

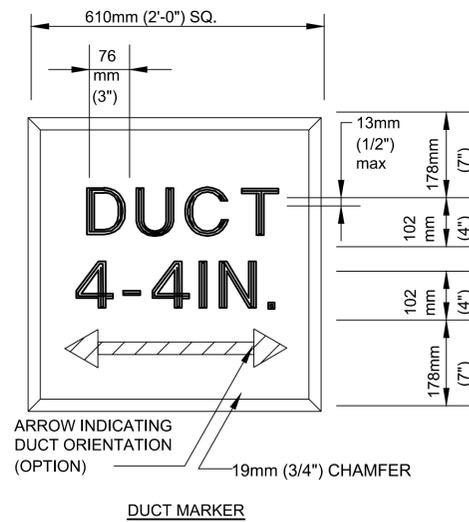
1 2" HDPE DIRECTIONAL BORING UNDER PAVEMENT DETAIL
SCALE: NTS

NOTE:
1. ATTACH 1-#4 BARE STRANDED COPPER WIRE TO THE OUTSIDE OF THE HDPE CONDUIT OR GROUP OF CONDUITS WHEN INSTALLING THE CONDUITS. CONNECT THE #4 BARE WIRE TO THE CONTINUING TRENCH COUNTERPOISE WITH EXOTHERMIC WELDS. PROVIDE AND CONNECT A 3/4" x 10' COPPER GROUND ROD AT EACH BORE PIT AND/OR BORE TERMINATION LOCATION.

- * = MINIMUM DEPTH
- 1 CONDUIT - 24"
 - 2-3 CONDUITS - 36"
 - 4-5 CONDUITS - 48"
 - 6-8 CONDUITS - 60"
 - 9-10 CONDUITS - 72"

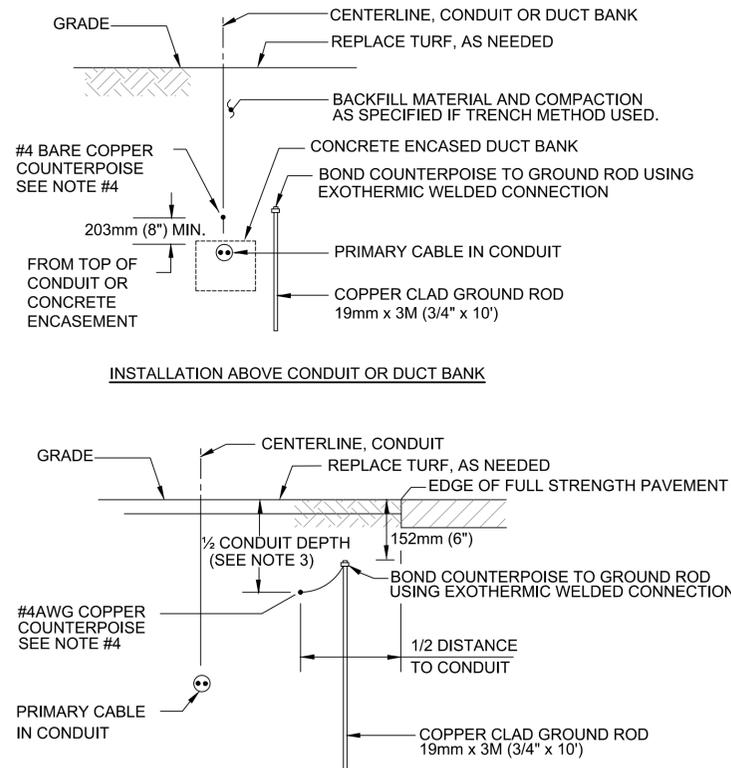
2" SOLID/SMOOTH WALL HDPE SDR 13.5 ORANGE CONDUITS. SEE NOTE 1

BORE PIT (TYP)



2 CABLE AND DUCT MARKERS
SCALE: NTS

- NOTES:
- HAND LETTERING NOT ALLOWED ON MARKERS. LETTERING IS TO BE BOLDLY IMPRESSED. LINE WIDTH AND DEPTH MUST BE 13mm (1/2") MINIMUM.
 - ARROW ON CABLE MARKER TO INDICATE DIRECTION OF CABLES (WHERE APPLICABLE).
 - THE DUCT MARKER MUST INDICATE NUMBER AND SIZE OF DUCTS PROVIDED IN DUCT BANK. (4 - 4" SHOWN FOR EXAMPLE)
 - THE MARKERS MUST BE CONCRETE WITH A MINIMUM OF 102mm (4") IN THICKNESS.
 - THE DUCT MARKERS MUST BE PLACED 3' FROM EDGE OF PAVEMENT AT PAVEMENT CROSSINGS.

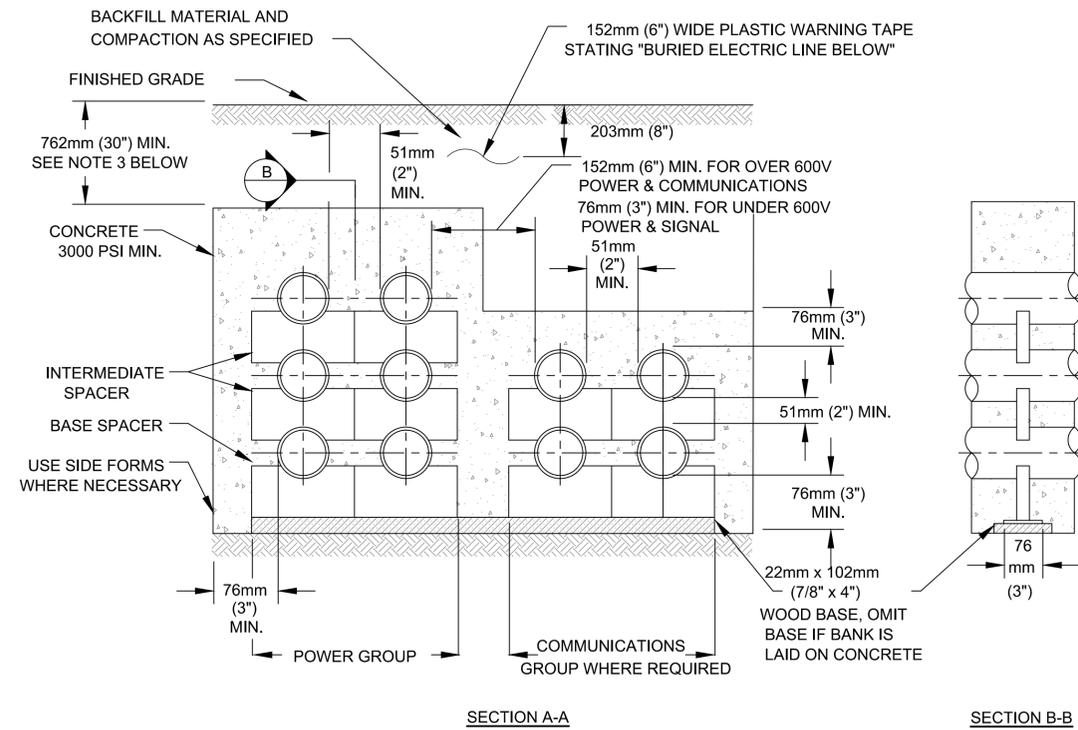
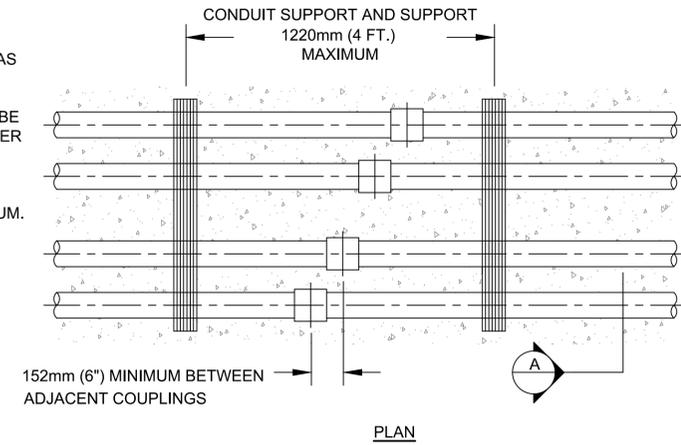


3 COUNTERPOISE & GROUND ROD INSTALLATION DETAIL
SCALE: NTS

- NOTES:
- CONNECT COUNTERPOISE TO EACH LIGHT BASE AND MANHOLES/HANDHOLE GROUNDING COMPONENTS, UNLESS OTHERWISE SPECIFIED.
 - PROVIDE GROUND RODS SPACED MAX. 300M (1000FT).
 - PLACE COUNTERPOISE ON NEXT-TO-LAST LIFT OF COMPACTED BASE MATERIAL UNDER SHOULDER.
 - WHERE SOIL IS CONSIDERED HIGHLY CORROSIVE (<10,000 OHM-CM RESISTIVITY), THE SIZE OF THE COUNTERPOISE MUST BE #1/0 AWG.
 - D.E.B. CONDUIT INSTALLATION MUST BE 24" MIN BELOW GRADE TO THE TOP OF THE CONDUIT. CONCRETE ENCASED CONDUIT INSTALLATION MUST BE 30" MIN BELOW GRADE TO THE TOP OF THE ENCASEMENT.

DUCT BANK NOTES:

- FOR SIZE AND NUMBER OF CONDUITS AS WELL AS DUCT BANK FORMATION, SEE PLANS.
- THE COMMUNICATIONS CONDUIT GROUP MUST BE SEPARATED FROM THE POWER GROUP ON EITHER LEFT OR RIGHT SIDE AS SHOWN ON PLANS.
- FLOWABLE FILL OR CONCRETE COVER ON TOP, BOTTOM AND SIDES MUST BE 76.2mm (3") MINIMUM.

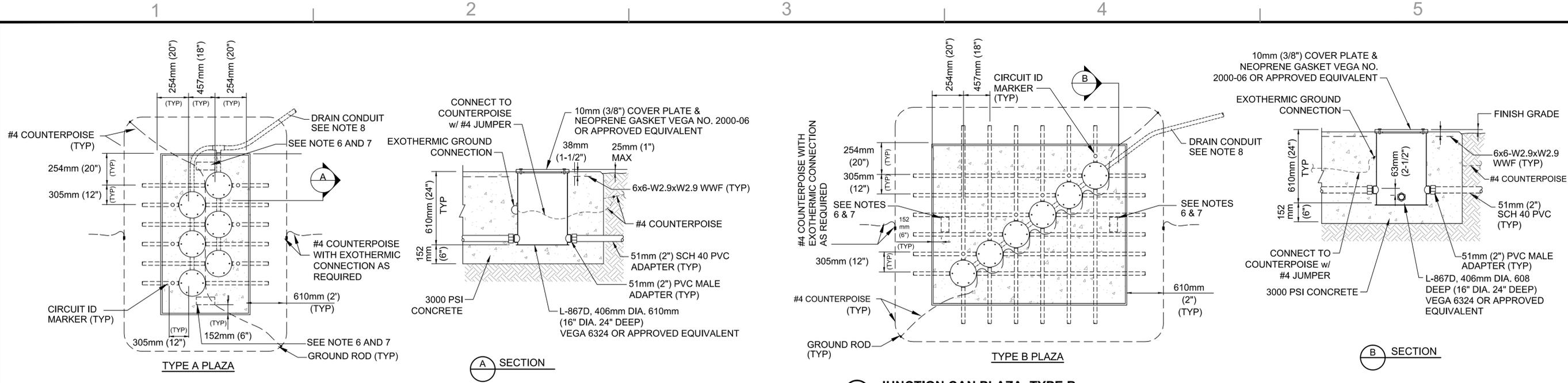


4 CONCRETE OR FLOWABLE FILL ENCASED DUCT BANK DETAILS - TYPICAL ARRANGEMENTS
SCALE: NTS

- NOTES:
- USE THIS DETAIL FOR CONCRETE ENCASED AND FLOWABLE FILL ENCASED DUCT BANKS. SEE SPECIFICATION SECTION 31 23 23.33 FOR FLOWABLE FILL.
 - SEE PLANS FOR LIMITS OF EACH TYPE OF DUCT BANK.
 - SEE PLAN NOTES FOR NUMBER OF CONDUITS IN EACH DUCT BANK.
 - TRENCHES ARE TO BE BACKFILLED ON A DAILY BASIS WITH NO MORE THAN ONE DAYS EXCAVATION OPEN OVERNIGHT.
 - DUCT LAYOUT IS AT CONTRACTOR OPTION WITH ENGINEER'S APPROVAL. REQUIRED SPACING BETWEEN POWER AND SIGNAL MUST BE MAINTAINED.

DATE	6 NOV 15
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DESCRIPTION	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
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DES EFC	DRW MRM
CHK MWK	
PROJECT MANAGER	
IPT TECH BRANCH HEAD	
CHIEF ENGINEER (CORE)	
NAVAL FACILITIES ENGINEERING COMMAND	
SOUTHEAST	
NAVAL AIR STATION JACKSONVILLE	
CORPUS CHRISTI, TEXAS	
NAFAC DRAWING NO.	15095302
SHEET	25 OF 33
E-501	
<small>DRAWFORM REVISION: 5 APRIL 2012</small>	

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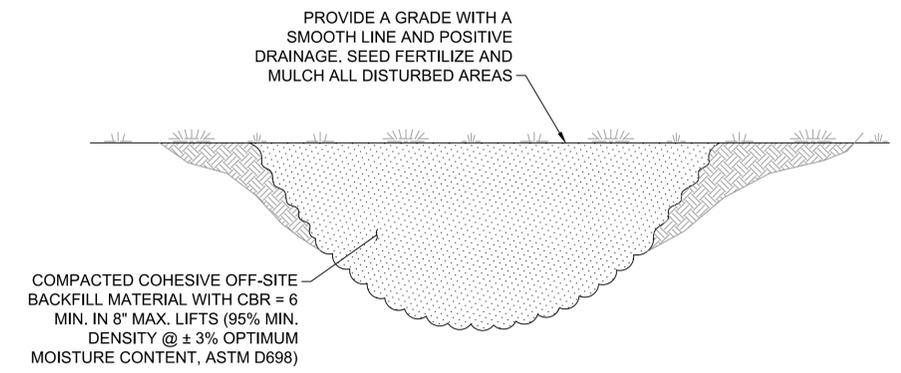


1 JUNCTION CAN PLAZA, TYPE A
SCALE: NTS

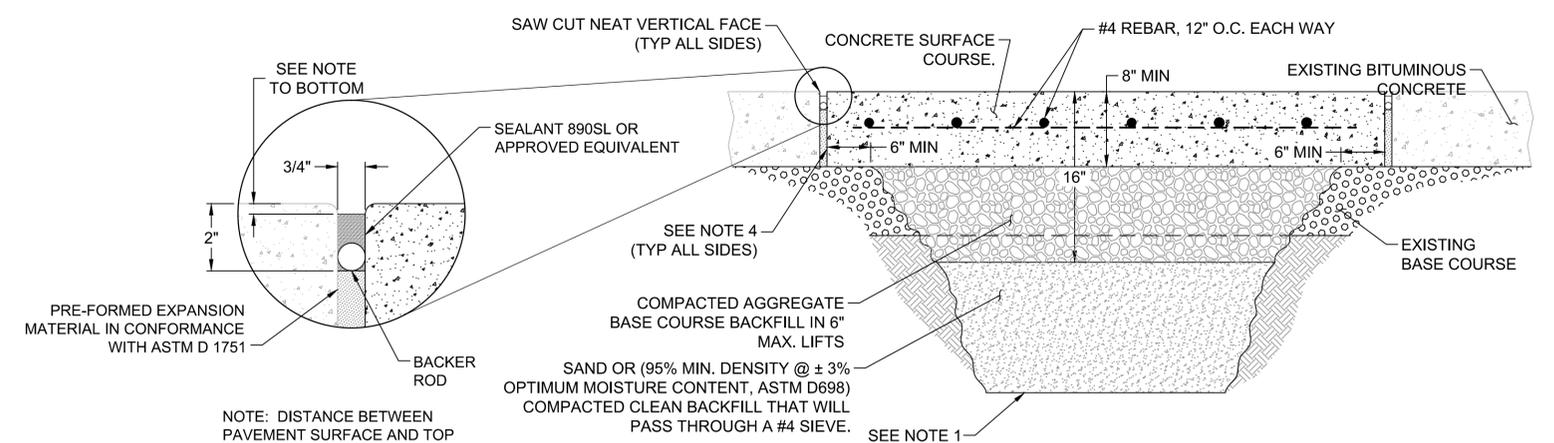
2 JUNCTION CAN PLAZA, TYPE B
SCALE: NTS

- NOTES:**
- NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
 - CONDUITS WHICH ARE NOT USED IN THE PROJECT MUST BE CAPPED 304mm (12") OUTSIDE OF PLAZA CONCRETE.
 - ORIENT PLAZA AS SHOWN ON LAYOUT PLAN SHEETS.
 - CONTRACTOR MUST PROVIDE A 51mm (2") DIA DOMED BRONZE MARKER AT EACH JUNCTION CAN AS SHOWN. MARKER MUST BE STAMPED WITH CIRCUIT IDENTIFICATION AS SHOWN ON LAYOUT PLAN SHEETS.
 - PROVIDE GROUND RODS AND GROUND LOOP AT ALL JUNCTION CAN PLAZAS AS SHOWN. PROVIDE TWO GROUND RODS PER PLAZA LOCATED AT OPPOSITE CORNERS. COUNTERPOISE MUST BE LOCATED NOMINALLY 304mm (12") BELOW EXISTING GRADE.
 - CONTRACTOR MUST LABEL 2 ENDS OF EACH JUNCTION CAN PLAZA (JCP) BY IMPRESSING THE JCP IDENTIFICATION NUMBER INTO THE CONCRETE FOUNDATION DURING PLACEMENT. LETTERS AND NUMBERS MUST BE 102mm (4") IN HEIGHT, PROPORTIONAL IN WIDTH, AND HAVE A STROKE WIDTH OF 13mm (1/2") AND 6mm (1/4") DEPTH.
 - SEE LAYOUT PLAN SHEETS FOR JCP IDENTIFICATION NUMBERS.
 - DRAINS NOT REQUIRED FOR THIS PROJECT. DRAIN CONDUIT BETWEEN CANS NOT REQUIRED FOR THIS PROJECT.

- NOTES:**
- NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
 - CONDUITS WHICH ARE NOT USED IN THE PROJECT SHALL BE CAPPED 304mm (12") OUTSIDE OF PLAZA CONCRETE.
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 - CONTRACTOR SHALL LABEL 2 ENDS OF EACH JUNCTION CAN PLAZA (JCP) BY IMPRESSING THE JCP IDENTIFICATION NUMBER INTO THE CONCRETE FOUNDATION DURING PLACEMENT. LETTERS AND NUMBERS MUST BE 102mm (4") IN HEIGHT, PROPORTIONAL IN WIDTH, AND HAVE A STROKE WIDTH OF 13mm (1/2") AND 6mm (1/4") DEPTH.
 - SEE LAYOUT PLAN SHEETS FOR JCP IDENTIFICATION NUMBERS.
 - DRAINS NOT REQUIRED FOR THIS PROJECT. DRAIN CONDUIT BETWEEN CANS NOT REQUIRED FOR THIS PROJECT.



3 DEMOLITION/REPAIR IN TURF AREA DETAIL
SCALE: NTS



4 DEMOLITION REPAIR IN-SHOULDER PAVEMENT DETAIL
SCALE: NTS

- NOTES:**
- PRIOR TO BACKFILLING, CLEAN-OUT EXCAVATED AREA OF LOOSE MATERIAL TO EXPOSE UNDISTURBED EDGES.
 - IN A NON-MILLED SHOULDER AREA, THE ASPHALT PATCH MUST MATCH THE EXISTING PAVEMENT SURFACE.
 - COMPACTED AGGREGATE BASE COURSE MUST BE COMPACTED TO A 98% MIN. DENSITY @ ±3% OPTIMUM MOISTURE CONTENT PER ASTM D698.
 - PRIOR TO PAVING, APPLY A BITUMINOUS PRIME COAT ON EXISTING ASPHALT AND ALL HORIZONTAL AGGREGATE BASE COURSE SURFACES AT A RATE OF ~0.15 GALLONS PER SQ. YARD.

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DESCRIPTION	
SCALE	NTS
PROJECT NO.	15095303
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095303
SHEET	26 OF 33
E-502	
DRAWFORM REVISION: 5 APRIL 2012	

STATE OF TEXAS
JON M. McCALMONT
100633
LICENSED PROFESSIONAL ENGINEER
6 NOV 15

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www.deltairportconsultants.com
Delta Project No. 14072_AE(NE)

APPROVED FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE
DES EFC | DRW MRM | CHK MWK

PROJECT MANAGER
IPT TECH BRANCH HEAD
CHIEF ENGINEER (CORE)

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
NAS CORPUS CHRISTI
CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI AIRFIELD REPAIRS
RUNWAY 13R APPROACH LIGHTS
ELECTRICAL DETAILS

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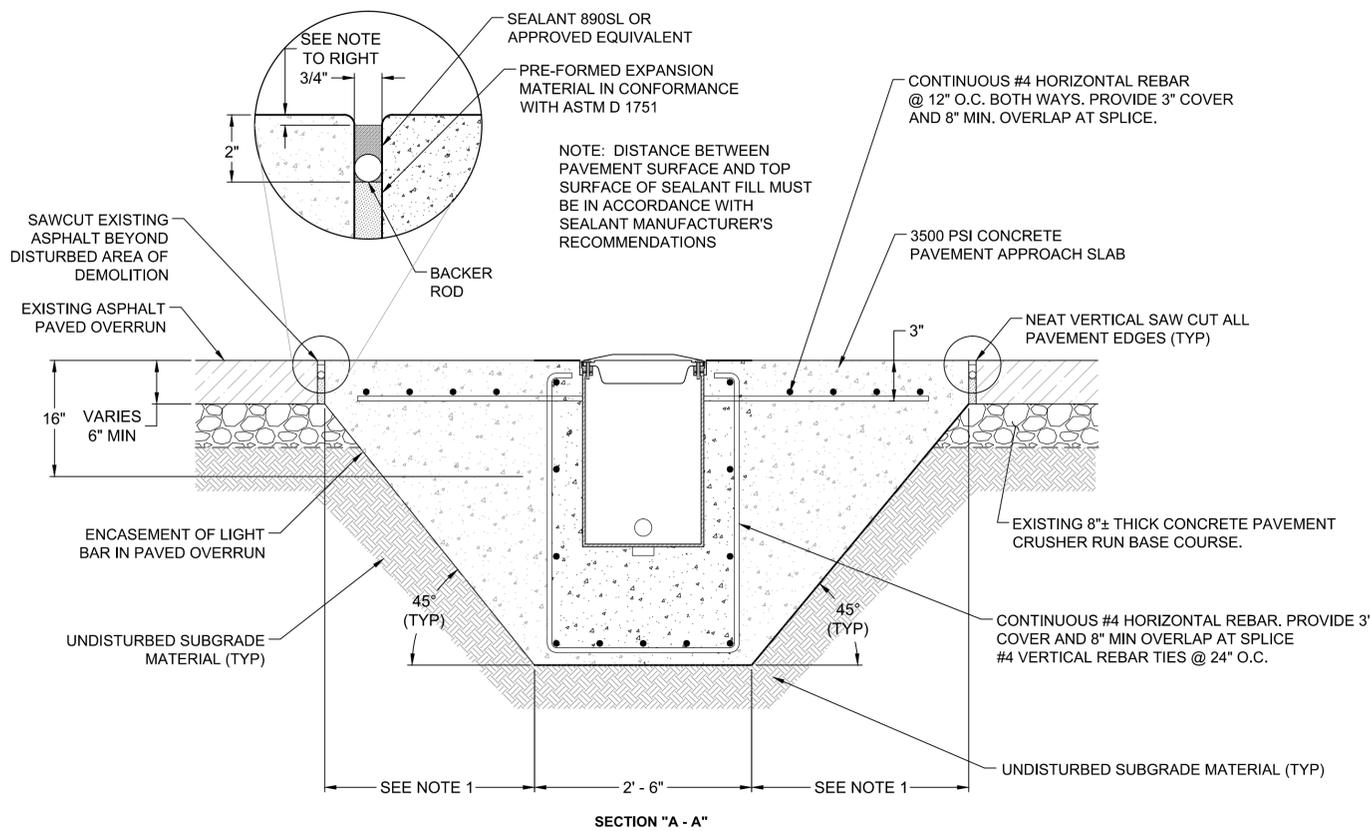
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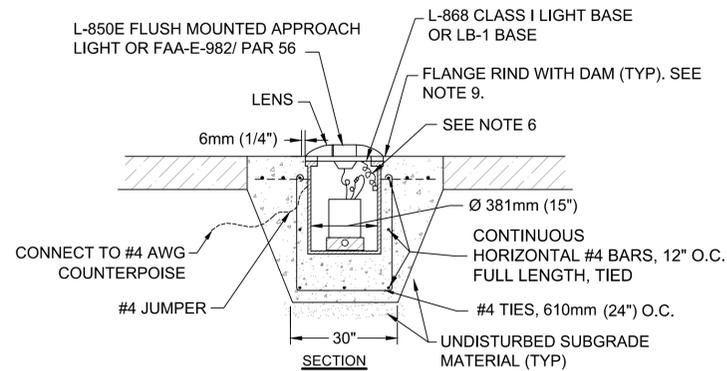
5



1 TYPICAL LIGHT BAR CONNECTION DETAIL TO PAVED OVERRUN
SCALE: NTS

NOTE:

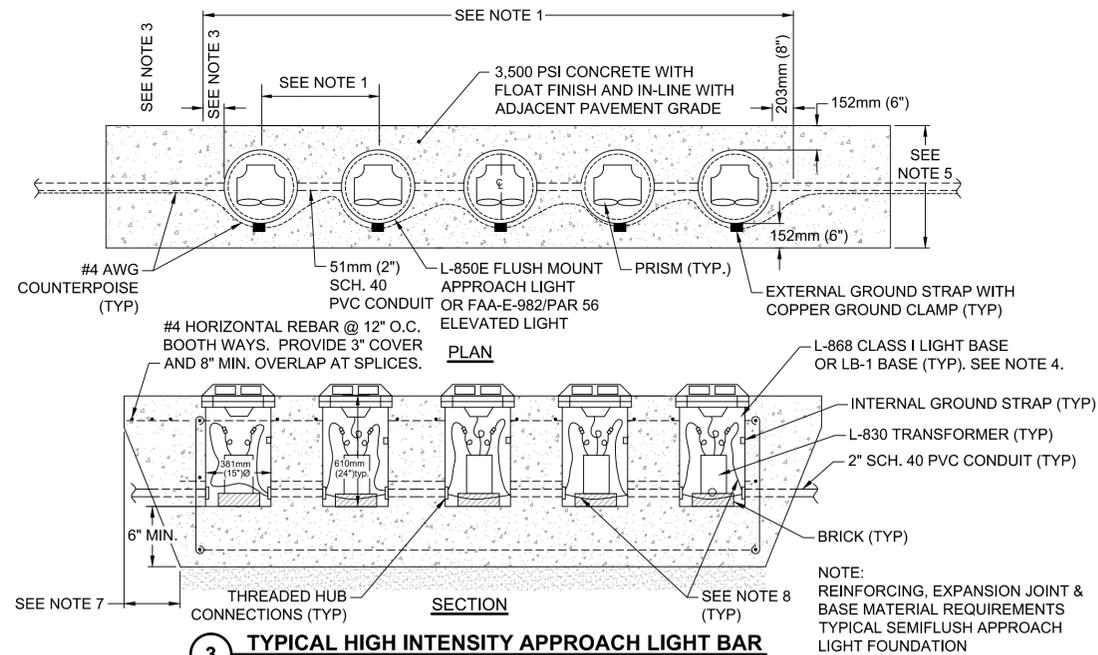
1. PROVIDE 2'-6" MIN. SAME DIMENSION ON BOTH SIDES.
2. PROVIDE AN APPROVED STEEL SETTING JIG FOR SECURING EACH BASE AND THE REBAR FOR THE INSTALLATION OF THE CONCRETE.



2 TRENCH, CONDUIT, & DUCT BANK NOTES

SCALE: NTS

1. ROUTE 5KV CABLES IN LOWER LEVEL CONDUITS WHERE POSSIBLE. DO NOT ROUTE DIFFERENT VOLTAGE CLASSIFICATION CABLES IN THE SAME CONDUIT.
2. GROUND RODS MUST ALSO BE USED TO TERMINATE COUNTERPOISE AT BOTH ENDS OF TRENCH, CONDUIT RUN, OR DUCT BANK.
3. PROVIDE CABLE TAGS FOR EACH CABLE OR WIRE AT DUCT ENTRANCES ENTERING OR LEAVING OF MANHOLES, HANDHOLES, AND AT EACH TERMINAL WITHIN THE LIGHTING VAULT. USE RAISED LETTER NOT LESS THAN 1/4 INCH IN HEIGHT (REF UFGS-34 43 Art 2.4.5).



3 TYPICAL HIGH INTENSITY APPROACH LIGHT BAR
SCALE: NTS

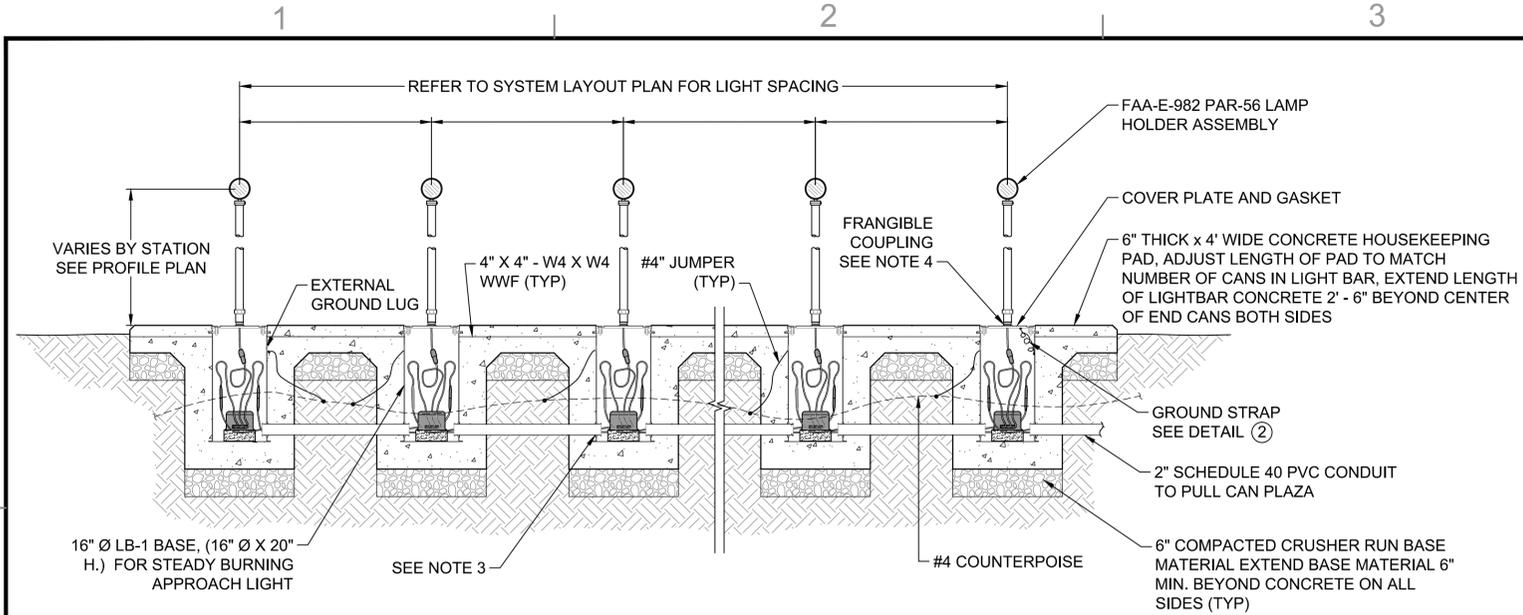
NOTES:

1. LIGHT SPACING VARIES. REFER TO SYSTEM LAYOUT PLAN FOR DIMENSIONS.
2. NUMBER OF LIGHTS PER BAR VARIES. REFER TO SYSTEM LAYOUT PLAN FOR DIMENSIONS.
3. DIMENSION VARIES. USE 0'-8" MIN.
4. THE L-850E LIGHT FIXTURE MUST BE MOUNTED ON A L-868 BASE (15" DIA X 20" H). THE FAA-E-982/PAR 56 LIGHT FIXTURE MUST BE MOUNTED ON A LB-1 BASE (16" DIA. X 20" H.) AND PROVIDED IN THE SAME MANNER AS THE L-868 BASE. FIXTURES MUST BE PLUMB.
5. DIMENSION VARIES USE 6'-6" MIN.
6. PROVIDE BRAIDED FLAT TINNED COPPER GROUNDING STRAP BY FIXTURE MFR. (72" LONG). CONNECT TO INTERNAL GROUND STRAP WITH COPPER GROUND CLAMP.
7. PROVIDE 2'-6" MIN. AND SAME DIMENSION BOTH ENDS.
8. PROVIDE 4' MIN. SLACK ON EACH 5 KV CABLE.
9. TOP OF DAM 1/16" BELOW CONCRETE SURFACE AND PROVIDE POSITIVE DRAINAGE AWAY FROM FIXTURE.

DATE	6 NOV 15
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DESCRIPTION	
SCALE	NTS
PROJECT NO.	15095304
CONSTR. CONTR. NO.	
NAVIFAC DRAWING NO.	15095304
SHEET	27 OF 33
E-503	
DRAWFORM REVISION: 5 APRIL 2012	

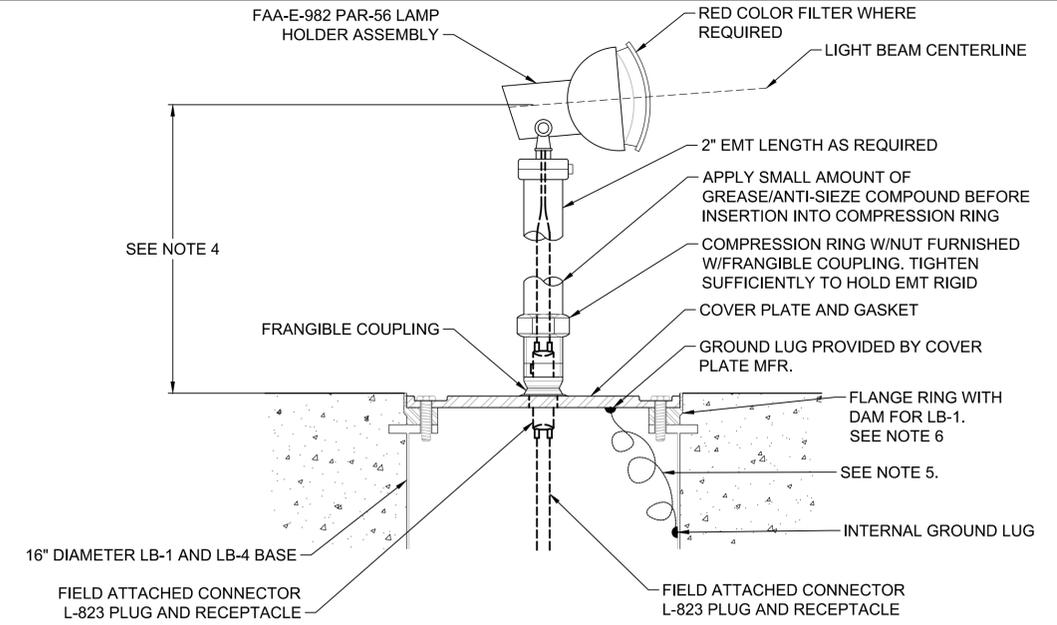
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
CIBL CORE
NAS CORPUS CHRISTI
CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI AIRFIELD REPAIRS
RUNWAY 13R APPROACH LIGHTS
ELECTRICAL DETAILS

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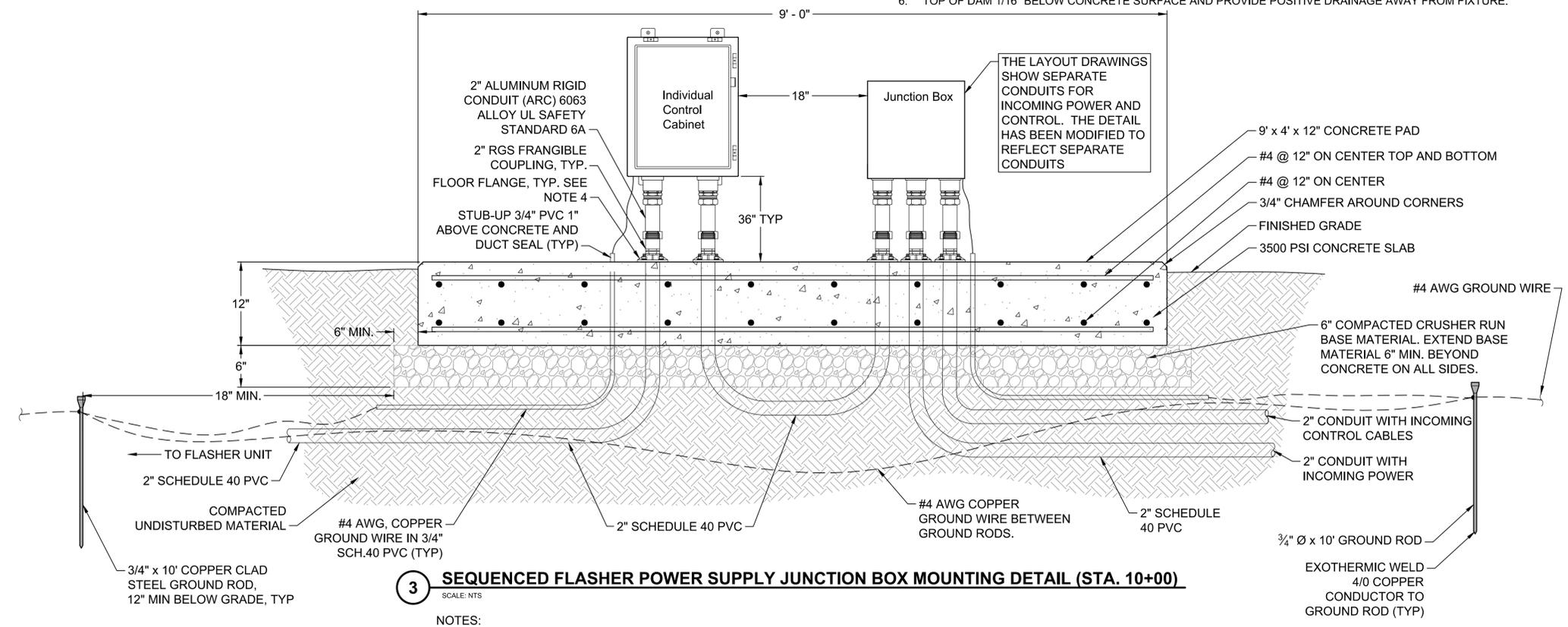
1 TYPICAL ELEVATED HIGH INTENSITY APPROACH LIGHT BAR (0' TO 6'0" MAX) (STA. 10+00 ONLY)
SCALE: NTS

- NOTES:
- ELEVATED LIGHT FIXTURES MUST BE PLACED ON LB-1 BASES WITH THREADED HUBS.
 - MAXIMUM MOUNTING HEIGHT OF CONFIGURATION SHOWN IS 6' - 0". FOR MOUNTING INSTALLATION OF MORE THAN 6' 0", SEE TOWER INSTALLATION DETAILS.
 - BASES MUST HAVE THREADED HUBS AND CONDUITS MUST BE TERMINATED WITH A STANDARD PVC MALE ADAPTERS.
 - CONNECTION MUST BE CLEAN AND DRY WITH A LIGHT COATING OF NEVER-SEIZE COMPOUND.
 - CONDUITS MUST BE DUCT SEALED.
 - EACH LIGHT BASE MUST BE CONNECTED TO THE COUNTERPOISE BY ATTACHING A #4 COPPER JUMPER TO AN EXTERNAL GROUND LUG ON THE BASE AND ATTACHING TO THE COUNTERPOISE USING AN EXOTHERMIC WELD.



2 TYPICAL HIGH INTENSITY ELEVATED APPROACH LIGHT (6'-0" MAX)
SCALE: NTS

- NOTES:
- GREEN COLOR FILTER FOR THRESHOLD BAR.
 - RED COLOR FILTER FOR PRE-THRESHOLD AND TERMINATED BARS.
 - NO COLOR FILTER FOR CENTERLINE BARS; 1000' BAR.
 - SEE PROFILE FOR FIXTURE MOUNTING HEIGHT AT STA. 10+00. FIXTURE MOUNTING HEIGHT IN PAVED OVERRUN MUST BE 12" MAXIMUM AND FIXTURES MUST BE AS LOW AS POSSIBLE & FIXTURE MUST BE AT THE SAME ELEVATION AT EACH STATION.
 - PROVIDE BRAIDED FLAT THINNED COPPER GROUNDING STRAP BY FIXTURE MFR. (72" LONG). CONNECT TO INTERNAL GROUND STRAP WITH COPPER GROUND LUG.
 - TOP OF DAM 1/16" BELOW CONCRETE SURFACE AND PROVIDE POSITIVE DRAINAGE AWAY FROM FIXTURE.

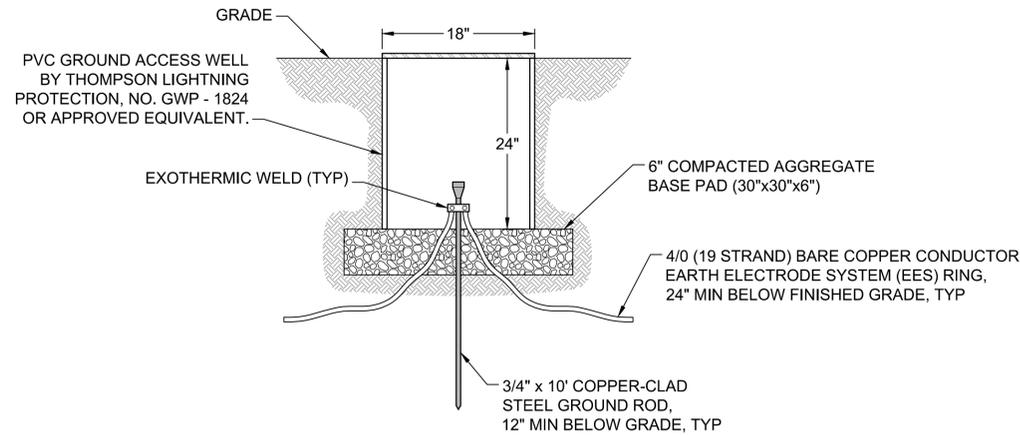


3 SEQUENCED FLASHER POWER SUPPLY JUNCTION BOX MOUNTING DETAIL (STA. 10+00)
SCALE: NTS

- NOTES:
- CONTRACTOR MUST UTILIZE STAINLESS STEEL MOUNTING HARDWARE (BOLTS, ETC)
 - REFER TO SCHEMATIC WIRING DIAGRAM FOR SIZE AND NUMBER OF CABLES.
 - INSTALLATION MUST COMPLY WITH MANUFACTURER'S REQUIREMENTS (PROVIDED BY MANUFACTURER)
 - APPLY COAT OF BITUMINOUS MASTIC MATERIAL TO THE BOTTOM OF THE FLOOR FLANGE BEFORE FINAL INSTALLATION ON THE CONCRETE.

DATE	6 NOV 15
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FOR COMMANDER NAVFAC	
ACTIVITY	
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DRW	MRM
CHK	MWK
PROJECT MANAGER	
PT TECH	BRANCH HEAD
CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY	
NAVAL FACILITIES ENGINEERING COMMAND	
SOUTHEAST	
NAVAL AIR STATION JACKSONVILLE	
CORPUS CHRISTI, TEXAS	
NAS CORPUS CHRISTI	
NAS CORPUS CHRISTI AIRFIELD REPAIRS	
RUNWAY 13R APPROACH LIGHTS	
ELECTRICAL DETAILS	
SCALE	NTS
PROJECT NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095305
SHEET	28 OF 33
E-504	
DRAWING REVISION: 5 APRIL 2012	

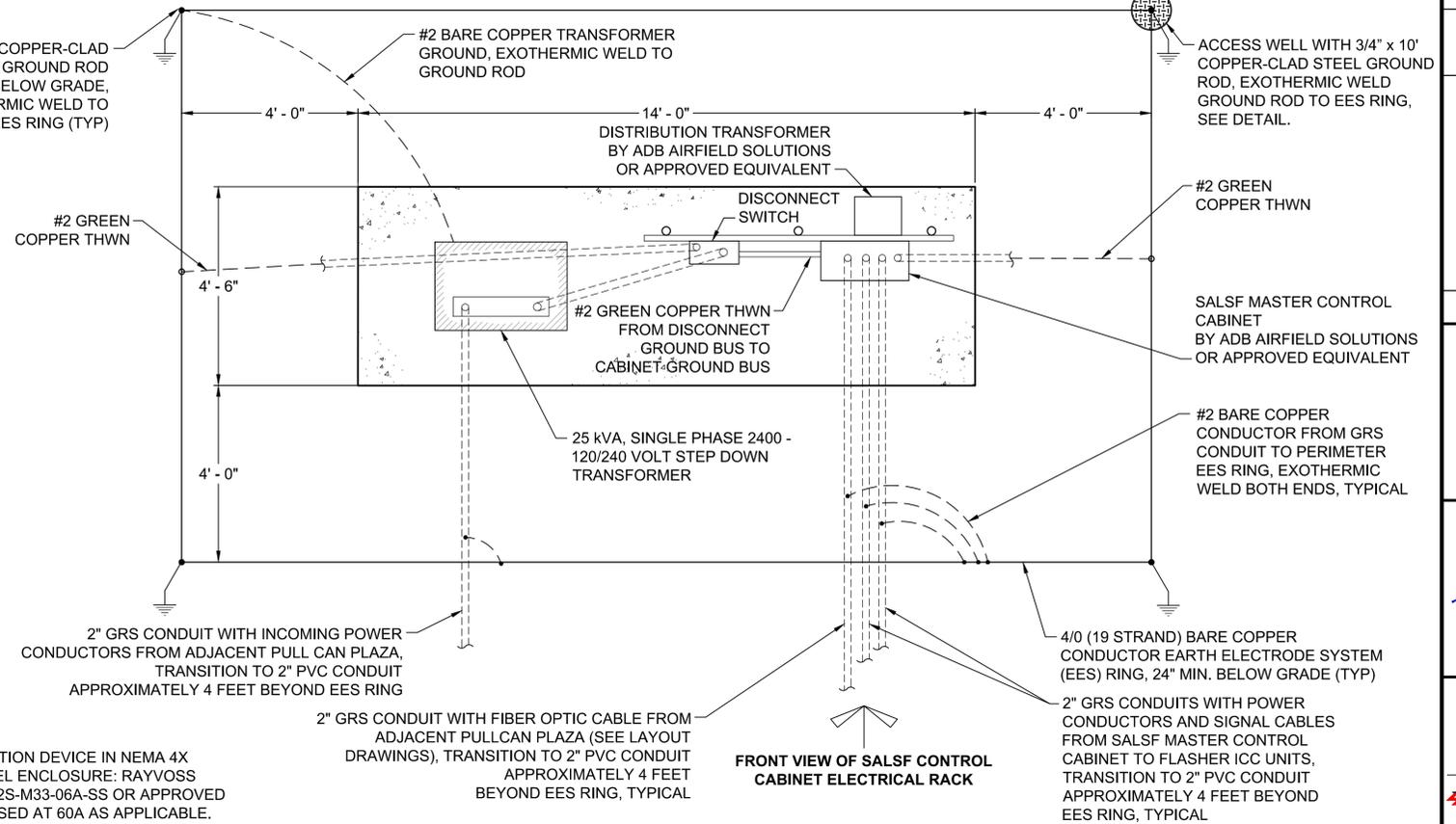
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1 ACCESS WELL DETAIL
SCALE: NTS

NOTE:

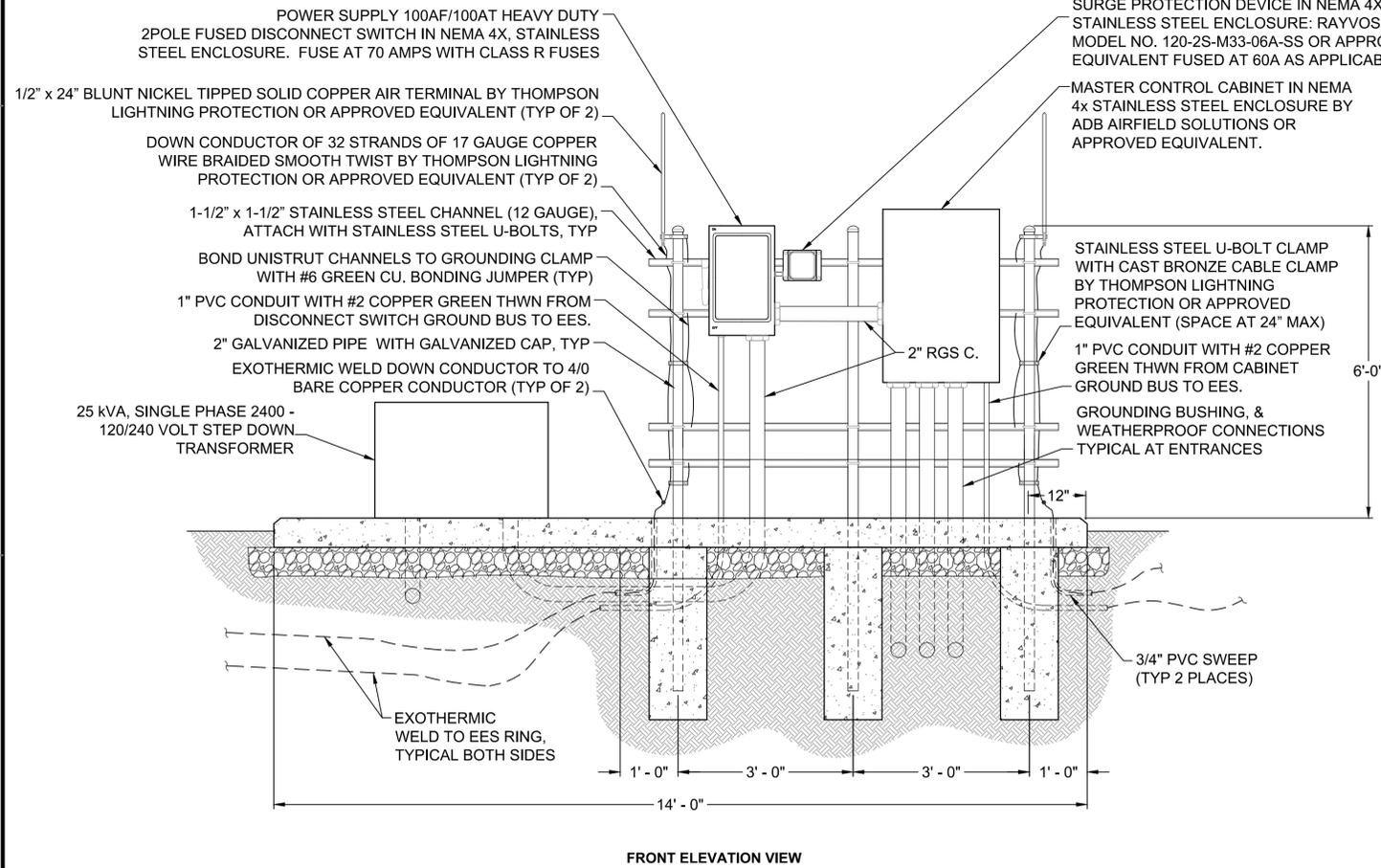
1. ALL INSTALLATIONS SHOWN ABOVE ARE CONTRACTOR FURNISHED/INSTALLED UNLESS NOTED OTHERWISE.



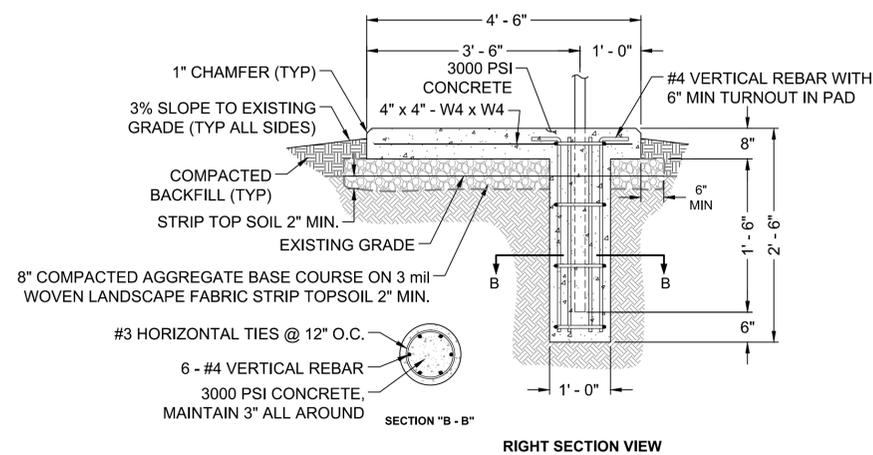
2 SALSF MASTER CONTROL CABINET ELECTRICAL RACK GROUNDING DETAIL
SCALE: NTS

NOTE:

1. CONNECT EACH #4 BARE TRENCH COUNTERPOISE TO #1/0 EES AT EACH CROSSING POINT.



3 SALSF MASTER CONTROL CABINET ELECTRICAL RACK DETAIL
SCALE: NTS



DATE	6 NOV 15
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APPROVED	
FOR COMMANDER NAVFAC	
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PROJECT MANAGER	
PT TECH BRANCH HEAD	
CHIEF ENGR/ARCH (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS RUNWAY 13R APPROACH LIGHTS ELECTRICAL DETAILS	
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095306
SHEET	29 OF 33
E-505 <small>DRAWING REVISION: 5 APRIL 2012</small>	

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CABINET LINEUP #3 (CONSTANT CURRENT REGULATORS)

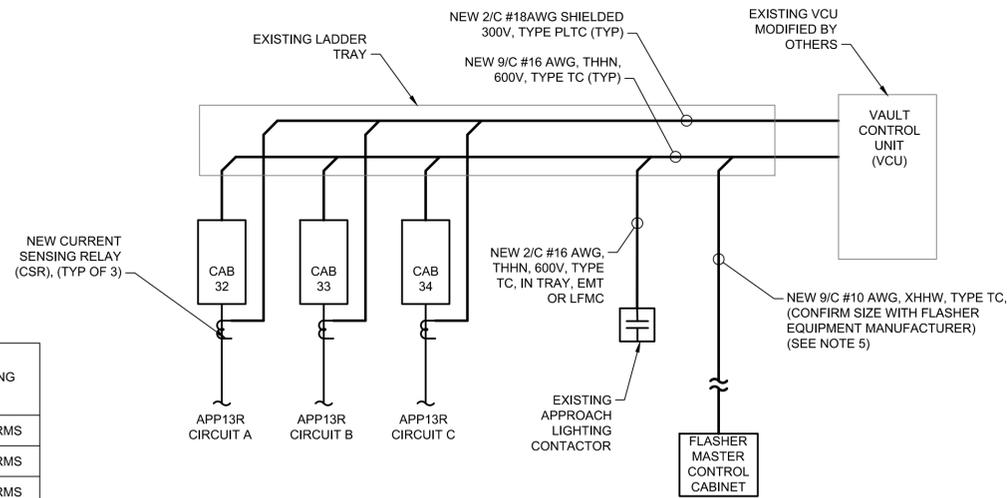
CCR POS #	CCR NAME	KW	OUTPUT CURRENT	STEPS	MONITORING
32	APP13R-A	30	20A	5	TYPE C W/ IRMS
33	APP13R-B	30	20A	5	TYPE C W/ IRMS
34	APP13R-C	20	20A	5	TYPE C W/ IRMS

CCR INDEX NOTES:

- FURNISH AND INSTALL NEW CONSTANT CURRENT REGULATORS (CCRS) WITH RATINGS AS LISTED IN THE CCR INDEX ABOVE.
- CCR'S SHALL BE CABINET-STYLE REGULATORS AND MUST BE COMPATIBLE WITH THE EXISTING CABINET SYSTEM IN THE AIRFIELD LIGHTING VAULT.
- CABINETS FOR THE THREE (3) NEW CCRS ARE EXISTING.

1 CONSTANT CURRENT REGULATOR (CCR) INDEX

SCALE: NTS

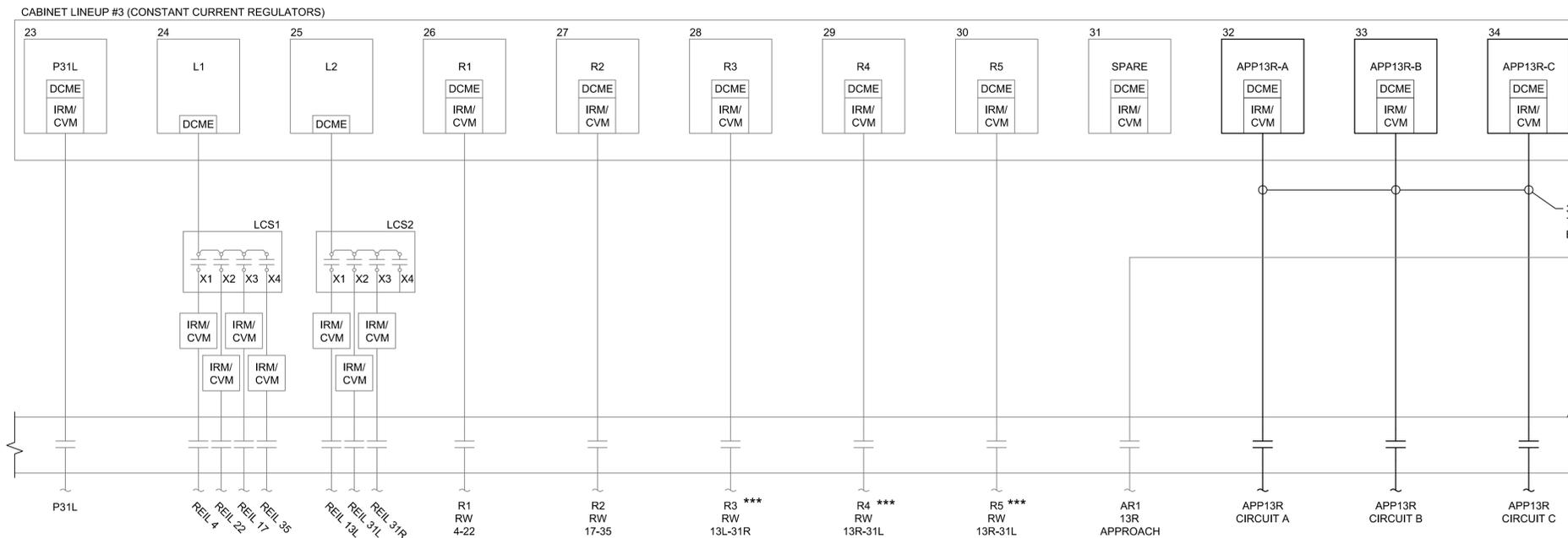


LIGHTING CONTROL NOTES

- REMOVE LIGHTING CONTROL CABLES AND CURRENT SENSING RELAY (CSR) FROM THE EXISTING APPROACH LIGHTING REGULATOR (AR1).
- PROVIDE NEW LIGHTING CONTROL CABLES AND NEW CSR'S FROM THE EXISTING VAULT CONTROL UNIT TO THE NEW CONSTANT CURRENT REGULATORS (CCR'S) USING THE EXISTING OVERHEAD LADDER TRAY.
- TERMINATIONS IN THE VCU WILL BE MADE BY OTHERS.
- THE EXISTING LIGHTING CONTROL SYSTEM IS A NAVY STANDARD SYSTEM MANUFACTURED AND SUPPORTED BY EDGECON SYSTEMS, INC. THE APPROACH LIGHTING CONTRACTOR MUST COORDINATE WORK SCHEDULES AND TESTING WITH THE CONTRACTOR PERFORMANCE WORK ON THE LIGHTING CONTROL SYSTEM. FINAL TESTING OF THE APPROACH LIGHTING PROJECT MUST INCLUDE OPERATIONAL TESTING USING THE MODIFIED/REPROGRAMMED VCU. THE APPROACH LIGHTING CONTRACTOR MUST PARTICIPATE IN THE FINAL TESTING AND PUNCHLIST DEVELOPMENT TO ADDRESS ANY WORK ITEMS ASSOCIATED WITH THE WORK ACCOMPLISHED BY THE APPROACH LIGHTING CONTRACTOR.
- SALSF FLASHER CONTROL CABLE IS A 600V RATED CABLE AND SHOULD ENTER THE VAULT THROUGH AN EXISTING CONDUIT IN THE WEST CORNER THAT TURNS UP INTO THE VAULT UNDERNEATH THE 600V WINDCONE PANEL IN THE NORTH CORNER. PROVIDE EMT CONDUIT AND LFMC CONDUIT TO BRING THE FLASHER CONTROL CABLE UP THE VAULT WALL TO THE LADDER TRAY.

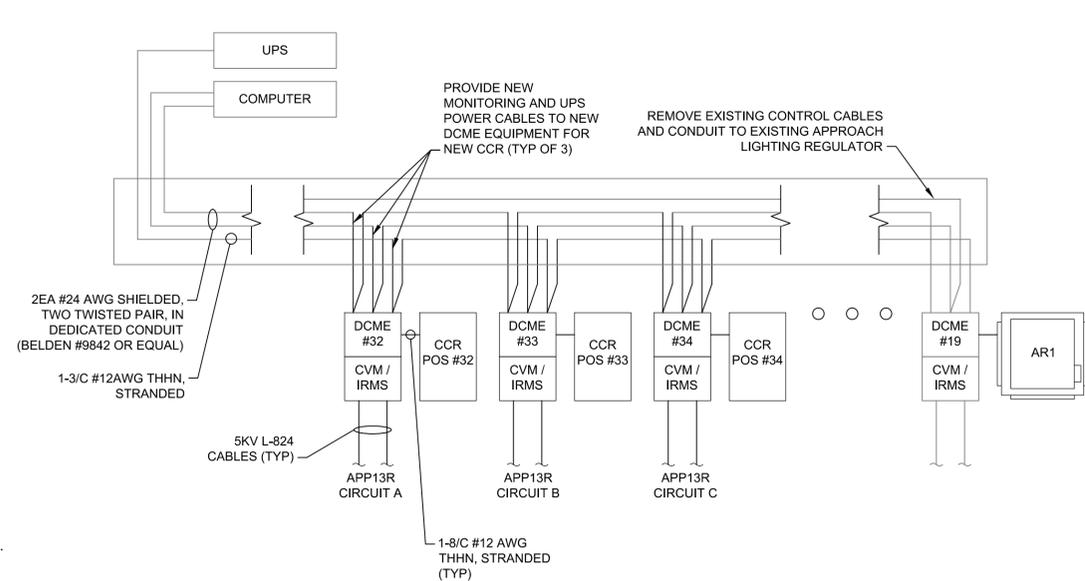
2 LIGHTING CONTROL WIRING DIAGRAM

SCALE: NTS



4 WIRING DIAGRAM, CABINET LINEUP 3

SCALE: NTS

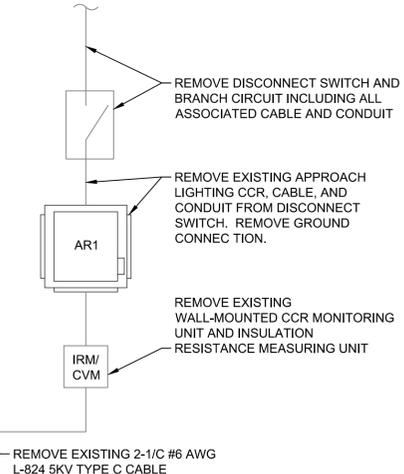


INSULATION RESISTANCE MONITORING SYSTEM NOTES

- REMOVE EXISTING CONTROL CABLES AND CONDUIT AND THE WALL-MOUNTED DCME AND CVM/IRMS FOR EXISTING APPROACH LIGHTING CONSTANT CURRENT REGULATOR (CCR) AR1.
- PROVIDE NEW DCME AND CVM/IRMS EQUIPMENT INTEGRAL TO THE NEW APPROACH LIGHTING CCR'S.
- PROVIDE NEW CONTROL AND MONITORING CABLES FROM THE EXISTING VAULT CONTROL UNIT (VCU) TO EACH OF THE NEW APPROACH LIGHTING CCR'S.

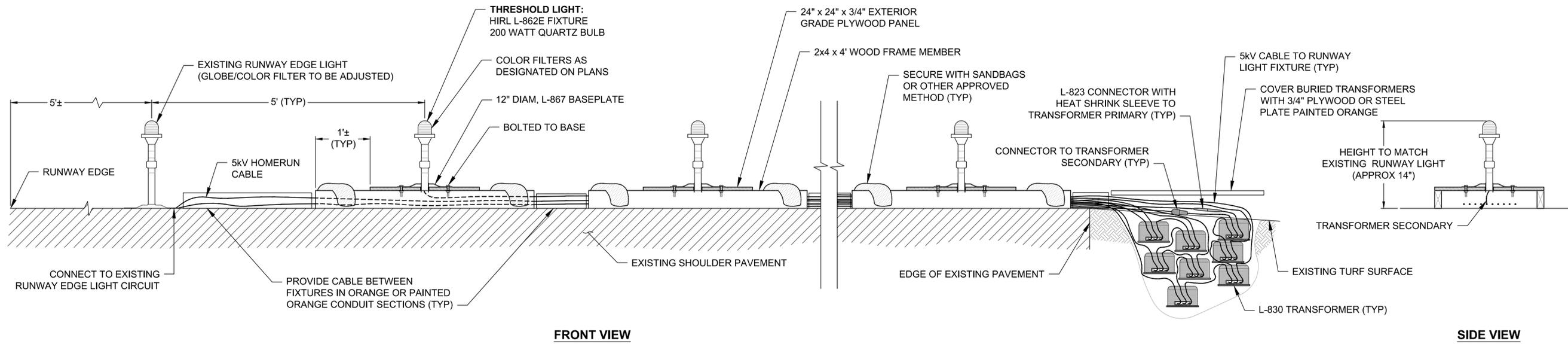
3 INSULATION RESISTANCE MONITORING SYSTEM (IRMS) WIRING DIAGRAM

SCALE: NTS

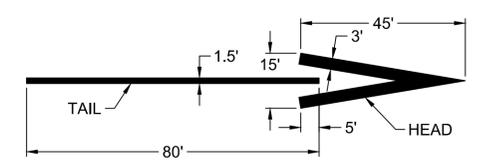


ISSUED FOR BID	0	SYN	DESCRIPTION	6 NOV 15	DATE
<p>APPROVED</p> <p>FOR COMMANDER NAVFAC</p> <p>ACTIVITY</p>					
<p>SATISFACTORY TO DATE</p> <p>DES DAB DRW DAB CHK JMM</p> <p>PROJECT MANAGER</p> <p>IPT TECH BRANCH HEAD</p> <p>CHIEF ENGINEER (CORE)</p>					
<p>DEPARTMENT OF THE NAVY</p> <p>NAVAL FACILITIES ENGINEERING COMMAND</p> <p>NAVAL AIR STATION JACKSONVILLE</p> <p>CIBL CORE</p> <p>NAS CORPUS CHRISTI</p> <p>NAS CORPUS CHRISTI AIRFIELD REPAIRS</p> <p>RUNWAY 13R APPROACH LIGHTS</p> <p>VAULT WIRING DIAGRAM</p>					
<p>SCALE: NTS</p> <p>PROJECT NO.:</p> <p>CONSTR. CONTR. NO.:</p> <p>NAVFAC DRAWING NO. 15095307</p> <p>SHEET 30 OF 33</p> <p>E-506</p> <p>DRAWFORM REVISION: 5 APRIL 2012</p>					

N:\14072\04 CAD\04-Approach Lights\130243-E-506.dwg, E-506, 11/16/2015 1:25:12 PM, mm
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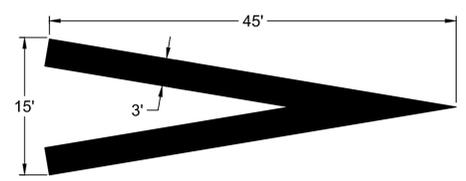


1 TEMPORARY RUNWAY THRESHOLD LIGHT DETAIL
SCALE: NTS



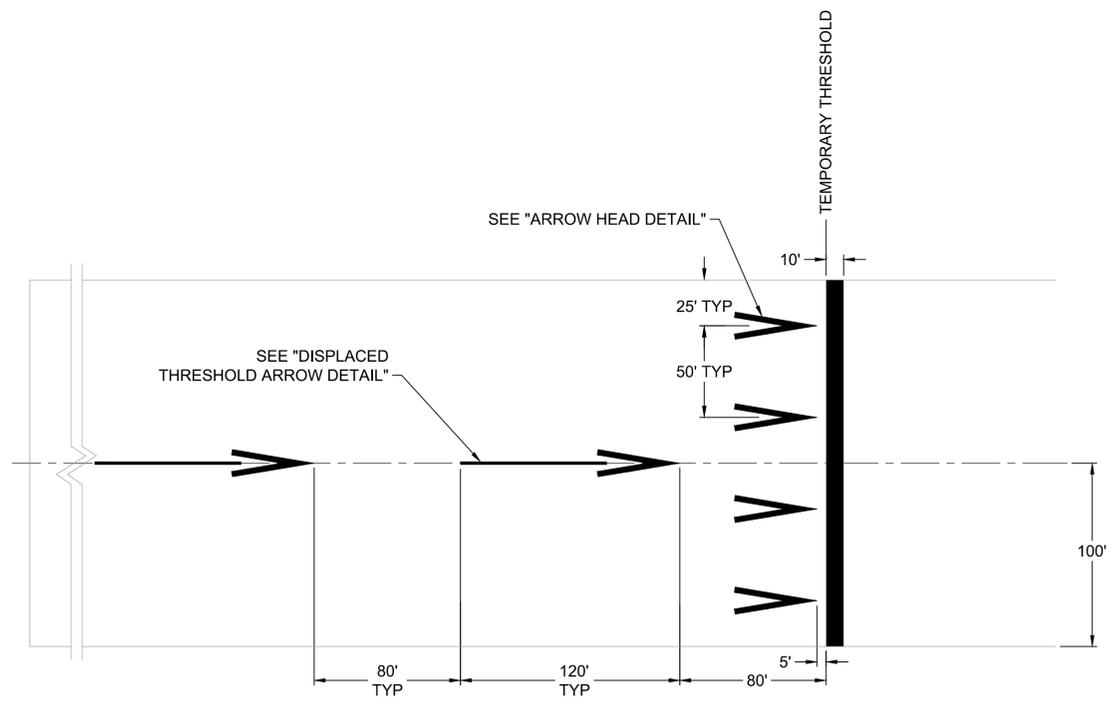
2 DISPLACED THRESHOLD ARROW DETAIL
SCALE: NTS

NOTE:
1. ARROW (TAIL & HEAD) MUST BE NONRETROREFLECTIVE AVIATION WHITE.



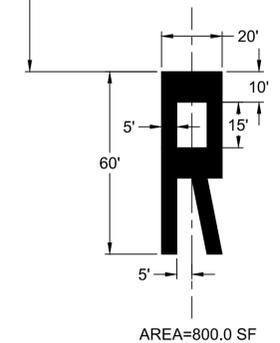
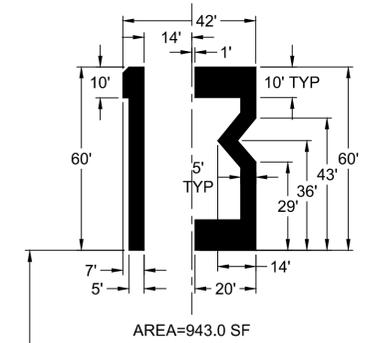
3 ARROWHEAD DETAIL
SCALE: NTS

NOTE:
1. ARROWHEAD MUST BE NONRETROREFLECTIVE AVIATION WHITE.



4 TEMPORARY THRESHOLD STRIPING 200' WIDE RUNWAY
SCALE: NTS

NOTE:
1. TEMPORARY THRESHOLD STRIPING, MUST BE NONRETROREFLECTIVE AVIATION WHITE.



5 RUNWAY DESIGNATION STRIPING DETAILS
SCALE: NTS

NOTES:
1. DESIGNATIONS ARE CENTERED ON THE RUNWAY CENTERLINE.
2. DESIGNATIONS MUST BE NONRETROREFLECTIVE AVIATION WHITE.

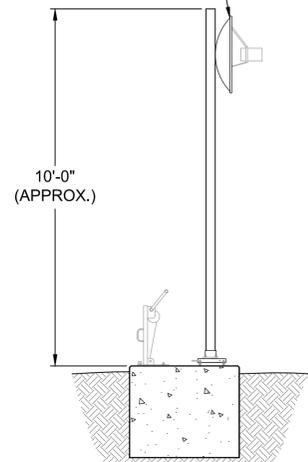
DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
SYMBOL	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES EFC DRW MJH CHK PROJECT MANAGER IPT TECH BRANCH HEAD CHIEF ENGR/ARCH (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE CIVIL CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS RUNWAY 13R APPROACH LIGHTS TEMPORARY THRESHOLD DETAILS	NAS CORPUS CHRISTI CORPUS CHRISTI, TEXAS
SCALE:	AS NOTED
PROJECT NO.:	15095308
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095308
SHEET	31 OF 33
E-507	
DRAWFORM REVISION: 5 APRIL 2012	

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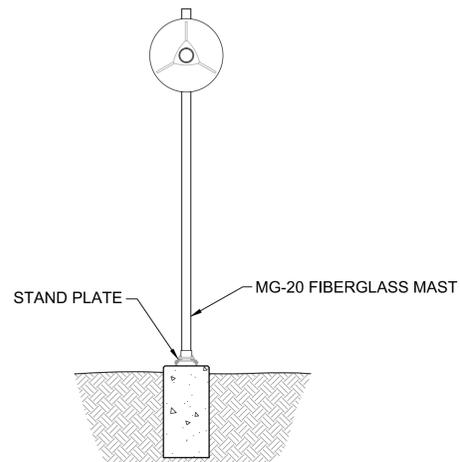
PAR REFLECTOR NOTES:

- GROUND ELECTRONICS PERSONNEL WILL REMOVE EXISTING PAR REFLECTOR EQUIPMENT.
- CONTRACTOR MUST SURVEY EXISTING PAR REFLECTOR TOWER LOCATION PRIOR TO REMOVAL.
- GROUND ELECTRONICS PERSONNEL WILL FINE TUNE THE PAR REFLECTOR EQUIPMENT AFTER INSTALLATION BY THE CONTRACTOR.
- GROUND ELECTRONICS TO PROVIDE HEIGHT OF PAR REFLECTOR.

SEE PAR NOTES THIS SHEET



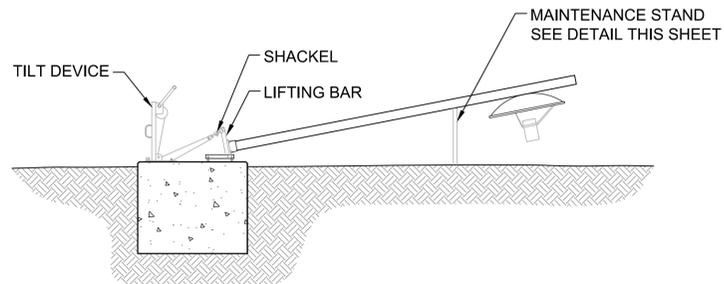
OPERATING POSITION - SIDE VIEW



OPERATING POSITION - FRONT VIEW

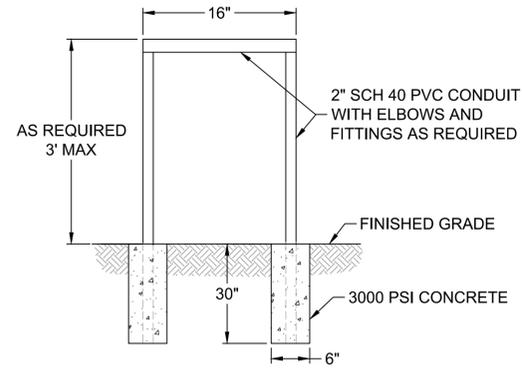


SERVICE POSITION - PLAN VIEW

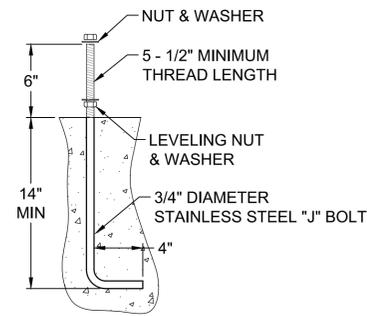


SERVICE POSITION - SIDE VIEW

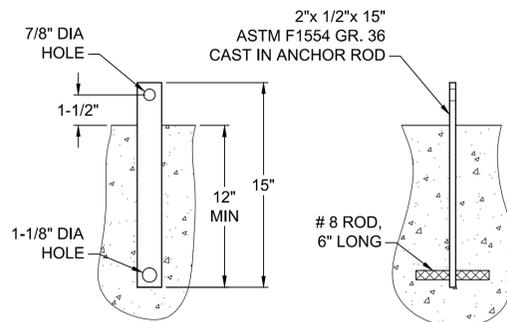
2 MG-20 FIBERGLASS MAST DETAIL
SCALE: NTS



1 SINGLE TOWER MAINTENANCE STAND DETAIL
SCALE: NTS



Anchor Bolt Detail (A1)



Anchor Plate Detail (A3)

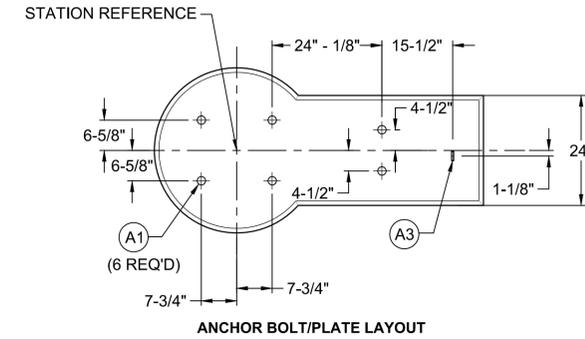
3 MG-20 ANCHOR BOLT/PLATE DETAIL
SCALE: NTS

NOTE:

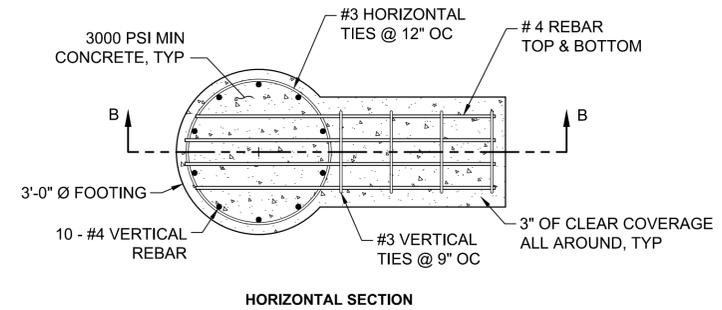
ANCHOR BOLT LAYOUT DETAILS ARE FOR GENERAL INFORMATION PURPOSES ONLY. CONTRACTOR MUST COORDINATE THE ANCHOR BOLT LAYOUT SHOWN HERE WITH THE MANUFACTURER'S ANCHOR BOLT LAYOUT INFORMATION PROVIDED WITH THE EQUIPMENT.

MG-20 FOUNDATION NOTES

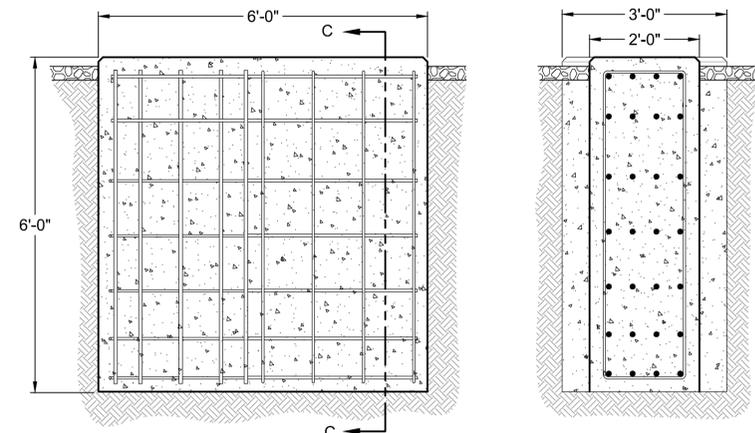
- CONCRETE STRENGTH = 3000 PSI + 28 DAYS
- SOIL BEARING CAPACITY = 1500 PSF.
- SECURELY PLACE CONDUITS AND ANCHOR BOLTS PRIOR TO PLACING CONCRETE.
- THE PLACEMENT DIMENSIONS SHOWN FOR THE ANCHOR BOLTS HAVE A TOLERANCE OF +/- 1/16".
- PLACE CONCRETE ON UNDISTURBED SOIL.
- REINFORCEMENT STEEL PER ASTM A 615, GR. 60; TIE WIRE TO BE 16 GAUGE OR LARGER ANNEALED IRON.



ANCHOR BOLT/PLATE LAYOUT



HORIZONTAL SECTION

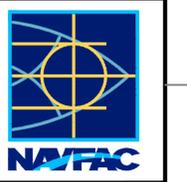


VERTICAL SECTION B-B

VERTICAL SECTION C-C

4 MG-20 FOUNDATION DETAIL
SCALE: NTS

DATE	6 NOV 15
ISSUED FOR BID	0
SYMBOL	DESCRIPTION



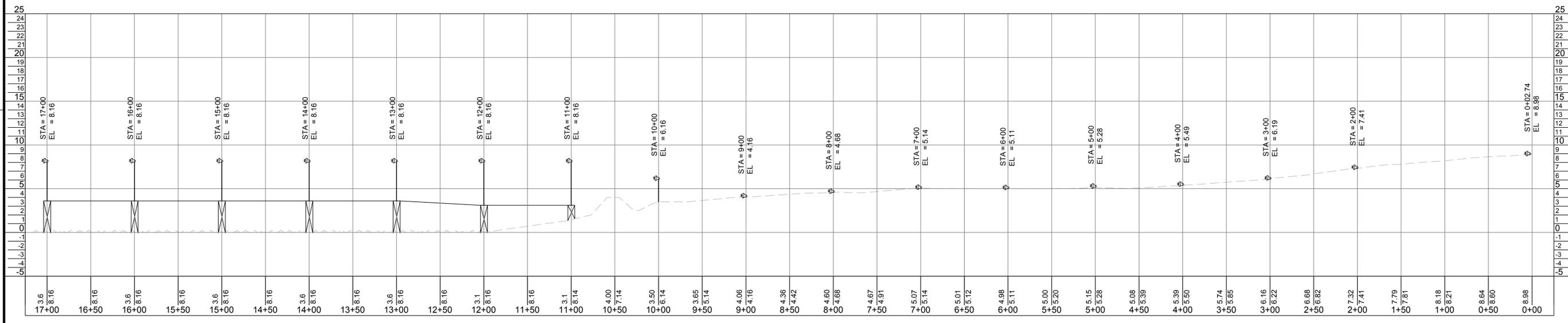
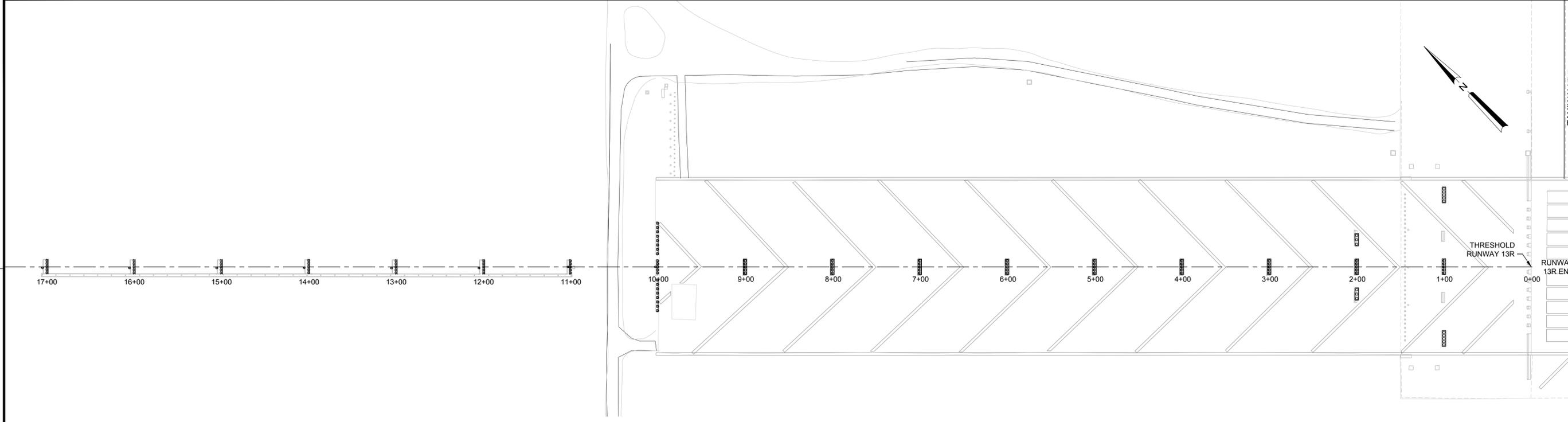
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES EFC DRW MJH CHK	
PROJECT MANAGER	
IPT TECH BRANCH HEAD	
CHIEF ENGR/ARCH (CORE)	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
CIBL CORE
NAS CORPUS CHRISTI
CORPUS CHRISTI, TEXAS
CORPUS CHRISTI AIRFIELD REPAIRS
RUNWAY 13R APPROACH LIGHTS
MTI REFLECTOR DETAILS

SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095309
SHEET	32 OF 33
E-508	

N:\14072\04 CAD\04-Approach Lights\1302443-E-508.dwg, E-508, 11/16/2015 1:25:20 PM, mm
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 FILE NAME: N:\140704 CAD\04-Approach Lights\130243-E-509.dwg LAYOUT NAME: E-509 PLOTTED: Friday, November 06, 2015 - 1:25pm USER: mm



APPROACH LIGHT RWY 13R PROFILE
 H: 1" = 60'
 V: 1" = 6'



NOTE: SFL NOT SHOWN IN PROFILE.

DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
SYMBOL	
APPROVED	

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES EFC | DRW MRM | CHK MWK

PROJECT MANAGER

IP/T TECH BRANCH HEAD

CHIEF ENGINEER (CORE)

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 NAS CORPUS CHRISTI
 NAS CORPUS CHRISTI AIRFIELD REPAIRS
 RUNWAY 13R APPROACH LIGHTS

SCALE: 1"=60'

PROJECT NO:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO:
 15095310

SHEET 33 OF 33

E-509

DRAWING REVISION: 5 APRIL 2012