

RED LIGHT MOUNTED ON BARRICADE. TWO PER BARRICADE. LIGHTS TO BE BATTERY OPERATED.

6" x 6" x 8" COLLAPSIBLE PLASTIC, MARKED ON TWO SIDES AND TOP AS NOTED

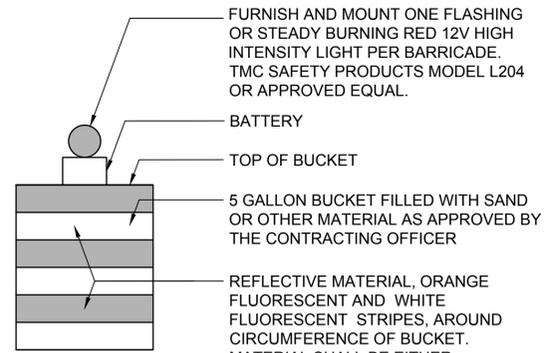
24" FLUORESCENT WHITE (TYP.)

12" FLUORESCENT ORANGE (TYP.)

NOTES:

1. COLLAPSIBLE PLASTIC BARRICADES SHALL BE PLACED 25 FEET ON CENTER ACROSS FULL WIDTH OF PAVEMENT.
2. PROVIDE A FAA APPROVED (FAA AC 150/5370-2E), LIGHTED RUNWAY CLOSURE MARKER AS A TEMPORARY CLOSED MARKING TO WARN PILOTS OF CLOSED RUNWAYS AND TAXIWAYS.
3. LOCATION OF TEMPORARY CLOSED MARKINGS SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.

1 TEMPORARY MOVEMENT AREA AIRFIELD BARRICADE DETAIL
NOT TO SCALE



FURNISH AND MOUNT ONE FLASHING OR STEADY BURNING RED 12V HIGH INTENSITY LIGHT PER BARRICADE. TMC SAFETY PRODUCTS MODEL L204 OR APPROVED EQUAL.

BATTERY

TOP OF BUCKET

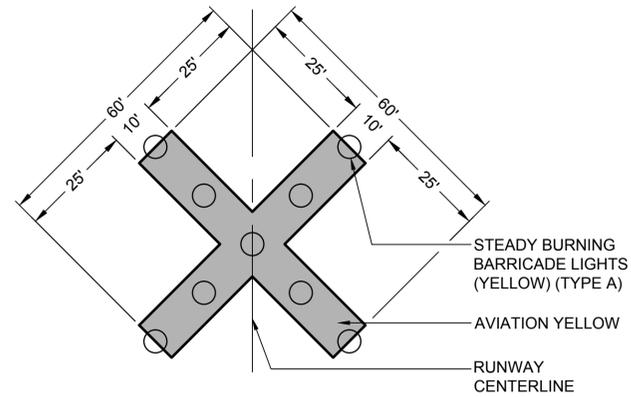
5 GALLON BUCKET FILLED WITH SAND OR OTHER MATERIAL AS APPROVED BY THE CONTRACTING OFFICER

REFLECTIVE MATERIAL, ORANGE FLUORESCENT AND WHITE FLUORESCENT STRIPES, AROUND CIRCUMFERENCE OF BUCKET. MATERIAL SHALL BE EITHER SCOTCHLITE OR REFLEXITE MATERIAL OR APPROVED EQUAL.

NOTES

1. FLASHING LIGHT SHALL BE CLAMPED TO BUCKET BARRICADE OR MOUNTED TO LID.
2. FOR AIRSIDE USE ONLY.
3. CONTRACTOR SHALL USE BUCKET BARRICADES TO DELINEATE HAUL ROADS ALONG ACTIVE AIRCRAFT MOVEMENT AREAS. MAXIMUM 100' SPACING, 50' ON CURVES.

2 BUCKET BARRICADE DETAIL
NOT TO SCALE



STEADY BURNING BARRICADE LIGHTS (YELLOW) (TYPE A)

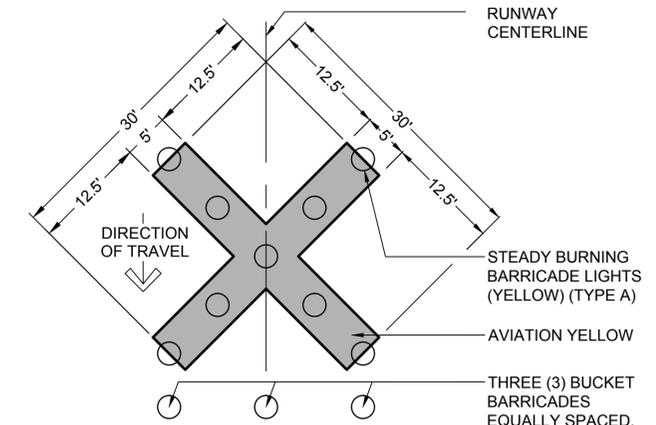
AVIATION YELLOW

RUNWAY CENTERLINE

NOTES

1. CLOSED MARKERS SHALL BE INSTALLED AS THE FIRST ITEM OF WORK.
2. THE CLOSED MARKERS MAY BE CONSTRUCTED OF 40 POUND ROOFING PAPER, SNOW FENCE, OR ANY OTHER MATERIAL APPROVED BY THE CONTRACTING OFFICER.
3. MAKE FREQUENT INSPECTIONS OF THE MARKINGS AND MAKE PROMPT REPAIRS AS NECESSARY.
4. SCHEDULE THE CLOSING OF THE RUNWAYS AT LEAST ONE WEEK IN ADVANCE WITH THE CONTRACTING OFFICER.
5. LIGHTS REQUIRED IF THE AREA BEING MARKED IS TO BE CLOSED AT NIGHT.

3 LIGHTED CLOSED RUNWAY MARKER DETAIL
NOT TO SCALE



RUNWAY CENTERLINE

STEADY BURNING BARRICADE LIGHTS (YELLOW) (TYPE A)

AVIATION YELLOW

THREE (3) BUCKET BARRICADES EQUALLY SPACED.

NOTES

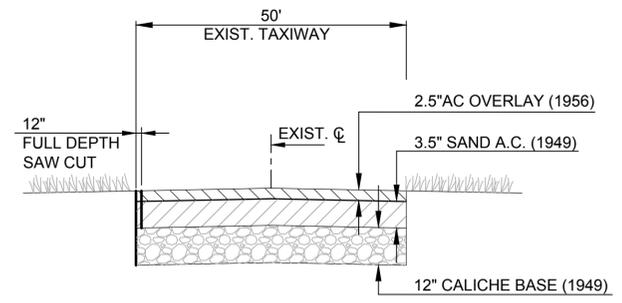
1. CLOSED MARKERS SHALL BE INSTALLED AS THE FIRST ITEM OF WORK.
2. THE CLOSED MARKERS MAY BE CONSTRUCTED OF 40 POUND ROOFING PAPER, SNOW FENCE, OR ANY OTHER MATERIAL APPROVED BY THE CONTRACTING OFFICER.
3. MAKE FREQUENT INSPECTIONS OF THE MARKINGS AND MAKE PROMPT REPAIRS AS NECESSARY.
4. SCHEDULE THE CLOSING OF THE RUNWAYS AT LEAST ONE WEEK IN ADVANCE WITH THE CONTRACTING OFFICER.
5. LIGHTS REQUIRED IF THE AREA BEING MARKED IS TO BE CLOSED AT NIGHT.

4 LIGHTED CLOSED TAXIWAY MARKER DETAIL
NOT TO SCALE

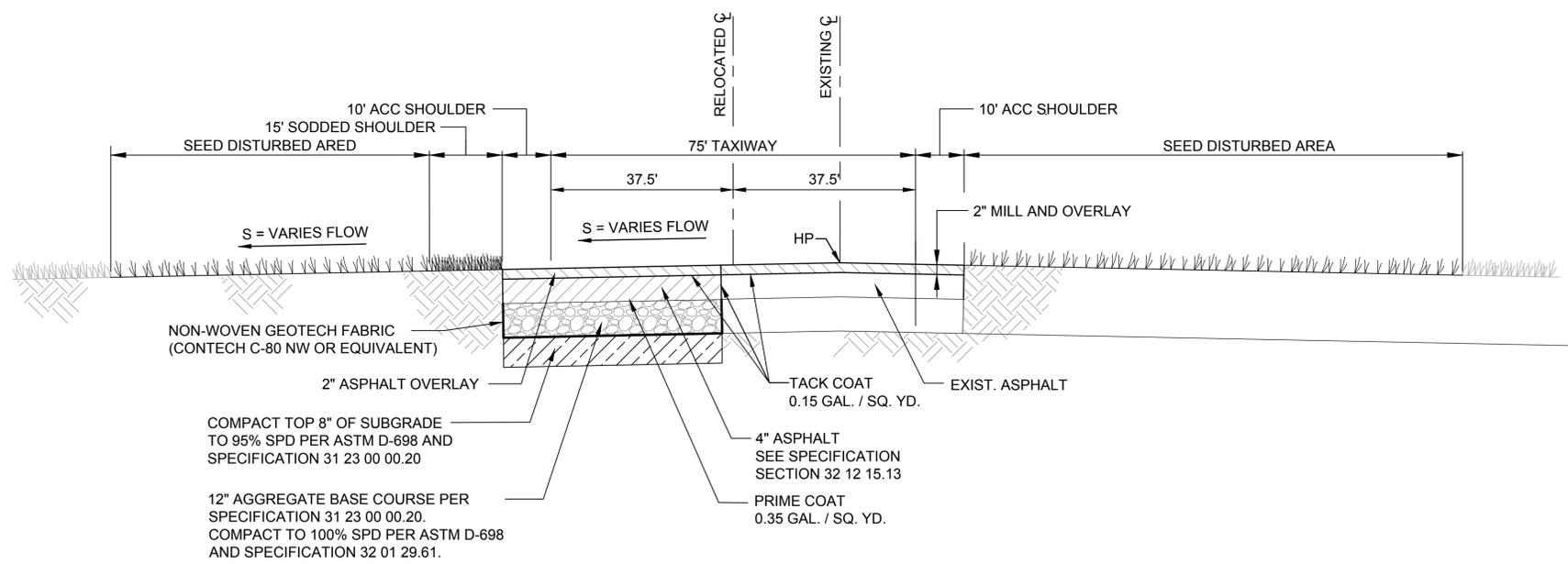
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ISSUED FOR BID	0	DATE	6 NOV 2015
DESCRIPTION			
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' GENERAL DETAILS			
SCALE: AS NOTED PROJECT NO.: CONSTR. CONTR. NO.:			
NAVFAC DRAWING NO. 15095457 SHEET 21 OF 41 C-501 <small>DRAWFORM REVISION: 5 APRIL 2012</small>			

FILE NAME: P:\FB\1650-TUL\CON\2051134800_AAS_CCA_Report\20_DSSN\40_GDW\134800-08b-C-502.dwg LAYOUT NAME: Layout PLOTTED: Tuesday, November 03, 2015 - 12:57pm USER: lsberrn



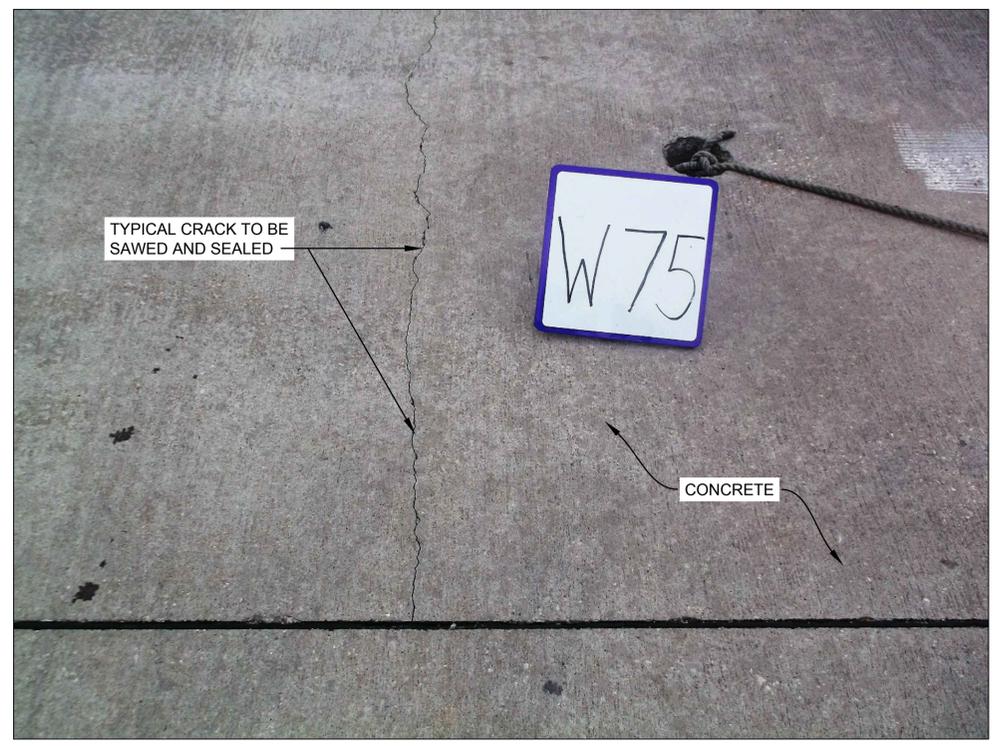
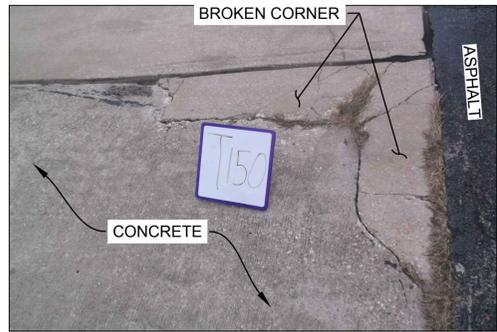
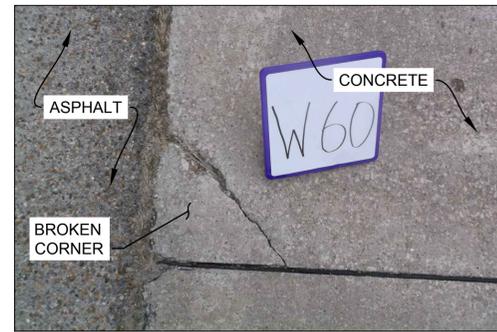
1 TAXIWAY 'Z' EXISTING PAVEMENT SECTION
 NOT TO SCALE
 EXISTING A.C. PAVEMENT SECTION WAS TAKEN FROM THE AIRFIELD PAVEMENT CONDITION SURVEY REPORT THAT WAS SUBMITTED IN APRIL 2013.



2 TAXIWAY 'Z' PROPOSED SECTION
 NOT TO SCALE

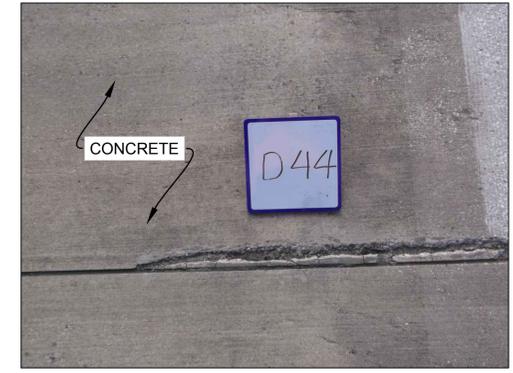
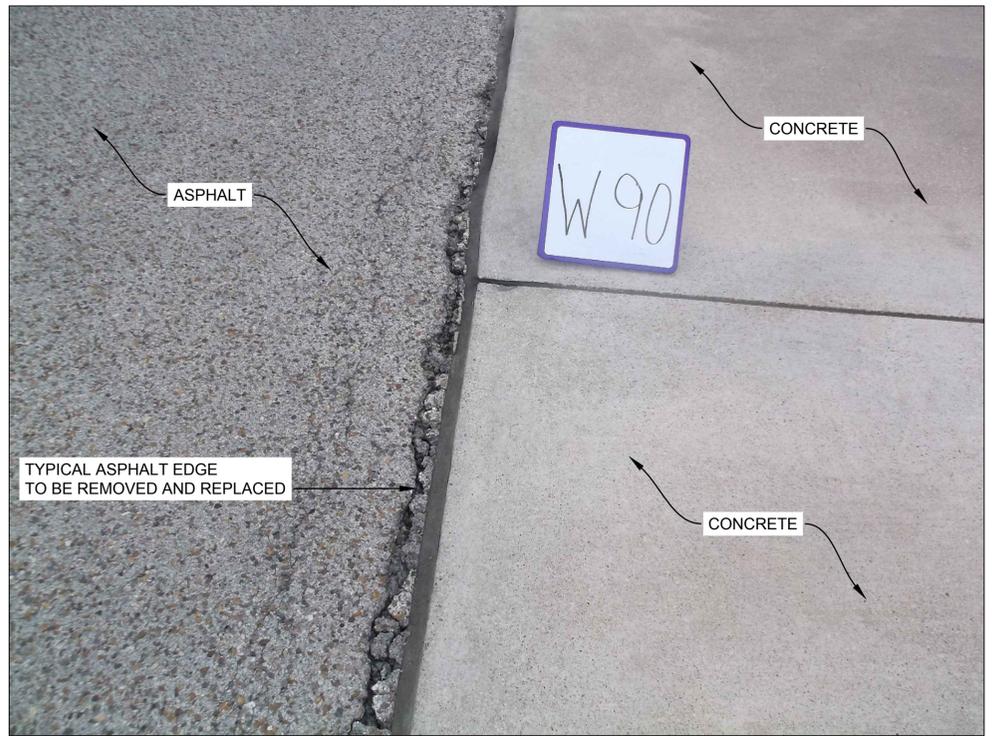
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DES HWM	DRW JGP
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BRANCH MANAGER	
CHIEF ENG / ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' TYPICAL SECTIONS	
SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095458
SHEET	22 OF 41
C-502	
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1 TYPICAL FULL DEPTH REPLACEMENT
NOT TO SCALE

2 TYPICAL CRACK REPAIR
NOT TO SCALE

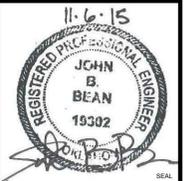


3 TYPICAL ASPHALT EDGE REPLACEMENT
NOT TO SCALE

4 TYPICAL SPALL REPAIR
NOT TO SCALE

5 TYPICAL SILVER SPALL
NOT TO SCALE

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PM / DM

BRANCH MANAGER

CHIEF ENG / ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING SOUTHEAST

NAVAL AIR STATION JACKSONVILLE

NAS CORPUS CHRISTI

NAS CORPUS CHRISTI AIRFIELD REPAIRS

TAXIWAY 'Z'

PAVEMENT REPAIR DETAILS

SCALE: AS NOTED

PROJECT NO.:

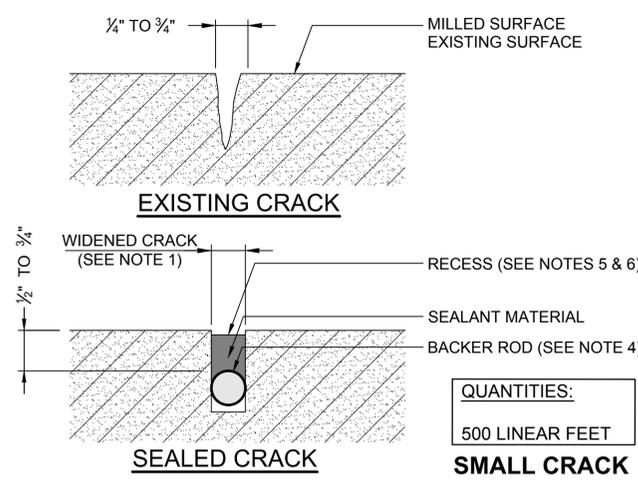
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 15095459

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C-503

DRAWFORM REVISION: 5 APRIL 2012



QUANTITIES:
500 LINEAR FEET
SMALL CRACK ASPHALT REPAIR DETAIL
1 NOT TO SCALE

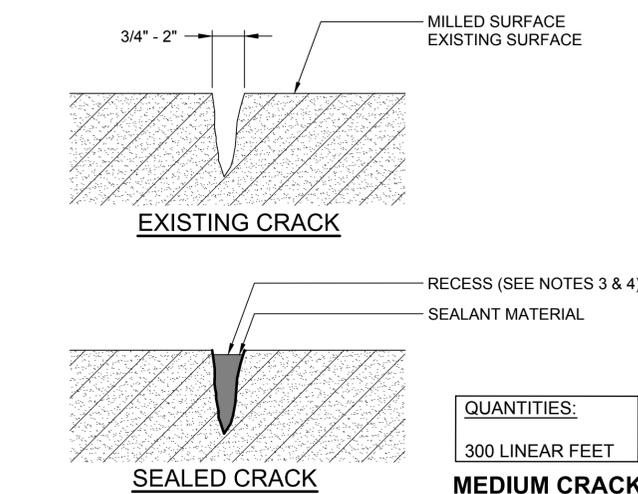
SMALL CRACKS (1/4" TO 3/4")

PREPARATION:

1. WIDEN TO A NOMINAL WIDTH OF 1/8" GREATER THAN THE EXISTING NOMINAL OR AVERAGE WIDTH. THE DEPTH OF THE ROUTED OR SAWN (CONTRACTOR OPTION) CRACK SHOULD BE APPROXIMATELY 3/4" AND PRODUCE VERTICAL FACES.
2. CLEAN CRACK USING A WATER BLASTER OR WIRE BRUSHES, AND THEN CLEAN WITH COMPRESSED AIR.
3. CLEAN AND INSPECT WIDENED CRACK TO ENSURE IT IS DRY AND FREE OF DEBRIS AND LOOSE MATERIAL.
4. INSTALL BACKER ROD IF CRACK HAS A DEPTH GREATER THAN 3/4" DEEP. IF THE DEPTH OF CRACK IS NOT DEEP ENOUGH TO ACCOMMODATE THE BACKER ROD AND MAINTAIN A SEALANT DEPTH OF 1/2" TO 3/4", THEN THE CRACK CAN BE ROUTED OR THE BACKER ROD MATERIAL OMITTED.

SEALING:

5. FOR AREAS WHICH WILL RECEIVE AN OVERLAY - FILL CRACKS WITH SEALANT SUCH THAT THE FINISHED PRODUCT IS RECESSED A MINIMUM OF 1/4" BELOW THE EXISTING MATERIAL'S SURFACE TO PREVENT THE NEW MATERIAL FROM BLEEDING THROUGH THE SUBSEQUENT OVERLAY.
6. FOR AREAS WHICH WILL NOT RECEIVE AN OVERLAY - FILL CRACKS WITH SEALANT SUCH THAT THE FINISHED PRODUCT IS AT OR SLIGHTLY BELOW (EQUAL TO OR LESS THAN 1/8") THE EXISTING MATERIAL'S SURFACE.
7. USE A SQUEEGEE TO REMOVE ANY EXCESS SEALANT FROM THE PAVEMENT.



QUANTITIES:
300 LINEAR FEET
MEDIUM CRACK ASPHALT REPAIR DETAIL
2 NOT TO SCALE

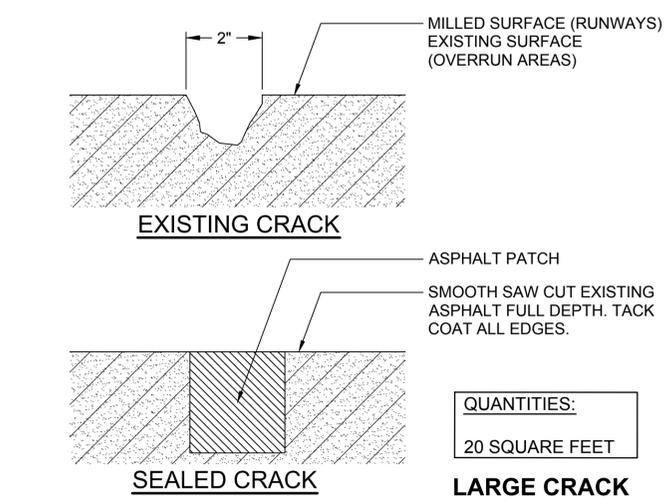
MEDIUM CRACKS (3/4" TO 2")

PREPARATION:

1. CLEAN CRACK USING A WATER BLASTER OR WIRE BRUSHES, AND THEN CLEAN WITH COMPRESSED AIR.
2. CLEAN AND INSPECT CRACK TO ENSURE IT IS DRY AND FREE OF DEBRIS AND LOOSE MATERIAL.

SEALING:

3. FOR AREAS WHICH WILL RECEIVE AN OVERLAY - FILL CRACKS WITH A SEALANT SUCH THAT THE FINISHED PRODUCT IS RECESSED A MINIMUM OF 1/4" BELOW THE EXISTING MATERIAL'S SURFACE TO PREVENT THE NEW MATERIAL FROM BLEEDING THROUGH THE SUBSEQUENT OVERLAY.
4. FOR AREAS WHICH WILL NOT RECEIVE AN OVERLAY - FILL CRACKS WITH A SEALANT SUCH THAT THE FINISHED PRODUCT IS AT OR SLIGHTLY BELOW (EQUAL TO OR LESS THAN 1/8") THE EXISTING MATERIAL'S SURFACE.
5. USE A SQUEEGEE TO REMOVE ANY EXCESS SEALANT FROM THE PAVEMENT.



QUANTITIES:
20 SQUARE FEET
LARGE CRACK ASPHALT REPAIR DETAIL
3 NOT TO SCALE

LARGE CRACKS (2"+)

PREPARATION:

1. TREAT AS A POTHOLE REPAIR.
2. USING A SAW, CUT AWAY DAMAGED PAVEMENT TO PROVIDE VERTICAL FACES.
3. CLEAN WITH COMPRESSED AIR.
4. INSPECT FACES TO ENSURE THEY ARE DRY AND CLEAN.

FILLING:

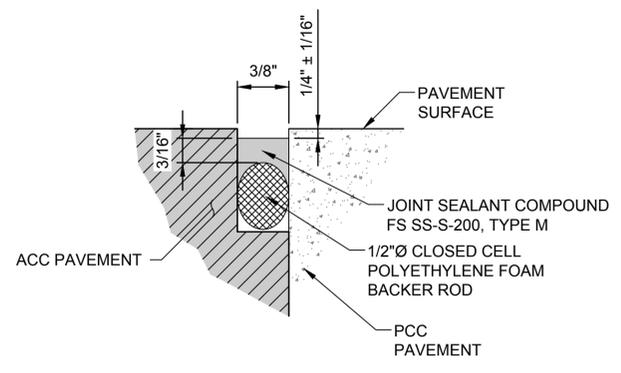
5. TACK COAT ADJOINING FACES.
6. FILL WITH EITHER A SAND ASPHALT OR A FINE-GRADED ASPHALT MIX AND COMPACT USING PROCEDURES AND EQUIPMENT ACCEPTABLE FOR POTHOLE REPAIR.

FILE NAME: P:\FBV\1650-TUL\COM\2051134800\NAS_CCA_Repairs\20_DSCSN\40_CAD\C\134800-08b-C-504.dwg LAYOUT NAME: Layout PLOTTED: Tuesday, November 03, 2015 - 12:58pm USER: lsbarn

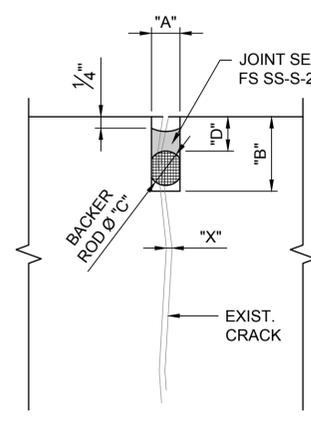
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ACTIVITY	
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PM / DM	
BRANCH MANAGER	
CHIEF ENG / ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' CRACK REPAIR DETAILS	
SCALE: AS NOTED	
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO. 15095460	
SHEET 24 OF 41	
C-504 <small>DRAWFORM REVISION: 5 APRIL 2012</small>	

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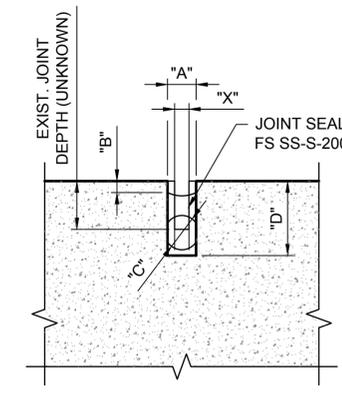
3 JOINT SEALANT - PCC TO ACC JOINT
NOT TO SCALE



4 TYPICAL DETAIL OF RANDOM CRACK REPAIR
NOT TO SCALE

NOTE:
1. MIN. JOINT WIDTH, "A", SHALL BE CRACK WIDTH "X" + 3/8"

SEAL JOINT REQUIREMENTS TABLE			
JOINT WIDTH, "A" (INCHES)	JOINT DEPTH, "B" (INCHES)	BACKER ROD DIA., "C" (INCHES)	BACKER ROD PLACEMENT "D" (INCHES)
1/2	1 3/8	5/8	3/4
5/8	1 5/8	3/4	7/8
3/4	2	1	7/8
7/8	2	1	1
1	2 1/4	1 1/4	1
>1	2 1/4+	1 1/4+	1+

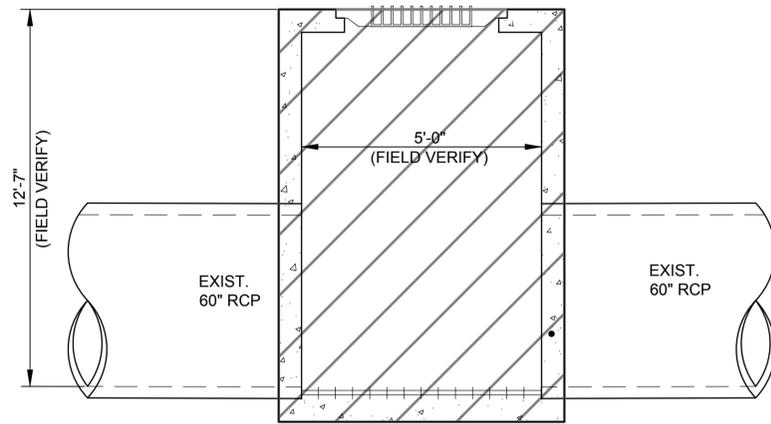


5 JOINT RESEALING
NOT TO SCALE

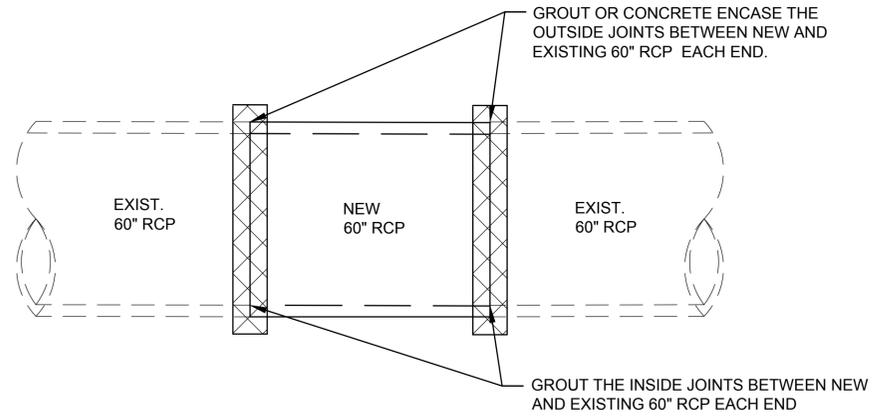
NOTE:
1. SMOOTH DOWEL AND DEFORMED BAR SIZE AND SPACING FOR EACH JOINT TYPE BASED ON UFC 3-260-02, TABLE 12-8, DATED JUNE 30, 2001.
2. DOWELS AND TIE BARS PER UFGS 32 13 11.

REFACED JOINT DIMENSIONS (INCHES)				
REFACED JOINT WIDTH, "A"	3/8	1/2	3/4	1
RECESS BELOW SURFACE, "B"	1/4	1/4	1/4	1/2
THICKNESS OF SEALANT	1/4	1/4	3/8	1/2
MOV	1/2	5/8	7/8	1 1/4
TOTAL DEPTH OF JOINT, "D"	1	1 1/8	1 1/2	2 1/4

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BRANCH MANAGER	
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FIRE PROTECTION	
DEPARTMENT OF THE NAVY	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING SOUTHEAST	
NAVAL AIR STATION JACKSONVILLE	
NAS CORPUS CHRISTI	
NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z'	
CONCRETE PAVEMENT REPAIR DETAILS	
SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095461
SHEET	25 OF 41
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1 EXIST. STRUCTURE TO BE REMOVED
NOT TO SCALE



2 NEW 60" RCP DETAIL
NOT TO SCALE

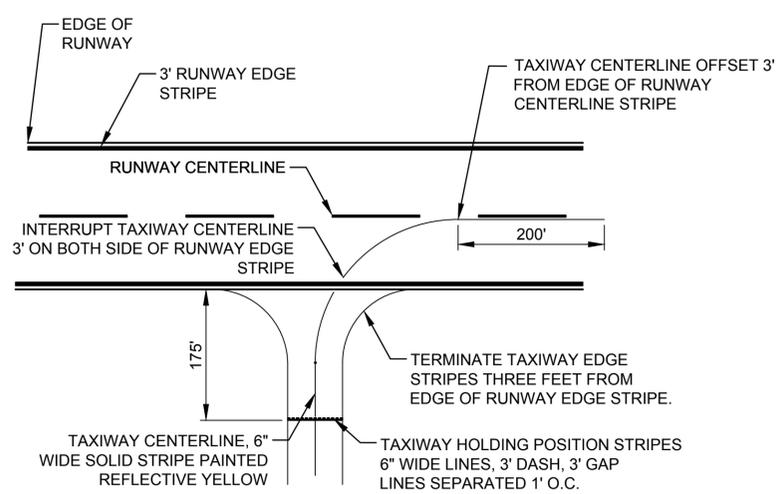
NOTES:

1. REMOVE EXISTING DRAINAGE STRUCTURE COMPLETELY.
2. FIELD VERIFY THE DISTANCE BETWEEN THE ENDS THE EXISTING 60" RCP.
3. INSTALL A NEW SECTION OF 60" RCP IN BETWEEN THE 60" RCP'S. THE LENGTH SHALL BE FIELD VERIFIED.
4. THE INVERT ELEVATION OF THE NEW PIPE SHALL MATCH THE INVERT ELEVATIONS OF THE EXISTING 60" RCP ON BOTH ENDS.
5. GROUT THE JOINTS, ON THE INSIDE OF THE PIPE, BETWEEN THE NEW AND EXISTING 60" PIPES WITH A CONCRETE EPOXY GROUT.
6. GROUT OR CONCRETE ENCASE AROUND THE OUTSIDE OF THE JOINTS BETWEEN THE NEW AND EXISTING 60" RCP'S.
7. BACKFILL ALL VOIDS BETWEEN EXISTING UNDISTURBED GROUND AND THE BOTTOM OF THE NEW 60" RCP WITH FLOWABLE FILL.
8. COMPACT ALL BACKFILL TO A MINIMUM OF 95% PER ASTM D 698.
9. BACKFILL SHALL BE INSTALLED PER SPECIFICATION 31 23 00.00 20.

FILE NAME: P:\FB\1650-TUL\CON\2051134800-IMS_CCA_Repairs\20_DESIGN\40_GVD\134800-08b-C-506.dwg LAYOUT NAME: Layout PLOTTED: Tuesday, November 03, 2015 - 12:58pm USER: lsberrn

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BRANCH MANAGER	
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FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' INLET DETAILS	
SCALE:	AS NOTED
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CONSTR. CONTR. NO.	
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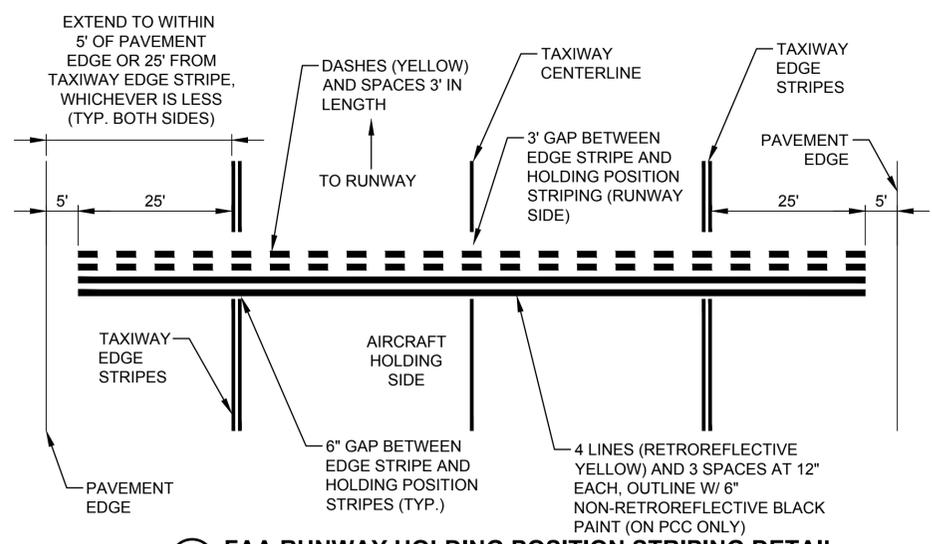
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1 TAXIWAY STRIPING
NOT TO SCALE

TAXIWAY STRIPING NOTES:

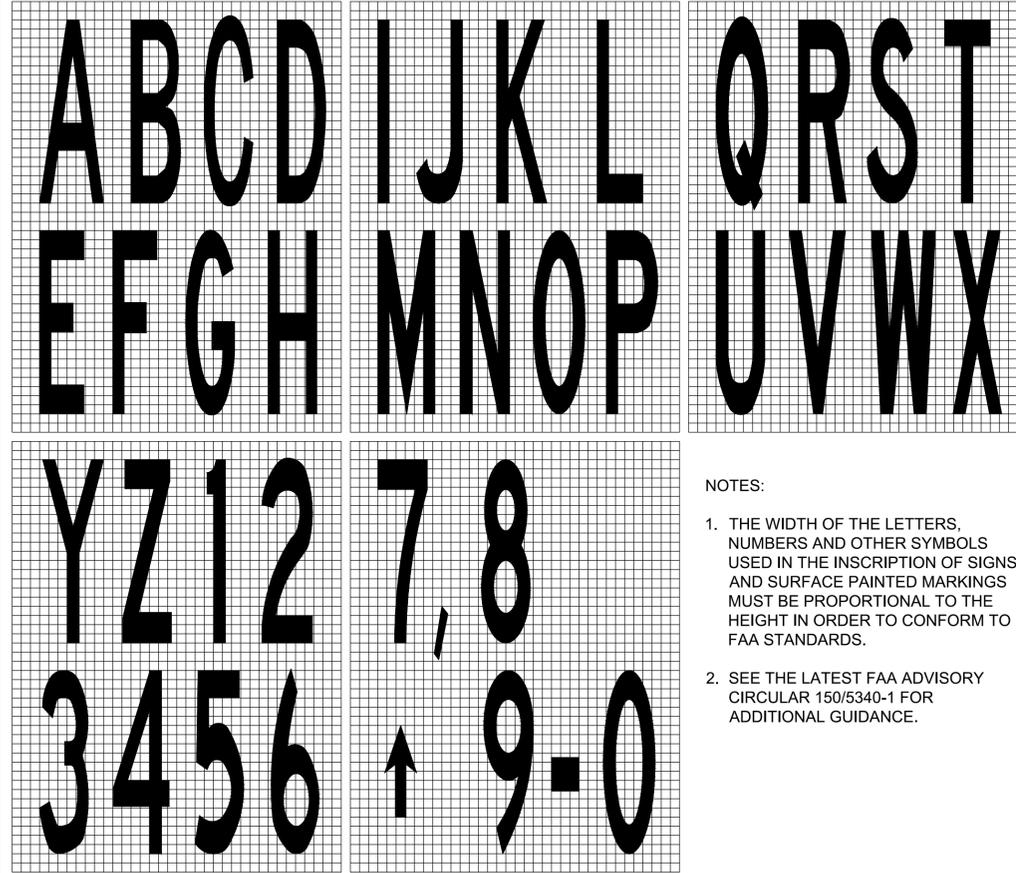
1. TAXIWAY EDGE STRIPE SHALL CONSIST OF TWO 6 INCH WIDE STRIPES PAINTED RETROREFLECTIVE YELLOW. THE STRIPES SHALL BE SPACED SIX INCHES APART AND LOCATED ON THE EDGE OF THE TAXIWAY OR TAXILANE PAVEMENT EDGE.
2. TAXIWAY CENTERLINES SHALL BE OUTLINED IN BLACK PAINT PER DETAIL 1/C-508 IF PLACED ON LIGHT COLORED CONCRETE.



2 FAA RUNWAY HOLDING POSITION STRIPING DETAIL
NOT TO SCALE

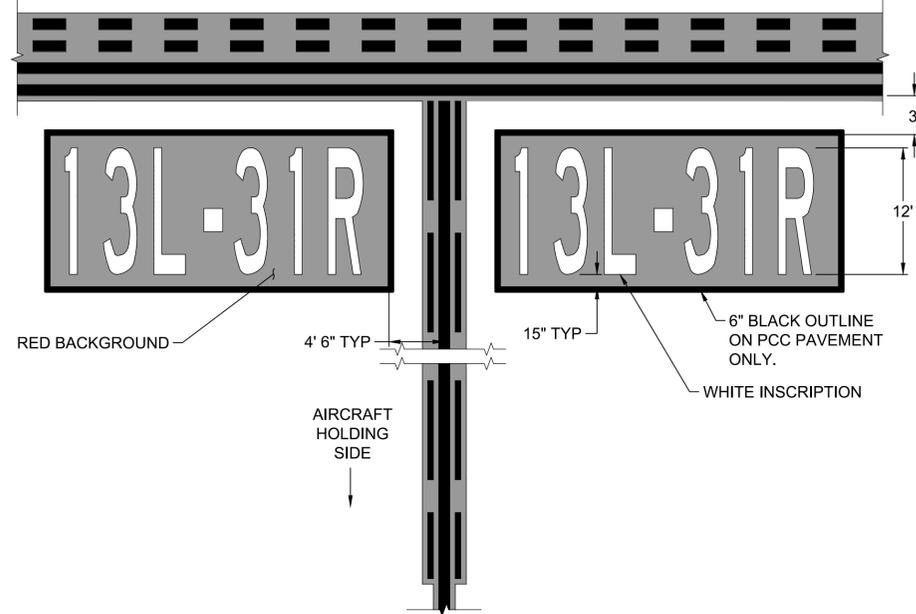
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FIRE PROTECTION	
DEPARTMENT OF THE NAVY	
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NAVAL FACILITIES ENGINEERING SOUTHEAST	
NAVAL AIR STATION JACKSONVILLE	
CIBL CORE	
NAS CORPUS CHRISTI	
NAS CORPUS CHRISTI AIRFIELD REPAIRS	
TAXIWAY 'Z'	
STRIPING DETAILS SHEET 1 OF 3	
SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
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SHEET	27 OF 41
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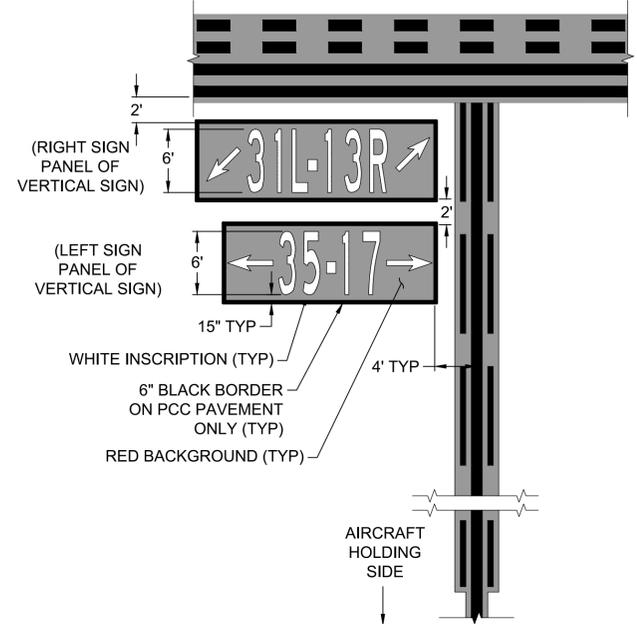
1 SURFACE PAINTED MARKINGS DETAIL
SCALE: NTS

- NOTES:
1. THE WIDTH OF THE LETTERS, NUMBERS AND OTHER SYMBOLS USED IN THE INSCRIPTION OF SIGNS AND SURFACE PAINTED MARKINGS MUST BE PROPORTIONAL TO THE HEIGHT IN ORDER TO CONFORM TO FAA STANDARDS.
 2. SEE THE LATEST FAA ADVISORY CIRCULAR 150/5340-1 FOR ADDITIONAL GUIDANCE.



2 SURFACE PAINTED HOLDING POSITION SIGNS
SCALE: NTS

- NOTES:
1. THIS DETAIL APPLIES ONLY TO SITUATIONS WHERE THE TAXIWAY CENTERLINE AND RUNWAY HOLDING POSITION STRIPINGS ARE PERPENDICULAR.
 2. SEE "SURFACE PAINTED MARKINGS DETAIL" FOR INSCRIPTION PROPORTIONAL SIZING.
 3. THE SURFACE PAINTED HOLDING POSITION SIGN SHALL BE AT LEAST 2 FEET FROM THE TAXIWAY EDGE STRIPING OR TAXIWAY EDGE IF NOT MARKED.
 4. STENCIL BRACES MUST BE FILLED IN. ALL INDIVIDUAL CHARACTERS MUST BE PAINTED CONTIGUOUS.



3 SURFACE PAINTED HOLDING POSITION SIGNS - STACKED
SCALE: NTS

- NOTES:
1. THIS DETAIL APPLIES ONLY TO SITUATIONS WHERE THE TAXIWAY CENTERLINE AND RUNWAY HOLDING POSITION STRIPINGS ARE PERPENDICULAR.
 2. SEE "SURFACE PAINTED MARKINGS DETAIL" FOR INSCRIPTION PROPORTIONAL SIZING.
 3. THE SURFACE PAINTED HOLDING POSITION SIGN SHALL BE AT LEAST 2 FEET FROM THE TAXIWAY EDGE STRIPING OR TAXIWAY EDGE IF NOT MARKED.
 4. STENCIL BRACES MUST BE FILLED IN. ALL INDIVIDUAL CHARACTERS MUST BE PAINTED CONTIGUOUS.

DATE	6 NOV 2015
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DESCRIPTION	

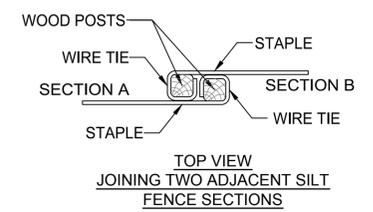
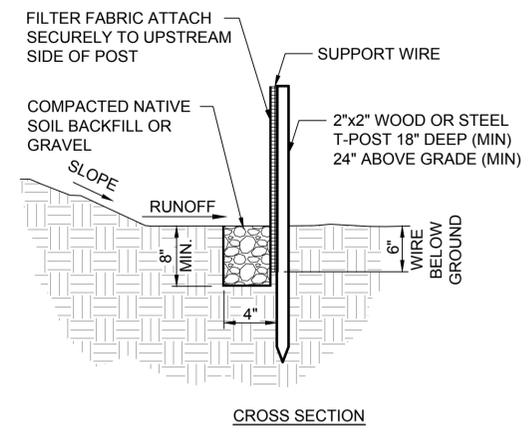
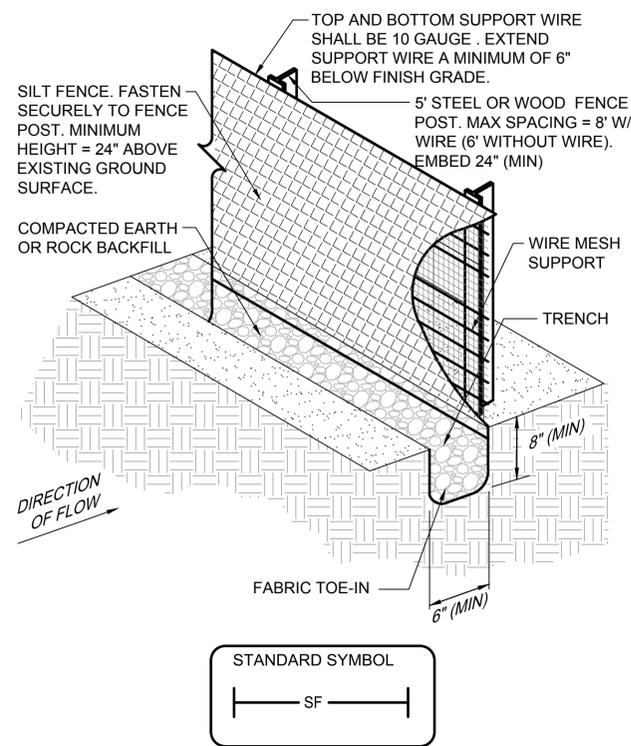


APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES HWM	DRW JGP
CHK SMS	
PM / CM	
BRANCH MANAGER	
CHIEF ENG / ARCH	
FIRE PROTECTION	

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
TAXIWAY 'Z'

SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095465
SHEET	29 OF 41

FILE NAME: P:\FB\1650-TUL\CON\2051134800_AKS_OCA_Repairs\20_DCSN\40_CAD\C\134800-08b-C-701.dwg LAYOUT NAME: Layout PLOTTED: Tuesday, November 03, 2015 - 12:58pm USER: labern



SEDIMENT FENCE (SILT FENCE) INSTALLATION DETAIL

1 NOT TO SCALE

BEST MANAGEMENT PRACTICES (BMP'S)

POLLUTION THROUGH STORM RUNOFF IS INTENSIFIED AT CONSTRUCTION SITES DUE TO THE REMOVAL OF THE NATURAL GROUND COVER OF THE SITE AS WELL AS THE INTRODUCTION OF HAZARDOUS CHEMICALS AND WASTES TO THE AREA. MEASURES ARE REQUIRED BOTH DURING CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION TO STABILIZE THE SITE. STABILIZATION OF THE SITE DURING CONSTRUCTION ACTIVITIES CONSISTS OF THE INSTALLATION OF TEMPORARY OR PERMANENT MEASURES TO PREVENT EROSION OR TO INTERCEPT SEDIMENT PRIOR TO IT LEAVING THE SITE. THIS CAN BE ACCOMPLISHED THROUGH THE USE OF GROUND COVER MULCHING, PAVING, SILT FENCES, AND SEDIMENT BASINS ALONG WITH CONSTRUCTION METHODS TO REDUCE THE DISTURBED AREAS OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS

- FENCE POSTS SHALL BE A MINIMUM OF 5'-0" LONG DRIVEN 24" MINIMUM INTO THE GROUND. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
- GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES AT TOP AND MID-SECTION AND SHALL MEET THE DEFINED FILTER FABRIC SPECIFICATIONS.
- WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND WIRE TIED TO PREVENT SEDIMENT BYPASS.
- SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

MANNER OF CONSTRUCTION

- PLACE THE BOTTOM 1FT OF FABRIC IN 8-INCH DEEP TRENCH LAPPING TOWARD THE UPSLOPE SIDE.

MANNER OF CONSTRUCTION (CONT.)

- BACKFILL WITH COMPACTED EARTH OR GRAVEL AS SHOWN. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SEDIMENT STORAGE AREA ON UP SLOPE SIDE OF FENCE WHERE SEDIMENTATION IS EXPECTED.
- PROVIDE GOOD ACCESS TO DEPOSITION AREAS FOR CLEAN-OUT AND MAINTENANCE.
- DO NOT INSTALL SEDIMENT FENCE ACROSS INTERMITTENT OR PERMANENT STREAMS, CHANNELS, OR ANY LOCATION WHERE CONCENTRATED FLOW IS ANTICIPATED.

INSPECTIONS

INSPECTIONS SHALL BE PERFORMED EVERY SEVEN (7) DAYS OR AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER

MAJOR ITEMS TO BE OBSERVED DURING INSPECTIONS INCLUDE:

- LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS
- LOCATION OF BEST MANAGEMENT PRACTICES (BMP'S) THAT ARE IN NEED OF MAINTENANCE
- LOCATION OF BMP'S WHICH ARE NOT PERFORMING, FAILED TO OPERATE, OR WERE INADEQUATE
- LOCATIONS WHERE ADDITIONAL BMP'S ARE NEEDED.

FILTER FABRIC SPECIFICATIONS

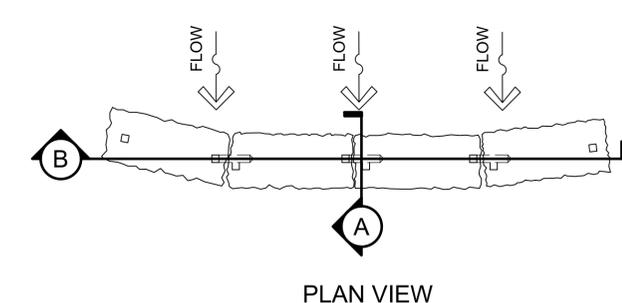
SILT FENCE SHALL BE CONSTRUCTED OF A WOVEN, POLYPROPYLENE, POLYESTER OR POLYIMIDE MATERIAL THAT SHALL BE RESISTANT TO ULTRA-VIOLET DEGRADATION AND ROT. THE EDGES OF THE WOVEN FABRIC SHALL BE SEALED OR SELVAGED TO PREVENT RAVELING. THE FABRIC SHALL EXHIBIT THE FOLLOWING PHYSICAL PROPERTIES WHEN SAMPLED AND TESTED USING THE SPECIFIED METHODS.

PROPERTY	TEST METHODS	VALUES
GRAB TENSILE	ASTM D-4632	100 LB. (MIN.)
ELONGATION @ YIELD	ASTM D-4632	10-40% (MAX.)
TRAPEZOID TEAR	ASTM D-4533	50 LB. (MIN.)
UV RESISTANCE	ASTM D-4355	80% (MIN.)
APPARENT OPENING SIZE	ASTM D-4751	20-50 US SIEVE
PERMITIVITY 1/SEC	ASTM D-4491	0.1 (MIN.)

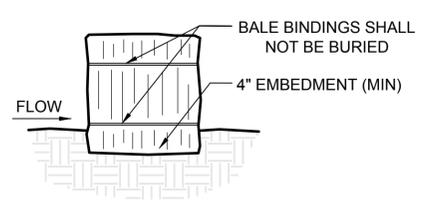
PREFABRICATED FENCE SYSTEMS MAY BE USED PROVIDED THEY MEET ALL THE MATERIAL REQUIREMENTS.

EROSION CONTROL MEASURES SHALL REMAIN UNTIL A STAND OF VEGETATIVE GROUND COVER OF 70% OR GREATER COVERAGE IS ESTABLISHED.

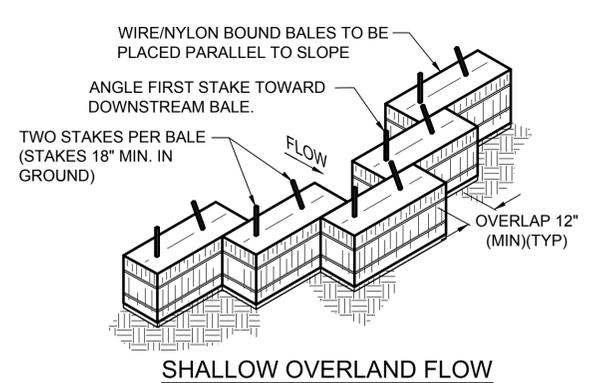
DATE	6 NOV 2015
ISSUED FOR BID	0
DESCRIPTION	
<p>APPROVED</p> <p>FOR COMMANDER NAVFAC</p> <p>ACTIVITY</p> <p>SATISFACTORY TO DATE</p> <p>DES: HWM DRW: JGP CHK: SMS</p> <p>PM / DM</p> <p>BRANCH MANAGER</p> <p>CHIEF ENG / ARCH</p> <p>FIRE PROTECTION</p>	
<p>DEPARTMENT OF THE NAVY</p> <p>NAVAL FACILITIES ENGINEERING COMMAND</p> <p>NAVY AIR STATION JACKSONVILLE</p> <p>CIBL CORE</p> <p>NAS CORPUS CHRISTI</p> <p>NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z'</p> <p>EROSION CONTROL DETAILS SHEET 1 OF 2</p>	
SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095466
SHEET:	30 OF 41
<p>C-701</p> <p>DRAWFORM REVISION: 5 APRIL 2012</p>	



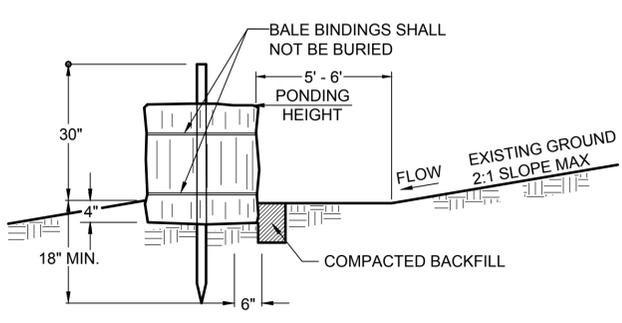
PLAN VIEW



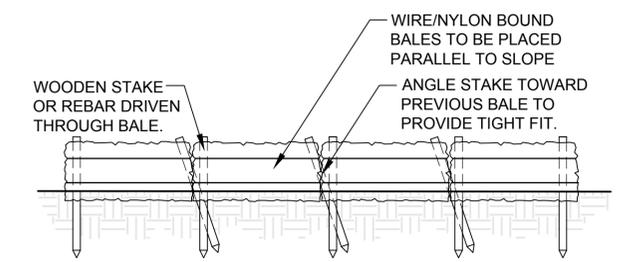
BEDDING DETAIL



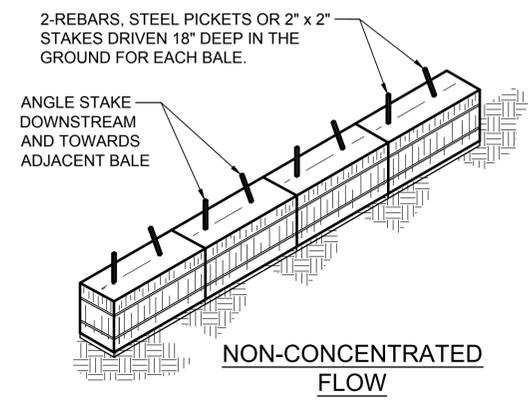
SHALLOW OVERLAND FLOW



SECTION A



SECTION B



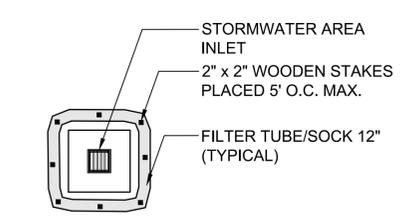
NON-CONCENTRATED FLOW

STRAW BALE DIKE INSTALLATION NOTES:

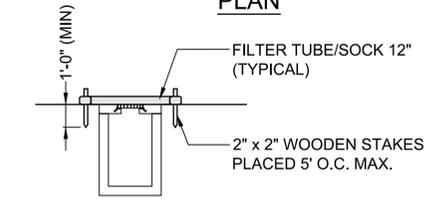
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED BY THE CONTRACTOR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- STRAW BALE DIKE MUST BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF EACH BALE DIKE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN DIKE ALIGNMENT.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE BALE.
- ANY SECTION OF THE BALE DIKE WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED.

STRAW BALE BARRIER INSTALLATION DETAIL

1 NOT TO SCALE



PLAN



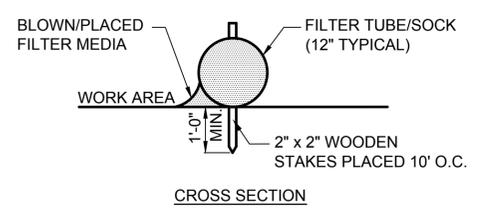
SECTION

NOTES:

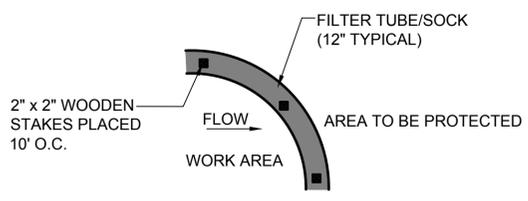
- ALL MATERIAL TO MEET FILTER TUBE/SOCK MANUFACTURERS SPECIFICATIONS.
- CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
- CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
- MAY TAKE THE PLACE OF STANDARD INLET PROTECTION AT THE DISCRETION OF THE CONTRACTOR WITH THE APPROVAL FROM THE ENGINEER.

FILTER TUBE/SOCK RUNOFF INLET PROTECTION DETAIL

2 NOT TO SCALE



CROSS SECTION



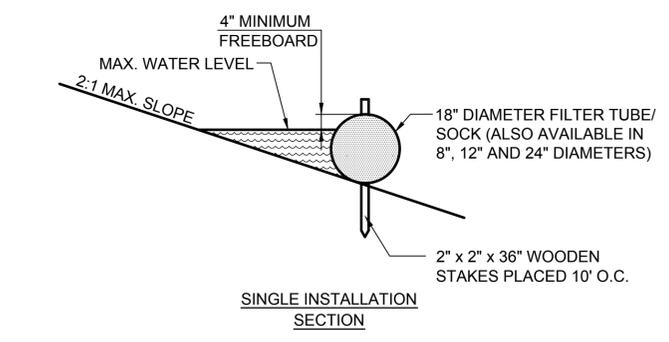
PLAN VIEW

NOTES:

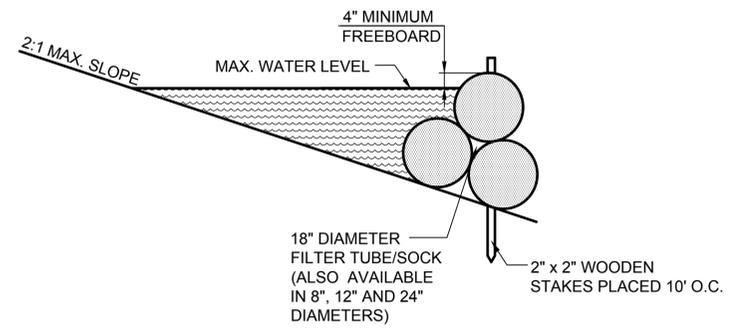
- ALL MATERIAL TO MEET FILTER TUBE/SOCK MANUFACTURERS SPECIFICATIONS.
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- MAY TAKE THE PLACE OF SILT FENCE AT THE DISCRETION OF THE CONTRACTOR WITH THE APPROVAL FROM THE ENGINEER.
- WHERE FILTER TUBES/SOCKS ARE LOCATED ON PAVED AREAS, SECURE FILTER TUBE/SOCK PLACEMENT WITH SAND BAGS.

FILTER TUBE/SOCK SEDIMENT CONTROL INSTALLATION DETAIL

3 NOT TO SCALE



SINGLE INSTALLATION SECTION



PYRAMID INSTALLATION SECTION

FILTER TUBE/SOCK CHECK DAM SECTION DETAIL

4 NOT TO SCALE

DATE	6 NOV 2015
ISSUED FOR BID	0
DESCRIPTION	
<p>APPROVED FOR COMMANDER NAVFAC</p>	
<p>SATISFACTORY TO DATE</p>	
DES	HWM
DRW	JGP
CHK	SMS
PM / CM	
BRANCH MANAGER	
CHIEF ENG / ARCH	
FIRE PROTECTION	
<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIBL CODE NAS CORPUS CHRISTI CORPUS CHRISTI, TEXAS NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' EROSION CONTROL DETAILS SHEET 2 OF 2</p>	
SCALE	AS NOTED
PROJECT NO.	15095467
CONSTR. CONTR. NO.	
NAVAC DRAWING NO.	15095467
SHEET	31 OF 41
<p>C-702</p>	
<p>DRAWFORM REVISION: 5 APRIL 2012</p>	

FILE NAME: P:\FBV\1650-TUL\COM\2051134800_MAS_OCA_Repairs\20_DSSCN\40_CAD\C\134800-08b-C-702.dwg LAYOUT NAME: Layout PLOTTED: Tuesday, November 03, 2015 - 12:58pm USER: lsberrn

FILE NAME: N:\14072\04 CAD\08b-Taxiway 2\1302445-E-ES101.dwg LAYOUT NAME: ES101 PLOTTED: Tuesday, November 10, 2015 - 12:27pm USER: nmm

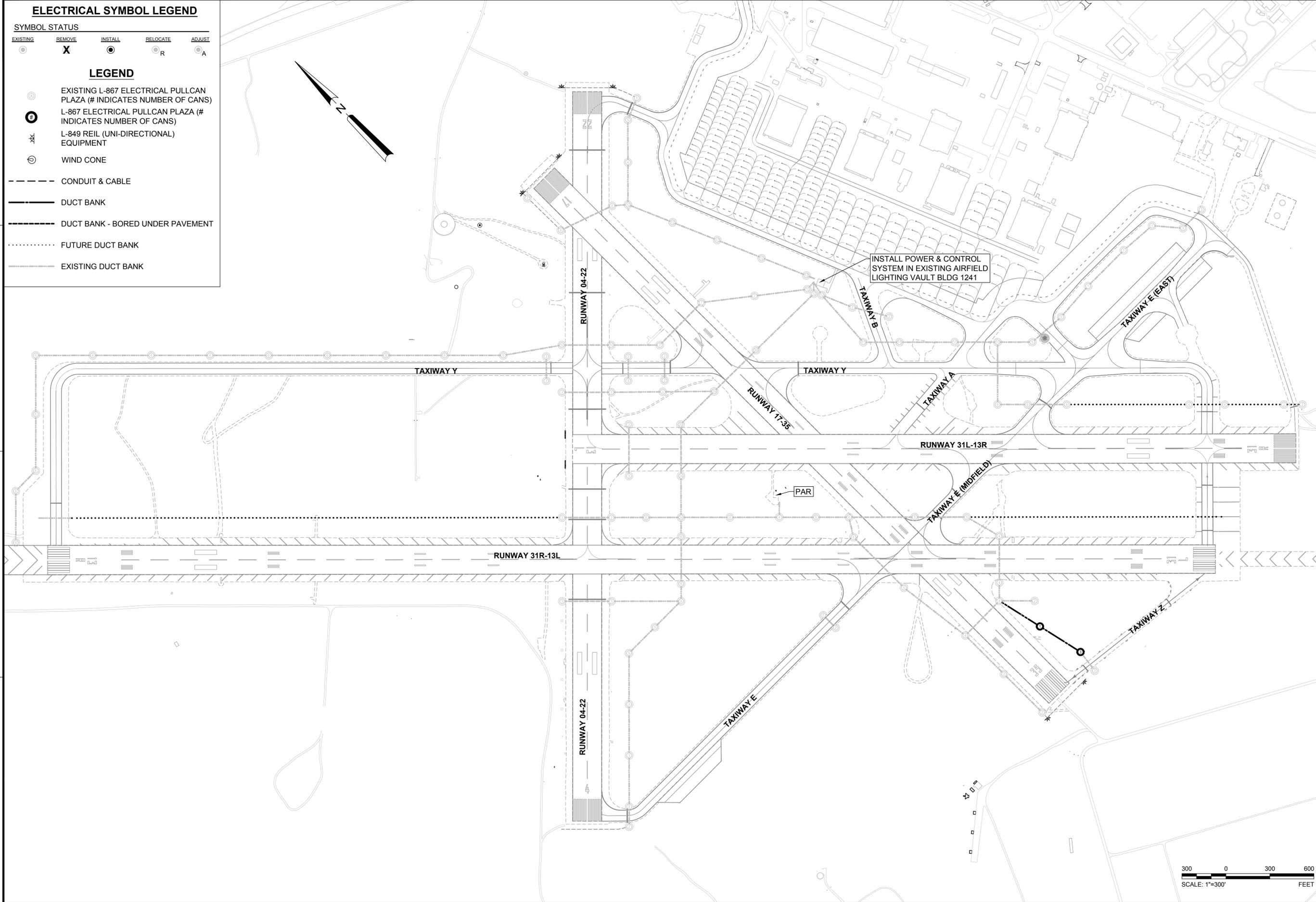
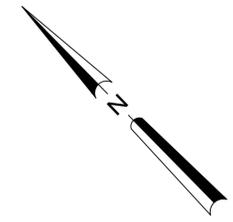
ELECTRICAL SYMBOL LEGEND

SYMBOL STATUS

EXISTING	REMOVE	INSTALL	RELOCATE	ADJUST
○	X	●	○ _R	○ _A

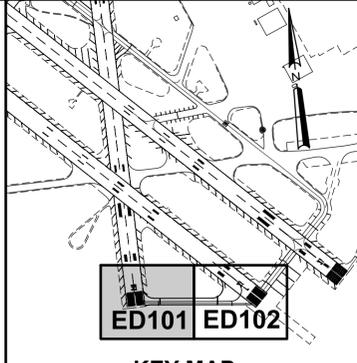
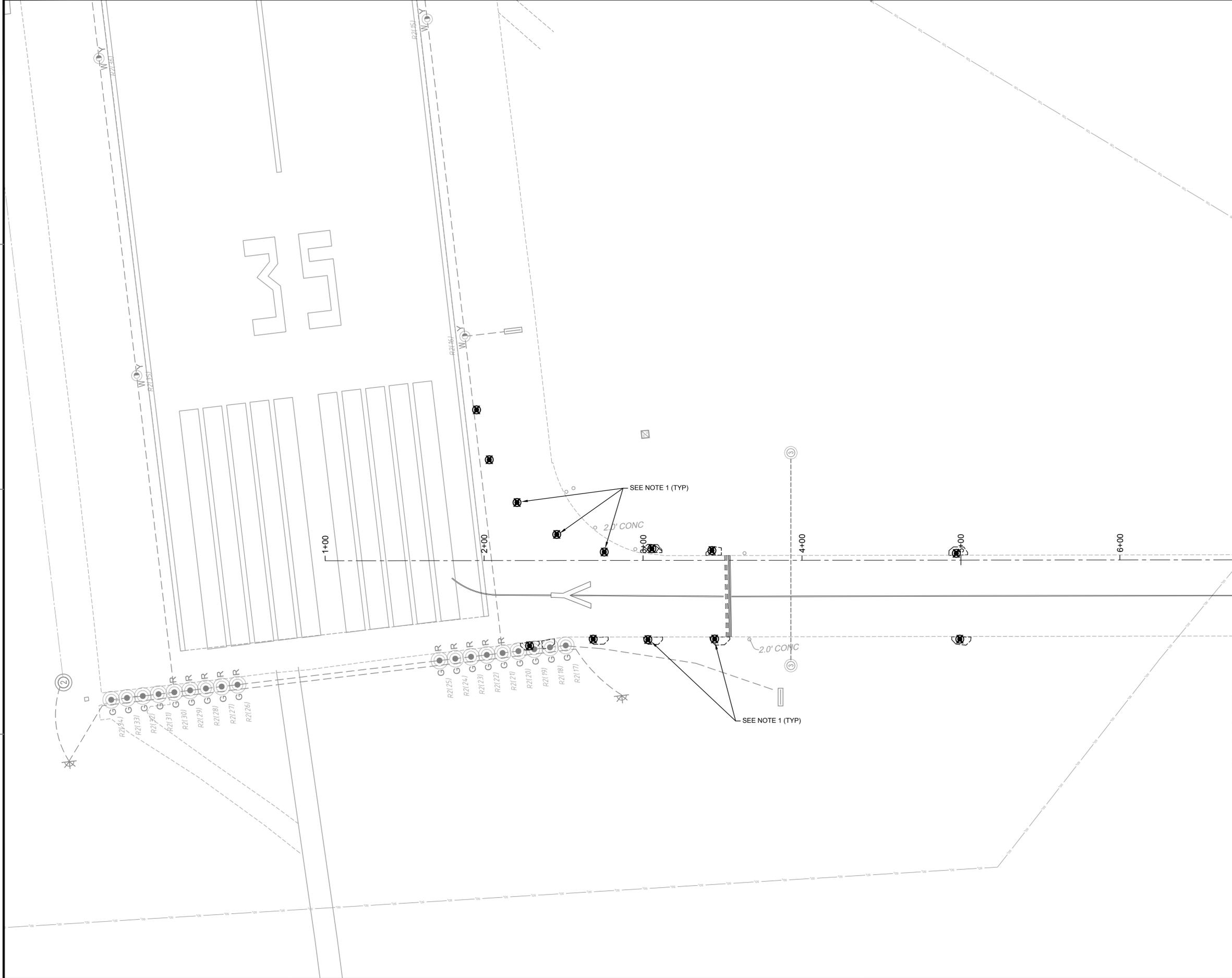
LEGEND

- EXISTING L-867 ELECTRICAL PULLCAN PLAZA (# INDICATES NUMBER OF CANS)
- L-867 ELECTRICAL PULLCAN PLAZA (# INDICATES NUMBER OF CANS)
- ⊗ L-849 REIL (UNI-DIRECTIONAL) EQUIPMENT
- ⊙ WIND CONE
- - - CONDUIT & CABLE
- DUCT BANK
- · - · - DUCT BANK - BORED UNDER PAVEMENT
- · · · · FUTURE DUCT BANK
- - - - - EXISTING DUCT BANK



DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES EFC DRW MRM CHK JMM PROJECT MANAGER IPT TECH BRANCH HEAD CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIBL CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' HOMERUN PLAN	
SCALE:	1" = 300'
PROJECT NO.:	15095468
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095468
SHEET:	32 of 41
ES101 <small>DRAWFORM REVISION: 5 APRIL 2012</small>	

FILE NAME: N:\14072\04 CAD\08b-Taxiway 2\1302445-E-ED101.dwg LAYOUT NAME: ED101 PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: mm



ELECTRICAL SYMBOL LEGEND

SYMBOL STATUS			
EXISTING	REMOVE	INSTALL	REPLACE
○	⊗	●	⊙ _R
SYMBOL	DESCRIPTION		
—	L-858 AIRFIELD GUIDANCE SIGN		
○	L-861T BASE MOUNTED MITL		
⊙ _R	L-862E BASE MOUNTED THRESHOLD LIGHT		
⊙	L-867 ELECTRICAL PULLCAN (# INDICATES NUMBER OF CANS)		
⊗	L-849 REIL (UNI-DIRECTIONAL)		
---	CONDUIT & CABLE		
---	DUCT BANK		
---	DUCT BANK - BORED UNDER PAVEMENT		

NOTES

- REMOVE EXISTING WIRE, FIXTURE AND FOUNDATION. PLUG CONDUIT OPENINGS, ABANDON CONDUIT, AND BACKFILL PER DEMOLITION REPAIR IN-SHOULDER PAVEMENT & TURF AREA DETAIL ON SHEET E-502.

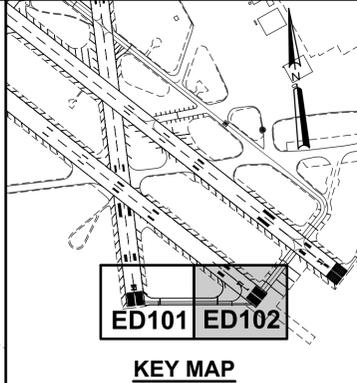
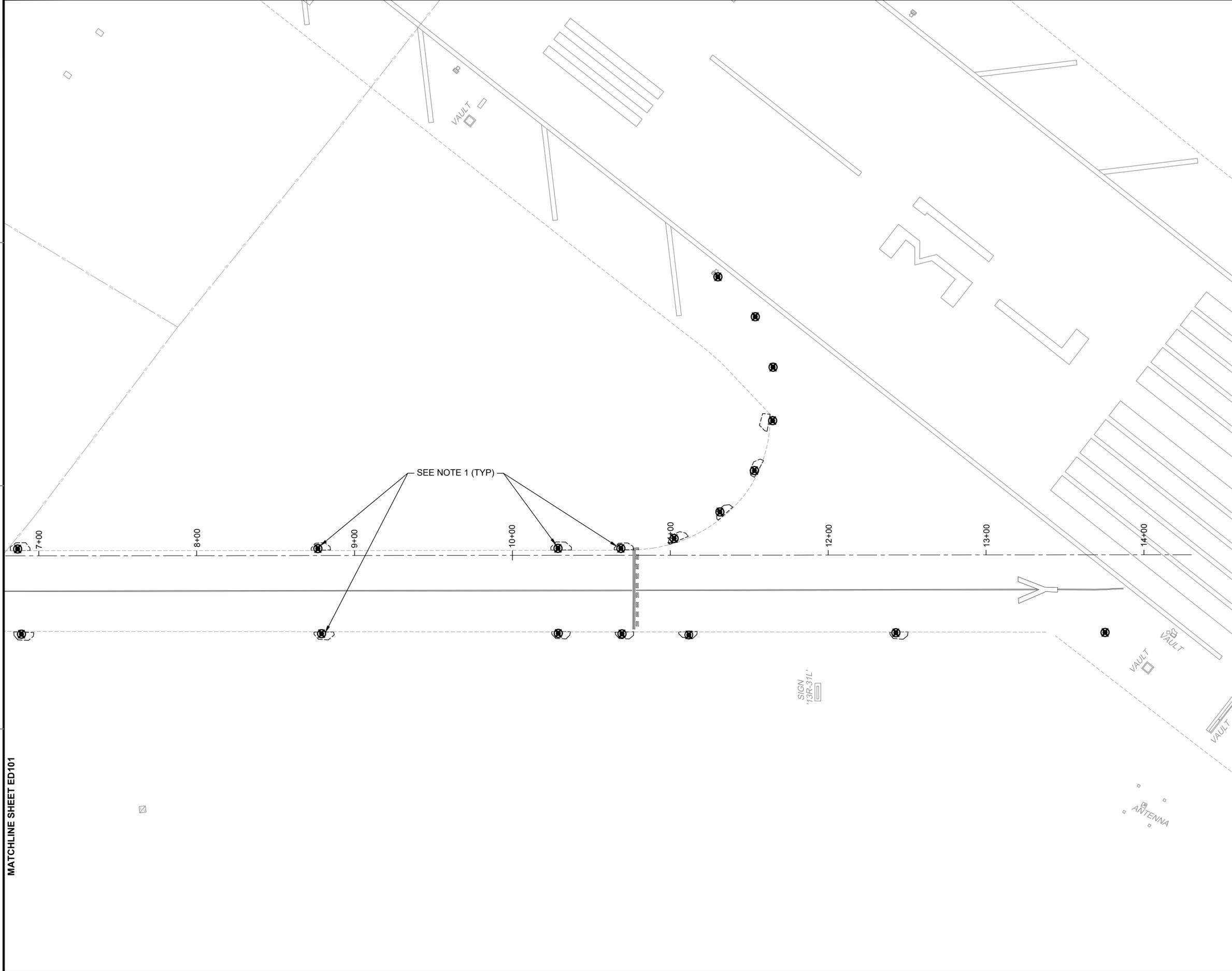
MATCHLINE SHEET ED102

30 0 30 60
SCALE: 1"=30' FEET

DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES EFC DRW MRM CHK JMM PROJECT MANAGER IPT TECH BRANCH HEAD CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE CHIEF CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' ELECTRICAL DEMOLITION PLAN	
SCALE:	1" = 30'
PROJECT NO.:	15095469
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095469
SHEET:	33 OF 41
ED101	
DRAWING REVISION: 5 APRIL 2012	

FILE NAME: N:\14072\14 CAD\08b-Taxiway 2\1302445-E-ED102.dwg LAYOUT NAME: ED102 ED102 PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: mm

MATCHLINE SHEET ED101



ELECTRICAL SYMBOL LEGEND

SYMBOL STATUS

EXISTING	REMOVE	INSTALL	REPLACE

SYMBOL	DESCRIPTION
	L-858 AIRFIELD GUIDANCE SIGN
	L-861T BASE MOUNTED MITL
	L-862E BASE MOUNTED THRESHOLD LIGHT
	L-867 ELECTRICAL PULLCAN (# INDICATES NUMBER OF CANS)
	L-849 REIL (UNI-DIRECTIONAL)
	CONDUIT & CABLE
	DUCT BANK
	DUCT BANK - BORED UNDER PAVEMENT

NOTES

- REMOVE EXISTING WIRE, FIXTURE AND FOUNDATION. PLUG CONDUIT OPENINGS, ABANDON CONDUIT, AND BACKFILL PER DEMOLITION REPAIR IN-SHOULDER PAVEMENT & TURF AREA DETAIL ON SHEET E-502.



ISSUED FOR BID	6 NOV 15	DATE
SYMBOL DESCRIPTION		APPR.



APPROVED FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES EFC | DRW MRM | CHK JMM

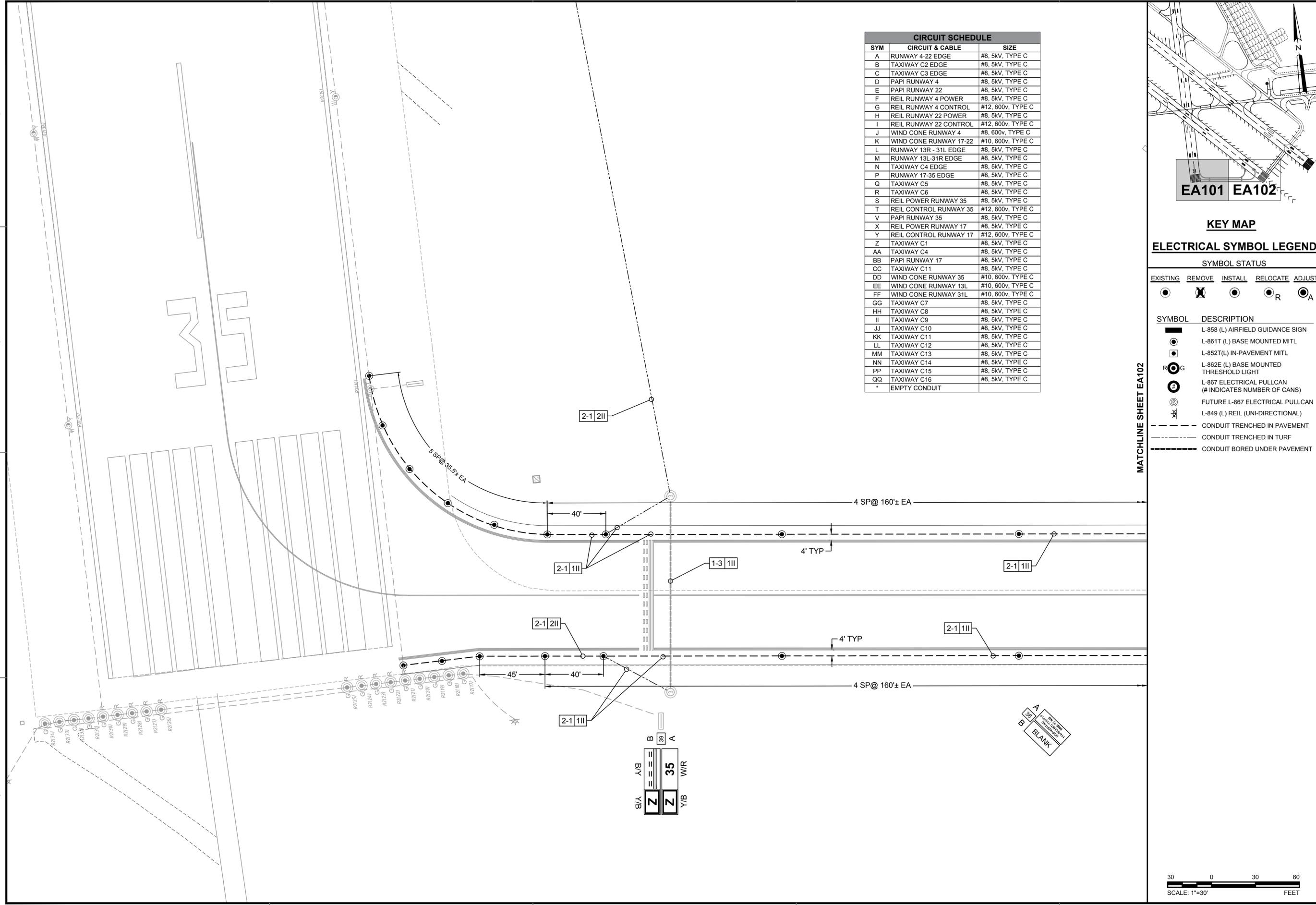
PROJECT MANAGER

IPT TECH BRANCH HEAD

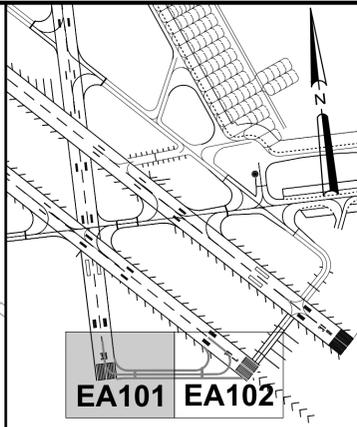
CHIEF ENGINEER (CORE)

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVAL FACILITIES ENGINEERING SOUTHEAST	NAVAL AIR STATION JACKSONVILLE
CIBL CORE	NAS CORPUS CHRISTI	CORPUS CHRISTI, TEXAS	NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z'
ELECTRICAL DEMOLITION PLAN			
SCALE: 1" = 30'			
EPROJCT NO: 15095470			
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO. 15095470			
SHEET 34 OF 41			
ED102			
DRAWFORM REVISION: 5 APRIL 2012			

FILE NAME: N:\14072\04 CAD\08b-Taxiway Z\1302445-E-EA101.dwg LAYOUT NAME: EA101 PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: mm



CIRCUIT SCHEDULE		
SYM	CIRCUIT & CABLE	SIZE
A	RUNWAY 4-22 EDGE	#8, 5kV, TYPE C
B	TAXIWAY C2 EDGE	#8, 5kV, TYPE C
C	TAXIWAY C3 EDGE	#8, 5kV, TYPE C
D	PAPI RUNWAY 4	#8, 5kV, TYPE C
E	PAPI RUNWAY 22	#8, 5kV, TYPE C
F	REIL RUNWAY 4 POWER	#8, 5kV, TYPE C
G	REIL RUNWAY 4 CONTROL	#12, 600v, TYPE C
H	REIL RUNWAY 22 POWER	#8, 5kV, TYPE C
I	REIL RUNWAY 22 CONTROL	#12, 600v, TYPE C
J	WIND CONE RUNWAY 4	#8, 600v, TYPE C
K	WIND CONE RUNWAY 17-22	#10, 600v, TYPE C
L	RUNWAY 13R - 31L EDGE	#8, 5kV, TYPE C
M	RUNWAY 13L-31R EDGE	#8, 5kV, TYPE C
N	TAXIWAY C4 EDGE	#8, 5kV, TYPE C
P	RUNWAY 17-35 EDGE	#8, 5kV, TYPE C
Q	TAXIWAY C5	#8, 5kV, TYPE C
R	TAXIWAY C6	#8, 5kV, TYPE C
S	REIL POWER RUNWAY 35	#8, 5kV, TYPE C
T	REIL CONTROL RUNWAY 35	#12, 600v, TYPE C
V	PAPI RUNWAY 35	#8, 5kV, TYPE C
X	REIL POWER RUNWAY 17	#8, 5kV, TYPE C
Y	REIL CONTROL RUNWAY 17	#12, 600v, TYPE C
Z	TAXIWAY C1	#8, 5kV, TYPE C
AA	TAXIWAY C4	#8, 5kV, TYPE C
BB	PAPI RUNWAY 17	#8, 5kV, TYPE C
CC	TAXIWAY C11	#8, 5kV, TYPE C
DD	WIND CONE RUNWAY 35	#10, 600v, TYPE C
EE	WIND CONE RUNWAY 13L	#10, 600v, TYPE C
FF	WIND CONE RUNWAY 31L	#10, 600v, TYPE C
GG	TAXIWAY C7	#8, 5kV, TYPE C
HH	TAXIWAY C8	#8, 5kV, TYPE C
II	TAXIWAY C9	#8, 5kV, TYPE C
JJ	TAXIWAY C10	#8, 5kV, TYPE C
KK	TAXIWAY C11	#8, 5kV, TYPE C
LL	TAXIWAY C12	#8, 5kV, TYPE C
MM	TAXIWAY C13	#8, 5kV, TYPE C
NN	TAXIWAY C14	#8, 5kV, TYPE C
PP	TAXIWAY C15	#8, 5kV, TYPE C
QQ	TAXIWAY C16	#8, 5kV, TYPE C
*	EMPTY CONDUIT	



KEY MAP
ELECTRICAL SYMBOL LEGEND

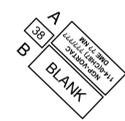
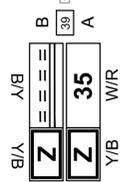
SYMBOL STATUS

EXISTING	REMOVE	INSTALL	RELOCATE	ADJUST
●	✕	○	○ _R	○ _A

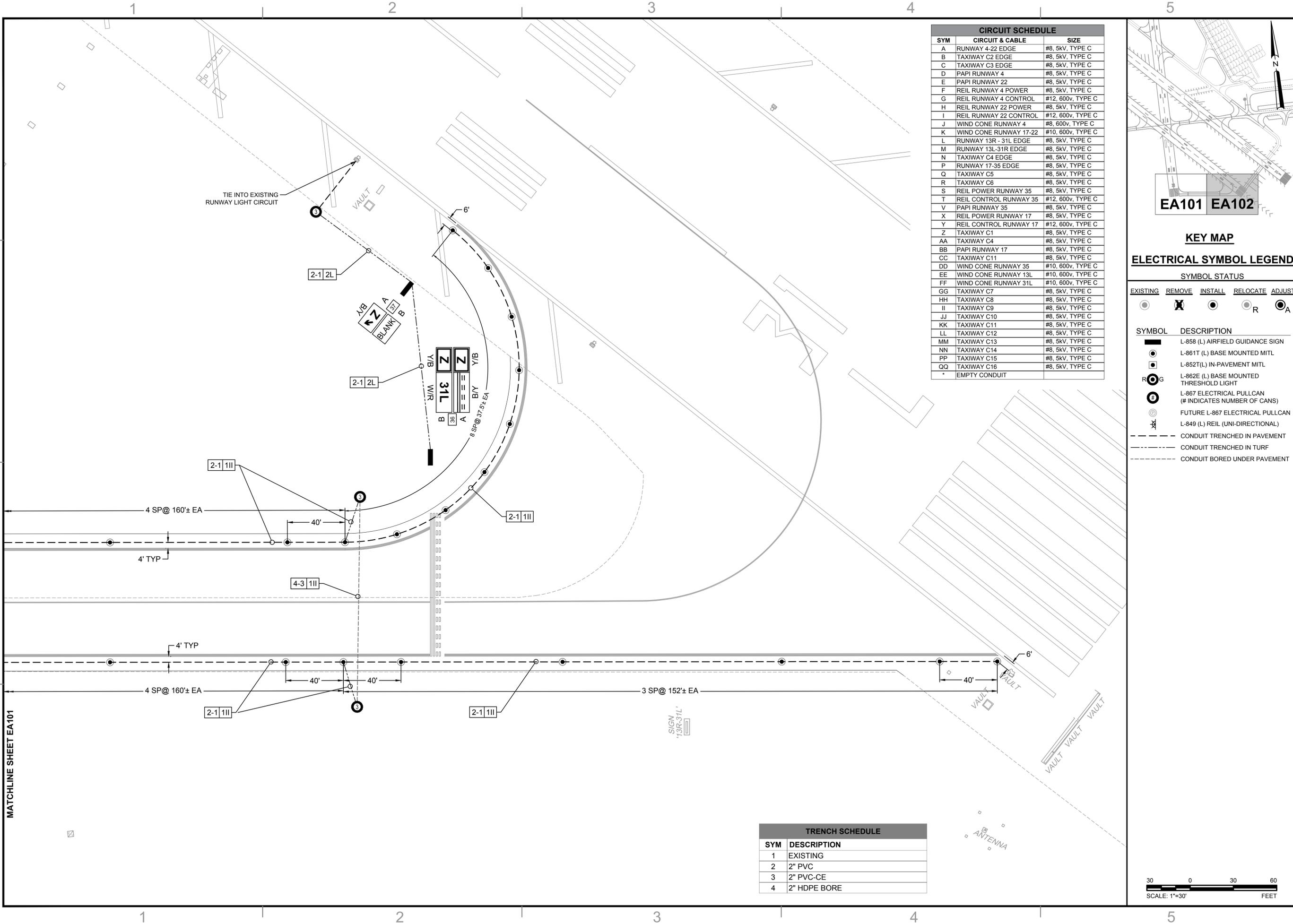
SYMBOL DESCRIPTION

SYMBOL	DESCRIPTION
—	L-858 (L) AIRFIELD GUIDANCE SIGN
○	L-861T (L) BASE MOUNTED MITL
○	L-852(L) IN-PAVEMENT MITL
○	L-862E (L) BASE MOUNTED THRESHOLD LIGHT
○ _R	L-867 ELECTRICAL PULLCAN (# INDICATES NUMBER OF CANS)
○ _A	FUTURE L-867 ELECTRICAL PULLCAN
—	L-849 (L) REIL (UNI-DIRECTIONAL)
---	CONDUIT TRENCHED IN PAVEMENT
---	CONDUIT TRENCHED IN TURF
---	CONDUIT BORED UNDER PAVEMENT

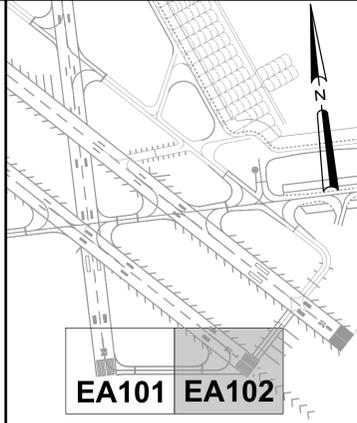
DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	EFC drw MRM chk JMM
PROJECT MANAGER	
IP/T TECH. BRANCH HEAD	
CHIEF ENGINEER (CORE)	
NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' ELECTRICAL LAYOUT	
SCALE:	1" = 30'
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095471
SHEET	35 OF 41
EA101	
<small>DRAWING REVISION: 5 APRIL 2012</small>	



FILE NAME: N:\14072\04 CAD\08b-Taxiway 2\1302445-E-EA102.dwg LAYOUT NAME: EA102 PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: nmm



CIRCUIT SCHEDULE		
SYM	CIRCUIT & CABLE	SIZE
A	RUNWAY 4-22 EDGE	#8, 5KV, TYPE C
B	TAXIWAY C2 EDGE	#8, 5KV, TYPE C
C	TAXIWAY C3 EDGE	#8, 5KV, TYPE C
D	PAPI RUNWAY 4	#8, 5KV, TYPE C
E	PAPI RUNWAY 22	#8, 5KV, TYPE C
F	REIL RUNWAY 4 POWER	#8, 5KV, TYPE C
G	REIL RUNWAY 4 CONTROL	#12, 600v, TYPE C
H	REIL RUNWAY 22 POWER	#8, 5KV, TYPE C
I	REIL RUNWAY 22 CONTROL	#12, 600v, TYPE C
J	WIND CONE RUNWAY 4	#8, 600v, TYPE C
K	WIND CONE RUNWAY 17-22	#10, 600v, TYPE C
L	RUNWAY 13R - 31L EDGE	#8, 5KV, TYPE C
M	RUNWAY 13L-31R EDGE	#8, 5KV, TYPE C
N	TAXIWAY C4 EDGE	#8, 5KV, TYPE C
P	RUNWAY 17-35 EDGE	#8, 5KV, TYPE C
Q	TAXIWAY C5	#8, 5KV, TYPE C
R	TAXIWAY C6	#8, 5KV, TYPE C
S	REIL POWER RUNWAY 35	#8, 5KV, TYPE C
T	REIL CONTROL RUNWAY 35	#12, 600v, TYPE C
V	PAPI RUNWAY 35	#8, 5KV, TYPE C
X	REIL POWER RUNWAY 17	#8, 5KV, TYPE C
Y	REIL CONTROL RUNWAY 17	#12, 600v, TYPE C
Z	TAXIWAY C1	#8, 5KV, TYPE C
AA	TAXIWAY C4	#8, 5KV, TYPE C
BB	PAPI RUNWAY 17	#8, 5KV, TYPE C
CC	TAXIWAY C11	#8, 5KV, TYPE C
DD	WIND CONE RUNWAY 35	#10, 600v, TYPE C
EE	WIND CONE RUNWAY 13L	#10, 600v, TYPE C
FF	WIND CONE RUNWAY 31L	#10, 600v, TYPE C
GG	TAXIWAY C7	#8, 5KV, TYPE C
HH	TAXIWAY C8	#8, 5KV, TYPE C
II	TAXIWAY C9	#8, 5KV, TYPE C
JJ	TAXIWAY C10	#8, 5KV, TYPE C
KK	TAXIWAY C11	#8, 5KV, TYPE C
LL	TAXIWAY C12	#8, 5KV, TYPE C
MM	TAXIWAY C13	#8, 5KV, TYPE C
NN	TAXIWAY C14	#8, 5KV, TYPE C
PP	TAXIWAY C15	#8, 5KV, TYPE C
QQ	TAXIWAY C16	#8, 5KV, TYPE C
*	EMPTY CONDUIT	



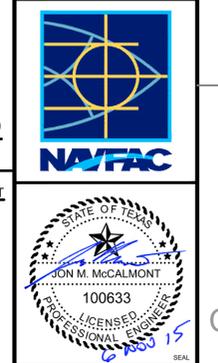
KEY MAP
ELECTRICAL SYMBOL LEGEND

SYMBOL STATUS

EXISTING	REMOVE	INSTALL	RELOCATE	ADJUST

SYMBOL	DESCRIPTION
	L-858 (L) AIRFIELD GUIDANCE SIGN
	L-861T (L) BASE MOUNTED MITL
	L-852T(L) IN-PAVEMENT MITL
	L-862E (L) BASE MOUNTED THRESHOLD LIGHT
	L-867 ELECTRICAL PULLCAN (# INDICATES NUMBER OF CANS)
	L-849 (L) REIL (UNI-DIRECTIONAL)
	CONDUIT TRENCHED IN PAVEMENT
	CONDUIT TRENCHED IN TURF
	CONDUIT BORED UNDER PAVEMENT

DATE	DESCRIPTION
6 NOV 15	ISSUED FOR BID



leidos
LEIDOS ENGINEERING, LLC
ONE WEST 3RD ST.
THEIA, OK 73162

DELTA AIRPORT CONSULTANTS, INC.
9711 Foster Court, Suite 100
Richmond, Virginia 23234
phone: (804) 275-8301 • fax: (804) 275-8371
www.deltaairport.com
Delta Project No. 14072 AE-002

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES EFC DRW MRM CHK JMM
PROJECT MANAGER
IP/T TECH BRANCH HEAD
CHIEF ENGINEER (CORE)

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION JACKSONVILLE
CIBL CORE
NAS CORPUS CHRISTI
CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z'
ELECTRICAL LAYOUT

SCALE: 1" = 30'

EPROJECT NO:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 15095472

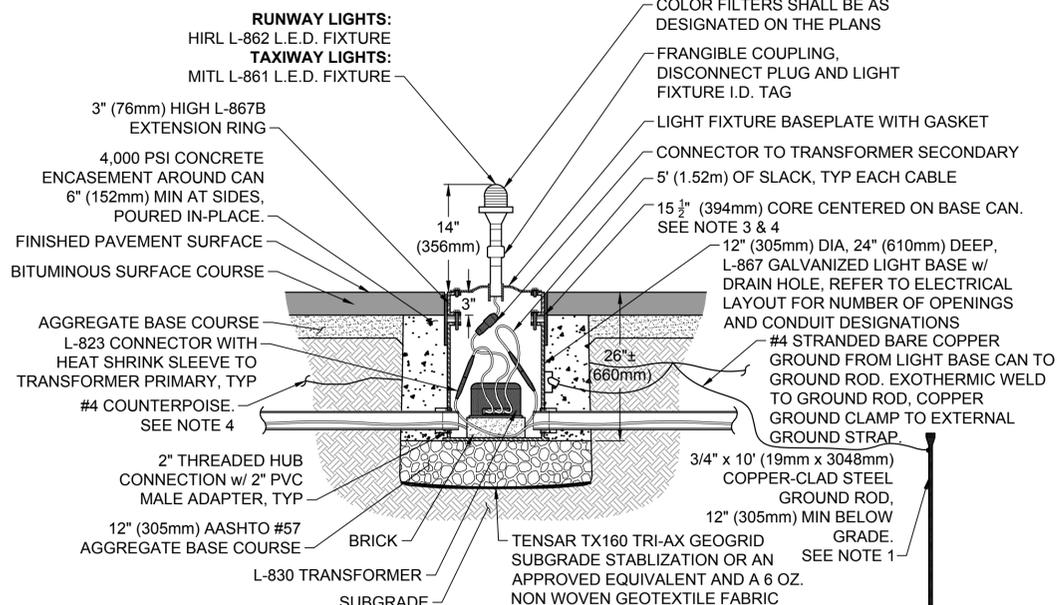
SHEET 36 OF 41

EA102

DRAWFORM REVISION: 5 APRIL 2012

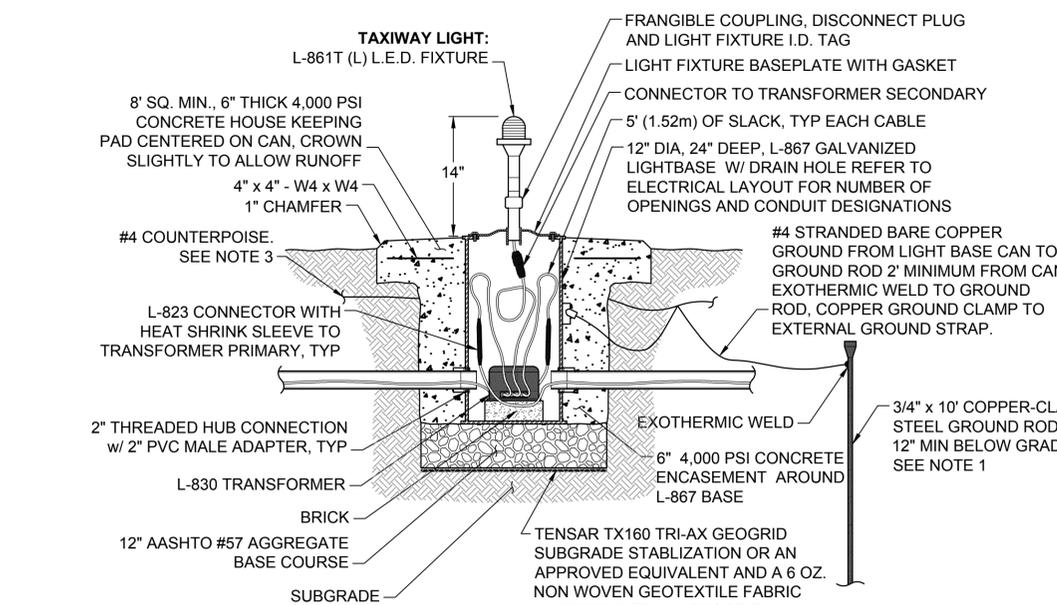
TRENCH SCHEDULE	
SYM	DESCRIPTION
1	EXISTING
2	2" PVC
3	2" PVC-CE
4	2" HDPE BORE





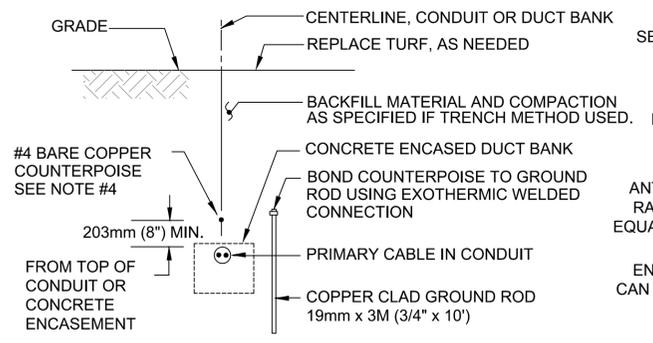
1 L.E.D. RUNWAY & TAXIWAY EDGE LIGHT IN PAVED SHOULDER DETAIL
SCALE: NTS

- NOTE:
1. PROVIDE A 3/4" x 10' (19mm X 3048mm) COPPER-CLAD GROUND RODS IN THE TRENCH 3' (76mm) MIN FROM BASE CAN.
 2. PROVIDE MUD PLATE, CORE PAVEMENT INSTALL EXTENSION RING AND SPACERS AS REQUIRED. THE EXTENSION RING MUST BE FLUSH WITH THE HIGHEST EDGE OF THE BITUMINOUS CONCRETE FOR DRAINAGE.
 3. CORE FULL DEPTH OF BITUMINOUS CONCRETE. FILL VOID BETWEEN PAVEMENT AND EXTENSION RING WITH AN APPROVED NON-SHRINK, NON-METALIC HYDRAULIC GROUT (4,000 PSI MIN.) THE GROUT MUST BE FLUSH WITH THE TOP OF THE EXTENSION RING AND THE TOP OF THE PAVEMENT.
 4. ROUTE COUNTERPOISE AROUND CONCRETE ENCASEMENT TOWARD FULL STRENGTH PAVEMENT



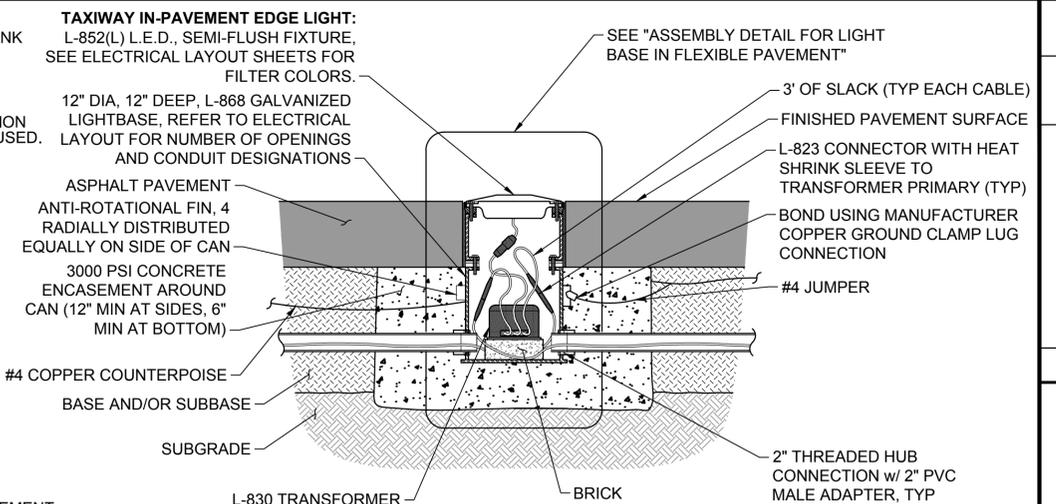
2 L.E.D. TAXIWAY EDGE LIGHT DETAIL
SCALE: NTS

- NOTES:
1. PROVIDE A 3/4" x 10' (19mm X 3048mm) COPPER-CLAD GROUND ROD IN THE TRENCH 3' MIN FROM BASE CAN.
 2. WHEN THE CONCRETE HOUSEKEEPING PAD ABUTS AN EXISTING PAVEMENT, SAW CUT A STRAIGHT AND NEAT VERTICAL FACE TO PROVIDE A CONCRETE FORMED EDGE WITH THE PAVEMENT.
 3. ROUTE COUNTERPOISE AROUND CONCRETE ENCASEMENT TOWARD FULL STRENGTH PAVEMENT



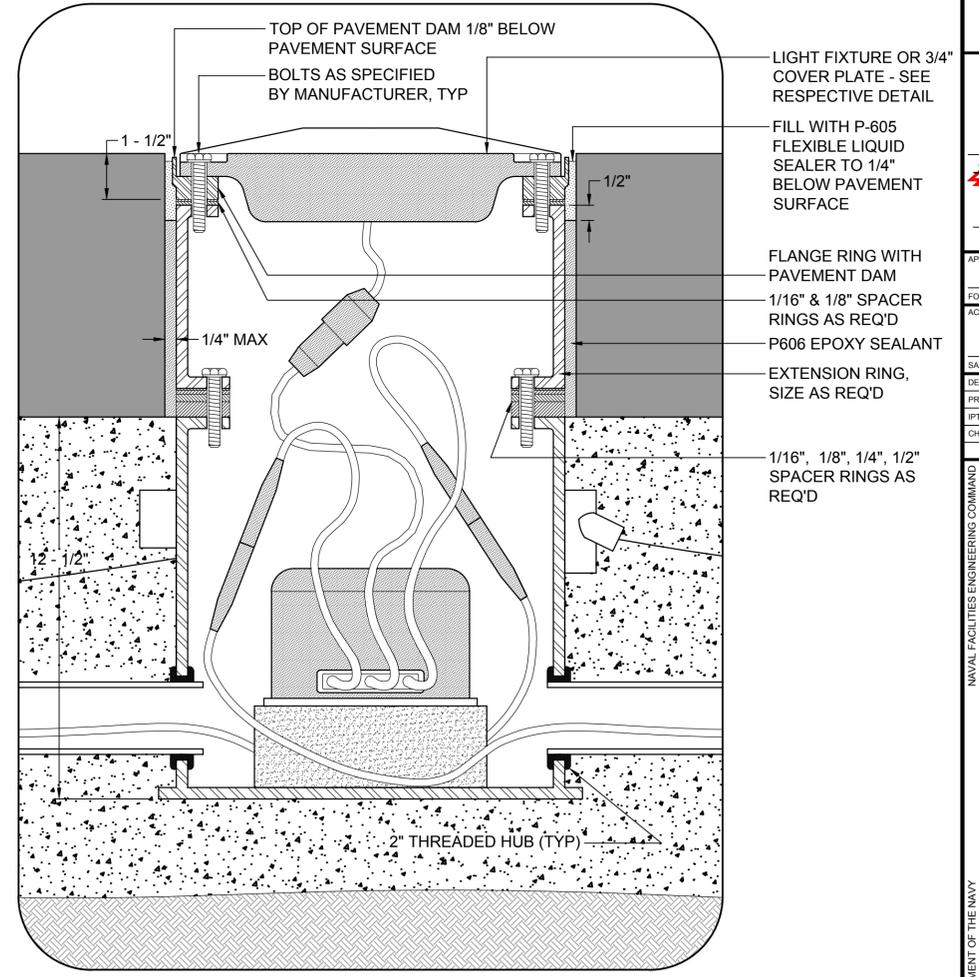
3 COUNTERPOISE & GROUND ROD INSTALLATION DETAIL
SCALE: NTS

- NOTES:
1. CONNECT COUNTERPOISE TO EACH LIGHT BASE AND MANHOLES/HANDHOLE GROUNDING COMPONENTS, UNLESS OTHERWISE SPECIFIED.
 2. PROVIDE GROUND RODS SPACED MAX. 300M (1000FT).
 3. PLACE COUNTERPOISE ON NEXT-TO-LAST LIFT OF COMPACTED BASE MATERIAL UNDER SHOULDER.
 4. WHERE SOIL IS CONSIDERED HIGHLY CORROSIVE (<10,000 OHM-CM RESISTIVITY), THE SIZE OF THE COUNTERPOISE MUST BE #1/0 AWG (MIN.).
 5. 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.



4 L.E.D. TAXIWAY IN-PAVEMENT LIGHT DETAIL
SCALE: NTS

- NOTES:
1. USE HIGH EARLY STRENGTH CONCRETE. PROVIDE SUBMITTAL FOR APPROVAL.
 2. SEALANT MUST BE DOW CORNING 890-SL SEALANT OR APPROVED EQUIVALENT.
 3. SEALANT MUST BE APPLIED SO THAT LIGHT FIXTURE HOUSING IS NOT SEALED TO FLANGE RING.
 4. PERIMETER EDGE OF FIXTURE MUST BE FLUSH WITH PAVEMENT SURFACE
 5. ALL DIRECT BURIED BARE WIRE CONNECTIONS MUST BE EXOTHERMIC WELDS ONLY. LUG CONNECTIONS MUST BE USED FOR CONCRETE ENCASED APPLICATIONS.



5 ASSEMBLY DETAIL FOR LIGHT BASE IN FLEXIBLE PAVEMENT
SCALE: NTS

- NOTES:
1. P-605 SEALANT MUST BE TYPE 3 COMPATIBLE WITH ASPHALT.
 2. SEALANT MUST BE APPLIED SO THAT LIGHT FIXTURE HOUSING IS NOT SEALED TO FLANGE RING.
 3. PERIMETER EDGE OF FIXTURE MUST BE FLUSH WITH PAVEMENT SURFACE.

FILE NAME: N:\14072\04 CAD\08b-Taxiway 2\1302445-E-501.dwg LAYOUT NAME: E501 PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: mm

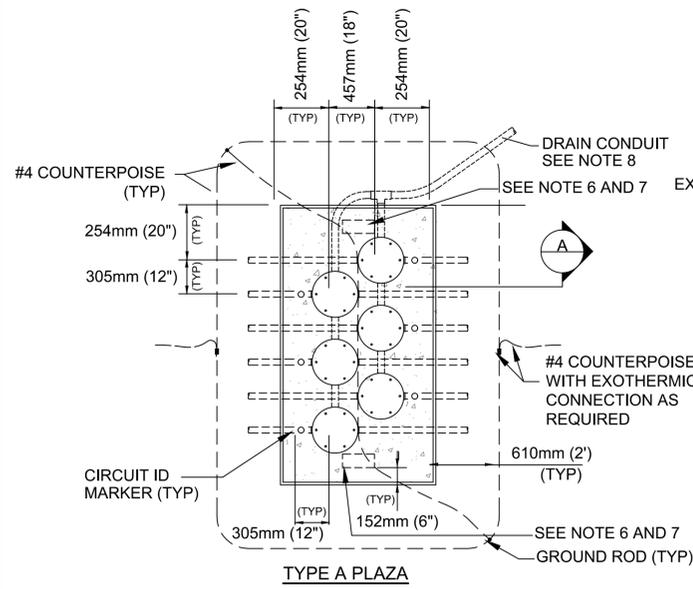
DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	



APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	EFC drw MRM chk JMM
PROJECT MANAGER	
IPIT TECH. BRANCH HEAD	
CHIEF ENGINEER (CORE)	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 NAS CORPUS CHRISTI AIRFIELD REPAIRS
 TAXIWAY 'Z'
 ELECTRICAL DETAILS

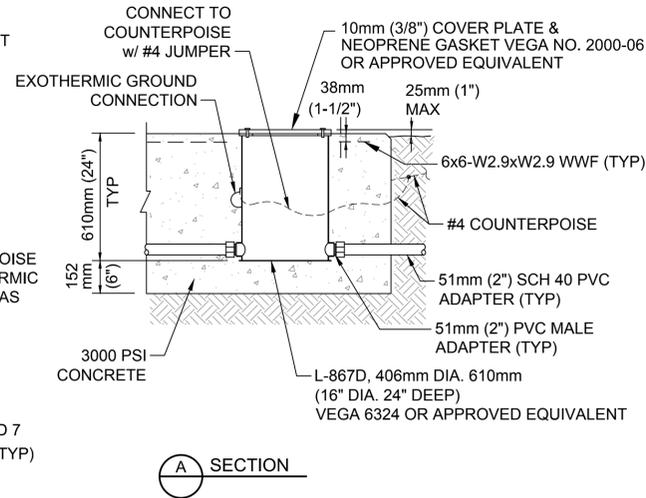
SCALE	NTS
EPROJCT NO.	15095473
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET	37 of 41
E-501	



1 JUNCTION CAN PLAZA, TYPE A
SCALE: NTS

NOTES:

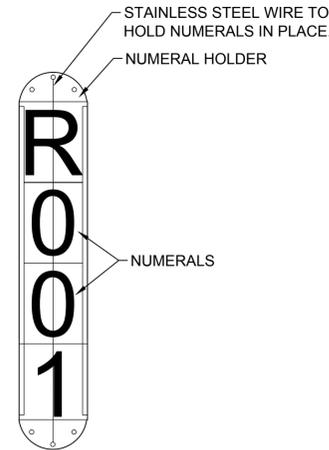
- NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
- CONDUITS WHICH ARE NOT USED IN THE PROJECT MUST BE CAPPED 304mm (12") OUTSIDE OF PLAZA CONCRETE.
- ORIENT PLAZA AS SHOWN ON LAYOUT PLAN SHEETS.
- CONTRACTOR MUST PROVIDE A 51mm (2") DIA DOMED BRONZE MARKER 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.



2 JUNCTION CAN PLAZA, TYPE B
SCALE: NTS

NOTES:

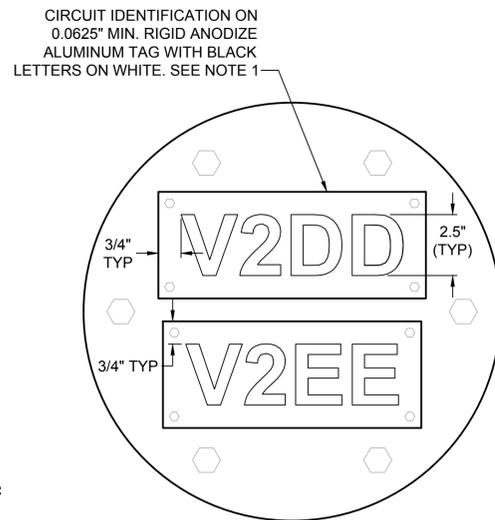
- NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
- CONDUITS WHICH ARE NOT USED IN THE PROJECT SHALL BE CAPPED 304mm (12") OUTSIDE OF PLAZA CONCRETE.
- ORIENT PLAZA AS SHOWN ON LAYOUT PLAN SHEETS.
- CONTRACTOR MUST PROVIDE A 51mm (2") DIA DOMED BRONZE 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 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 LIGHT FIXTURE IDENTIFICATION TAG DETAIL
SCALE: NTS

NOTES:

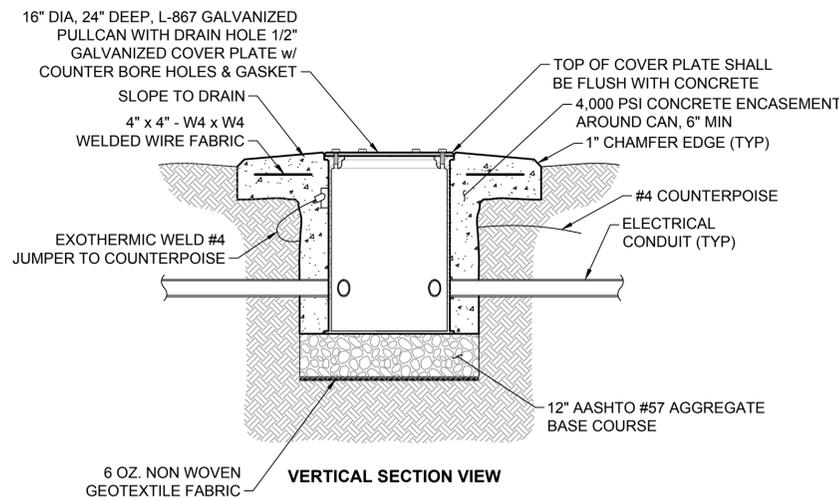
- THE CONTRACTOR MUST FURNISH AND INSTALL NUMBER TAGS ON ALL LIGHTS. THE TAGS MUST BE REFLECTIVE AND MUST BE "E-Z TAG" AS MANUFACTURED BY ALMATEK, OR APPROVED EQUAL. EACH TAG MUST BE A VERTICAL CONFIGURATION, CONSISTING OF A HOLDER AND NUMERALS.
- THE NUMBER TAG WILL CONSIST OF ONE LETTER (R OR C) PRECEDED BY THREE NUMBERS. THE NUMBER SEQUENCE MUST BE AS DEFINED ON THE PLANS.



4 PULLCAN LID LABEL DETAIL
SCALE: NTS

NOTE:

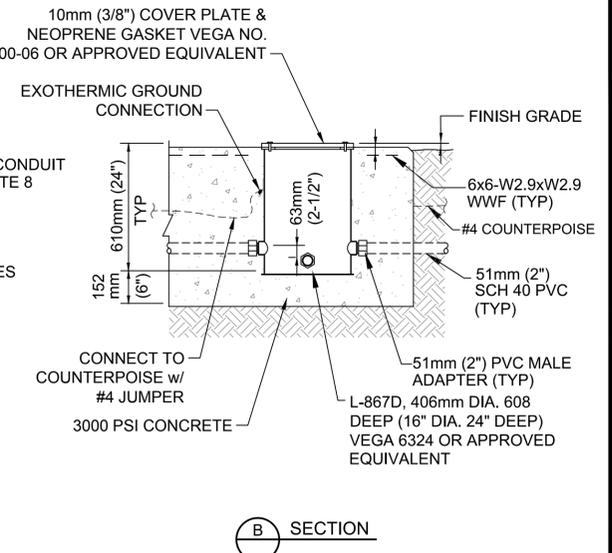
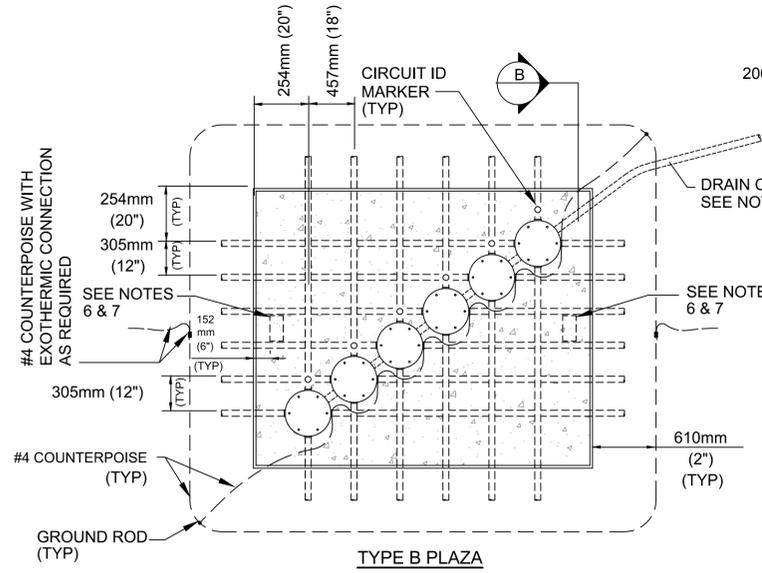
- PROVIDE HIGH PERFORMANCE ADHESIVE BACKING AND 4-3/16" DIA. HOLE FOR MECHANICAL ATTACHMENT WITH S.S. HEX HEAD WASHER SELF TAPPING SCREWS. PROVIDE SAMPLE TAG FOR APPROVAL BY THE CONTRACTING OFFICER.



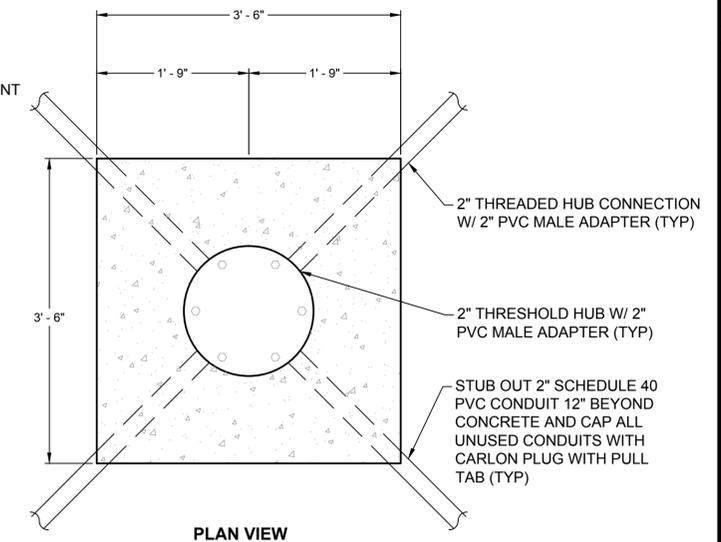
5 PULLCAN DETAIL
SCALE: NTS

NOTES:

- ADJUST ORIENTATION OF CONDUIT TO MATCH FIELD CONDITIONS.
- MULTI CANS MAY BE INSTALLED IN THE SAME PAD. PROVIDE A MINIMUM SPACING OF 2'-0" C-C BETWEEN CANS AND 1'-9" FROM THE CENTER OF THE CAN TO THE EDGE OF THE PAD.
- COVER PLATE MUST BE FLUSH WITH TOP OF CONCRETE. PROVIDE 1/8" TO 1/4" GAP BETWEEN CONCRETE AND COVER PLATE.
- CONTRACTOR MUST PROVIDE A LABEL INDICATING THE CIRCUIT(S) ID (2.5" HIGH) ON THE APPROPRIATE CAN LID FOR CIRCUIT IDENTIFICATION. SEE "PULLCAN LID LABEL DETAIL". DO NOT LABEL SPARE PULLCANS.



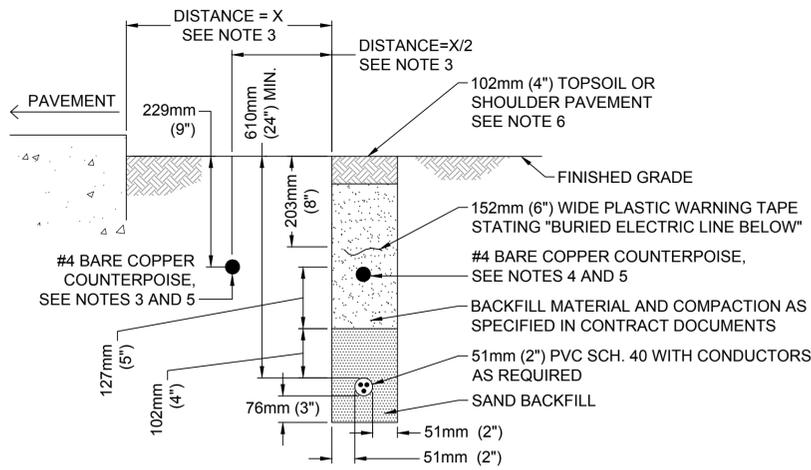
B SECTION



PLAN VIEW

DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	EFC drw MRM chk JMM
PROJECT MANAGER	
IPIT TECH - BRANCH HEAD	
CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING SOUTHEAST	
NAVAL AIR STATION JACKSONVILLE	
CIBL CORE	
NAS CORPUS CHRISTI	
NAS CORPUS CHRISTI AIRFIELD REPAIRS	
TAXIWAY 'Z'	
ELECTRICAL DETAILS	
SCALE:	NTS
EPROJCT NO.:	15095474
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET	38 of 41
E-502	
DRAWFORM REVISION: 5 APRIL 2012	

FILE NAME: N:\14072\04 CAD\08b-Taxiway Z\302445-E-502.dwg LAYOUT NAME: E502 PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: mm



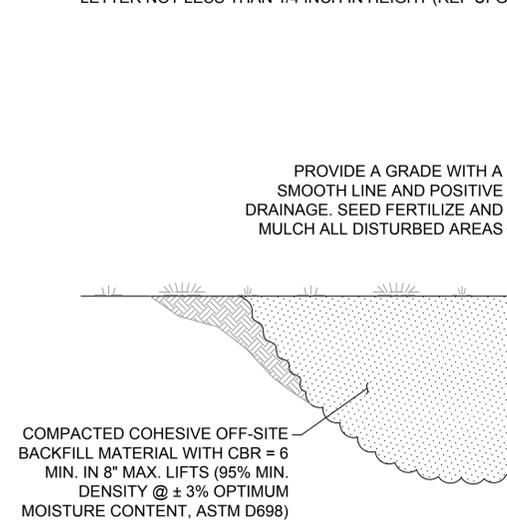
1 DIRECT BURIED DUCT/CONDUIT DETAIL
SCALE: NTS

NOTES:

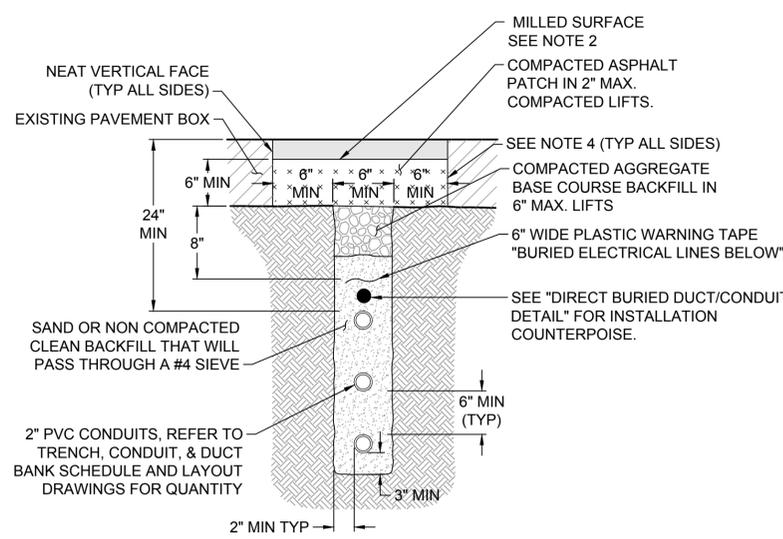
- WHEN MORE THAN ONE DUCT/CONDUIT IS PROVIDED, MAINTAIN A MINIMUM SEPARATION BETWEEN DUCTS/CONDUITS OF 51mm (2").
- DUCTS UNDER FULL STRENGTH PAVEMENT MUST BE CONCRETE ENCASED WITH A MINIMUM OF 76mm (3") ENCASEMENT ON TOP, BOTTOM AND SIDES. REFER TO FIGURE 6, CONCRETE ENCASED DUCT BANK DETAILS, FOR ADDITIONAL REQUIREMENTS.
- WHERE TRENCH RUNS PARALLEL TO PAVEMENT, LOCATE COUNTERPOISE HALFWAY BETWEEN PAVEMENT AND TRENCH. PROVIDE COUNTERPOISE 229mm (9") BELOW FINISHED GRADE.
- COUNTERPOISE LOCATION FOR DIRECT BURIED DUCT/CONDUIT NOT RUNNING PARALLEL TO PAVEMENT.
- WHERE SOIL IS CONSIDERED HIGHLY CORROSIVE (<10,000 OHM-CM RESISTIVITY), THE SIZE OF THE COUNTERPOISE MUST BE #1/0 AWG.
- WHERE DUCT/CONDUIT IS BELOW SHOULDER PAVEMENT PATCH TRENCH WITH MATERIAL THAT MATCHES EXISTING PAVEMENT.

2 TRENCH, CONDUIT, & DUCT BANK NOTES
SCALE: NTS

- ROUTE 5KV CABLES IN LOWER LEVEL CONDUITS WHERE POSSIBLE. DO NOT ROUTE DIFFERENT VOLTAGE CLASSIFICATION CABLES IN THE SAME CONDUIT.
- GROUND RODS MUST ALSO BE USED TO TERMINATE COUNTERPOISE AT BOTH ENDS OF TRENCH, CONDUIT RUN, OR DUCT BANK.
- 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 DEMOLITION/REPAIR IN TURF AREA DETAIL
SCALE: NTS



4 CONDUIT DETAIL - TRENCHED THROUGH EXISTING HMA PAVEMENT (2\"/>

SCALE: NTS

NOTES:

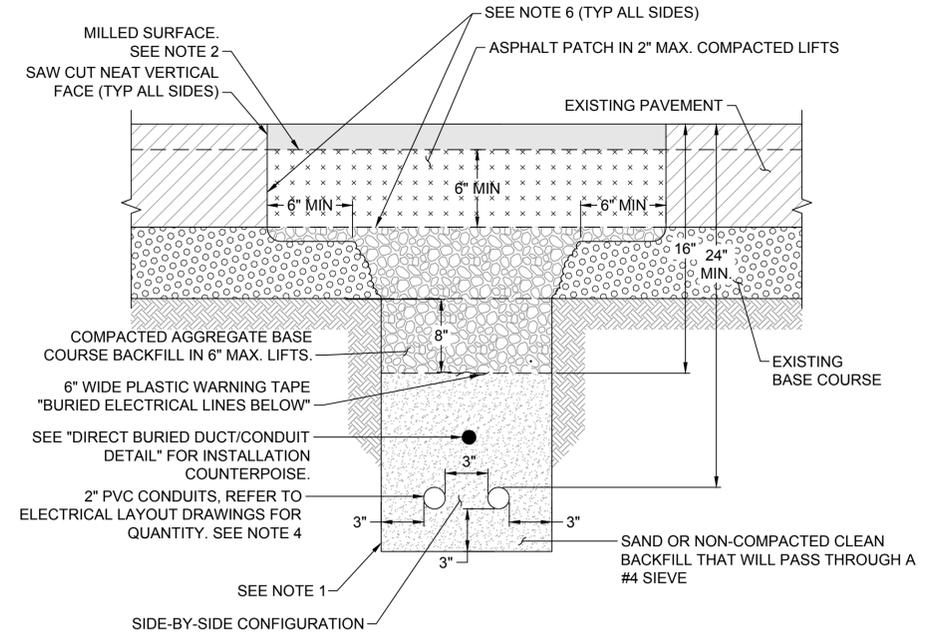
- THE ILLUSTRATION SHOWN ABOVE OF THE 3-WAY SINGLE COLUMN CONDUIT RUNS ARE FOR CONFIGURATION PURPOSES ONLY. SEE TRENCH, CONDUIT, & DUCT BANK SCHEDULE AND LAYOUT DRAWINGS FOR CONDUIT QUANTITY. SEE ELECTRICAL NOTES SHEET FOR TRENCH, CONDUIT, & DUCT BANK NOTES.
- IN A NON-MILLED SHOULDER AREA, THE ASPHALT 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 ALL VERTICAL ASPHALT AND ALL HORIZONTAL AGGREGATE BASE COURSE SURFACES AT A RATE OF ~0.15 GALLONS PER SQ. YARD.

5 2\"/>

SCALE: NTS

NOTE:

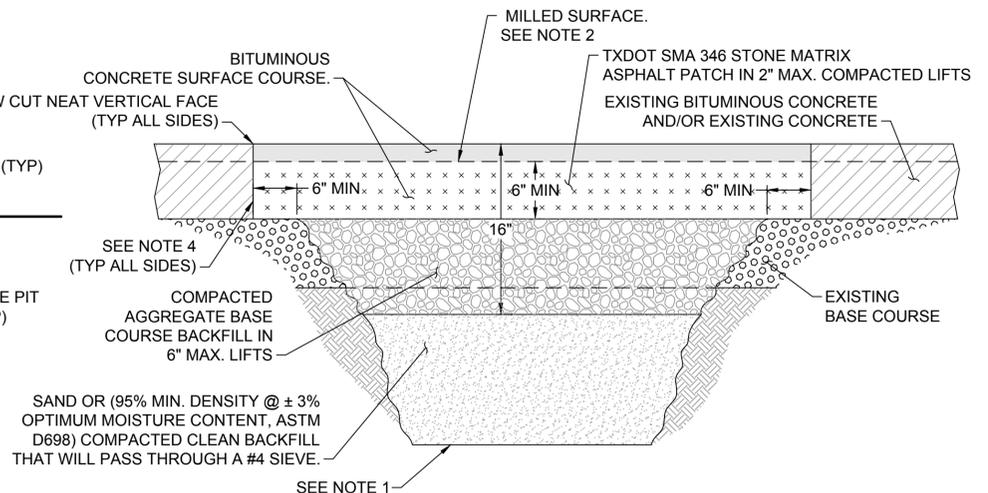
- ATTACH 1-#4 BARE STRANDED COPPER WIRE TO THE OUTSIDE OF THE HDPE CONDUIT OR GROUP OF CONDUITS WHEN INSTALLING THE CONDUITS. CONNECT THE #4 BARE WIRE TO THE CONTINUING TRENCH COUNTERPOISE WITH EXOTHERMIC WELDS. PROVIDE AND CONNECT A 3/4\"/>



6 CONDUIT DETAIL - CUT & PATCH IN-SHOULDER PAVEMENT
SCALE: NTS

NOTES:

- PRIOR TO BACKFILLING, CLEAN-OUT EXCAVATED AREA OF ALL LOOSE MATERIAL TO EXPOSE UNDISTURBED EDGES.
- IN A NON-MILLED SHOULDER AREA, THE ASPHALT PATCH MUST MATCH THE EXISTING PAVEMENT SURFACE.
- SPACE GROUND RODS AT 500' MAX. INTERVALS. BOND COUNTERPOISE TO GROUND ROD WITH #4 BARE COPPER CONDUCTOR, EXOTHERMIC WELD BOTH ENDS.
- IF MORE THAN TWO 2\"/>
- 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 ALL EXISTING ASPHALT AND ALL HORIZONTAL AGGREGATE BASE COURSE SURFACES AT A RATE OF ~0.15 GALLONS PER SQ. YARD.



7 DEMOLITION REPAIR IN-SHOULDER PAVEMENT DETAIL
SCALE: NTS

NOTES:

- PRIOR TO BACKFILLING, CLEAN-OUT EXCAVATED AREA OF LOOSE MATERIALS 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 HORIZONTAL AGGREGATE BASE COURSE SURFACES AT A RATE OF ~0.15 GALLONS PER SQ. YARD.

FILE NAME: N:\14072\04 CAD\08b-Taxway 2\1302449-E-503.dwg PLOTTED: Tuesday, November 10, 2015 - 12:28pm USER: mm

DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES EFC drw MRM chk JMM PROJECT MANAGER IPT TECH BRANCH HEAD CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE CHIEF CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXWAY 'Z' ELECTRICAL DETAILS	
SCALE:	NTS
PROJECT NO.:	15095475
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095475
SHEET	39 OF 41
E-503 <small>DRAWING REVISION: 5 APRIL 2012</small>	

SIGN SCHEDULE

SIGN #	DESCRIPTION		LOCATION		EQUIPMENT SPECIFICATIONS					COMMENTS
	PANEL "A"	PANEL "B"	STATION	OFFSET	# MODULES *	STYLE	CLASS	MODE	SIZE	
36										
37		BLANK								
38		BLANK								
39										
40		BLANK								EXISTING SIGN #40

* ESTIMATE - COORDINATE WITH SIGN MANUFACTURER ON EXACT NUMBER OF MODULES

** REFER TO TYPICAL SIGN LAYOUT DETAIL

REFERENCE INFORMATION FROM A/C 150/5345-44H "SPECIFICATIONS FOR RUNWAY AND TAXIWAY SIGNS (28 SEP 07)"

STYLE 1 = 120 VAC
 STYLE 2 = 3 STEPS 4.8-6.6 AMPS
 STYLE 3 = 5 STEPS 2.8 - 6.6 AMPS OR 8.5 - 20.0 AMPS
 STYLE 4 = UNLIGHTED
 STYLE 5 = 1 STEP 5.5 AMPS
 CLASS 1 = OPERATING TEMPERATURE FROM -4F (-20C) TO +131F (55C)
 CLASS 2 = OPERATING TEMPERATURE FROM -40F (-40C) TO +131F (55C)
 MODE 1 = WIND LOADING TO 100 MPH
 MODE 2 = WIND LOADING TO 200 MPH
 MODE 3 = WIND LOADING TO 300 MPH
 SIZE 1 = 18" HIGH PANEL WITH 12" CHARACTER
 SIZE 2 = 24" HIGH PANEL WITH 15" CHARACTER
 SIZE 3 = 30" HIGH PANEL WITH 18" CHARACTER
 SIZE 4 = 48" HIGH PANEL WITH 40" CHARACTER
 SIZE 5 = 30" HIGH PANEL WITH 25" CHARACTER

LOCATION GUIDE



SIGN COLOR LEGEND

- W - WHITE
 - R - RED
 - B - BLACK
 - Y - YELLOW
 - O - OBSCURED
 - G - GREEN
 - C - CLEAR
- CHARACTER COLOR: W/R
- BACKGROUND COLOR: (indicated by arrows pointing to the legend)

ELECTRICAL NOTES:

- THE LOCATION OF UTILITIES SHOWN IS APPROXIMATE ONLY AND MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE BEGINNING CONSTRUCTION. SOME UTILITIES ARE NOT NECESSARILY SHOWN.
- THE CONTRACTOR MUST LOCATE UTILITIES DURING CONSTRUCTION, AND HAND DIG WHEN WITHIN THREE (3) FEET OF KNOWN OR SUSPECTED UNDERGROUND UTILITY.
- CABLES MUST BE TAGGED AT EACH CONNECTION AND AT EACH ENTRANCE TO DUCTS, HANDHOLES AND PULL CANS. CABLE TAGS MUST BE ALMETEK MINI-TAGS KIT WITH BLACK STAMPED YELLOW POLYETHYLENE LETTERS OR APPROVED EQUIVALENT. ATTACH TAGS WITH CABLE TIES.
- ELECTRICAL WORK MUST BE COMPLETED IN ACCORDANCE WITH LOCAL CODE AND CURRENT NEC HANDBOOK.
- THE CONTRACTOR MUST MANUALLY LOCK OUT EACH CIRCUIT AT THE VAULT WHEN WORK IS BEING PERFORMED ON THE CIRCUIT. THE CIRCUIT MUST BE TAGGED AND THE CONTRACTOR'S NAME CLEARLY IDENTIFIED ON EACH TAG WITH AN APPROVED LOCK OUT KIT. THE CONTRACTING OFFICER'S DESIGNATED REPRESENTATIVE MUST BE NOTIFIED EACH TIME A CIRCUIT IS SECURED AND EACH TIME THE CIRCUIT IS RETURNED TO OPERATIONAL STATUS. THE CONTRACTOR MUST BE CERTIFIED AND TRAINED BY THE CONTRACTING OFFICER'S DESIGNATED REPRESENTATIVE PRIOR TO PERFORMING WORK OR LOCK-OUT PROCEDURES IN THE ELECTRICAL VAULT.
- UNDERGROUND CONDUITS MUST BE PVC, SCHEDULE 40, UNLESS OTHERWISE NOTED. UNDERGROUND CONDUITS MUST BE UL APPROVED. UNDERGROUND CONDUIT BENDS MUST BE LONG RADIUS ANGLES.
- WHERE CONDUIT IS TO BE CONNECTED TO EXISTING CONDUIT, THE CONTRACTOR MUST MAKE THE CONNECTION USING MANUFACTURED COUPLINGS.
- FIELD LOCATE EXISTING DUCTS WHICH WILL BE UTILIZED FOR THIS PROJECT. APPROXIMATE LOCATIONS ARE SHOWN.
- RUNWAY AND/OR TAXIWAY LIGHTS MUST BE DE-ENERGIZED OR PROPERLY COVERED ON CLOSED SEGMENTS OF RUNWAY(S) AND TAXIWAY(S).
- THE CONTRACTOR MUST FIELD STAKE LIGHTS AND AIRFIELD SIGNS, PRIOR TO INSTALLATION. DISCREPANCIES IN ALIGNMENT OR LOCATION MUST BE RESOLVED PRIOR TO INSTALLATION. THE LOCATION OF HOLD LINES MUST BE CONFIRMED PRIOR TO INSTALLATION OF THE SIGNS.
- THE LOCATIONS OF P.T.'S SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD VERIFIED AND APPROVED BY THE CONTRACTING OFFICER'S DESIGNATED REPRESENTATIVE.
- SIGN INSTALLATION MUST BE PERPENDICULAR TO THE RUNWAY OR TAXIWAY CENTERLINE, UNLESS NOTED DIFFERENTLY ON THE PLANS. PRIOR TO INSTALLING THE SIGN FOUNDATION, THE CONTRACTOR MUST VERIFY THE NUMBER OF MODULES AND/OR LENGTH OF EACH SIGN WITH THE MANUFACTURER TO ACCOMMODATE THE SIGN LEGEND/DESCRIPTION.
- PULLCANS MUST HAVE A 1/2" THICK COVER PLATE WITH COUNTER BORE HOLES AND TWO OPPOSITE HOLES (0,180) TAPPED 1/2" - 13. COVER PLATES MUST BE HOT DIPPED GALVANIZED AFTER FABRICATION. AT THE END OF THE PROJECT, THE CONTRACTOR MUST TURN OVER TO THE CONTRACTING OFFICER FOUR (4) 1/2"-13 EYEBOLTS.
- PROVIDE TXDOT APPROVED HIGH EARLY STRENGTH CONCRETE (CALCIUM ALUMINATE CEMENT) AS REQUIRED TO MEET A MILESTONE CONSTRUCTION PERIOD. HIGH EARLY STRENGTH CONCRETE MUST ACHIEVE A MINIMUM OF 70% DESIGN STRENGTH PRIOR TO REOPENING A RUNWAY OR TAXIWAY.
- COORDINATE (AT LEAST 72 HOURS IN ADVANCE) THE INTERRUPTION OF SERVICE TO ACTIVE LIGHTING CIRCUITS WITH THE CONTRACTING OFFICER. DAMAGE TO EXISTING AIRPORT CIRCUITS CAUSED BY THE CONTRACTOR'S EQUIPMENT OR PERSONNEL MUST BE PROMPTLY REPAIRED, BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE. ACTIVE LIGHTING SYSTEMS FOR OPEN AIRCRAFT OPERATIONAL AREAS (AOA) MUST REMAIN READY FOR OPERATION DURING IFR WEATHER CONDITIONS AND FROM DUSK TO DAWN.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST INVENTORY THE LIGHTS, FIXTURES, SIGNS, ETC., WITHIN THE PROJECT LIMITS. THE CONTRACTOR MUST ADVISE THE CONTRACTING OFFICER, IN WRITING, OF THE DAMAGED LIGHT FIXTURES, SIGNS, OR UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
- FOR LIGHTING CIRCUITS REMAINING IN OPERATION, THE CONTRACTOR MUST MEGGAR THE EXISTING LIGHTING CIRCUIT PRIOR TO BEGINNING WORK AND AT THE END OF EACH DAY'S WORK. THIS WORK MUST BE PERFORMED IN THE PRESENCE OF THE CONTRACTING OFFICER'S DESIGNATED REPRESENTATIVE AND LOGGED IN THE DAILY REPORT. IF THERE IS A DROP IN THE MEGGARED CIRCUIT VALUES, THE CONTRACTOR MUST DETERMINE THE LOCATION OF THE PROBLEM AT THE CONTRACTOR EXPENSE. IF THE PROBLEM IS DUE TO THE CONTRACTOR'S WORK, THE APPLICABLE CIRCUITS MUST BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CONTRACTING OFFICER.
- THE CONTRACTOR MUST HAVE A TONE GENERATOR TYPE CABLE TRACER ON SITE TO LOCATE EXISTING CABLES.
- THE CONTRACTOR MAY BE REQUIRED TO CONNECT THE CIRCUITS TO THE EXISTING CIRCUITS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK REQUIRED TO MAKE THE CONNECTIONS TO THE EXISTING CIRCUITS WILL BE CONSIDERED INCIDENTAL TO THE PROJECT (I.E., PUNCHING INTO EXISTING MANHOLES, LIGHT BASES, JUNCTION STRUCTURES FOR CONDUITS).
- GROUND RODS AND OTHER UNDERGROUND GROUNDING CONNECTIONS MUST BE EXOTHERMICALLY WELDED, UNLESS OTHERWISE NOTED. EXOTHERMIC CONNECTIONS MUST BE IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. THE COUNTERPOISE SYSTEM MUST BE CONNECTED WITH THE EXISTING SYSTEM AT CROSSING POINTS.
- EXISTING LIGHTING FIXTURES REMOVED WILL REMAIN THE PROPERTY OF THE GOVERNMENT AND STORED AT THE AIRPORT AT A LOCATION AS ORDERED BY THE CONTRACTING OFFICER UNLESS OTHERWISE NOTED. EXISTING 20A/6.6A L-830 ISOLATION TRANSFORMERS REMOVED MUST BE DISPOSED OF OFF-SITE IN A LAWFUL MANNER.
- AT THE BEGINNING OF THE PROJECT, THE CONTRACTOR MUST PROVIDE THE CONTRACTING OFFICER WITH TWO (2) COPIES OF MANUFACTURERS' EQUIPMENT INSTALLATION INSTRUCTIONS.
- AT THE PROJECT COMPLETION, THE CONTRACTOR MUST PROVIDE A FOUR (4) HOUR MINIMUM TRAINING SESSION FOR AIRPORT MAINTENANCE PERSONNEL. THE SESSION WILL COVER THE INSTALLED EQUIPMENT.
- AT THE PROJECT COMPLETION, THE CONTRACTOR MUST PROVIDE A COMPLETE MAINTENANCE MANUAL BOUND IN A THREE-RING NOTEBOOK. THE MANUAL SHALL CONTAIN THE FOLLOWING AS A MINIMUM:
 - AS-BUILT WIRING SCHEMATICS
 - EQUIPMENT SHOP DRAWINGS SUBMITTALS
 - MANUFACTURERS' EQUIPMENT INSTALLATION INSTRUCTIONS
 - MANUFACTURERS' MAINTENANCE INSTRUCTIONS
 - WARRANTIES
 - SPARE PARTS LISTS
- SPLICES MUST BE MADE ONLY AT OUTLETS, JUNCTION BOXES OR ACCESSIBLE RACEWAY. SPLICES IN MANHOLES AND PULLCANS MUST BE MADE WITH L-823 CONNECTOR KITS, 3M SKOTCHCAST EPOXY RESIN KIT OR APPROVED EQUIVALENT.
- ANTI-SEIZE COMPOUND MUST BE APPLIED TO THE BOLTS FOR PULLCANS, LIGHT BASES & EXTERIOR JUNCTION BOXES.
- UNLESS OTHERWISE NOTED, BACKFILL MATERIAL AND COMPACTION MUST BE AS SPECIFIED IN CONTRACT DOCUMENTS.
- AT EACH LIGHT FIXTURE AND PULLCAN PLAZA, PROVIDE 7' MINIMUM SLACK FOR EACH CABLE SO THAT EACH CONNECTION AND/OR FUTURE CONNECTION TO A CABLE CAN BE MADE OUTSIDE THE STRUCTURE.

FILE NAME: N:\14072\04 CAD\08b-Taxiway 2\1302445-E-701.dwg LAYOUT NAME: E-701 PLOTTED: Tuesday, November 10, 2015 - 12:29pm USER: mm

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DESCRIPTION	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
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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 TAXIWAY 'Z'	
SIGN SCHEDULE	
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095476
SHEET	40 of 41
E-701	
DRAWFORM REVISION: 5 APRIL 2012	

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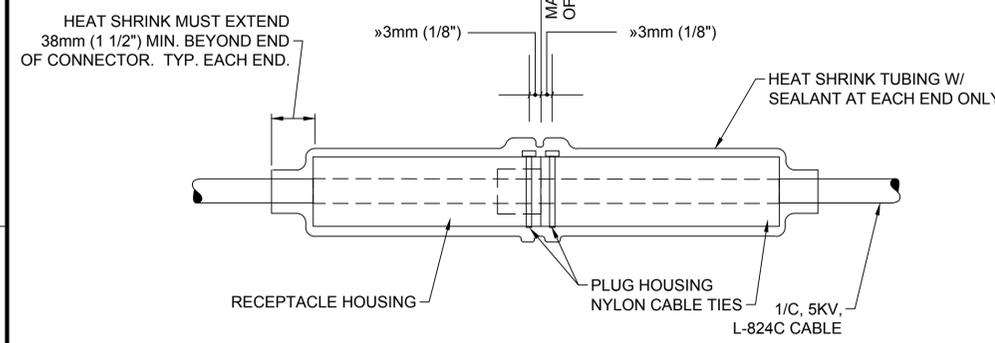
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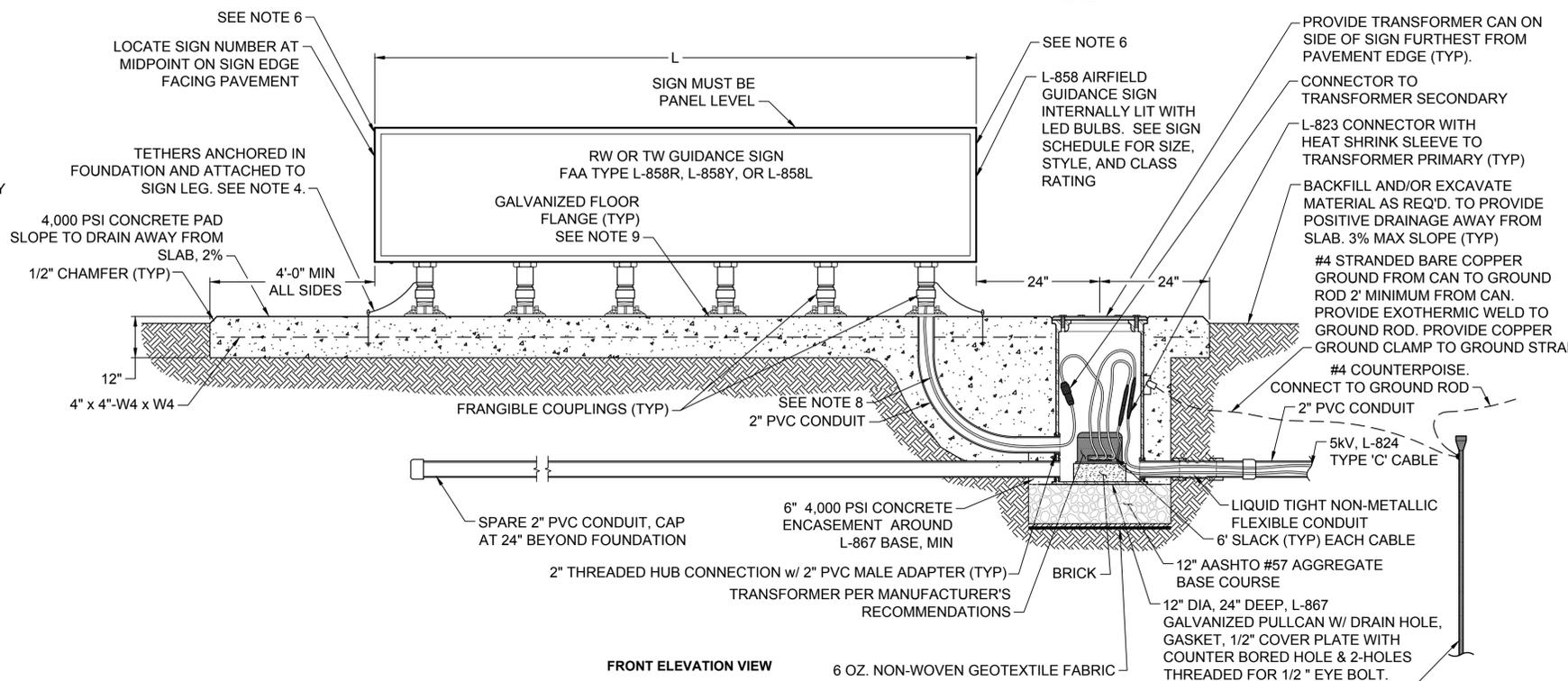
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1 FIELD ATTACHED PLUG-IN SPLICE FAA TYPE L-823
SCALE: NTS

NOTES:

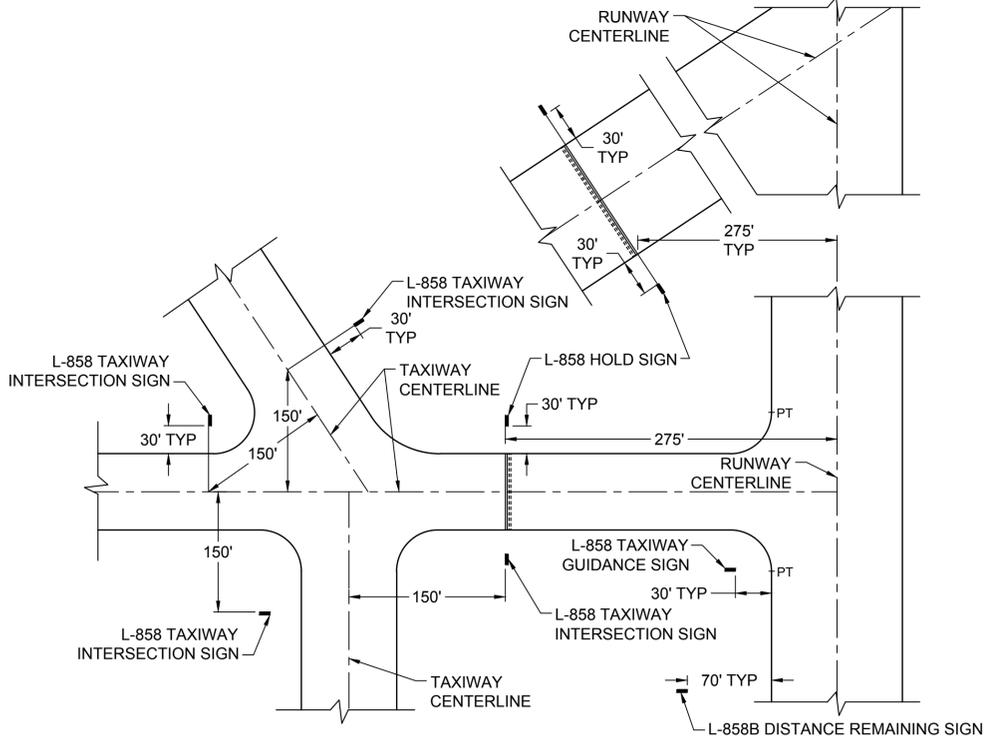
1. INTERIOR PIN AND SOCKETS ARE NOT SHOWN FOR CLARITY.
2. ATTACH EACH CABLE TIE 3mm (1/8") FROM THE MATING FACE OF THE CONNECTOR HOUSING. TIGHTEN CABLE TIE ENOUGH TO HOLD IN PLACE WITHOUT COMPRESSING HOUSING. A COMPLETELY TRIM OFF EXCESS CABLE TIE.
3. THE INSTALLATION OF L-823 AND HEAT SHRINK TUBING MUST BE IN STRICT CONFORMANCE WITH MANUFACTURERS REQUIREMENTS.



2 AIRFIELD GUIDANCE SIGN (L.E.D.) DETAIL
SCALE: NTS

NOTES:

1. PROVIDE A L-823 DISCONNECT PLUG & RECEPTACLE IN THE FRANGIBLE COUPLING OF THE POWER LEG AS REQUIRED.
2. CONDUIT UNDER THE CONCRETE PAD IS INCIDENTAL TO THE COST OF THE AIRFIELD GUIDANCE SIGN.
3. ORIENT THE INTERNAL POWER LUGS OF THE AIRFIELD GUIDANCE SIGN SO THAT THEY WILL BE CLOSEST TO THE LEG THROUGH WHICH THE POWER ENTERS THE SIGN HOUSING.
4. PROVIDE MINIMUM TWO (2) TETHER PER SIGN (AT ENDS).
5. PROVIDE A CONCRETE SIGN PAD LEVEL IN TURF SHOULDERS AND PROVIDE A CONCRETE SIGN PAD AT THE SAME GRADE AS PAVED SHOULDER. IN PAVED SHOULDERS, ADJUST SIGN LEGS TO LEVEL THE SIGN.
6. PROVIDE LIGHT FIXTURE ID TAG FACING PAVEMENT EDGE (SEE DETAIL). USE 4 STAINLESS STEEL SELF TAPPING SCREWS TO SECURE TAG TO SIGN FACE.
7. FASTEN FLOOR FLANGE TO CONCRETE WITH 3/8" DIA. x 1-5/8" LONG MIN. DROP-IN ANCHORS. PROVIDE STAINLESS STEEL BOLTS WITH A STAINLESS STEEL FLAT AND LOCK WASHER. PROVIDE NEVER SEIZE COMPOUND ON THE THREADS OF EACH BOLT.
8. PROVIDE A L-823 EXTENSION CORD (5' (1.5m) MIN.) AND A CABLE CLAMP AT THE JUNCTION BETWEEN THE END OF THE 2" PVC CONDUIT AND THE FLOOR FLANGE.
9. PRIOR TO SECURING THE SIGN TO THE CONCRETE FOUNDATION, APPLY AN APPROVED BITUMINOUS MASTIC MATERIAL TO THE BOTTOM OF EACH FLOOR FLANGE.



3 TYPICAL SIGN LAYOUT DETAIL
SCALE: NTS

NOTE:

1. TAXIWAY TO TAXIWAY INTERSECTION SIGNS MUST BE COLLOCATED PERPENDICULAR TO THE TAXIWAY CENTERLINE AT THE POINT 150 FEET FROM THE INTERSECTING TAXIWAY CENTERLINE, OR AS SHOWN ON THE PLANS.

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FILE NAME: N:\14072\04 CAD\08b-Taxiway 2\1302445-E-702.dwg LAYOUT NAME: E-702 PLOTTED: Tuesday, November 10, 2015 - 12:29pm USER: mm

DATE	6 NOV 15
ISSUED FOR BID	0
DESCRIPTION	
<p>APPROVED</p> <p>FOR COMMANDER NAVFAC</p> <p>ACTIVITY</p> <p>SATISFACTORY TO DATE</p> <p>DES EFC DRW MRM CHK JMM</p> <p>PROJECT MANAGER</p> <p>PT TECH BRANCH HEAD</p> <p>CHIEF ENGINEER (CORE)</p>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIVIL CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS TAXIWAY 'Z' SIGN DETAILS	SCALE: NTS EPROJECT NO: CONSTR. CONTR. NO. NAVFAC DRAWING NO: 15095477 SHEET 41 OF 41 E-702 DRAWFORM REVISION: 5 APRIL 2012