MIAMI-DADE COUNTY, FLORIDA

DEPARTMENT OF SOLID WASTE MANAGEMET

NORTHEAST TRANSFER STATION (NETS)

TRUCK WASH BUILDING COLUMN REPAIRS AND IMPROVEMENTS

18701 NE 6TH AVENUE
MIAMI, FLORIDA

CONTRACT EDP-SW-18601-25

INDEX OF SHEETS

EXISTING PLANS

BOARD OF COMMISIONERS

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Natalie Millan Orbis District 6	Rene Garcia District 13
Raquel Regalado District 7	

PROJECT LOCATION

N

PROJECT LOCATION PLAN

DRAWINGS (ATTACHMENT NO.1)

Approvals

CHROME ENGINEERING, INC.
CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

MIAMI-DADE COUNTY

Project Info:
Miami-Dade County Department of Solid Waste Management (DSWM)
NORTH TRANSFER STATION (NETS)
TRUCK WASH BUILDING
REPAIRS
EDP Contract: EDP-SW-18601-25

Key Plan:

Seal:

OSCAR J. CRUZ
No.63889
STATE OF FLORIDA
PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by: Oscar J. Cruz, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed, any and all signature must be verified on electronic copies.

NO.	REVISIONS	DATE

PROJECT PHASE: 100% CD SET 10/02/2025
ISSUED DATE: 05/27/2025
CHROME ENGINEERING PROJECT NO.: 25-25
SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: COVER SHEET
SHEET NO. S-100

GENERAL NOTES

STRUCTURAL NOTES:

1. STRUCTURAL NOTES ARE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT AND IN CLARIFICATION THEREOF.
2. ALL MATERIAL, WORKMANSHIP, DESIGN AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS.
3. CODES AND STANDARDS:
   A. 2023 FLORIDA BUILDING CODE, EXISTING BUILDING, 8TH EDITION.
   B. ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'

4. CONCRETE:

ALL CONCRETE TO ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. AGGREGATES TO BE CLEAN AND WELL GRADED, MAXIMUM SIZE I". CONCRETE SLUMP: 4" MIN. TO 6" MAX.

CONCRETE COVER: 1 - ½" AT ALL LOCATIONS

5. REINFORCING STEEL:

REINFORCING STEEL BARS SHALL BE HIGH STRENGTH,GRADE 60. DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615 SPECIFICATION. BARS SHALL BE FREE FROM RUST AND SCALE.

ALL REINFORCING SHALL BE DETAILED AND FABRICATED FOLLOWING THE REQUIREMENTS OF ACI 315. PLACING OF REINFORCING BARS SHALL CONFORM TO "CRSI RECOMMENDED PRACTICES FOR PLACING REINFORCING BARS".

1. SCOPE OF WORK:

DEFICIENCIES ARE BASED ON CHROME ENGINEERING, INC. FIELD INSPECTION PERFORMED ON APRIL 24, 2025 AND MAY 15, 2025

THE SCOPE OF WORK UNDER THIS CONTRACT INCLUDES FURNISHING OF ALL MATERIALS, LABOR, SERVICES, PERMIT FEES, SUPERVISION, TOOLS AND EQUIPMENT REQUIRED TO REPAIR STRUCTURAL DEFICIENCIES NOTED IN THE PLANS.

THE FOLLOWING ITEMS ARE INCLUDED:

A. FULL REPLACE THE BOTTOM 2' OF STEEL COLUMNS 1A THRU 1F (EAST REPAIRS)
B. CLEAN THE SURFACE OF COLUMNS 4A THRU 4F. (WEST REPAIRS)
C. CLEAN AND COAT EXISTING STEEL BUILDING.

SEE PHOTO INVENTORY ON SHEET S-102 FOR SAMPLE OF DEFICIENCIES.

CONTRACTOR SHALL TEMPORARILY DETACH ANY CONDUITS IN CONFLICT WITH THE PROPOSED REPAIRS. ANY REMOVED ELEMENTS SHALL BE REATTACHED IN WORKING ORDER TO THE RECOATED BUILDING.

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED:

A. STEEL SHORING INSTALLATION PRIOR TO STEAL REMOVAL.
B. EPOXY ANCHOR BOLT INSTALLATION.
C. REMOVAL OF SHORING AFTER REPLACEMENT COLUMN INSTALLATION.

2. PERMIT, FEES AND NOTICES:

A. EXCEPT AS SPECIALLY APPROVED BY THE OWNER, THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMIT AND FEES THAT MAY BE REQUIRED BY THE MIAMI DADE COUNTY BUILDING DEPARTMENT. COUNTY WILL REIMBURSE THE CONTRACTOR.

B. A COPY OF ALL REQUIRED PERMITS, LICENSES, CERTIFICATES, AND APPROVALS SHALL BE DELIVERED TO THE OWNER, AND A COPY POSTED IN A PROMINENT LOCATION AT THE WORK SITE PRIOR TO COMMENCEMENT OF THE WORK.

C. CONTRACTOR SHALL PROVIDE COPIES OF INSURANCE CERTIFICATES FOR WORKER'S COMPENSATION AND GENERAL LIABILITY TO THE OWNER. MINIMUM COVERAGE SHALL BE AS REQUIRED BY THE LAW.

D. THE CONTRACTOR SHALL COORDINATE THE USE OF WATER AND ELECTRICITY AVAILABLE ON SITE WITH DSWM PRIOR TO THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL INSTALL A WATER METER TO USE OWNER'S WATER. CONTRACTOR SHALL PROVIDE A GENERATOR FOR USE OF EQUIPMENT OTHER THAN LIGHT HANDLED ELECTRICAL POWER TOOLS.

3. EXISTING DIMENSION AND CONDITIONS:

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER.

4. METHODS AND SAFETY:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION.

B. CONSTRUCTION SITE SAFETY, INCLUDING ALL ADEQUATE TEMPORARY BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR. SHORING DESIGN AND PLANS SHALL BE PERFORMED BY A FLORIDA REGISTERED DESIGN PROFESSIONAL AND SUBMITTED TO EOR FOR REVIEW AND APPROVAL.

C. ANY STAGING, SCAFFOLDING OR LIFTING DEVICES TO BE USED BY THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS AND REQUIREMENTS.

D. WHILE WORKING ON STAGES, SCAFFOLDING, BALCONY AND BUILDING AREAS ABOVE GROUND, ALL TOOLS AND MATERIALS SHALL BE PROPERLY SECURED.

E. VEHICULAR TRAFFIC IS NOT ALLOWED WITHIN A 10 FOOT RADIUS OF ANY COLUMN BEING REPAIRED. (COLUMN BASE AND LEVEL ABOVE)

F. MATERIAL TESTING PER PROJECT SPECIFICATIONS.

5. CLEANING OF WORK:

A. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS FROM THE SITE ON A DAILY BASIS, AND DUMPSTERS EMPTIED AS REQUIRED. DO NOT ALLOW DEBRIS TO ACCUMULATE.

B. THE BUILDING AREAS SHALL BE KEPT IN A SAFE, UNCLUTTERED CONDITION FOR THE DURATION OF THE PROJECT.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTRICTING AND SECURING FREE ACCESS TO WORK AREAS WHERE WORK IS BEING PERFORMED. THE CONTRACTOR MUST NOTIFY THE OWNER WHEN AND IF ANY AREAS CANNOT BE SAFELY SECURED.

D. AT THE END OF EACH WORKDAY, SECURE ALL EQUIPMENT, MACHINERY, MATERIALS, ETC.

E. ALL EXTERIOR OR INTERIOR BUILDING COMPONENTS REMOVED OR ADJUSTED TO PROVIDE ACCESS FOR COMPLETING THE REPAIRS, SHALL BE REINSTALLED TO THEIR ORIGINAL CONDITION.

F. AT THE COMPLETION OF THE PROJECT, THE ENTIRE WORK AREA SHALL BE LEFT IN A BROOM SWEPT CONDITION.

6. PROJECT SCHEDULE AND COMPLETION:

A. THE CONTRACTOR SHALL SUBMIT A PROPOSED PROJECT SCHEDULE IN WRITING TO THE OWNER FOR REVIEW AND APPROVAL. THE WORK SCHEDULE SEQUENCE SHALL CONFORM TO ALL OF OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY WITH MINIMUM INTERRUPTION OF NORMAL OPERATIONS.

B. THE CONTRACTOR SHALL MAINTAIN EXISTING DRIVEWAYS AND ENTRANCES SERVING THE PREMISES CLEAR AND AVAILABLE TO THE OWNER, EMPLOYEES AND GUESTS.

C. ANY ADDITIONAL WORK REQUESTED OR UNANTICIPATED WORK NEEDED, MUST BE COMMUNICATED TO THE OWNER AND ENGINEER IN WRITING. THE CONTRACTOR MUST HAVE APPROVAL TO PROCEED WITH ANY ADDITIONAL ITEM BEFORE DOING THE WORK. THE CONTRACTOR SHALL HAVE THE OPPORTUNITY TO SUBMIT PRICING FOR ANY UNFORESEEN WORK NOT COVERED IN THE PLANS. ANY SUCH WORK SHOULD ONLY BE PERFORMED UPON THE ACCEPTANCE FOR THE PROPOSED PRICING BY THE OWNER IN WRITING.

7. FINISHES:

A. PAINTED STEEL COLOR TO BE COORDINATED WITH DSWM.

B. THE SCOPE OF WORK INCLUDES THE COMPLETE PAINT REMOVAL AND COATING OF THE EXISTING PREFABRICATED METAL BUILDING. LEAD PAINT IS ASSUMED TO BE PRESENT. CONTRACTOR MAY ANALYZE THE EXISTING PAINT FOR LEAD.

8. SUBMITTALS:

A. THE CONTRACTOR SHALL SUBMIT A PAINT REMOVAL CONTAINMENT SYSTEM PLAN FOR APPROVAL BY DSWM AND THE EOR SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

B. STEEL COATING SYSTEM

C. ANCHOR BOLTS AND EPOXY MATERIAL FOR ADHESIVE ANCHOR INSTALLATION.

D. STRUCTURAL STEEL SHOP DRAWINGS, INCLUDING BEAMS, COLUMNS, PLATES, ANGLES, BOLTS, NUTS WASHERS FOR THE PERMANENT AND TEMPORARY SUPPORT SYSTEMS.

E. NON-SHRINK GROUT (6,000 PSI MINIMUM COMPRESSIVE STRENGTH)

9. STRUCTURAL STEEL:

A. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS:

ROLLED SHAPES AND CHANNELS:	ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI
ANGLES FOR TRUSSES AND BRACES:	ASTM A36 MIN YIELD STRENGTH 36 KSI
MISCELLANEOUS ANGLES:	ASTM A36
HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE C, MIN YIELD STRENGTH 46 KSI FOR ROUND AND 50 KSI FOR RECTANGULAR HSS

B. CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:

- ANGLES: ASTM A36
- WTs: ASTM A992
- PLATES: ASTM A572, MIN YIELD STRENGTH 50 KSI
- BOLTS: ASTM A325
- NUTS: ASTM A563
- WASHERS: ASTM A463
- ANCHOR RODS: ASTM F1554 GRADE 55 WITH WELDABILITY SUPPLEMENT S1
- WELD ELECTRODES: E70XX

C. WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ANY NATURAL CAMBER IS UPWARD AFTER ERECTION.

D. CANTILEVERED BEAMS WITH NATURAL MILL CAMBER SHALL BE ERECTED SUCH THAT THE CAMBER IS ORIENTED DOWNWARD (OR CONCAVE UP).

E. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE EOR IN WRITING.

F. PERMANENT STEEL MEMBERS INSTALLED SHALL BE PAINTED. COLOR TO BE COORDINATED WITH OWNER.

G. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1 118' DIA. AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.

H. SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

I. FIELD MODIFICATIONS OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

J. THE CONTRACTOR SHALL SUBMIT A STEEL ERECTION PROCEDURE, PREPARED UNDER THE SUPERVISION OF THE SUBCONTRACTORS STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE LOCATION OF THE PROJECT FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

K. WHERE BEAM SHEAR IS NOT NOTED, DESIGN FOR 6K.

L. ALL CONNECTIONS HAVE BEEN DESIGNED FOR THE SPECIFIED SHEAR, MOMENT, AND AXIAL LOADS ON THE DRAWINGS. THE CONNECTIONS SHALL BE DESIGNED FOR LOAD REVERSAL. ALL CONNECTIONS FORCES SPECIFIED ON PLAN ARE ULTIMATE LEVEL FORCES UNLESS NOTED OTHERWISE.

M. ALTERNATIVE CONNECTION CONFIGURATIONS MAY BE SUBMITTED TO THE EOR FOR REVIEW AND APPROVAL. CONNECTIONS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS ARE TO FABRICATED AS SHOWN.

N. ALTERNATE CONNECTION DESIGNS SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATIONS AND THE BUILDING CODE. CONNECTIONS SHALL BE CAPABLE OF RESISTING VERTICAL AND HORIZONTAL LOADS LISTED ON THE DRAWINGS. CONNECTION DESIGN SHALL PROVIDE AN ADEQUATE LOAD PATH TO TRANSFER THE LOADS FROM EACH MEMBER, THROUGH THE CONNECTION, INTO THE SUPPORTING MEMBER, AND SHALL CONSIDER THE EFFECTS OF THE FORCES ON EACH MEMBER.

O. PROVIDE STIFFENER PLATES, WEB DOUBLER PLATES, FLANGE CONTINUITY PLATES, ETC, AS REQUIRED.

P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS THAT INCLUDE, BUT ARE NOT LIMITED TO ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS.

Q. A325 BOLT TIGHTENING REQUIREMENTS:

i. ALL HIGH STRENGTH BOLTS ARE A325T UNLESS SPECIFICALLY NOTED OTHERWISE.

ii. STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE TURN-OF-THE-NUT METHOD IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, RCSC-20 "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" .

R. THE REMOVAL OF EXISTING CORRODED STEEL SECTIONS SHALL BE PERFORMED BY MECHANICAL METHODS. TORCHING IS NOT PERMITTED UNLESS IF APPROVED BY THE EOR.

10. COATING OF EXISTING STRUCTURAL STEEL:

A. FIELD PREPARATION AND APPLICATION: FOR THE SURFACE PREPARATION OF STEEL AND APPLICATION OF COATINGS, SUBMIT A CURRENT SSPC QP1 OR NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE) INTERNATIONAL INSTITUTE CONTRACTOR ACCREDITATION PROGRAM (NIICAP) AS-1F CERTIFICATION WITH CORPORATE QC PLAN THAT WAS REVIEWED BY SSPC OR NIICAP UNDER THE CURRENT CERTIFICATION AND A SITE SPECIFIC COATING PLAN TO THE EOR AT LEAST 14 CALENDAR DAYS PRIOR TO BEGINNING COATINGS WORK.

B. FOR THE REMOVAL OF HAZARDOUS COATINGS, SUBMIT A CURRENT SSPC QP2 CERTIFICATION WITH THE CORPORATE QC PLAN THAT WAS REVIEWED BY SSPC UNDER THE CURRENT CERTIFICATION AND A STIE SPECIFIC COATING PLAN TO THE EOR AT LEAST 14 CALENDAR DAYS PRIOR TO BEGINNING COATINGS WORK.

C. DO NOT BEGIN COATINGS WORK UNTIL THE SITE SPECIFIC COATING PLAN HAS BEEN APPROVED BY THE ENGINEER.

D. ABRASIVE BLAST CLEANING: PREPARE STEEL BY ABRASIVE BLAST CLEANING TO "NEAR-WHITE" METAL CONDITION AS DEFINED IN SSPC-SP 10, USE SSPC VIS 1 AS AN AID IN ESTABLISHING CLEANLINESS. AFTER ABRASIVE BLAST CLEANING, ENSURE THE SURFACE PROFILE MEETS THE REQUIREMENTS OF THE COATING MANUFACTURER'S PRODUCT DATA SHEET. DETERMINE THE SURFACE PROFILE IN ACCORDANCE WITH ASTM D4417, METHOD B OR C.

E. PERFORM ALL ABRASIVE BLAST CLEANING WITHIN A CONTAINMENT SYSTEM TO ENSURE CONFINEMENT OF ALL PARTICULATES. THE CONTAINMENT SYSTEM SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

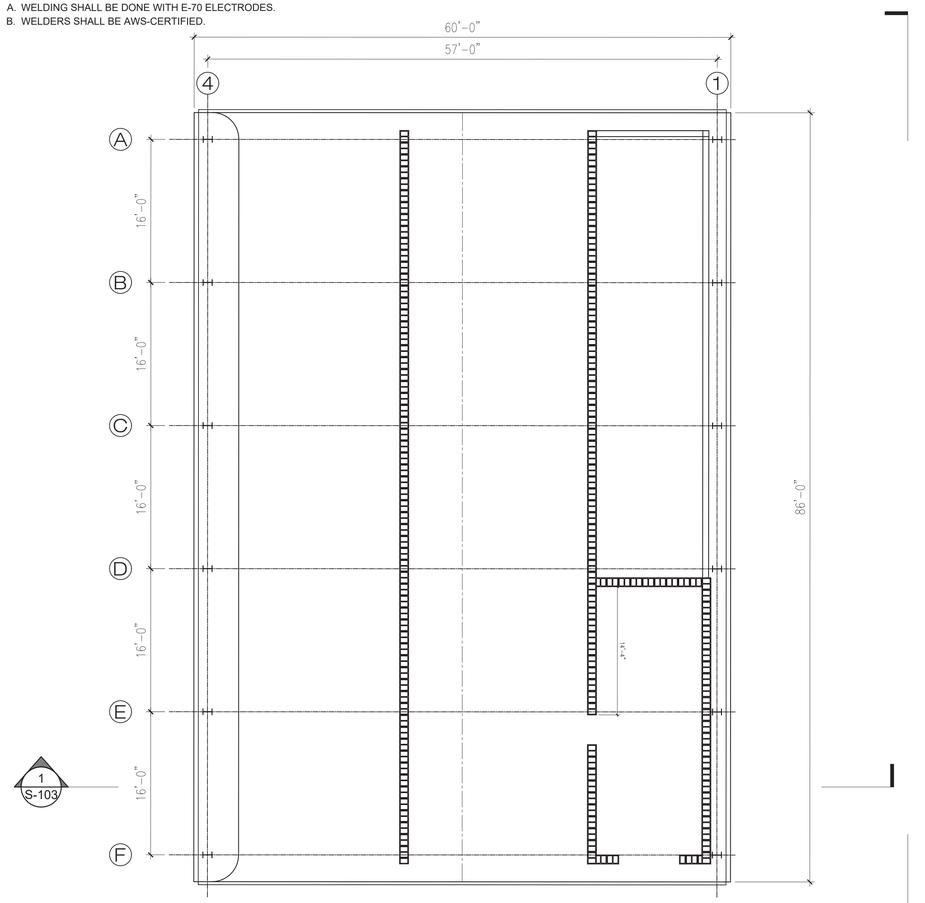
F. HAND AND POWER TOOL CLEANING: PREPARE STEEL BY POWER AND HAND TOOL CLEANING AS DEFINED IN SSPC-SP 11, SSPC-SP 15, SSPC-SP 3, AND SSPC-SP 2 FOR TOUCH UP AND REPAIR WHEN APPROVED BY THE EOR. USE SSPC-VIS 3 AS AN AID IN ESTABLISHING CLEANLINESS.

G. PRESENCE OF LEAD IS ASSUMED. THE CONTRACTOR SHALL COMPLY WITH ENVIRONMENTAL REGULATIONS FOR LEAD REMOVAL. REFER TO FDOT SPECIFICATION SECTION 561.

11. COATING NEW STRUCTURAL STEEL: THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF SECTION 099713 - STEEL COATINGS OF THE PROJECT SPECIFICATIONS.

12. WELDING:

A. WELDING SHALL BE DONE WITH E-70 ELECTRODES.
B. WELDERS SHALL BE AWS-CERTIFIED.



NETS TRUCK WASH CENTER PLAN

Approvals

CHROME ENGINEERING, INC.
CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

MIAMI-DADE COUNTY

Project Info:
Miami-Dade County Department of Solid Waste Management (DSWM)
NORTH TRANSFER STATION (NETS)
TRUCK WASH BUILDING
REPAIRS
EDP Contract: EDP-SW-18601-25

Key Plan:

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PROFESSIONAL ENGINEER

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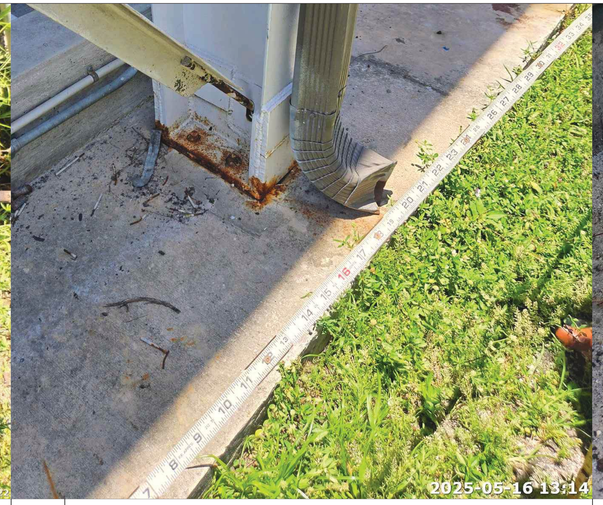
25-25
SCALE:
AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE:
GENERAL NOTES
SHEET NO.
S-101

1 COLUMN 1A

2 COLUMN 1B



3 COLUMN 1C

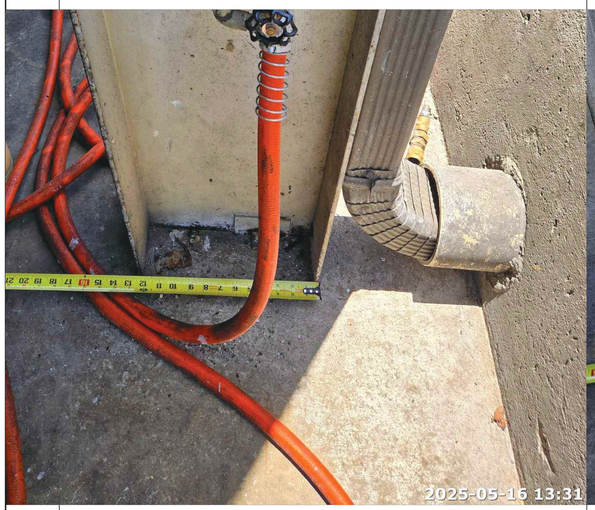
4 COLUMN 1D

5 COLUMN 1E

6 COLUMN 1F

7 COLUMN 4A

8 COLUMN 4B



9 COLUMN 4C

10 COLUMN 4D

11 COLUMN 4E

12 COLUMN 4F

Approvals

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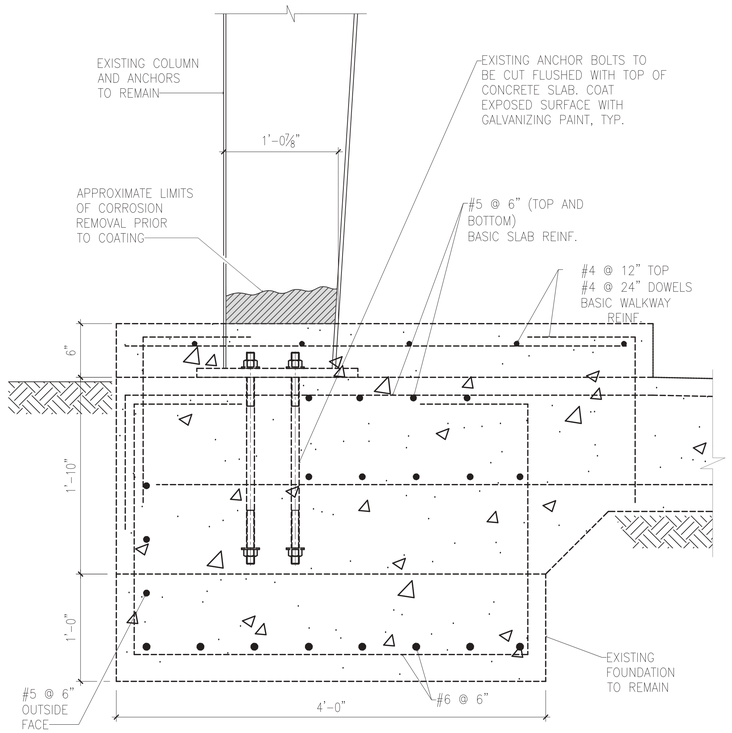
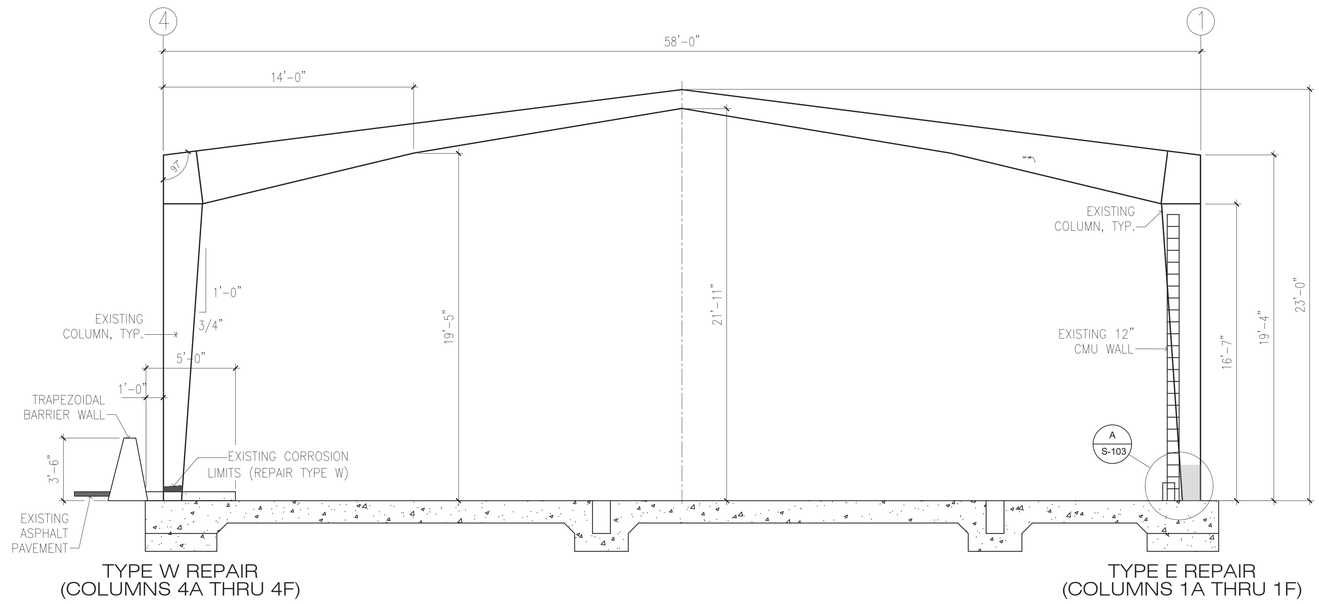
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE:
DAMAGE PHOTOS
SHEET NO.
S-102



TYPE W REPAIR - COLUMNS 4A THRU 4F

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

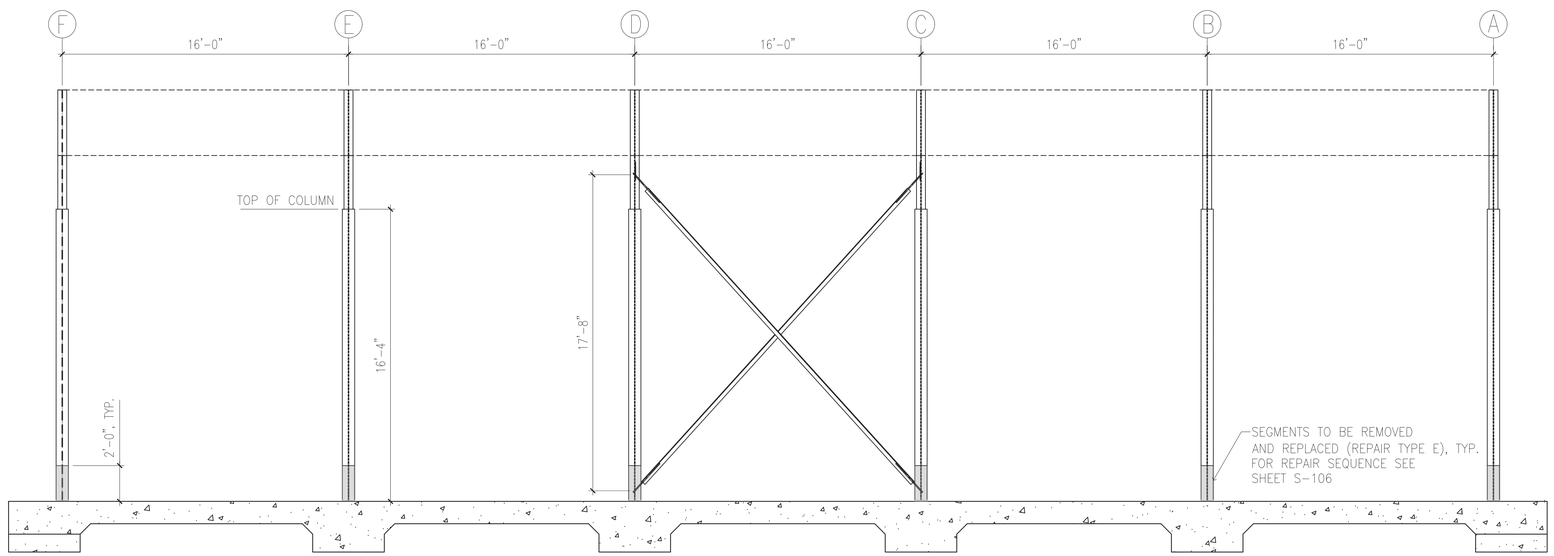


TYPE W REPAIR (COLUMNS 4A THRU 4F)

TYPE E REPAIR (COLUMNS 1A THRU 1F)

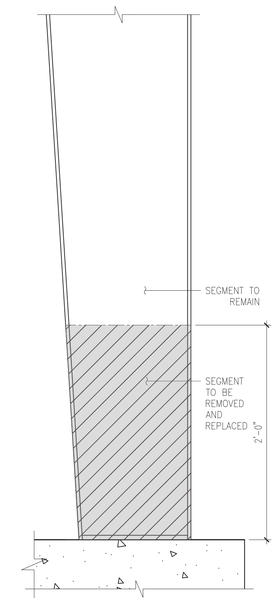
1 STRUCTURAL STEEL- EXISTING SECTION (VIEW FROM SOUTH SIDE)

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



2 STRUCTURAL STEEL - EXISTING SECTION (VIEW FROM EAST SIDE)

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



A TYPE E REPAIR - DEMOLITION

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

Approvals

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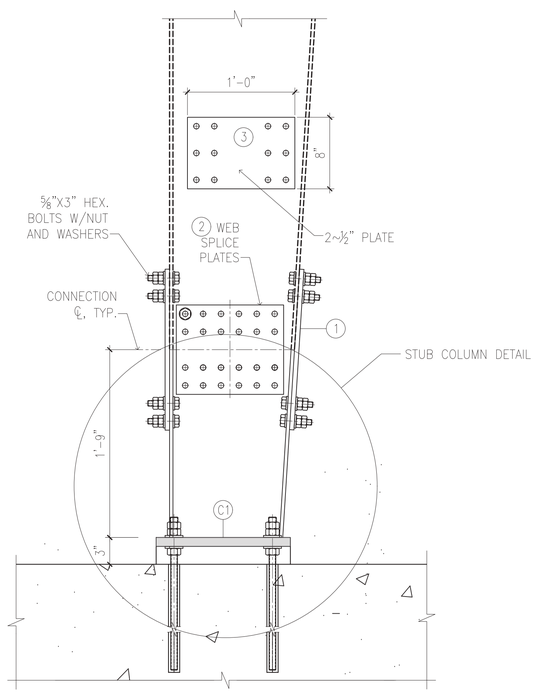
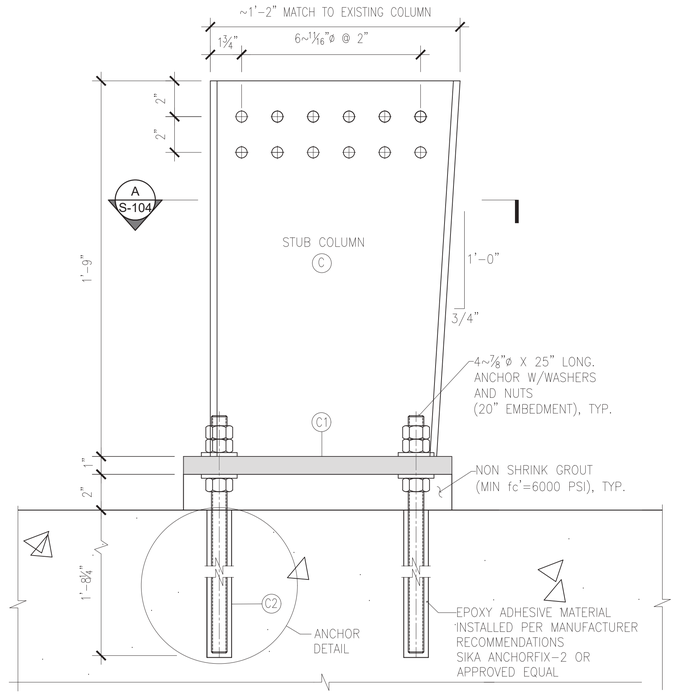
CHROME ENGINEERING PROJECT NO.: 25-25
SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: COLUMN REPAIR DETAILS (1 OF 3)
SHEET NO.

S-103



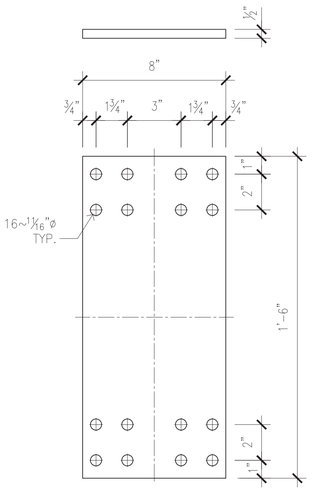
REPAIR TYPE E (COLUMNS 1A THRU 1F)

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

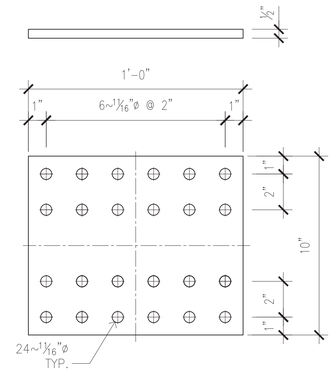


REPAIR TYPE E - STUB COLUMN DETAIL

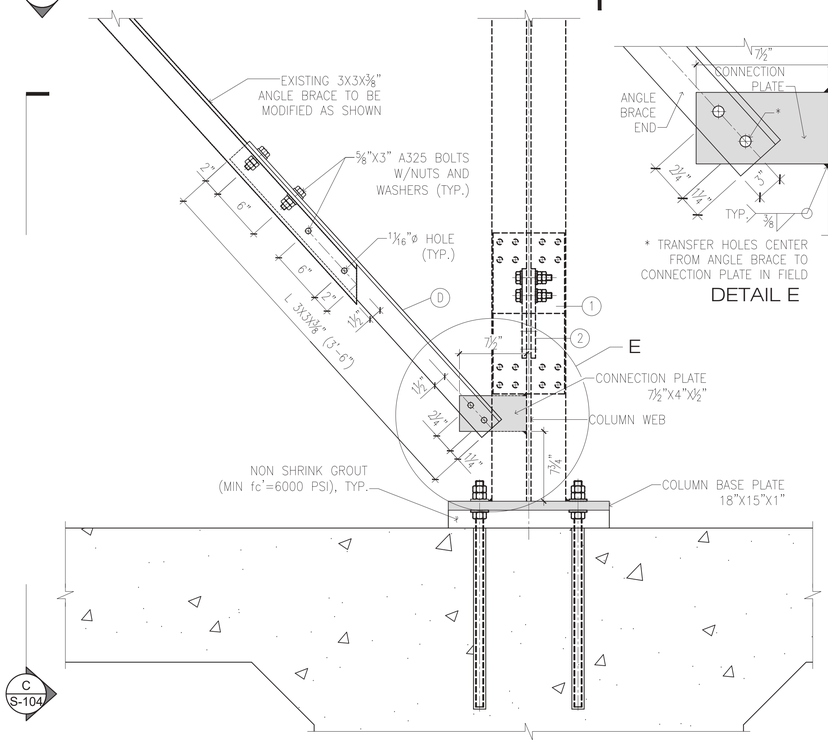
SCALE 3" = 1'-0"



1 FLANGE SPLICE PLATE



2 WEB SPLICE PLATE

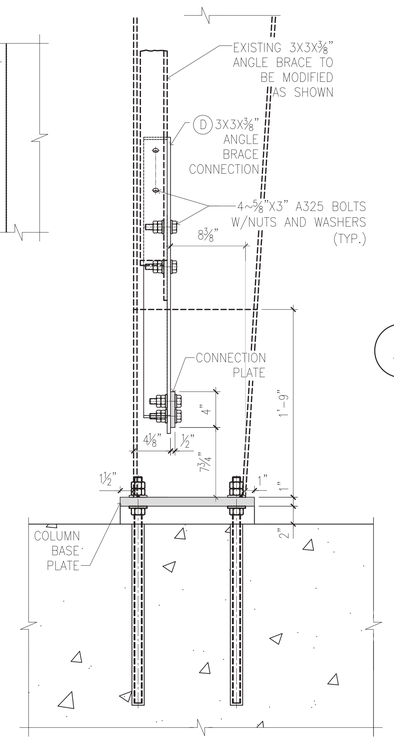


COLUMNS 1C AND 1D (MIRROR) - FRONT ELEVATION

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

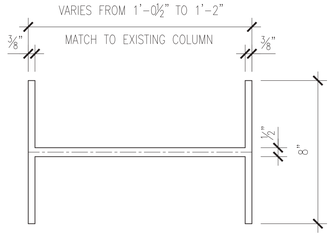
* TRANSFER HOLES CENTER FROM ANGLE BRACE TO CONNECTION PLATE IN FIELD

DETAIL E



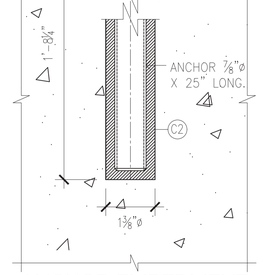
SIDE ELEVATION

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

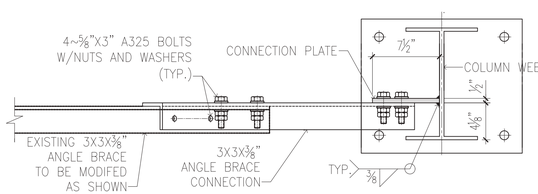


STUB COLUMN - SECTION

SCALE: 3" = 1'-0"

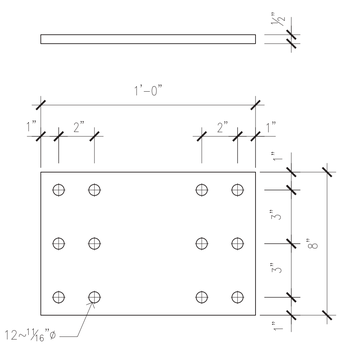


ANCHOR EMBEDMENT DETAIL

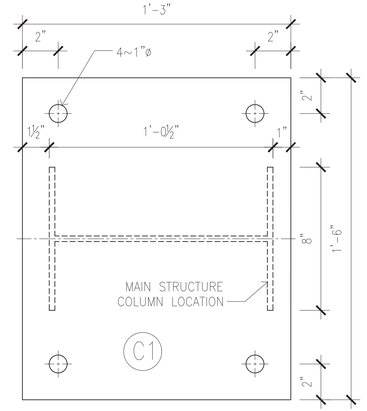


ANGLE BRACE CONNECTION - PLAN

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



3 WEB HOLES COVER PLATE



C1 COLUMN BASE PLATE

Approvals

CHROME ENGINEERING, INC.

CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

MIAMI-DADE COUNTY

Project Info:
Miami-Dade County Department of Solid Waste Management (DSWM)

NORTH TRANSFER STATION (NETS)
TRUCK WASH BUILDING
REPAIRS

EDP Contract: EDP-SW-18601-25

Key Plan:

Seal:

OSCAR J. CRUZ
No.63889
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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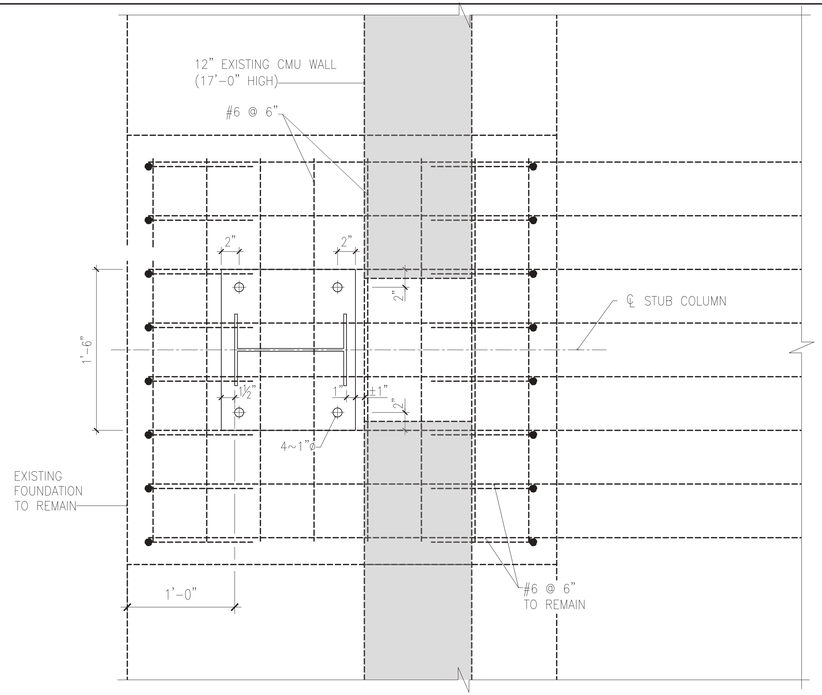
NO.	REVISIONS	DATE

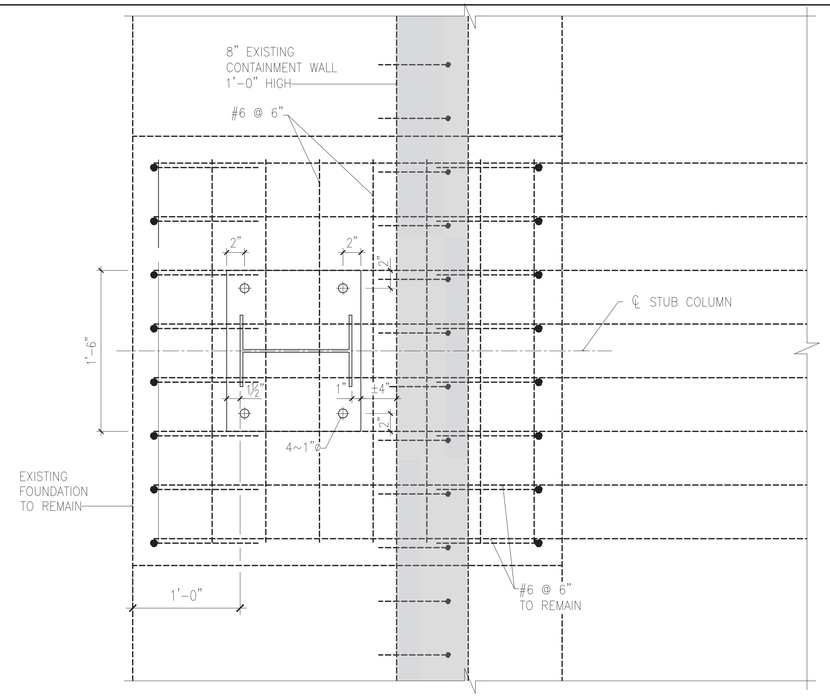
PROJECT PHASE: 100% CD SET 10/02/2025
ISSUED DATE: 05/27/2025
CHROME ENGINEERING PROJECT NO.: 25-25
SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: COLUMN REPAIR DETAILS (2 OF 3)
SHEET NO.

S-104



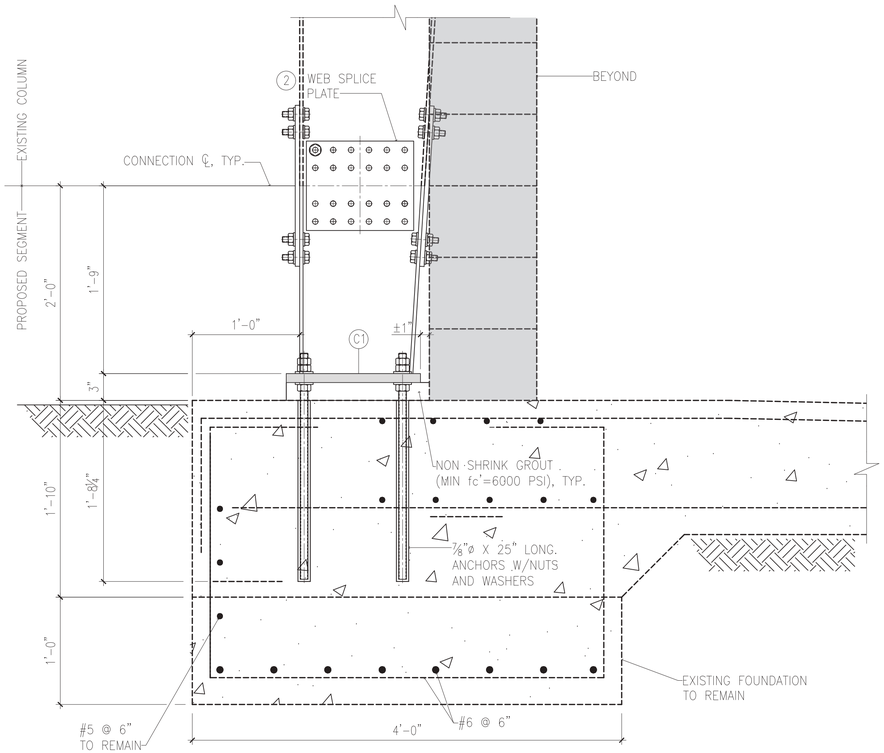
COLUMNS 1F & 1E REPAIR - PLAN

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



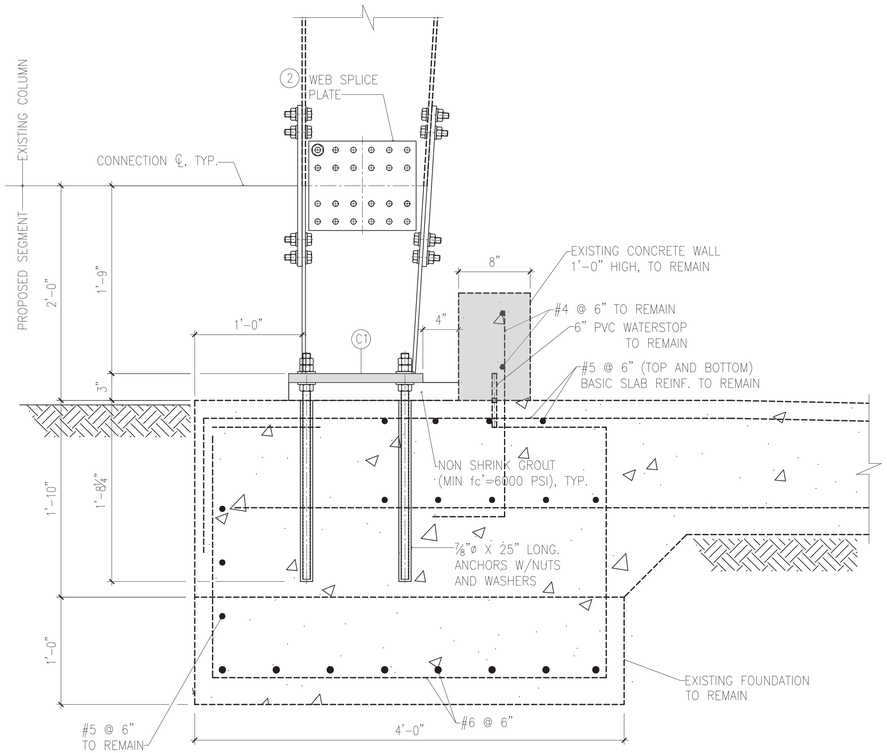
COLUMNS 1A, 1B, 1C & 1D REPAIR - PLAN

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



COLUMNS 1F & 1E REPAIR - ELEVATION

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



COLUMNS 1A, 1B, 1C & 1D REPAIR - ELEVATION

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

Approvals

CHROME ENGINEERING, INC.
CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

MIAMI-DADE COUNTY

Project Info:
Miami-Dade County Department of Solid Waste Management (DSWM)

NORTH TRANSFER STATION (NETS)
TRUCK WASH BUILDING
REPAIRS

EDP Contract: EDP-SW-18601-25

Key Plan:

Seal:

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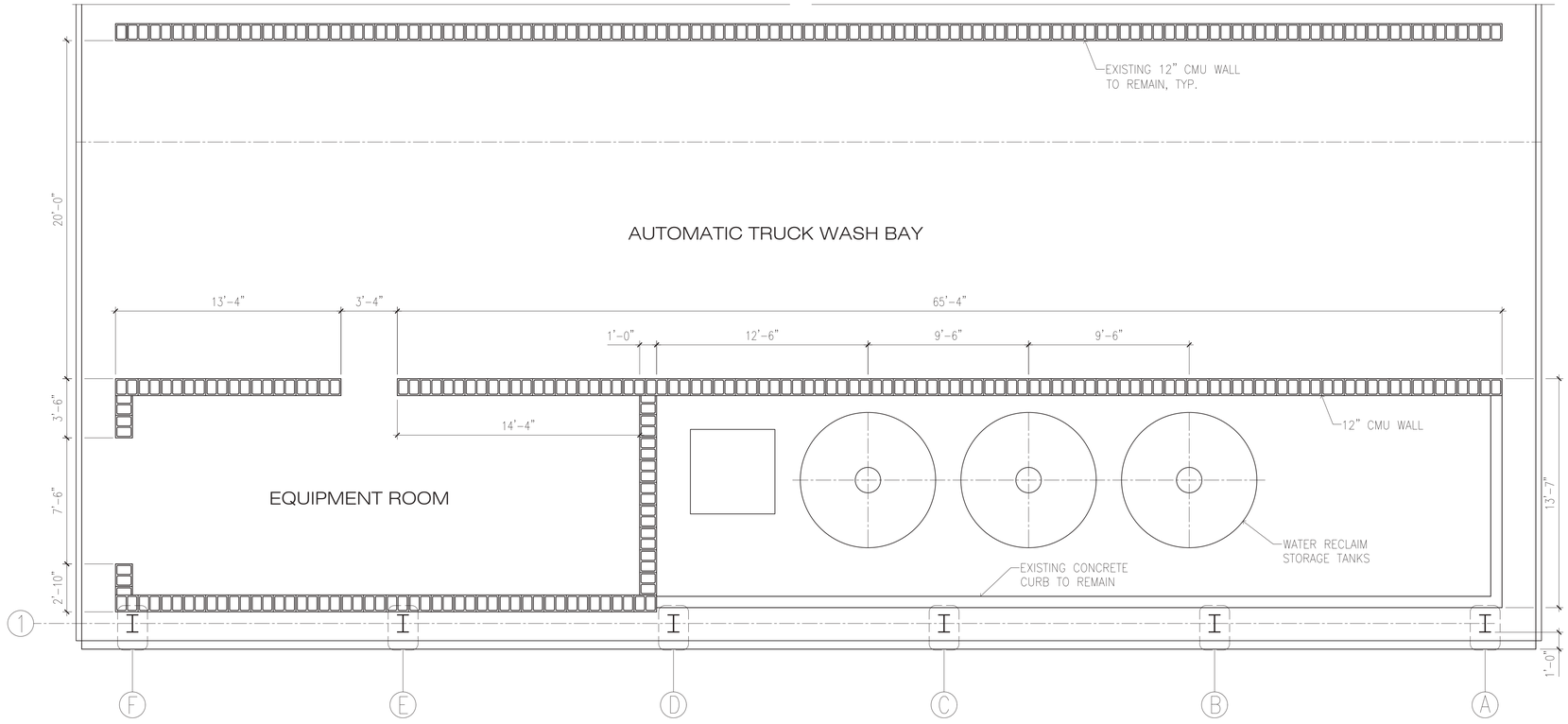
ISSUED DATE: 05/27/2025
CHROME ENGINEERING PROJECT NO.: 25-25
SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: COLUMN REPAIR DETAILS (3 OF 3)
SHEET NO.

S-105



Z COLUMNS REPAIR TYPE E - PLAN

SCALE 1/4" = 1'-0"

BILL OF MATERIALS			
ID	DESCRIPTION	NO.	SIZE
1	COLUMN FLANGE SPLICE PLATE	12	18" X 8" X 1/2"
2	COLUMN WEB SPLICE PLATE	12	12" X 10" X 1/2"
3	WEB HOLES COVER PLATE	12	12" X 8" X 1/2"
C1	COLUMN BASE PLATE	6	18" X 15" X 1"
C2	ANCHOR BOLTS / NUTS & WASHERS	24	7/8" DIA. X 25" L
D	ANGLE BRACE CONNECTION	2	3"X3"X3/8"X 3'-6" L

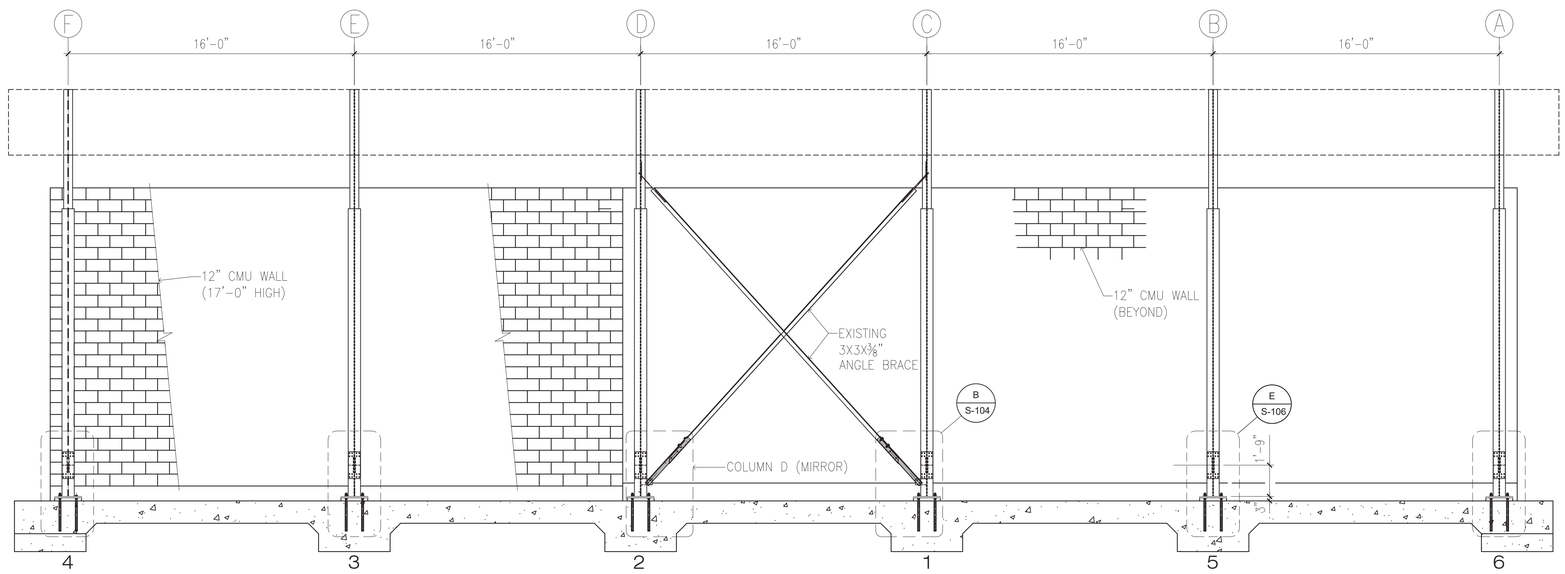
BILL OF MATERIALS (BOLTS)			
ID	DESCRIPTION	NO. SETS *	SIZE
1	FLANGE SPLICE PLATES	192	5/8" DIA. X 3"
2	WEB SPLICE PLATES	144	5/8" DIA. X 3 1/2"
3	WEB HOLES COVER PLATES	72	5/8" DIA. X 3 1/2"
D	ANGLE BRACE CONNECTION	12	5/8" DIA. X 3"

* ALL SETS INCLUDE ONE BOLT AND DOUBLE NUTS AND WASHERS

COLUMN REPAIR SEQUENCE	
SEQUENCE	COLUMN NO.
1	1C
2	1D
3	1E
4	1F
5	1B
6	1A

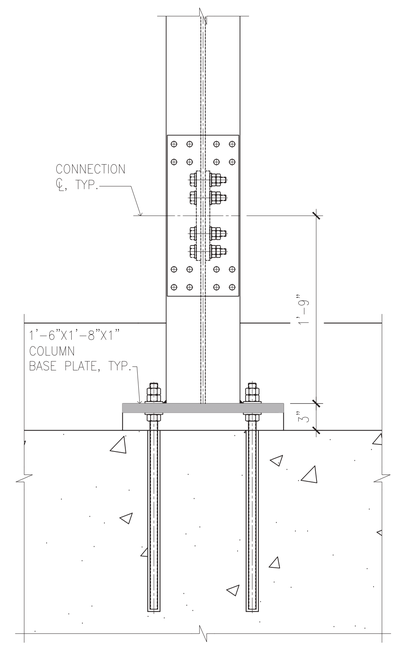
REPAIR SEQUENCE NOTES:

1. REPAIR COLUMN LINES WITH DIAGONAL BRACING FIRST.
2. CONTRACTOR MAY SUBMIT AN ALTERNATE REPAIR SEQUENCE FOR APPROVAL.



3 PROPOSED STRUCTURAL STEEL - SECTION (VIEW FROM EAST SIDE)

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



E COLUMNS 1A, 1B, 1E & 1F (TYP.)

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

Approvals

CHROME ENGINEERING, INC.
CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

MIAMI-DADE COUNTY

Project Info:
Miami-Dade County Department of Solid Waste Management (DSWM)
NORTH TRANSFER STATION (NETS)
TRUCK WASH BUILDING
REPAIRS
EDP Contract: EDP-SW-18601-25

Key Plan:

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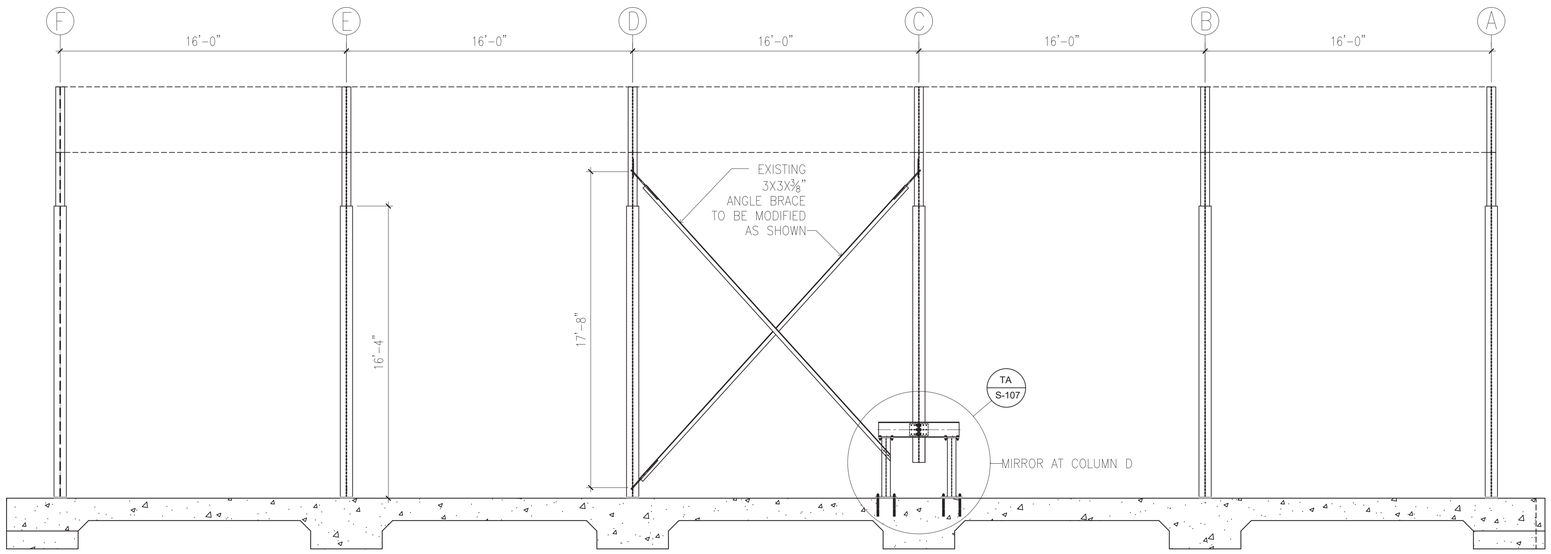
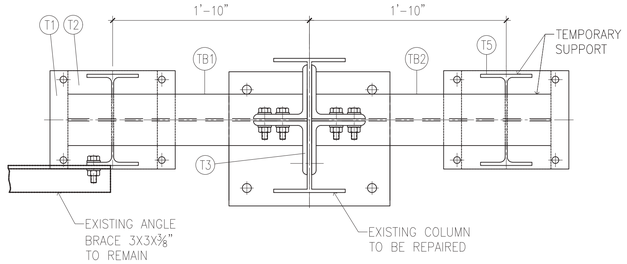
100% CD SET 10/02/2025
ISSUED DATE:
05/27/2025
CHROME ENGINEERING PROJECT NO.:
25-25
SCALE:
AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE:
ANGLE BRACE CONNECTION
SHEET NO.
S-106



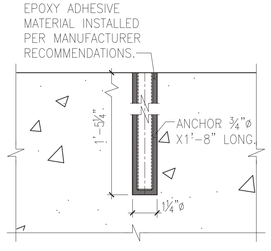
4 TEMPORARY STRUCTURE SUPPORT BRACKET - ANGLE BRACE SECTION (VIEW FROM EAST SIDE)

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



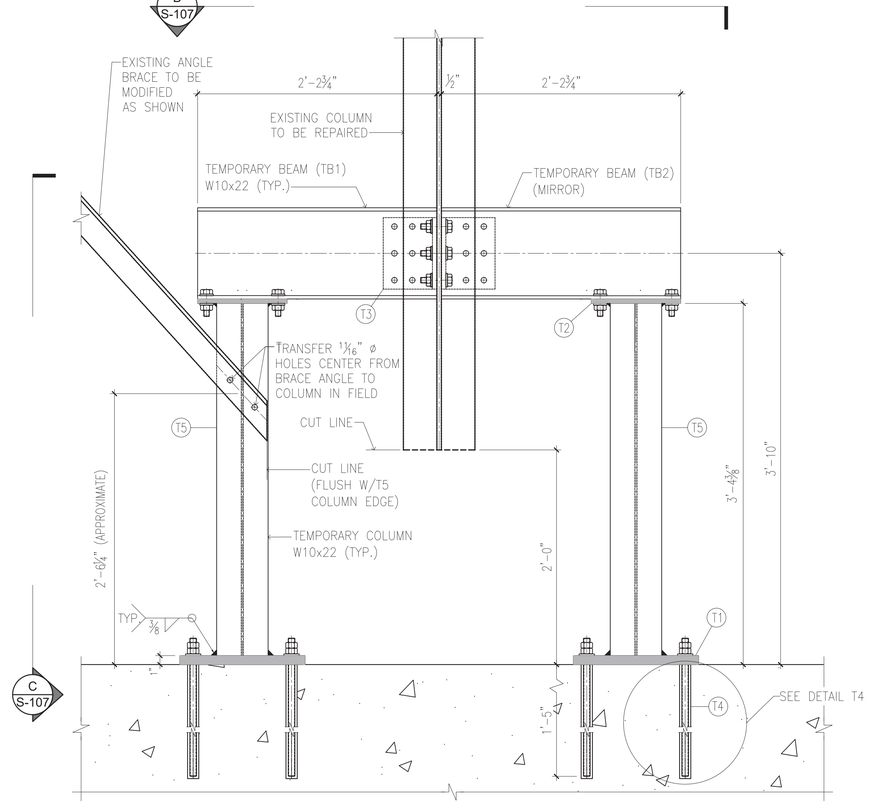
B TEMPORARY SUPPORT BRACKET - PLAN

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



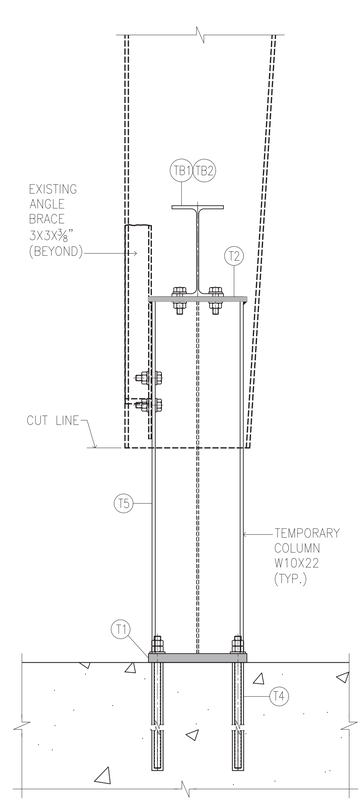
T4 TEMPORARY ANCHOR EMBEDMENT (TYP.)

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



TA TEMPORARY SUPPORT BRACKET - FRONT ELEVATION

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



C SIDE ELEVATION

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

Approvals

CHROME ENGINEERING, INC.
CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

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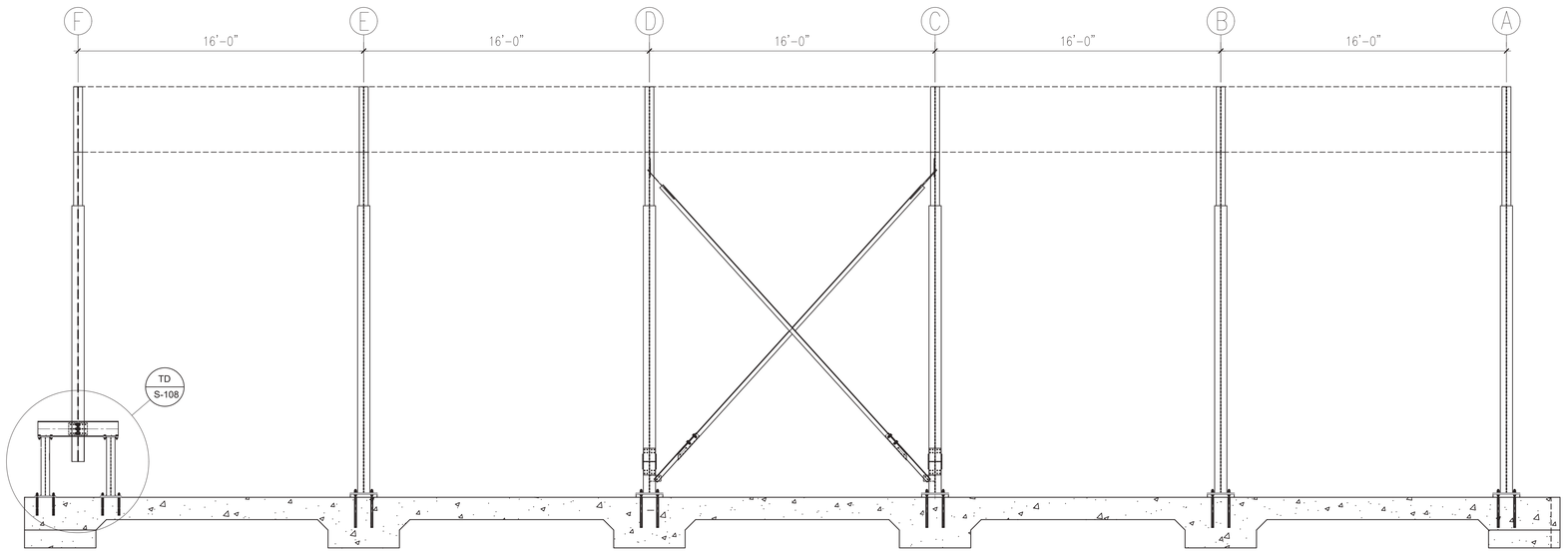
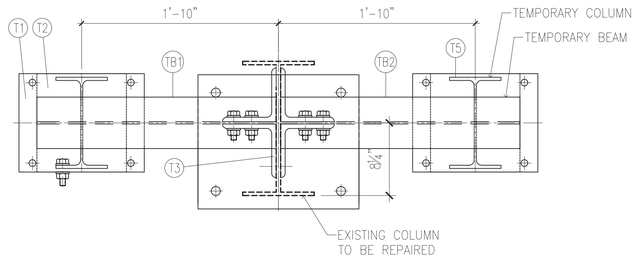
CHROME ENGINEERING PROJECT NO.: 25-25
SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: TEMPORARY BRACING DETAILS (1 OF 3)
SHEET NO.: S-107



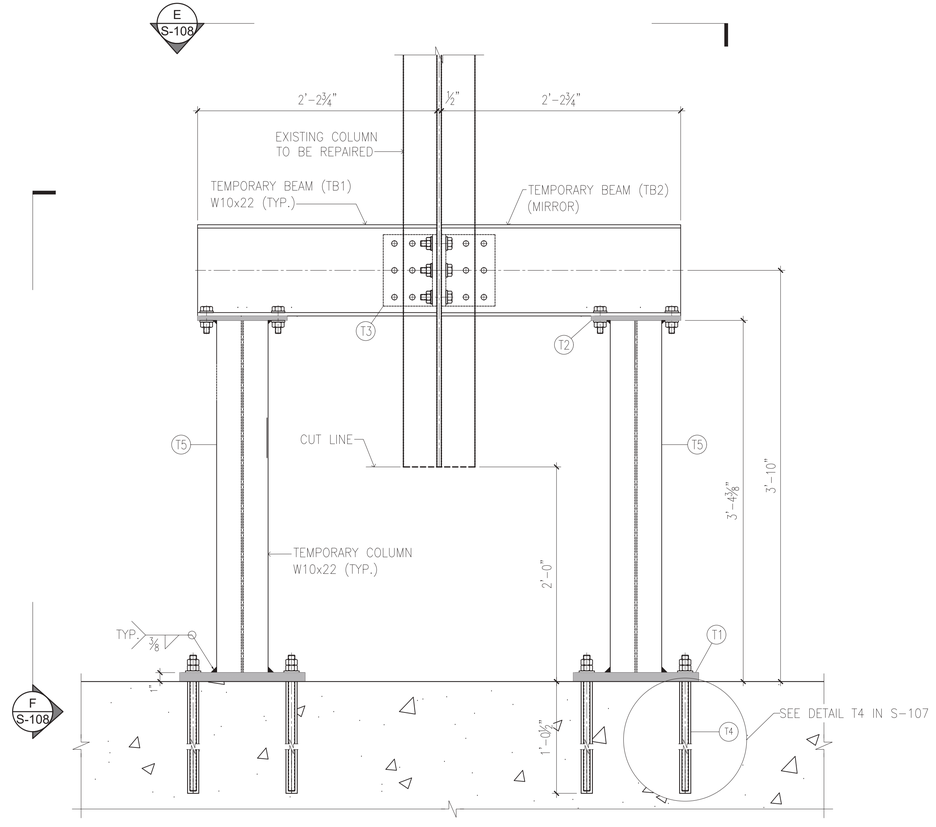
5 TEMPORARY STRUCTURE SUPPORT BRACKET - SECTION (VIEW FROM EAST SIDE)

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



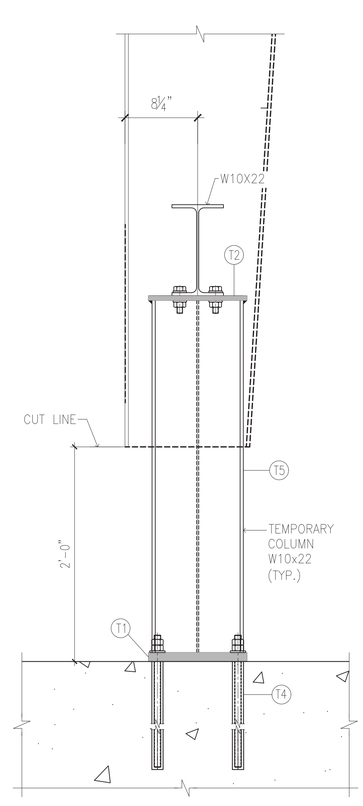
E TEMPORARY STRUCTURE SUPPORT - PLAN

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



TD TEMPORARY SUPPORT BRACKET

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



F SIDE ELEVATION

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

Approvals

CHROME ENGINEERING, INC.

CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
16650 SW 88TH STREET, SUITE 205 |
MIAMI, FL 33196 | 305.432.6826

Client:

MIAMI-DADE COUNTY

Project Info:
Miami-Dade County Department of Solid Waste Management (DSWM)

NORTH TRANSFER STATION (NETS)
TRUCK WASH BUILDING
REPAIRS

EDP Contract: EDP-SW-18601-25

Key Plan:

N

Seal:

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No.63889
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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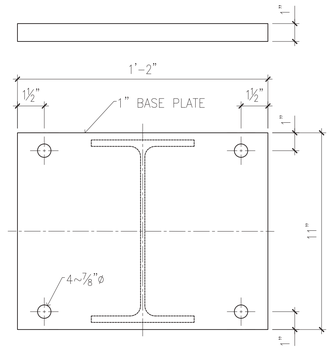
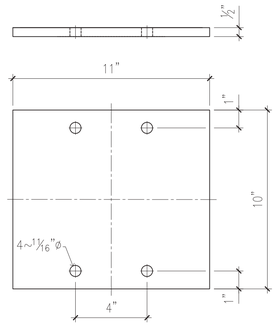
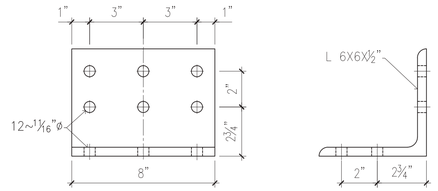
CHROME ENGINEERING PROJECT NO.: 25-25
SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: TEMPORARY BRACING DETAILS (2 OF 3)
SHEET NO.: S-108



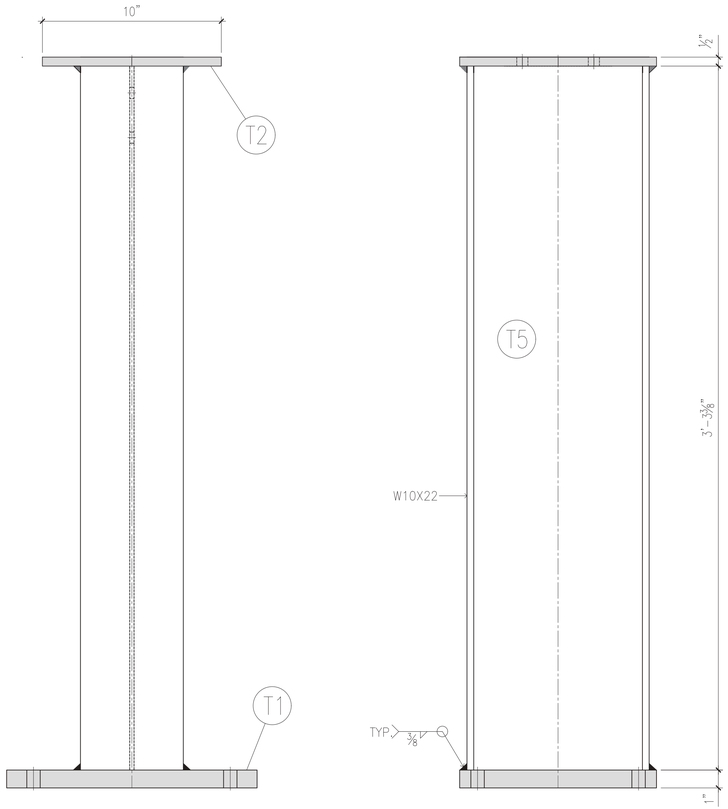
T1 TEMPORARY BASE PLATE



T2 PLATE - CONNECTION TO TB BEAMS

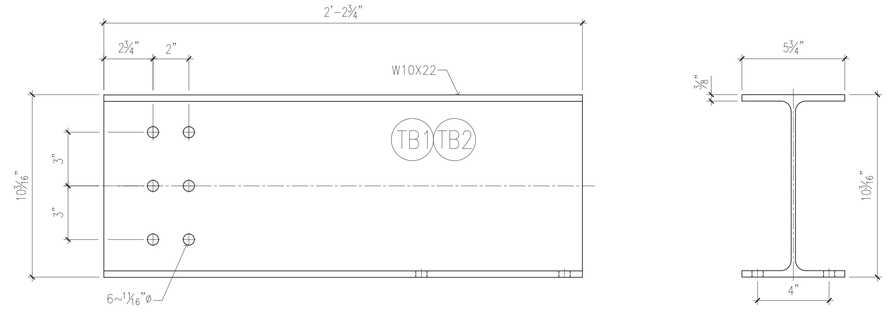


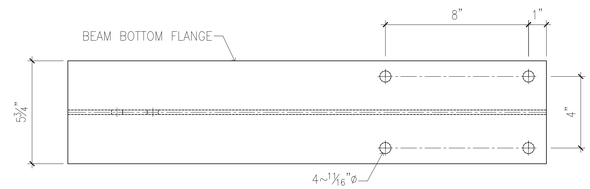
T3 ANGLE - CONNECTION TO COLUMN WEB



TEMPORARY SUPPORT - T5 COLUMNS

SCALE 3" = 1'-0"





TEMPORARY SUPPORT - TB1 & TB2 BEAMS

SCALE 3" = 1'-0"

BILL OF MATERIALS			
ID	DESCRIPTION	NO.	SIZE
T1	TEMPORARY BASE PLATES	2	14" X 11" X 1"
T2	TEMPORARY CONNECTION PLATES	2	11" X 10" X 1/2"
T3	TEMPORARY CONNECTION ANGLE	4	6"X6"X1/2" X 8" L
T4	ANCHOR BOLTS W/NUTS & WASHERS	8	3/4" DIA. X 20" L
T5	TEMPORARY COLUMNS	2	W10X22
TB	TEMPORARY BEAMS (TB1 & TB2)	2	W10X22

Approvals

CHROME ENGINEERING, INC.
CHROME ENGINEERING, INC
OSCAR J. CRUZ, P.E. | FL REG. CA32981 |
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SCALE: AS SHOWN
DRAWN BY: FC
APPROVED BY: OC
DRAWING TITLE: TEMPORARY BRACING DETAILS (3 OF 3)
SHEET NO.

S-109

MIAMI-DADE COUNTY, FLORIDA DEPARTMENT OF SOLID WASTE MANAGEMENT			
RECOMMENDED SENIOR PROFESSIONAL ENGINEER	APPROVED ASSISTANT DIRECTOR	APPROVED DEPUTY DIRECTOR	APPROVED DIRECTOR
DATE	DATE	DATE	DATE

BOARD OF COMMISSIONERS

Alexander Penelas
Mayor

Gwen Margolis
ChairPerson

Steve Shiver
County Manager

Robert A. Ginsburg
County Attorney

Betty T. Fergunson
District 1

Dorrin D. Rolle
District 2

Dr. Barbara M. Carey–Shuler
District 3

Gwen Margolis
District 4

Bruno A. Barreiro
District 5

Rebeca Sosa
District 6

Jimmy Morales
District 7

Katy Sorenson
District 8

Dennis C. Moss
District 9

Javier D. Souto
District 10

Joe Martinez
District 11

Dr. Miriam Alonzo
District 12

Natacha Seijas Millan
District 13

METRO–DADE

MIAMI-DADE COUNTY, FLORIDA
DEPARTMENT OF SOLID WASTE MANAGEMENT

SHOP 3A (NORTH)
TRUCK WASH CENTER
18701 NE 6th AVENUE
MIAMI, FLORIDA

PROJECT No. 20122.00-3A

LEGAL DESCRIPTION

SECTION 6, TOWNSHIP 52, RANGE 42. 11 AC M/L. ALL THAT PORTION OF THE S1/2 OF NW 1/4 OF SE 1/4 LYG SWLY OF A LINE 205FT SW OF A PARR TO C/L SNAKE CREEK CANAL &NWLY OF SAL R/W

SITE DATA

COUNTY FLOOD CRITERIA ELEVATION = 6'
WATER TABLE ELEVATION AVG. OCT. = 2.0'
FLOOD ZONE INFORMATION BASED ON NATIONAL FLOOD MAPS
COMMUNITY 12025
PANEL C0083
SUFFIX J
REVISED MARCH 2, 1994
ZONED "AE"

FLOOD LEGEND
Commercial, Industrial

FOLIO: 30-2206-000-0121 ADDRESS: 18701 NE 6th AVENUE, MIAMI, FLORIDA 33128

LOT: _____ BLOCK: _____ SUBDIVISION: _____

PLAT BOOK: _____ PAGE: _____ MEETS & BOUND: _____

SEE LOCATION MAP AND LEGAL DESCRIPTION THIS SHEET.

CROWN OF ROAD ELEV.: 7.50 FT.NGVD. CROWN OF ROAD ELEVATION WAS TAKEN FROM A CERTIFIED SURVEY PREPARED BY: _____ (SURVEYOR'S NAME) PLS LIC.#: _____

_____ (IF>2 ACRES IMPERVIOUS PLANS SHALL BE STAMPED WITH THE DERM/ WATER CONTROL SECTION APPROVAL)

DERM/WC – SURFACE WATER MANAGEMENT STORMWATER PERMIT (COPY ATTACHED) N/A

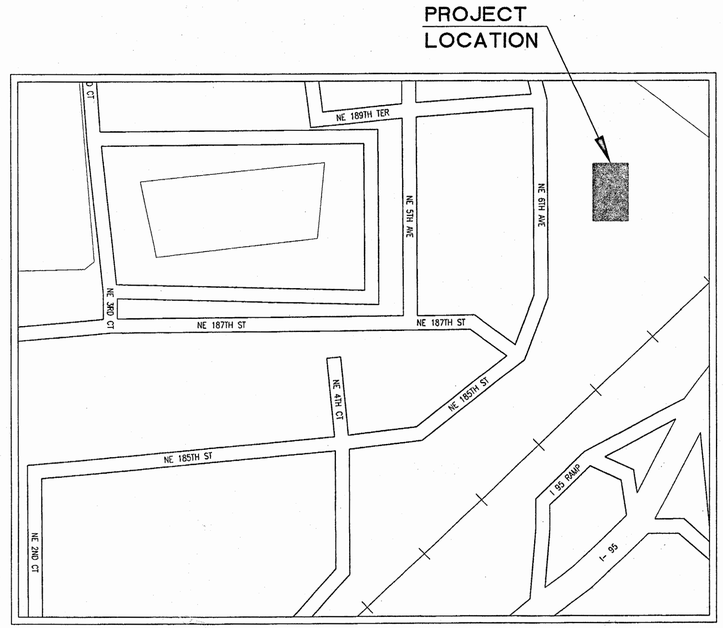
SFWMD – ENVIRONMENTAL RESOURCES PERMIT (COPY ATTACHED) N/A

TOTAL IMPERVIOUS AREA: 0.22 UNDERGROUND PARKING: YES/(NO) (CIRCLE ONE)
IF YES, FLOODPROOFING PLANS AND CERTIFICATE SHALL BE ATTACHED
BASEMENT: YES/(NO) (CIRCLE ONE)

HAVE THIS SITE OR OTHER PORTIONS OF THIS PROPERTY BEEN GRANTED A CLOMR OR FINAL LOMR? (CIRCLE ONE) YES LOMR#: _____ (NO)

	Lowest Floor Elev.(including basement/sunken areas)		Adjacent Grade Elevation (next to the wall of the structure)		Catch Basin Elevation	
PROPOSED	8.4	FT. NGVD	8.25	FT. NGVD	N/A	FT. NGVD

0' – 0" = NGVD



LOCATION MAP
SCALE: 1" = 300'

INDEX OF SHEETS

N/E Transfer Station

PLOT DATE: 02-22-02 CP: Z:/PROJECTS/20122.00/AUTOCAD/CIVIL/3A/COVER.DWG

REVISIONS		
DATE	BY	DESCRIPTION

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BY: _____
ALEX VAZQUEZ
CIVIL ENGINEER
42108 STATE OF FL.

METRO–DADE
METRO DADE COUNTY, FLORIDA
DEPARTMENT OF SOLID WASTE MANAGEMENT
8675 NORTHWEST 53rd STREET, SUITE 201
MIAMI, FLORIDA 33166

DATE:	SCALE:	CADD FILE:
02-22-02	N.T.S.	COVER.DWG
DESIGN BY:	**DRAWN BY:**	**CHECKED BY:**
A.V.	E.N.	A.D.A.

SHOP 3A (NORTH)
TRUCK WASH CENTER
COVER SHEET

LEGEND

•	EXISTING BOLLARDS
○	EXISTING POST INDICATOR VALVE
Ⓜ	EXISTING MANHOLE
▥	EXISTING CATCH BASIN
○ FH	EXISTING FIRE HYDRANT
▣ WM	EXISTING WATER METER
▫ CLP	EXISTING CONCRETE LIGHT POLE
▫ EB	EXISTING ELECTRICAL BOX
⟋	EXISTING BACK FLOW PREVENTOR
⋈ WV	EXISTING WATER VALVE
▫ CO	EXISTING CLEAN OUT
13.5	EXISTING ELEVATION
	EXISTING CONCRETE
—x—x—	EXISTING CHAIN LINK FENCE
	EXISTING ASPHALT TO BE REMOVED
—x—x—	PROPOSED CHAIN LINK FENCE
•	PROPOSED BOLLARDS
11.0	PROPOSED ELEVATIONS
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED GRATING
— — —	CONSTRUCTION BASE LINE
PROP.	PROPOSED
C–C	CENTER TO CENTER
CONC.	CONCRETE
CONT.	CONTINUOUS
EXIST.	EXISTING
LF	LINEAR FEET
MAX.	MAXIMUM
MDCPWD	MIAMI–DADE COUNTY PUBLIC WORKS DEPARTMENT
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
O–C	ON CENTER
PAVMT.	PAVEMENT
TYP	TYPICAL

GENERAL NOTES:

1. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN. HOWEVER NEITHER THE ENGINEER NOR THE OWNER GUARANTEE THEIR ACCURACY. BASED UPON THE BEST AVAILABLE INFORMATION, THE CONTRACTOR SHALL BE REQUIRED TO MARK AND CLEARLY DELINEATE LOCATIONS OF UTILITIES WITHIN AREAS OF WORK PRIOR TO EXCAVATION TO AVOID DAMAGES. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO LOCATE, IDENTIFY AND MARK EXISTING UTILITIES BY FIELD VERIFICATION, COORDINATION WITH UTILITY COMPANIES AND ELECTRONIC OR OTHER SUCH DETECTION TECHNOLOGY AND MEANS AND SHALL BEAR ALL COSTS FOR THIS WORK.
2. THE CONTRACTOR MUST HAND EXCAVATE AROUND AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE EXPECTED OR SUSPECTED IN ORDER TO AVOID DAMAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND COSTS TO CORRECT DAMAGES RESULTING FROM FAILURE TO TAKE ALL NECESSARY PRECAUTIONS INCLUDING LOCATING, MARKING AND CAREFUL EXCAVATION.
3. ALL AREAS WHERE NEW IMPROVEMENTS ARE PROPOSED SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE TOWARDS EXISTING CATCH BASIN. CONTRACTOR SHALL SOD ALL AREAS DISTURBED BY THE WORK UPON COMPLETION OF FINISH GRADING. FINISHED GRADE SHALL BE TOP OF SOD ELEVATION.
4. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
5. IT IS THE OBLIGATION OF THE BIDDER OR THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION AND SATISFY HIMSELF FULLY OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. FAILURE TO DO SO WILL NOT RELIEVE HIM OF HIS OBLIGATION TO COMPLETE THE WORK FULLY AND ACCEPTABLE TO THE ENGINEER AND THE OWNER FOR THE CONSIDERATION SET FORTH IN HIS BID.
6. ALL EXISTING TOPOGRAPHIC DATA OBTAINED FROM TOPOGRAPHICAL SURVEY BY CAMPANILE AND ASSOCIATES, DATED JULY 12, 2001.
7. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM PRINTS FOR CONSTRUCTION PURPOSES.
8. BASELINE OF CONSTRUCTION SHALL BE ESTABLISHED BY THE CONTRACTOR AS DEDICTED ON SHEET C–1.
9. ALL PIPES ENTERING PROPOSED OR EXISTING STRUCTURES SHALL BE FLUSH WITH THE INSIDE FACE OF THE WALL AND FINISHED IN A NEAT AND WORKMANLIKE MANNER.
10. PIPE PLUGS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
11. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF OVERHEAD AND UNDERGROUND WIRES AND POLES IN THE AREA. THE METHOD OF INSTALLATION OF STRUCTURES AND PIPES IN THESE LOCATIONS MUST COMPLY WITH ALL OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL INSPECT THESE SITES AND BE RESPONSIBLE FOR DETERMINING WHAT METHOD OF PREPARATION AND INSTALLATION WILL BE USED TO COMPLY WITH THESE REQUIREMENTS. THE METHOD OF PREPARATION AND INSTALLATION MUST HAVE THE ENGINEER'S AND UTILITY OWNERS APPROVAL. ALL COST TO COMPLY WITH THE REQUIREMENTS AND THE UTILITY POLE OWNERS REQUIREMENTS, INCLUDING BRACING OF POLE WHERE NECESSARY, SHALL BE INCLUDED IN OTHER PARTS OF THE WORK AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
12. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
13. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT.
14. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED TO A CONDITION AT LEAST EQUAL TO THAT PRIOR TO START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
15. CONTRACTOR SHALL CONTACT SUNSHINE AT 1 (800) 432–4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
16. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT MAY BE REQUIRED FOR TREE REMOVAL. CONTRACTOR SHALL NOTIFY D.E.R.M. PRIOR TO REMOVING ANY TREES.
17. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
18. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATION.
19. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN TRAFFIC.
20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ONSITE FACILITIES AT ALL TIMES.
21. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
22. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
23. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H–20 AASHTO H20: 16,000 LBS OVER 8" X 20" AREA.
24. CONCRETE STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.

PAVING, GRADING AND DRAINAGE NOTES

1. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF MIAMI–DADE COUNTY D.E.R.M. AND MIAMI–DADE COUNTY PUBLIC WORKS DEPARTMENT.
2. CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL. CONTRACTOR SHALL ALSO PROVIDE "AS–BUILT" GRADES CERTIFIED BY A REGISTERED LAND SURVEYOR.
3. ALL AREAS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE TOWARDS EXISTING AND/OR PROPOSED CATCH BASINS. CONTRACTOR SHALL SOD ALL AREAS DISTURBED BY THE WORK UPON COMPLETION OF FINISH GRADING.

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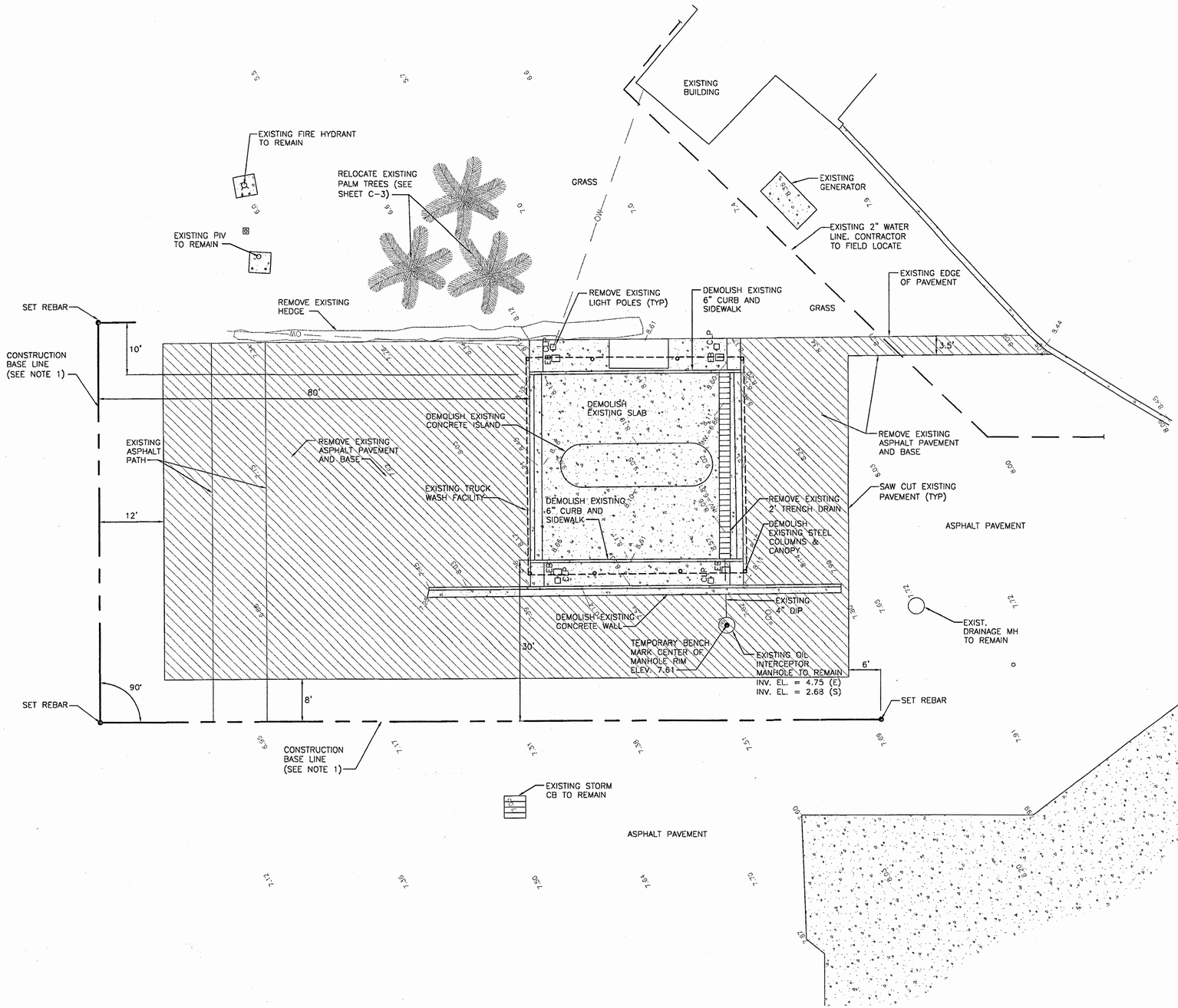
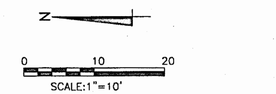
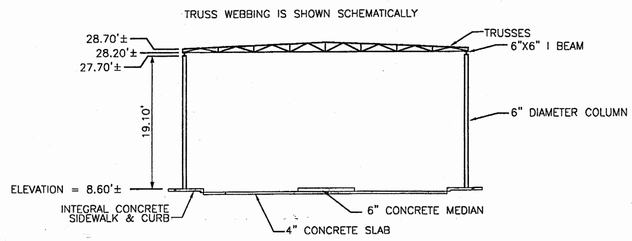
DATE:	SCALE:	CADD FILE:
02–22–02	N.T.S.	C–1.DWG
DESIGN BY:	DRAWN BY:	CHECKED BY:
A.V.	E.N.	A.D.A

SHOP 3A (NORTH)
TRUCK WASH CENTER
GENERAL NOTES AND LEGEND

SHEET C–1







SECTION THROUGH EXISTING TRUCK WASH

SCALE: 1"=10'

NOTES:

1. CONTRACTOR TO ESTABLISH A CONSTRUCTION BASELINE USING A REGISTERED LAND SURVEYOR. PRIOR TO THE START OF DEMOLITION THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER SIGNED AND SEALED PLAN SHOWING THE ESTABLISHED BASELINE.
2. OWNER TO PROVIDE SPECIAL INSPECTION FOR DEMOLITION.

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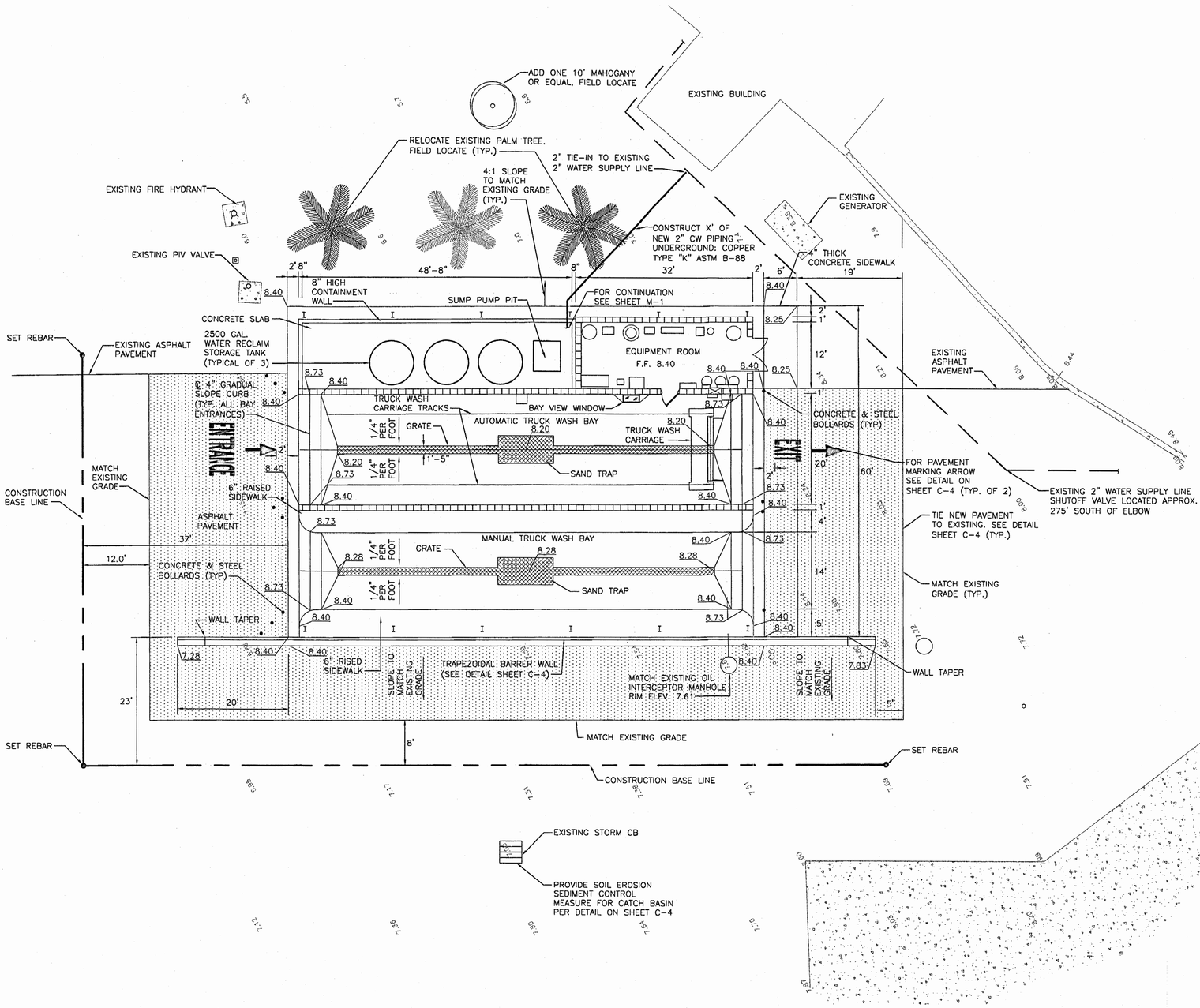
MIAMI, FLORIDA 33166

DATE:	SCALE:	CADD FILE:
02-22-02	1"=10'	C2.DWG
DESIGN BY:	**DRAWN BY:**	**CHECKED BY:**
A.V.	E.N.	A.D.A.

SHOP 3A (NORTH)
TRUCK WASH CENTER
DEMOLITION SITE PLAN

SHEET C-2



N

0 10 20

SCALE:1"=10'

NOTES:

1. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION WITHIN THE TRUCK WASH BAYS, EQUIPMENT ROOM AND RECLAIMED STORAGE TANK AREA.
2. PROVIDE SOIL EROSION SEDIMENT CONTROL MEASURE FOR ALL EXISTING CATCH BASINS WITHIN 300 FEET OF PROPOSED IMPROVEMENTS. SEE DETAIL ON SHEET C-4.

PLOT DATE: 02-22-02 CF: PROJECTS/20122.00/AUTOCAD/CIVIL/3A/C-3.DWG

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DATE:	SCALE:	CADD FILE:
02-22-02	1"=10'	C-3.DWG
DESIGN BY:	DRAWN BY:	CHECKED BY:
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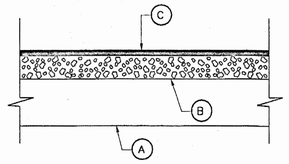
SHOP 3A (NORTH)
TRUCK WASH CENTER
SITE PLAN

SHEET C-3



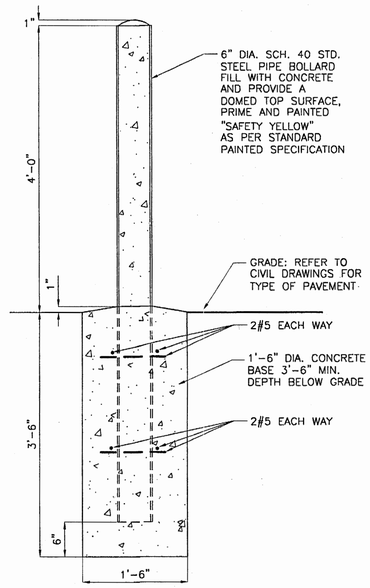
LEGEND

(A) 12" THICK STABILIZED SUB-GRADE COMPACTED TO 98% AASHTO T-180

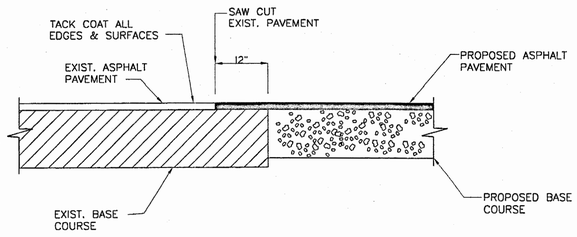
(B) 10" THICK LIMEROCK BASE COURSE COMPACTED 98% AASHTO T-180

(C) 2" TYPE S-1 ASPHALT CONCRETE PAVEMENT

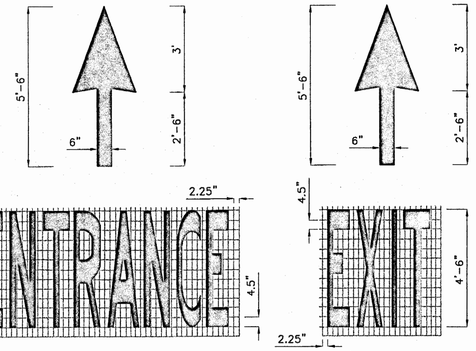
TYPICAL PAVEMENT CROSS SECTION
N.T.S.



TYPICAL BOLLARD DETAIL (STEEL)
N.T.S.



TIE IN TO EXISTING PAVEMENT
N.T.S.



TYPICAL PAVEMENT ARROW DETAILS
N.T.S.

PLOT DATE: 02-22-02 CF: PROJECTS/20122.00/AUTOCAD/CIVIL/3A/C-4.DWG

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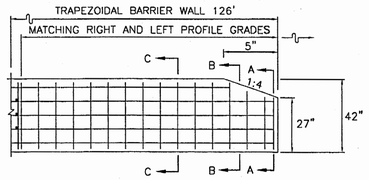
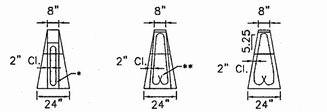
SHOP 3A (NORTH)
TRUCK WASH CENTER
CIVIL DETAILS

SHEET
C-4

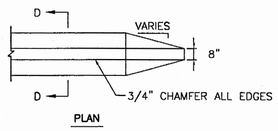


LONGITUDINAL SECTION

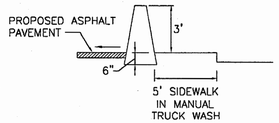


SECTION AA SECTION BB SECTION CC

*FIELD CUT AND BEND VERTICAL BARS FOR FULL CLOSURE.
**FIELD CUT AND BEND VERTICAL BARS FOR PARTIAL CLOSURE.

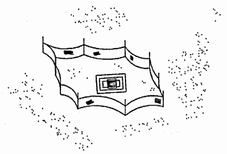


PLAN



SECTION DD

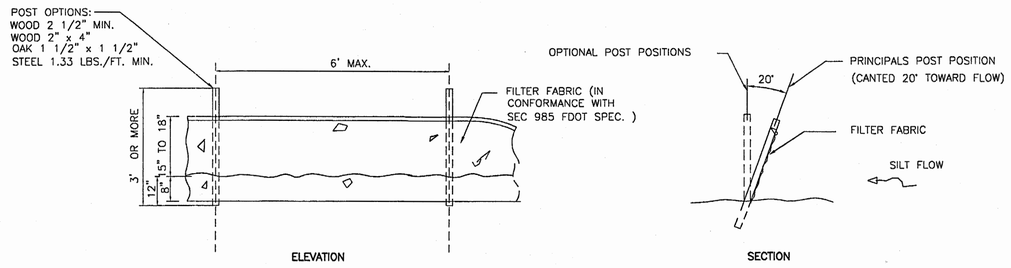
TRAPEZOIDAL BARRIER WALL DETAIL
N.T.S.



TYPE III SILT FENCE
AROUND DITCH BOTTOM INLETS.

DO NOT DEPLOY IN MANNER THAT SILT FENCES WILL ACT AS DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS AND USED OF PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS
N.T.S.



ELEVATION SECTION

TYPE III SILT FENCE
N.T.S.

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A.V.	E.N.	A.D.A.

SHOP 3A (NORTH)
TRUCK WASH CENTER
CIVIL DETAILS

SHEET C-5

GENERAL:

G1 SCOPE
THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

G2 APPLICABLE SPECIFICATIONS AND CODES
CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE, WHICH SHALL GOVERN EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE. THE SPECIFICATIONS IDENTIFY OTHER APPLICABLE CODES AND REFERENCES RELATING TO THE PROJECT.

G3 ALTERNATIVE DESIGNS
THE STRUCTURAL SYSTEMS AND DETAILS ON THESE PLANS ARE THE PRIORITY DESIGN. ALTERNATIVE SYSTEMS AND DETAILS MAY BE USED IF THE CONTRACTOR SUBMITS PLANS WITH SUBSTANTIATING CALCULATIONS AND TEST DATA THAT IS ACCEPTABLE TO THE OWNER AND THE ENGINEER OF RECORD.

G4 DIMENSIONS
STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

G5 PROVISIONS FOR EQUIPMENT
MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED PRIOR TO CASTING CONCRETE.

G6 CONSTRUCTION LOADS
STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON COMPLETED STRUCTURES. STRUCTURES SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. WHERE WALLS ARE BACKFILLED WITH SOIL ON BOTH SIDES, PLACE BACKFILL ON BOTH SIDES OF THE WALL SUCH THAT THE DIFFERENTIAL HEIGHT OF SOIL ON EITHER SIDE OF THE WALL DOES NOT EXCEED 2 FEET. WALLS OF STRUCTURES MAY BE LATERALLY SUPPORTED BY ELEVATED SLABS AND/OR STRUTS, THEREFORE COORDINATE SOIL BACKFILL WITH ENGINEER PRIOR TO PROCEEDING. DO NOT BACKFILL AGAINST ANY WALL UNTIL CONCRETE HAS ACHIEVED SPECIFIED 28 DAY STRENGTH.

G7 DESIGN LIVE LOADS
A. FLOOR AREAS:
   (1) EQUIPMENT AREA–200 PSF OR EQUIPMENT PLUS 50 PSF
   (2) SIDEWALKS (NON TRAFFIC AREA) – 100 PSF
   (3) UNLOADING AREAS – 2–1/2 TON TRUCK OR 100 PSF
   (4) TRUCK TRAFFIC AREAS – HS–20 LOADING OR 250 PSF
   (5) PLATFORMS – 100 PSF
   (6) OTHER AREAS – 100 PSF

B. GRATING, CHECKERED PLATES, AND HATCHES – SAME LOADINGS AS ADJACENT FLOOR AREAS

C. STAIRS – 100 PSF

D. ROOF – 20 PSF

E. DESIGN WIND SPEED PER ASCE 7–98 – 150 MPH (IMPORTANCE = 1.15)

F. DESIGN SEISMIC LOADS PER CODE (IMPORTANCE = 1.5)

G8 LIVE LOAD SIGNS
LIVE LOAD SIGNS SHALL BE PROVIDED AS SPECIFIED OR REQUIRED.

G9 DRAINAGE SURFACES
SLOPE DRAINAGE SURFACES UNIFORMLY TO DRAIN. SLOPE SHALL BE 1/4" PER FOOT EXCEPT WHERE NOTED OTHERWISE ON THE PLANS.

G10 GEOTECHNICAL
ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF
BASED ON ARDAMAN & ASSOCIATES, INC. REPORT DATED 02–24–99 FOR M–D DSWM
PROOF ROLL AND FILL COMPACTION TO 95 PERCENT MODIFIED PROCTOR DENSITY

CONCRETE:

C1 APPLICABLE CODE
CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI BUILDING CODE ACI 318 AND ACI 350R.

C2 REINFORCING STEEL DETAILS
ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315, LATEST EDITION.

C3 CONCRETE COVER
CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS WITH MINIMUM COVER OF ONE BAR DIAMETER:

CONCRETE PLACED DIRECTLY AGAINST SOIL:	3"
CONCRETE TO BE IN CONTACT WITH LIQUID, SOIL OR WEATHER:	2"

C4 MINIMUM REINFORCING
UNLESS OTHERWISE NOTED, THE MINIMUM REINFORCING FOR ALL CONCRETE WALLS AND SLABS ON GRADE SHALL BE AS FOLLOWS:

THICKNESS	REINFORCING EACH WAY	LOCATION
6"	#4 @ 12"	CENTERED
8"	#5 @ 12"	CENTERED
10"	#4 @ 12"	EACH FACE
12", 14" AND 16"	#5 @ 12"	EACH FACE
18" AND THICKER	#6 @ 6"	EACH FACE

C5 BAR LAP SPLICES
UNLESS INDICATED OTHERWISE, CONTRACTOR MAY LAP SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCING LAP SPLICES, UNLESS OTHERWISE SHOWN, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENT:

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR *	1'–6"	2'–0"	2'–6"	3'–4"	4'–6"	5'–11"	7'–6"	9'–6"	11'–8"
OTHER	1'–4"	1'–7"	1'–11"	2'–7"	3'–6"	4'–7"	5'–9"	7'–4"	9'–0"

* TOP BAR SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE CONCRETE PLACEMENT. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

C6 HORIZONTAL REINFORCING BARS
ALL WALL HORIZONTAL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH INTERSECTING WALLS, COLUMNS OR PILASTERS. HORIZONTAL REINFORCEMENT IN WALLS THAT INTERSECT A CONTINUOUS CROSS WALL SHALL BE EXTENDED INTO CONNECTING WALLS AND TERMINATED ON THE OPPOSITE FACE OF THE CONNECTING WALL WITH A STANDARD 90 DEGREE HOOK AS DEFINED IN THE LATEST EDITION OF ACI 318.

C7 EXTRA ACCESSORY BARS
IN ADDITION TO NORMAL ACCESSORIES USED TO HOLD REINFORCING STEEL FIRMLY IN POSITION, EXTRA ACCESSORY BARS SHALL BE USED AS FOLLOWS:
A. IN SLABS #5 RAISER BARS AT 36" OC MAXIMUM TO SUPPORT TOP REINFORCING STEEL.
B. IN WALLS WITH TWO CURTAINS #3 U OR Z SHAPE SPACERS AT 6'–0" OC EW

C8 RESTRICTED BAR ANCHORAGE
IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS FAR AS REQUIRED DUE TO THE LIMITED EXTENT OF THE ADJACENT CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS.

C9 STANDARD HOOKS
BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF PAR. 7.1, PAR 7.1.ACI–318

C10 SLOPING SLABS
SLABS WITH TOP SURFACES THAT ARE SLOPED SHALL HAVE A SLAB BOTTOM SURFACE THAT IS KEPT LEVEL, THEREBY PROVIDING A VARIABLE SLAB THICKNESS AS INDICATED

C11 GROUND SUPPORTED SLABS
CONCRETE SLABS SUPPORTED BY GROUND, UNLESS OTHERWISE NOTED, SHALL BE 4" THICK REINFORCED WITH #3 @ 12 EW CENTERED AT THE MID–DEPTH OF SLAB. PROVIDE 1/2" PREMOULDED JOINT FILLER AT WALLS AND COLUMNS TO PROVIDE SEPARATION BETWEEN THE SLAB AND WALLS AND COLUMNS.

C12 CHAMFERS
EXCEPT AS OTHERWISE REQUIRED, EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS. RE–ENTRANT CORNERS SHALL NOT HAVE FILLETS.

C13 ANCHOR BOLTS
USE OF ANCHOR BOLTS SHALL BE GOVERNED BY THE FOLLOWING TABLE:

BOLT DIAMETER	1/2"	5/8"	3/4"	7/8"	1"	1–1/8"	1–1/4"
MIN EMBEDMENT IN CONCRETE	6"	7 1/2"	9"	10 1/2"	12"	13 1/2"	15"

C14 INSERTS
PROVIDE UNISTRUT TYPE INSERTS ON 5'–0" OC ON ALL CONCRETE WALLS AND CONCRETE CEILINGS IN GALLERIES, PIPE CHASES, TUNNELS AND AREAS SHOWN ON THE DRAWINGS, AND AS REQUIRED BY MECHANICAL AND ELECTRICAL INSTALLATIONS PRIOR TO CASTING CONCRETE. INSERTS IN WALL AND CEILING SHALL BE IN THE SAME PLANE AND SHALL BE INSTALLED BETWEEN THE MAIN REINFORCING BARS.

STEEL:

ST1 APPLICABLE CODE
STEEL CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS AND STANDARDS PRESENTED IN THE LATEST EDITION OF AISC STEEL CONSTRUCTION MANUAL.

ST2 MATERIAL
UNLESS OTHERWISE INDICATED, STRUCTURAL STEEL SHALL BE ASTM A36.

ALUMINUM:

A1 APPLICABLE CODES
ALUMINUM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM CONSTRUCTION MANUAL OF THE ALUMINUM ASSOCIATION.

A2 MATERIAL
UNLESS OTHERWISE INDICATED, STRUCTURAL ALUMINUM SHALL BE ALLOY 6061–T6 AS SPECIFIED IN ASTM B–308.

A3 ALUMINUM IN CONTACT WITH CONCRETE
WHERE ALUMINUM IS IN CONTACT WITH CONCRETE OR MASONRY SURFACES, CONTACT SURFACE SHALL BE COATED WITH HEAVY ALKALI–RESISTANT BITUMINOUS PAINT.

MASONRY:

MA1 SPECIFICATIONS
SEE SPECIFICATION SECTION 04200 FOR MASONRY REQUIREMENTS.
BLOCK – GRADE N, TYPE II, ASTM C90, 1,000 PSI (GROSS AREA)
MORTAR – TYPE M, ASTM C270, 2,500 PSI
GROUT – COARSE GROUT, ASTM C476, 2,500 PSI
MASONRY COMPRESSIVE STRENGTH – f'm=1,500 PSI

SPECIAL INSPECTION:

SP1 SOIL COMPACTION
OWNER TO PROVIDE SPECIAL INSPECTION FOR SOIL COMPACTION PER FBC 1820.3.1.

SP2 REINFORCED MASONRY
OWNER TO PROVIDE SPECIAL INSPECTION FOR REINFORCED MASONRY PER FBC 2122.4.

SP3 STEEL CONSTRUCTION
OWNER TO PROVIDE SPECIAL INSPECTION FOR STEEL CONSTRUCTION PER FBC 2218.2.

MODIFICATION OF EXISTING CONCRETE:

M1 SCOPE
THE FOLLOWING NOTES ON MODIFICATION OF EXISTING CONCRETE ARE GENERAL AND APPLY TO THE ENTIRE PROJECT, OR AS INDICATED IN THE STRUCTURAL DRAWINGS.

M2 EXISTING STRUCTURAL DIMENSIONS
STRUCTURAL DIMENSIONS RELATED TO OR CONTROLLED BY EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO CONCRETE WORK.

M3 PLUG EXISTING OPENINGS
WHERE PLUG EXISTING OPENING IS INDICATED, CONTRACTOR SHALL REMOVE ANY ATTACHED METALWORK AND CONCRETE CURBS OR PROJECTIONS, ROUGHEN AND KEY EXISTING CONCRETE, COAT WITH EPOXY BONDING COMPOUND, AND POUR NEW CONCRETE FLUSH WITH ADJACENT SURFACES.

M4 NEW CLEAR OPENINGS
NEW CLEAR OPENINGS IN EXISTING CONCRETE SHALL BE CUT 2 INCHES OVERSIZE, OR AS INDICATED IN THE STRUCTURAL DRAWINGS; THEN COATED WITH EPOXY BONDING COMPOUND AND MORTAR FINISHED TO THE REQUIRED FINISHED SIZE.

M5 SAW CUT EXISTING CONCRETE
SURFACES EXPOSED TO VIEW SHALL BE NEATLY SAW CUT TO A DEPTH OF 1 INCH PRIOR TO REMOVING THE EXISTING CONCRETE.

M6 JOINT PREPARATION
EXISTING CONCRETE SURFACES TO BE JOINED WITH NEW CONCRETE SHALL BE THOROUGHLY CLEANED BY SANDBLASTING AND COATED WITH EPOXY BONDING COMPOUND JUST PRIOR TO PLACEMENT OF NEW CONCRETE.

M7 TIE INTO EXISTING STRUCTURE
WHERE "TIE TO EXISTING STRUCTURE" IS INDICATED, CONTRACTOR SHALL REMOVE EXISTING CONCRETE AS INDICATED ON THE DRAWINGS WHILE PROTECTING ALL EXISTING REINFORCEMENT. CONTRACTOR SHALL THEN STRAIGHTEN AND SANDBLAST EXISTING REINFORCEMENT AND SPLICE WITH NEW REINFORCEMENT AS DETAILED ON THE DRAWINGS OR AS DIRECTED BY THE CONSTRUCTION MANAGER.

M8 DOWEL INTO EXISTING STRUCTURE
WHERE "DOWEL INTO EXISTING STRUCTURE" IS INDICATED, CONTRACTOR SHALL REMOVE EXISTING CONCRETE AS INDICATED ON THE DRAWINGS OR PREPARE EXISTING SURFACE AS NOTED IN "JOINT PREPARATION". DOWELS SHALL BE GROUTED BY COATING THE DRILLED HOLES AND DOWELS WITH EPOXY BONDING COMPOUND (15–30 MILS) AND INSERTING THE DOWELS INTO THE HOLES. EPOXY GROUT SHALL BE FORCED INTO HOLES TO FILL THE VOIDS. WHEN THE HOLES ARE IN HORIZONTAL DIRECTION, THE HOLES SHALL BE DRILLED SLIGHTLY DOWNWARD (APPROXIMATELY 15°). WHEN OVERHEAD HOLES ARE REQUIRED, CAPSULE ANCHOR EPOXY MUST BE USED.

STRUCTURAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
CONC	CONCRETE	MIN	MINIMUM
DWG	DRAWING	OC	ON CENTER
EF	EACH FACE	REINF	REINFORCING
EL	ELEVATION	RO	ROUGH OPENING
EW	EACH WAY	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SS	STAINLESS STEEL
FBC	FLORIDA BUILDING CODE	TOC	TOP OF CONCRETE
FF	FINISH FLOOR	TOG	TOP OF GRATING
FTG	FOOTING	TOW	TOP OF WALL
JT	JOINT	T&B	TOP AND BOTTOM
MAX	MAXIMUM	WWF	WELDED WIRE FABRIC

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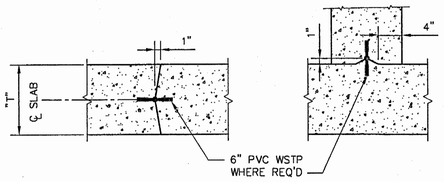
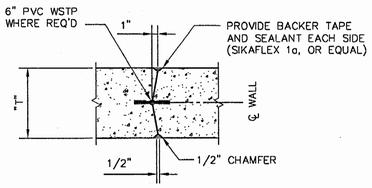
SHOP 3A (NORTH)
TRUCK WASH CENTER
STRUCTURAL NOTES

SHEET
S–1



SLAB WITH WSTP BASE WITH WSTP

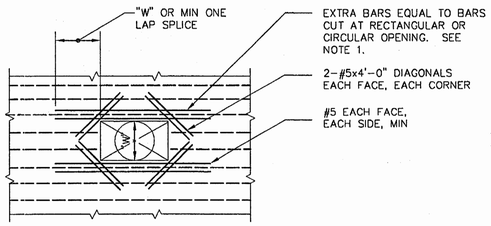


VERTICAL WALL WITH WSTP

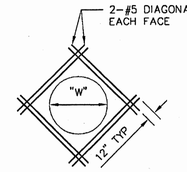
JOINT DETAILS

DETAIL A S-2

SCALE: 1" = 1'-0"



REINFORCING STEEL AT SLAB AND WALL OPENINGS



DIAGONAL REINFORCING STEEL AT CIRCULAR OPENINGS

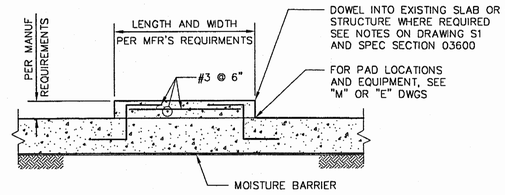
ADDED REINFORCING STEEL AT SLAB AND WALL OPENINGS

NOTES:

1. TRANSVERSE REINFORCING STEEL IS NOT SHOWN, BUT SHALL BE TREATED IN THE SAME MANNER AS BARS SHOWN.
2. "W"=DIMENSION OF OPENING PERPENDICULAR TO TO BARS CUT. "W"=DIAMETER FOR CIRCULAR OPENINGS
3. SEE MECH. AND ARCH. DRAWINGS FOR SLAB AND WALL OPENINGS NOT SPECIFIED ON STRUCTURAL DRAWINGS.
4. SUPPLEMENTARY REINFORCING STEEL MAY BE OMITTED ONLY WHERE THE OPENING IS FRAMED BY BEAMS OR WALLS.
5. SUPPLEMENTARY REINFORCING STEEL IS NOT REQUIRED WHEN SPECIFIED.
6. PROVIDE ADDITIONAL DOWELS IN BASE SLAB WHERE DOWELS IN WALLS ARE CUT DUE TO AN OPENING.

DETAIL B S-2

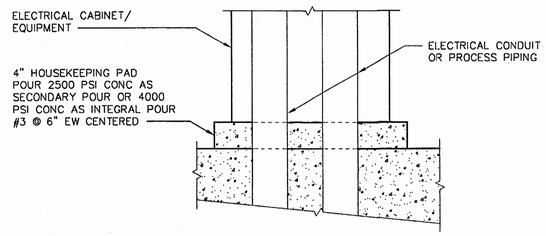
NO SCALE



EQUIPMENT PAD

DETAIL C S-2

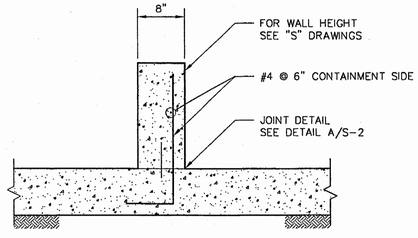
SCALE: 1" = 1'-0"



HOUSEKEEPING PAD

DETAIL D S-2

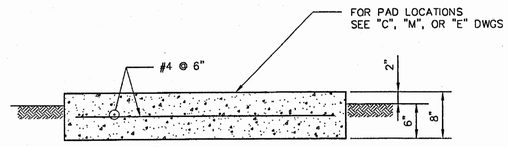
SCALE: 1" = 1'-0"



8" CONTAINMENT WALL

DETAIL E S-2

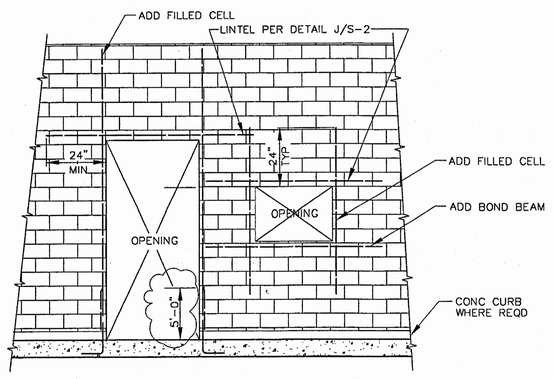
SCALE: 1" = 1'-0"



ISOLATED PAD

DETAIL F S-2

NO SCALE



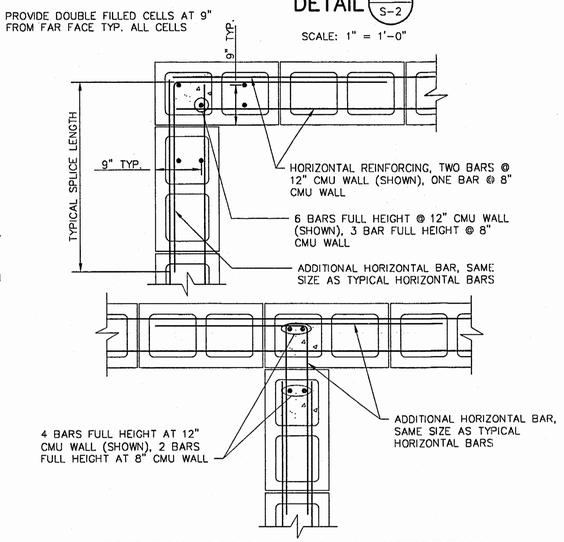
NOTES:

1. REINF BAR SIZE TO MATCH TYPICAL VERTICAL OR HORIZONTAL REINF BARS
2. ADDITIONAL LAPS SHALL BE 5'-0" FOR FILLED CELLS IF CONTINUOUS BARS ARE NOT UTILIZED

CMU WALL ELEVATION
ADD BAR REINF

DETAIL G S-2

NONE

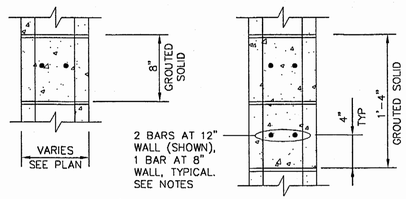


BOND BEAM REINFORCING AT WALL INTERSECTIONS

CMU WALL BOND BEAM

DETAIL H S-2

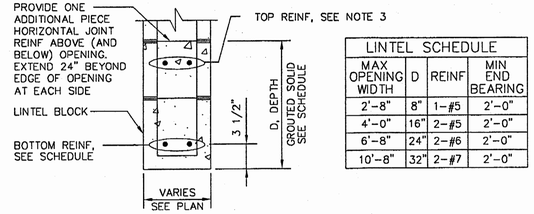
NONE



8" HIGH BOND BEAM 1'-4" HIGH BOND BEAM

NOTES:

1. REINFORCING BAR SIZE TO MATCH TYPICAL HORIZONTAL REINFORCING BARS
2. PROVIDE 8" HIGH BOND BEAM UNLESS 1'-4" BOND BEAM IS SPECIFICALLY INDICATED



LINTEL SCHEDULE			
MAX OPENING WIDTH	D	REINF	MIN END BEARING
2'-8"	8"	1-#5	2'-0"
4'-0"	16"	2-#5	2'-0"
6'-8"	24"	2-#6	2'-0"
10'-8"	32"	2-#7	2'-0"

NOTES:

1. REINFORCING CONTINUOUS TO WITHIN 2" OF LINTEL END (NOT OPENING) AT EACH END.
2. PROVIDE A LINTEL OVER ALL OPENINGS.
3. LINTEL OVER OPNGS 2'-9" OR LARGER SHALL HAVE TOP REINF IDENTICAL TO BOTTOM REINF.
4. AT 4" CMU, LINTEL TO BE L6x4x5/16 (LLV) W/MIN 8" BEARING AT EACH END. (6'-8" MAX OPENING)

CMU WALL LINTEL

DETAIL J S-2

NONE

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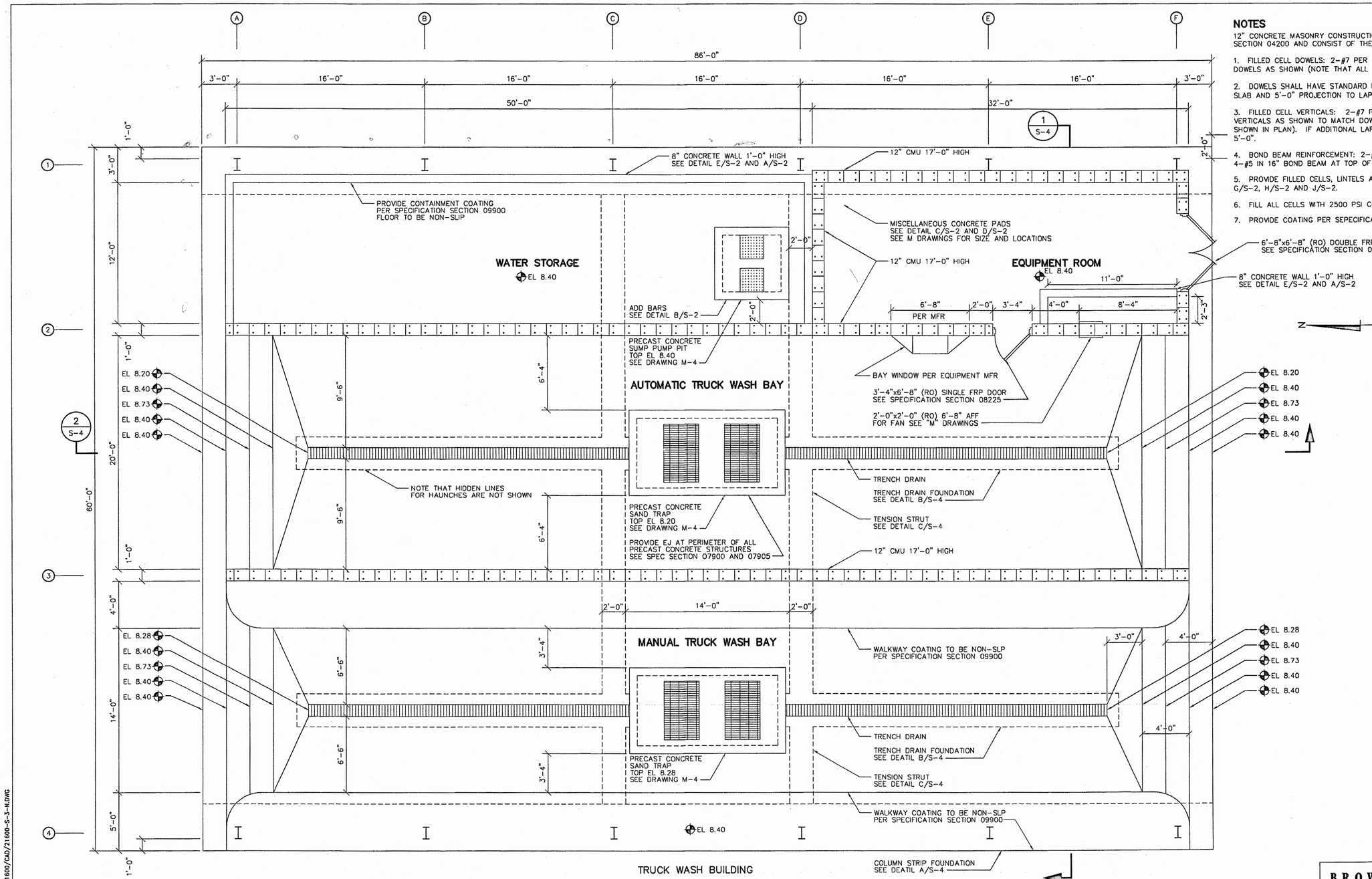
SHOP 3A (NORTH)
TRUCK WASH CENTER
STRUCTURAL DETAILS

SHEET S-2

PLOT DATE: 02/22/02 CF: 21600/CAD/21600-S-2-ALDWG



NOTES

12" CONCRETE MASONRY CONSTRUCTION SHALL COMPLY WITH SPECIFICATION SECTION 04200 AND CONSIST OF THE FOLLOWING:

1. FILLED CELL DOWELS: 2-#7 PER CELL AT 16" OC WITH ADDITIONAL DOWELS AS SHOWN (NOTE THAT ALL BARS ARE SHOWN IN PLAN)
2. DOWELS SHALL HAVE STANDARD END HOOKS, 12" EMBEDMENT IN BASE SLAB AND 5'-0" PROJECTION TO LAP 5'-0" WITH FILLED CELL VERTICALS.
3. FILLED CELL VERTICALS: 2-#7 PER CELL AT 16" OC WITH ADDITIONAL VERTICALS AS SHOWN TO MATCH DOWELS (NOTE THAT ALL BARS ARE SHOWN IN PLAN). IF ADDITIONAL LAPS ARE UTILIZED, THEY SHALL BE 5'-0".
4. BOND BEAM REINFORCEMENT: 2-#5 AT 4'-0" OC VERTICALLY WITH 4-#5 IN 16" BOND BEAM AT TOP OF ALL WALLS (SEE DETAIL H/S2)
5. PROVIDE FILLED CELLS, LINTELS AND BOND BEAMS PER DETAILS G/S-2, H/S-2 AND J/S-2.
6. FILL ALL CELLS WITH 2500 PSI CONCRETE (FDOT #89 STONE)
7. PROVIDE COATING PER SEPECIFICATION SECTION 09900

TRUCK WASH BUILDING

FOUNDATION PLAN

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

PLOT DATE: 02/22/02 CP: 21600/CAD/21600-S-3-N.DWG

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SHOP 3A (NORTH)
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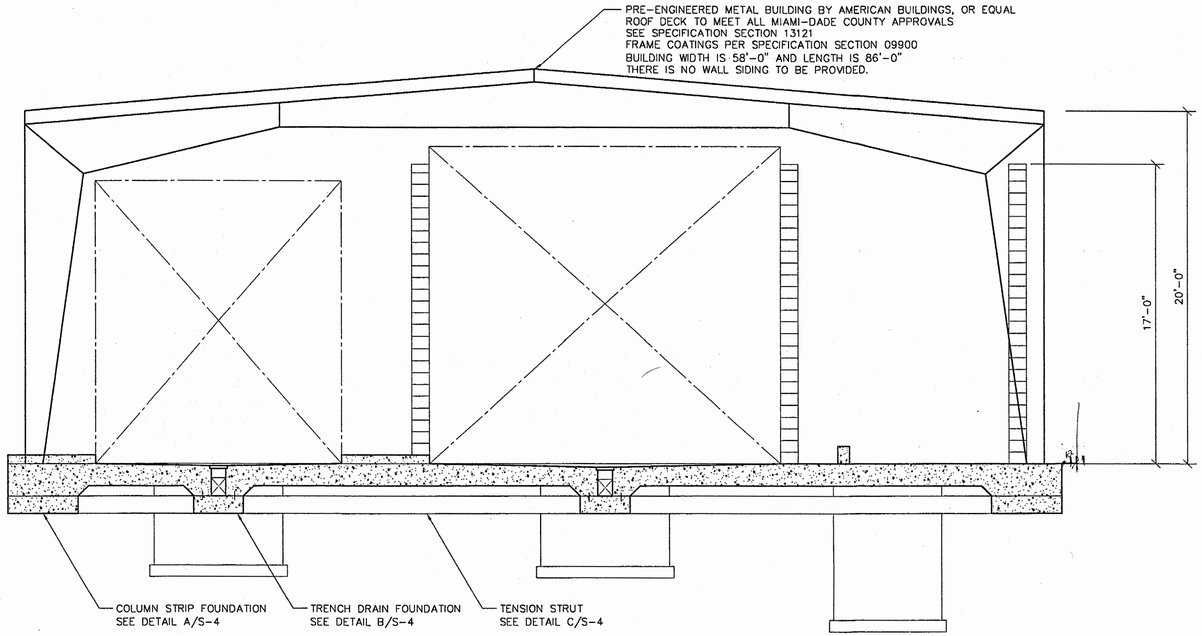
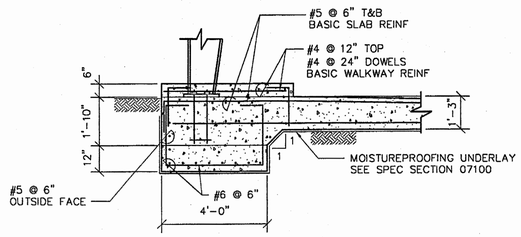
STRUCTURAL PLAN

SHEET S-3



SECTION 1 / S-3

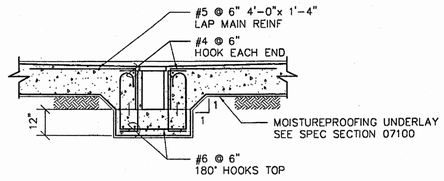
SCALE: 1/4"=1'-0"



COLUMN STRIP FOUNDATION

DETAIL A / S-4

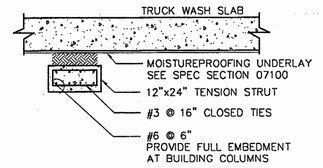
SCALE: 3/8" = 1'-0"



TRENCH DRAIN FOUNDATION

DETAIL B / S-4

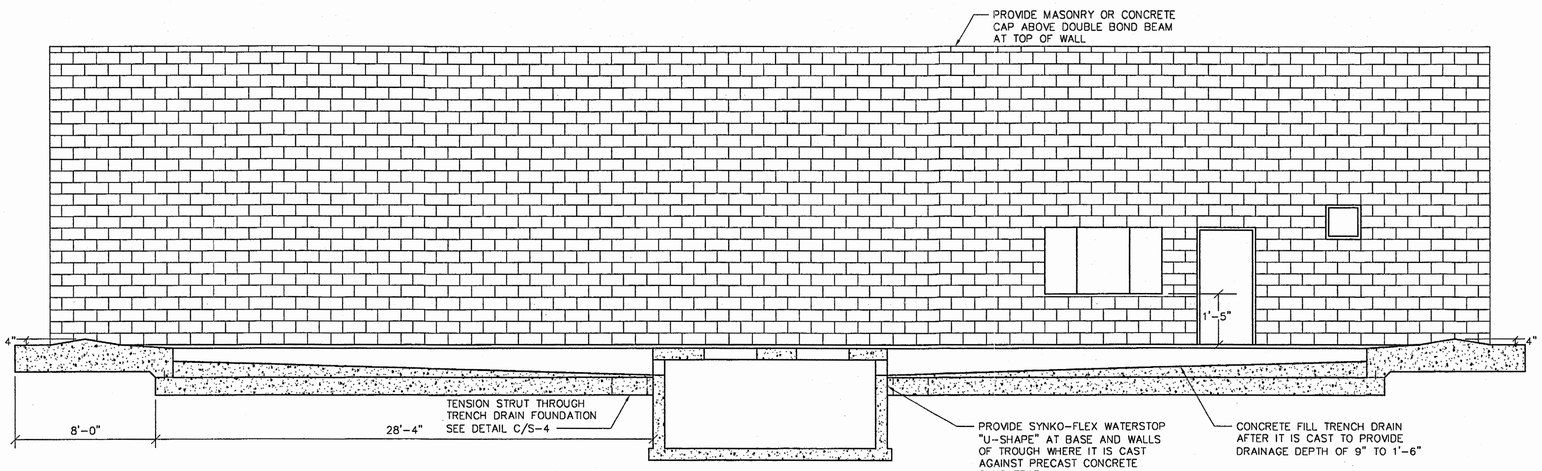
SCALE: 3/8" = 1'-0"



TENSION STRUT

DETAIL C / S-4

SCALE: 3/8" = 1'-0"



SECTION 2 / S-3

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

NOTES:

1. ANCHOR BOLT SIZE AND LOCATION PER METAL BUILDING MFR. PROVIDE A307 GALVANIZED BOLTS EMBEDDED 1'-6" W/4"x4"X1/2" PLATE WELDED TO BOLT EACH SIDE. BOLT SIZE SHALL BE 3/4" MAXIMUM. A SINGLE PLATE FOR A BOLT GROUP IS ACCEPTABLE, PROVIDED THAT 16 SQUARE INCHES OF PLATE PER BOLT IS SUPPLIED.
2. FOUNDATIONS ARE SUBJECT TO REVIEW AND REVISION BASED ON THE REACTIONS PROVIDED BY THE SELECTED METAL BUILDING MANUFACTURER DURING THE SUBMITTAL PHASE OF THE PROJECT ALL REVISIONS WILL BE ADDRESSED VIA CHANGE ORDER TO THE CONTRACT.

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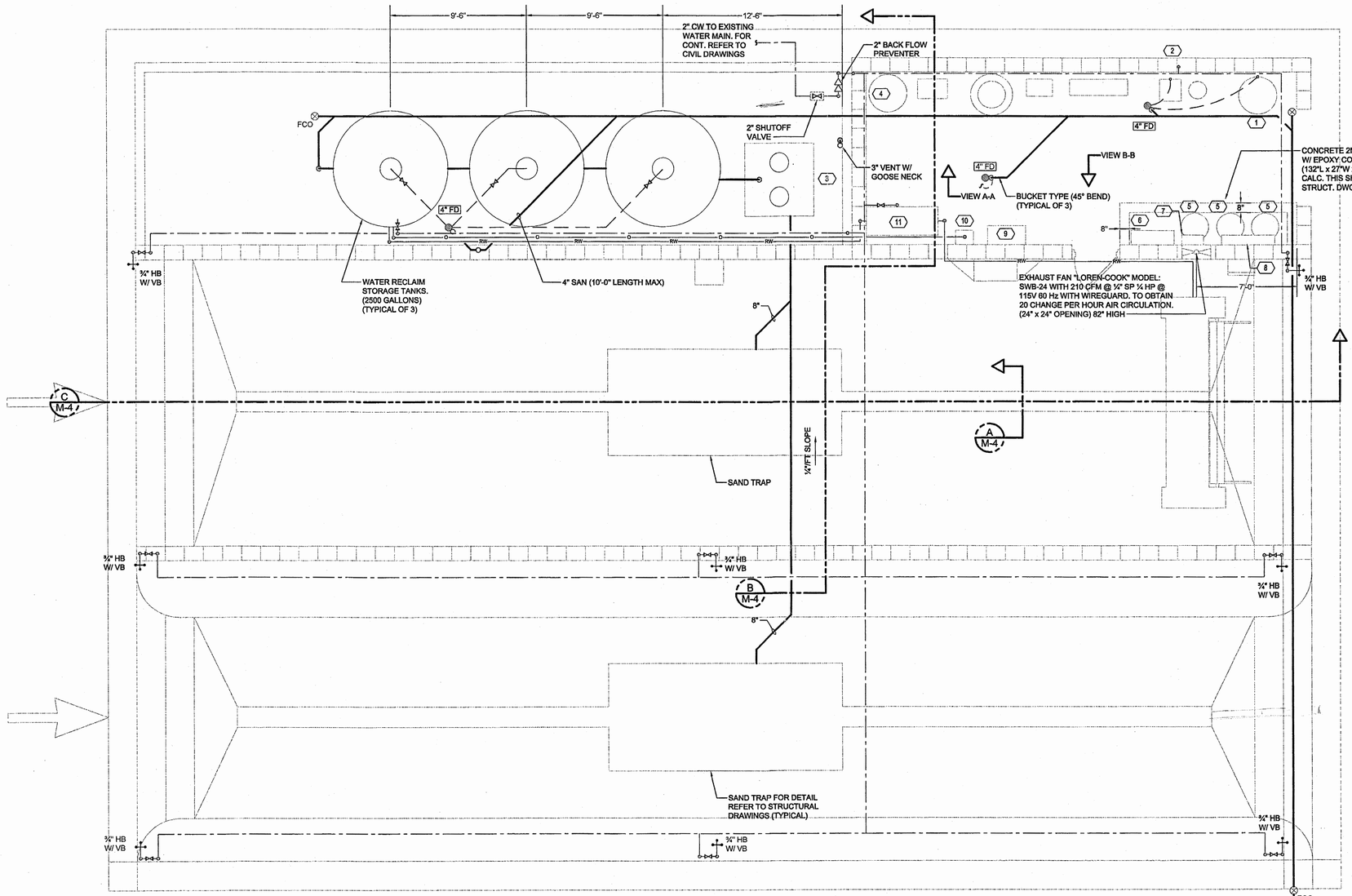
8675 NORTHWEST 53rd STREET, SUITE 201
MIAMI, FLORIDA 33166

DATE:	SCALE:	CADD FILE:
02-22-02	SHOWN	21600-S-4-N
DESIGN BY:	DRAWN BY:	CHECKED BY:
REH	REH	REH

SHOP 3A (NORTH)
TRUCK WASH CENTER
STRUCTURAL SECTIONS

SHEET S-4

PLOT DATE: 02/22/02 CP: 21600/CAD/21600-S-4-N.DWG



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

2ND CONTAINMENT CALCULATIONS:

WATER RECLAIM STORAGE TANK
STORAGE TANK CAPACITY: 2500 GALLONS (1) TANK LEAK
2ND CONTAINMENT CAPACITY REQ: 1.10 X 2500 GAL. = 2750 GAL. (367.6 FT³)
2ND CONTAINMENT CAPACITY PROVIDED:
584" L x 144" W x 12" H
48.66' x 12' x 1' = 584 FT³ OR 4367 GALLONS

CHEMICAL DRUMS
TOTAL CHEMICAL DRUM CAPACITY: (3) x 55 GAL. EACH = 165 GAL.
2ND CONTAINMENT CAPACITY REQ: 1.10 x 165 GAL. = 182 GAL. (24.33 FT³)
2ND CONTAINMENT CAPACITY PROVIDED:
132" L x 27" W x 12" H
11' x 2.25' x 1' = 24.75 FT³ OR 185 GALLONS

GENERAL NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL ORDINANCES.
2. TRUCK WASH DRAINAGE SYSTEM TO BE SLOPED AT 1/8" PER FT. MIN. FALL FOR 3" PIPE AND LARGER DEVIATIONS SHALL BE APPROVED BY ARCHITECT/ENGINEER.
3. PROVIDE CLEANOUTS EVERY 75 FT. AND AT BASE OF EVERY WASTESTACK. ALL CLOSEOUTS TO BE FLUSH MOUNTED.
4. MATERIALS SHALL BE ALL NEW AND AS FOLLOWS:
   A. DRAINAGE WASTE AND VENT PIPING INCLUDING: PVC DRAINAGE WASTE AND PIPING (DWV) CONFORMING TO ASTM D-2665, UNDERGROUND NO HUB CAST IRON CISPI STANDARD 301 ABOVE GROUND AND CAST IRON HUB, PLAIN END ASTM A-74 WITH NEO-PRENE GASKETS UNDERGROUND. INSTALL PLASTIC (PVC) PIPES ONLY WHEN ITS APPROVED BY LOCAL AUTHORITIES.
   B. WATER PIPING: COPPER TYPE "L" ASTM B-88 ABOVE GROUND AND COPPER TYPE "K" ASTM B-88 UNDERGROUND.
   C. FLOOR CLEANOUTS: JOSAM SERIES 56020 OR EQUAL.
   D. WALL CLEANOUTS: JOSAM SERIES 58750 WITH ACCESS COVER OR EQUAL.
   E. VALVES: 125 PSI NIBCO SCOTT, STOCKHAM OR EQUAL.
   F. HOSE BIBBS: CHICAGO 837 OR EQUAL WITH VACUUM BREAKER.
5. PERFORM THE FOLLOWING TEST:
   A. WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE TEST OF 100 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.
   B. DRAINAGE SYSTEM: BEFORE INSTALLATION OF ANY DRAINS, THE END OF THE SYSTEM SHALL BE CAPPED & ALL LINES FILLED WITH WATER TO HIGHEST POINT & ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVELS REMAIN CONSTANT.
   C. CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS.
   D. COMPLETE SYSTEM FIXTURE & EQUIPMENT SHALL BE GIVEN AN IN-SERVICE TEST AFTER COMPLETION OF THE INSTALLATION.
   E. STERILIZE ALL WATER LINES WITH A MIXTURE OF (2) POUNDS OF CHLORINATED LIME TO EACH 1000 gal. OF WATER (50 PPM OF AVAILABLE CHLORINE.) RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
6. PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL, AT HIS EXPENSE, REPAIR AND REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTEE PERIOD.
7. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION BEFORE COMMENCING ANY WORK.
8. PLUMBING CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION CHARGES REQUIRED.
9. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL OF ALL EQUIPMENT, MATERIALS AND LAYOUTS PRIOR INSTALLATION.
10. COORDINATE WORK WITH OTHER TRADES.
11. FURNISH AND INSTALL FIXTURES AS SPECIFIED IN SCHEDULE, THIS DRAWING.
12. PROVIDE SHUT-OFF VALVE FOR EACH EQUIP, AT CONNECTION.
13. WHEREVER DISSIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPES.
14. CONTRACTOR SHALL VERIFY CONNECTION POINTS & PIPE SIZES W/ TRUCK WASH SUPPLIER. (SHOP DRAWINGS & SPECS).

TRUCKWASH EQUIPMENT

MARKS	DESCRIPTION
1	AIR COMPRESSOR (5 HP)
2	WATER SOFTENER
3	(2) SUMP PUMPS
4	DETAIL W/ TANK (OPTIONAL)
5	CHEMICAL DRUMS (55 GALLONS)
6	MAIN CONTROL PANEL
7	MAIN ELEC. DISC. PANEL
8	CHEMICAL PUMP
9	CONTROL CONSOLE
10	OZONE GENERATOR
11	PUMP STAND

NOTE: ALL TRUCK WASH EQUIPMENT SHALL BE PROVIDED BY "RYKO" MFR.

PLOT DATE: 11-28-01 CF: PROJECTS/20128.00/AUTOCAD/CIVIL/C-3DWG

REVISIONS		
DATE	BY	DESCRIPTION

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BY:
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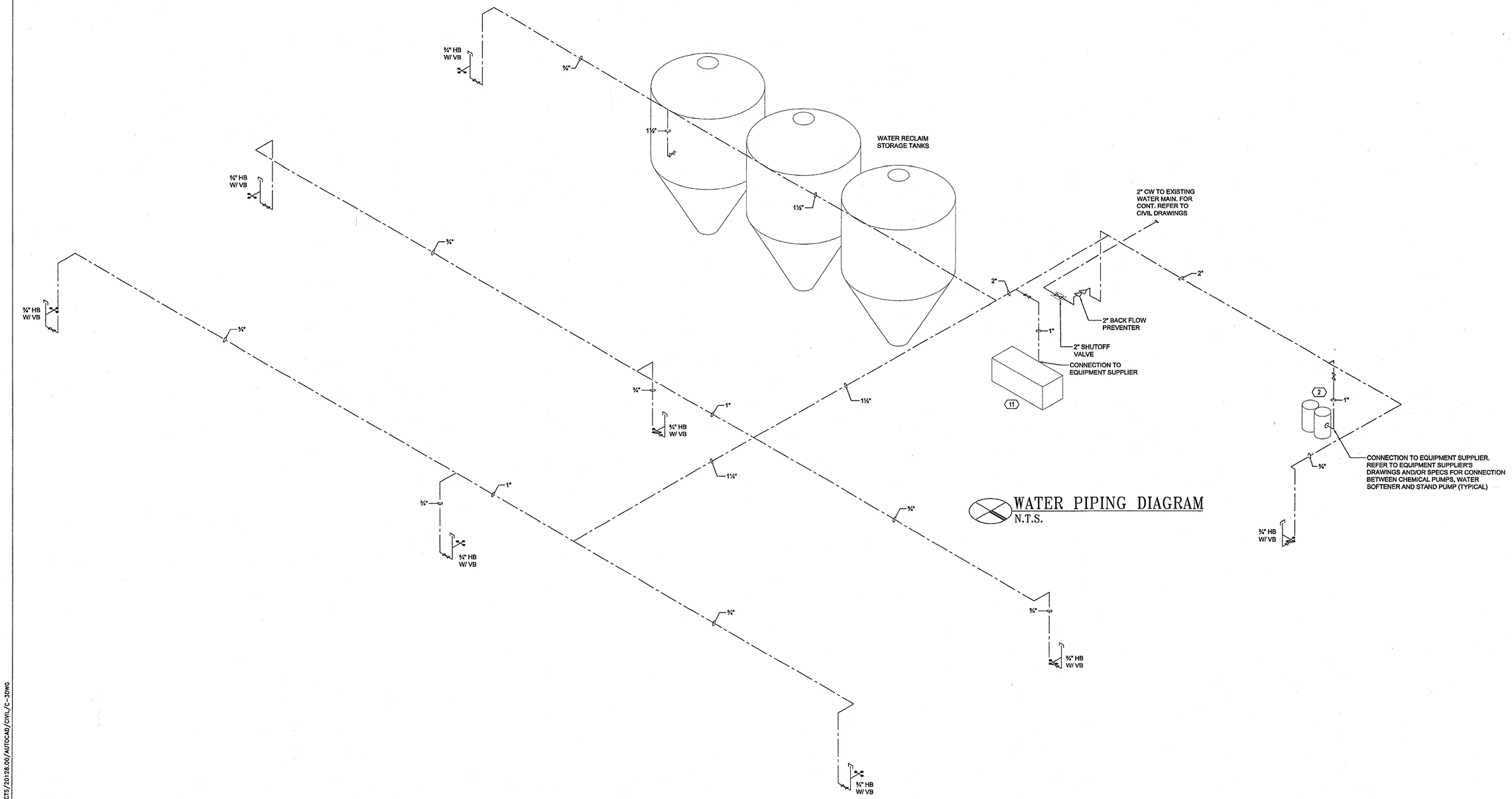
METRO DADE COUNTY, FLORIDA
DEPARTMENT OF SOLID WASTE MANAGEMENT
8675 NORTHWEST 53rd STREET, SUITE 201
MIAMI, FLORIDA 33166

DATE:	SCALE:	CADD FILE:
02-25-02	AS SHOWN	M-1.DWG
DESIGN BY:	DRAWN BY:	CHECKED BY:
L.T.	L.T.	L.T.

SHOP 3A (NORTH)
TRUCK WASH CENTER
PLUMBING FLOOR PLAN

SHEET M-1



WATER PIPING DIAGRAM
N.T.S.

PLOT DATE: 02-25-02 CP:. PROJECTS/20128.00/AUTOCAD/CIVIL/C-3DWG

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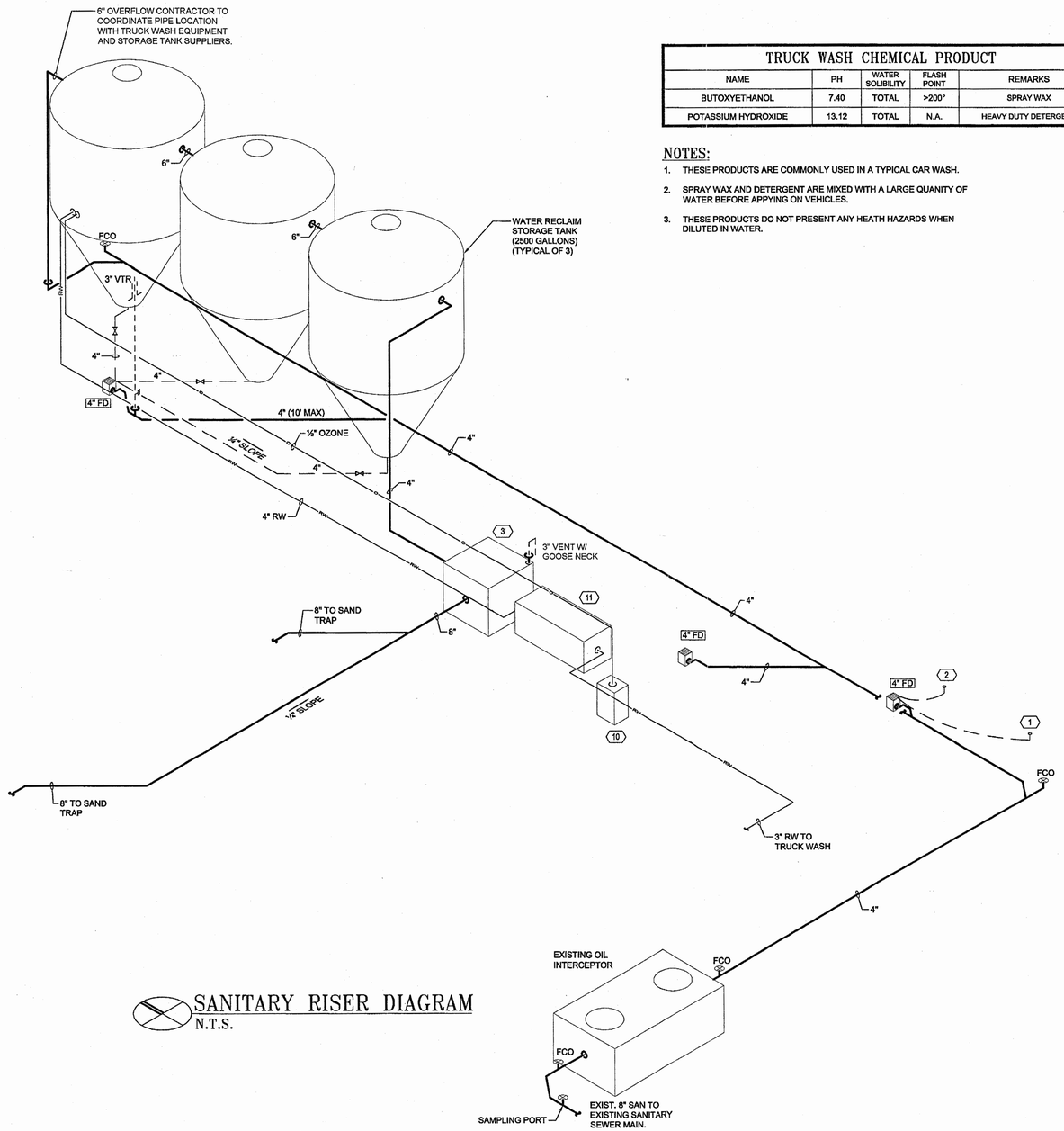
DATE:	SCALE:	CADD FILE:
02-25-02	AS SHOWN	M-2.DWG
DESIGN BY: L.T.	DRAWN BY: L.T.	CHECKED BY: L.T.

SHOP 3A (NORTH)
TRUCK WASH CENTER
WATER RISER

SHEET M-2



SANITARY RISER DIAGRAM
N.T.S.

TRUCK WASH CHEMICAL PRODUCT

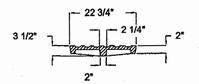
NAME	PH	WATER SOLUBILITY	FLASH POINT	REMARKS
BUTOXYETHANOL	7.40	TOTAL	>200°	SPRAY WAX
POTASSIUM HYDROXIDE	13.12	TOTAL	N.A.	HEAVY DUTY DETERGENT

NOTES:

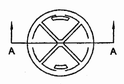
1. THESE PRODUCTS ARE COMMONLY USED IN A TYPICAL CAR WASH.
2. SPRAY WAX AND DETERGENT ARE MIXED WITH A LARGE QUANITY OF WATER BEFORE APPYING ON VEHICLES.
3. THESE PRODUCTS DO NOT PRESENT ANY HEATH HAZARDS WHEN DILUTED IN WATER.

PLUMBING LEGEND

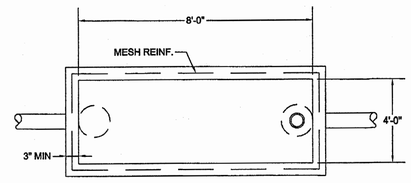
SYMBOL	DESCRIPTION
	COLD WATER LINE (CW)
RW	RETURN WATER (RW)
O	OZONE LINE (O)
SD	STORM DRAIN (SD)
	INDIRECT SAFE WASTE (IW)
	SANITARY WASTE LINE (SAN)
	SANITARY VENT LINE (V)
	AIR CHAMBER
	CHECK VALVE
FCO	FLOOR CLEAN OUT
CO	WALL CLEAN OUT
	GATE VALVE
HB	HOSE BIBB
	VALVE IN BOX
VIV	GATE VALVE IN VERTICAL
	"P" TRAP
	UNION
	FLOW DIRECTION
ABV.	ABOVE
BLW	BELOW
CEIL., CLG.	CEILING
FL.	FLOOR
F.U.	FIXTURE UNIT
F.D.	FLOOR DRAIN
(UG)	UNDERGROUND
V.T.R.	VENT THRU ROOF
VB	VACUUM BREAKER
TP	TRAP PRIMER
HD	HUB DRAIN



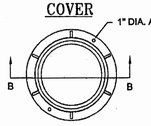
SECTION A-A

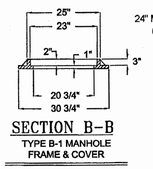


COVER



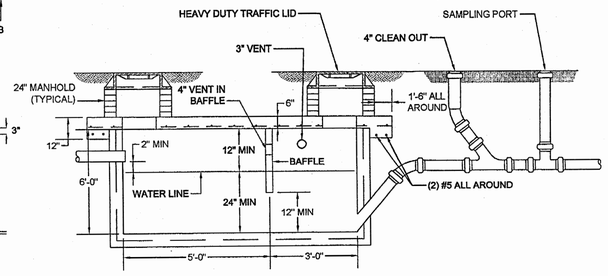
PLAN





SECTION B-B
TYPE B-1 MANHOLE FRAME & COVER

FRAME 110 lbs.
COVER 130 lbs.



ELEVATION

OIL INTERCEPTOR DETAIL
EXISTING (900 GALLONS) N.T.S.

PLOT DATE: 11-28-01 CF: PROJECTS/20128.00/AUTOCAD/CIVIL/C-3DWG

REVISIONS		
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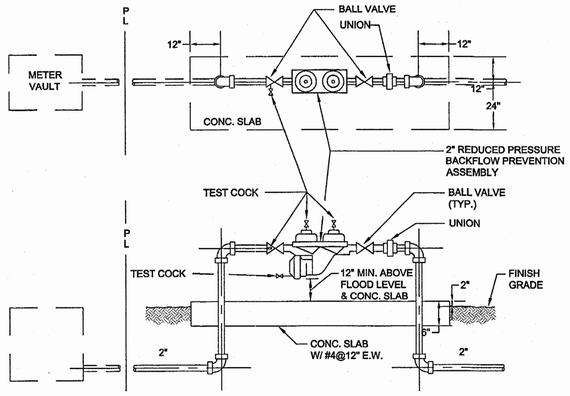
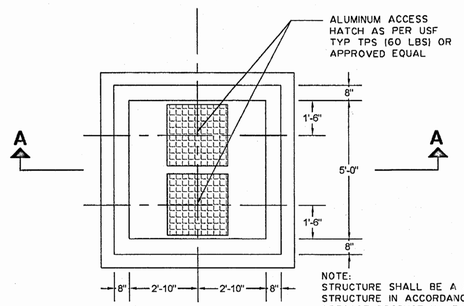
DESIGN BY: L.T.	DRAWN BY: L.T.	CHECKED BY: L.T.

SHOP 3A (NORTH)
TRUCK WASH CENTER
SANITARY RISER

SHEET M-3

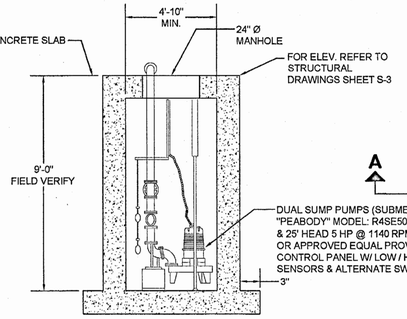


REDUCED PRESSURE BACKFLOW PREVENTOR
N.T.S.



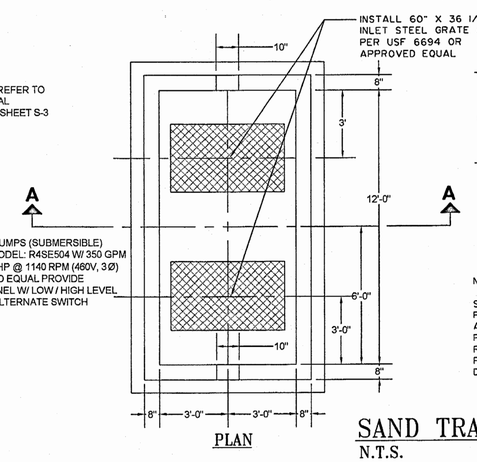
PLAN

NOTE:
STRUCTURE SHALL BE A PRE CAST TYPE STRUCTURE IN ACCORDANCE WITH U.S PRECAST PRODUCT No. 3-30.3 OR APPROVED EQUAL. REFER TO PRECAST MANUFACTURER DETAIL FOR REINFORCING STEEL AND CONCRETE DESIGN.

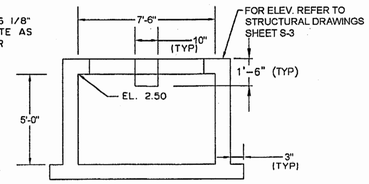


SECTION A-A

SUMP PUMP PIT DETAIL
N.T.S.



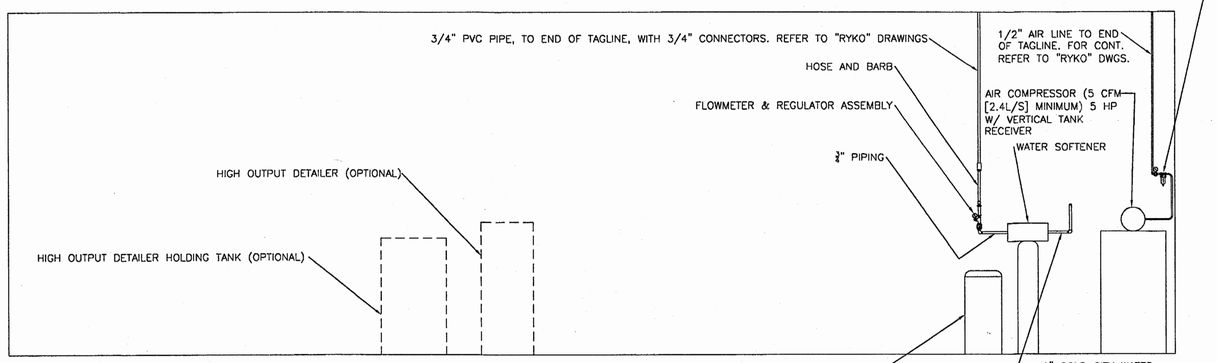
PLAN



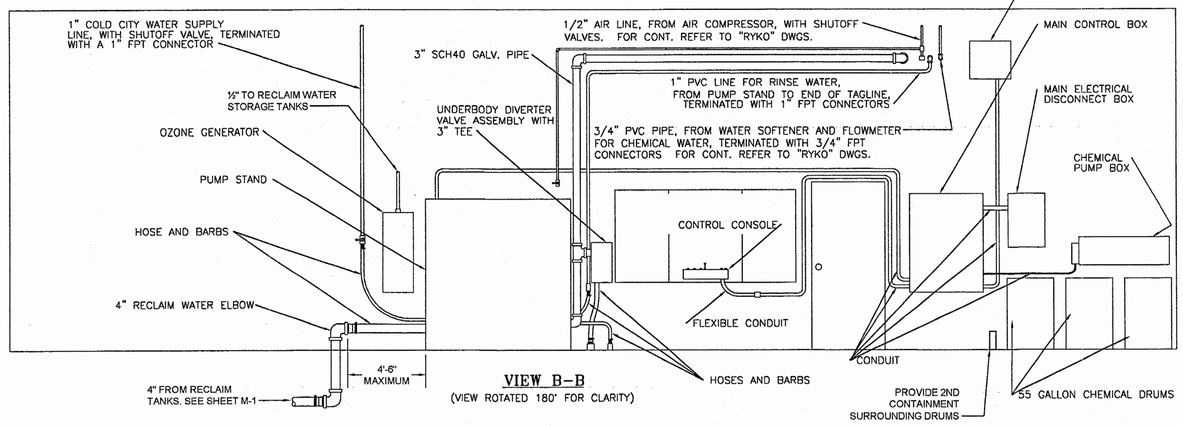
SECTION A-A

NOTE:
STRUCTURE SHALL BE A PRE CAST TYPE STRUCTURE IN ACCORDANCE WITH U.S PRECAST PRODUCT No. 3-30.14 OR APPROVED EQUAL. REFER TO PRECAST MANUFACTURER DETAIL FOR REINFORCING STEEL AND CONCRETE DESIGN.

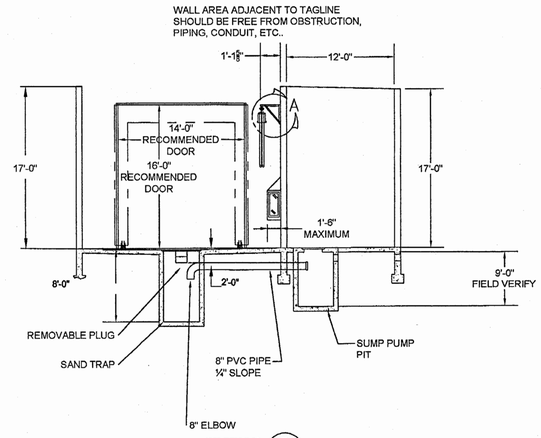
SAND TRAP DETAIL
N.T.S.



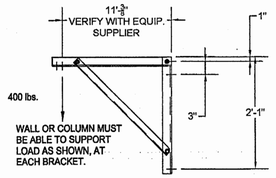
VIEW A-A



VIEW B-B
(VIEW ROTATED 180° FOR CLARITY)

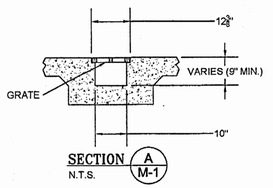


SECTION B (M-1)
N.T.S.

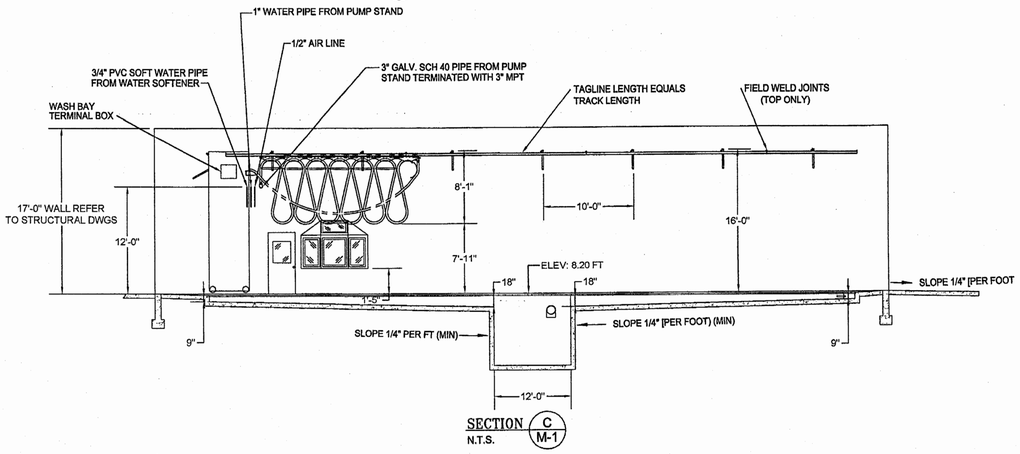


DETAIL A
(ENLARGED FOR CLARITY)

HANGERS & BOLTS SHALL BE CORRISION RESISTANT AS STAINLESS STEEL OR CARBON STEEL ASTM A 325 TYPE 3 CORTEN X



SECTION A (M-1)
N.T.S.



SECTION C (M-1)
N.T.S.

REVISIONS		
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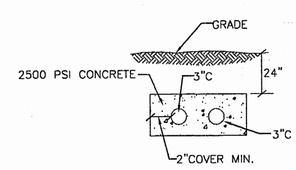
SHOP 3A (NORTH)
TRUCK WASH CENTER
DETAILS

SHEET M-4

PLOT DATE: 11-28-01 CE: PROJECTS/20128.00/AUTOCAD/CIVIL/C-3DWG



SECTION AA
N.T.S.

N.T.S.

EXISTING FPL POLE COORDIINATE WITH MR. SAOUD AT FPL PH#305-770-7919 FOR CONNECTION

EXISTING FIRE HYDRANT

EXISTING PIV

EXISTING BUILDING

GRASS

EXISTING GENERATOR

EXISTING EDGE OF PAVEMENT

GRASS

EXISTING TRUCK WASH

ASPHALT PAVEMENT

EXISTING DRAINAGE MH

CONSTRUCTION BASE LINE

EXISTING STORM CB

ASPHALT PAVEMENT

REVISIONS		
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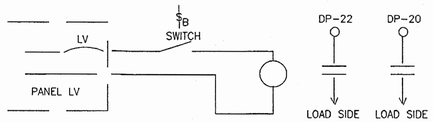
8675 NORTHWEST 53rd STREET, SUITE 201
MIAMI, FLORIDA 33166

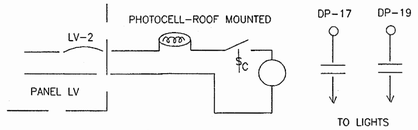
DATE:	SCALE:	CADD FILE:
02-22-02	1"=10'	E1.DWG
DESIGN BY:	**DRAWN BY:**	**CHECKED BY:**
F.G.	E.N.	A.V.

SHOP 3A (NORTH)
TRUCK WASH CENTER
ELECTRICAL SITE PLAN

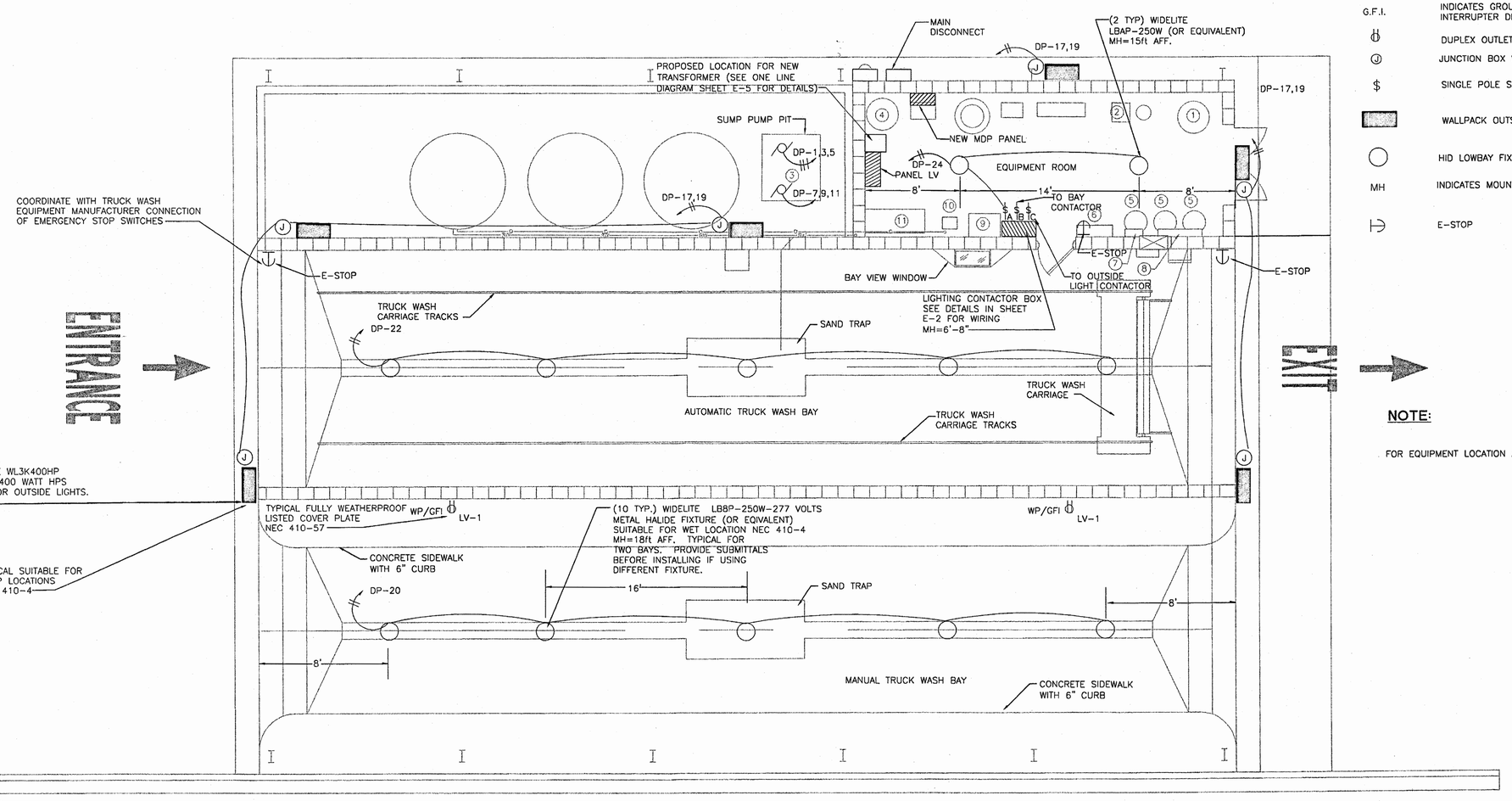
SHEET
E-1



LIGHT CONTRACTOR DETAIL FOR BAY LIGHTS



OUTSIDE LIGHT CONTACTOR DETAIL



LEGEND

- CONDUIT–CONCEALED ABOVE CEILING OR INSIDE WALL IN FINISHED AREAS, OR RUN EXPOSED
- HOME RUN TO DESIGNATED PANEL AND CIRCUIT NUMBER, TALLIES INDICATE NO. OF #12 CONDUCTORS, NO TALLIES INDICATE 2#12&1#12G–1/2" C, U.N.O.
- WALL PANEL
- G.F.I. — INDICATES GROUND FAULT CIRCUIT INTERRUPTER DEVICE
- DUPLEX OUTLET WALL MOUNTED
- J — JUNCTION BOX WALL/CEILING MOUNTED
- $ — SINGLE POLE SWITCH
- WALLPACK OUTSIDE LIGHTS
- HID LOWBAY FIXTURE
- MH — INDICATES MOUNTING HEIGHT
- E-STOP

NOTE:

FOR EQUIPMENT LOCATION AND SCHEDULE SEE SHEET M–1

REVISIONS		
DATE	BY	DESCRIPTION

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MIAMI, FLORIDA 33166

DATE:	SCALE:	CADD FILE:
02–22–02	N.T.S.	20122E–2.DWG
DESIGN BY:	DRAWN BY:	CHECKED BY:
F.G.	E.N.	F.G.

SHOP 3A (NORTH)
TRUCK WASH CENTER
ELECTRICAL FLOOR PLAN

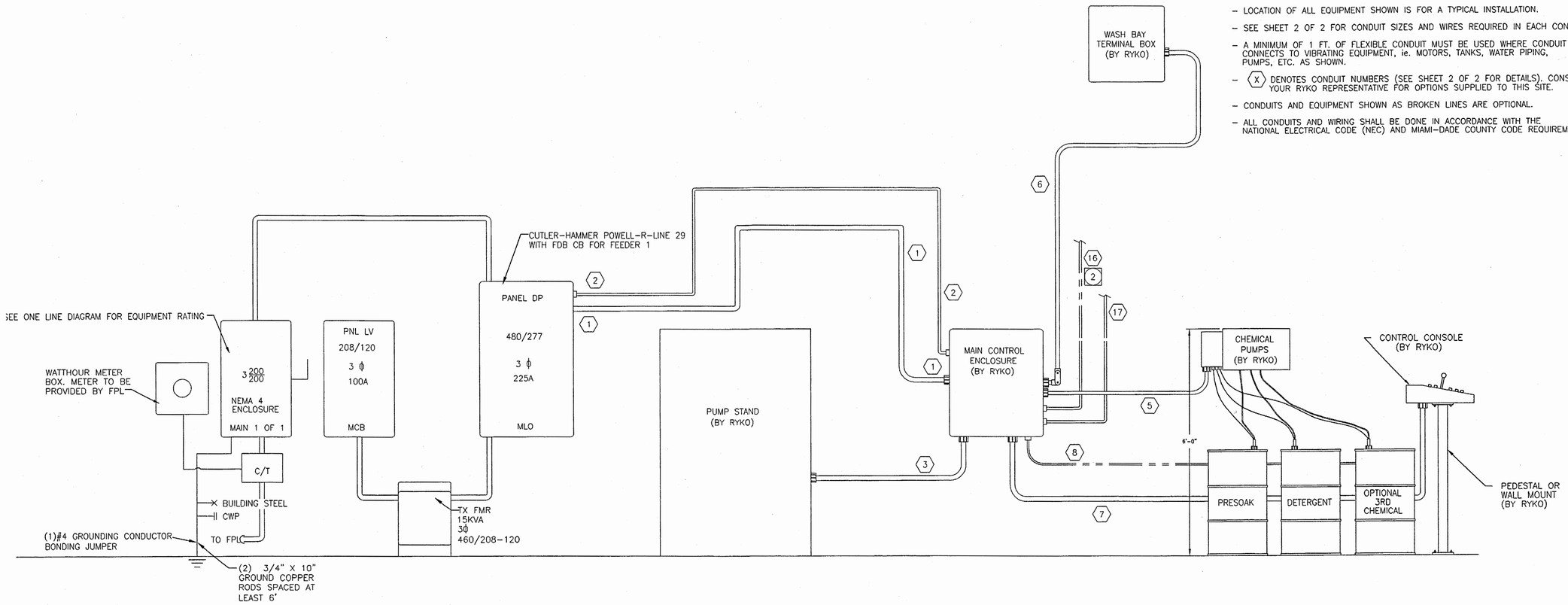
SHEET E–2

NOTES:

1. DUE TO THE NATURE OF THE CHEMICAL USED BY THIS MACHINERY, PVC CONDUIT SHOULD BE USED FOR ALL WIRING IN THE WET AREA NEAR THE ACTUAL MOVING MACHINE. IT IS SUGGESTED THAT PVC CONDUIT BE USED FOR ALL CONDUIT IN THE ENTIRE SYSTEM. ALL CONDUIT IN THE WET AREA SHOULD BE WATERTIGHT, UTILIZING CONDUIT HUBS TO ENTER AND EXIT ALL ENCLOSURES.
2. AN AUTOMATIC REVERSE SAFETY SWITCH SHOULD BE INSTALLED IN DOOR CONTROL CIRCUITRY TO PREVENT ACCIDENTAL PROPERTY DAMAGE OR PERSONAL INJURY DUE TO CONTROL MALFUNCTION.
3. IF THIS ATLANTIS IS SET UP FOR LOOP ARMING AND IF IT IS DESIRED TO RUN UNDERBODY, WIRE 127 MUST BE CONNECTED TO WIRE 19 ON THE TERMINAL BLOCK IN THE MAIN CONTROL ENCLOSURE.

GENERAL NOTES:

- ALL WIRES TO BE STRANDED.
- ALL WIRES TO BE TYPE THHN, OR THWN.
- ALL INSULATION TO BE 600 VOLTS OR GREATER.
- ALL WIRES MUST BE TAGGED WITH THE APPROPRIATE NUMBER.
- LOCATION OF ALL EQUIPMENT SHOWN IS FOR A TYPICAL INSTALLATION.
- SEE SHEET 2 OF 2 FOR CONDUIT SIZES AND WIRES REQUIRED IN EACH CONDUIT.
- A MINIMUM OF 1 FT. OF FLEXIBLE CONDUIT MUST BE USED WHERE CONDUIT CONNECTS TO VIBRATING EQUIPMENT, ie. MOTORS, TANKS, WATER PIPING, PUMPS, ETC. AS SHOWN.
- ⟨X⟩ DENOTES CONDUIT NUMBERS (SEE SHEET 2 OF 2 FOR DETAILS). CONSULT YOUR RYKO REPRESENTATIVE FOR OPTIONS SUPPLIED TO THIS SITE.
- CONDUITS AND EQUIPMENT SHOWN AS BROKEN LINES ARE OPTIONAL.
- ALL CONDUITS AND WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND MIAMI-DADE COUNTY CODE REQUIREMENTS.



NOTE: FOR FEEDER SPECIFICATION, LOAD FLOW CURRENT, AND FAULT CURRENT CALCULATION SEE ONE LINE DIAGRAM SHEET E-5, AND CONDUIT WIRING SCHEDULE SHEET E-4.

REVISIONS		
DATE	BY	DESCRIPTION

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BY: _____
FRANK GONZALEZ
ELECTRICAL ENGINEER
44930 STATE OF FL.

METRO-DADE
METRO DADE COUNTY, FLORIDA
DEPARTMENT OF SOLID WASTE MANAGEMENT
8675 NORTHWEST 53rd STREET, SUITE 201
MIAMI, FLORIDA 33166

DATE:	SCALE:	CADD FILE:
02-22-02	N.T.S	E2.DWG
DESIGN BY: F.G.	DRAWN BY: E.N.	CHECKED BY: A.V.

SHOP 3A (NORTH)
TRUCK WASH CENTER
ELECTRICAL RISER DIAGRAM

SHEET E-3

CONDUIT WIRING

*** DENOTES OPTIONAL EQUIPMENT. CONSULT YOUR RYKO REPRESENTATIVE FOR OPTIONS SUPPLIED TO THIS SITE.

(⟨X⟩ INDICATES CONDUIT NUMBER)

CONDUIT NUMBER	AWG	TOTAL CONDUCTORS REQUIRED	WIRE COLOR	WIRE TAG NUMBERS	MINIMUM CONDUIT SIZES BASED ON FILL SIZE OF 2002 NEC
⟨1⟩					
(FOR 460V,3PH,60HZ INSTALLATIONS-125AMP SERVICE)					
	1/0	3	BLACK	L1,L2,L3	1-1/4" CONDUIT
	6	1	GREEN	GROUND	(1-1/2"C RECOMMENDED)
(FOR 230V,3PH,60HZ INSTALLATIONS-250AMP SERVICE)					
	SEE FEEDER SCHEDULE FOR SIZE AND RATING				
(120V,1PH,60HZ,15AMP SERVICE)					
⟨2⟩	12	1	BLACK	L1	1/2" CONDUIT
	12	1	WHITE	NEUTRAL	
⟨3⟩					
(CONDUIT TO PUMP STAND)					
	14	6	VARIOUS	43,44,45,46,47,48	
	6	1	GREEN	GROUND	
	14	8	VARIOUS	19,25,160,174,205,262, 268,AND 1 SPARE.	
(FOR 460V INSTALLATIONS)					
	4	3	BLACK	52,53,54	1-1/2" CONDUIT
	6	3	BLACK	49,50,51	
(FOR 230V INSTALLATIONS)					
	2	6	BLACK	49,50,51,52,53,54	2" CONDUIT
(***OPTIONAL CONDUIT TO LOOP DETECTOR FOR UNDERBODY FLOODER)					
⟨4⟩	18 (MIN) 14 (MAX) (TWISTED)	2	VARIOUS	280,282	1/2" CONDUIT
(CONTROL CONDUIT TO CHEMICAL PUMP CONTROL BOX)					
	14	1	WHITE	90	3/4" CONDUIT
⟨5⟩	18 (MIN) 14 (MAX)	15	VARIOUS	69,94,95,96,99,300, 305,306,307,310,311, 344,350,2100,2101	
	18 (MIN) 14 (MAX)	1	GREEN	GROUND	
(CONTROL CONDUIT TO WASH BAY TERMINAL BOX)					
⟨6⟩	14	1	GREEN	GROUND	1-1/4" CONDUIT
	18	52	VARIOUS	29,140,141,142,143,144,145,146, 147,150,151,152,153,154,155,156, 157,161,172,206,212,213,214,215, 216,217,222,231,233,234,235,236, 237,240,242,243,251,254,265,269, 275,276,277,315,317,341,343,348, 2100,2102,AND 3 SPARES.	(1-1/2" RECOMMENDED)
	14	8	VARIOUS	19,59,88,386,387,388,389,390	
	14	1	WHITE	25	
	14	3	BLACK	L1,L2,L3	
(CONDUIT TO CONTROL CONSOLE)					
⟨7⟩	18 (MIN) 14 (MAX)	45	VARIOUS	85,89,92,104,105,106,107,110, 111,112,113,114,115,116,117, 122,123,124,125,126,132,133, 134,135,136,137,162,163,164, 165,220,221,223,224,225,227, 230,232,257,260,266,267,270, AND 2 SPARES.	1-1/4" CONDUIT (1-1/2" RECOMMENDED)
	14	1	BLACK	19	
	14	1	WHITE	25	
	14	1	GREEN	GROUND	
(***OPTIONAL CONDUIT TO OZONE GENERATOR)					
⟨13⟩	18 (MIN) 14 (MAX)	1	VARIOUS	268	1/2" CONDUIT
	18 (MIN) 14 (MAX)	1	WHITE	25	
(***OPTIONAL CONDUIT TO UNDERBODY WATER VALVE)					
⟨14⟩	18 (MIN) 14 (MAX)	1	VARIOUS	273	1/2" CONDUIT
	18 (MIN) 14 (MAX)	1	WHITE	25	
(***OPTIONAL CONDUIT TO EXIT DOOR KIT)					
⟨16⟩	18 (MIN) 14 (MAX)	6	VARIOUS	19,25,88,131,202,203	1/2" CONDUIT
	18 (MIN) 14 (MAX)	1	GREEN	GROUND	
(***OPTIONAL CONDUIT TO DOOR KIT THERMOSTATS)					
⟨17⟩	18 (MIN) 14 (MAX)	3	VARIOUS	19,176,177	1/2" CONDUIT

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MIAMI, FLORIDA 33166

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02-22-02	N.T.S	E-4.DWG
DESIGN BY:	DRAWN BY:	CHECKED BY:
F.G.	E.N.	A.V.

SHOP 3A (NORTH)
TRUCK WASH CENTER
ELECTRICAL SCHEDULES

SHEET E-4

PANEL: DP Pnl | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): MLO | BUS RATING(A): 225
LOCATION: | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 25000
FED FROM: Main | | VOLTAGE: 480/277 | | FAULT CURRENT(A) 10165

OC AMPS	P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	OC AMPS	P
15	3		Sump Pump.	NONE	5828	1	3885			2	5828	NONE	Air Comp		15	3
"			"		-	3		3885		4	-		"		"	
"			"		-	5			3885	6	-		"		"	
15	3	Spare Pump	Sump Pump	NON-COI	5903	7	4882			8	8742	NONE	DetailingPump		25	3
"			"		-	9		4882		10	-		"		"	
"			"		-	11			4882	12	-		"		"	
20	1		Chemical Pump	GENERAL	1386	13	28584			14	81594	NONE	Main Control.		150	3
20	1		Ozone Generator	GENERAL	2217	15		29415		16	-		"		"	
20	2		Wallpacks	LTS	2790	17			28523	18	-		"		"	
"			"		-	19	2835			20	1440	LTS	Bay Lights		20	1
30	3		TX-P	NONE	10161	21		5128		22	1440	LTS	Bay Lights		20	1
"			"		-	23			3677	24	576	LTS	Equipment Room		20	1
"			"		-	25	3300			26						
						27				28						
						29				30						

BUS TOTALS KVA
CONNECTED 127.59
DEMAND 121.69
DESIGN 134.83

DATE: Apr 12, 2002
TIME: 12:18:59

Fault Current Calculations assumes an infinite utitly bus with a 225 KVA 1.2% Z Transformer as per CS7.12.12-1980
Electrical Contractor is to contact Engineer of Record with any deviations from this assumptions before proceeding with the work.

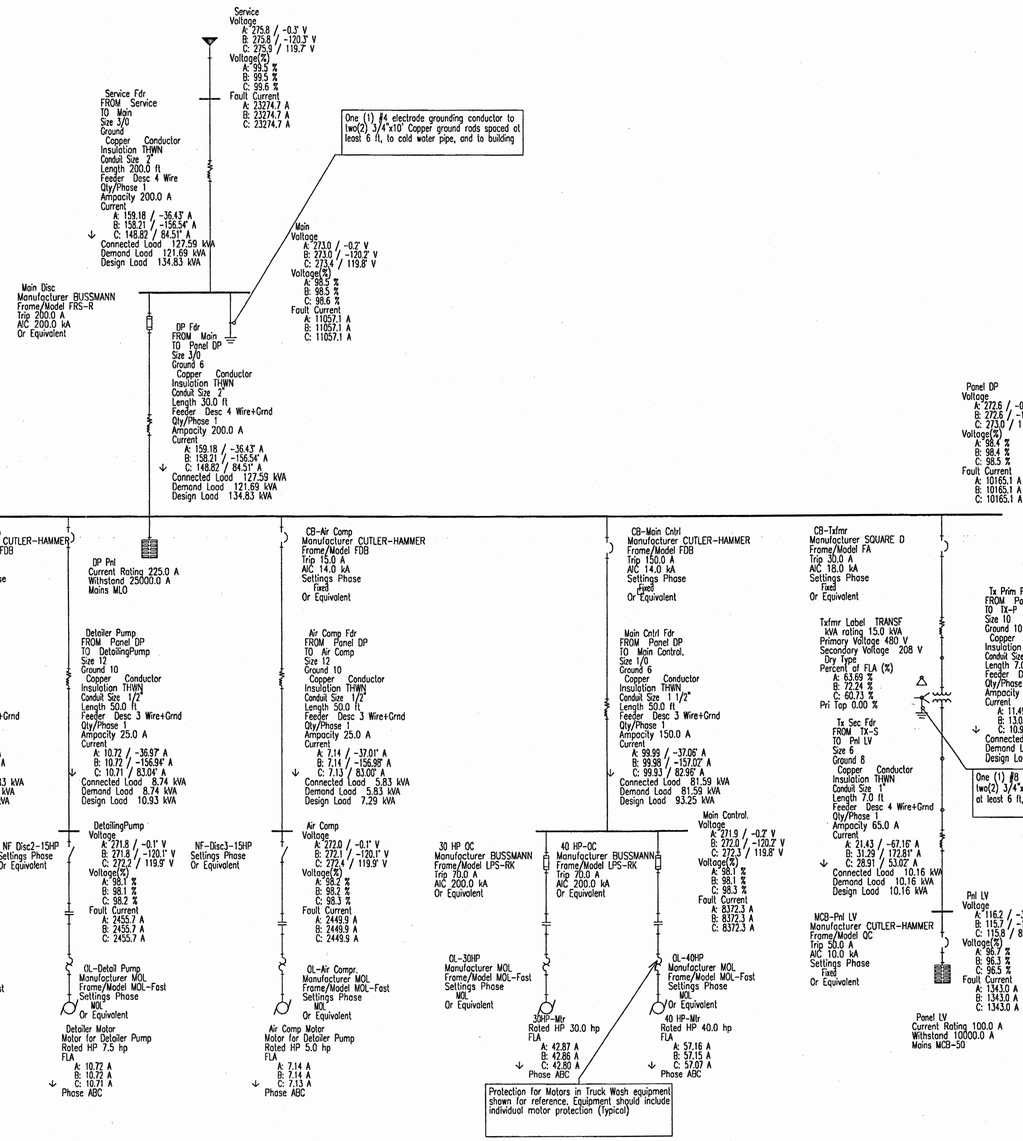
PANEL: Panel LV | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): MCB-SO | BUS RATING(A): 100
LOCATION: | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: Pnl LV | | VOLTAGE: 208/120 | | FAULT CURRENT(A) 1365

OC AMPS	P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	OC AMPS	P
20	1		Receptacle	REC	360	1	860			2	500	GEN	Light Contactor		20	1
20	1	Conduit # 2	Single Phase Service	GEN	1201	3		2101		4	900	GEN	Spare		20	1
20	1		Spare	GEN	900	5			1800	6	900	GEN	Spare		20	1
20	1		Spare	GEN	900	7	1800			8	900	GEN	Spare		20	1
20	1		Spare	GEN	900	9		1800		10	900	GEN	Spare		20	1
20	1		Spare	GEN	900	11			1800	12	900	GEN	Spare		20	1

BUS TOTALS KVA
CONNECTED 10.16
DEMAND 10.16
DESIGN 10.16

DATE: Apr 12, 2002
TIME: 12:18:59

All 15A and 20A circuits to be run in 1/2"C with #12 phase wire and #12 EGC unless otherwise specified.
All 30A circuits to be run in 1/2"C with #10 phase wires and #10 EGC, unless otherwise specified.



ONE LINE DIAGRAM WITH EQUIPMENT SPECIFICATION CURRENT FLOW, LOAD CALCULATIONS, AND FAULT CURRENT STATEMENT

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SHOP 3A (NORTH)
TRUCK WASH CENTER
ELECTRICAL ONE LINE DIAGRAM

SHEET
E-5