RAILS SHALL BE CONTINUOUS WHENEVER POSSIBLE. PROVIDE A SHOP APPLIED RUST-INHIBITIVE PRIMER AND FIELD PAINT FINISH.
SUBMIT SHOP DRAWINGS FOR APPROVAL.

B GRATING SHALL BE QUALITY WELDED BAR GRATING, HOT DIPPED GALVANIZED, GW 150-2 SMOOTH, FULLY WELDED CONSTRUCTION, 1-1/2" X 1/8" BEARING BARS 1-3/16" ON CENTERS WITH CROSS BARS AT 4" ON CENTERS MAXIMUM. GRATINGS SHALL BE MEASURED AND CUT TO EXACT SIZED REQUIRED AND SHALL BE FITTED WITH AN EDGING BAR OF MATCHING SIZE.

C. STRUCTURAL METAL ROOFING: NUCOR - AMERICAN BUILDINGS STANDING SEAM 360, 22 GAUGE, STRUCTURAL METAL ROOFING PANELS, 0.30" MINIMUM GALVALUME, MIAMI-DADE NOA NO. 17.0501.05. STANDARD 24-INCH PANELS WITH SCPC-1 CONCEALED CLIPS. PROVIDE FASTENING, ACCESSORIES, SEALANTS AND FLASHINGS TO MATCH AND INSTALLATION IN ACCORDANCE WITH THE NOTICE OF ACCEPTANCE AND MANUFACTURERS WRITTEN RECOMMENDATIONS. FINISH SHALL BE KYNAR 500, COLOR TO BE WHITE. SUBMIT MANUFACTURER'S DATA, SHOP DRAWINGS AND SAMPLE PANEL FOR APPROVAL. ⚠

D. PAINTING: ALL METAL SURFACES NOT FACTORY FINISHED SHALL BE PRIMED AND PAINTED. PAINT PRODUCTS SHALL BE SHERWIN WILLIAMS OR APPROVED EQUAL. STEEL SHALL BE CLEANED AND SURFACES PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS. APPLY TO MINIMUM WET THICKNESS RECOMMENDED USING APPLICATION METHODS RECOMMENDED. COATING SYSTEM SHALL BE AS FOLLOWS:
PRIMER: MACROPOXY 646 FAST CURE EPOXY-PART A-MILL WHITE (ONE-PART)
TOPCOAT: POLYLON HP POLYURETHANE (TWO-PART)-EXTRA WHITE.
SUBMIT DATA SHEETS FOR APPROVAL.



ALL STEEL SURFACES SHALL BE PAINTED INCLUDING UNDERSIDE OF METAL DECK AND GRATE TREADS

B A2.0 SECTION 1 1/2" = 1'-0"
STAIRS AT ENDS

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REVISIONS
⚠ REVISIONS 11/27/17

DATE
6/14/17
DESIGN OLL DRAWN GBS

A2.0

5 OF 5

CODES & STANDARDS

THE FOLLOWING CODES ARE USED IN THE DESIGNS AND SPECIFICATIONS FOR THIS PROJECT:

FBC 2014	FLORIDA BUILDING CODE, BUILDING
SEI/ASCE 7-10	AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
AISC, 13TH EDITION	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION
ACI 318	AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

DESIGN CRITERIA:

1. DESIGN LOADS:
   - A. WIND LOAD PER ASCE 7-10:
     - A.1. WIND VELOCITY, V = 175 MPH
     - A.2. BLDG. CAT. II
     - A.3. EXPOSURE C
   - B. ROOF:
     - B.1. LIVE LOAD = 30 PSF
     - B.2. DEAD LOAD = 5 PSF
   - C. FLOOR:
     - C.1. LIVE LOAD = 60 PSF (ASCE 7-10, T 4-1 - WALKWAYS & ELEVATED PLATFORMS)
     - C.2. DEAD LOAD = 40 PSF
2. MATERIALS:
   ALL MATERIALS SHALL BE NEW, FREE OF DEFECT OR DAMAGE, AND CONFORM TO THE FOLLOWING SPECIFICATIONS:
   - 2.0 STRUCTURAL STEEL:
     - 2.0.1. W SHAPES - ASTM A992
     - 2.0.2. HSS - ASTM A500, GR. B
     - 2.0.3. PIPE ASTM A53, GR. B
     - 2.0.4. COMPOSITE STEEL DECK - ASTM A653 GR. 50 OR A1008 GR.50
     - 2.0.5. PLATES AND BARS - ASTM A36
     - 2.0.6. BOLTS - ASTM A325
     - 2.0.7. ANCHOR RODS - F1554 GR. 36
     - 2.0.8. NUTS - ASTM A563
     - 2.0.9. WASHERS - ASTM F436
     - 2.0.10. THREADED RODS - A36
     - 2.0.11. SHEAR STUDS - A36
     - 2.0.12. WELDS - E70XX ELECTRODE
   - 2.1. NORMAL WT. CONCRETE - ACI 318-11, 28-DAY MIN. COMPRESSIVE STRENGTH AS FOLLOWS:
     - 2.1.1. FOOTINGS & GRADE BEAMS ----- 5,000 PSI
     - 2.1.2. STRUCTURAL SLABS ------------ 3,000 PSI
   - 2.2. REINFORCING STEEL - CARBON STEEL: ACI 318-11, ASTM A 615, GR. 60
   - 2.3. WELDED WIRE REINFORCEMENT FABRIC (WWF) - ASTM A185 AND ASTM A1064
   - 2.4. GROUT - ASTM C460 (3,000 PSI) U.N.O.
   - 2.5. ANCHOR BOLTS - ASTM A307, HOT-DIPPED GALVANIZED (HDG)

GENERAL NOTES:

1. THESE PLANS ARE FOR CONSTRUCTION AT THE LOCATION SO DESIGNATED HEREIN.
2. NO CHANGES IN THE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
3. ANY CONFLICTS BETWEEN DRAWINGS SHALL BE GOVERNED BY THE MOST STRINGENT APPLICABLE.
4. ANY AND ALL APPLICABLE CODES, ALL OR IN PART, APPLIED TO THESE DRAWINGS SHALL BE IMPLEMENTED AS REQUIRED. ALL REFERENCES AND/OR REQUIREMENTS SHALL APPLY AS DETAILED IN THE DRAWINGS.
5. ANY CHANGES MADE PRIOR TO APPROVAL BY OWNER AND ENGINEER ARE DISALLOWED AS EXTRAS AND THE CONTRACTOR MAY BE REQUIRED TO RESTORE TO PLANS.
6. ANY ERRORS, OMISSIONS, AND AMBIGUITIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR CORRECTIONS PRIOR TO COMMENCEMENT OF WORK.
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST FLORIDA BUILDING CODE, FEDERAL, STATE AND LOCAL ORDINANCES, INDUSTRY CODES AND STANDARDS, AND SUBJECT TO LOCAL AUTHORITIES HAVING JURISDICTION.
8. ALL MATERIALS SHALL BE INSPECTED UPON RECEIPT FOR CONFORMANCE TO THE DESIGN DRAWINGS AND ANY DAMAGE SHALL BE DOCUMENTED.
9. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS TO LOCATE ALL SLAB DEPRESSIONS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, SLEEVES, ETC.
10. THE ENGINEER OF RECORD SHALL BE INVITED TO PARTICIPATE IN THE PRE-JOB BRIEF PRIOR TO INSTALLATION OF ALL STRUCTURAL SYSTEMS.
11. SPACE SHALL NOT BE USED OR OCCUPIED UNTIL FINAL INSPECTION BY AND APPROVAL OF THE ENGINEER OF RECORD.

CONTRACTOR'S RESPONSIBILITIES:

1. CONTRACTOR SHALL READ, UNDERSTAND, AND COMPLY WITH ALL NOTES, CALLOUTS, ANNOTATIONS, AND OTHER COMMENTS HEREIN.
2. CONTRACTOR SHALL BE KNOWLEDGEABLE, PROPERLY LICENSED AND MUST BE RELIED UPON TO ACHIEVE PROPER INSTALLATION OF MATERIALS, WEATHER SEALING, MATERIAL TRANSITIONS, SEPARATIONS, CONNECTIONS, ETC.
3. CONTRACTOR SHALL PROVIDE FOR THE SAFETY AND PREVENTION OF INJURY AT THE JOB SITE TO ALL PERSONS EMPLOYED ON THE WORK, PERSON VISITING THE WORK, AND THE GENERAL PUBLIC. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PROPERTY AT THE SITE OR ADJACENT THERETO.
4. CONTRACTOR SHALL REVIEW, CHECK, AND VERIFY ALL PLANS, DIMENSIONS, AND SITE CONDITIONS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, UNSAFE CONDITIONS, OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, STANDARDS, AND PROPER INSTALLATION OF ALL SYSTEMS, STRUCTURES, AND COMPONENTS.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL BEFORE FABRICATION OR ERECTION OF ANY STRUCTURAL SYSTEM.
6. CONTRACTOR SHALL DO ALL WORK IN STRICT CONFORMANCE TO THE PLANS, STANDARD BUILDING CODE, LOCAL CODES & ORDINANCES, MANUFACTURER'S RECOMMENDATIONS, AND ACCEPTABLE TRADE PRACTICES. FOR ANY CONFLICTS BETWEEN THE ABOVE MENTIONED, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN THE DESIGN.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS. ANY INFORMATION THAT CANNOT BE OBTAINED FROM THE DIMENSIONS, DETAILS, OR SCHEDULES SHALL BE OBTAINED FROM THE ENGINEER OF RECORD.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING JOB COPIES OF CONSTRUCTION DOCUMENTS WITH ANY REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS, AND CLARIFICATIONS SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.
9. CONTRACTOR SHALL FURNISH ALL SUBCONTRACTORS WITH A COMPLETE SET OF UPDATED PLANS.
10. CONTRACTOR SHALL COMPLY WITH ALL FIELD STORAGE, HANDLING, INSTALLATION, BRACING, ANCHORAGE, AND FIELD ASSEMBLY REQUIREMENTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.
12. CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES OF EVERY KING, INCLUDING WATER AND POWER NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHOWN OR INDICATED ON THESE DRAWINGS.
13. CONTRACTOR IS RESPONSIBLE & SOLELY ACCOUNTABLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND COORDINATION OF ALL WORK PERFORMED.
14. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING NECESSARY TO ENSURE A STABLE STRUCTURE DURING CONSTRUCTION.
15. ALL WORK PERFORMED SHALL BE COMPLETED TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY JOURNEYMEN OF THE RESPECTIVE TRADES.
16. CONTRACTOR SHALL ADEQUATELY PROTECT ALL WORK, ADJACENT PROPERTY, AND THE PUBLIC FROM ALL DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
17. THE APPROVAL OF ANY WORK BY ANY INSPECTOR DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STRUCTURAL DRAWINGS.
18. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION UNLESS SPECIFICALLY CONTACTED FOR THE INSPECTION AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT UNDER A SEPARATE CONTRACT.
19. CONTRACTOR SHALL KEEP THE JOB SITE FREE FROM ACCUMULATION OF WASTE MATERIALS AND DEBRIS, AND AT THE END OF THE JOB THE CONTRACTOR SHALL REMOVE ALL RUBBISH, SURPLUS MATERIALS, AND LEAVE THE BUILDING BROOM CLEAN.

SHOP DRAWING SUBMITTALS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW A MINIMUM OF TWO WEEKS BEFORE FABRICATION OR ERECTION OF ANY STRUCTURAL SYSTEM. ALL SHOP DRAWINGS MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ANY FABRICATION OR ERECTION.
2. REVIEW OF SHOP DRAWINGS BY THE ENGINEER OF RECORD IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERCEDE THE STRUCTURAL DRAWINGS. REVIEW WILL NOT INCLUDE CHECK OF DIMENSIONS OR QUANTITIES.
3. REVIEW OF SHOP DRAWINGS IS NOT CONDUCTED FOR DETERMINING THE ACCURACY AND COMPLETENESS OF DETAILS OR FOR SUBSTANTIATING FABRICATION, INSTALLATION INSTRUCTIONS, OR PERFORMANCE, ALL OF WHICH SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. SHOP DRAWINGS REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD ARE AS FOLLOWS:
   - 4.1. CONCRETE TEST REPORTS FOR CAST-IN-PLACE CONCRETE AS PER ACI 301 AND 318
   - 4.2. REINFORCING STEEL SHOP DRAWINGS
   - 4.3. PREFABRICATED WOOD AND OR METAL FLOOR AND ROOF TRUSSES, ERECTION DRAWINGS, CALCULATIONS, AND DESIGN DATA
   - 4.4. STRUCTURAL STEEL SHOP DRAWINGS AND ERECTION DRAWINGS AND CALCULATIONS AS REQ'D.
   - 4.5. SHORING AND RESHORING SHOP DRAWINGS AND CALCULATIONS
   - 4.6. RAILING AND GUARDRAIL SHOP DRAWINGS, CALCULATIONS, AND DESIGN DATA
5. SHOP DRAWINGS REQUIRING ENGINEERING BY A DELEGATED ENGINEER (SPECIALTY ENGINEER) SHALL COMPLY WITH THE FOLLOWING:
   - 5.1. THE SPECIALTY ENGINEER SHALL BE A FLORIDA LICENSED PROFESSIONAL ENGINEER.
   - 5.2. THE SPECIALTY ENGINEER SHALL HAVE AT LEAST FIVE YEARS OF SOLID PROFESSIONAL DESIGN EXPERIENCE IN THE DESIGN AND DETAILING OF THE STRUCTURAL COMPONENT AND/OR STRUCTURAL SYSTEM BEING SUBMITTED FOR APPROVAL.
   - 5.3. THE SPECIALTY ENGINEER SHALL BE AN EMPLOYEE OR OFFICER OF A FABRICATOR OR COMPANY SUPPLYING COMPONENTS TO THE FABRICATOR.
   - 5.4. ALL SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERCEDED BY THE STRUCTURAL DRAWINGS IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
   - 5.5. THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD WITH THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THESE STRUCTURAL DRAWINGS SHALL NOT BE USED TO PRODUCE SHOP DRAWINGS WITHOUT PRIOR EXPRESSED WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
   - 5.6. SHOP DRAWINGS RE-SUBMITTED FOR APPROVAL SHALL BE CLEARLY CLOUDED AND NOTED. RE-REVIEW SHALL BE LIMITED TO THOSE ITEMS WHICH CAUSED THE RE-SUBMITTAL.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS REQUIRED BY THE FLORIDA BUILDING CODE SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER.
2. THE QUALIFICATIONS FOR THE SPECIAL INSPECTOR SHALL INCLUDE LICENSURE AS A PROFESSIONAL ENGINEER OR ARCHITECT, GRADUATION FROM AN ENGINEERING EDUCATION PROGRAM IN CIVIL OR STRUCTURAL ENGINEERING, GRADUATION FROM AN ARCHITECTURAL EDUCATION PROGRAM, SUCCESSFUL COMPLETION OF THE NCEES FUNDAMENTALS EXAMINATION, OR REGISTRATION AS BUILDING INSPECTOR OR GENERAL CONTRACTOR. SPECIAL INSPECTORS UTILIZING AUTHORIZED REPRESENTATIVES SHALL INSURE THE AUTHORIZED REPRESENTATIVE IS QUALIFIED BY EDUCATION AND LICENSURE TO PERFORM THE DUTIES ASSIGNED BY THE SPECIAL INSPECTOR.
3. A SPECIAL INSPECTOR'S INSPECTION LOG MUST BE DISPLAYED IN A CONVENIENT LOCATION ON THE SITE FOR REFERENCE BY THE BUILDING INSPECTORS.
4. ALL MANDATORY INSPECTIONS, AS REQUIRED BY THE FLORIDA BUILDING CODE, MUST BE PERFORMED BY THE COUNTY. THE INSPECTIONS FROM THE BUILDING DEPARTMENT MUST BE CALLED FOR ON ALL MANDATORY INSPECTIONS. INSPECTIONS PERFORMED BY THE SPECIAL INSPECTOR HIRED BY THE OWNER ARE IN ADDITION TO THE MANDATORY INSPECTIONS PERFORMED BY THE BUILDING DEPARTMENT.
5. UPON COMPLETION OF THE WORK UNDER EACH BUILDING PERMIT, A COMPLETED INSPECTION LOG FORM AND SEALED STATEMENT OF COMPLIANCE TO THE BUILDING INSPECTOR SHALL BE SUBMITTED AT THE TIME OF FINAL INSPECTION AND BEFORE MAKING APPLICATION FOR CERTIFICATE OF OCCUPANCY THE STATEMENT OF COMPLIANCE SHALL STATE THAT TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT THAT PORTIONS OF THE PROJECT OUTLINED FOR THE SPECIAL INSPECTION MEETS WITH THE INTENT OF THE FLORIDA BUILDING CODE AND ARE COMPLETED IN SUBSTANTIAL ACCORDANCE WITH THE APPROVED PLANS.

REQUESTS FOR INFORMATION (RFI):

1. RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
2. RFI SHALL BE SUBMITTED IN A PROMPT MANNER SO AS TO AVOID DELAYS IN CONTRACTOR'S WORK.
3. ENGINEER SHALL TAKE UP TO FIVE (5) BUSINESS DAYS TO REVIEW AND RETURN EACH RFI. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF EACH RFI WITHIN A REASONABLE TIME FRAME.
4. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY OF THE APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, COST IMPACTS, OR ADJUSTMENTS. IF CONTRACTOR REQUESTS ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN WRITING BY THE OWNER OR PROJECT REPRESENTATIVE.

DEMOLITION NOTES:

1. CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING STRUCTURES AND EQUIPMENT AS SHOWN IN THE DRAWINGS AND AS REQUIRED FOR NEW CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED, TO STRUCTURAL FOUNDATIONS, CONCRETE SLABS AND OTHER APPURTENANCES ABOVE AND/OR BELOW GROUND AS MAY BE REQUIRED TO COMPLETELY CLEAN THE SITE.
2. CONTRACTOR SHALL STRIP THE SITE OF ALL DEBRIS, OBJECTIONABLE GROWTH OF MATERIALS, AND PREPARE THE SITE AS MAY BE REQUIRED FOR NEW CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS FOR EXACT EXTENT OF DEMOLITION AND NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONFLICTS THAT MAY HAVE BEEN AVOIDED THEREBY.
4. ITEMS TO BE REMOVED IN DEMOLITION AREAS ARE TO BE VERIFIED BY SITE INSPECTION. IT IS THE INTENT TO REMOVE ALL FURNISHING AND FIXTURES AS REQUIRED TO PREPARE THE AREAS FOR CONSTRUCTION. IF ANY EQUIPMENT TO BE REMOVED IS NOT SHOWN, IT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF REMOVING SUCH EQUIPMENT.
5. CONTRACTOR IS TO USE ADEQUATE MEANS AND METHODS OF DEMOLITION AND REMOVAL FOR THE TYPE OF WORK PERFORMED.
6. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE REGARDING THE TEMPORARY STORAGE OF EQUIPMENT AND MATERIALS DURING CONSTRUCTION.
7. PERFORM ALL DEMOLITION NECESSARY FOR NEW WORK TO ACCOMPLISH INTENT AS EXPRESSED IN THE CONTRACT DOCUMENTS AS A WHOLE TO THE ENGINEER'S SATISFACTION.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A TRASH/DEBRIS REMOVAL SERVICE FOR ALL TRADES AND ALL WORK RELATING TO THE PROJECT.

FORMING, SHORING AND RESHORING

1. FORMING, SHORING AND RESHORING DRAWINGS SHALL BE PREPARED BY A STATE OF FLORIDA REGISTERED SPECIALTY ENGINEER WITH EXPERIENCE IN SHORING AND RESHORING DESIGN AND DETAILING.
2. SHORING AND RESHORING DRAWINGS SHALL INCLUDE AT LEAST THE FOLLOWING ITEMS
   - 2.1. LOCATION, SIZE, TYPE, AND CAPACITY OF ALL SHORING.
   - 2.2. LOCATION, SIZE, TYPE, AND CAPACITY OF ALL RESHORING.
   - 2.3. LOCATION, SIZE, AND TYPE OF ALL MUDSILLS, BLOCKING, TEMPORARY LATERAL BRACING AND OTHER ACCESSORIES REQUIRED TO ADEQUATELY AND SAFELY SUPPORT AND BRACE THE STRUCTURE DURING CONSTRUCTION.
   - 2.4. INSTALLATION PROCEDURE, SEQUENCE OF INSTALLATION, LOAD RELIEF AND REMOVAL OF ALL SHORING AND RESHORING..
3. SHORING AND RESHORING SUBMITTAL FOR APPROVAL SHALL INCLUDE AT LEAST TWO COPIES FOR THE BUILDING DEPARTMENT, ONE FOR THE ENGINEER OF RECORD, ONE FOR THE THRESHOLD INSPECTOR AND ONE FOR THE ARCHITECT.
4. DESIGN, DETAIL, AND ERECT FORMS, SHORING AND RESHORING SHALL BE IN COMPLIANCE WITH ACI 347, PROJECT SPECIFICATIONS, AND THESE NOTES.
5. FORMS, SHORING AND RESHORING SHALL BE DESIGNED FOR THE WEIGHT OF THE FLOOR OR ROOF, A CONSTRUCTION LOAD OF 50 PSF, AND FOR THE CUMULATIVE LOADS OF THE SUPPORTED HORIZONTAL CONCRETE MEMBERS. USE A DESIGN FACTOR OF SAFETY OF 3 FOR WOOD SHORES AND 2 FOR METAL SHORES.
6. PRIOR TO EACH CONCRETE PLACEMENT, THE SHORING AND RESHORING SHALL BE INSPECTED AND CERTIFIED IN WRITING BY THE SPECIALTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE TO ENSURE COMPLIANCE WITH THE DESIGN.
7. NO LOAD SHALL BE APPLIED TO ANY MEMBER UNTIL THE CONCRETE IS A MINIMUM OF 14 DAYS OLD AND THE 7 DAY STRENGTH IS AT LEAST 70% OF THE SPECIFIED 28 DAY STRENGTH.
8. FORMS MAY BE REMOVED 72 HOURS AFTER CONCRETE POUR PROVIDED THAT THE CONCRETE STRENGTH IS 70% OF THE SPECIFIED 28 DAY STRENGTH AND NOT LESS THAN 70% OF THE SPECIFIED 28 DAY STRENGTH. RESHORE EACH PAY IMMEDIATELY AFTER FORMS ARE STRIPPED AND REMOVED. REMOVAL OF FORMS IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. REMOVAL OF FORMS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO NOT DAMAGE THE STRUCTURE,ENSURE SAFETY, AND PREVENT CREEP DEFLECTION OF STRUCTURAL MEMBERS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WITH COMMENTARY. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL STEEL DETAILER TO DESIGN AND DETAIL ANY CONNECTION NOT DETAILED ON DRAWINGS BASED ON LOADS PROVIDED.
3. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED INCLUDING BOLTS, NUTS, AND WASHERS.
4. SPLICING OF STEEL MEMBERS IS NOT ALLOWED UNLESS SPECIFIED IN STRUCTURAL DRAWINGS OR AS APPROVED BY THE ENGINEER OF RECORD.
5. FRAMES SHALL BE CARRIED UP TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED TO TAKE CARE OF ALL LOAD TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING EQUIPMENT AND OPERATION OF SAME. SUCH BRACING SHALL BE THE RESPONSIBILITY OF THE STEEL CONTRACTOR AND SHALL BE IN PLACE AS LONG AS REQUIRED FOR SAFETY.
6. ALL HSS AND PIPE STRUCTURAL STEEL SHALL HAVE 1/4" ø WEEP HOLES ON INSIDE FACE 3" FROM TOP AND BOTTOM
7. ALL BOLTS, NUTS, AND WASHERS SHALL BE NEW, RUST-FREE, AND WELL LUBRICATED.
8. ALL BOLTS SHALL BE PROVIDED WITH HARDENED WASHERS.
9. BOLT HOLES SHALL BE SHOP DRILLED, CUT, OR PUNCHED PERPENDICULAR TO METAL SURFACE. DO NOT FLAME CUT HOLES OR ENLARGE HOLE BY BURNING.
10. ALL SHOP CONNECTIONS SHALL BE WELDED U.N.O.
11. ALL WELDING IS TO BE PERFORMED BY AWS CERTIFIED WELDERS REGISTERED IN THE STATE OF FLORIDA AND SHALL BE PERFORMED IN CONFORMANCE TO THE CURRENT RECOMMENDATIONS OF AISC AND THE AMERICAN WELDING SOCIETY (AWS). SUBMIT WELDER CERTIFICATES TO THE ENGINEER OF RECORD FOR APPROVAL BEFORE ANY SHOP FOR FIELD WELDING IS STARTED.
12. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS D1.1, LATEST EDITION. PROVISIONS SHALL BE MADE FOR FIELD INSPECTION AND TESTING OF WELDS.
13. ALL SHOP WELDS SHALL BE TESTED BY NON-DESTRUCTUIVE METHODS AND SHALL BE CERTIFIED. ALL SHOP CONNECTION SHALL BE HIGH STRENGTH BOLTED OR WELDED.
14. ALL FIELD CONNECTIONS SHALL BE INSPECTED BY A SPECIAL INSPECTOR AS REQUIRED BY THE FLORIDA BUILDING CODE.
15. FIRE PROOFING OF STRUCTURAL STEEL SHALL BE INSTALLED AS REQ'D.
16. STRUCTURAL STEEL WELDED AND BOLTED CONNECTIONS SHALL BE INSPECTED BY A SPECIAL INSPECTOR AS PER FBC R4408.5.2.

REINFORCING STEEL:

1. REINFORCING FABRICATOR SHALL PROVIDE SHOP DRAWINGS INDICATING STEEL FABRICATION IN CONFORMANCE WITH APPLICABLE ACI STANDARDS.
2. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318.
3. ALL TOP REINFORCING STEEL SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.
4. ALL BOTTOM BARS SHALL BEAR 6" MIN. OVER SUPPORTS U.N.O.
5. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 30 DIA. AT SPLICES AND CORNERS U.N.O. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS U.N.O.
6. BEAM INTERMEDIATE BARS SHALL BE HOOKED AT DISCONTINUOUS ENDS AND SPLICED AT SUPPORTS WITH 30 BAR DIA. LAP SPLICES.
7. ALL REINFORCING STEEL SHALL BE FREE FROM LOOSE RUST AND SCALE.
8. ALL ACCESSORIES SHALL HAVE PLASTIC TIPPED UPTURNED LEGS. PLASTIC OR GALVANIZED CHAIRS ARE TO BE USED TO SUPPORT AREAS EXPOSED TO WEATHER.
9. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED AND FIRMLY HELD IN PLACE BEFORE AND DURING THE PLACEMENT OF CONCRETE.
10. SUPPORT BARS SHALL BE PROVIDED IN ADDITION TO REINFORCING SHOWN OR CALLED FOR IN THESE PLANS. BARS SHALL NOT BE SPACED MORE THAN 4'-0" O.C. A MINIMUM OF 3 SUPPORT BARS AND 3 INDIVIDUAL HIGH CHAIRS FOR EACH SUPPORT BAR SHALL BE PROVIDED FOR ALL TOP REINFORCING.
11. PLASTIC TIPPED SLAB BOLSTERS SHALL BE PROVIDED ON 4 SIDES FOR VERTICAL COLUMN REINFORCING SO AS TO MAINTAIN MINIMUM CLEARANCE TO TIES.
12. THE CONTRACTOR SHALL PROVIDE 5 TONS OF STEEL REINFORCING FOR THE ENGINEER TO USE AT HIS DISCRETION DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE CREDIT TO THE OWNER FOR ANY UNUSED PORTION OF THE ALLOWANCE AT THE END OF F THE PROJECT. THIS REINFORCING IS IN ADDITION TO ANY REINFORCEMENT USED IN THE PLANS.

CONCRETE:

1. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK. SUBMIT STATISTICAL DATA FOR EACH CLASS OF CONCRETE INCLUDING, BUT NOT LIMITED TO, MODULUS OF ELASTICITY, MATERIALS, AND ADMIXTURES USED.
2. WATER/CEMENT RATIO SHALL BE 0.40 U.N.O. NO WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.
3. MAXIMUM WATER/CEMENT RATIO FOR CONCRETE CONTAINING A SUPERPLASTICIZING MIXTURE SHALL BE 0.42. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 6" ± 1".
4. FORMWORK SHALL COMPLY WITH ACI 347. ALL FORMWORK SHALL BE SPRAYED WITH CLEAN POTABLE WATER PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN SO AS NOT TO CREATE PUDDLES OF WATER.
5. ALL SURFACES SHALL BE CLEANED BY MEANS OF COMPRESSED AIR SO AS TO REMOVE ALL SAWDUST, DIRT, TIE WIRES, AND DEBRIS PRIOR TO PLACING CONCRETE.
6. THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOW: SIX CYLINDER TESTS FOR ANY 50 CY OF CONCRETE POURED, OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY. ONE CYLINDER SHALL BE TESTED AT 3 DAYS AND 7 DAYS, THREE AT 28 DAYS, AND ONE RESERVED TO BE TESTED AT 56 DAYS IF REQUIRED. FOLLOW ASTM STANDARDS FOR SAMPLING AND TESTING. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS CAST. SLUMP TEST SHALL CONFORM WITH ASTM C 143 NO CONCRETE TEST WILL BE ACCEPTED I F CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
7. TRANSPORTING, PLACING, CURING, AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301 AND 318, LATEST EDITION.
8. FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE THE MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH .... 3"
   - B. CONCRETE EXPOSED TO EARTH OR WEATHER
     - B.1. NO. 6 THROUGH NO. 18 BARS....................... 2"
     - B.2. NO. 5 BARS, W31 OR D31 WIRE, AND SMALLER .... 1 1/2"
   - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     - C.1. SLABS, WALLS, JOISTS:
       - C.1.1. NO. 14 & NO. 18 BARS .... 1 1/2"
       - C.1.2. NO. 11 BARS AND SMALLER .... 3/4"
     - C.2. BEAMS, COLUMNS:
       - C.2.1. PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS .... 1 1/2"
     - C.3. SHELLS, FOLDED LATE MEMBERS:
       - C.3.1. NO. 6 BAR AND LARGER .... 3/4"
       - C.3.2. NO 5. BAR, W31 OR D31 WIRE, AND SMALLER .... 1/2"
9. ALL CONCRETE SHALL BE COMPACTED BY MECHANICAL VIBRATION.
10. CONTROL JOINTS SHALL BE PLACED IN ACCORDANCE WITH ACI 224.3 AND ACI 318
11. CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE LOCATED AT 1/3 OF THE SPAN WITH REINFORCING CONTINUOUS ACROSS THE JOINT. PROVIDE A CONTINUOUS 2X4 SHEAR KEY AT SLABS AND A 1- 1/2" DEEP JOINT 4 INCHES SMALLER THAN THE BEAM SECTION. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE CONCRETE POUR.
12. APPLY ANTI-CORROSION AND BONDING AGENT AT ALL CONSTRUCTION JOINTS PRIOR TO PLACEMENT OF NEW CONCRETE.
13. ALL SLEEVES, PENETRATIONS, BLOCKOUTS, DEPRESSIONS, ETC. MISPLACED IN BEAMS OR SLABS SHALL BE APPROVAL FOR RELOCATION FROM THE ENGINEER OF RECORD PRIOR TO DRILLING OR CHIPPING.

ANCHOR BOLTS:

1. INSTALLATION OF CONCRETE ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH VENDOR INSTALLATION PROCEDURES AND RECOMMENDATIONS.
2. CONCRETE ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE.
3. EMBEDMENT OF ANCHORAGE TO CONCRETE SHALL NOT EXCEED 2/3 OF THE DEPTH OF THE CONCRETE.
4. ALL ANCHORS SHALL BE PRELOADED USING A CALIBRATED MANUALLY OPERATED TORQUE WRENCH. ANCHORS SHALL BE TORQUED AGAINST THE FIXTURE OR BASE PLATE.
5. ANCHOR TREADS SHALL NOT BE LUBRICATED ON ANY ANCHORS WHICH ARE PRELOADED BY TORQUING.
6. HOLES SHALL BE DRILLED WITHIN 6° OF A LINE PERPENDICULAR TO THE SURFACE.
7. EACH ANCHOR SHALL HAVE AT LEAST ONE FLAT WASHER. A BEVELED WASHER SHALL BE USED FOR INSTALLATION OF ANCHOR BOLT GREATER THAN 3° FROM PERPENDICULAR.
8. ANCHOR BOLTS SHALL BE EMBEDDED IN GROUTED CELLS OF CMU WALLS.
9. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.
   - A) ANCHORAGE TO CONCRETE
     - I) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE WITH SAFE SET TECHNOLOGY:
       - (1) HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM INSTALLED USING THE HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS-E THREADED ROD OR DEFORMED REBAR PER ESR-3187 FOR FAST CURE APPLICATIONS.
       - (2) HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM WITH THE HILTI HIT-Z ROD PER ESR-3187 FOR FAST CURE APPLICATIONS.
     - II) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE WITH STANDARD CLEANING PROCEDURES USE:
       - (1) HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD OR DEFORMED REBAR PER ESR-3187 FOR FAST CURE APPLICATIONS.
       - (2) HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD OR DEFORMED REBAR PER ICC ESR-2322 FOR SLOW CURE APPLICATIONS
     - III) MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
       - (1) HILTI KWIK HUS EZ AND KWIK HUS EZ-I SCREW ANCHORS PER ICC ESR-3027
       - (2) HILTI KWIK BOLT-TZ EXPANSION ANCHORS PER ICC ESR-1917
       - (3) HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) PER ICC ESR-2302
     - IV) HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
       - (1) HILTI HDA UNDERCUT ANCHORS PER ICC ESR 1546
       - (2) HILTI HSL-3 EXPANSION ANCHORS PER ICC ESR 1545
10. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
11. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
12. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFI SYSTEM.
13. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
14. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
15. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

FASTENERS

1. WELDED STUD SHEAR CONNECTORS SHALL EXTEND 1 1/2" " ABOVE THE TOP OF THE STEEL DECK AND SHALL HAVE A MINIMUM OF 1/2" CONCRETE COVER ABOVE THE TOP OF THE INSTALLED CONNECTOR.
2. FASTENERS RUNNING PARALLEL WITH THE DECK SHALL NOT EXCEED 24 INCHES ON CENTER.
3. FASTENERS TO THE SUPPORTS SHALL BE AS FOLLOWS:
   - A. SELF-DRILLING SCREWS IN SUPPORT STEEL ≥ .034 INCH THICK SHALL BE #12 SELF DRILLING-SCREW
   - B. THE MINIMUM EDGE DISTANCE FOR SELF-DRILLING SCREWS AND POWER DRIVEN FASTENERS IS 1/2 INCH.

TOLERANCES

1. ALL STRUCTURAL SURFACES SHALL BE BUILT TRUE AND PLUMB. CONSTRUCTION TOLERANCE SHALL CONFORM TO ACI STANDARDS AS SET FORTH IN THE MANUAL OF CONCRETE PRACTICE. MINIMUM
   TOLERANCE SHALL BE AS FOLLOWS:
   - D. VARIATIONS FROM PLUMB:
     - A.1 IN THE LINE SURFACES OF COLUMNS, PIERS, WALLS, AND IN AREAS AS FOLLOWS:
       - IN ANY 10 FEET OF LENGTH .... 1/4 INCH
       - MAXIMUM FOR ENTIRE LENGTH .... 1 INCH
     - A.2 FOR EXPOSED CORNER COLUMNS, CONTROL JOINTS, GROOVES AND OTHER LINES:
       - IN ANY 20 FEET OF LENGTH .... 1/4 INCH
       - MAXIMUM FOR ENTIRE LENGTH .... 1 INCH
   - E. VARIATION FROM THE LEVEL OR FROM THE GRADES INDICATED ON THE DRAWINGS:
     - B.1 IN SLAB SOFFITS, CEILINGS, BEAM SOFFITS AND IN AREAS AS FOLLOWS:
       - IN ANY 10 FEET OF LENGTH .... 1/4 INCH
       - IN ANY BAY OR IN ANY 20 FEET OF LENGTH .... 3/8 INCH
       - MAXIMUM FOR ENTIRE LENGTH .... 1 INCH
     - B.2 IN EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES AND OTHER LINES:
       - IN ANY 20 FEET OF LENGTH .... 1/4 INCH
       - MAXIMUM FOR ENTIRE LENGTH .... 1/2 INCH

FOUNDATION

1. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SHORING, SHEATHING AND BRACING OF EXCAVATIONS.
2. IN NO CASE SHALL TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED WITHIN 8'-0" FROM ANY FOUNDATION WALL UNLESS APPROVED BY THE ENGINEER OF RECORD.
3. ALL FOUNDATION EXCAVATIONS SHALL B BE KEPT DRY. FOUNDATION CONCRETE SHALL BE POURED ONLY UNTIL EXCAVATIONS ARE COMPLETELY DRY.
4. CENTERS OF COLUMNS SHALL COINCIDE WITH CENTERS OF FOOTINGS UNLESS OTHERWISE NOTED IN FOUNDATION PLANS AND FLOORING DETAILS.
5. TOP OF FOUNDATION ELEVATIONS SHOWN IN PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION GATHERED FROM SOIL BORINGS. SOIL CONDITIONS ENCOUNTERED DURING FOUNDATION EXCAVATION MIGHT INDICATE TOP OF FOUNDATION ELEVATION TO BE LOWERED IN ORDER TO EMBED FOUNDATIONS INTO SUPPORTING SOILS.
6. FOUNDATIONS MAY BE EARTH-FORMED IF SOIL CONDITIONS PERMIT. EXCAVATE TO EXACT FOUNDATION SIZES.
7. FOUNDATION EXCAVATIONS SHALL BE INSPECTED B THE ENGINEER OF RECORD AND GEOTECHNICAL ENGINEER AND NO FOUNDATION SHALL BE POURED UNTIL GEOTECHNICAL ENGINEER CERTIFIES THAT SOIL CONDITIONS ARE AS PER GEOTECHNICAL REPORT.
8. TERRAIN SURROUNDING FOUNDATION WALLS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

EARTHWORK

1. CONTRACTOR SHALL VERIFY LOCATION OF ALL BURIED UTILITIES PRIOR TO EXCAVATION AND NOTIFY THE ENGINEER OF RECORD OF THE LOCATION OF ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION.
2. CONTRACTOR SHALL DEWATER SITE AS NECESSARY SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
3. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST ANY WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS.
4. PROVIDE EXCAVATION SHORING, SHEATHING, AND BRACING IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS.
5. PROVIDE ANY BRACING OR SHORING AS REQUIRED IN ORDER TO PREVENT SETTLEMENT OR DISPLACEMENT OF ADJACENT EXISTING FOUNDATIONS AN/OR STRUCTURES.
6. CONSTRUCTION SHALL NOT BE PLACED ON EXPANSIVE SOIL (EXPANSION INDEX GREATER THAN 20), LIQUEFIABLE SOILS OR OTHER QUESTIONABLE SOILS, UNLESS THE SOIL HAS BEEN SPECIALLY PREPARED IN ACCORDANCE WITH RECOMMENDATIONS BY A CIVIL OR GEOTECHNICAL ENGINEER.
7. THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL SUBGRADE PREPARATION WORK PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OF CONCRETE AN SHALL PERFORM TESTS AS NECESSARY TO VERITY THAT SUCH WORK IS IN CONFORMANCE WITH THE RECOMMENDATIONS PROVIDED IN THE SOILS REPORT.
8. SOIL COMPACTION SHALL BE INSPECTED BY A SPECIAL INSPECTOR AS PER THE FLORIDA BUILDING CODE.

SOIL STATEMENT

AS PER NV5, INC. SOILS REPORT (DATED: JANUARY 30, 2017) SOIL CONDITIONS AT THIS SITE MEET OR EXCEED BEARING CAPACITY OF 3,000 PSF. SHOULD OTHER CONDITIONS OR MATERIALS BE ENCOUNTERED, THE ENGINEER OF RECORD SHALL BE NOTIFIED. PRIOR TO PROCEEDING WITH THE WORK THE GEOTECHNICAL ENGINEER SHALL SUPPLY A LETTER ATTESTING THAT THE SITE HAS BEEN OBSERVED AND THE FOUNDATION CONDITIONS ARE SIMILAR TO THOSE UPON WHICH THE DESIGN IS BASED; F.B.C. 2014.

COATING/FINISHING

1. ALL SURFACES TO BE COATED SHALL BE CLEAN, FREE OF DIRT, GREASE, OIL, MOISTURE AND OTHER FOREIGN MATTER.
2. CLEANING SHALL BE PERFORMED AFTER ASSEMBLY OF EACH COMPONENT HAS BEEN COMPLETED.
3. STAINLESS STEEL, GALVANIZED STEEL, AND SURFACES EMBEDDED IN CONCRETE SHALL NOT RECEIVE ANY TYPE OF COATING.
4. JOINTS, CREVICES, SEAMS, EDGES, ETC. SHALL BE CAULKED PRIOR TO TOP-COATING TO PREVENT THE COLLECTION OF MOISTURE.
5. PRIMER AND PAINT COATINGS SHALL BE APPLIED TO ALL SURFACES EXPOSED TO WEATHER WITH EXTERIOR PAINT UNLESS NOTED OTHERWISE.
6. PRIOR TO APPLICATION, THE COLOR OF COATINGS SHALL BE DETERMINED BY THE OWNER OR DELEGATED INDIVIDUAL. PRIMER AND TOP COAT SHOULD HAVE A DIFFERENCE IN COLOR OR TINT.

CODE COMPLIANCE

IT IS CERTIFIED THAT THE UNDERSIGNED HAVE REVIEWED THESE DESIGN DOCUMENTS AND IT IS DESIGNED IN ACCORDANCE WITH ASCE 7-10 AND THE 2014 FLORIDA BUILDING CODE.

DISCLAIMER

This project must comply with Ordinance relating to procurement of iron and steel - Buy American Iron and Steel Products procurement program

ABBREVIATIONS

ADD'L	ADDITIONAL	FURR	FURRING
A.F.F.	ABOVE FINISHED FLOOR	GA	GAUGE
ALT	ALTERNATE	GB	GRADE BEAM
BD	BOARD	GYP	GYPSUM
BM	BEAM	HDR	HEADER
BOC	BOT OF CONC	JT	JOINT
BOS	BOT OF STEEL	MFTR	MANUFACTURER
BOT	BOTTOM	MAX.	MAXIMUM
CLR	CLEAR	MIN.	MINIMUM
CHAMF	CHAMFER	N.I.C.	NOT IN CONTRACT
C.J.	CONTROL JOINT	O.C.	ON CENTER
COL	COLUMN	OVH	OVERHANG
CONC	CONCRETE	REF	REFERENCE
CONT.	CONTINUOUS	REQ'D	REQUIRED
DET	DETAIL	SCH	SCHEDULE
EA	EACH	SEL	SELECT
E.F.	EACH FACE	STRUCT	STRUCTURAL
ELEV	ELEVATION	T&B	TOP & BOT
EVTR.	ELEVATOR	TB	TIE BEAM
EMB	EMBEDMENT	TE	THICKENED EDGE
E.O.C.	EVERY OTHER COURSE	TOC	TOP OF CONC
E.W.	EACH WAY	TOS	TOP OF STEEL
EXIST	EXISTING	TYP	TYPICAL
FBC	FLORIDA BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
FDTN.	FOUNDATION	W/	WITH
F.F.E.	FINISHED FLOOR ELEV.	WD	WOOD

S E A L

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305-662-1660 Fax 786-536-7375

Architecture
Roofing Consultants
Planning
Graphic Design
AA0003517

Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

REVISIONS

DATE
11/27/17

DESIGN | DRAWN

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4967 SW 74TH COURT, MIAMI, FL 33155
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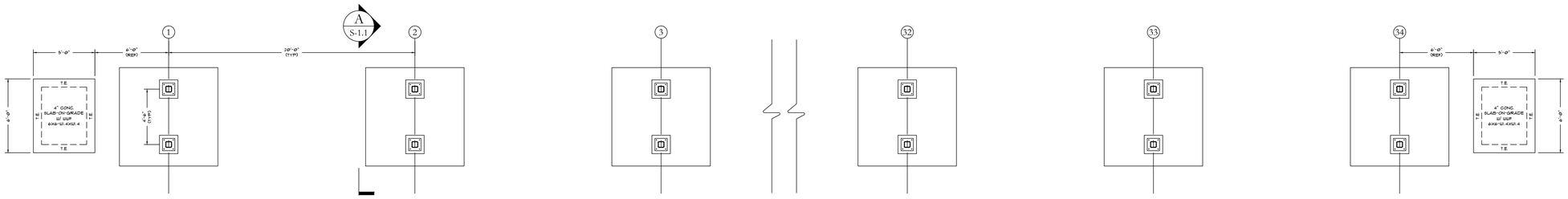
FL C.A. LIC#29935

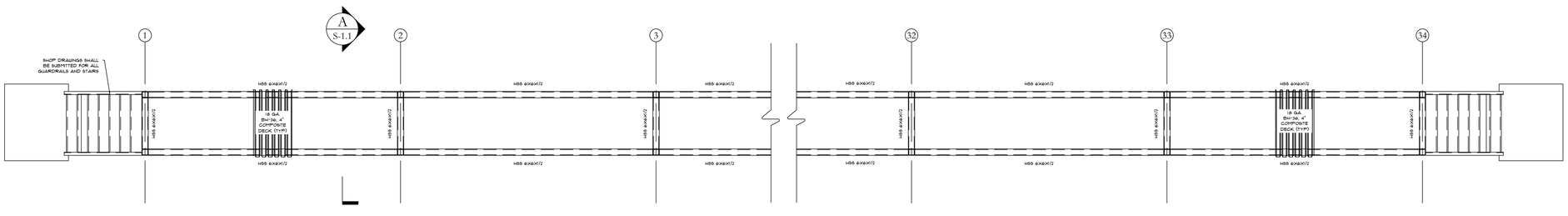
NESTOR ANTONIO CUETO
LICENSE
No. 71988
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

S-0.0



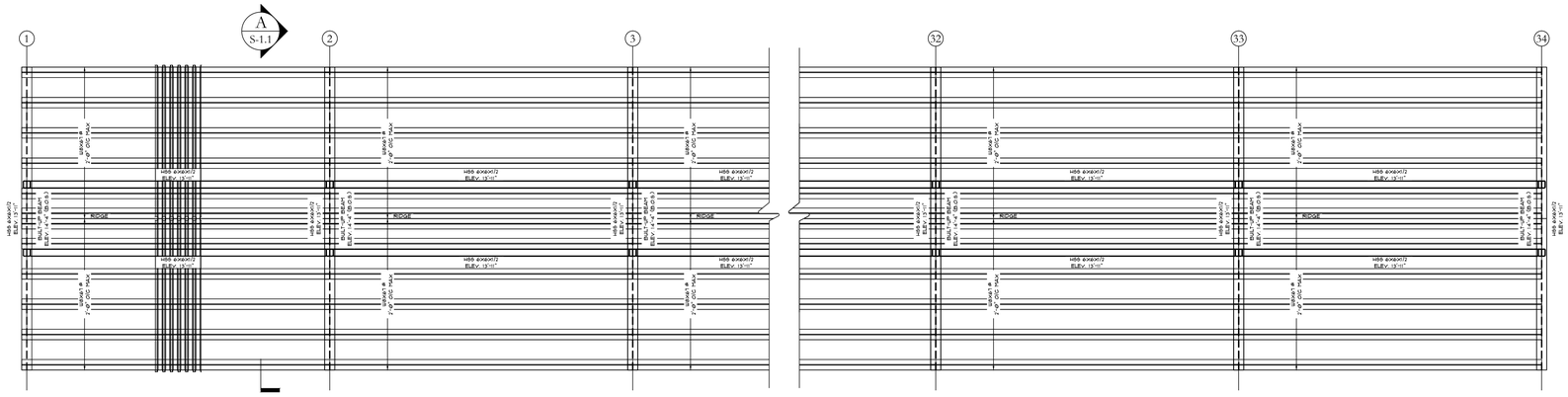
FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

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FL C.A. LIC#29935

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Planning
Graphic Design
LA0003517

Replacement of Railcar Cleaning Platform

Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

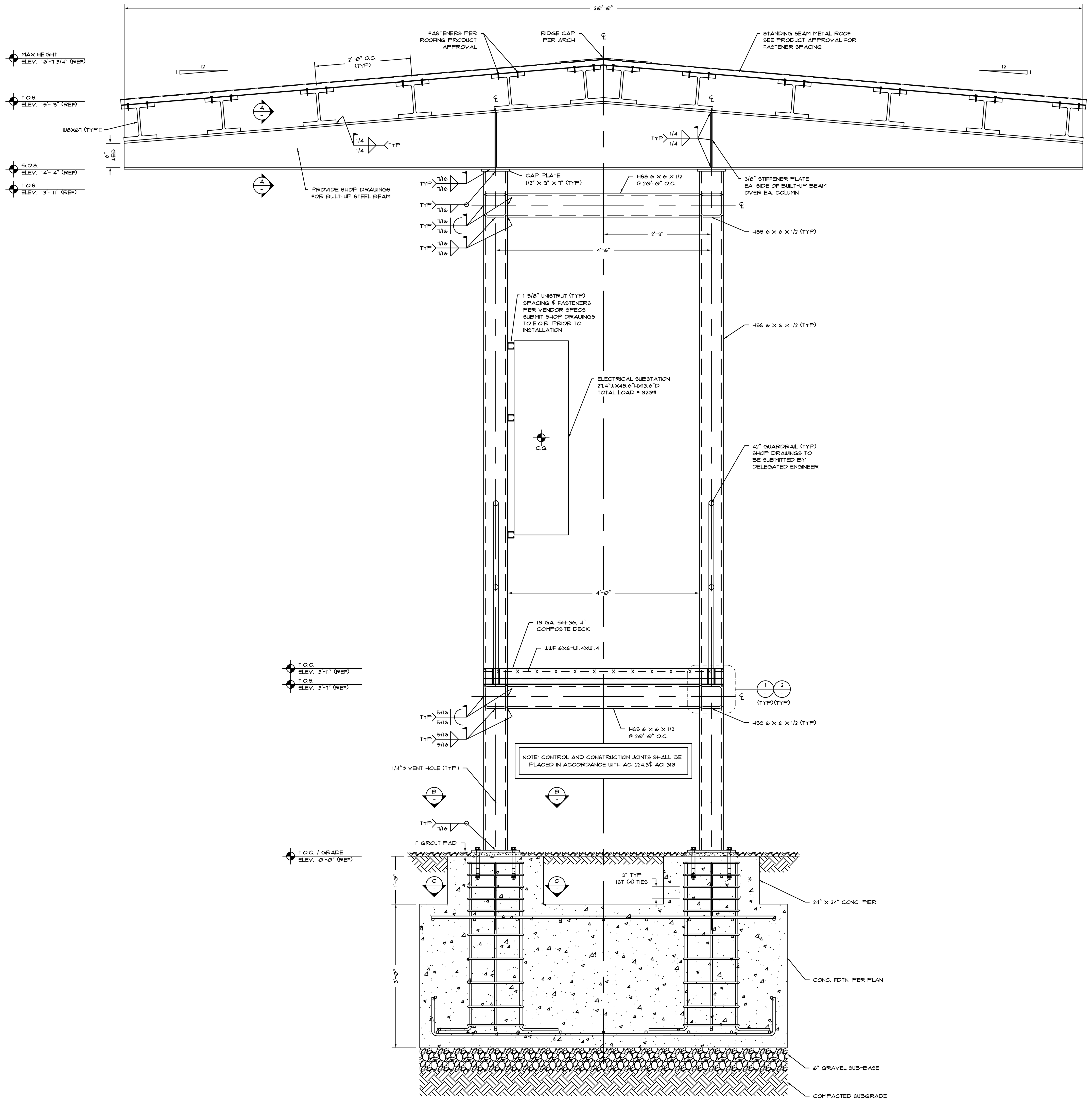
REVISIONS

0	ISSUED FOR BLDG. DEPT. REVIEW
1	INCORP. BLDG. DEPT. COMMENTS

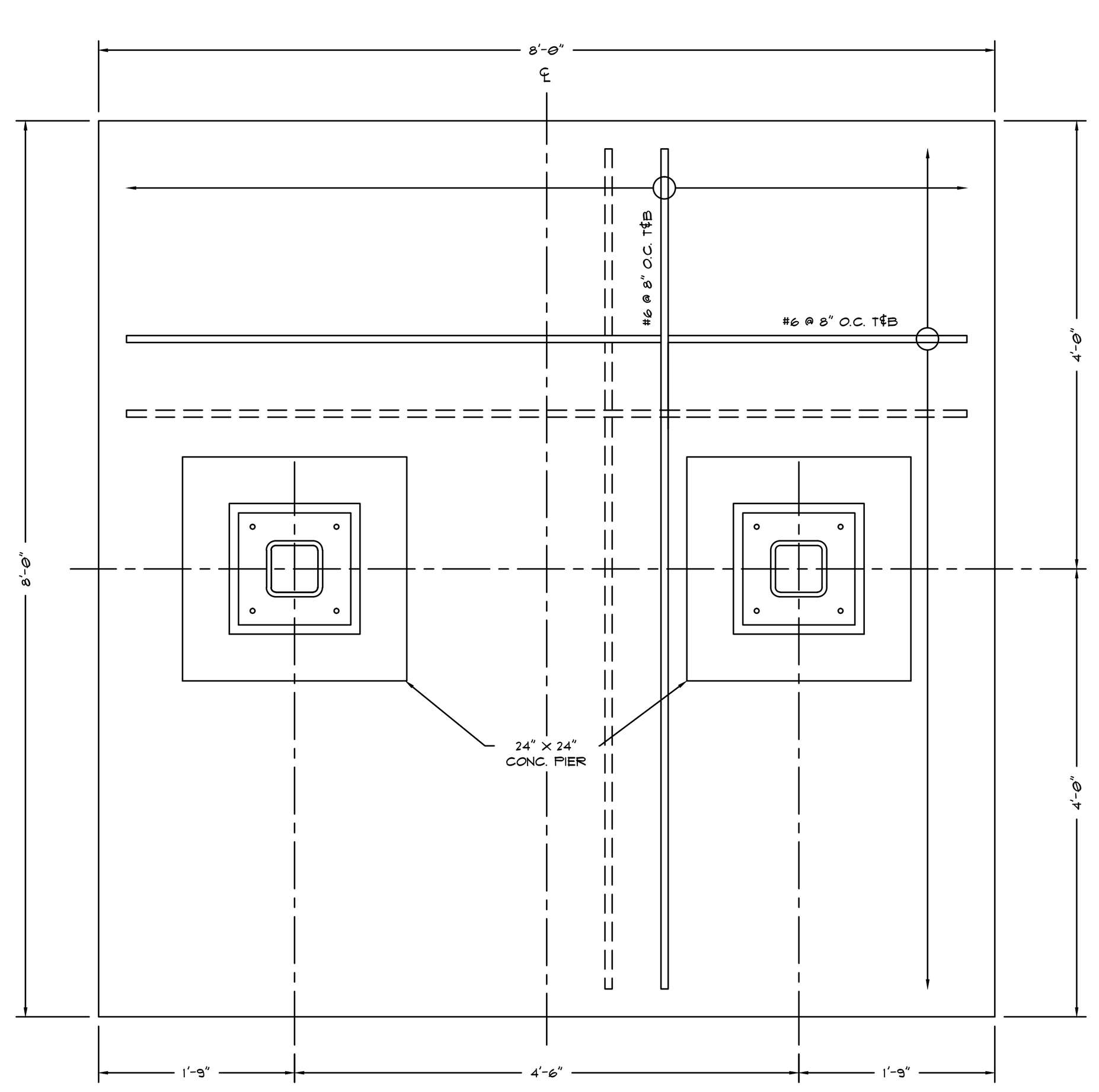
DATE
11/27/17

DESIGN | DRAWN

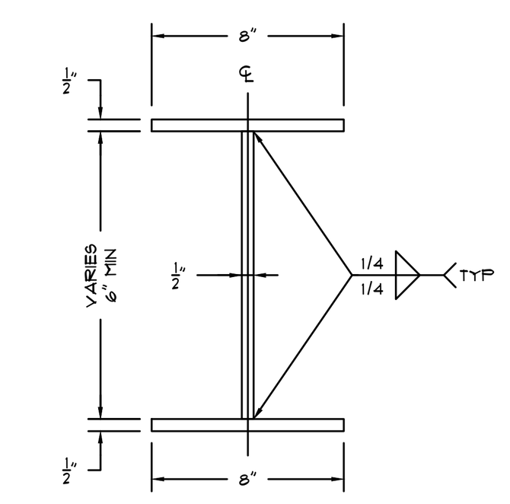
S-1.0



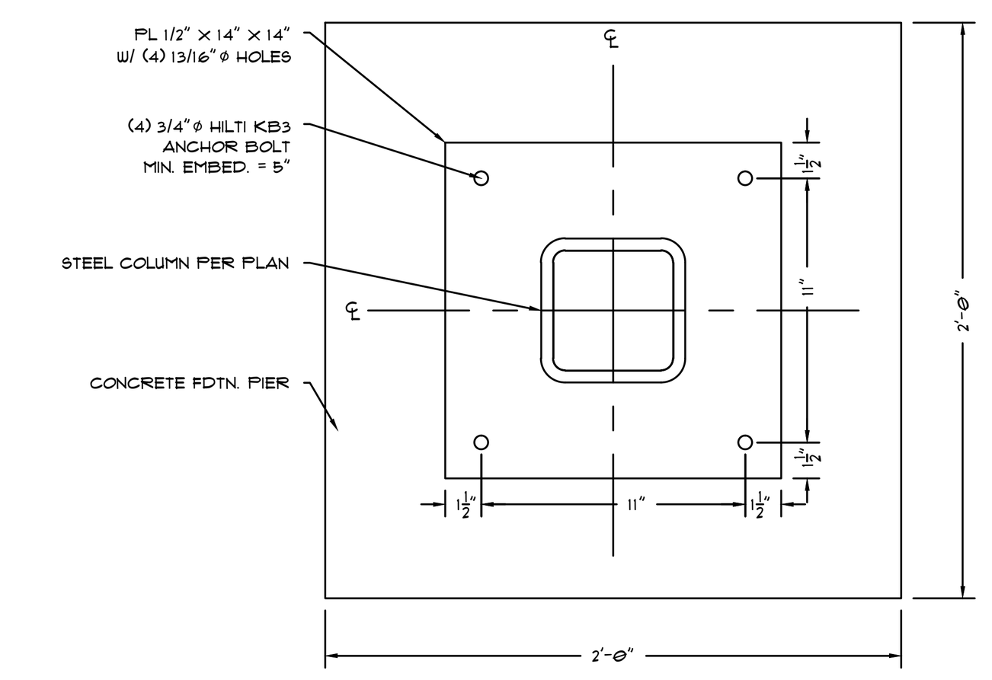
A — S-1.0 TYP. SECTION VIEW
SCALE: 3/4" = 1'-0"



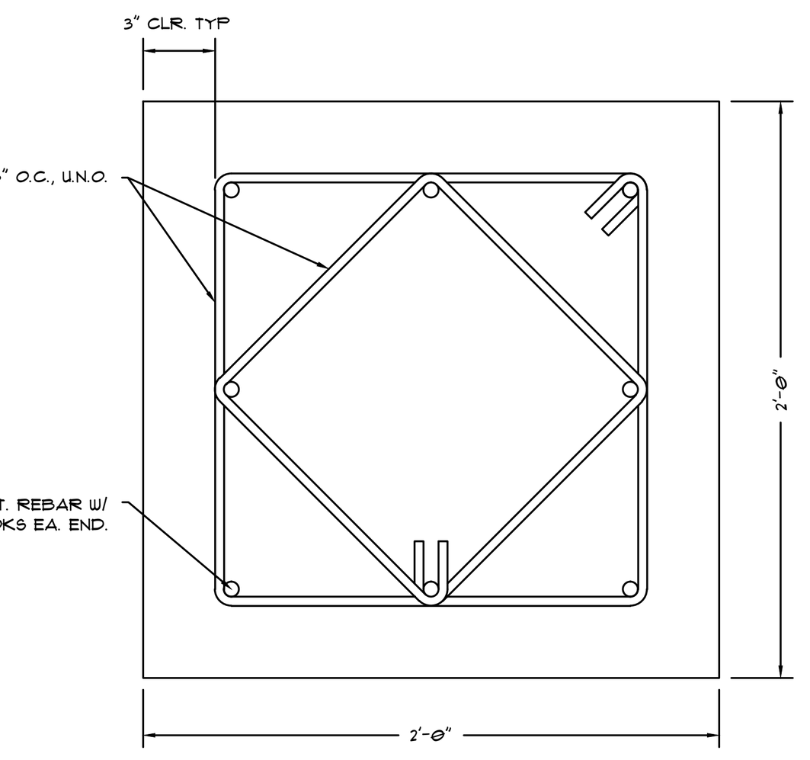
TYP FOUNDATION PLAN
SCALE: 3/4" = 1'-0"



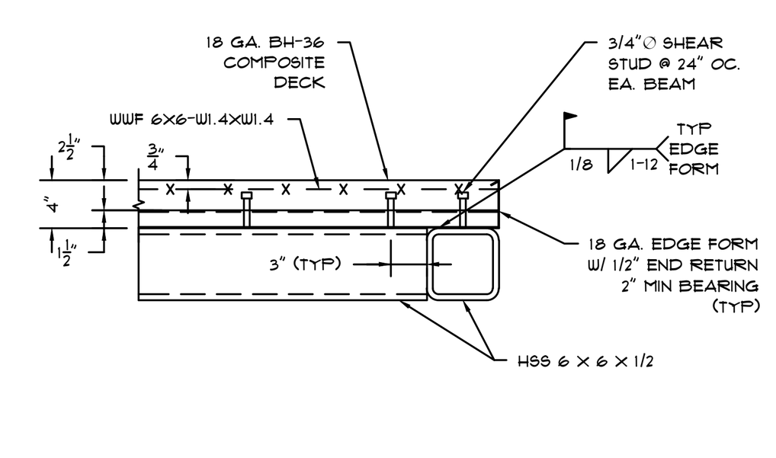
A — SECTION VIEW
SCALE: N.T.S.



B — SECTION VIEW
SCALE: N.T.S.



C — SECTION VIEW
SCALE: N.T.S.



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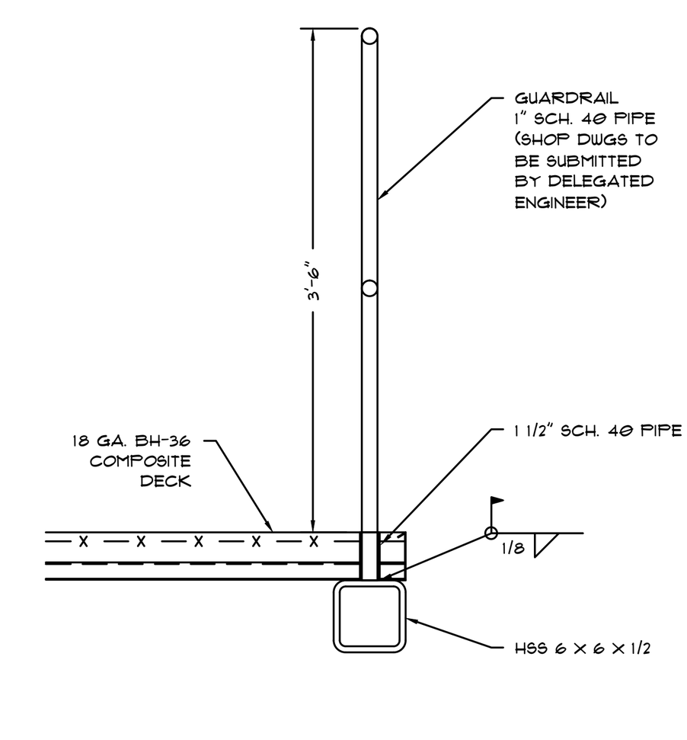

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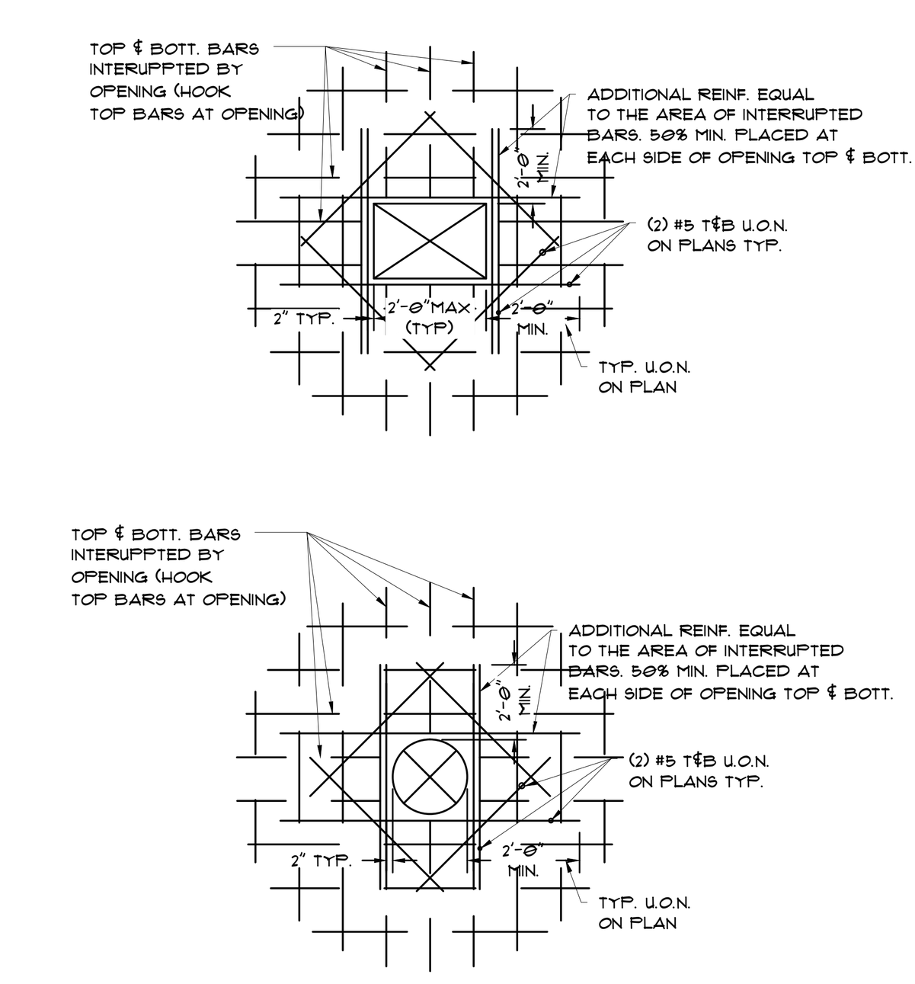
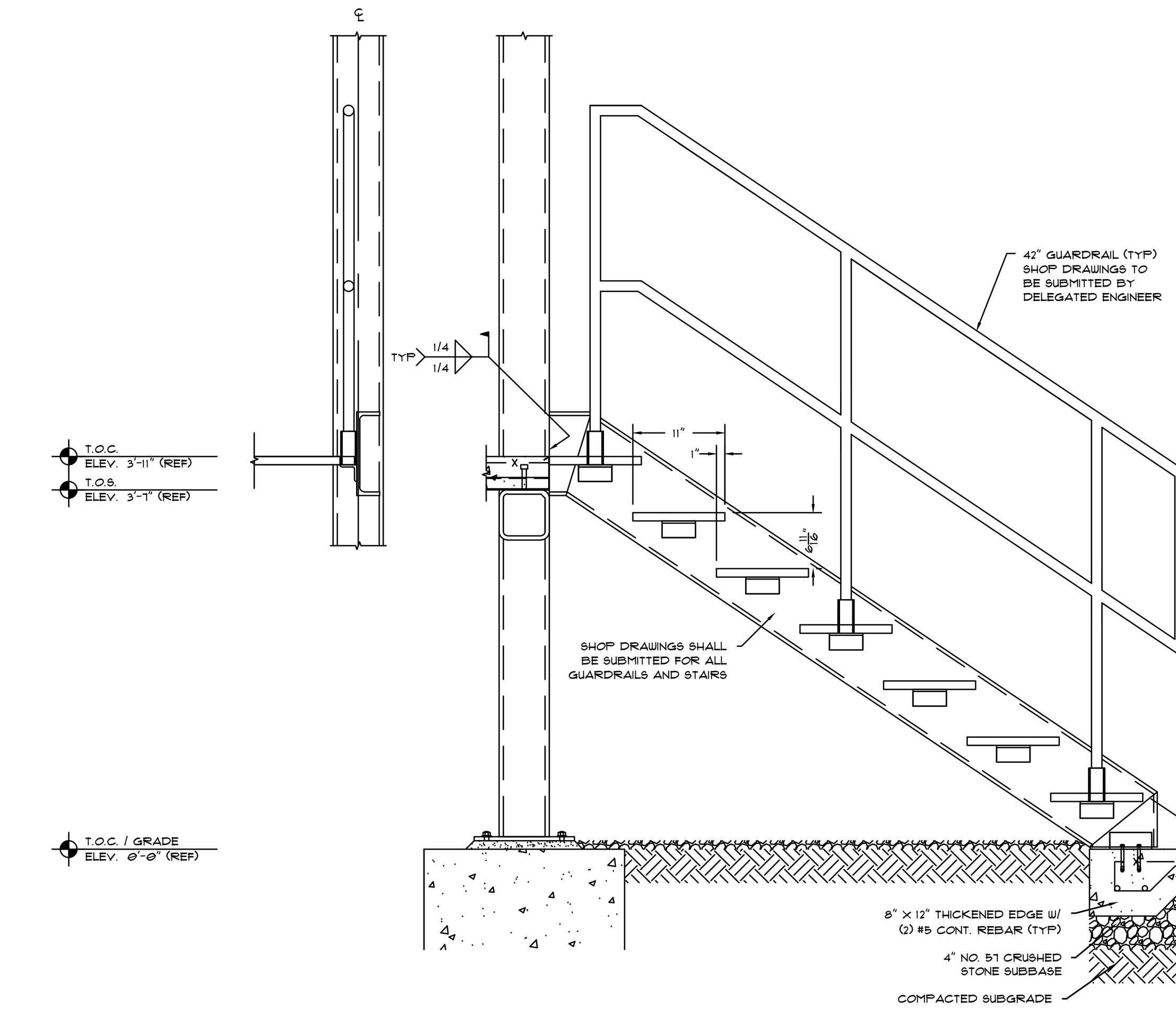


SLAB PENETRATION DETAIL
SCALE: N.T.S.



STAIR DETAIL
SCALE: N.T.S.

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CUETO ENGINEERING

NESTOR ANTONIO CUETO LICENSE No. 71988 STATE OF FLORIDA PROFESSIONAL ENGINEER

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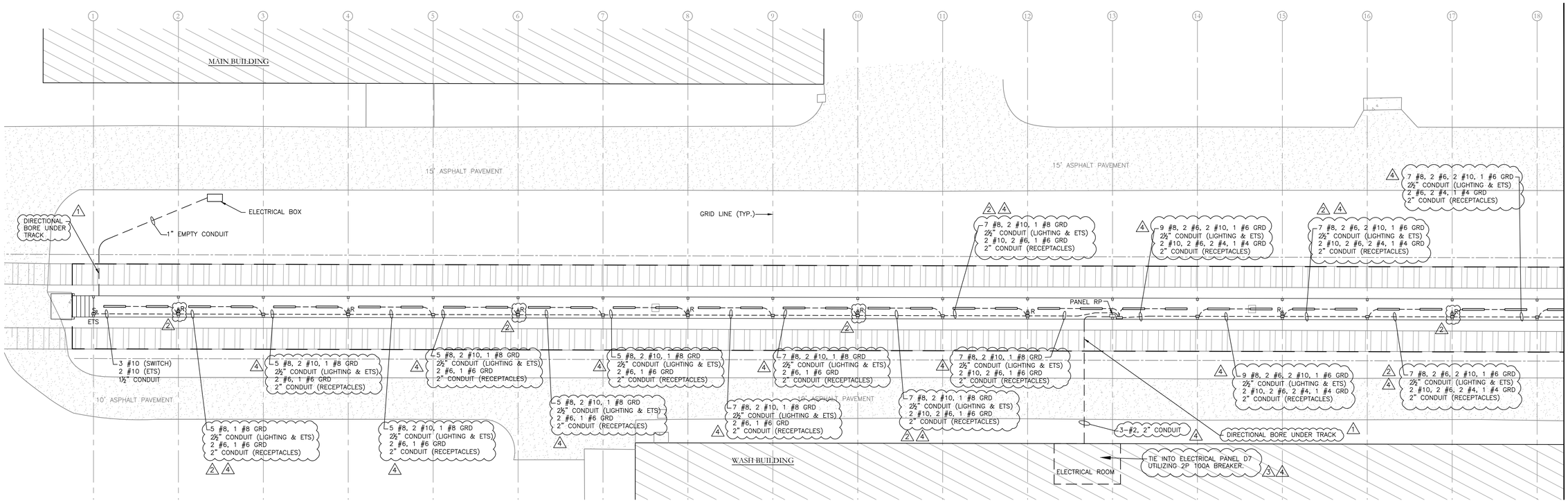
Miami, Florida 33166

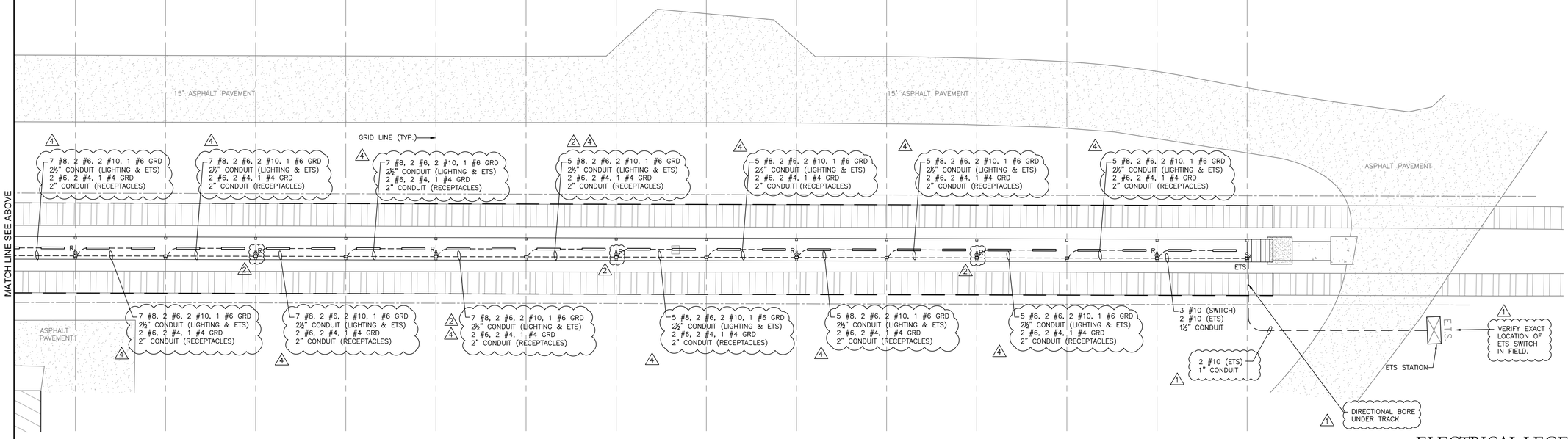
PROJECT NO.
LA16011

REVISIONS
0 ISSUED FOR BLDG. DEPT. REVIEW

DATE
11/27/17
DESIGN | DRAWN

S-1.1





N

ELECTRICAL SITE PLAN 1" = 10'

ELECTRICAL LEGEND

ϕ^R	GFCI RECEPTACLE WITH IN-USE WEATHERPROOF COVER
	LUMINOSO LED LIGHT FIXTURE CAT. NO. VPR-14-75-50K-J-Y-FR-MS-3HK
S^2	3-WAY LIGHT SWITCH WITH WEATHERPROOF COVER
	NEMA 3R JUNCTION BOX (6"x6"x4")
	NEMA 3R JUNCTION BOX (12"x12"x4")
	EMT CONDUIT, SIZE AS INDICATED
ETS	NEMA 3R JUNCTION BOX (4"x4"x4")

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Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

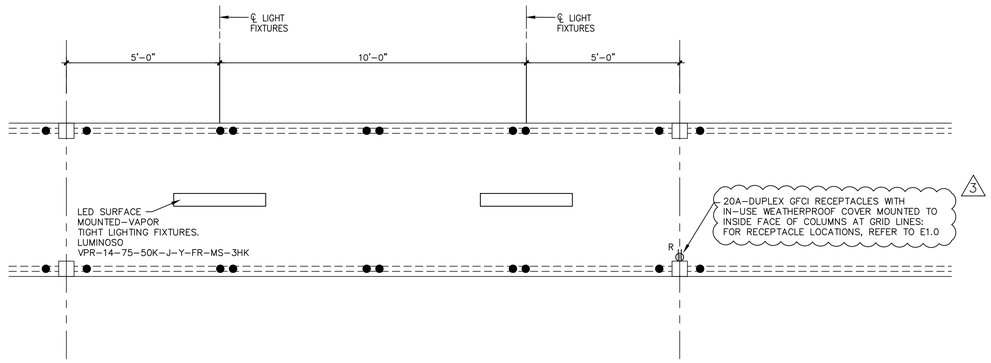
REVISIONS

1	5/30/2019	REVISED NOTES
2	7/03/2019	
3	8/20/2019	
4	10/31/2019	

DATE 8/21/17
DESIGN BLM DRAWN CSS

E1.0

1 OF 3



A E2.0 ENLARGED PLAN 1/2" = 1'-0"

TYPICAL BAY

4

VOLTS: 480 TO 120/240V STEP-DOWN TRANSFORMER/LOAD CENTER
MOUNTING: SURFACE
SIZE: 25kVA

PANEL BOARD: RP
LOCATION: SEGMENT 12 COLUMN
MAIN: 125A, 2 POLE (SECONDARY) MAIN
AIC MIN: 18,000

CONNECTED LOAD (KVA)								CONNECTED LOAD (KVA)	
A	B	LOAD	BREAKER	CIRCUIT	PHASE	CIRCUIT	BREAKER	LOAD	A	B
1.21		LIGHTS – BAYS 1–7	20	1	A	2	20	LIGHTS – BAYS 7–16	1.21	
	1.21	LIGHTS – BAYS 16–25	20	3	B	4	20	LIGHTS – BAYS 25–32		1.06
1.92		RECEPTACLES 1–4	20	5	A	6	20	RECEPTACLES 5–8	1.92	
	1.92	RECEPTACLES 9–12	20	7	B	8	20	LIGHTING CONTROLS		0.2
1.92		RECEPTACLES 13–15	20	9	A	10	20	SPARE	–	
	0.1	EMERGENCY TRIP STATION	20	11	B	12	20	SPARE		–
–		SPARE	20	13	A	14	20	SPARE	–	
	–	SPARE	20	15	B	16	20	SPARE		–
		SPARE	20	17	A	18	20	SPARE	–	
5.05	3.23	LEFT BANK TOTALS						RIGHT BANK TOTALS	3.13	1.26
8.18	5.45	GRAND TOTALS								

2

3
4

*EXISTING PANEL D7 LOAD CALCULATIONS

TOTAL NEW LOAD: PHASE B + C
25,000 VA / 480V = 52A

PHASE A MEASURED MAX PEAK CURRENT =110.8A
NEW LOAD = 0.0A
110.8A

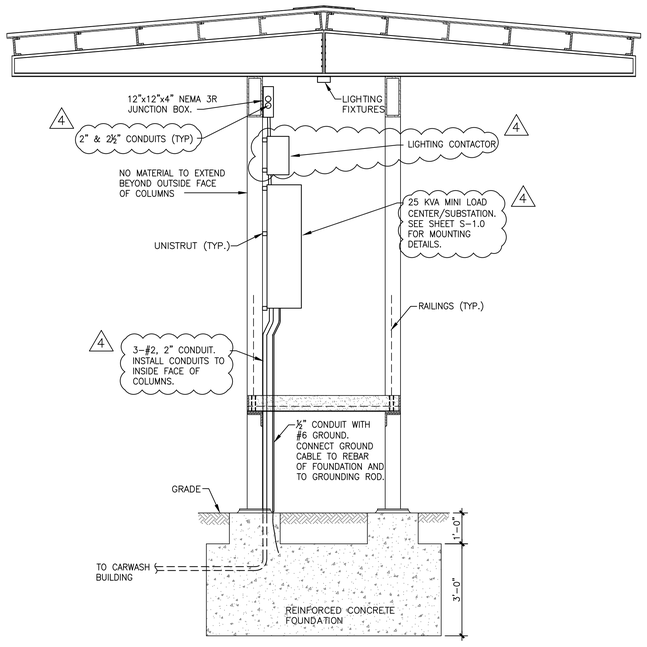
PHASE B MEASURED MAX PEAK CURRENT = 88.8A
NEW LOAD = 52.0A
140.8A

PHASE C MEASURED MAX PEAK CURRENT = 95.8A
NEW LOAD = 52.0A
147.8A

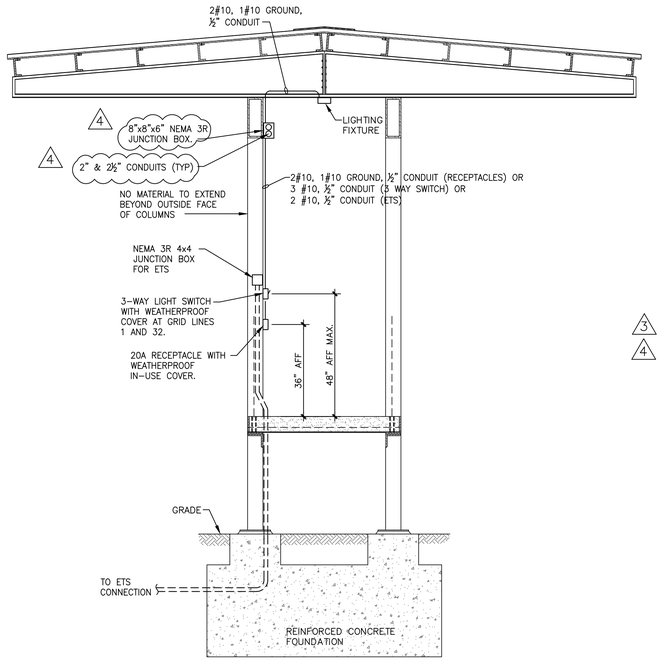
NOTE: NO OVERLOAD FORESEEN ON PANEL D7 WITH 400A RATING.

* CALCULATION WAS PERFORMED USING MINI LOAD CENTER FULL RATED AMPS.

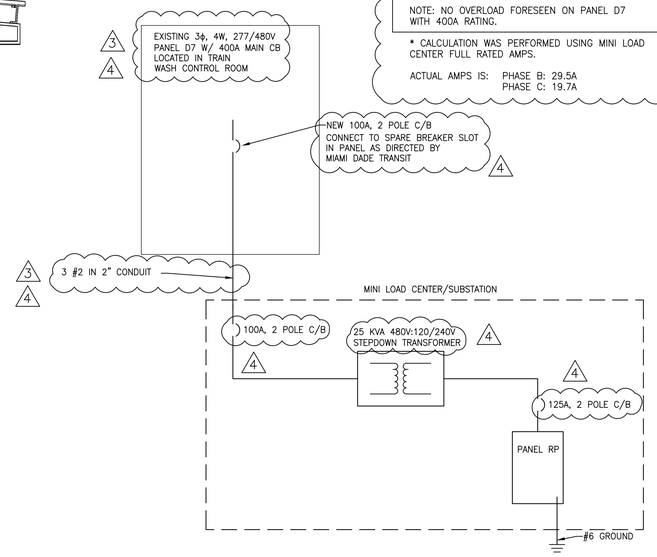
ACTUAL AMPS IS: PHASE B: 29.5A
PHASE C: 19.7A



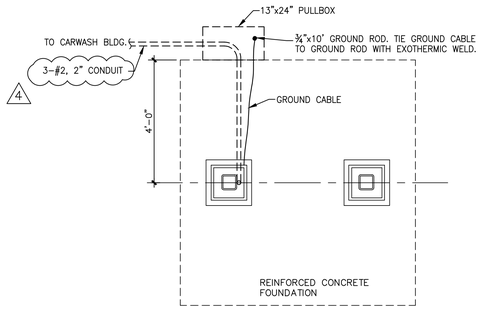
B E2.0 LOAD CENTER DETAIL 1 1/2" = 1'-0"



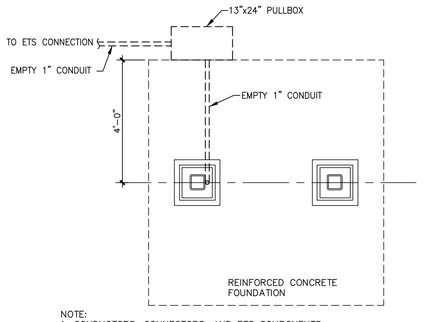
D E2.0 TYPICAL ELECTRICAL DETAIL 1/2" = 1'-0"



E E2.0 ONE LINE DIAGRAM NTS

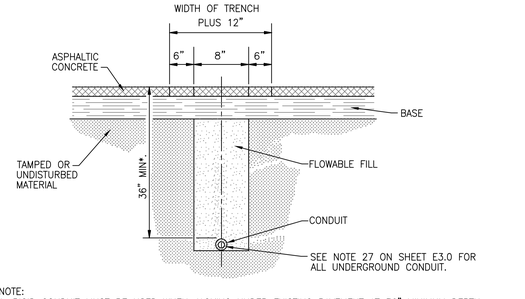


C E2.0 LOAD CENTER DETAIL 2 1/2" = 1'-0"



NOTE:
1. CONDUCTORS, CONNECTORS, AND ETS COMPONENTS TO BE PROVIDED AND INSTALLED BY OTHERS

G E2.0 ETS DETAIL 1/2" = 1'-0"



NOTE:
1. RIGID CONDUIT MUST BE USED WHEN JACKING UNDER EXISTING PAVEMENT AT 36" MINIMUM DEPTH.
2. ASPHALT TO BE SAWCUT AT THE EDGES OF THE TRENCH.
3. THE REMOVAL AND REPLACEMENT OF THE ADDITIONAL PAVEMENT WIDTH (6") WILL NOT BE REQUIRED WHEN THE TRENCH CAN BE CONSTRUCTED WITHOUT DISTURBING THE ASPHALT SURFACE ON EITHER SIDE.

F E2.0 CONDUIT INSTALLATION DETAIL NTS

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PROJECT NO.
LA16011

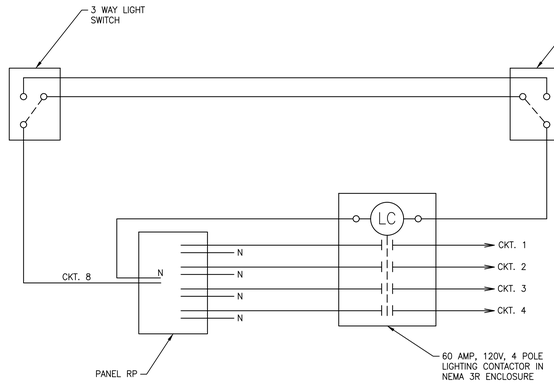
REVISIONS	
2	7/03/2019
3	8/20/2019
4	10/31/2019

DATE	
6/14/17	
DESIGN	DRAWN
BLM	CSS

E2.0

2 OF 3

Drawing Name: I:\SLNP\PJ\0001\049\ACAD\DWG\E2.0 - Electrical Details.dwg Nov 08, 2019 - 8:18am



4

H
E3.0

LIGHTING CONTROLS WIRING DIAGRAM NTS

GENERAL ELECTRICAL NOTES & SPECIFICATIONS

1. THE "GENERAL CONDITIONS OF THE CONTRACT", CURRENT EDITION, PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL BE PART OF THIS CONTRACT.
2. IT IS NOT THE INTENT OF THESE PLANS AND SPECIFICATIONS TO SHOW EVERY AND ALL DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION IN PROPER WORKING ORDER.
3. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC 2017) AND SOUTHERN FLORIDA BUILDING CODE 2014 5th EDITION.
4. THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY ALL FEES CONNECTED WITH HIS WORK.
5. THE CONTRACTOR SHALL COORDINATE WITH MIAMI DADE COUNTY CONCERNING ELECTRICAL PANEL TO BE USED FOR CONNECTION OF POWER.
6. THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS.
7. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS OF ALL ELECTRICAL ITEMS. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTION IN WRITING TO THE ENGINEER, 10 WORKING DAYS PRIOR TO BIDDING DATE.
9. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT AND MATERIALS. SUBMIT A MINIMUM OF FOUR SETS TO THE A/E.
10. THIS CONTRACTOR SHALL TOUCH UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT OR INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED DURING THE PERFORMANCE OF THE WORK.
11. THE ELECTRICAL INSTALLATION SHALL MEET THE APPROVAL OF THE GOVERNING AUTHORITY BEFORE ACCEPTANCE BY THE OWNER.
12. THE CONTRACTOR SHALL BE A STATE LICENSED ELECTRICAL CONTRACTOR.
13. THE ENTIRE INSTALLATION SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF A LICENSED MASTER ELECTRICIAN IN A FIRST CLASS WORKMANLIKE MANNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
14. ELECTRICAL WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL AND MECHANICAL CONSTRUCTION. SHOULD ELECTRICAL WORK BE INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER TRADES, SUCH WORK SHALL BE CORRECTED AT NO COST TO HE OWNER. THE CONTRACTOR SHALL SUBMIT (4 COPIES) OF EQUIPMENT LAYOUT OF ALL ELECTRICAL SPACES, ROOMS, ETC., TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC.. LAYOUTS SHALL CONSIST OF PLAN VIEW/S (SCALED AT 1/2" = 1'-0") AND ELEVATIONS (DIMENSIONED) FOR EACH SPACE, ROOM, ETC., AND SHALL INCLUDE EQUIPMENT FURNISHED BY OTHER TRADES.
15. GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (ARTICLE 250) AND REQUIREMENTS OF THE INSPECTING AUTHORITY. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH UL APPROVED ACCESSIBLE GROUND CLAMPS, UNLESS OTHERWISE NOTED.
16. UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT.
17. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
18. ALL ITEMS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CONTROL OF ELECTRICAL CIRCUITS AND APPARATUS SHALL BE IDENTIFIED.
19. ALL CONDUCTORS SHALL BE COPPER, 600V. #12 AND SMALLER, SOLID TYPE THWN2/THHN; #10 AND LARGER STRANDED TYPE THWN2/THHN.
20. ALL CONDUCTORS FOR POWER LIMITED CABLES SHALL COMPLY WITH ARTICLES 725 AND 760 OF N.E.C., LATEST EDITION.
21. NOMINAL MOUNTING HEIGHT OF DEVICES IN EXPOSED CONCRETE BLOCK, TILE OR BRICK WALLS SHALL ALL OCCUR WITHIN A STRUCTURAL COURSE. MINIMAL AMOUNT OF BLOCK, TILE OR BRICK WALLS SHALL BE CUT.
22. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE INDUSTRIAL GRADE, HEAVY-DUTY, AND U.L. LISTED UNLESS SPECIFIED OTHERWISE. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL AS A MINIMUM. ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND THE INTENDED USE OF THE FOLLOWING:

    A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
    B. ILLUMINATING ENGINEERS SOCIETY (IES)
    C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
    D. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
    NOTE: THESE STANDARDS ARE SUBORDINATE TO STANDARDS SET BY U.L. AND LOCAL CODES.

23. WIRING DEVICES SHALL BE SPECIFICATION GRADE. MINIMUM SIZE OF OUTLET BOXES SHALL BE 4" SQ. TRADE. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS.
24. ALL ELECTRICAL CONDUCTORS MUST BE IN CONDUIT. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (A) POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SUBS AND UNDERGROUND PROVIDED THAT ELBOWS AND RISERS ARE RGS; (B) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILINGS OF FINISHED AREAS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, OR CORROSIVE CONDITIONS; (C) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED IN WET OR DAMP LOCATIONS; (D) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS FOR VIBRATING EQUIPMENTS. ALL CONDUITS IN HAZARDOUS LOCATIONS SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5. THE USE OF ENT CONDUIT IS PROHIBITED.
25. APPLY 2 COATS OF BITUMASTIC COATING TO ALL METALLIC CONDUITS INSTALLED UNDERGROUND.
26. NO CONDUITS TO BE RUN IN DUCT WORK. A POLYESTER PULL CORD SHALL BE INSTALLED IN ALL EMPTY CONDUITS.
27. ALL CONDUIT UNDERGROUND , UNDER PAVEMENT AND UNDER RAIL SHALL MEET THE MIAMI DADE WATER AND SEWER DESIGN AND CONSTRUCTION STANDARDS, SECTION 15070.
28. SIZE ALL WIREWAYS ACCORDING TO N.E.C. ARTICLE 578-22.
29. ALL RATED WALL/FLOOR PENETRATIONS ARE TO BE SEALED WITH A FIRE RATED SEALER, PER ASTM E814.
30. WHERE CORE DRILLING OF FLOORS/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL AROUND THE OPENING AS SPECIFIED ABOVE.
31. ANY VARIATION FROM THE PLANS ARE TO BE PREVIOUSLY APPROVED BY THE ENGINEER IN WRITING.
32. CONDUIT AND ELECTRICAL EQUIPMENT EXPOSED TO WEATHER MUST BE WEATHERPROOF (NEMA 3R).
33. TERMINATIONS ARE TO BE MADE AS PER U.L. ARTICLE 486B.
34. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SITE WORK.
35. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC). MULTI-POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
36. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS, AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES, RESULTING IN ANY DOWN OR LAG TIME.
37. THE CONTRACTOR SHALL VERIFY CIRCUIT DEVICE PROTECTIVE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION.
38. NO CUTTING OR DRILLING OF STRUCTURAL ITEMS SHALL BE DONE WITHOUT PRIOR WRITTEN APPROVAL FROM A LICENSED STRUCTURAL ENGINEER.

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Replacement of Railcar Cleaning Platform
Lehman Center (DTPW)
6601 N.W. 72nd Avenue
Miami, Florida 33166

PROJECT NO.
LA16011

REVISIONS

4	10/31/2019

DATE 6/14/17
DESIGN BLM | DRAWN CSS

E3.0